430-434 VAN BRUNT STREET

BLOCK 603, LOT(S) 23 & 24

BROOKLYN, NEW YORK

Remedial Investigation Report

OER VCP Project Number: TBD

OER E-Designation Project Number: 15EHAZ292K

Prepared for:

STREKTE
P.O. Box 21041
Brooklyn, New York 11202
paul@strekte.com

Prepared by:

PT Consultants, Inc.
121 West 27th Street, Suite 1004
New York, New York, 10001
bradsummerville@ptconsultantsinc.com
(917) 338-3086

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REMEDIAL INVESTIGATION REPORT

TABLE OF CONTENTS

FIGURES 1
LIST OF ACRONYMS 2
CERTIFICATION 3
EXECUTIVE SUMMARY 4
REMEDIAL INVESTIGATION REPORT 9
1.0 SITE BACKGROUND 9
1.1 Site Location and Current Usage 9
1.2 Proposed Redevelopment Plan 9
1.3 Description of Surrounding Property 10
2.0 SITE HISTORY 11
2.1 Past Uses and Ownership 11
2.2 Previous Investigations 11
2.3 Site Inspection 11
2.4 Areas of Concern 11
3.0 PROJECT MANAGEMENT 14
3.1 Project Organization 14
3.2 Health and Safety 14
3.3 Materials Management 14
4.0 REMEDIAL INVESTIGATION ACTIVITIES 15
4.1 Geophysical Investigation 15
4.2 Borings and Monitoring Wells 15
4.3 Sample Collection and Chemical Analysis 17
5.0 ENVIRONMENTAL EVALUATION 21
5.1 Geological and Hydrogeological Conditions 21
5.2 Soil Chemistry 21
5.3 Groundwater Chemistry 22
5.4 Soil Vapor Chemistry 22
5.5 Prior Activity 25

5.6 Impediments to Remedial Action 25

FIGURES

Figure 1: Site Location Map

Figure 2: Site Plan

Figure 3: Sample Location Map

Figure 4: Inferred Groundwater Flow Map

TABLES

Table 1: Sample Summary Table

Table 2: Soil Analytical Results - VOCs

Table 3: Soil Analytical Results - SVOCs

Table 4: Soil Analytical Results – Pesticides and PCBs

Table 5: Soil Analytical Results - Metals

Table 6: Groundwater Analytical Results - VOCs

Table 7: Groundwater Analytical Results - SVOCs

Table 8: Groundwater Analytical Results – Pesticides and PCBs

Table 9: Groundwater Analytical Results – Metals

Table 10: Groundwater Analytical Results – Filtered Metals

Table 11: Soil Vapor Analytical Results – TO+15

APPENDICES

Appendix 1: Proposed Building Layouts

Appendix 2: Proposed Building Foundation Plan

Appendix 3: *Phase I Report*

Appendix 4: *Phase II Work Plan*

Appendix 5: Field Engineer Notes from May 7, 2015

Appendix 6: Soil Vapor Sampling Logs

Appendix 7: Laboratory Data Deliverables for Soil and Groundwater Analytical Data

Appendix 8: Laboratory Data Deliverables for Soil Vapor Analytical Data

LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
CAMP	Community Air Monitoring Plan
COC	Contaminant of Concern
CPP	Citizen Participation Plan
CSM	Conceptual Site Model
DER-10	New York State Department of Environmental Conservation Technical Guide 10
FID	Flame Ionization Detector
GPS	Global Positioning System
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
IRM	Interim Remedial Measure
NAPL	Non-aqueous Phase Liquid
NYC VCP	New York City Voluntary Cleanup Program
NYC DOHMH	New York City Department of Health and Mental Hygiene
NYC OER	New York City Office of Environmental Remediation
NYS DOH ELAP	New York State Department of Health Environmental Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyls
PID	Photoionization Detector
QEP	Qualified Environmental Professional
RI	Remedial Investigation
RIR	Remedial Investigation Report
SCO	Soil Cleanup Objective
SVOC	Semi-Volatile Organic Compound
SPEED	Searchable Property Environmental Electronic Database
VOC	Volatile Organic Compound

CERTIFICATION

I, Brad Summerville, P.E., am a Qualified Environmental Professional, as defined in RCNY § 43-1402(ar). I have primary direct responsibility for implementation of the Remedial Investigation for the 430-434 Van Brunt Street, (OER Project Number 15EHAZ292K). I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.

Bradley Summerville 8/21/15

Qualified Environmental Professional Date Signature

EXECUTIVE SUMMARY

The Remedial Investigation Report (RIR) provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy pursuant to RCNY§ 43-1407(f). The remedial investigation (RI) described in this document is consistent with applicable guidance.

Site Location and Current Usage

The Site is located at 430-434 Van Brunt Street in the Red Hook section of Brooklyn, New York and is identified as Block 603, Lots 23 & 24 on the New York City Tax Map. **Figure 1** shows the Site Location. The Site is 5,850-square feet and is bounded by a mixed commercial/residential building to the northeast, Van Brunt Street to the southeast, a mixed commercial/residential building to the southwest, and a mixed commercial/residential building to the northwest. A map of the site boundary is shown in **Figure 2**. Currently, the Site is used for the storage of construction equipment and trailers. It is currently undeveloped.

Lot 23 (430 Van Brunt Street) will remain as a single lot sized at 25 feet by 90 feet. Lot 24 (432 Van Brunt Street) will be subdivided into two (2) lots sized at 20 feet by 90 feet each. The CEQR number assigned to the project is 00DME013K. NYC Department of Buildings Job Number(s) 321049913, 321049860 & 321049879 has been assigned to the project.

Summary of Proposed Redevelopment Plan

The proposed use of the Site will consist of three (3), five-story mixed use buildings. The buildings will contain a garage and commercial space at the grade level and a single residential unit on the 1st, 2nd, 3rd, and 4th stories. No subgrade level is proposed. The building foundation will be on pile caps limiting planned soil disturbance. The grade level will be slab on grade for the interior garage and commercial space with a 10 foot (ft) rear yard area that is covered with asphalt. The building at 430 Van Brunt Street will be approximately 5,090 square feet (sq ft) in gross area with a building footprint of approximately 1,890 sq ft. The 432 and 434 Van Brunt Street buildings will have a gross area of 3,380 sq ft and a building footprint of 1,180 sq ft each. The proposed building layouts are included in **Appendix 1**.

Layout of the proposed site development is presented in **Figure 2**. The current zoning designation for the property is mixed use and residential (M1-1/R5).

At the writing of this work plan, foundation piles are planned to consist of helical piles or drilled caissons. A foundation plan is included as **Appendix 2**. Maximum length of the piles is expected to be 30 feet. Pile caps are expected to be approximately 2 feet deep. Including proposed foundation walls, grade beams, and slab excavation, approximately 260 cubic yards (yd^3) or 175 tons of soil will be excavated from the property.

Groundwater is expected to be encountered at depths of approximately 8 feet below the ground surface (bgs). Therefore, the majority of the soil excavation will occur above the groundwater table. As the property is currently vacant of permanent structures, no demolition activities are planned.

Summary of Past Uses of Site and Areas of Concern

Review of historic records available for the subject property has indicated that the site was developed for mixed residential and commercial-type operations since as early as 1886 until sometime in the 1960's, when the site was cleared of structures and utilized for contractor storage. Site use has remained relatively unchanged through to current day.

- Historic Utilization/E-Designation (AOC-1): Review of historic records available for the subject property has indicated that the site was developed for mixed residential and commercial-type operations since as early as 1886 until sometime in the 1960's, when the site was cleared of structures and utilized for contractor storage. PT also notes that the subject property was identified within the E Designation program. According to information reviewed, application for development of the property was submitted to the New York City Environmental Quality Review Board and assigned number OODME013K from the application number 020047 ZMK, based on zoning map 16a. An E designation was assigned to the site on January 30, 2002 as E-110 (Red Hook Stores Redevelopment / Rezoning) for Hazmat/Underground Storage Tank(s) Testing Protocol.
- Historic Fill (AOC-2): PT observed two (2) small soil piles and test pit excavations situated along the center of the northern and southern property boundaries, respectively. Various layers of fill were observed throughout the soils piles as well as along the sidewalls of the excavated areas. Based on these observations, it is likely that fill material has been brought onto the subject property.
- Storage Container (AOC-3): A storage container, which is utilized for the housing of building materials, compressed gas cylinders, and one (1) 55-gallon polyethylene drum,

was observed within the northern corner of the subject property. The contents of the drum are unknown and at the time in which the inspection was completed, the drum was noted as having been staged on its side allowing the contents of such to spill onto the wooden floor of the storage container. PT also noted several additional areas of staining along the wooden floor of the storage container.

- Material Staging Areas (AOC-4): Several staging areas consisting of trucks, trailers, miscellaneous building materials, solid waste debris were observed throughout the subject property during the site inspection. PT also observed a total of five (5) 5-gallon pails of mastic and hydraulic fluid situated at various locations throughout the subject property. No visual evidence of a release was noted with the exception of one (1) area of minimally soil, which was located beneath the trucks staged within the northern portion of the property.
- Ruptured Drum (AOC-5): One (1) 55-gallon steel drum was observed within the northern portion of the property. The contents of the drum are unknown. PT noted the structural integrity of the drum appeared to have been compromised, causing it to rupture and discharge its contents onto the ground surface.
- Potential Off-Site Sources of Contamination (AOC-6): Several sites with potential sources of soil and groundwater contamination were identified in close proximity to the subject property. Identification of such sites was anticipated due to the urban setting of the subject area. Migration of contaminants from these sites to the subject property would most likely be via groundwater and/or vapor.

Summary of the Work Performed under the Remedial Investigation

STREKTE performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Conducted a Geophysical Survey of the property to determine the presence or absence of underground anomalies;
3. Installed six (6) soil borings across the entire project Site, and collected twelve (12) soil samples for chemical analysis from the soil borings to evaluate soil quality;

4. Installed three (3) groundwater monitoring wells throughout the Site to establish groundwater flow and collected three (3) groundwater samples for chemical analysis to evaluate groundwater quality;

5. Installed five (5) soil vapor probes around Site and collected five (5) samples for chemical analysis.

Summary of Environmental Findings

1. Elevation of the property is approximately 10 feet above sea level.

2. Depth to groundwater ranges from 8.13 to 8.20 feet at the Site.

3. Groundwater flow is generally from east to west beneath the Site, toward the Red Hook Channel.

4. Depth to bedrock is approximately 150 feet at the Site.

5. The stratigraphy of the site, from the surface down, consists of four (4) feet of historic fill consisting mainly of black gravel underlain by four (4) feet of fine brown sand.

6. Soil/fill samples were compared to NYSDEC Unrestricted Use Soil Cleanup Objectives and Restricted Residential Soil Cleanup Objectives as presented in 6NYCRR Part 375-6.8 and CP51. No PCBs were detected in any of the soil samples. Soil/fill samples collected during the RI showed trace concentrations of one VOC, acetone (maximum of 128 ug/kg) exceeding Unrestricted Use SCOs. Eight SVOCs consisting of the polycyclic aromatic hydrocarbons (PAHs), benz(a)anthracene (maximum of 27,300µg/kg), benzo(a)pyrene (maximum of 21,700 µg/kg), benzo(b)fluoranthene (maximum of 27,300 µg/kg), benzo(k)fluoranthene (maximum of 8,330 ug/kg), chrysene (maximum of 25,100 µg/kg), dibenzo(a,h)anthrecene (maximum of 3,680), indeno(1,2,3-cd)pyrene (10,500µg/kg), and 2-Methylnapthalene (maximum of 1,230 ug/kg) were found in four of the six shallow samples, all exceeding Restricted Residential SCOs. Five pesticides, alpha-chlordane (131 ug/kg), dieldrin (13.5 ug/kg), 4,4-DDD (maximum of 343 ug/kg), 4,4-DDE (maximum of 693 ug/kg), and 4,4-DDT (maximum of 3,030 ug/kg) were detected above Unrestricted Use SCOs in five shallow samples and one deep sample. 4,4-DDT also exceeded Restricted Residential SCOs in one shallow sample. Six metals including barium (1,890 mg/kg), copper (maximum of 112 mg/kg), lead (maximum of 3,150 mg/kg), mercury (maximum of 3.0 mg/kg), nickel (maximum of 148 mg/kg), and

zinc (maximum of 960 mg/kg) were detected above Unrestricted Use SCOs in shallow and deep samples. Of these metals, barium, lead, mercury, and nickel also exceeded Restricted Residential SCOs.

7. Groundwater sample results were compared to New York State 6NYCRR Part 703.5 Class GA groundwater quality standards (GQS). Groundwater collected during the investigation showed no VOCs, SVOCs, pesticides, or PCBs above their respective GQS. Four metals, iron (maximum of 6,160 ug/L), manganese (399 ug/L), selenium (10.6 ug/L), and sodium (maximum of 546,000 ug/L) exceeded their respective GQS. The groundwater samples were then filtered and re-analyzed by the laboratory. Three (3) metals, iron (maximum of 5600 ug/L), manganese (322 ug/L), and sodium (maximum of 517,000 ug/L) exceeded their respective GQS. Selenium levels in the filtered samples were below GQS.

8. Soil vapor results collected during the RI were compared to compounds listed in Table 3.1 Air Guidance Values derived by the New York State Department of Health (NYSDOH) located in the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion, dated October 2006. Soil vapor samples collected during the RI showed petroleum related VOCs present at low concentrations. Total concentrations of petroleum-related VOCs (BTEX) ranged from 134.3 $\mu g/m^3$ to 241 $\mu g/m^3$. Samples showed low levels of chlorinated VOCs including 1,1,1-trichloroethane (ranging from 27 $\mu g/m^3$ to 60 $\mu g/m^3$), tetrachloroethene (PCE) (ranging from 2.3 $\mu g/m^3$ to 6.8 $\mu g/m^3$), and trichloroethylene (TCE) (ranging from 0.81 $\mu g/m^3$ to 7.0 $\mu g/m^3$). Concentrations for TCE were above the monitoring range established within the State DOH soil vapor guidance matrix. Carbon tetrachloride and other compounds not included on the analytical summary tables were not detected in the soil vapor samples. Complete analytical results can be found in the laboratory analysis report.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

STREKTE has enrolled in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a 5,850-square foot site located at 430-434 Van Brunt Street in the Red Hook section of Brooklyn, New York. Mixed commercial residential use is proposed for the property. The RI work was performed between on May 7, 2015. This RIR summarizes the nature and extent of contamination and provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the property pursuant to RCNY§ 43-1407(f).

1.1 Site Location and Current Usage

The Site is located at 430-434 Van Brunt Street in the Red Hook section in Brooklyn, New York and is identified as Block 603 and Lots 23 & 24 on the New York City Tax Map. **Figure 1** shows the Site location. The Site is 5,850-square feet and is bounded by a mixed commercial/residential building to the northeast, Van Brunt Street to the southeast, a mixed commercial/residential building to the southwest, and a mixed commercial/residential building to the northwest. A map of the site boundary is shown in **Figure 2**. Currently, the Site is used for the storage of construction equipment and trailers. It is currently undeveloped.

Lot 23 (430 Van Brunt Street) will remain as a single lot sized at 25 feet by 90 feet. Lot 24 (432 Van Brunt Street) will be subdivided into two (2) lots sized at 20 feet by 90 feet each. The CEQR number assigned to the project is 00DME013K. Department of Buildings Job Number 3846916 has been assigned to the project.

1.2 Proposed Redevelopment Plan

The proposed use of the Site will consist of three (3), five-story mixed use buildings. The buildings will contain a garage and commercial space at the grade level and a single residential unit on the 1st, 2nd, 3rd, and 4th stories. No subgrade level is proposed. The building foundation will be on pile caps limiting planned soil disturbance. The grade level will be slab on grade for the interior garage and commercial space with a 10 foot (ft) rear yard area that is covered with asphalt. The building at 430 Van Brunt Street will be approximately 5,090 square feet (sq ft) in

gross area with a building footprint of approximately 1,890 sq ft. The 432 and 434 Van Brunt Street buildings will have a gross area of 3,380 sq ft and a building footprint of 1,180 sq ft each. The proposed building layouts are included in **Appendix 1**.

Layout of the proposed site development is presented in **Figure 2**. The current zoning designation for the property is mixed use and residential (M1-1/R5).

At the writing of this work plan, foundation piles are planned to consist of helical piles or drilled caissons. A foundation plan is included as **Appendix 2**. Maximum length of the piles is expected to be 30 feet. Pile caps are expected to be approximately 2 feet deep. Including proposed foundation walls, grade beams, and slab excavation, approximately 260 cubic yards (yd^3) or 175 tons of soil will be excavated from the property.

Groundwater is expected to be encountered at depths of approximately 8 feet below the ground surface (bgs). Therefore, the majority of the soil excavation will occur above the groundwater table. As the property is currently vacant of permanent structures, no demolition activities are planned.

1.3 Description of Surrounding Property

PT utilized OER SPEED and NYC DCP ZoLa applications to obtain information regarding surrounding properties. Review of the applications indicated residential use to the north and east of the property. Van Brunt Street borders the property to the south, followed by mixed-use commercial and residential properties. Mixed-use properties border the site on the west.

2.0 SITE HISTORY

2.1 Past Uses and Ownership

Review of historic records available for the subject property has indicated that the site was developed for mixed residential and commercial-type operations since as early as 1886 until sometime in the 1960's, when the site was cleared of structures and utilized for contractor storage. Site use has remained relatively unchanged through to current day.

2.2 Previous Investigations

The following environmental work plans and reports were developed for the Site:

Phase I Environmental Site Assessment, August 2014, prepared by PT Consultants, Inc.

Phase II Work Plan, March 2015, prepared by PT Consultants, Inc.

Geophysical Investigation Report, February 20, 2015, prepared by Delta Geophysics, Inc.

Health and Safety Plan, March 2015, prepared by PT Consultants, Inc.

Digital (PDF) copies of the above referenced environmental work plans and reports are included as **Appendices 3 and 4**.

2.3 Site Inspection

PT was retained to complete the Phase I ESA for the subject property, which included site reconnaissance performed on July 24, 2014. The purpose of the Phase I ESA was to identify potential areas of concern (AOCs) at the property. The Phase I ESA was completed in accordance with ASTM 1527-13. This assessment revealed no evidence of recognized environmental conditions in connection with the subject property except for the following AOCs listed in Section 2.4, below.

2.4 Areas of Concern

The AOCs identified for this site include:

1. Historic Utilization/E-Designation (AOC-1): Review of historic records available for the subject property has indicated that the site was developed for mixed residential and commercial-type operations since as early as 1886 until sometime in the 1960's, when the site was cleared of structures and utilized for contractor storage. PT also notes that the subject property was identified within the E

Designation program. According to information reviewed, application for development of the property was submitted to the New York City Environmental Quality Review Board and assigned number OODME013K from the application number 020047 ZMK, based on zoning map 16a. An E designation was assigned to the site on January 30, 2002 as E-110 (Red Hook Stores Redevelopment / Rezoning) for Hazmat/Underground Storage Tank(s) Testing Protocol. Based on the E Designation and historic operations with the potential for subsurface features associated with site uses to exist, PT recommended a geophysical survey and soil boring investigation be completed to determine if impacts to the subsurface are present.

2. Historic Fill (AOC-2): PT observed two (2) small soil piles and test pit excavations situated along the center of the northern and southern property boundaries, respectively. Various layers of fill were observed throughout the soils piles as well as along the sidewalls of the excavated areas. Based on these observations, it is likely that fill material has been brought onto the subject property. PT recommended that historic fill screening should be completed on any on-site soil which may be disturbed or transported off-site for re-use. PT further recommended that a Health and Safety Plan be implemented to minimize workers' contact with contaminated soil if such is found to exist on-site.
3. Storage Container (AOC-3): A storage container, which is utilized for the housing of building materials, compressed gas cylinders, and one (1) 55-gallon polyethylene drum, was observed within the northern corner of the subject property. The contents of the drum are unknown and at the time in which the inspection was completed, the drum was noted as having been staged on its side allowing the contents of such to spill onto the wooden floor of the storage container. PT also noted several additional areas of staining along the wooden floor of the storage container. PT recommended an additional investigation of the shipping container in order to assess the potential for hazardous substances to have been discharged through the wooden floor and onto the ground surface. PT also recommends that proper spill prevention and storage techniques are employed.
4. Material Staging Areas (AOC-4): Several staging areas consisting of trucks, trailers, miscellaneous building materials, solid waste debris were observed

throughout the subject property during the site inspection. PT also observed a total of five (5) 5-gallon pails of mastic and hydraulic fluid situated at various locations throughout the subject property. No visual evidence of a release was noted with the exception of one (1) area of minimally soil, which was located beneath the trucks staged within the northern portion of the property. PT recommends that the surface stained area be cleaned and properly managed. In the event that the surface staining should be found to extend through to the subsurface, an additional investigation, removal and sampling should be conducted.

5. Ruptured Drum (AOC-5): One (1) 55-gallon steel drum was observed within the northern portion of the property. The contents of the drum are unknown. PT noted the structural integrity of the drum appeared to have been compromised, causing it to rupture and discharge its contents onto the ground surface. PT recommends an additional investigation of the drum discharge area be completed to determine if any spill related to such has impacted the subsurface. PT also recommends that proper spill prevention and storage techniques are employed.
6. Potential Off-Site Sources of Contamination (AOC-6): Several sites with potential sources of soil and groundwater contamination were identified in close proximity to the subject property. Identification of such sites was anticipated due to the urban setting of the subject area. Migration of contaminants from these sites to the subject property would most likely be via groundwater and/or vapor. Based on the E-Designation of the subject property and several immediate surrounding areas, PT has recommended that a soil and groundwater investigation should be completed on the site. The investigation will also assess possible indoor air quality impacts from vapor intrusion; including the potential for impacted groundwater, if identified, to volatilize into the proposed building.

Phase 1 Report is presented in **Appendix 3**. A photolog showing areas of concern is included within the Phase 1 report.

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Brad Summerville, P.E.

3.2 Health and Safety

All work described in this RIR was performed in full compliance with applicable laws and regulations, including Site and OSHA worker safety requirements and HAZWOPER requirements.

3.3 Materials Management

All material encountered during the RI was managed in accordance with applicable laws and regulations.

4.0 REMEDIAL INVESTIGATION ACTIVITIES

STREKTE performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Conducted a Geophysical Survey of the property to determine the presence or absence of underground anomalies;
3. Installed six (6) soil borings across the entire project Site, and collected twelve (12) soil samples for chemical analysis from the soil borings to evaluate soil quality;
4. Installed three (3) groundwater monitoring wells throughout the Site to establish groundwater flow and collected three (3) groundwater samples for chemical analysis to evaluate groundwater quality;
5. Installed five (5) soil vapor probes around the Site and collected five (5) samples for chemical analysis.

4.1 Geophysical Investigation

The Geophysical Survey Report was prepared by Delta Geophysics, Inc. for PT Consultants, Inc., dated February 20, 2015.

A geophysical survey was performed at the site using ground penetrating radar (GPR) in February 2015. During the GPR survey various equipment and other obstructions were scattered throughout the subject property. Approximately 50% of the Site was accessible with the GPR. Within the boundaries of the open areas no underground anomalies were detected. A copy of the survey is included as part of the Phase II Work Plan, **Appendix 4**.

4.2 Borings and Monitoring Wells

Drilling and Soil Logging

On May 7, 2015, PT mobilized to the site to conduct soil, groundwater, and soil vapor sampling. Using a Geoprobe-type, direct-push device, the borings were advanced up to 12 feet below the ground surface (bgs). A total of six (6) soil borings were installed at the property.

Soils were reviewed visually in the field for indications of environmental impact, such as oily sheens or staining. These visual observations were supplemented with a photo-ionization detector (PID) screening of the soils for the presence of volatile organic vapors. Soil observations and soil sample depths were recorded on the boring logs provided in **Appendix 5**.

Generally, the soils consisted of historic fill (e.g., silts with brick fragments) to depths of approximately 4.0 feet below ground surface (bgs) underlain by a mixture of sands with varying amounts of silt and gravel. Groundwater was encountered at a depth of approximately 8.0 feet bgs.

Petroleum-like odors were not observed in the soil borings. No oily sheens, staining, or free-phase petroleum was observed. Elevated PID readings were observed in soil borings SB-1 and SB-4. PID readings were not reported above general background levels while screening soil from the remaining soil borings.

Boring logs prepared by a field engineer are attached in **Appendix 5**. A map showing the location of soil borings and temporary wells is shown in **Figure 3**.

Groundwater Monitoring Well Construction

Soil borings SB-1, SB-4, and SB-5 were converted to temporary monitoring well points. Temporary wells were constructed to approximately 12 feet bgs with 5 feet of screen using 1 inch diameter PVC casing. Groundwater was encountered between 8.13 and 8.20 feet bgs. Groundwater samples were collected via peristaltic pump. All temporary wells were purged of three well volumes before sampling was completed.

Sample TW-1 was collected at 9.5 feet bgs. Samples TW-2 and TW-3 were collected at 10.5 feet bgs.

Temporary well locations are shown in **Figure 3**.

Survey

Boring locations were located on-site by collecting horizontal distance measurements from known landmarks such as building corners. The boring locations were then recorded on a scaled map, included in this report as **Figure 3**.

Water Level Measurement

Water level was measured via a Solinst Water Level Meter, Model 101. Water level data is included in **Table 1**.

4.3 Sample Collection and Chemical Analysis

Sampling performed as part of the field investigation was conducted for all Areas of Concern and also considered other means for bias of sampling based on professional judgment, area history, discolored soil, stressed vegetation, drainage patterns, field instrument measurements, odor, or other field indicators. All media including soil, groundwater and soil vapor have been sampled and evaluated in the RIR. Discrete (grab) samples have been used for final delineation of the nature and extent of contamination and to determine the impact of contaminants on public health and the environment. The sampling performed and presented in this RIR provides sufficient basis for evaluation of remedial action alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

Soil Sampling

Six (6) soil borings were advanced up to 12 feet bgs using a Geoprobe-type, direct-push device and 4-foot long single-use acetate sleeves. Two samples were collected from each boring using disposable nitrile gloves, one from the 0 to 2 foot bgs range and one from the 6 to 8 foot bgs range, for a total of twelve (12) soil samples collected for chemical analysis during this RI. In addition, one (1) duplicate sample and one (1) field blank were collected for chemical analysis during this RI. A trip blank sample was collected but broke prior to analysis. The samples were placed in laboratory prepared containers and transported at wet ice temperatures, under appropriate chain of custody, to the laboratory for analysis. No field conformance issues were identified which would invalidate the data. A review of the laboratory non-conformance summaries did not reveal anything which would invalidate the sampling data. Duplicate sample results were similar to original sample results. Field Blank results were reported below detection limits. Data on soil sample collection for chemical analyses, including dates of collection and sample depths, is reported in **Tables 1 through 5**. **Figure 3** shows the location of samples collected in this investigation. Laboratories and analytical methods are shown below. The full Laboratory Analytical Report is included in **Appendix 7**.

Groundwater Sampling

Three (3) soil borings were converted to temporary well points. Groundwater samples were collected from 1-inch diameter PVC casing with 5 feet of screen via a Peristaltic pump. Total well depths ranged from 10.9 to 12.35 feet bgs, and samples were collected from between 9.5 and 10.5 feet bgs using disposable nitrile gloves.

Three (3) groundwater samples, one (1) duplicate, and one (1) field blank were collected for chemical analysis during this RI. A trip blank sample was collected but broke prior to analysis. The samples were placed in laboratory prepared containers and transported at wet ice temperatures, under appropriate chain of custody, to the laboratory for analysis. No field conformance issues were identified which would invalidate the data. A review of the laboratory non-conformance summaries did not reveal anything which would invalidate the sampling data. Duplicate samples were reported within 10% of the original sample results. Field Blank results were reported below detection limits. Groundwater sample collection data is reported in **Table 1**. Groundwater sample analytical results are reported in **Tables 6 through 9**. Sampling logs with information on purging and sampling of groundwater temporary wells is included in **Appendix 5**. **Figure 3** shows the location of groundwater sampling. Laboratories and analytical methods are shown below. The full Laboratory Analytical Report is included in **Appendix 7**.

Soil Vapor Sampling

Five (5) soil vapor sample points were installed by a Geoprobe-type device. A two (2) inch diameter hole was drilled to five (5) feet bgs. 1-inch diameter PVC casing was installed in the shaft, and tubing was run from 5 feet bgs to the surface. The vapor sample shaft was then sealed with a bentonite plug. Before sampling, a shroud comprised of a plastic container was installed over the vapor sample shaft and sealed with modeling clay to create an airtight chamber. The shroud was filled with helium prior to sampling. Gases were extracted from the sample shaft to create a vacuum using a handheld suction pump. The sample tube was then tested for helium using a MGD-2002 Helium Detector. Samples were not collected until no helium infiltrated the sample tube during the creation of the vacuum. Samples were collected at a rate of approximately 0.2 liters per minute over a two-hour time period. The samples were transported under appropriate chain of custody to the laboratory for analysis. No field conformance issues were identified which would invalidate the data. A review of the laboratory non-conformance summaries did not reveal anything which would invalidate the sampling data.

Five (5) soil vapor probes were installed and five (5) soil vapor samples were collected for chemical analysis during this RI. Soil vapor sampling locations are shown in **Figure 3**. Soil vapor sample collection data is reported in **Table 11**. Soil vapor sampling logs are included in **Appendix 6**. Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006.* The full Laboratory Analytical Report is included in **Appendix 8**.

Chemical Analysis

Chemical analytical work presented in this RIR has been performed in the following manner:

Factor	**Description**
Quality Assurance Officer	The chemical analytical quality assurance is directed by Brad Summerville, P.E.
Chemical Analytical Laboratory	Chemical analytical laboratory used in the RI is NYS ELAP certified and were Accutest Laboratories of Dayton, New Jersey.
Chemical Analytical Methods	Soil analytical methods: • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); Groundwater analytical methods: • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000);

	• PCBs by EPA Method 8082A (rev. 2000); Soil vapor analytical methods: • VOCs by TO-15 VOC parameters.

Results of Chemical Analyses

Laboratory data for soil, groundwater and soil vapor are summarized in **Tables 2 through 10**. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in **Appendices 7 and 8**.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

According to the US Geological Survey, Brooklyn is underlain by glacial and alluvial deposits. Based on the US Department of Agriculture Soil Survey Classification and Nomenclature System, this soil would be referred to as Urban Land, due to the history of urbanization and development in the vicinity of the subject property.

Stratigraphy

Based on soil boring logs completed by the field engineer, soils at the site are comprised of four (4) feet of historic fill, mainly black gravel, underlain by four (4) feet of fine brown sand.

Hydrogeology

A table of water level data for all temporary wells is included in **Table 1**. The average depth to groundwater is 8.18 feet and the range in depth is from 8.13 to 8.2 feet bgs. A map of groundwater level elevations with groundwater contours and inferred flow lines is shown in **Figure 4**. Groundwater flow is from east to west.

5.2 Soil Chemistry

Soil/fill samples were compared to NYSDEC Unrestricted Use Soil Cleanup Objectives and Restricted Residential Soil Cleanup Objectives as presented in 6NYCRR Part 375-6.8 and CP51. No PCBs were detected in any of the soil samples. Soil/fill samples collected during the RI showed trace concentrations of one VOC, acetone (maximum of 128 ug/kg) exceeding Unrestricted Use SCOs. Eight SVOCs consisting of the polycyclic aromatic hydrocarbons (PAHs), benz(a)anthracene (maximum of 27,300µg/kg), benzo(a)pyrene (maximum of 21,700 µg/kg), benzo(b)fluoranthene (maximum of 27,300 µg/kg), benzo(k)fluoranthene (maximum of 8,330 ug/kg), chrysene (maximum of 25,100 µg/kg), dibenzo(a,h)anthrecene (maximum of 3,680), indeno(1,2,3-cd)pyrene (10,500µg/kg), and 2-Methylnapthalene (maximum of 1,230 ug/kg) were found in four of the six shallow samples, all exceeding Restricted Residential SCOs. Five pesticides, alpha-chlordane (131 ug/kg), dieldrin (13.5 ug/kg), 4,4-DDD (maximum of 343 ug/kg), 4,4-DDE (maximum of 693 ug/kg), and 4,4-DDT (maximum of 3,030 ug/kg) were detected above Unrestricted Use SCOs in five shallow samples and one deep sample. 4,4-DDT also exceeded Restricted Residential SCOs in one shallow sample. Six metals including barium (1,890 mg/kg), copper (maximum of 112 mg/kg), lead (maximum of 3,150 mg/kg), mercury (maximum of 3.0 mg/kg), nickel (maximum of 148 mg/kg), and zinc (maximum of 960 mg/kg)

were detected above Unrestricted Use SCOs in shallow and deep samples. Of these metals, barium, lead, mercury, and nickel also exceeded Restricted Residential SCOs. The property is unimproved and has been used as a construction materials storage site since the 1960s. It is likely that the historic fill, not activities performed on-site, is the source of these contaminants. No PCBs were detected in any soil samples. Shallow metal and pesticide contamination is present across the width and breadth of the site, which is consistent with the presence of historic fill. Semi-volatiles are present across the southwesterly portion of the site.

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. A summary table of data for chemical analyses performed on soil samples is included in **Table 1**. Analytical results are included in **Tables 2 through 5**.

5.3 Groundwater Chemistry

Groundwater sample results were compared to New York State 6NYCRR Part 703.5 Class GA groundwater quality standards (GQS). Groundwater collected during the investigation showed no VOCs, SVOCs, pesticides, or PCBs above their respective GQS. Four metals, iron (maximum of 6,160 ug/L), manganese (399 ug/L), selenium (10.6 ug/L), and sodium (maximum of 546,000 ug/L) exceeded their respective GQS. The groundwater samples were then filtered and re-analyzed by the laboratory. Three (3) metals, iron (maximum of 5600 ug/L), manganese (322 ug/L), and sodium (maximum of 517,000 ug/L) exceeded their respective GQS. Selenium levels dropped below GQS. Samples were collected following the purging of three well volumes.

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. A summary table of data for chemical analyses performed on groundwater samples is included in **Table 1**. Analytical results are included in **Tables 6 through 9**.

5.4 Soil Vapor Chemistry

Soil vapor results collected during the RI were compared to values published in Soil Vapor/Indoor Air Matrix 1 & 2 of the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion, dated October 2006 and prepared by the New York State Department of Health (NYSDOH). Compounds not identified in Matrix 1 or 2 were compared to the 25th to 75th percentile range identified on Table C1 of Appendix C from the October 2006 guidance document.

Soil vapor samples collected during the RI showed petroleum related VOCs present at concentrations. No concentrations were reported above the NYSDOH Guidance concentrations for methylene chloride, carbon tetrachloride, tetrachloroethene (PCE), 1,1,1-trichloroethane, and trichloroethene (TCE). Acetone was reported at concentrations ranging from 420 to 2,310 μg/m^3 which is above the 3.4 to 14 μg/m^3 NYSDOH comparison concentrations. Benzene was reported at concentrations ranging from 4.5 to 13 μg/m^3 which is above the 0.6 to 2.2 μg/m^3 NYSDOH comparison concentration. Chloroethane was reported at concentrations of 1.1 μg/m^3 in soil vapor sample SV-1 and 12 μg/m^3 in soil vapor sample SV-5 which are above the NYSDOH comparison concentration of less than 0.25 μg/m^3. Chloroform was reported at concentrations ranging from 1.9 to 65.4 μg/m^3 which is above the less than 0.25 μg/m^3 NYSDOH comparison concentration. Cyclohexane was reported at concentrations ranging from 2.0 to 132 μg/m^3 which is above the 0.25 to 0.4 μg/m^3 NYSDOH comparison concentration. 1-1-Dichloroethane was only reported above the laboratory detection limit in soil vapor sample SV-1 (20 μg/m^3) which is above the less than 0.25 μg/m^3 NYSDOH comparison concentration. 1,2-Dichloropropane was reported at concentrations of 2.3 μg/m^3 in soil vapor sample SV-2 and 5.5 μg/m^3 in soil vapor sample SV-5 which are above the NYSDOH comparison concentration of less than 0.25 μg/m^3. Dichlorodifluoromethane was reported at above the NYSDOH comparison concentrations of 0.25 to 4.2 μg/m^3 in soil vapor samples SV-1 (6.4 μg/m^3), SV-2 (7.9 μg/m^3), SV-4(34 μg/m^3), and SV-5 (6.4 μg/m^3). Cis-1,2-dichloroethylene was only reported above the laboratory detection limit in soil vapor sample SV-1 (8.3 μg/m^3) which is above the less than 0.25 μg/m^3 NYSDOH comparison concentration. Ethanol was reported at above the NYSDOH comparison concentration of 0.25 to 16 μg/m^3 in soil vapor samples SV-4 (33.5 μg/m^3) and SV-5 (27.3 μg/m^3). Ethylbenzene was reported at above the NYSDOH comparison concentrations of 0.25 to 0.5 μg/m^3 in soil vapor samples SV-1 (14 μg/m^3), SV-2 (13 μg/m^3), SV-3 (20 μg/m^3), SV-4(15 μg/m^3), and SV-5 (12 μg/m^3). Freon 114 was only reported above the laboratory detection limit in soil vapor sample SV-4 (3.5 μg/m^3) which is above the less than 0.25 μg/m^3 NYSDOH comparison concentration. Heptane was reported at above the NYSDOH comparison concentrations of 0.25 to 1.9 μg/m^3 in soil vapor samples SV-1 (23 μg/m^3), SV-2 (8.2 μg/m^3), SV-3 (10 μg/m^3), SV-4(7.8 μg/m^3), and SV-5 (309 μg/m^3). Hexane was reported at above the NYSDOH comparison concentrations of 0.25 to 1.0 μg/m^3 in soil vapor samples SV-1 (23 μg/m^3), SV-2 (8.2 μg/m^3), SV-3 (10 μg/m^3), SV-4(7.8 μg/m^3), and SV-5 (309 μg/m^3). Methyl ethyl ketone was reported at above the NYSDOH comparison concentrations of 0.8 to 2.6 μg/m^3

in soil vapor samples SV-1 (13 μg/m^3), SV-2 (11 μg/m^3), SV-3 (31.9 μg/m^3), SV-4(42.5 μg/m^3), and SV-5 (25 μg/m^3). Methyl isobutyl ketone was only reported above the laboratory detection limit in soil vapor sample SV-2 (2.8 μg/m^3) which is above the less than 0.25 μg/m^3 NYSDOH comparison concentration. Styrene was reported at above the NYSDOH comparison concentration of less than 0.25 μg/m^3 in soil vapor samples SV-1 (6.8 μg/m^3), SV-2 (16 μg/m^3), SV-3 (22 μg/m^3), SV-4 (15 μg/m^3), and SV-5 (10 μg/m^3). 1,2,4-Trimethylbenzene was reported at above the NYSDOH comparison concentrations of 0.25 to 0.8 μg/m^3 in soil vapor samples SV-1 (9.8 μg/m^3), SV-2 (49 μg/m^3), SV-3 (80.1 μg/m^3), SV-4 (52.1 μg/m^3), and SV-5 (31 μg/m^3). 1,3,5-Trimethylbenzene was reported at above the NYSDOH comparison concentrations of 0.25 to 0.3 μg/m^3 in soil vapor samples SV-1 (4.7 μg/m^3), SV-2 (12 μg/m^3), SV-3 (21 μg/m^3), SV-4 (13 μg/m^3), and SV-5 (7.9 μg/m^3). Tetrahdrofuran was only reported above the laboratory detection limit in soil vapor sample SV-3 (17 μg/m^3) which is above the less than 0.25 μg/m^3 NYSDOH comparison concentration. Toulene was reported at above the NYSDOH comparison concentrations of 0.6 to 2.4 μg/m^3 in soil vapor samples SV-1 (139 μg/m^3), SV-2 (41.8 μg/m^3), SV-3 (50.5 μg/m^3), SV-4 (38.4 μg/m^3), and SV-5 (35 μg/m^3). Trichlorofluoromethane was only reported above the laboratory detection limit in soil vapor sample SV-3 (17 μg/m^3) which is above the 0.25 to 2.2 μg/m^3 NYSDOH comparison concentrations. Vinyl chloride was only reported above the laboratory detection limit in soil vapor sample SV-1 (2.1 μg/m^3) which is above the less than 0.25 μg/m^3 NYSDOH comparison concentration. M, p-Xylene was reported at above the NYSDOH comparison concentrations of 0.25 to 0.5 μg/m^3 in soil vapor samples SV-1 (59.5 μg/m^3), SV-2 (65.2 μg/m^3), SV-3 (99.5 μg/m^3), SV-4 (71.2 μg/m^3), and SV-5 (50 μg/m^3). O-Xylene was reported at above the NYSDOH comparison concentrations of 0.25 to 0.6 μg/m^3 in soil vapor samples SV-1 (22 μg/m^3), SV-2 (29 μg/m^3), SV-3 (46 μg/m^3), SV-4 (33 μg/m^3), and SV-5 (24 μg/m^3). Bromomethane, chlorobenzene, 1,1-dichloroethylene, 1,2-dibromoethane, 1,2-dichloroethane, cis-1,3-dichloropropene, m-dichlorobenzene, o-dichlorobenzene, trans-1,3-dichloropropene, hexachlorobutadiene, methylmethacrylate, 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, and 1,2,4-trichlorobenzene were reported below laboratory detection limits but above their respective NYSDOH comparison concentrations.

Data collected during the RI is sufficient to delineate the distribution of contaminants in soil vapor at the Site. A summary table of data for chemical analyses performed on soil vapor samples is included in **Table 1**. Analytical results are included in **Table 11**.

5.5 Prior Activity

Based on an evaluation of the data and information from the RIR, disposal of significant amounts of hazardous waste is not suspected at this site.

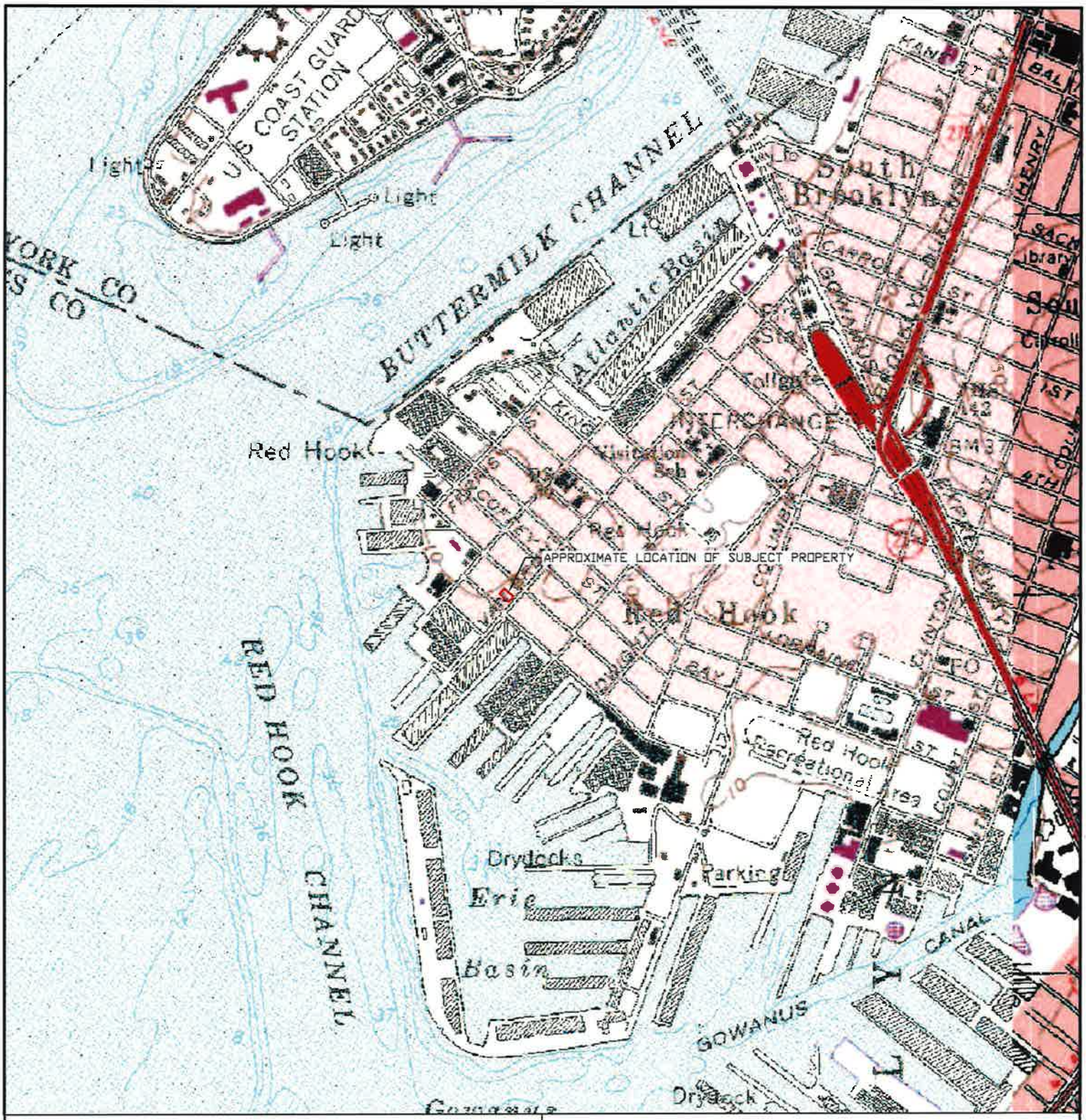
5.6 Impediments to Remedial Action

There are no known impediments to remedial action at this property.

FIGURES

FIGURE 1

SITE LOCATION MAP



430-434 VAN BRUNT STREET
BROOKLYN, NEW YORK 11231
BLOCK 603, LOTS 23 & 24

OER PROJECT NO: 15EHAZ292K
CEQR NO: 00DME013K

N

FIGURE 1
SITE LOCATION MAP

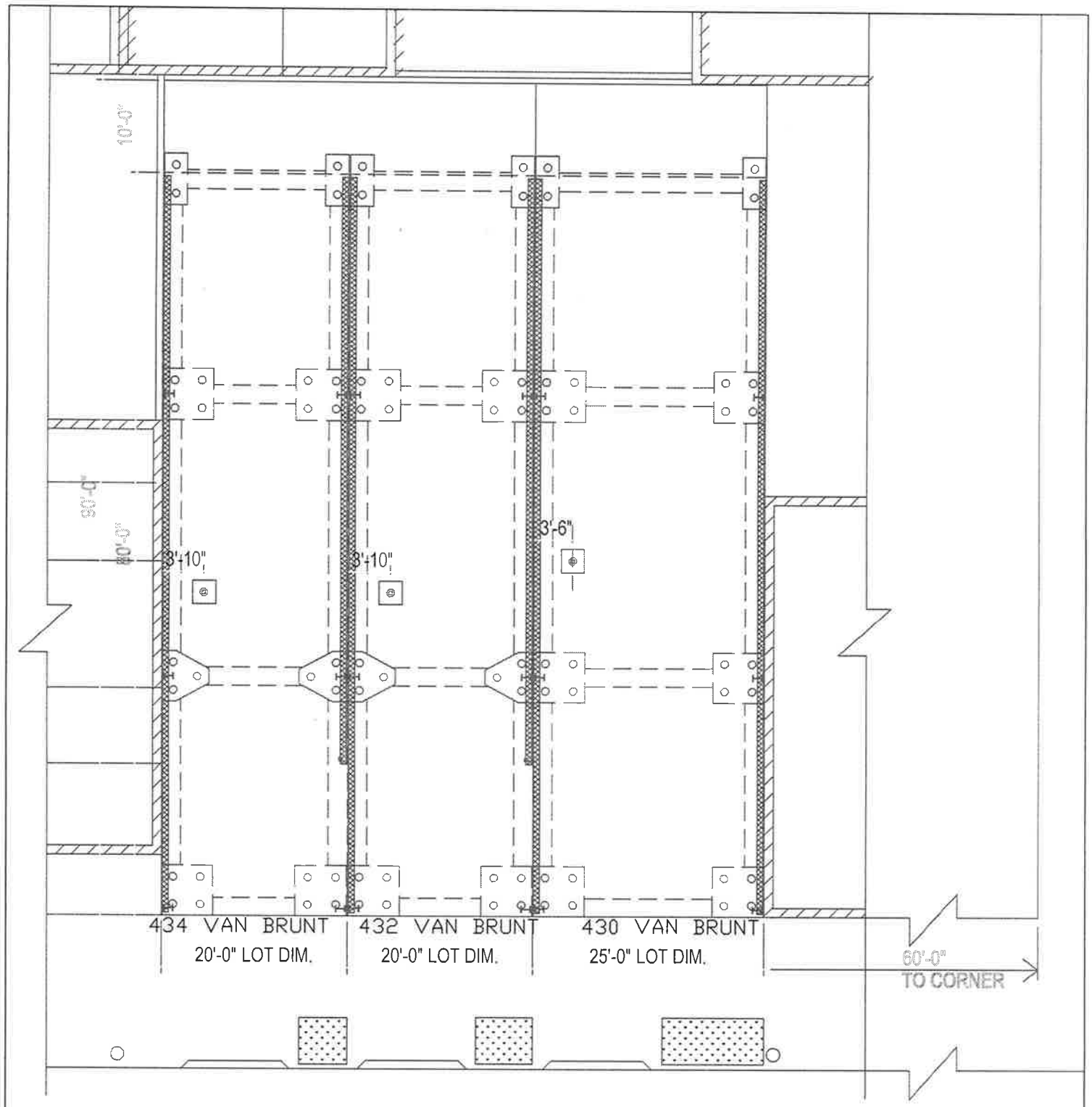
PREPARED FOR:
STREKTE
578 DEGRAW STREET
BROOKLYN, NEW YORK

PREPARED BY:
PT CONSULTANTS, INC.
629 CREEK ROAD
BELLMAWR, NEW JERSEY 08031

PT PROJECT # 12090-03	DRAFTSMAN: DSL
DATE: JUNE 2, 2015	SCALE: 1" = 2000'

FIGURE 2

SITE PLAN



430-434 VAN BRUNT STREET
BROOKLYN, NEW YORK 11231
BLOCK 603, LOTS 23 & 24

DER PROJECT NO: 15EHAZ292K
CEQR NO: 00DME013K

N

FIGURE 2
SITE PLAN

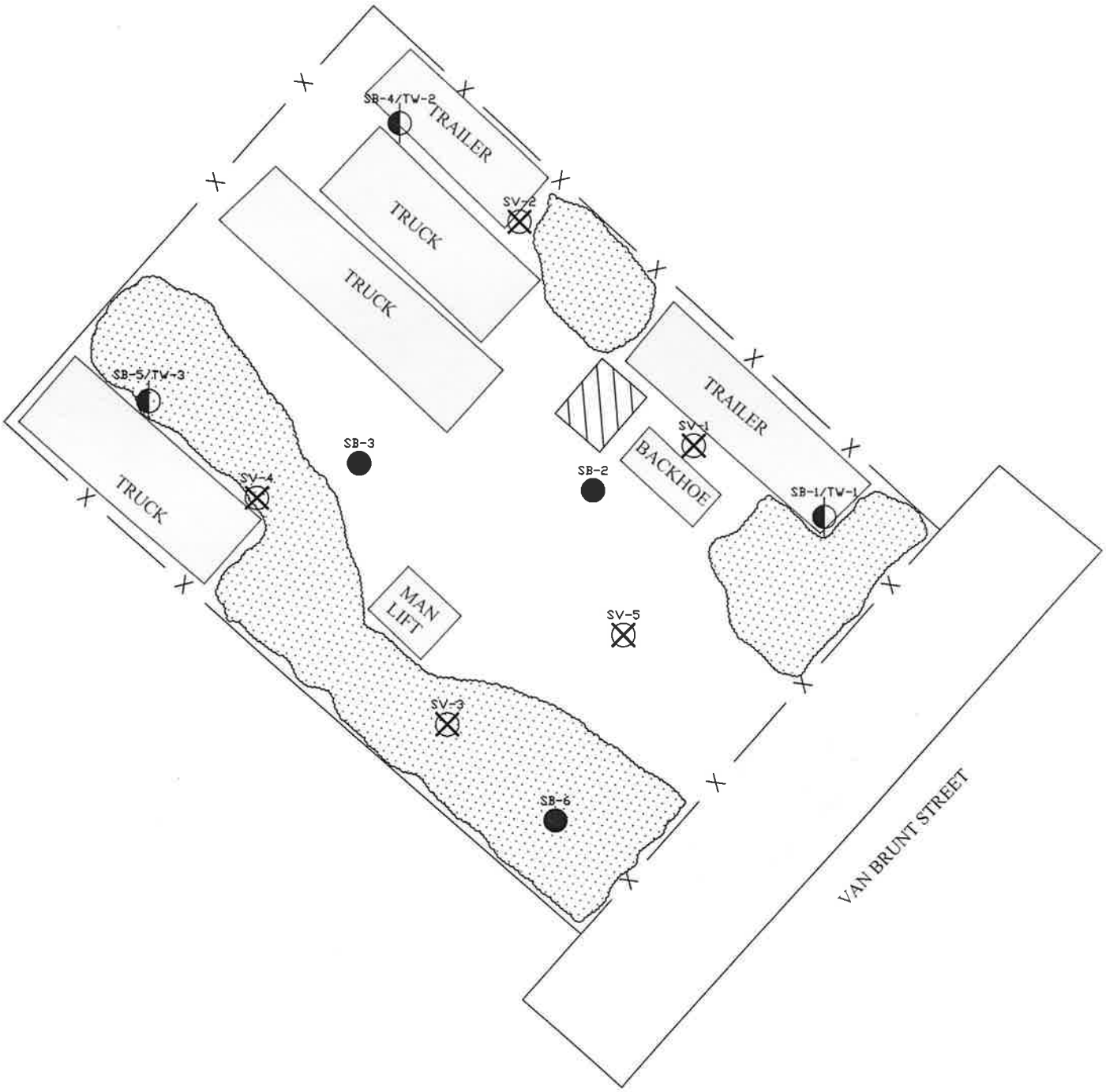
PREPARED FOR:
STREKTE
578 DEGRAW STREET
BROOKLYN, NEW YORK 11202

PREPARED BY:
PT CONSULTANTS, INC.
629 CREEK ROAD
BELLMAWR, NEW JERSEY 08031

PT PROJECT # 12090-03	DRAWN BY: DSL	CHECKED BY: BJS
DATE: MARCH 16, 2015	SIZE: LETTER	SCALE: AS SHOWN

FIGURE 3

SAMPLE LOCATION MAP



LEGEND:	CONSTRUCTION EQUIPMENT	SIDEWALK	DEBRIS	STEEL PLATE	SOIL SAMPLE	SOIL & GW SAMPLE	SOIL VAPOR SAMPLE

430-434 VAN BRUNT STREET
BROOKLYN, NEW YORK 11231
BLOCK 603, LOTS 23 & 24

DER PROJECT NO: 15EHAZ292K
CEQR NO: 00DME013K

N

FIGURE 3
SAMPLE LOCATION MAP

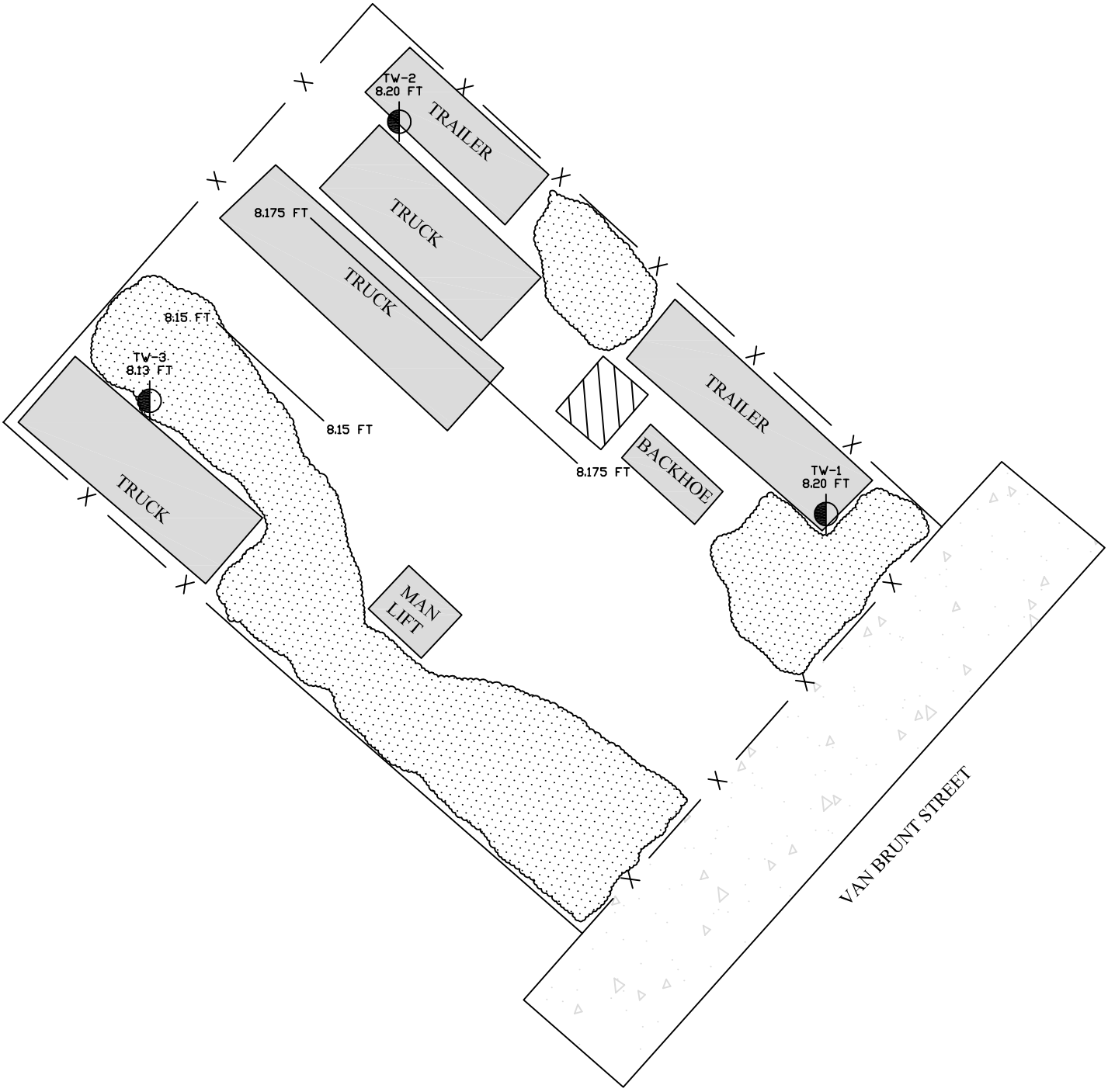
PREPARED FOR:
STREKTE
578 DEGRAW STREET
BROOKLYN, NEW YORK 11202

PREPARED BY:
PT CONSULTANTS, INC.
629 CREEK ROAD
BELLMAWR, NEW JERSEY 08031

PT PROJECT # 12090-03	DRAWN BY: DSL	CHECKED BY: BJS
DATE: JUNE 2, 2015	SIZE: LETTER	SCALE: 1" = 15'

FIGURE 4

INFERRED GROUNDWATER FLOW MAP



LEGEND:	CONSTRUCTION EQUIPMENT	SIDEWALK	DEBRIS	STEEL PLATE	SOIL & GW SAMPLE	APPROX. GROUNDWATER TOPOGRAPHY

430-434 VAN BRUNT STREET
BROOKLYN, NEW YORK 11231
BLOCK 603, LOTS 23 & 24

DER PROJECT NO: 15EHAZ292K
CEQR NO: 00DME013K

N

FIGURE 4
APPROXIMATE GROUNDWATER FLOW MAP

PREPARED FOR:
STREKTE
578 DEGRAW STREET
BROOKLYN, NEW YORK 11202

PREPARED BY:
PT CONSULTANTS, INC.
629 CREEK ROAD
BELLMAWR, NEW JERSEY 08031

PT PROJECT # 12090-03	DRAWN BY: DSL	CHECKED BY: BJS
DATE: JULY 1, 2015	SIZE: LETTER	SCALE: 1" = 15'

TABLES

Table 1: Sample Summary Table
430-434 Van Brunt Street
Brooklyn, New York
PT Project No. 12090-03

Sample ID	Lab ID	Latitude			Longitude			Date	Depth to Water (feet bsg)	Sample Depth (feet bsg)	Matrix	Laboratory Analysis
SB1-1	JB94209-1	40	40	32.2	74	00	54.6	5/7/2015	8	0-0.5	Solid	VO+10, B/N+20, Pesticides, PCBs, TAL Metals
SB1-2	JB94209-2	40	40	32.2	74	00	54.6	5/7/2015		5.5-6.0	Solid	VO+10, B/N+20, Pesticides, PCBs, TAL Metals
SB2-1	JB94209-3	40	40	32.3	74	00	54.9	5/7/2015	8	0-0.5	Solid	VO+10, B/N+20, Pesticides, PCBs, TAL Metals
SB2-2	JB94209-4	40	40	32.3	74	00	54.9	5/7/2015		6.5-7.0	Solid	VO+10, B/N+20, Pesticides, PCBs, TAL Metals
SB3-1	JB94209-5	40	40	32.3	74	00	55.3	5/7/2015	8	1.5-2.0	Solid	VO+10, B/N+20, Pesticides, PCBs, TAL Metals
SB3-2	JB94209-6	40	40	32.3	74	00	55.3	5/7/2015		7.5-8.0	Solid	VO+10, B/N+20, Pesticides, PCBs, TAL Metals
SB4-1	JB94209-7	40	40	32.7	74	00	55.3	5/7/2015	8	0.5-1.0	Solid	VO+10, B/N+20, Pesticides, PCBs, TAL Metals
SB4-2	JB94209-8	40	40	32.7	74	00	55.3	5/7/2015		6.0-6.5	Solid	VO+10, B/N+20, Pesticides, PCBs, TAL Metals
SB5-1	JB94209-9	40	40	32.3	74	00	55.6	5/7/2015	8	0.0-0.5	Solid	VO+10, B/N+20, Pesticides, PCBs, TAL Metals
SB5-2	JB94209-10	40	40	32.3	74	00	55.6	5/7/2015		7.0-7.5	Solid	VO+10, B/N+20, Pesticides, PCBs, TAL Metals
SB-5 DUP	JB94209-18	40	40	32.3	74	00	55.6	5/7/2015		7.0-7.5	Solid	VO+10, B/N+20, Pesticides, PCBs, TAL Metals
SB6-1	JB94209-11	40	40	31.9	74	00	55.0	5/7/2015	8	1.5-2.0	Solid	VO+10, B/N+20, Pesticides, PCBs, TAL Metals
SB6-2	JB94209-12	40	40	31.9	74	00	55.0	5/7/2015		6.0-6.5	Solid	VO+10, B/N+20, Pesticides, PCBs, TAL Metals
TW-1	JB94209-13	40	40	32.2	74	00	54.6	5/7/2015	8.2	9.5	GW	VO+10, B/N+20, Pesticides, PCBs, TAL Metals Unfiltered, TAL Metals Filtered*
TW-2	JB94209-14	40	40	32.7	74	00	55.3	5/7/2015	8.2	10.5	GW	VO+10, B/N+20, Pesticides, PCBs, TAL Metals Unfiltered, TAL Metals Filtered*
TW-2 DUP	JB94209-16	40	40	32.7	74	00	55.3	5/7/2015	8.2	10.5	GW	VO+10, B/N+20, Pesticides, PCBs, TAL Metals Unfiltered, TAL Metals Filtered*
TW-3	JB94209-15	40	40	32.3	74	00	55.6	5/7/2015	8.13	10.5	GW	VO+10, B/N+20, Pesticides, PCBs, TAL Metals Unfiltered, TAL Metals Filtered*
FB	JB94209-17	40	40	32.3	74	00	54.9	5/7/2015	N/A	N/A	AFB	VO+10, B/N+20, Pesticides, PCBs, TAL Metals Unfiltered, TAL Metals Filtered*
SV-1	JB94203-1	40	40	32.3	74	00	54.8	5/7/2015	N/A	5.0	SV	TO-15
SV-2	JB94203-2	40	40	32.5	74	00	55.1	5/7/2015	N/A	5.0	SV	TO-15
SV-3	JB94203-3	40	40	32.	74	00	55.2	5/7/2015	N/A	5.0	SV	TO-15
SV-4	JB94203-4	40	40	32.2	74	00	55.5	5/7/2015	N/A	5.0	SV	TO-15
SV-5	JB94203-5	40	40	32.1	74	00	55.0	5/7/2015	N/A	5.0	SV	TO-15

Notes:
GW - Groundwater
AFB - Aqueous Field Blank
SV - Soil Vapor
VO+10 - Volatile Organic Compounds
B/N+20 - Semi-Volatile Organic Compounds
PCBs - Polychlorinated biphenyls
TAL Metals - Target Analyte List Metals
TO-15 - Compendium Method TO-15 for the Determination of Toxic Organic Compounds in Ambient Air
* - Contingency analysis

Table 2: Soil Remedial Investigation Analytical Results - Volatile Organic Compounds
430-434 Van Brunt Street
Brooklyn, New York
PT Project No: 12090-03

Sample ID	NY SCO - Unrestricted Use (6 NYCRR 375-6 12/06)	NY SCO - Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Restricted Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Commercial w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	SB1-1	SB1-2	SB2-1	SB2-2	SB3-1	SB3-2	SB4-1
Lab ID					JB94209-1	JB94209-2	JB94209-3	JB94209-4	JB94209-5	JB94209-6	JB94209-7
Sample Date					5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015
Area of Concern					Soil	Soil	Soil	Soil	Soil	Soil	Soil
GC/MS Volatiles (SW846 8260C) (ug/kg)											
Acetone	50	100,000	100,000	500,000	ND (2.6)	13	ND (2.7)	ND (2.7)	**123**	**128**	ND (2.6)
Benzene	60	2,900	4,800	44,000	ND (0.15)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.15)	ND (0.15)	0.48 J
2-Butanone (MEK)	120	100,000	100,000	500,000	ND (2.2)	ND (2.3)	ND (2.3)	ND (2.3)	16.9	19.5	ND (2.2)
Carbon disulfide	NS	100,000	NS	NS	ND (0.26)	ND (0.27)	ND (0.27)	ND (0.27)	1.7 J	0.63 J	ND (0.26)
Carbon tetrachloride	760	1,400	2,400	22,000	ND (0.26)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.26)	ND (0.26)	ND (0.26)
Chlorobenzene	1,100	100,000	100,000	500,000	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.17)	ND (0.18)
Chloroethane	NS	NS	NS	NS	ND (0.55)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.55)	ND (0.54)	ND (0.55)
Chloroform	370	10,000	49,000	350,000	ND (0.17)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.17)
1,2-Dichlorobenzene	1,100	100,000	100,000	500,000	ND (0.14)	ND (0.14)	ND (0.15)	ND (0.15)	ND (0.14)	ND (0.14)	ND (0.14)
1,3-Dichlorobenzene	2,400	17,000	49,000	280,000	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.18)
1,4-Dichlorobenzene	1,800	9,800	13,000	130,000	ND (0.26)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.26)	ND (0.25)	ND (0.26)
Dichlorodifluoromethane	NS	NS	NS	NS	ND (0.41)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.41)	ND (0.40)	ND (0.41)
1,1-Dichloroethane	270	19,000	26,000	240,000	ND (0.16)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.16)	ND (0.16)	ND (0.16)
1,2-Dichloroethane	20	2,300	3,100	30,000	ND (0.15)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.15)
1,1-Dichloroethene	330	100,000	100,000	500,000	ND (0.68)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.68)	ND (0.66)	ND (0.68)
cis-1,2-Dichloroethene	250	59,000	100,000	500,000	ND (0.89)	ND (0.93)	ND (0.93)	ND (0.93)	ND (0.89)	ND (0.87)	ND (0.89)
trans-1,2-Dichloroethene	190	100,000	100,000	500,000	ND (0.68)	ND (0.71)	ND (0.71)	ND (0.71)	ND (0.68)	ND (0.67)	ND (0.68)
Ethylbenzene	1,000	30,000	41,000	390,000	0.41 J	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.19)
Freon 113	NS	100,000	NS	NS	ND (0.51)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.51)	ND (0.50)	ND (0.51)
2-Hexanone	NS	NS	NS	NS	ND (1.5)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.5)	ND (1.5)	ND (1.5)
Isopropylbenzene	NS	100,000	NS	NS	0.58 J	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.12)	ND (0.12)	ND (0.12)
Methyl Acetate	NS	NS	NS	NS	ND (0.98)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.98)	ND (0.96)	ND (0.99)
Methylcyclohexane	NS	NS	NS	NS	ND (0.26)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.26)	ND (0.25)	ND (0.26)
Methyl Tert Butyl Ether	930	62,000	100,000	500,000	ND (0.17)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.18)
Methylene chloride	50	51,000	100,000	500,000	ND (1.1)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.1)	ND (1.1)	ND (1.1)
Styrene	NS	NS	NS	NS	ND (0.20)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.20)	ND (0.20)	ND (0.20)
1,1,2,2-Tetrachloroethane	NS	35,000	NS	NS	ND (0.20)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.20)	ND (0.20)	ND (0.20)
Tetrachloroethene	1,300	5,500	19,000	150,000	ND (0.34)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.34)	ND (0.34)	ND (0.35)
Toluene	700	100,000	100,000	500,000	ND (0.24)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.24)	ND (0.23)	0.39 J
1,2,3-Trichlorobenzene	NS	NS	NS	NS	ND (0.20)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.20)	ND (0.20)	ND (0.20)
1,2,4-Trichlorobenzene	NS	NS	NS	NS	ND (0.19)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.19)	ND (0.19)	ND (0.19)
1,1,1-Trichloroethane	680	100,000	100,000	500,000	ND (0.17)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.17)
1,1,2-Trichloroethane	NS	NS	NS	NS	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.16)	ND (0.17)
Trichloroethene	470	10,000	21,000	200,000	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.16)	ND (0.17)
Trichlorofluoromethane	NS	NS	NS	NS	ND (0.28)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.28)	ND (0.28)	ND (0.29)
Vinyl chloride	20	210	900	13,000	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.22)	ND (0.22)	ND (0.23)
m,p-Xylene	260	100,000	100,000	500,000	2.7	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.40)	ND (0.39)	0.90 J
o-Xylene	260	100,000	100,000	500,000	4	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.31)	ND (0.31)	0.74 J
Xylene (total)	260	100,000	100,000	500,000	6.7	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.31)	ND (0.31)	1.6

Notes:
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NA - Not Analyzed
ND - Not Detected at the Indicated Concentration
J - Reported concentration is approximate
NY SCO - New York Soil Cleanup Objectives
GREY - Concentration exceeds a NY SCO, but is under NY Commercial SCO
BLACK - Exceeds NY Commercial SCO

Table 2: Soil Remedial Investigation Analytical Results - Volatile Organic Compounds
430-434 Van Brunt Street
Brooklyn, New York
PT Project No: 12090-03

Sample ID	NY SCO - Unrestricted Use (6 NYCRR 375-6 12/06)	NY SCO - Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Restricted Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Commercial w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	SB4-2	SB5-1	SB5-2	SB5-2 DUP	SB6-1	SB6-2
Lab ID					JB94209-8	JB94209-9	JB94209-10	JB94209-18	JB94209-11	JB94209-12
Sample Date					5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015
Area of Concern					Soil	Soil	Soil	Soil	Soil	Soil
GC/MS Volatiles (SW846 8260C) (ug/kg)										
Acetone	50	100,000	100,000	500,000	ND (2.6)	ND (2.4)	ND (2.5)	11.0 J	ND (2.4)	ND (2.6)
Benzene	60	2,900	4,800	44,000	ND (0.16)	ND (0.14)	ND (0.15)	ND (0.17)	ND (0.14)	ND (0.15)
2-Butanone (MEK)	120	100,000	100,000	500,000	ND (2.3)	ND (2.1)	ND (2.2)	ND (2.4)	ND (2.1)	ND (2.2)
Carbon disulfide	NS	100,000	NS	NS	ND (0.27)	ND (0.25)	ND (0.26)	ND (0.29)	ND (0.25)	ND (0.26)
Carbon tetrachloride	760	1,400	2,400	22,000	ND (0.27)	ND (0.25)	ND (0.26)	ND (0.29)	ND (0.25)	ND (0.27)
Chlorobenzene	1,100	100,000	100,000	500,000	ND (0.18)	ND (0.17)	ND (0.18)	ND (0.19)	ND (0.17)	ND (0.18)
Chloroethane	NS	NS	NS	NS	ND (0.57)	ND (0.52)	ND (0.55)	ND (0.60)	ND (0.52)	ND (0.56)
Chloroform	370	10,000	49,000	350,000	ND (0.18)	ND (0.16)	ND (0.17)	ND (0.19)	ND (0.16)	ND (0.17)
1,2-Dichlorobenzene	1,100	100,000	100,000	500,000	ND (0.14)	ND (0.13)	ND (0.14)	ND (0.15)	ND (0.13)	ND (0.14)
1,3-Dichlorobenzene	2,400	17,000	49,000	280,000	ND (0.19)	ND (0.17)	ND (0.18)	ND (0.20)	ND (0.17)	ND (0.18)
1,4-Dichlorobenzene	1,800	9,800	13,000	130,000	ND (0.27)	ND (0.24)	ND (0.26)	ND (0.28)	ND (0.24)	ND (0.26)
Dichlorodifluoromethane	NS	NS	NS	NS	ND (0.43)	ND (0.39)	ND (0.41)	ND (0.45)	ND (0.39)	ND (0.42)
1,1-Dichloroethane	270	19,000	26,000	240,000	ND (0.17)	ND (0.15)	ND (0.16)	ND (0.18)	ND (0.15)	ND (0.16)
1,2-Dichloroethane	20	2,300	3,100	30,000	ND (0.16)	ND (0.14)	ND (0.15)	ND (0.17)	ND (0.14)	ND (0.15)
1,1-Dichloroethene	330	100,000	100,000	500,000	ND (0.70)	ND (0.64)	ND (0.67)	ND (0.74)	ND (0.64)	ND (0.68)
cis-1,2-Dichloroethene	250	59,000	100,000	500,000	ND (0.92)	ND (0.84)	ND (0.88)	ND (0.97)	ND (0.84)	ND (0.90)
trans-1,2-Dichloroethene	190	100,000	100,000	500,000	ND (0.70)	ND (0.64)	ND (0.67)	ND (0.74)	ND (0.64)	ND (0.69)
Ethylbenzene	1,000	30,000	41,000	390,000	ND (0.19)	0.42 J	ND (0.18)	0.26 J	ND (0.18)	ND (0.19)
Freon 113	NS	100,000	NS	NS	ND (0.53)	ND (0.48)	ND (0.51)	ND (0.56)	ND (0.48)	ND (0.52)
2-Hexanone	NS	NS	NS	NS	ND (1.6)	ND (1.4)	ND (1.5)	ND (1.7)	ND (1.4)	ND (1.5)
Isopropylbenzene	NS	100,000	NS	NS	ND (0.13)	ND (0.11)	ND (0.12)	ND (0.13)	ND (0.11)	ND (0.12)
Methyl Acetate	NS	NS	NS	NS	ND (1.0)	ND (0.92)	ND (0.98)	ND (1.1)	6.2	ND (0.99)
Methylcyclohexane	NS	NS	NS	NS	ND (0.27)	ND (0.24)	ND (0.26)	ND (0.28)	ND (0.24)	ND (0.26)
Methyl Tert Butyl Ether	930	62,000	100,000	500,000	ND (0.18)	ND (0.16)	ND (0.17)	ND (0.19)	ND (0.16)	ND (0.18)
Methylene chloride	50	51,000	100,000	500,000	ND (1.2)	1.8 J	ND (1.1)	1.6 J	ND (1.1)	ND (1.1)
Styrene	NS	NS	NS	NS	ND (0.21)	ND (0.19)	ND (0.20)	ND (0.22)	ND (0.19)	ND (0.21)
1,1,2,2-Tetrachloroethane	NS	35,000	NS	NS	ND (0.21)	ND (0.19)	ND (0.20)	ND (0.22)	ND (0.19)	ND (0.20)
Tetrachloroethene	1,300	5,500	19,000	150,000	ND (0.35)	0.78 J	ND (0.34)	ND (0.38)	ND (0.32)	ND (0.35)
Toluene	700	100,000	100,000	500,000	ND (0.25)	0.62 J	ND (0.24)	0.34 J	ND (0.22)	ND (0.24)
1,2,3-Trichlorobenzene	NS	NS	NS	NS	ND (0.21)	ND (0.19)	ND (0.20)	ND (0.22)	ND (0.19)	ND (0.20)
1,2,4-Trichlorobenzene	NS	NS	NS	NS	ND (0.20)	ND (0.18)	ND (0.19)	ND (0.21)	ND (0.18)	ND (0.20)
1,1,1-Trichloroethane	680	100,000	100,000	500,000	ND (0.18)	ND (0.16)	ND (0.17)	ND (0.19)	ND (0.16)	ND (0.17)
1,1,2-Trichloroethane	NS	NS	NS	NS	ND (0.17)	ND (0.16)	ND (0.17)	ND (0.18)	ND (0.16)	ND (0.17)
Trichloroethene	470	10,000	21,000	200,000	ND (0.17)	ND (0.16)	ND (0.17)	ND (0.18)	ND (0.16)	ND (0.17)
Trichlorofluoromethane	NS	NS	NS	NS	ND (0.29)	ND (0.27)	ND (0.28)	ND (0.31)	ND (0.27)	ND (0.29)
Vinyl chloride	20	210	900	13,000	ND (0.23)	ND (0.21)	ND (0.22)	ND (0.25)	ND (0.21)	ND (0.23)
m,p-Xylene	260	100,000	100,000	500,000	0.58 J	2.3	ND (0.40)	1.2 J	ND (0.38)	ND (0.41)
o-Xylene	260	100,000	100,000	500,000	ND (0.32)	0.73 J	ND (0.31)	0.38 J	ND (0.29)	ND (0.32)
Xylene (total)	260	100,000	100,000	500,000	0.84 J	3.1	ND (0.31)	1.6	ND (0.29)	ND (0.32)

Notes:
NS - No Standard
NA - Not Analyzed
ND - Not Detected at the Indicated Concentration
J - Reported concentration is approximate
NY SCO - New York Soil Cleanup Objectives
GREY - Concentration exceeds a NY SCO, but is under NY Commercial SCO
BLACK - Exceeds NY Commercial SCO

Table 3: Soil Remedial Investigation Analytical Results - Semi-Volatile Organic Compounds
430-434 Van Brunt Street
Brooklyn, New York
PT Project No: 12090-03

Sample ID	NY SCO - Unrestricted Use (6 NYCRR 375-6 12/06)	NY SCO - Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Restricted Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Commercial w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	SB1-1	SB1-2	SB2-1	SB2-2	SB3-1	SB3-2
Lab ID					JB94209-1	JB94209-2	JB94209-3	JB94209-4	JB94209-5	JB94209-6
Area of Concern					5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015
Sample Date					Soil	Soil	Soil	Soil	Soil	Soil
GC/MS Semi-volatiles (SW846 8270D) (ug/kg)										
2-Methylphenol	330	100,000	100,000	500,000	ND (43)	ND (43)	ND (44)	ND (45)	ND (43)	ND (41)
3&4-Methylphenol	NS	NS	NS	NS	213	ND (48)	ND (50)	ND (50)	ND (48)	ND (46)
Pentachlorophenol	800	2,400	6,700	6,700	ND (64)	ND (65)	ND (67)	ND (67)	ND (64)	ND (62)
Phenol	330	100,000	100,000	500,000	190	ND (40)	ND (41)	ND (41)	ND (39)	ND (38)
2,4,5-Trichlorophenol	NS	100,000	NS	NS	ND (44)	ND (44)	ND (45)	ND (45)	ND (44)	ND (42)
Acenaphthene	20,000	100,000	100,000	500,000	ND (11)	ND (11)	574	ND (11)	1630	ND (10)
Acenaphthylene	100,000	100,000	100,000	500,000	44.5	ND (12)	1560	ND (13)	365	ND (12)
Acetophenone	NS	NS	NS	NS	76.7 J	ND (6.7)	ND (6.9)	ND (6.9)	ND (6.6)	ND (6.4)
Anthracene	100,000	100,000	100,000	500,000	ND (13)	ND (13)	2790	ND (14)	4290	ND (13)
Benzo(a)anthracene	1,000	1,000	1,000	5,600	ND (12)	ND (12)	**9980**	ND (13)	**10600**	18.3 J
Benzo(a)pyrene	1,000	1,000	1,000	1,000	ND (12)	ND (12)	**8200**	ND (12)	**8700**	ND (11)
Benzo(b)fluoranthene	1,000	1,000	1,000	5,600	17.3 J	ND (13)	**10200**	ND (13)	**11100**	15.0 J
Benzo(g,h,i)perylene	100,000	100,000	100,000	500,000	ND (14)	ND (14)	3810	ND (15)	4670	ND (13)
Benzo(k)fluoranthene	800	1,000	3,900	56,000	ND (14)	ND (14)	**2500**	ND (15)	**2690**	ND (14)
Butyl benzyl phthalate	NS	100,000	NS	NS	ND (22)	ND (22)	ND (23)	ND (23)	ND (22)	ND (21)
1,1'-Biphenyl	NS	NS	NS	NS	48.2 J	ND (4.4)	48.3 J	ND (4.5)	140	ND (4.2)
Benzaldehyde	NS	NS	NS	NS	ND (8.7)	ND (8.7)	ND (9.0)	ND (9.0)	32.2 J	ND (8.3)
2-Chloronaphthalene	NS	NS	NS	NS	148	ND (12)	ND (12)	ND (12)	ND (12)	ND (11)
Carbazole	NS	NS	NS	NS	ND (17)	ND (18)	1150	ND (18)	1970	ND (17)
Caprolactam	NS	NS	NS	NS	ND (12)	ND (12)	ND (12)	ND (12)	ND (12)	ND (11)
Chrysene	1,000	1,000	3,900	56,000	19.8 J	ND (13)	**10400**	ND (13)	**10200**	15.1 J
1,4-Dioxane	100	9,800	13,000	130,000	ND (25)	ND (25)	ND (25)	ND (25)	ND (24)	ND (23)
Dibenzo(a,h)anthracene	330	330	330	560	ND (13)	ND (13)	**1950**	ND (13)	**1810**	ND (12)
Dibenzofuran	7,000	14,000	59,000	350,000	ND (11)	ND (11)	461	ND (12)	1150	ND (11)
Di-n-butyl phthalate	NS	100,000	NS	NS	ND (8.4)	ND (8.4)	80.8	ND (8.7)	ND (8.3)	ND (8.0)
bis(2-Ethylhexyl)phthalate	NS	50,000	NS	NS	ND (33)	ND (33)	ND (34)	ND (35)	191	ND (32)
Fluoranthene	100,000	100,000	100,000	500,000	48	ND (17)	18000	ND (17)	23400	28.3 J
Fluorene	30,000	100,000	100,000	500,000	ND (12)	ND (12)	742	ND (13)	1860	ND (12)
Hexachlorobenzene	330	410	1,200	6,000	ND (12)	ND (12)	ND (13)	ND (13)	ND (12)	ND (12)
Hexachlorobutadiene	NS	NS	NS	NS	ND (10)	ND (11)	ND (11)	ND (11)	ND (10)	ND (10)
Indeno(1,2,3-cd)pyrene	500	500	500	5,600	ND (13)	ND (13)	**3550**	ND (14)	**4350**	ND (13)
Isophorone	NS	100,000	NS	NS	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (9.7)
2-Methylnaphthalene	NS	410	NS	NS	35.2 J	ND (21)	178	ND (22)	**471**	ND (20)
Naphthalene	12,000	100,000	100,000	500,000	387	ND (10)	388	ND (11)	1120	ND (9.9)
Nitrobenzene	NS	3,700	15,000	69,000	ND (11)	ND (11)	ND (11)	ND (11)	ND (11)	ND (10)
N-Nitroso-di-n-propylamine	NS	NS	NS	NS	ND (9.2)	ND (9.2)	ND (9.5)	ND (9.5)	ND (9.2)	ND (8.8)
Phenanthrene	100,000	100,000	100,000	500,000	89.6	ND (17)	12200	ND (18)	21600	25.4 J
Pyrene	100,000	100,000	100,000	500,000	41.1	ND (15)	20800	ND (15)	23600	28.4 J
1,2,4,5-Tetrachlorobenzene	NS	NS	NS	NS	ND (12)	ND (12)	ND (12)	ND (12)	ND (12)	ND (11)

Notes:
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NA - Not Analyzed
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J - Reported concentration is approximate
NY SCO - New York Soil Cleanup Objectives
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Table 3: Soil Remedial Investigation Analytical Results - Semi-Volatile Organic Compounds
430-434 Van Brunt Street
Brooklyn, New York
PT Project No: 12090-03

Sample ID	NY SCO - Unrestricted Use (6 NYCRR 375-6 12/06)	NY SCO - Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Restricted Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Commercial w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	SB4-1	SB4-2	SB5-1	SB5-2	SB5-2 DUP	SB6-1	SB6-2
Lab ID					JB94209-7	JB94209-8	JB94209-9	JB94209-10	JB94209-18	JB94209-11	JB94209-12
Area of Concern					5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015
Sample Date					Soil	Soil	Soil	Soil	Soil	Soil	Soil
GC/MS Semi-volatiles (SW846 8270D) (ug/kg)											
2-Methylphenol	330	100,000	100,000	500,000	ND (41)	ND (44)	ND (200)	ND (42)	ND (44)	ND (39)	ND (41)
3&4-Methylphenol	NS	NS	NS	NS	ND (46)	ND (49)	ND (220)	ND (47)	ND (50)	84.8	ND (46)
Pentachlorophenol	800	2,400	6,700	6,700	ND (62)	ND (66)	ND (300)	ND (64)	ND (67)	ND (59)	ND (62)
Phenol	330	100,000	100,000	500,000	ND (38)	ND (40)	ND (190)	ND (39)	ND (41)	ND (36)	ND (38)
2,4,5-Trichlorophenol	NS	100,000	NS	NS	ND (42)	ND (45)	ND (210)	ND (43)	ND (45)	ND (40)	ND (42)
Acenaphthene	20,000	100,000	100,000	500,000	28.6 J	ND (11)	1150	56.9	ND (11)	5810	57.3
Acenaphthylene	100,000	100,000	100,000	500,000	72.8	ND (12)	217	77.2	ND (12)	173	ND (12)
Acetophenone	NS	NS	NS	NS	64.8 J	ND (6.8)	ND (31)	ND (6.5)	ND (6.9)	ND (6.1)	ND (6.3)
Anthracene	100,000	100,000	100,000	500,000	118	ND (13)	3070	167	ND (14)	13100	129
Benzo(a)anthracene	1,000	1,000	1,000	5,600	413	31.8 J	**8350**	553	27.0 J	**27300**	302
Benzo(a)pyrene	1,000	1,000	1,000	1,000	431	22.0 J	**7800**	522	20.7 J	**21700**	263
Benzo(b)fluoranthene	1,000	1,000	1,000	5,600	566	26.7 J	**10300**	661	28.1 J	**27300**	323
Benzo(g,h,i)perylene	100,000	100,000	100,000	500,000	298	ND (14)	4330	321	ND (15)	11100	134
Benzo(k)fluoranthene	800	1,000	3,900	56,000	156	ND (14)	**2680**	173	ND (15)	**8330**	114
Butyl benzyl phthalate	NS	100,000	NS	NS	44.6 J	ND (22)	ND (100)	ND (22)	ND (23)	ND (20)	ND (21)
1,1'-Biphenyl	NS	NS	NS	NS	ND (4.2)	ND (4.5)	92.2 J	ND (4.3)	ND (4.5)	352	ND (4.2)
Benzaldehyde	NS	NS	NS	NS	57.3 J	ND (8.9)	ND (41)	ND (8.5)	ND (9.0)	ND (7.9)	ND (8.3)
2-Chloronaphthalene	NS	NS	NS	NS	ND (11)	ND (12)	ND (55)	ND (12)	ND (12)	ND (11)	ND (11)
Carbazole	NS	NS	NS	NS	63.5 J	ND (18)	1400	97.8	ND (18)	6560	66.7 J
Caprolactam	NS	NS	NS	NS	ND (11)	ND (12)	ND (56)	ND (12)	ND (12)	ND (11)	ND (11)
Chrysene	1,000	1,000	3,900	56,000	435	23.5 J	**7930**	579	25.3 J	**25100**	280
1,4-Dioxane	100	9,800	13,000	130,000	ND (24)	ND (25)	ND (110)	ND (24)	ND (25)	ND (22)	ND (23)
Dibenzo(a,h)anthracene	330	330	330	560	79.3	ND (13)	**1440**	94.7	ND (13)	**3680**	41.4
Dibenzofuran	7,000	14,000	59,000	350,000	27.0 J	ND (11)	768	49.1 J	ND (12)	3400	33.6 J
Di-n-butyl phthalate	NS	100,000	NS	NS	ND (8.0)	ND (8.6)	ND (39)	ND (8.3)	ND (8.7)	64.4 J	ND (8.0)
bis(2-Ethylhexyl)phthalate	NS	50,000	NS	NS	93.7	ND (34)	1490	ND (33)	ND (34)	ND (30)	ND (32)
Fluoranthene	100,000	100,000	100,000	500,000	877	51.4	16900	1050	47.4	62000	621
Fluorene	30,000	100,000	100,000	500,000	42.5	ND (13)	1310	75.4	ND (13)	5850	55.6
Hexachlorobenzene	330	410	1,200	6,000	ND (12)	ND (13)	ND (58)	ND (12)	ND (13)	ND (11)	ND (12)
Hexachlorobutadiene	NS	NS	NS	NS	ND (10)	ND (11)	ND (49)	ND (10)	ND (11)	ND (9.6)	ND (10)
Indeno(1,2,3-cd)pyrene	500	500	500	5,600	259	ND (13)	**3980**	279	ND (14)	**10500**	123
Isophorone	NS	100,000	NS	NS	ND (9.7)	ND (10)	ND (48)	ND (10)	ND (10)	ND (9.3)	ND (9.7)
2-Methylnaphthalene	NS	410	NS	NS	ND (20)	ND (22)	282 J	27.9 J	ND (22)	**1230**	ND (20)
Naphthalene	12,000	100,000	100,000	500,000	34.9 J	ND (11)	513	53.7	ND (11)	3320	23.0 J
Nitrobenzene	NS	3,700	15,000	69,000	ND (10)	ND (11)	ND (51)	ND (11)	ND (11)	ND (10)	ND (10)
N-Nitroso-di-n-propylamine	NS	NS	NS	NS	ND (8.8)	ND (9.4)	ND (43)	ND (9.1)	ND (9.5)	ND (8.4)	ND (8.8)
Phenanthrene	100,000	100,000	100,000	500,000	598	42.9	14300	858	43.1	57100	512
Pyrene	100,000	100,000	100,000	500,000	938	46.5	16200	1230	46.4	58700	559
1,2,4,5-Tetrachlorobenzene	NS	NS	NS	NS	ND (11)	ND (12)	ND (54)	ND (11)	ND (12)	ND (11)	ND (11)

Notes:
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NA - Not Analyzed
ND - Not Detected at the Indicated Concentration
J - Reported concentration is approximate
NY SCO - New York Soil Cleanup Objectives
GREY - Concentration exceeds a NY SCO, but is under NY Commercial SCO
BLACK - Exceeds NY Commercial SCO

Table 4: Soil Remedial Investigation Analytical Results - Pesticides and PCBs
430-434 Van Brunt Street
Brooklyn, New York
PT Project No: 12090-03

Sample ID	NY SCO - Unrestricted Use (6 NYCRR 375-6 12/06)	NY SCO - Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Restricted Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Commercial w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	SB1-1	SB1-2	SB2-1	SB2-2	SB3-1	SB3-2	SB4-1
Lab ID					JB94209-1	JB94209-2	JB94209-3	JB94209-4	JB94209-5	JB94209-6	JB94209-7
Area of Concern					5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015
Sample Date					Soil	Soil	Soil	Soil	Soil	Soil	Soil
GC Semi-volatiles (SW846 8081B) (ug/kg)											
Aldrin	5	19	97	680	ND (0.34)	ND (0.33)	ND (0.36)	ND (0.36)	ND (0.32)	ND (0.33)	ND (0.31)
alpha-BHC	20	97	480	3,400	ND (0.22)	ND (0.21)	1.4 [a]	ND (0.24)	ND (0.21)	ND (0.22)	ND (0.20)
beta-BHC	36	72	360	3,000	ND (0.46)	ND (0.44)	ND (0.48)	ND (0.49)	ND (0.44)	ND (0.45)	ND (0.43)
delta-BHC	40	100,000	100,000	500,000	ND (0.37)	ND (0.35)	2.3	ND (0.39)	ND (0.35)	ND (0.36)	ND (0.34)
gamma-BHC (Lindane)	100	280	1,300	9,200	ND (0.36)	ND (0.35)	ND (0.38)	ND (0.39)	ND (0.34)	ND (0.36)	ND (0.33)
alpha-Chlordane	94	910	4,200	24,000	ND (0.27)	ND (0.26)	15.8 [a]	ND (0.29)	**131**	ND (0.27)	ND (0.25)
gamma-Chlordane	NS	540	NS	NS	ND (0.51)	ND (0.49)	15.3	ND (0.55)	98.3	ND (0.50)	ND (0.47)
Dieldrin	5	39	200	1,400	ND (0.29)	ND (0.28)	**13.5**	ND (0.31)	ND (0.27)	ND (0.28)	ND (0.27)
4,4'-DDD	3	2,600	13,000	92,000	ND (0.41)	ND (0.39)	**343**	ND (0.43)	**17.8**	ND (0.40)	2.1 [a]
4,4'-DDE	3	1,800	8,900	62,000	ND (0.30)	ND (0.28)	**693**	ND (0.32)	**4.9**	ND (0.29)	0.99
4,4'-DDT	3	1,700	7,900	47,000	ND (0.37)	ND (0.35)	**3030**	ND (0.39)	**10.8**	ND (0.36)	**7.2**
Endrin	14	2,200	11,000	89,000	ND (0.24)	ND (0.23)	ND (0.25)	ND (0.26)	ND (0.23)	ND (0.24)	ND (0.22)
Heptachlor	42	420	2,100	15,000	ND (0.36)	ND (0.34)	ND (0.38)	ND (0.39)	ND (0.34)	ND (0.35)	ND (0.33)
Heptachlor epoxide	NS	77	NS	NS	ND (0.28)	ND (0.26)	ND (0.29)	ND (0.30)	2.3 [a]	ND (0.27)	ND (0.26)
Methoxychlor	NS	100,000	NS	NS	ND (0.73)	ND (0.69)	26.3 [a]	ND (0.78)	ND (0.69)	ND (0.71)	ND (0.67)
GC Semi-volatiles (SW846 8082A) (ug/kg)											
Aroclor 1016	100	1,000	1,000	1,000	ND (9.2)	ND (9.8)	ND (9.8)	ND (9.5)	ND (8.9)	ND (9.6)	ND (9.6)
Aroclor 1221	100	1,000	1,000	1,000	ND (21)	ND (23)	ND (23)	ND (22)	ND (21)	ND (22)	ND (22)
Aroclor 1232	100	1,000	1,000	1,000	ND (18)	ND (19)	ND (19)	ND (19)	ND (17)	ND (19)	ND (19)
Aroclor 1242	100	1,000	1,000	1,000	ND (11)	ND (12)	ND (12)	ND (12)	ND (11)	ND (12)	ND (12)
Aroclor 1248	100	1,000	1,000	1,000	ND (11)	ND (11)	ND (11)	ND (11)	ND (10)	ND (11)	ND (11)
Aroclor 1254	100	1,000	1,000	1,000	ND (17)	ND (18)	ND (18)	ND (17)	ND (16)	ND (17)	ND (17)
Aroclor 1260	100	1,000	1,000	1,000	ND (12)	ND (12)	ND (12)	ND (12)	ND (11)	ND (12)	ND (12)
Aroclor 1268	100	1,000	1,000	1,000	ND (10)	ND (11)	ND (11)	ND (11)	ND (10)	ND (11)	ND (11)
Aroclor 1262	100	1,000	1,000	1,000	ND (11)	ND (12)	ND (12)	ND (12)	ND (11)	ND (12)	ND (12)

Notes:
NS - No Standard
NA - Not Analyzed
ND - Not Detected at the Indicated Concentration
a - More than 40 % RPD for detected concentrations between the two GC columns
J - Reported concentration is approximate
PCBs - Polychlorinated Biphenyls
NY SCO - New York Soil Cleanup Objectives
GREY - Concentration exceeds a NY SCO, but is under NY Commercial SCO
BLACK - Exceeds NY Commercial SCO

Table 4: Soil Remedial Investigation Analytical Results - Pesticides and PCBs
430-434 Van Brunt Street
Brooklyn, New York
PT Project No: 12090-03

Sample ID	NY SCO - Unrestricted Use (6 NYCRR 375-6 12/06)	NY SCO - Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Restricted Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Commercial w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	SB4-2	SB5-1	SB5-2	SB5-2 DUP	SB6-1	SB6-2
Lab ID					JB94209-8	JB94209-9	JB94209-10	JB94209-18	JB94209-11	JB94209-12
Area of Concern					5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015
Sample Date					Soil	Soil	Soil	Soil	Soil	Soil
GC Semi-volatiles (SW846 8081B) (ug/kg)										
Aldrin	5	19	97	680	ND (0.34)	ND (0.32)	ND (0.33)	ND (0.35)	ND (0.32)	ND (0.33)
alpha-BHC	20	97	480	3,400	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.23)	ND (0.21)	ND (0.22)
beta-BHC	36	72	360	3,000	ND (0.46)	ND (0.43)	ND (0.44)	ND (0.48)	ND (0.43)	ND (0.45)
delta-BHC	40	100,000	100,000	500,000	ND (0.36)	1.7	ND (0.35)	ND (0.38)	ND (0.34)	ND (0.36)
gamma-BHC (Lindane)	100	280	1,300	9,200	ND (0.36)	ND (0.34)	ND (0.35)	ND (0.37)	ND (0.34)	ND (0.36)
alpha-Chlordane	94	910	4,200	24,000	ND (0.27)	5.1	ND (0.26)	ND (0.28)	ND (0.26)	ND (0.27)
gamma-Chlordane	NS	540	NS	NS	ND (0.51)	3.6	ND (0.49)	ND (0.53)	ND (0.48)	ND (0.50)
Dieldrin	5	39	200	1,400	ND (0.29)	ND (0.27)	ND (0.28)	ND (0.30)	ND (0.27)	ND (0.28)
4,4'-DDD	3	2,600	13,000	92,000	ND (0.40)	**9.0** [a]	ND (0.39)	1.4	**12.4**	ND (0.40)
4,4'-DDE	3	1,800	8,900	62,000	ND (0.30)	2.5	ND (0.29)	ND (0.31)	1.2	ND (0.29)
4,4'-DDT	3	1,700	7,900	47,000	ND (0.36)	**17.6** [a]	2.2	**4.9**	ND (0.34)	ND (0.36)
Endrin	14	2,200	11,000	89,000	ND (0.24)	ND (0.22)	ND (0.23)	ND (0.25)	ND (0.23)	ND (0.23)
Heptachlor	42	420	2,100	15,000	ND (0.36)	ND (0.34)	ND (0.35)	ND (0.37)	ND (0.34)	ND (0.35)
Heptachlor epoxide	NS	77	NS	NS	ND (0.28)	2.9	ND (0.27)	ND (0.29)	ND (0.26)	ND (0.27)
Methoxychlor	NS	100,000	NS	NS	ND (0.72)	ND (0.67)	ND (0.69)	ND (0.75)	21.3	ND (0.71)
GC Semi-volatiles (SW846 8082A) (ug/kg)										
Aroclor 1016	100	1,000	1,000	1,000	ND (9.3)	ND (8.8)	ND (9.1)	ND (10)	ND (9.0)	ND (8.7)
Aroclor 1221	100	1,000	1,000	1,000	ND (22)	ND (20)	ND (21)	ND (23)	ND (21)	ND (20)
Aroclor 1232	100	1,000	1,000	1,000	ND (18)	ND (17)	ND (18)	ND (19)	ND (17)	ND (17)
Aroclor 1242	100	1,000	1,000	1,000	ND (11)	ND (11)	ND (11)	ND (12)	ND (11)	ND (11)
Aroclor 1248	100	1,000	1,000	1,000	ND (11)	ND (10)	ND (11)	ND (12)	ND (10)	ND (10)
Aroclor 1254	100	1,000	1,000	1,000	ND (17)	ND (16)	ND (16)	ND (18)	ND (16)	ND (16)
Aroclor 1260	100	1,000	1,000	1,000	ND (12)	ND (11)	ND (11)	ND (13)	ND (11)	ND (11)
Aroclor 1268	100	1,000	1,000	1,000	ND (11)	ND (10)	ND (10)	ND (11)	ND (10)	ND (9.9)
Aroclor 1262	100	1,000	1,000	1,000	ND (11)	ND (11)	ND (11)	ND (12)	ND (11)	ND (11)

Notes:
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NA - Not Analyzed
ND - Not Detected at the Indicated Concentration
a - More than 40 % RPD for detected concentrations between the two GC columns
J - Reported concentration is approximate
PCBs - Polychlorinated Biphenyls
NY SCO - New York Soil Cleanup Objectives
GREY - Concentration exceeds a NY SCO, but is under NY Commercial SCO
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Table 5: Soil Remedial Investigation Analytical Results - Metals
430-434 Van Brunt Street
Brooklyn, New York
PT Project No: 12090-03

Sample ID	NY SCO - Unrestricted Use (6 NYCRR 375-6 12/06)	NY SCO - Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Restricted Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Commercial w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	SB1-1	SB1-2	SB2-1	SB2-2	SB3-1	SB3-2
Lab ID					JB94209-1	JB94209-2	JB94209-3	JB94209-4	JB94209-5	JB94209-6
Area of Concern					5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015
Sample Date					Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis (mg/kg)										
Aluminum	NS	NS	NS	NS	3370	5240	6230	4990	10100	12200
Arsenic	13	16	16	16	5.1	5.3	5.8	5.3	8.5	4.2
Barium	350	350	400	400	47.9	30	56.6	29.3	146	39.2
Beryllium	7.2	14	72	590	0.26	0.38	0.51	0.35	0.59	0.4
Cadmium	2.5	2.5	4.3	9.3	0.69	<0.57	<0.59	<0.57	1.4	<0.57
Calcium	NS	NS	NS	NS	4900	<570	1980	10800	7870	942
Chromium	NS	NS	NS	NS	11.4	22.5	13.9	10.4	20.9	18.8
Cobalt	NS	30	NS	NS	<5.4	11.7	7.2	<5.7	7.8	7.3
Copper	50	270	270	270	40.2	14.7	32	18.9	**99.2**	11.6
Iron	NS	2,000	NS	NS	**8310**	**18700**	**13300**	**12200**	**22700**	**18500**
Lead	63	400	400	1,000	**198**	49.6	**117**	28	**416**	14.2
Magnesium	NS	NS	NS	NS	3380	2230	3660	6970	3480	2910
Manganese	1,600	2,000	2,000	10,000	141	422	372	96.4	261	297
Mercury	0.18	0.81	0.81	2.80	**0.35**	0.037	**0.42**	0.038	**1.5**	**0.58**
Nickel	30	140	310	310	15.7	**74.3**	**42.8**	20.9	**40.2**	20.4
Potassium	NS	NS	NS	NS	<1100	<1100	<1200	<1100	<1100	<1100
Silver	2	36	180	1,500	<0.54	<0.57	<0.59	<0.57	0.55	<0.57
Vanadium	NS	100	NS	NS	11	17.4	18.2	15	30.2	23.1
Zinc	109	2,200	10,000	10,000	**702**	**154**	**535**	**256**	**411**	48.5

Notes:
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ND - Not Detected at the Indicated Concentration
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NY SCO - New York Soil Cleanup Objectives
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Table 5: Soil Remedial Investigation Analytical Results - Metals
430-434 Van Brunt Street
Brooklyn, New York
PT Project No: 12090-03

Sample ID	NY SCO - Unrestricted Use (6 NYCRR 375-6 12/06)	NY SCO - Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Restricted Residential w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Commercial w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	SB4-1	SB4-2	SB5-1	SB5-2	SB5-2 DUP	SB6-1	SB6-2
Lab ID					JB94209-7	JB94209-8	JB94209-9	JB94209-10	JB94209-18	JB94209-11	JB94209-12
Area of Concern					5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015
Sample Date					Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis (mg/kg)											
Aluminum	NS	NS	NS	NS	8070	8350	8200	5460	8880	9760	5030
Arsenic	13	16	16	16	8.5	6.2	7.1	5.1	5.9	5.5	4.5
Barium	350	350	400	400	**1890**	30	261	23.8	36.9	179	27.4
Beryllium	7.2	14	72	590	0.45	0.4	0.46	0.32	0.5	0.95	0.34
Cadmium	2.5	2.5	4.3	9.3	0.8	<0.60	1.2	<0.57	<0.62	<0.57	0.52
Calcium	NS	NS	NS	NS	3590	736	1950	<570	1030	18100	935
Chromium	NS	NS	NS	NS	19.2	13	18.9	8.9	15.5	18.6	24.5
Cobalt	NS	30	NS	NS	8.8	8.7	8.1	6.3	9.4	8.2	10
Copper	50	270	270	270	**112**	17.5	**53.3**	12.6	24.1	**52.9**	11.6
Iron	NS	2,000	NS	NS	**19200**	**19100**	**19900**	**14600**	**19900**	**14100**	**13700**
Lead	63	400	400	1,000	**3150**	9.3	**687**	14.4	39.8	**131**	27.3
Magnesium	NS	NS	NS	NS	3210	2710	2130	1850	2790	9140	10100
Manganese	1,600	2,000	2,000	10,000	478	460	196	297	488	997	159
Mercury	0.18	0.81	0.81	2.80	**3**	<0.039	**0.42**	0.18	**0.29**	**0.21**	<0.036
Nickel	30	140	310	310	29.9	16.5	24.9	17.9	19.3	**72.1**	**148**
Potassium	NS	NS	NS	NS	<1200	<1200	<1000	<1100	1260	1290	<1000
Silver	2	36	180	1,500	0.97	<0.60	<0.51	<0.57	<0.62	<0.57	<0.52
Vanadium	NS	100	NS	NS	25.9	19.2	23.1	13.7	20.1	33.2	15.8
Zinc	109	2,200	10,000	10,000	**960**	42.9	**754**	40	74.7	91.6	27.8

Notes:
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NA - Not Analyzed
ND - Not Detected at the Indicated Concentration
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Table 6: Groundwater Remedial Investigation Analytical Results - Volatile Organic Compounds
430-434 Van Brunt Street
Brooklyn, New York
PT Project No: 12090-03

Sample ID	NY TOGS Class GA GW Standards (NYSDEC 6/2004)	TW-1	TW-2	TW-3	TW2-DUP
Lab ID		JB94209-13	JB94209-14	JB94209-15	JB94209-16
Sample Date		5/7/2015	5/7/2015	5/7/2015	5/7/2015
Area of Concern		Ground Water	Ground Water	Ground Water	Ground Water
GC/MS Volatiles (SW846 8260C) (ug/L)					
Acetone	NS	ND (3.3)	ND (3.3)	30.6	ND (3.3)
Benzene	1	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
Bromochloromethane	5	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)
Bromodichloromethane	NS	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Bromoform	NS	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Bromomethane	5	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)
2-Butanone (MEK)	NS	ND (5.6)	ND (5.6)	ND (5.6)	ND (5.6)
Carbon disulfide	60	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
Carbon tetrachloride	5	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
Chlorobenzene	5	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
Chloroethane	5	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)
Chloroform	7	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
Dibromochloromethane	NS	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
1,2-Dibromoethane	0.0006	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
1,2-Dichlorobenzene	3	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
1,3-Dichlorobenzene	3	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
1,4-Dichlorobenzene	3	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
Dichlorodifluoromethane	5	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)
1,1-Dichloroethane	5	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)
1,2-Dichloroethane	1	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)
1,1-Dichloroethene	5	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)
cis-1,2-Dichloroethene	5	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
trans-1,2-Dichloroethene	5	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)
Ethylbenzene	5	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
Freon 113	5	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
Methyl Tert Butyl Ether	10	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
4-Methyl-2-pentanone(MIBK)	NS	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Methylene chloride	5	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)
Styrene	5	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
1,1,2,2-Tetrachloroethane	5	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Tetrachloroethene	5	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)
Toluene	5	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
1,2,3-Trichlorobenzene	5	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
1,2,4-Trichlorobenzene	5	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
1,1,1-Trichloroethane	5	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
1,1,2-Trichloroethane	1	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Trichloroethene	5	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
Trichlorofluoromethane	5	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)
Vinyl chloride	2	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
m,p-Xylene	NS	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)
o-Xylene	5	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)
Xylene (total)	5	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)

Notes:
NS - No Standard
NA - Not Analyzed
ND - Not Detected at the Indicated Concentration
J - Reported concentration is approximate
NY TOGS - New York Technical and Operational Guidance Series
GREY - Concentration exceeds a NY Groundwater Standard

Table 7: Groundwater Remedial Investigation Analytical Results - Semi-Volatile Organic Compounds
430-434 Van Brunt Street
Brooklyn, New York
PT Project No: 12090-03

Sample ID	NY TOGS Class GA GW Standards (NYSDEC 6/2004)	TW-1	TW-2	TW-3	TW2-DUP	FB
Lab ID		JB94209-13	JB94209-14	JB94209-15	JB94209-16	JB94209-17
Area of Concern		5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015
Sample Date		Ground Water	Ground Water	Ground Water	Ground Water	Field Blank Water
GC/MS Semi-volatiles (SW846 8270D) (ug/L)						
2-Chlorophenol	NS	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.4)	ND (1.3)
4-Chloro-3-methyl phenol	NS	ND (1.3)	ND (1.3)	ND (1.4)	ND (1.4)	ND (1.4)
2,4-Dichlorophenol	1	ND (1.6)	ND (1.6)	ND (1.7)	ND (1.8)	ND (1.7)
2,4-Dinitrophenol	1	ND (6.5)	ND (6.5)	ND (6.8)	ND (7.2)	ND (7.0)
2-Methylphenol	NS	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.4)	ND (1.4)
2-Nitrophenol	NS	ND (1.9)	ND (1.9)	ND (1.9)	ND (2.1)	ND (2.0)
4-Nitrophenol	NS	ND (0.91)	ND (0.91)	ND (0.94)	ND (1.0)	ND (0.98)
Pentachlorophenol	1	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.5)	ND (1.5)
Phenol	1	ND (0.55)	ND (0.55)	ND (0.57)	ND (0.61)	ND (0.59)
2,4,5-Trichlorophenol	NS	ND (1.7)	ND (1.7)	ND (1.8)	ND (1.9)	ND (1.8)
2,4,6-Trichlorophenol	NS	ND (1.5)	ND (1.5)	ND (1.6)	ND (1.7)	ND (1.7)
Acenaphthene	NS	ND (0.30)	ND (0.30)	ND (0.31)	ND (0.33)	ND (0.32)
Acenaphthylene	NS	ND (0.20)	ND (0.20)	ND (0.21)	ND (0.22)	ND (0.22)
Acetophenone	NS	ND (0.36)	ND (0.36)	ND (0.38)	ND (0.40)	ND (0.39)
Anthracene	NS	ND (0.19)	ND (0.19)	ND (0.20)	ND (0.21)	ND (0.20)
Atrazine	7.5	ND (0.42)	ND (0.42)	ND (0.44)	ND (0.47)	ND (0.45)
Benzaldehyde	NS	ND (0.67)	ND (0.67)	ND (0.70)	ND (0.75)	ND (0.72)
Benzo(a)anthracene	NS	ND (0.22)	ND (0.22)	ND (0.23)	ND (0.24)	ND (0.23)
Benzo(a)pyrene	ND	ND (0.24)	ND (0.24)	ND (0.25)	ND (0.27)	ND (0.26)
Benzo(b)fluoranthene	NS	ND (0.22)	ND (0.22)	ND (0.23)	ND (0.25)	ND (0.24)
Benzo(g,h,i)perylene	NS	ND (0.31)	ND (0.31)	ND (0.32)	ND (0.34)	ND (0.33)
Benzo(k)fluoranthene	NS	ND (0.22)	ND (0.22)	ND (0.23)	ND (0.24)	ND (0.24)
4-Bromophenyl phenyl ether	NS	ND (0.25)	ND (0.25)	ND (0.26)	ND (0.28)	ND (0.27)
Butyl benzyl phthalate	NS	ND (0.22)	ND (0.22)	ND (0.23)	ND (0.25)	ND (0.24)
1,1'-Biphenyl	5	ND (0.27)	ND (0.27)	ND (0.29)	ND (0.30)	ND (0.29)
2-Chloronaphthalene	NS	ND (0.34)	ND (0.34)	ND (0.36)	ND (0.38)	ND (0.37)
4-Chloroaniline	5	ND (0.30)	ND (0.30)	ND (0.31)	ND (0.33)	ND (0.32)
Carbazole	NS	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.19)	ND (0.18)
Caprolactam	NS	ND (0.41)	ND (0.41)	ND (0.42)	ND (0.45)	ND (0.44)
Chrysene	NS	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.18)	ND (0.18)
2,6-Dinitrotoluene	5	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.28)	ND (0.27)
3,3'-Dichlorobenzidine	5	ND (0.56)	ND (0.56)	ND (0.58)	ND (0.62)	ND (0.60)
1,4-Dioxane	NS	ND (0.72)	ND (0.72)	ND (0.74)	ND (0.79)	ND (0.77)
Dibenzo(a,h)anthracene	NS	ND (0.28)	ND (0.28)	ND (0.29)	ND (0.31)	ND (0.30)
Dibenzofuran	NS	ND (0.23)	ND (0.23)	ND (0.24)	ND (0.25)	ND (0.25)
Di-n-butyl phthalate	50	1.4 JB	ND (0.58)	1.4 JB	1.4 JB	ND (0.62)
Di-n-octyl phthalate	NS	ND (0.25)	ND (0.25)	ND (0.26)	ND (0.28)	ND (0.27)
Diethyl phthalate	NS	ND (0.23)	ND (0.23)	ND (0.24)	ND (0.26)	ND (0.25)
Dimethyl phthalate	NS	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.29)	ND (0.28)
bis(2-Ethylhexyl)phthalate	5	ND (0.55)	ND (0.55)	1.2 J	ND (0.62)	ND (0.60)
Fluoranthene	NS	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.18)	ND (0.17)
Fluorene	NS	ND (0.27)	ND (0.27)	ND (0.28)	ND (0.30)	ND (0.29)
Hexachlorobenzene	0.04	ND (0.46)	ND (0.46)	ND (0.48)	ND (0.51)	ND (0.49)
Hexachloroethane	5	ND (0.29)	ND (0.29)	ND (0.30)	ND (0.32)	ND (0.31)
Indeno(1,2,3-cd)pyrene	NS	ND (0.40)	ND (0.40)	ND (0.42)	ND (0.45)	ND (0.43)
Isophorone	NS	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.38)	ND (0.36)
2-Methylnaphthalene	NS	ND (0.29)	ND (0.29)	ND (0.30)	ND (0.32)	ND (0.31)
2-Nitroaniline	5	ND (0.32)	ND (0.32)	ND (0.33)	ND (0.35)	ND (0.34)
3-Nitroaniline	5	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.29)	ND (0.28)
4-Nitroaniline	5	ND (0.30)	ND (0.30)	ND (0.31)	ND (0.33)	ND (0.32)
Naphthalene	NS	ND (0.27)	0.59 J	ND (0.28)	1.9	ND (0.28)
Nitrobenzene	0.4	ND (0.52)	ND (0.52)	ND (0.54)	ND (0.58)	ND (0.56)
Phenanthrene	NS	ND (0.19)	0.47 J	ND (0.19)	0.83 J	ND (0.20)
Pyrene	NS	ND (0.19)	ND (0.19)	ND (0.20)	ND (0.21)	ND (0.21)
1,2,4,5-Tetrachlorobenzene	5	ND (0.44)	ND (0.44)	ND (0.46)	ND (0.49)	ND (0.48)

Notes:
NS - No Standard
NA - Not Analyzed
ND - Not Detected at the Indicated Concentration
J - Reported concentration is approximate
NY TOGS - New York Technical and Operational Guidance Series
GREY - Concentration exceeds a NY Groundwater Standard

Table 8: Groundwater Remedial Investigation Analytical Results - Pesticides and PCBs
430-434 Van Brunt Street
Brooklyn, New York
PT Project No: 12090-03

Sample ID	NY TOGS Class GA GW Standards (NYSDEC 6/2004)	TW-1	TW-2	TW-3	TW2-DUP	FB
Lab ID		JB94209-13	JB94209-14	JB94209-15	JB94209-16	JB94209-17
Area of Concern		5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015
Sample Date		Ground Water	Ground Water	Ground Water	Ground Water	Field Blank Water
GC Semi-volatiles (SW846 8081B) (ug/L)						
Aldrin	NS	ND (0.0028)	ND (0.0028)	ND (0.0028)	ND (0.0028)	ND (0.0028)
alpha-BHC	0.01	ND (0.0043)	ND (0.0043)	ND (0.0043)	ND (0.0043)	ND (0.0043)
beta-BHC	0.04	ND (0.0057)	ND (0.0057)	ND (0.0057)	ND (0.0057)	ND (0.0057)
delta-BHC	0.04	ND (0.0043)	ND (0.0043)	ND (0.0043)	ND (0.0043)	ND (0.0043)
gamma-BHC (Lindane)	0.05	ND (0.0035)	ND (0.0035)	ND (0.0035)	ND (0.0035)	ND (0.0035)
alpha-Chlordane	NS	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)
gamma-Chlordane	NS	ND (0.0033)	ND (0.0033)	ND (0.0033)	ND (0.0033)	ND (0.0033)
Dieldrin	0.004	ND (0.0033)	ND (0.0033)	ND (0.0033)	ND (0.0033)	ND (0.0033)
4,4'-DDD	0.3	ND (0.0043)	ND (0.0043)	ND (0.0043)	ND (0.0043)	ND (0.0043)
4,4'-DDE	0.2	ND (0.0041)	ND (0.0041)	ND (0.0041)	ND (0.0041)	ND (0.0041)
4,4'-DDT	0.2	ND (0.0034)	ND (0.0034)	ND (0.0034)	ND (0.0034)	ND (0.0034)
Endrin	NS	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)
Endosulfan sulfate	NS	ND (0.0048)	ND (0.0048)	ND (0.0048)	ND (0.0048)	ND (0.0048)
Endrin aldehyde	5	ND (0.0049)	ND (0.0049)	ND (0.0049)	ND (0.0049)	ND (0.0049)
Endrin ketone	5	ND (0.0031)	ND (0.0031)	ND (0.0031)	ND (0.0031)	ND (0.0031)
Endosulfan-I	NS	ND (0.0042)	ND (0.0042)	ND (0.0042)	ND (0.0042)	ND (0.0042)
Endosulfan-II	NS	ND (0.0044)	ND (0.0044)	ND (0.0044)	ND (0.0044)	ND (0.0044)
Heptachlor	0.04	ND (0.0033)	ND (0.0033)	ND (0.0033)	ND (0.0033)	ND (0.0033)
Heptachlor epoxide	0.03	ND (0.0054)	ND (0.0054)	ND (0.0054)	ND (0.0054)	ND (0.0054)
Methoxychlor	35	ND (0.0048)	ND (0.0048)	ND (0.0048)	ND (0.0048)	ND (0.0048)
Toxaphene	0.06	ND (0.099)	ND (0.099)	ND (0.099)	ND (0.099)	ND (0.099)
GC Semi-volatiles (SW846 8082A) (ug/L)						
Aroclor 1016	0.09	ND (0.085)	ND (0.085)	ND (0.085)	ND (0.085)	ND (0.085)
Aroclor 1221	0.09	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)
Aroclor 1232	0.09	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)
Aroclor 1242	0.09	ND (0.057)	ND (0.057)	ND (0.057)	ND (0.057)	ND (0.057)
Aroclor 1248	0.09	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)
Aroclor 1254	0.09	ND (0.094)	ND (0.094)	ND (0.094)	ND (0.094)	ND (0.094)
Aroclor 1260	0.09	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Aroclor 1268	0.09	ND (0.087)	ND (0.087)	ND (0.087)	ND (0.087)	ND (0.087)
Aroclor 1262	0.09	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)

Notes:
NS - No Standard
NA - Not Analyzed
ND - Not Detected at the Indicated Concentration
a - More than 40 % RPD for detected concentrations between the two GC columns
J - Reported concentration is approximate
PCBs - Polychlorinated Biphenyls
NY TOGS - New York Technical and Operational Guidance Series
GREY - Concentration exceeds a NY Groundwater Standard

Table 9: Groundwater Remedial Investigation Analytical Results - Total Metals
430-434 Van Brunt Street
Brooklyn, New York
PT Project No: 12090-03

Sample ID	NY TOGS Class GA GW Standards (NYSDEC 6/2004)	TW-1	TW-2	TW-3	TW2-DUP	FB
Lab ID		JB94209-13	JB94209-14	JB94209-15	JB94209-16	JB94209-17
Area of Concern		5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015
Sample Date		Ground Water	Ground Water	Ground Water	Ground Water	Field Blank Water
Metals Analysis (ug/L)						
Aluminum	NS	536	2860	714	2730	<200
Antimony	3	<6.0	<6.0	<6.0	<6.0	<6.0
Arsenic	25	<3.0	<3.0	<3.0	<3.0	<3.0
Barium	1,000	<200	<200	<200	<200	<200
Beryllium	NS	<1.0	<1.0	<1.0	<1.0	<1.0
Cadmium	5	<3.0	<3.0	<3.0	<3.0	<3.0
Calcium	NS	81500	21800	117000	22300	<5000
Chromium	50	<10	<10	<10	<10	<10
Cobalt	NS	<50	<50	<50	<50	<50
Copper	200	<10	14.5	<10	<10	<10
Iron	300	**974**	**6160**	**1380**	**5710**	<100
Lead	25	<3.0	6.5	4.3	5.8	<3.0
Magnesium	NS	25300	5570	22900	5700	<5000
Manganese	300	246	162	**399**	155	<15
Mercury	1	<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	100	34	12.4	51	11.6	<10
Potassium	NS	15100	<10000	25100	10300	<10000
Selenium	10	**10.6**	<10	<10	<10	<10
Silver	50	<10	<10	11.6	<10	<10
Sodium	20,000	**497000**	**41600**	**546000**	**43000**	<10000
Thallium	NS	<2.0	<2.0	<2.0	<2.0	<2.0
Vanadium	NS	<50	<50	<50	<50	<50
Zinc	NS	108	20.1	20.7	25.2	<20

Notes:
NS - No Standard
NA - Not Analyzed
ND - Not Detected at the Indicated Concentration
J - Reported concentration is approximate
NY TOGS - New York Technical and Operational Guidance Series
GREY - Concentration exceeds a NY Groundwater Standard

Table 10: Groundwater Remedial Investigation Analytical Results - Filtered Metals
430-434 Van Brunt Street
Brooklyn, New York
PT Project No: 12090-03

Sample ID	**NY TOGS Class GA GW Standards (NYSDEC 6/2004)**	TW-1	TW-2	TW-3	TW2-DUP	FB
Lab ID		JB94209-17FR	JB94209-13FR	JB94209-14FR	JB94209-15FR	JB94209-16FR
Area of Concern		5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015
Sample Date		Filtered Ground Water	Filtered Ground Water	Filtered Ground Water	Filtered Ground Water	Filtered Field Blank Water
Metals Analysis (ug/L)						
Aluminum	NS	759	2160	483	1750	<200
Arsenic	25	<3.0	4.2	3.2	3.2	<3.0
Calcium	NS	87500	23300	94100	20400	<5000
Iron	300	**1160**	**5600**	**1160**	**4560**	<100
Lead	25	<3.0	7.7	3.6	5.5	<3.0
Magnesium	NS	27200	5700	18400	5000	<5000
Manganese	300	266	163	**322**	135	<15
Nickel	100	35.6	11.9	40.3	<10	<10
Potassium	NS	16400	<10000	19800	<10000	<10000
Sodium	20,000	**517000**	**43700**	**440000**	**39000**	<10000
Zinc	NS	116	24.5	<20	24.3	<20

Notes:
NS - No Standard
NA - Not Analyzed
ND - Not Detected at the Indicated Concentration
J - Reported concentration is approximate
NY TOGS - New York Technical and Operational Guidance Series
GREY - Concentration exceeds a NY Groundwater Standard

Table 11: Soil Vapor Remedial Investigation Analytical Results - TO+15
430-434 Van Brunt Street
Brooklyn, New York
PT Project No: 12090-03

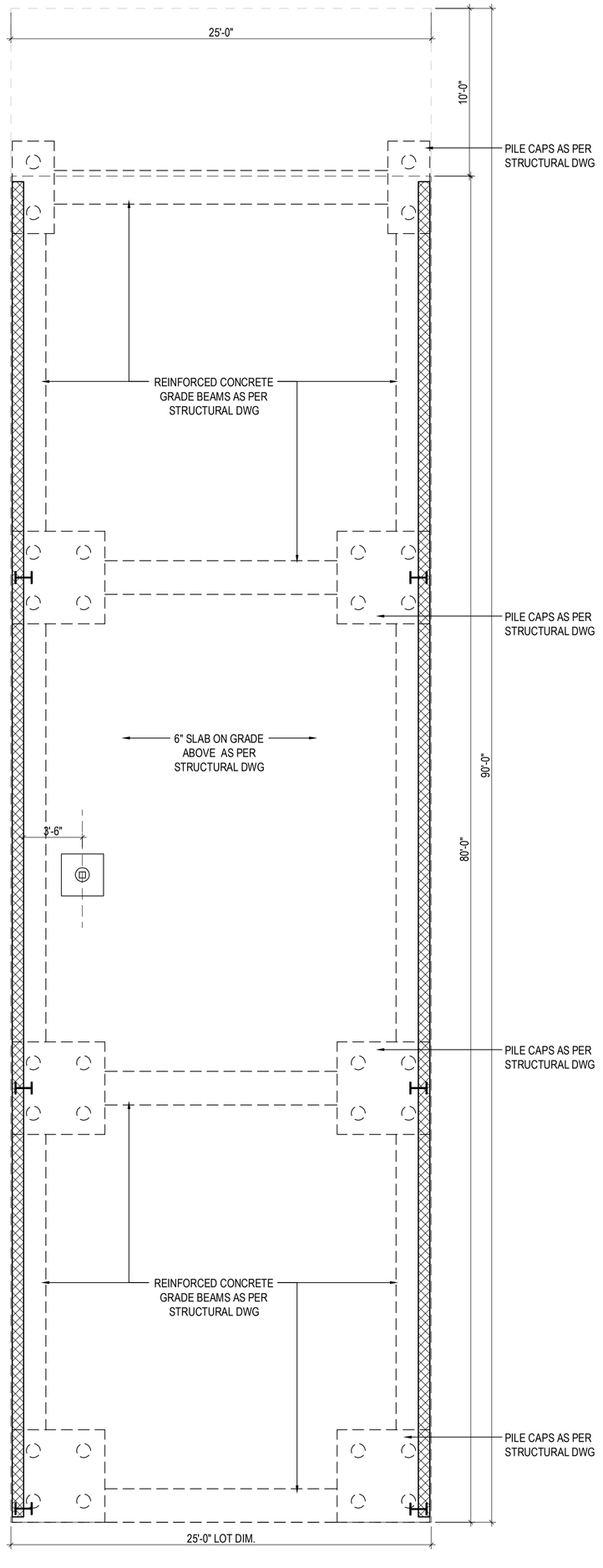
Sample ID	Air Guideline Values Derived By the NYSDOH	US EPA Target Shallow Soil Gas Concentrations	SV-1	SV-2	SV-3	SV-4	SV-5
Lab ID			JB94203-1	JB94203-2	JB94203-3	JB94203-4	JB94203-5
Area of Concern			5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015
Sample Date			Soil Vapor Comp.	Soil Vapor Comp.	Soil Vapor Comp.	Soil Vapor Comp.	Soil Vapor Comp.
GC/MS Volatiles (TO-15) - ug/m^3							
Acetone	NS	3,500	420 E [a]	618	1690	2310	893
1,3-Butadiene	NS	8.7	ND (0.27)	**30.3**	ND (0.27)	3.3	ND (0.27)
Benzene	NS	310	9.9	6.4	4.8	4.5	13
Bromodichloromethane	NS	140	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)
Benzyl Chloride	NS	50	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
Carbon disulfide	NS	7,000	27	16	38.9	22	70.1
Chloroethane	NS	10,000	1.1 J	ND (0.23)	ND (0.23)	ND (0.23)	12
Chloroform	NS	110	1.9 J	65.4	6.3	ND (0.59)	10
Chloromethane	NS	NS	1.2 J	1.0 J	0.78 J	1.5 J	1.7
Cyclohexane	NS	NS	9.6	3.4	5.5	2.0 J	132
1,1-Dichloroethane	NS	5,000	20	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)
1,2-Dibromoethane	NS	2	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)
1,2-Dichloroethane	NS	94	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)
1,2-Dichloropropane	NS	40	ND (0.92)	2.3 J	ND (0.92)	ND (0.92)	5.5
Dichlorodifluoromethane	NS	2,000	6.4	7.9	3.4 J	34	6.4
Dibromochloromethane	NS	100	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)
cis-1,2-Dichloroethylene	NS	350	8.3	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)
cis-1,3-Dichloropropene	NS	200	ND (0.64)	ND (0.64)	ND (0.64)	ND (0.64)	ND (0.64)
trans-1,3-Dichloropropene	NS	200	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)
Ethanol	NS	8,700	15	8.1	16	33.5	27.3
Ethylbenzene	NS	2,200	14	13	20	15	12
Ethyl Acetate	NS	32,000	6.8	5	2.7 J	9	ND (0.90)
4-Ethyltoluene	NS	NS	3.8 J	11	17	12	6.9
Freon 113	NS	300,000	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.84)
Freon 114	NS	NS	ND (0.70)	ND (0.70)	ND (0.70)	3.5 J	ND (0.70)
Heptane	NS	NS	23	8.2	10	7.8	82.8
Hexachlorobutadiene	NS	110	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)
Hexane	NS	2,000	51.1	13	16	7.8	309
2-Hexanone	NS	NS	ND (0.74)	ND (0.74)	4.5	6.5	3.8
Isopropyl Alcohol	NS	NS	6.4	ND (1.2)	5.7	11	ND (1.2)
Methylene chloride	60	5,200	13	ND (1.9)	9	2.7 J	ND (1.9)
Methyl ethyl ketone	NS	10,000	13	11	31.9	42.5	25
Methyl Isobutyl Ketone	NS	800	ND (0.45)	2.8 J	ND (0.45)	ND (0.45)	ND (0.45)
Methyl Tert Butyl Ether	NS	30,000	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)
Propylene	NS	NS	75.4	179	114	36.9	733
Styrene	NS	10,000	6.8	16	22	15	10
1,1,1-Trichloroethane	NS	22,000	27	60.6	ND (0.71)	ND (0.71)	ND (0.71)
1,2,4-Trimethylbenzene	NS	60	9.8	49	**80.1**	52.1	31
1,3,5-Trimethylbenzene	NS	60	4.7	12	21	13	7.9
2,2,4-Trimethylpentane	NS	NS	3.9	3.3 J	5.6	10	645
Tertiary Butyl Alcohol	NS	NS	9.7	5.2	7.6	15	3.3
Tetrachloroethylene	100	810	6.8	5	ND (0.64)	2.3	ND (0.64)
Tetrahydrofuran	NS	NS	ND (0.50)	ND (0.50)	17	ND (0.50)	ND (0.50)
Toluene	NS	4,000	139	41.8	50.5	38.4	35
Trichloroethylene	5	220	**7**	1.8	ND (0.54)	ND (0.54)	0.81 J
Trichlorofluoromethane	NS	7,000	ND (0.46)	ND (0.46)	2.3 J	ND (0.46)	ND (0.46)
Vinyl chloride	NS	280	2.1	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)
m,p-Xylene	NS	70,000	59.5	65.2	99.5	71.2	50
o-Xylene	NS	70,000	22	29	46	33	24
Xylenes (total)	NS	70,000	82.1	93.8	146	104	74.3

Notes:
NS - No Standard
NA - Not Analyzed
ND - Not Detected at the Indicated Concentration
a - Estimated value; Summa unavailable for further dilution due to summa accidentally cleaned.
J - Reported concentration is approximate
TO-15 - Compendium Method TO-15 for the Determination of Toxic Organic Compounds in Ambient Air
NYSDOH - New York State Department of Health
BOLD - Concentration exceeds Air Guideline Values Derived By the NYSDOH
GREY - Concentration exceeds US EPA Target Shallow Soil Gas Concentrations

APPENDICES

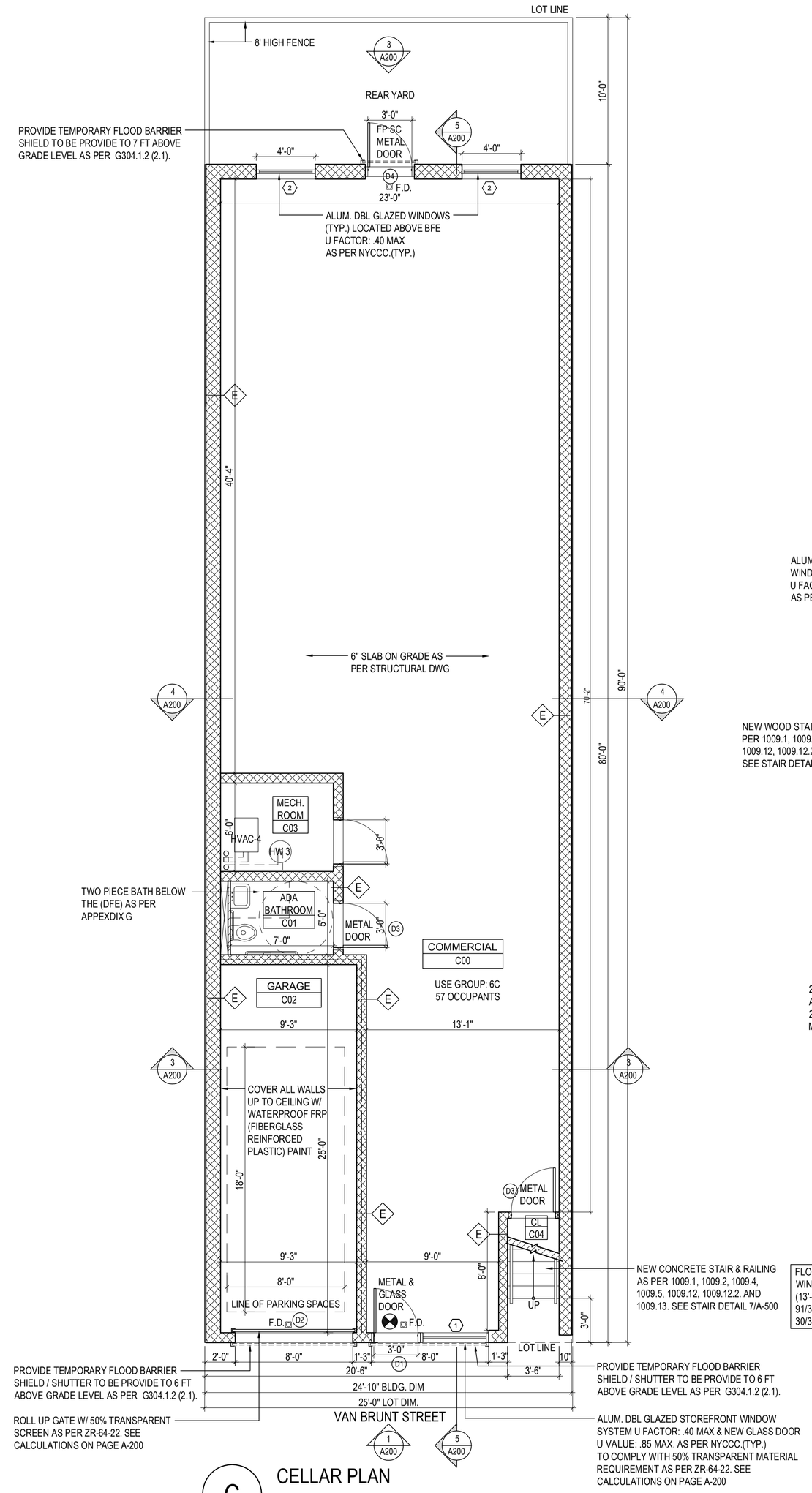
APPENDIX 1

PROPOSED BUILDING LAYOUTS



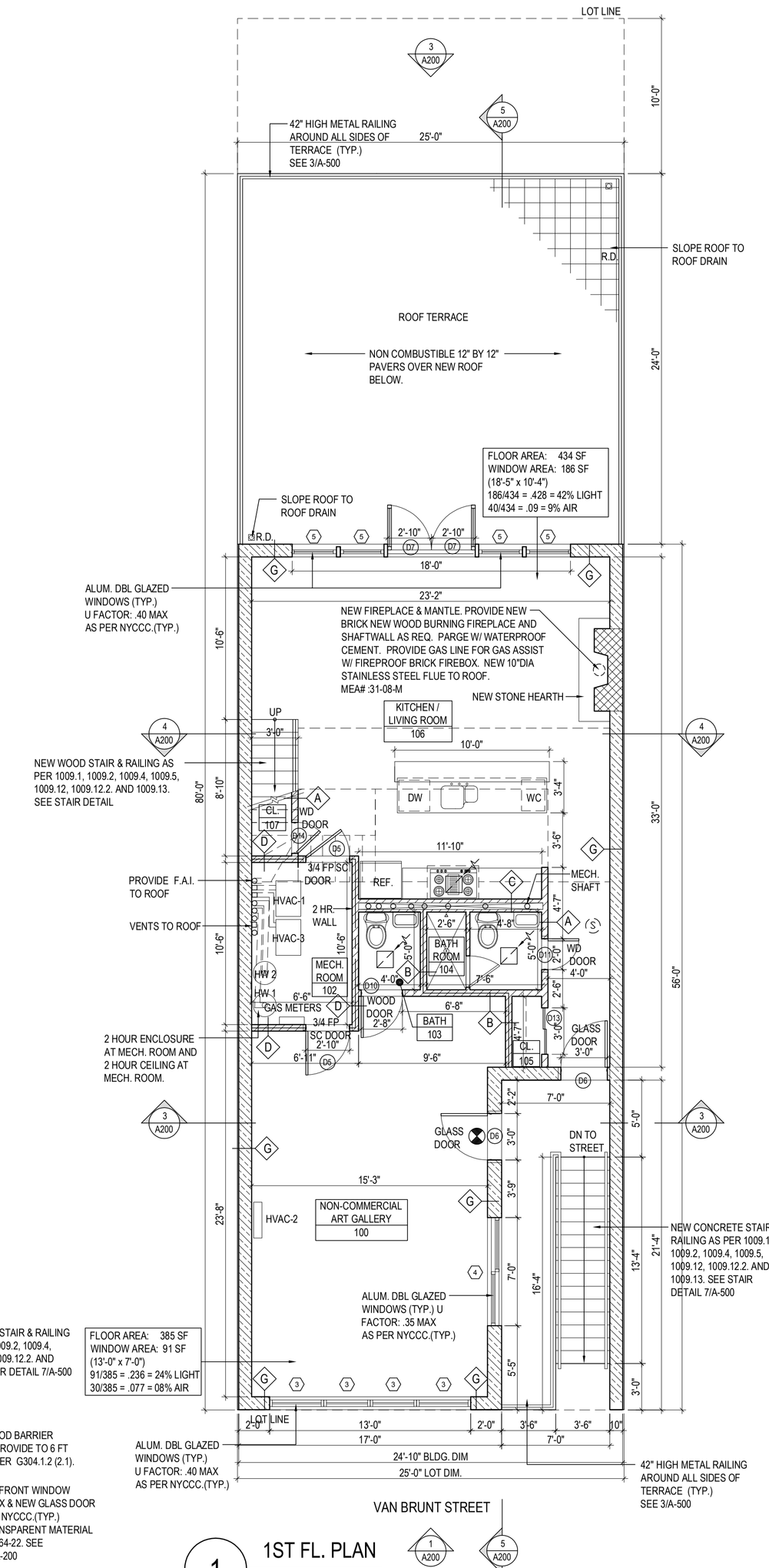
F FOUNDATION PLAN

SCALE: 3/16" = 1'-0"



C CELLAR PLAN

SCALE: 3/16" = 1'-0"



1 1ST FL. PLAN

SCALE: 3/16" = 1'-0"

LEGEND:

- NEW EXTERIOR PARTITION SEE WALL TYPE A-600.00
- NEW INTERIOR PARTITION SEE WALL TYPE A-600.00
- NEW MASONRY PARTITION SEE WALL TYPE A-600.00
- FIRE SEPARATION PARTITION SEE WALL TYPE A-600.00
- SECTION
- ELEVATION
- DETAIL
- WALL TYPE
- CARBON MONOXIDE/ SMOKE DETECTOR
- EXHAUST VENT
- FLOOR OR AREA OR YARD DRAIN
- PROGRAMMABLE THERMOSTAT
- 1ST FL. ELEV. 9'-0" ELEVATION MARKS
- EXIT SIGN

NOTES:

1. MAINTAIN 1 HR FIRE RATING AT ALL PARTITIONS & CEILING BETWEEN ALL TENANT SPACES.
2. INSTALL SMOKE/C.M. DETECTORS AS PER NYC BLDG. CODE. SMOKE/C.M. DETECTORS TO BE INTERCONNECTED SO THAT ONE WILL ACTIVATE ALL DETECTORS IN DWELLING UNITS.
3. INSTALL NEW 5/ 8" GYP. BD. AT NEW PARTITION LOCATIONS AND AT NEW CEILINGS.
4. ALL BATH AND KITCHEN AREAS TO HAVE MILDEW RESISTANT GYP. BD.
5. WET FLOOD PROOFING:
   - 5.1. ALL ENCLOSED SPACES BELOW THE (DFE) DESIGN FLOOD ELEVATION ARE TO BE USABLE SOLELY FOR PARKING, BUILDING ACCESS, STORAGE, OR CRAWLSPACE AND SHALL BE WET FLOODPROOFED IN ACCORDANCE WITH ASCE 24.
   - 5.2. ONLY FLOOD-DAMAGE-RESISTANT MATERIALS AND FINISHES SHALL BE UTILIZED BELOW THE DESIGN FLOOD ELEVATION.
   - 5.3. UTILITIES AND ATTENDANT EQUIPMENT SHALL BE LOCATED AT OR ABOVE THE DESIGN FLOOD ELEVATION, OR SHALL BE CONSTRUCTED SO AS TO PREVENT WATER FROM ENTERING OR ACCUMULATING WITHIN THE COMPONENTS DURING CONDITIONS OF FLOODING IN ACCORDANCE WITH ASCE 24.
6. DRY FLOOD PROOFING:
   - 6.1. PROVIDED IN NON- RESIDENTIAL FLOOR LEVEL OF BUILDING ONLY.
   - 6.3. ALL WALLS BELOW A HEIGHT OF 9FT ABOVE GRADE (DFE) NEED TO BE A CONTINUOUS IMPERMEABLE WALL, TEMPORARY FLOOD SHIELD TO COVER ALL OPENINGS. THE CONTINUOUS IMPERMEABLE WALL TO HAVE A WATERPROOFING MEMBRANE ON THAT SEAL THE WALL ON ALL SIDES.
   - 6.4. TEMPORARY FLOOD SHIELD TO COVER ALL OPENINGS FROM GRADE TO A HEIGHT OF 9FT ABOVE GRADE (DFE) AS PER ASCE-24.
   - 6.5. ARCHITECT TO INSPECT AND APPROVE THE LOCATION, INSTALLATION AND METHOD OF STORAGE FOR ALL TEMPORARY FLOOD SHIELD AS PER BC G105.3.
   - 6.6. PROVIDE FLOOR DRAINS AT BASE OF FLOOD SHIELD.
7. ALL NEW WINDOWS TO BE ALUM. DBL GLAZED WITH A U-FACTOR OF 0.35 MIN AS PER NYCCC.(TYP.)

SPECIAL RED HOOK MIXED USE DISTRICT NOTES:

1. LOCATION OF USE IN MIXED USE BUILDING *(ZR: 123-31)*
   - 1.1. NON-RESIDENTIAL USE CAN BE LOCATED ON A PORTION OF THE SAME STORY AS RESIDENTIAL USE. IF THE NON-RESIDENTIALUSE IS ONE STORY BELOW THE LOWEST STORY OCCUPIED BY DWELLING UNITS.
2. ENVIRONMENTAL CONDITIONS *(ZR: 123-32)*
   - 2.1. DWELLING UNITS SHALL BE PROVIDED WITH A MINIMUM 35 DECIBELS OF WINDOWS WALL ATTENUATION TO MAINTAIN AN INTERIOR NOISE LEVEL OF 46 DECIBELS OR LESS, WITH WINDOWS CLOSED, AND SHALL PROVIDE AN ALTERNATE MEANS OF VENTILATION.

MECHANICAL EQUIPMENT SCHEDULE

HVAC-1, HVAC-3	GOLD SV GAS FURNACE MODEL NO: AUD2C100A9V5VA, 80 AFUE GOLD XI AIR CONDITIONER 5 TON, 16 SEER MODEL NO: 4A7A5060 S/N: TBD, NATE, AHRI & CSA CERTIFIED
HVAC-2,	MITSUBISHI AIR HANDLER MODEL NO: MSY-GE12NA,12,000 BTU MITSUBISHI CONDENSING UNIT 1 TON, 20.5 SEER MODEL NO: MUY-GE12NA S/N: TBD, ARI & ETL LISTED
HVAC-4	GOLD SV GAS FURNACE MODEL NO: AUD2B80A9V3VB, 80 AFUE GOLD XI AIR CONDITIONER 3 TON, 17 SEER MODEL NO: 4A7A5048 S/N: TBD, NATE, AHRI & CSA CERTIFIED
HWH -1, HWH -2	AO SMITH PROMAX MODEL NO: PCG-75, 75 GALLONS ENERGY FACTOR: 80% GAS, 75,000 BTU/HR MEA NO.: 346-06-E
HWH -3	AO SMITH PROMAX MODEL NO: EJCS-20, 25 GALLONS ENERGY FACTOR: N/A ELECTRIC, 2,500 W MEA NO.: 25-05-E
BATH EXHAUST	PANNASONIC EXHAUST VENT MODEL NO: FV-07VBA1

EXIT ACCESS TRAVEL DISTANCE 2014 CODE AS PER BC 1016.1

	MAXIMUM TRAVEL DISTANCE:	ACTUAL TRAVEL DISTANCE:	
GROUP 6C (COMMERCIAL USE)			
GROUND FL.:	200'-0" (SPRINKLERED)	78 = (48 FT + 30 FT)	78 FT < 200 FT COMPLIES
GROUP 3 (COMMUNITY FACILITY)			
1ST FL:	200'-0" (SPRINKLERED)	21 FT	21 FT < 200 FT COMPLIES
GROUP 2 (RESIDENTIAL)			
1ST FL:	200'-0" (SPRINKLERED)	42 FT= (21 FT + 21 FT)	42 FT < 200 FT COMPLIES
2ND FL:		38 FT	38 FT < 200 FT COMPLIES
3RD FL:		21 FT = (6 FT + 15 FT)	21 FT < 200 FT COMPLIES
4TH FL:		22 FT	22 FT < 200 FT COMPLIES

OCCUPANCY LOAD ANALYSIS: 2014 CODE AS PER 1004.1.1

OCCUPANCY GROUP:	GROUP 6C	GROUP 3	GROUP 2 (R-5)
MINIMUM FL. AREA PER OCCUPANT:	30 SF PER OCCUPANT	60 SF PER OCCUPANT	200 SF PER OCCUPANT IN DWELLING UNIT
	COMMERCIAL USE	NON-COMMERCIAL ART GALLERY	DWELLING UNIT (3RD FL. & 4TH FL.)
GROSS FL. AREA OF	1,705 SF	504 SF	2,878 SF
MAXIMUM NUMBER OF OCCUPANTS:	1,705 SF / 30 = 57 OCCUPANTS	504 SF / 60 = 8 OCCUPANTS	2,878 SF / 200 = 14 OCCUPANTS
PROPOSED NUMBER OF OCCUPANTS:	57 OCCUPANTS	8 OCCUPANTS	5 OCCUPANTS

EXIT LOAD: AS PER BC 1014 (TABLE 1014.1)

MAXIMUM OCCUPANT LOAD:	74 MAX PER DOOR	74 MAX PER DOOR	20 MAX PER DOOR
PROPOSED ONE 36" EXIT PER USE:	57 OCCUPANTS < 74 FOR 1 DOOR	8 OCCUPANTS < 74 FOR 1 DOOR	5 OCCUPANTS < 20 FOR 1 DOOR

Eric Safyan / Architect P.C.
540 President Street / 3rd Fl
Brooklyn NY 11215
tel 718 938 8806
fax 718 596 4697
es-architect.com

No.	Description	Date
	OWNER REVIEW	03.16.15
	OWNER REVIEW	12.16.14

Revisions:

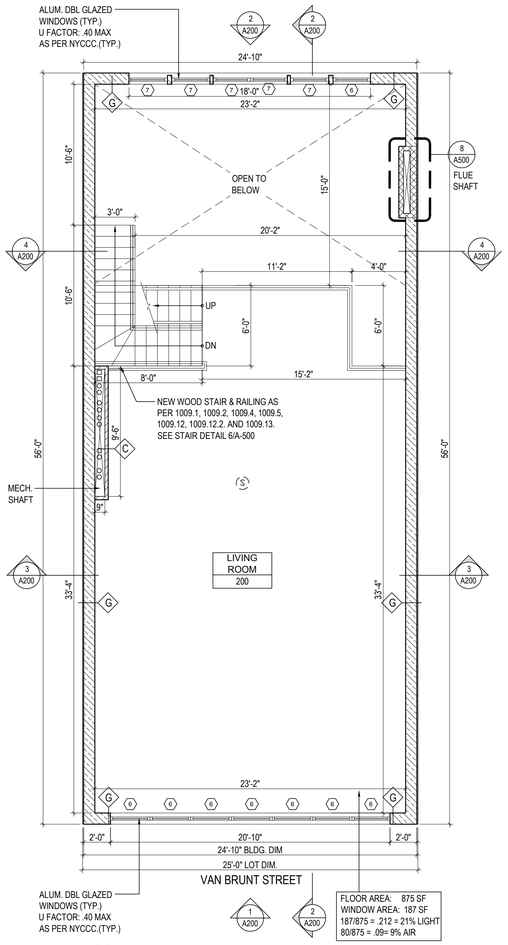
Project:
430 Van Brunt St
Brooklyn, NY 11231

Sheet Title:
CELLAR PLAN, 1ST FLOOR PLAN, & 2ND FLOOR PLAN

Job No.: 014-03.00
Scale: AS SHOWN
Drawn: ES, KK
Date: 12.15.14

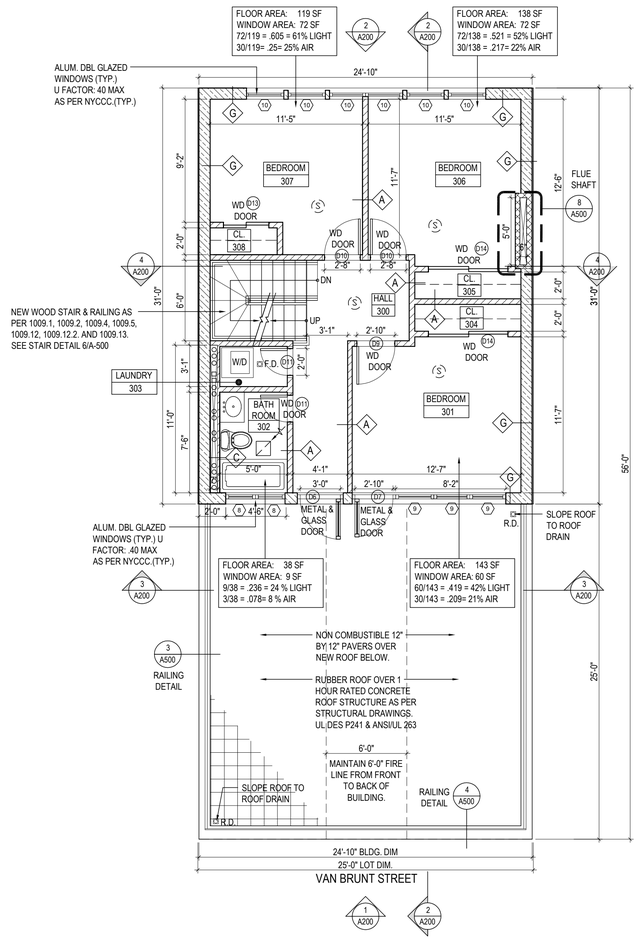
Job Label:

Drawing No.:
A-100.00



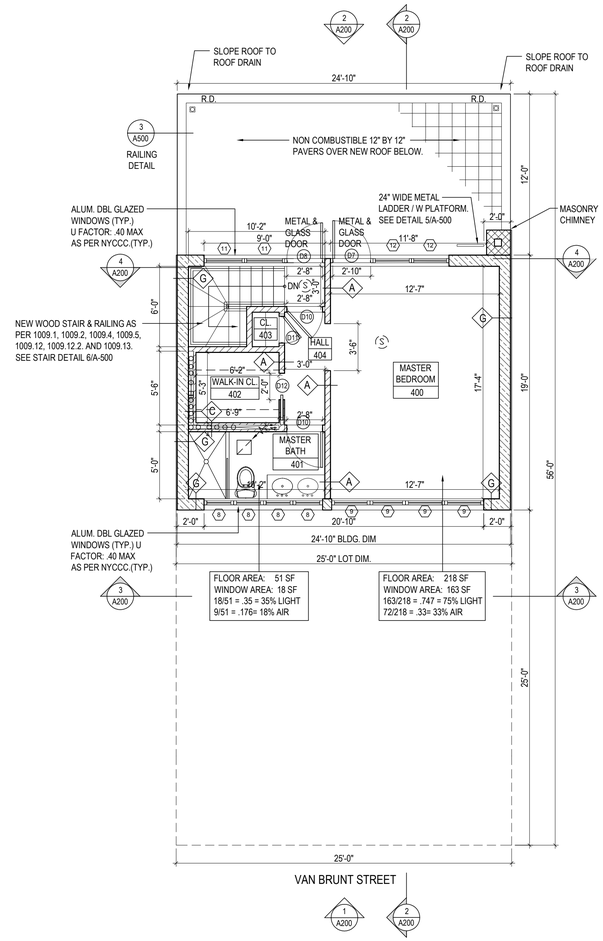
2 2ND FLOOR PLAN

SCALE: 3/16" = 1'-0"



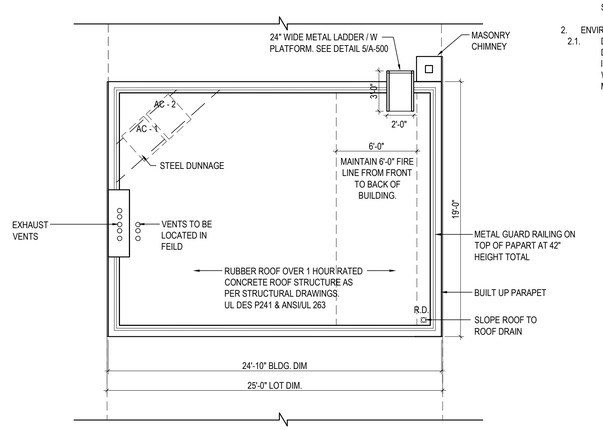
3 3RD FLOOR PLAN

SCALE: 3/16" = 1'-0"



4 4TH FLOOR PLAN

SCALE: 3/16" = 1'-0"



5 ROOF PLAN

SCALE: 3/16" = 1'-0"

DOOR SCHEDULE

WIN. NO.	SIZE W X H	TYPE	MATERIAL	QUANTITY	FIRE RATING	U FACTOR	REMARKS
01	3'-0" X 7'-0"	STOREFRONT	ALUM. / GLASS	1	N/A	.40	.40 MIN U FACTOR AS PER NYCECC, DOOR AS PART OF ASSEMBLY SEE DOOR TYP 1
02	8'-0" X 9'-0"	ROLL UP GATE SCREEN	METAL	2	N/A	N/A	ROLL UP GATE W/ 50% TRANSPARENT SCREEN AS PER ZR-64-22.
03	3'-0" X 7'-0"	FLUSH HOLLOW CORE	METAL	2	N/A	N/A	
04	3'-0" X 7'-0"	FLUSH SOLID CORE	METAL	1	3/4	N/A	FIRE PROOF SELF CLOSING
05	2'-10" X 7'-0"	FLUSH SOLID CORE	METAL	2	3/4	N/A	FIRE PROOF SELF CLOSING
06	3'-0" X 7'-0"	GLASS	METAL & GLASS	3	N/A	.85	.85 MIN U FACTOR AS PER NYCECC
07	2'-10" X 7'-0"	GLASS	METAL & GLASS	4	N/A	.85	.85 MIN U FACTOR AS PER NYCECC
08	2'-8" X 7'-0"	GLASS	METAL & GLASS	2	N/A	.85	.85 MIN U FACTOR AS PER NYCECC
09	2'-10" X 7'-0"	FLUSH SOLID CORE	WOOD	1	N/A	N/A	
010	2'-8" X 7'-0"	FLUSH SOLID CORE	WOOD	5	N/A	N/A	
011	2'-0" X 7'-0"	FLUSH SOLID CORE	WOOD	5	N/A	N/A	
012	2'-0" X 7'-0"	POCKET FLUSH HOLLOW CORE	WOOD	1	N/A	N/A	
013	3'-6" X 7'-0"	DOUBLE SLIDING FLUSH HOLLOW CORE	WOOD	2	N/A	N/A	
014	5'-10" X 7'-0"	DOUBLE SLIDING FLUSH HOLLOW CORE	WOOD	2	N/A	N/A	

WINDOW SCHEDULE

WIN. NO.	SIZE W X H	WINDOW TYPE	MATERIAL	QUANTITY	GLAZING	U FACTOR	REMARKS
1	8'-0" X 9'-0"	STOREFRONT SYSTEM	ALUM.	1	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC, DOOR AS PART OF ASSEMBLY SEE DOOR TYP 1
2	4'-0" X 2'-6"	SLIDER	ALUM.	2	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC
3	3'-4" X 7'-0"	CASEMENT & PICTURE	ALUM.	4	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC
4	7'-0" X 7'-0"	SLIDER	ALUM.	1	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC
5	2'-10" X 10'-4"	PICTURE	ALUM.	4	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC
6	3'-0" X 9'-0"	CASEMENT & PICTURE	ALUM.	7	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC
7	2'-10" X 10'-0"	PICTURE	ALUM.	6	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC
8	2'-0" X 2'-2"	CASEMENT & PICTURE	ALUM.	6	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC
9	2'-8" X 5'-0"	CASEMENT & PICTURE	ALUM.	7	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC
10	2'-10" X 8'-0"	CASEMENT & PICTURE	ALUM.	6	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC
11	3'-0" X 9'-0"	PICTURE	ALUM.	2	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC
12	2'-10" X 9'-0"	PICTURE	ALUM.	2	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC

LEGEND:

- NEW EXTERIOR PARTITION SEE WALL TYPE A-600.00
- NEW INTERIOR PARTITION SEE WALL TYPE A-600.00
- NEW MASONRY PARTITION SEE WALL TYPE A-600.00
- FIRE SEPARATION PARTITION SEE WALL TYPE A-600.00
- SECTION
- ELEVATION
- DETAIL
- WALL TYPE
- CARBON MONOXIDE/ SMOKE DETECTOR
- EXHAUST VENT
- FLOOR OR AREA OR YARD DRAIN
- PROGRAMMABLE THERMOSTAT
- 1ST FL. ELEV. 9'-0" ELEVATION MARKS
- EXIT SIGN

NOTES:

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   - 6.6. PROVIDE FLOOR DRAINS AT BASE OF FLOOD SHIELD.
7. ALL NEW WINDOWS TO BE ALUM. DBL GLAZED WITH A U-FACTOR OF 0.35 MIN AS PER NYCCC.(TYP.)

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2. ENVIRONMENTAL CONDITIONS *(ZR: 123-32)*
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Eric Safyan / Architect P.C.
540 President Street / 3rd Fl
Brooklyn NY 11215
tel 718 938 8806
fax 718 596 4697
es-architect.com

No.	Description	Date
	OWNER REVIEW	03.16.15
	OWNER REVIEW	12.16.14

Revisions:

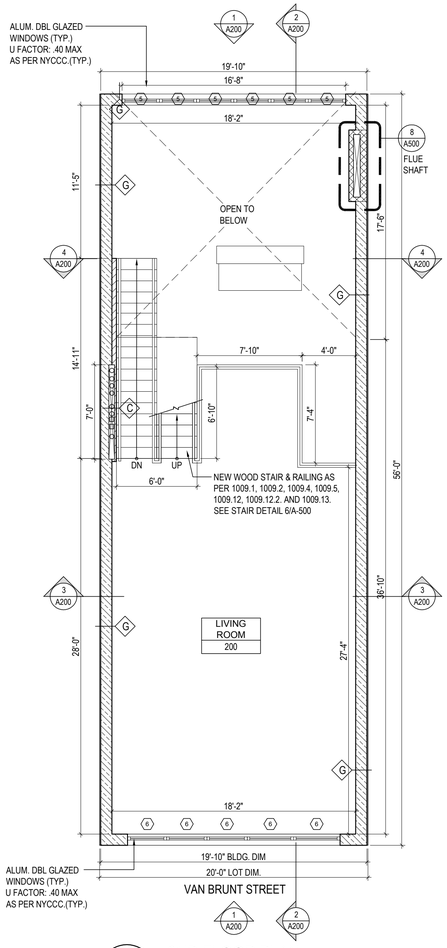
Project:
430 Van Brunt St
Brooklyn, NY 11231

Sheet Title:
3RD FLOOR PLAN, 4TH FLOOR PLAN, & 5TH FLOOR PLAN

Job No.: 014-03.00
Scale: AS SHOWN
Drawn: ES, KK
Date: 12.15.14

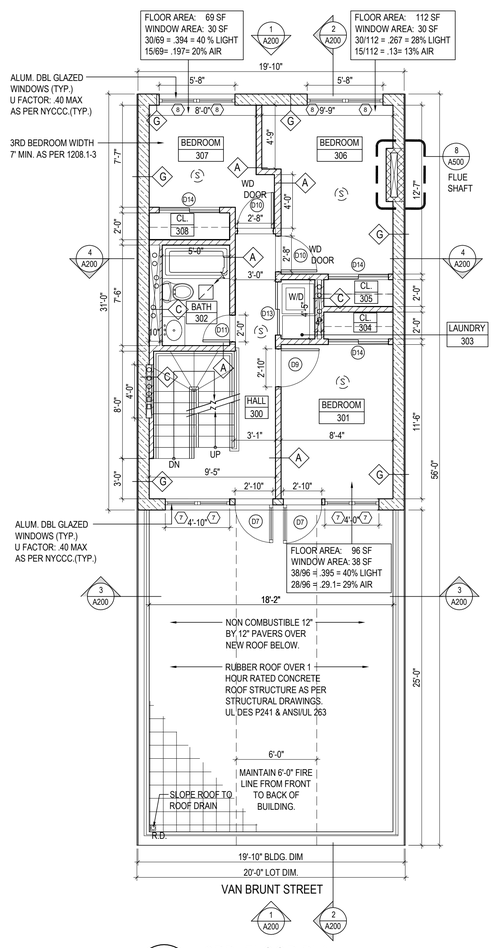
Job Label:

Drawing No.:
A-101.00



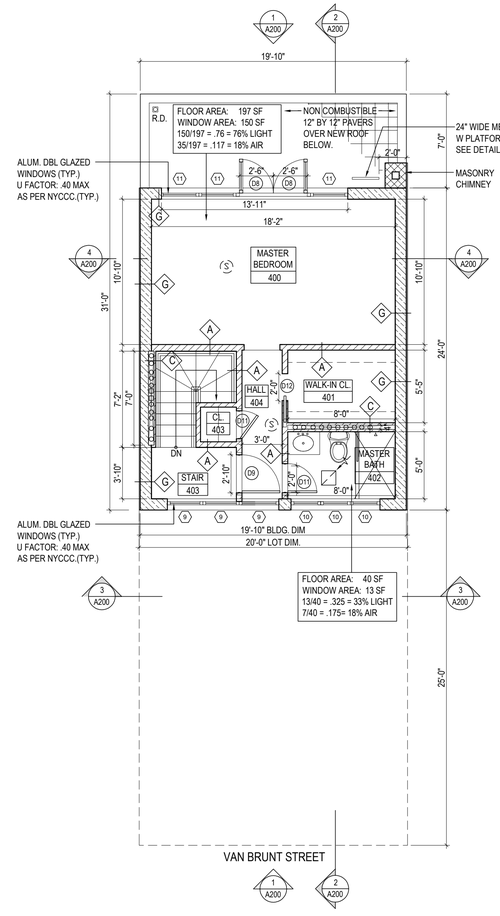
2 2ND FLOOR PLAN

SCALE: 3/16" = 1'-0"



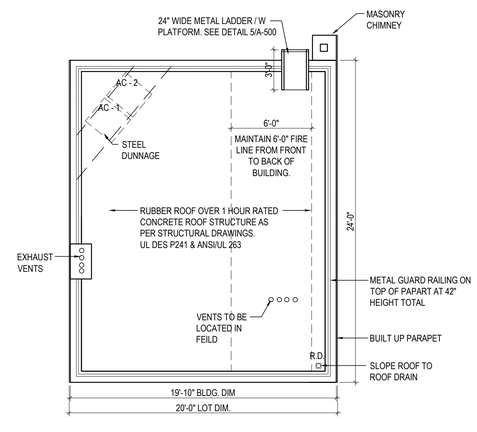
3 3RD FLOOR PLAN

SCALE: 3/16" = 1'-0"



4 4TH FLOOR PLAN

SCALE: 3/16" = 1'-0"



5 ROOF PLAN

SCALE: 3/16" = 1'-0"

DOOR SCHEDULE

WIN. NO.	SIZE W X H	TYPE	MATERIAL	QUANTITY	FIRE RATING	U FACTOR	REMARKS
01	3'-0" X 7'-0"	STOREFRONT	ALUM. / GLASS	1	N/A	N/A	.40 MIN U FACTOR AS PER NYCECC, DOOR AS PART OF ASSEMBLY SEE DOOR TYP 1
02	8'-0" X 9'-0"	ROLL UP GATE SCREEN	METAL	1	N/A	N/A	ROLL UP GATE W/ 50% TRANSPARENT SCREEN AS PER ZR-64-22.
03	8'-0" X 9'-0"	GARAGE DOOR	METAL	1	N/A	N/A	
04	3'-0" X 7'-0"	FLUSH HOLLOW CORE	METAL	1	N/A	N/A	
05	2'-10" X 7'-0"	FLUSH HOLLOW CORE	METAL	1	3/4	N/A	FIRE PROOF SELF CLOSING
06	3'-0" X 7'-0"	GLASS	METAL & GLASS	2	N/A	.85	.85 MIN U FACTOR AS PER NYCECC
07	2'-10" X 7'-0"	GLASS	METAL & GLASS	2	N/A	.85	.85 MIN U FACTOR AS PER NYCECC
08	2'-6" X 7'-0"	GLASS	METAL & GLASS	4	N/A	.85	.85 MIN U FACTOR AS PER NYCECC
09	2'-10" X 7'-0"	FLUSH SOLID CORE	WOOD	3	N/A	N/A	
010	2'-8" X 7'-0"	FLUSH SOLID CORE	WOOD	2	N/A	N/A	
011	2'-0" X 7'-0"	FLUSH SOLID CORE	WOOD	5	N/A	N/A	
012	2'-0" X 7'-0"	POCKET FLUSH HOLLOW CORE	WOOD	1	N/A	N/A	
013	4'-0" X 7'-0"	DOUBLE SLIDING FLUSH HOLLOW CORE	WOOD	3	N/A	N/A	
014	4'-6" X 7'-0"	DOUBLE SLIDING FLUSH HOLLOW CORE	WOOD	1	N/A	N/A	
015	1'-6" X 7'-0"	FLUSH SOLID CORE	WOOD	2	N/A	N/A	

WINDOW SCHEDULE

WIN. NO.	SIZE W X H	WINDOW TYPE	MATERIAL	QUANTITY	GLAZING	U FACTOR	REMARKS
1	4'-8" X 9'-0"	STOREFRONT SYSTEM	ALUM.	1	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC, DOOR AS PART OF ASSEMBLY SEE DOOR TYP 1
2	3'-0" X 2'-6"	SLIDER	ALUM.	2	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC
3	3'-0" X 7'-0"	CASEMENT & PICTURE	ALUM.	3	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC, DOOR AS PART OF ASSEMBLY SEE DOOR TYP 1
4	6'-0" X 7'-0"	SLIDER	ALUM.	1	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC
5	2'-10" X 10'-4"	PICTURE	ALUM.	9	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC
6	3'-0" X 9'-0"	CASEMENT & PICTURE	ALUM.	5	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC
7	2'-5" X 4'-6"	CASEMENT	ALUM.	7	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC
8	2'-10" X 5'-6"	CASEMENT	ALUM.	6	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC
9	2'-9" X 5'-0"	CASEMENT & PICTURE	ALUM.	3	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC
10	2'-0" X 2'-2"	CASEMENT & PICTURE	ALUM.	3	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC
11	2'-9" X 9'-0"	PICTURE	ALUM.	4	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC

LEGEND:

- NEW EXTERIOR PARTITION SEE WALL TYPE A-600.00
- NEW INTERIOR PARTITION SEE WALL TYPE A-600.00
- NEW MASONRY PARTITION SEE WALL TYPE A-600.00
- FIRE SEPARATION PARTITION SEE WALL TYPE A-600.00
- SECTION
- ELEVATION
- DETAIL
- WALL TYPE
- CARBON MONOXIDE/ SMOKE DETECTOR
- EXHAUST VENT
- FLOOR OR AREA OR YARD DRAIN
- PROGRAMMABLE THERMOSTAT
- 1ST FL. ELEV. 9'-0" — ELEVATION MARKS
- EXIT SIGN

NOTES:

1. MAINTAIN 1 HR FIRE RATING AT ALL PARTITIONS & CEILING BETWEEN ALL TENANT SPACES.
2. INSTALL SMOKE/C.M. DETECTORS AS PER NYC BLDG. CODE. SMOKE/C.M. DETECTORS TO BE INTERCONNECTED SO THAT ONE WILL ACTIVATE ALL DETECTORS IN DWELLING UNITS.
3. INSTALL NEW 5/ 8" GYP. BD. AT NEW PARTITION LOCATIONS AND AT NEW CEILINGS.
4. ALL BATH AND KITCHEN AREAS TO HAVE MILDEW RESISTANT GYP. BD.
5. WET FLOOD PROOFING:
   - 5.1. ALL ENCLOSED SPACES BELOW THE (DFE) DESIGN FLOOD ELEVATION ARE TO BE USABLE SOLELY FOR PARKING, BUILDING ACCESS, STORAGE, OR CRAWLSPACE AND SHALL BE WET FLOODPROOFED IN ACCORDANCE WITH ASCE 24.
   - 5.2. ONLY FLOOD-DAMAGE-RESISTANT MATERIALS AND FINISHES SHALL BE UTILIZED BELOW THE DESIGN FLOOD ELEVATION.
   - 5.3. UTILITIES AND ATTENDANT EQUIPMENT SHALL BE LOCATED AT OR ABOVE THE DESIGN FLOOD ELEVATION, OR SHALL BE CONSTRUCTED SO AS TO PREVENT WATER FROM ENTERING OR ACCUMULATING WITHIN THE COMPONENTS DURING CONDITIONS OF FLOODING IN ACCORDANCE WITH ASCE 24.
6. DRY FLOOD PROOFING:
   - 6.1. PROVIDED IN NON- RESIDENTIAL FLOOR LEVEL OF BUILDING ONLY.
   - 6.3. ALL WALLS BELOW A HEIGHT OF 9FT ABOVE GRADE (DFE) NEED TO BE A CONTINUOUS IMPERMEABLE WALL, TEMPORARY FLOOD SHIELD TO COVER ALL OPENINGS. THE CONTINUOUS IMPERMEABLE WALL TO HAVE A WATERPROOFING MEMBRANE ON THAT SEAL THE WALL ON ALL SIDES.
   - 6.4. TEMPORARY FLOOD SHIELD TO COVER ALL OPENINGS FROM GRADE TO A HEIGHT OF 9FT ABOVE GRADE (DFE) AS PER ASCE-24.
   - 6.5. ARCHITECT TO INSPECT AND APPROVE THE LOCATION, INSTALLATION AND METHOD OF STORAGE FOR ALL TEMPORARY FLOOD SHIELD AS PER BC G105.3.
   - 6.6. PROVIDE FLOOR DRAINS AT BASE OF FLOOD SHIELD.
7. ALL NEW WINDOWS TO BE ALUM. DBL GLAZED WITH A U-FACTOR OF 0.35 MIN AS PER NYCCC.(TYP.)

SPECIAL RED HOOK MIXED USE DISTRICT NOTES:

1. LOCATION OF USE IN MIXED USE BUILDING *(ZR: 123-31)*
   - 1.1. NON-RESIDENTIAL USE CAN BE LOCATED ON A PORTION OF THE SAME STORY AS RESIDENTIAL USE, IF THE NON-RESIDENTIALUSE IS ONE STORY BELOW THE LOWEST STORY OCCUPIED BY DWELLING UNITS.
2. ENVIRONMENTAL CONDITIONS *(ZR: 123-32)*
   - 2.1. DWELLING UNITS SHALL BE PROVIDED WITH A MINIMUM 35 DECIBELS OF WINDOWS WALL ATTENUATION TO MAINTAIN AN INTERIOR NOISE LEVEL OF 46 DECIBELS OR LESS, WITH WINDOWS CLOSED, AND SHALL PROVIDE AN ALTERNATE MEANS OF VENTILATION.

Eric Safyan / Architect P.C.
540 President Street / 3rd Fl
Brooklyn NY 11215
tel 718 938 8806
fax 718 596 4697
es-architect.com

No.	Description	Date
	OWNER REVIEW	03.16.15
	OWNER REVIEW	12.16.14

Revisions:

Project:
432 Van Brunt St
Brooklyn, NY 11231

Sheet Title:
3RD FLOOR PLAN, 4TH FLOOR PLAN, & 5TH FLOOR PLAN

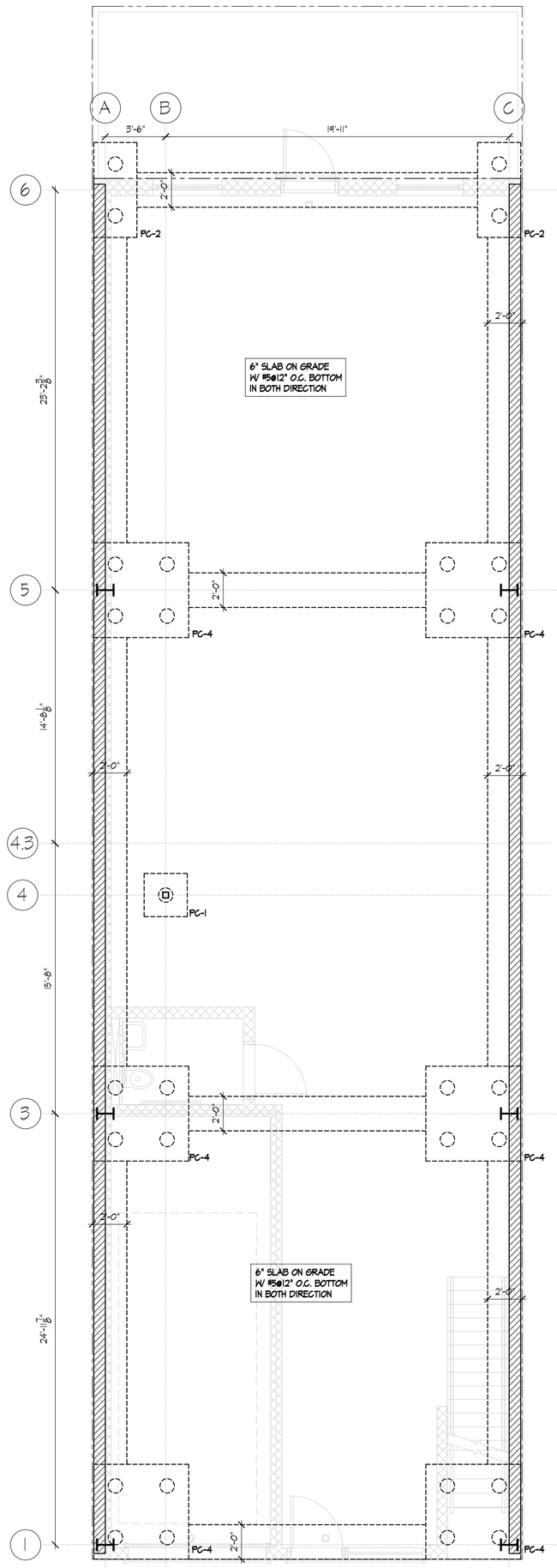
Job No.: 014-03.00
Scale: AS SHOWN
Drawn: ES, KK
Date: 03.14.15

Job Label:

Drawing No.:
A-101.00

APPENDIX 2

PROPOSED BUILDING FOUNDATION PLAN



FOUNDATION PLAN

NOTE: **SCALE: 3/16" = 1'-0"**

1. REFER TO GEOTECHNICAL REPORT FOR PILING TYPES & REQUIREMENTS. PILE CONTRACTOR'S PROFESSIONAL ENGINEERING TO SIGN OFF PILE DESIGN & CONSTRUCTION & CONTROL INSPECTION FOR PILE. SUBMIT SHOP DRAWINGS TO ARCHITECTS FOR REVIEW PRIOR TO CONSTRUCTION.

2. REFER TO SOIL REPORT BY OTHER CONSULTANT FOR ALL OTHER REQUIREMENT & PRE-CAUTION.

○ DENOTES PILES WITH MINIMUM ALLOWABLE VERTICAL CAPACITY OF 50 TONS. ALL PILES SHALL BE DESIGNED BY PILES CONSULTANT / CONTRACTORS, SIGNED & SEALED BY THEIR PROFESSIONAL ENGINEER & SUBMIT TO BUILDING DEPARTMENT. REFER TO RELEVANT DRAWINGS FOR ADDITIONAL INFORMATION & REQUIREMENT.

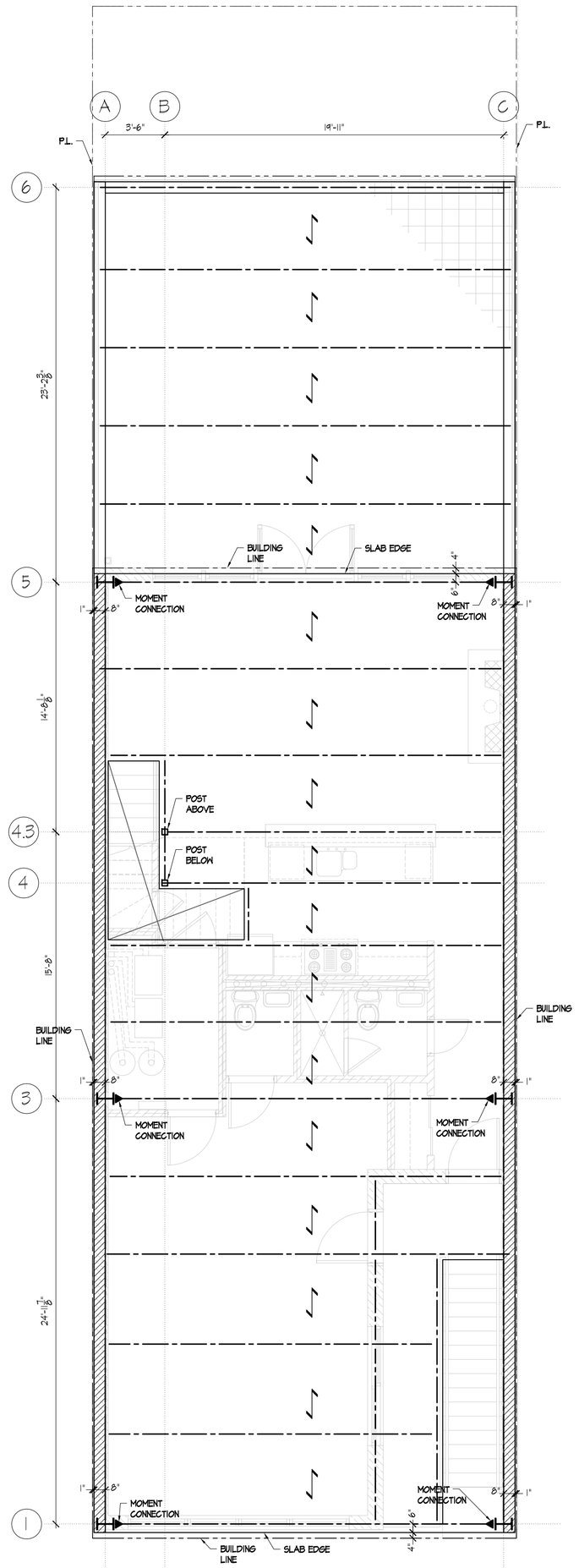
3. AVOID EXCESSIVE VIBRATION DURING CONSTRUCTION. VELOCITY METERS SHALL BE INSTALLED AT ADJACENT BUILDINGS TO MONITOR INDUCE VIBRATIONS DURING CONSTRUCTION. STOP CONSTRUCTION AND NOTIFY ENGINEER AND ARCHITECT IMMEDIATELY IF VALUES EXCEEDING THE LEVEL ALLOWED BY NYC CODE AND BUILDING CODE. CONTROL INSPECTION ENGINEER SHALL REPORT ANY UN-SAFE CONDITION TO THE DEPARTMENT OF BUILDING & ALL RELEVANT PARTIES ONCE UNSAFE CONDITION ENCOUNTERED.

4. MONITOR POINTS SHALL BE SET UP AT ADJACENT BUILDINGS PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL MONITOR ANY MOVEMENT IN BOTH VERTICAL & HORIZONTAL DIRECTIONS REGULARLY & FREQUENTLY. IN CASE ANY MOVEMENT OCCUR, STOP ALL WORKS & NOTIFY ALL PARTIES IMMEDIATELY.

5. SEE ARCH DWG FOR ALL FIREPROOFING & WATERPROOFING REQUIREMENTS & DETAILS.

6. TEMPORARY SHORE EXISTING STRUCTURES FULLY AT WHERE NEEDED PRIOR TO ANY WORK.

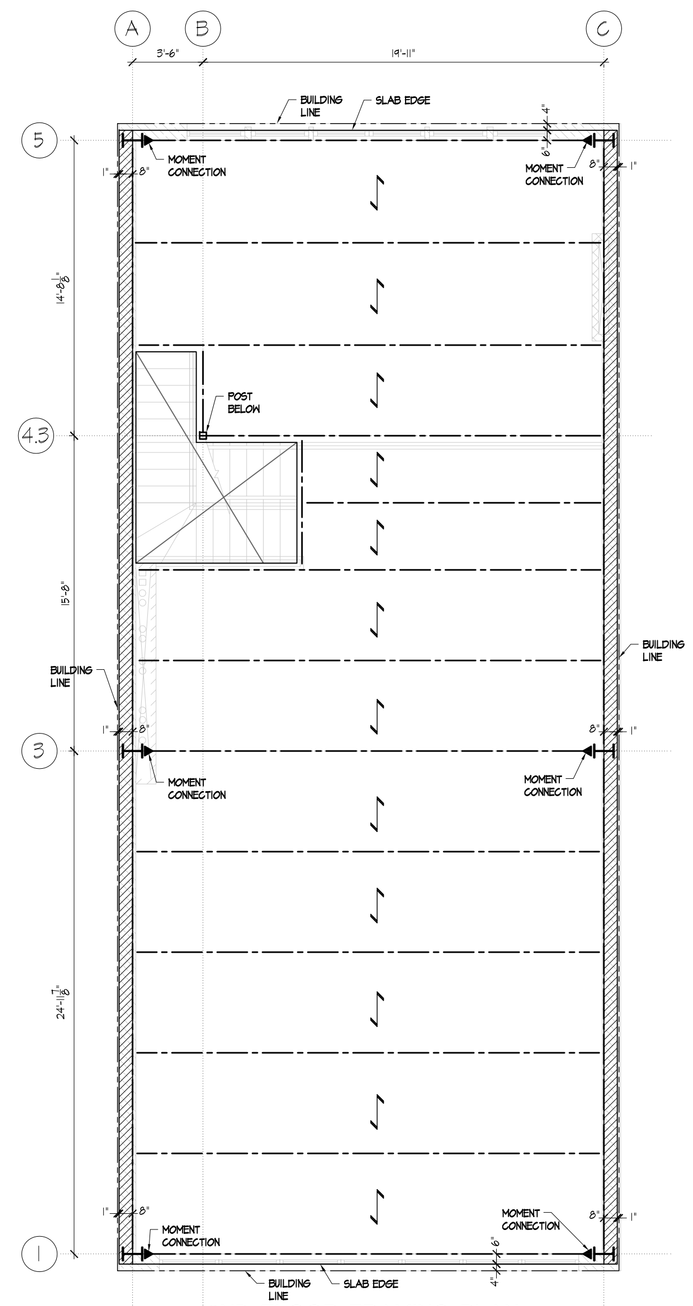
7. T.O.P.C DENOTES TOP OF PILE CAP.



1ST FLOOR FRAMING PLAN

SCALE: 3/16" = 1'-0"

SEE ARCH DWG FOR ALL FIREPROOFING & WATERPROOFING REQUIREMENTS & DETAILS.



2ND FLOOR FRAMING PLAN

SCALE: 3/16" = 1'-0"

FOUNDATION PLAN LEGEND AND NOTES

F?? INDICATES CONCRETE ISOLATED FOOTING. SEE SCHEDULE FOR SIZE.

1. DO NOT SCALE. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION.

2. SCHEDULED MARK DESIGNATIONS ARE TYPICAL TO THE PROJECT AND MAY NOT NECESSARILY BE FOUND ON THIS PLAN.

3. UNLESS NOTED OTHERWISE ON PLANS AND/OR DETAILS, DEPTH OF FOOTING DIMENSIONS INDICATED IN THE G.S.N. ARE MINIMUMS. FOUNDATION CONTRACTOR SHALL COORDINATE WITH SOIL REPORT AND ALL TRADES TO INSURE THAT THESE MINIMUMS ARE SUFFICIENT FOR THE WORK. SEE TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS.

4. BUILDING CONCRETE SLAB ON GRADE SHALL BE AS NOTED ON PLAN. VERIFY EXACT SIZE AND LOCATION OF DEPRESSED AND/OR RAISED SLABS WITH ARCH'L DRAWINGS. FOR SIDEWALK LOCATION, SEE ARCH'L DRAWINGS. FOR ADDITIONAL INFORMATION, SEE G.S.N. AND TYPICAL DETAILS.

5. PROVIDE CONTROL JOINTS IN CONCRETE SLAB ON GRADE. SEE TYPICAL DETAIL AND GENERAL NOTE FOR REQUIREMENT, AND SEE ARCHTIECTURAL DRAWINGS FOR LOCATIONS.

6. PROVIDE CONTROL JOINTS IN MASONRY WALL, SEE G.S.N. AND TYPICAL DETAILS FOR REQUIREMENT, AND SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

FLOOR PLAN LEGEND AND NOTES

DENOTES MOMENT CONNECTION

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7. CONTRACTOR TO VERIFY AND BE RESPONSIBLE FOR VARIATIONS IN CONCRETE QUANTITY DUE TO CAMBER, CONSTRUCTION DEAD LOAD DEFLECTIONS AND/OR TOLERANCES OF STRUCTURAL STEEL ELEMENTS (I.e. BEAMS, STEEL DECK, ETC.) AND PRECAST CONCRETE ELEMENTS.

PROGRESS SET
NOT FOR CONSTRUCTION

CONSULTANTS:

MC Structural Engineering PLLC

116-55 Queens Boulevard, Suite 205, Queens, N.Y 11375
Tel: 718-263-3333 Fax: 718-263-3399

web: www.MCstructural.com
email: info@MCstructural.com

DATE	REV & DESCRIPTION

PROJECT ADDRESS

430 VAN BRUNT
BROOKLYN, NY

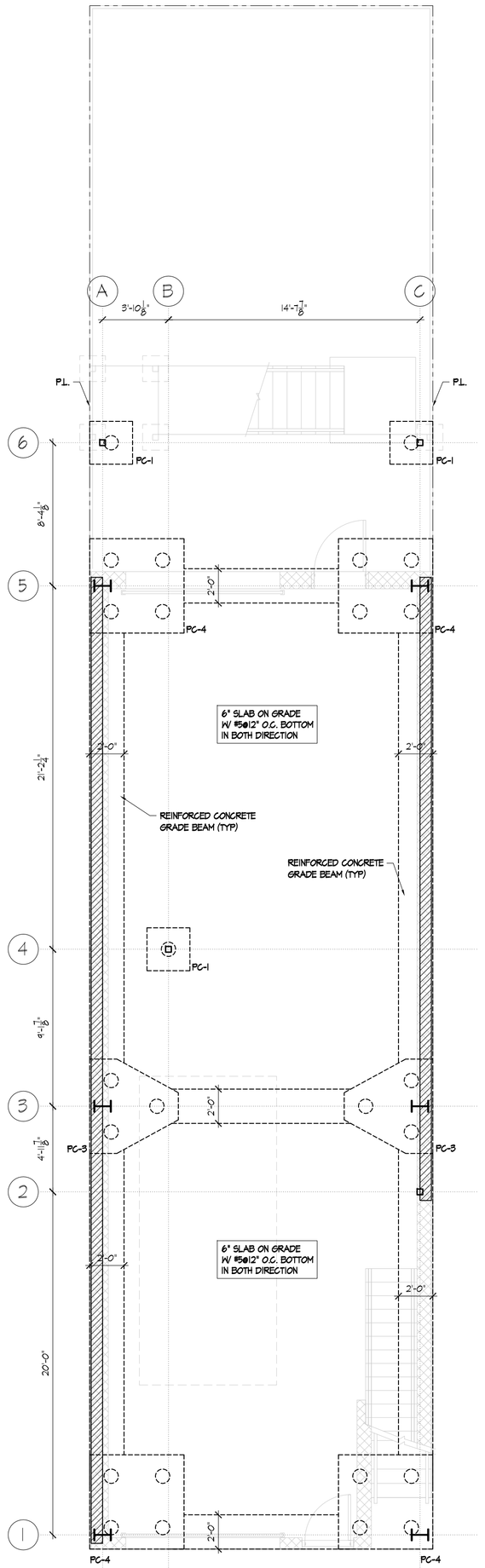
DRAWING CONTENT

FOUNDATION PLAN AND
1ST FLOOR FRAMING PLAN AND
2ND FLOOR FRAMING PLAN

SEAL & SIGNATURE

STATE OF NEW YORK · MICHAEL WING KWAN CHAN · 083432 · LICENSED PROFESSIONAL ENGINEER

DATE: 11/14/14
PROJECT #: 14-041
DRAWING BY: JH
CHECKED BY: MC
SCALE: AS SHOWN
DRAWING #: S-021.00



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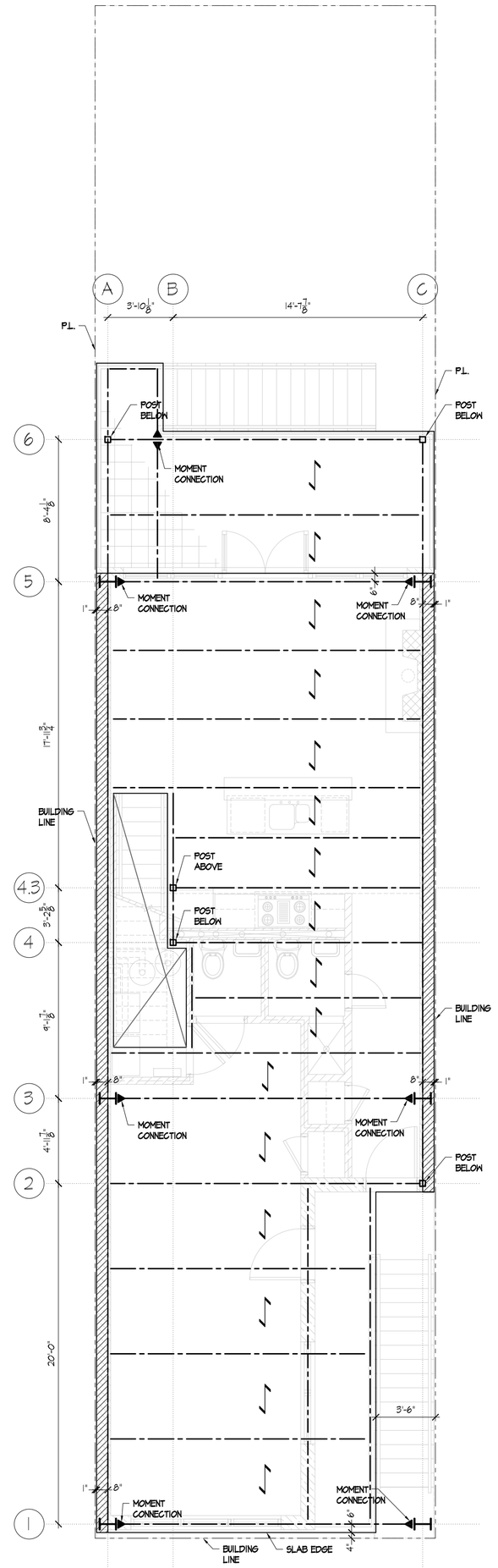

1ST FLOOR FRAMING PLAN

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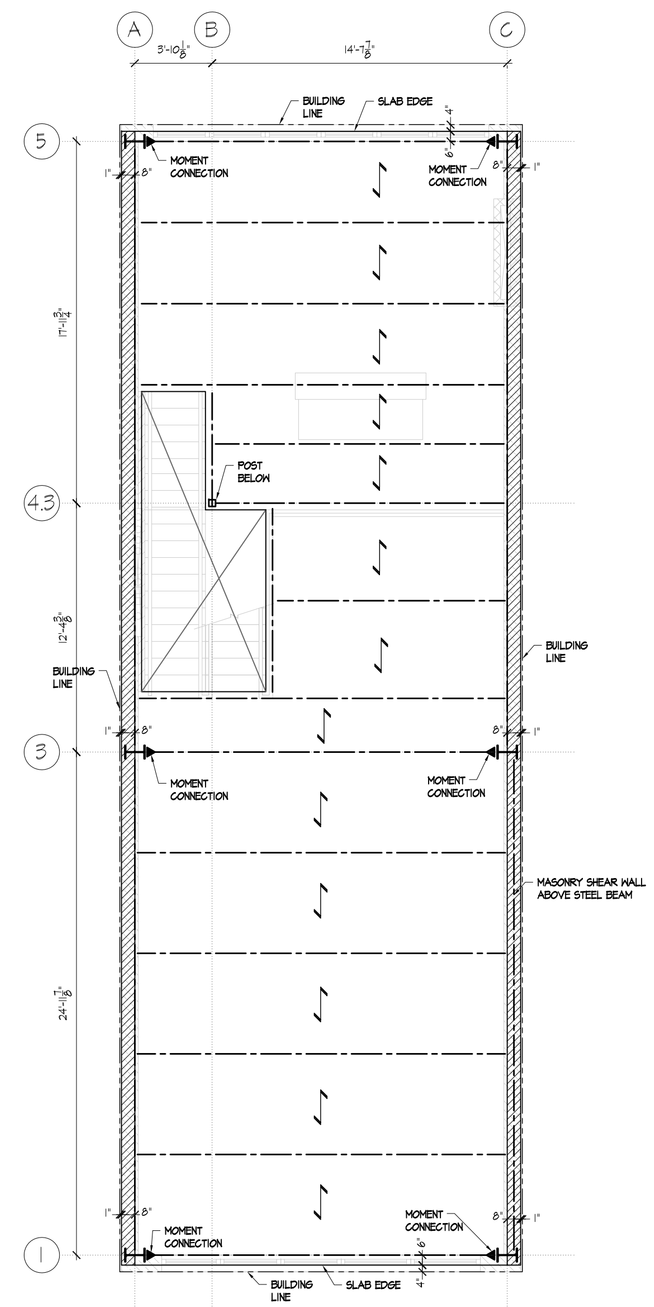

2ND FLOOR FRAMING PLAN

SCALE: 3/16" = 1'-0"

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FLOOR PLAN LEGEND AND NOTES

►- - - - DENOTES MOMENT CONNECTION

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CONSULTANTS:

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DATE	REV & DESCRIPTION

PROJECT ADDRESS

432 VAN BRUNT
BROOKLYN, NY

DRAWING CONTENT

FOUNDATION PLAN AND
1ST FLOOR FRAMING PLAN AND
2ND FLOOR FRAMING PLAN

SEAL & SIGNATURE

STATE OF NEW YORK · MICKEY WING KWAN CHAN · 083432 · LICENSED PROFESSIONAL ENGINEER

DATE: 11/14/14
PROJECT #: 14-041
DRAWING BY: JH
CHECKED BY: MC
SCALE: AS SHOWN
DRAWING #: S-021.00

APPENDIX 3

PHASE I REPORT

August 21, 2014

Mr. Pasquale Pace
Marlboro Builders, LLC/STREKTE
578 Degraw Street
PO Box 21041
Brooklyn, New York 11217
(718) 838-3250/Fax (718) 838-3252

RE: PHASE I ESA
430-434 VAN BRUNT STREET
BLOCK 603, LOT(S) 23 & 24
BROOKLYN, NEW YORK
PT PROJECT #12090-01

Dear Mr. Pace:

PT Consultants, Inc. (PT) is pleased to submit the attached Phase I Environmental Site Assessment (Phase I ESA) for your review. PT was retained to complete the Phase I ESA for the property located at 430-434 Van Brunt Street in Brooklyn, Kings County, New York. The subject property is further identified as Block 603; Lots 23 and 24. The purpose of the Phase I ESA was to identify potential recognized environmental concerns (RECs) at the property. The Phase I ESA was completed in accordance with ASTM 1527-13.

Limitations

The 50-year chain-of-title review could not be completed for all of the parcels researched. The Phase I is therefore partially limited; however, since PT was able to determine historic use from the available historic records and aerial photograph review, the incomplete 50-year chain-of-title should not impact the conclusions of this report.

Conclusions

This assessment has revealed no evidence of recognized environmental conditions in connection with the subject property except for the following:

- Historic Utilization/E-Designation (REC-1): Review of historic records available for the subject property has indicated that the site was developed for mixed residential and commercial-type operations since as early as 1886 until sometime in the 1960's, when the site was cleared of structures and utilized for contractor storage. PT also notes that the subject property was identified within the E Designation program. According to information reviewed, application for development of the property was submitted to the New York City Environmental Quality Review Board and assigned number OODME013K from the application number 020047 ZMK, based on zoning map 16a. An E designation was assigned to the site on January 30, 2002 as E-110 for Hazmat/Underground Storage Tank(s) Testing Protocol. Based on the E Designation and historic operations with the

potential for subsurface features associated with site uses to exist, PT recommends a geophysical survey and soil boring investigation be completed to determine if impacts to the subsurface are present.

- Historic Fill (REC-2): PT observed two (2) small soil piles and test pit excavations situated along the center of the northern and southern property boundaries, respectively. Various layers of fill were observed throughout the soils piles as well as along the sidewalls of the excavated areas. Based on these observations, it is likely that fill material has been brought onto the subject property. PT recommends that historic fill screening should be completed on any on-site soil which may be disturbed or transported off-site for re-use. Additionally, a Health and Safety Plan be implemented to minimize workers' contact with contaminated soil if such is found to exist on-site.

- Storage Container (REC-3): A storage container, which is utilized for the housing of building materials, compressed gas cylinders, and one (1) 55-gallon polyethylene drum, was observed within the northern corner of the subject property. The contents of the drum are unknown and at the time in which the inspection was completed, the drum was noted as having been staged on its side allowing the contents of such to spill onto the wooden floor of the storage container. PT also noted several additional areas of staining along the wooden floor of the storage container. PT recommends an additional investigation of the shipping container in order to assess the potential for hazardous substances to have been discharged through the wooden floor and onto the ground surface. PT also recommends that proper spill prevention and storage techniques are employed.

- Material Staging Areas (REC-4): Several staging areas consisting of trucks, trailers, miscellaneous building materials, solid waste debris were observed throughout the subject property during the site inspection. PT also observed a total of five (5) 5-gallon pails of mastic and hydraulic fluid situated at various locations throughout the subject property. No visual evidence of a release was noted with the exception of one (1) area of minimally soil, which was located beneath the trucks staged within the northern portion of the property. PT recommends that the surface stained area be cleaned and properly managed. In the event that the surface staining should be found to extend through to the subsurface, an additional investigation, removal and sampling should be conducted.

- Ruptured Drum (REC-5): One (1) 55-gallon steel drum was observed within the northern portion of the property. The contents of the drum are unknown. PT noted the structural integrity of the drum appeared to have been compromised, causing it to rupture and discharge its contents onto the ground surface. PT recommends an additional investigation of the drum discharge area be completed to determine if any spill related to such has impacted the subsurface. PT also recommends that proper spill prevention and storage techniques are employed.

- Potential Off-Site Sources of Contamination (REC-6): Several sites with potential sources of soil and groundwater contamination were identified in close proximity to the subject property. Identification of such sites was anticipated due to the urban setting of the subject area. Migration of contaminants from these sites to the subject property would most likely be via groundwater and/or vapor. Based on the E-Designation of the subject property and several immediate surrounding areas, PT has recommended that a soil and groundwater investigation should be completed on the site. The investigation will also assess possible indoor air quality impacts from vapor intrusion; including the potential for impacted groundwater, if identified, to volatilize into the proposed building.

PT appreciates the opportunity to be of service on this project. If you have any questions regarding this report please feel free to contact me at (856) 251-9980.

Sincerely,
PT Consultants, Inc.

Paul Moscatello

Paul Moscatello
Vice President

PHASE I ENVIRONMENTAL SITE ASSESSMENT

430-434 VAN BRUNT STREET
BLOCK 603, LOT(S) 23 & 24
BROOKLYN, NEW YORK
PT PROJECT #12090-01

PREPARED FOR:

MR. PASQUALE PACE
MARLBORO BUILDERS, LLC/STREKTE
578 DEGRAW STREET
PO BOX 21041
BROOKLYN, NEW YORK 11217
(718) 838-3250/FAX (718) 838-3252

PREPARED BY:

PT CONSULTANTS, INC.
629 CREEK ROAD
BELLMAWR, NEW JERSEY 08031
(856) 251-9980/FAX (856) 931-1849

AUGUST 2014

Table of Contents

Page

1.0 Summary 1
2.0 Introduction 2
2.1 Purpose 2
2.2 Detailed Scope of Services 2
2.3 Significant Assumptions 3
2.4 Limitations and Exceptions 4
2.5 Special Terms and Conditions 4
2.6 User Reliance 4
3.0 Site Description 6
3.1 Location and Legal Description 6
3.2 Site and Vicinity General Characteristics 6
3.3 Current Use of the Property 6
3.4 Site Features and Improvements 6
3.5 Current Uses of the Adjoining Properties 7
4.0 User Provided Information 8
4.1 Title Records 8
4.2 Environmental Liens or Activity and Use Limitations 8
4.3 Specialized Knowledge 8
4.4 Valuation Reduction for Environmental Issues 8
4.5 Commonly Known or Reasonably Ascertainable Information 9
4.6 Owner, Property Manager, and Occupant Information 9
4.7 Reason for Performing Phase I ESA 9
5.0 Records Review 10
5.1 Standard Environmental Record Sources 10
5.1.1 Federal Database 10
5.1.2 State Database 13
5.1.3 Orphan Site Review 21
5.2 NYC BIS Search 21
5.3 Physical Setting Sources 22
5.4 Historical Use Information on the Property 22
5.4.1 Flood Plain Map Review 23

Table of Contents (continued)

5.4.2 Wetlands Map Review 23
5.4.3 Radon Map Review 23
5.4.4 Chain of Title 24
5.4.5 Aerial Photograph Review 25
5.4.6 Sanborn Map Review 26
5.4.7 Topographic Map Review 27
5.4.8 City Directory Review 28
5.4.9 The Department Geographic Information System 29
5.5 Historical Use Information on Adjoining Properties 29
6.0 Site Reconnaissance 30
6.1 Methodology and Limiting Conditions 30
6.2 General Site Settings 30
6.3 Observations 30
7.0 Interviews 32
7.1 Interview with Owner or Owner Representative 32
7.2 Interview with Site Manager 32
7.3 Interviews with Others 32
8.0 Findings and Opinions 33
9.0 Conclusions 36
10.0 Deviations 37
11.0 Additional Services/Non-Scope Considerations 38
12.0 References 39
13.0 Qualifications 40

Figures

Figure 1 Site Location Map

Appendices

Appendix 1 PT Proposal
Appendix 2 Qualifications
Appendix 3 Tax Map
Appendix 4 User Questionnaire
Appendix 5 EDR Report
Appendix 6 Local Zoning Records

Table of Contents (continued)

Appendix 7 Current Deed
Appendix 8 Aerial Photographs
Appendix 9 Sanborn Maps
Appendix 10 Historical Topographic Maps
Appendix 11 City Directory Search
Appendix 12 Environmental Database GIS Map
Appendix 13 Phase I ESA Checklist
Appendix 14 Photo Documentation

1.0 Summary

PT Consultants, Inc. (PT) was retained to complete a Phase I Environmental Site Assessment for the property located at 430-434 Van Brunt Street in Brooklyn, Kings County, New York (herein referred to as the "subject property" or "property"). A copy of the proposal engaging PT to complete the work is included as **Appendix 1**. A site location map is provided as **Figure 1**. The purpose of the Phase I ESA was to identify potential recognized environmental concerns (RECs) at the property. The Phase I ESA was completed in accordance with ASTM 1527-13. The qualifications of the personnel completing the work are included as **Appendix 2**.

2.0 Introduction

2.1 Purpose

PT conducted this Phase I ESA at the request of Marlboro Builders, LLC. The purpose of this Phase I ESA is to identify, to the extent feasible pursuant to this process, RECs in connection with the subject property.

RECs are defined by ASTM International as "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment."

The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

2.2 Detailed Scope of Services

PT performed this Phase I ESA to assess the potential for RECs at the subject property. PT performed this Phase I ESA in general conformance with the ASTM International *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E 1527-13.* The Phase I ESA included, but is not limited to the following activities:

- Review of selected historical aerial photographs.

- Research and review of available background information (provided to us and from in-house data base systems) regarding the subject property in order to identify areas and/or items of potential concern relative to contamination or storage of hazardous waste. We coordinated a computer search of various pertinent databases (including Sanborn maps).

- Completion of a title search.

- Contacting state and local agencies regarding the availability of files for the subject site and review of the files if deemed appropriate and practicable.

- A site visit to perform a visual reconnaissance to identify evidence of RECs. The reconnaissance included readily visible and accessible areas of the site only. The site reconnaissance also included observing the current uses of adjoining properties to the extent practicable without entering the adjoining properties.

- Interviews with key site personnel to obtain information about the uses and physical characteristics of the subject property and potential environmental risks associated with the subject property.

The findings and conclusions discussed in this report are based on the historic data readily available to our project team and the specific conditions observed (and documented) during our site inspection. No attempt has been made to comment on conditions beyond those documented in our Phase I ESA report and certification of the property is not made or implied in this regard.

2.3 Significant Assumptions

PT assumes that all information provided to us either by the client, the client's representatives, persons identified as being knowledgeable about the subject property

history and/or operations, the environmental database search subcontractor, regulatory agencies or other involved parties was truthful, complete, accurate and provided in good faith. PT relied upon the documents and information provided; we assume no responsibility or liability for their accuracy or completeness. Further, it is possible that due to site-specific limitations certain RECs might not have been visible. PT provides no guarantee that this Phase I ESA identified all RECs associated with the subject property.

2.4 Limitations and Exceptions

The RECs identified in this Phase I ESA report are limited to those PT identified in the records reviews, site reconnaissance, and interviews that are documented within. This Phase I ESA did not include an inspection of subsurface conditions, or any subsurface testing or sampling (e.g., air, water, soil and building materials).

The 50-year chain-of-title review could not be completed for all of the parcels researched. The Phase I is therefore partially limited; however, since PT was able to determine historic use from the available historic records and aerial photograph review, the incomplete 50-year chain-of-title should not impact the conclusions of this report.

2.5 Special Terms and Conditions

No special terms of conditions were included as part of this assessment.

2.6 User Reliance

All reports, plans, specifications, electronic data, field data, notes and other documents ("Work Product") prepared by PT pursuant to this Agreement are intended for the exclusive use and reliance by the Client. PT cannot and will not be liable for unauthorized reliance by any other third party.

Marlboro Builders, LLC understands and agrees that the information contained in this report describes facts and PT's opinions regarding conditions related to the property as of the date of this report and does not purport to describe facts or conditions subsequent to the date of the report. Please also note that the scope of work performed was negotiated by PT and Marlboro Builders, LLC is noted in the contract and this report.

3.0 Site Description

3.1 Location and Legal Description

The subject property is located at 430-434 Van Brunt Street in Brooklyn, Kings County, New York. A site location map is provided as **Figure 1**. The subject property is further identified as Block 603; Lots 23 and 24. A copy of the tax lot map is provided as **Appendix 3**.

3.2 Site and Vicinity General Characteristics

The site is comprised of two (2) lots, which total approximately 5,850 square feet in size. The site is currently undeveloped and is utilized as a contractor storage yard. The subject property is situated within an urban area with mixed residential, commercial, and industrial operations located within the surrounding area.

3.3 Current Use of the Property

The site is currently undeveloped and is utilized as a contractor storage yard.

Review of historic records available for the subject property has indicated that the site was developed for mixed residential and commercial-type operations since as early as 1886 until sometime in the 1960's, when the site was cleared of structures and utilized for contractor storage. Site use has remained relatively unchanged through to current day.

3.4 Site Features and Improvements

The site is comprised of two (2) lots, which total approximately 5,850 square feet in size. The site is currently undeveloped and is utilized as a contractor storage yard. There are no structures present on the subject property.

3.5 Current Uses of the Adjoining Properties

The surrounding land use is as follows:

North: The property is bordered directly north by residential properties followed by Van Dyke Street.

South: The property is bordered to the south by Van Brunt Street followed by residential and commercial properties.

East: The property is bordered to the east by residential and commercial properties followed by the intersection of Van Brunt Street and Van Dyke Street.

West: The property is bordered to the west by residential properties followed by Beard Street.

4.0 User Provided Information

ASTM Standard 1527-13 includes additional responsibility and requirements of the client or "User" of the report to provide the environmental professional with adequate site information. Copies of the completed questionnaire and any additional pertinent information provided by the report User are provided in **Appendix 4.** The following paragraphs present a summary of pertinent information obtained following review of available information.

4.1 Title Records

The User did not provide to PT any recorded land title records pertaining to the subject property.

4.2 Environmental Liens or Activity and Use Limitations

The User was unaware of any environmental records and/or activity and use limitations that are associated with the subject property.

4.3 Specialized Knowledge

The User indicated that the property has historically consisted of vacant land, which was utilized as a contractor storage yard.

4.4 Valuation Reduction for Environmental Issues

PT was not provided with an appraisal for the subject property. However, the User indicated that the purchase price of the property accurately reflected fair market value as no environmental issues were identified by the User that could result in property value reduction.

4.5 Commonly Known or Reasonably Ascertainable Information

The User was not aware of any environmental cleanups that may have taken place at the subject property.

4.6 Owner, Property Manager, and Occupant Information

The User did not provide to PT any information regarding the owner, property manager, or occupant.

4.7 Reason for Performing Phase I ESA

This Phase I ESA was performed to identify existing environmental concerns and liabilities associated with the property.

5.0 Records Review

5.1 Standard Environmental Record Sources

As part of the Phase I ESA, PT completed an EDR Database Search for the subject property. A copy of the EDR Database Search is included as **Appendix 5**. The EDR Database Search is a computerized search which reviews Federal and State databases, as well as, several supplemental Federal and State databases. The results of the EDR Database Search are detailed in the following sections.

5.1.1 Federal Database

CERCLIS: *Comprehensive Environmental Response, Compensation, and Liability Information System*

The subject property was not identified in the CERCLIS database. One (1) CERLCIS database site was identified in the ASTM search radius. The Brookhattan Smelting and Refining site is located at a minimum distance that is greater than 1/8 of a mile from the subject property and according to the EDR report, did not qualify as a potential NPL. Based on the proximity and status listing, the site would not be expected to impact the subject property.

RCRA-SQG: *Resource Conservation and Recovery Act Small Quantity Generator*

The subject property was not listed in the RCRA-SQG database. One (1) RCRA-SQG database site was identified within the ASTM search radius. The NYC Dept of ED –Public School site is located at a minimum distance that is greater than 1/8 of a mile from the subject property and with no violations identified. Based on such, the site would not be expected to impact the subject property.

RCRA-CESQG: *Resource Conservation and Recovery Act Conditionally Exempt Small Quantity Generator*

The subject property was not listed in the RCRA-CESQG database. Three (3) RCRA-CESQG sites were identified within the ASTM search radius. Two (2) of the sites were identified within 1/8 of a mile to the subject property.

Con-Edison Manhole #43857 is located at Coffey Street and Van Brunt Street, approximately 396 feet northeast of the subject property and at a higher topographic elevation. According to the EDR report, there were no violations identified for this database listing. Based on no reported violations, the site would not be expected to impact the subject property.

Con-Edison Manhole #43655 is located at Van Brunt Street and Dikeman Street SW, approximately 659 feet northeast of the subject property and at a higher topographic elevation. According to the EDR report, there were no violations identified for this database listing. Based on no reported violations, the site would not be expected to impact the subject property.

The remaining site is located a minimum distance that is greater than 1/8 of a mile from the subject property and at a lower topographic elevation. Based on the proximity and topography relative to the subject property, the site is not believed to be of further concern at this time.

RCRA-NonGen: *Resource Conservation and Recovery Act Non Generator*

The subject property was not listed in the RCRA-NonGen database. Seventeen (17) RCRA-NonGen database sites were identified within the ASTM search radius. As non generators of hazardous waste, these sites are not expected to impact the subject property.

FUDS: *Formerly Used Defense Sites*

The subject property was not identified in the FUDS database. One (1) FUDS database site was identified in the ASTM search radius. The ATL Basin Iron Works site is located adjacent to Conover Street and Below Van Dyke Street, approximately 388 feet to the west-northwest of the subject property and at a higher topographic elevation. According to the EDR report, the site was historically utilized by the U.S. Navy as a shipyard, but is now utilized for vehicle storage. The EDR report also states that there are a number of abandoned tanks associated with the property. No additional pertinent information was provided. Migration of contaminants from this site to the subject property would most likely be via groundwater and/or vapor. However, groundwater within the vicinity of the subject property is presumed to travel west-southwest towards the Hudson River. Based on the presumed groundwater flow direction and the geographical position of the site relative to the subject property, the site would not be expected to impact the subject property.

ERNS: *Emergency Response Notification System*

The EDR report identified the subject property as existing within the ERNS database under 430 Van Brunt Street. According to information obtained from a supplemental EDR Site Detail report, an

incident related to a tank truck fuel tank was reported on September 4, 1996. No other pertinent information was provided by the EDR or Site Detail report. Additional information regarding the incident is provided in the SPILLS database, below.

The following Federal databases were also searched; however, the subject property was not listed nor were any additional sites listed within the ASTM search radius: NPL, Proposed Delisted NPL, NPL LIENS, CERC-NFRAP, CORRACTS, RCRA-TSDF, RCRA-LQG, US ENG CONTROLS, US INST CONTROLS, and US BROWNFIELDS.

5.1.2 State Database

SHWS: *State Hazardous Waste Sites*

The subject property was not identified in the SHWS database. Five (5) SHWS sites were identified within the ASTM search radius. All of the database listings have been eliminated from consideration as a potential source of environmental impact based on their proximity, lower topographic elevation, and/or hydraulically down-gradient position relative to the subject property.

DEL SHWS: *Delisted State Hazardous Waste Sites*

The subject property was not identified in the DEL SHWS database. One (1) DEL SHWS site was identified within the ASTM search radius. The Carroll Gardens site is located at a minimum distance that is greater than 1/2 of a mile from the subject property. Based on the delisted status and proximity, the site would not be expected to impact the subject property.

SWF/LF: *Solid Waste Facility/Landfill Sites*

The subject property was not identified in the SWF/LF database. Five (5) SWF/LF sites were identified within the ASTM search radius. All of the database listings have been eliminated from consideration as a potential source of environmental impact based on their proximity, lower topographic elevation, and/or hydraulically down-gradient position relative to the subject property.

LTANKS: *Leaking Storage Tank Incident Reports*

The subject property was not identified in the LTANKS database. Eleven (11) LTANKS sites were identified within the ASTM search radius. All of the database listings have been eliminated from consideration as a potential source of environmental impact based on their "closed" status listing, proximity, lower topographic elevation, and/or hydraulically down-gradient position relative to the subject property.

UST: *Underground Storage Tanks*

The subject property was not identified in the UST database. Seven (7) UST database sites were identified within the ASTM search radius. One (1) of the sites was identified within 1/8 of a mile to the subject property.

Nechanah & Rafael, LLC is located at 175 Beard Street, approximately 204 feet west of the subject property and at a higher topographic elevation. According to the EDR report, one (1) 2,000 gallon #2 fuel oil UST was registered to the property and listed as having been closed in place. No additional pertinent information was provided. Migration of contaminants from this site to the subject

property would most likely be via groundwater and/or vapor. However, groundwater within the vicinity of the subject property is presumed to travel west-southwest towards the Hudson River. Based on the presumed groundwater flow direction and the geographical position of the site relative to the subject property, the site would not be expected to impact the subject property.

The remaining UST database sites identified have been eliminated from consideration as a potential source of environmental impact based on the tank status, proximity, lower topographic elevation, and/or hydraulically down-gradient position relative to the subject property.

AST: *Aboveground Storage Tanks*

The subject property was not identified in the AST database. Six (6) AST database sites were identified within the ASTM search radius. Two (2) of the sites were identified within 1/8 of a mile to the subject property.

Ahava Food Corp is located at 118 Beard Street, approximately 388 feet south-southeast of the subject property and at a lower topographic elevation. According to the EDR report, two (2) 1,000 gallon diesel fuel ASTs are registered to the property and listed as being in-use. Equipment records indicate that the tanks are situated within a secondary containment vault with an overfill detection/prevention system in place. Based on the containment systems, proximity, and topographic elevation relative to the subject property, the site would not be expected to impact the subject property.

Cornell Paper Box Inc is located at 180 Van Dyke Street, approximately 627 feet northwest of the subject property and at a lower topographic elevation. According to the EDR report, one (1) 5,000 gallon #2 fuel oil AST was registered to the property and listed as having been removed. Based on the status, proximity, and topographic elevation relative to the subject property, the site would not be expected to impact the subject property.

The remaining AST database sites identified have been eliminated from consideration as a potential source of environmental impact based on the tank status, proximity, lower topographic elevation, and/or hydraulically down-gradient position relative to the subject property.

CBS AST: *Chemical Bulk Storage –Aboveground Storage Tank Sites*

The subject property was not identified in the CBS AST database. Two (2) CBS AST sites were identified within the ASTM search radius; however, these database listings have been eliminated from consideration as a potential source of environmental impact based on their proximity and hydraulically down-gradient position relative to the subject property.

CBS: *Chemical Bulk Storage Sites*

The subject property was not identified in the CBS database. Two (2) CBS sites were identified within the ASTM search radius; however, these database listings have been eliminated from consideration as a potential source of environmental impact based on their proximity and hydraulically down-gradient position relative to the subject property.

HIST UST: *Historic Underground Storage Tanks*

The subject property was not identified in the HIST UST database. Two (2) HIST UST database sites were identified within the ASTM search radius; however, these database listings have been eliminated from consideration as a potential source of environmental impact based on the tank status, proximity, lower topographic elevation, and/or hydraulically down-gradient position relative to the subject property.

Inst Controls: *Classification Exception Area Sites*

The subject property was not listed on the Inst Controls database. One (1) Inst Controls database site was listed in the search radius. The U.S. Dredging Shipyard Site property is located at a minimum distance that is greater than 1/4 of a mile from the subject property as well as at both a lower topographic and hydraulically down-gradient position relative to the subject property. Based on such, the site would not be expected to impact the subject property.

Eng Controls: *Declaration of Environmental Restriction/Deed Notice Sites*

The subject property was not listed on the Eng Controls database. One (1) Eng Controls database site was listed in the search radius. The U.S. Dredging Shipyard Site property is located at a minimum distance that is greater than 1/4 of a mile from the subject property as well as at both a lower topographic and hydraulically down-gradient position relative to the subject property. Based on such, the site would not be expected to impact the subject property.

VCP: *Voluntary Cleanup Program*

The subject property was not identified in the VCP database. One (1) VCP database site was listed in the search radius. The U.S.

Dredging Shipyard Site property is located at a minimum distance that is greater than 1/4 of a mile from the subject property as well as at both a lower topographic and hydraulically down-gradient position relative to the subject property. Based on such, the site would not be expected to impact the subject property.

Brownfields: *Current or former commercial or industrial sites listed as vacant or underutilized*

The subject property was not identified in the Brownfields database. One (1) Brownfields database site was listed in the search radius. The U.S. Dredging Shipyard Site property is located at a minimum distance that is greater than 1/4 of a mile from the subject property as well as at both a lower topographic and hydraulically down-gradient position relative to the subject property. Based on such, the site would not be expected to impact the subject property.

SWRCY: *Registered Recycling Facility List*

The subject property was not identified in the SWRCY database. One (1) SWRCY database site was listed in the search radius. The Ikea Red Hook site is located at a minimum distance that is greater than 1/4 of a mile from the subject property as well as at both a lower topographic and hydraulically down-gradient position relative to the subject property. Based on such, the site would not be expected to impact the subject property.

NY SPILLS: *Records of Emergency Release Reports*

The EDR report identified "Roadway" under the 430 Van Brunt Street address within the NY SPILLS database. According to the EDR, an incident was reported on September 4, 1996 after a commercial vehicle

spilled an unknown amount of motor oil into the street. The incident was subsequently issued spill number 9607095. The EDR also indicates that both the DEC and Responsible party responded to the scene of the incident and that the proper corrective actions were taken. The case was listed as having been closed as effective September 5, 1996. Based on the closed case status and the incident having actually occurred in the street and not within the physical boundaries of the subject property, PT does not recommend any additional investigation into this database listing at this time.

Forty (40) additional NY SPILLS database sites were identified within the ASTM search radius. All of the reported incidents have been listed with a closed status or indicate that a corrective action had occurred. Based on the status listing, these sites are not believed to be of further concern at this time.

MANIFEST: *Hazardous Waste Manifest Information*

The subject property was not identified in the MANIFEST database. Fourteen (14) Manifest database sites were identified within the ASTM search radius. Presence on the MANIFEST database indicates that these facilities had generated some form of hazardous waste materials which were transported to a TSD Facility and does not indicate an environmental issue is present. Based on this information, PT does not recommend any further investigation into these entries.

E Designation: *Sites designated for potential hazardous material contamination, air and/or noise impacts*

The EDR report identified the subject property as "Lot 23, Tax Block

603" and "Lot 24, Tax Block 603" within the E Designation database. According to information reviewed, application for development of the property was submitted to the New York City Environmental Quality Review Board and assigned number OODME013K from the application number 020047 ZMK, based on zoning map 16a. An E designation was assigned to the site on January 30, 2002 as E-110 for Underground Storage Tank(s) Testing Protocol. Based on the description provided in the E Designation a subsurface investigation is warranted in order to determine if impacts to the site soils and/or groundwater are present.

Three (3) additional E Designation database sites were identified within the ASTM search radius. All of the sites are situated within 1/8 of a mile from the subject property; however, no additional pertinent information is provided regarding these facilities from EDR. Based on the proximity and designation status, theses sites may have the potential to impact the subject property.

Hist. Auto Stations:

EDR potential Historical Automobile Station database listings

The subject property was not identified in the Historical Auto Stations database. Eleven (11) Historical Auto Station sites were identified within the search radius. Ten (10) of the database sites identified have been eliminated from consideration as a potential source of environmental impact based on proximity and/or hydraulically down-gradient position relative to the subject property. G&F Auto Collision is located at 147 Van Dyke Street, approximately 151 feet north-northeast of the subject property and at a higher topographic elevation. The site is listed as an auto service

station between 1999 and 2000 in the database report. Due to the proximity and description of site operations, potential impacts to the subject property cannot be ruled out.

The following State and EDR Proprietary databases were also searched; however, the subject property was not listed nor were any additional sites listed within the ASTM search radius: HSCA, LAST, ODI, CONSENT, PADS, and Hist. Cleaners, DRYCLEANERS.

5.1.3 Orphan Site Review

The EDR report generates a list of sites called orphan sites for which EDR does not have enough information to map the location. PT reviewed the list of orphan sites. None of the orphan sites were recognized as being the subject property, or adjacent properties.

5.2 NYC BIS Search

PT conducted a review of any/all building records held for the subject property with the New York City Department of Buildings, Building Information System (BIS). The NYC BIS system maintains an online catalog of building records which include recorded complaints, violations, actions, applications and inspections. The search was completed under Block 603; Lots 23 and 24. Review of available records has identified the following:

- Review of the Property Profile Overview indicates that the Block 603; Lot 23 portions of the property consists of vacant land with a "HAZMAT" Environmental restriction.

- PT reviewed documents pertinent to action items and complaints, which were associated with the 430 Van Brunt Street address (BIN # 3846916). Review of

the action item summary identified a building demolition permit dated April 1932. The action item summary also identified permits for the construction of a new building between February 1950 and January 1952 with alterations being completed in August 1953. No other pertinent information related to the former site structures was obtained.

PT also reviewed several complaints and violations dated between 1997 and 2001 regarding the improper use of the site as a storage yard. A complaint was also reviewed related to the un-permitted construction of a car-port on the property.

- No records were identified for the Block 603; Lot 24 portions of the property.

Copies of the records reviewed are included as **Appendix 6.**

5.3 Physical Setting Sources

According to the Topographic Map, included with the EDR, the subject property is approximately 8 feet above mean sea level. Based on the Geologic Map of New York, the site is underlain by glacial and alluvial deposits of which the underlying bedrock geology is unknown. There are no surface water bodies situated within the subject property. The nearest water body is the Erie Basin of the Upper New York Bay, which is located approximately 315 feet to the south of the subject property. Groundwater within the vicinity of the subject property is presumed to travel south-southwest towards the Upper New York Bay.

5.4 Historical Use Information on the Property

According to the ASTM E 1527-13 standard, all obvious uses of the subject property must be identified from the present back to either the subject property's first developed use or back to 1940, whichever is earlier. In order to fulfill this requirement, historical

information provided by and obtained from the sources identified in **Sections 5.4.1 through 5.4.7** was reviewed to develop a history of the previous uses of the subject property and surrounding area in order to help identify the likelihood that past uses have led to recognized environmental conditions in connection with the subject property. The results of these document reviews are detailed in the following sections.

5.4.1 Flood Plain Map Review

As part of the Phase I ESA scope of work, PT reviewed the flood plain map for the property. A copy of the flood plain map is included in the EDR report included as **Appendix 5**. The results of the review were as follows:

- Based on a review of the FEMA flood zone map, the subject property is located within the 100 flood plain as mapped by FEMA. Special flood insurance may be required for the subject property.

5.4.2 Wetlands Map Review

As part of the Phase I ESA scope of work, PT reviewed the wetlands map for the property. A copy of the wetlands map is included in the EDR included as **Appendix 5**. The results of the review were as follows:

- Based on a review of the wetlands map, the subject property does not lie within Federal or State regulated wetlands.

5.4.3 Radon Map Review

As part of the Phase I ESA scope of work, PT reviewed the radon data for the property. A copy of the radon data is included in the EDR report, which is included as **Appendix 5**. The results of the review were as follows:

- Radon potential for the subject property is listed as Zone 3, with the average radon concentrations that are less than 2pCi/L. Therefore, radon is not believed to be of further concern.

5.4.4 Chain of Title

Block 603; Lot 23			
Owner	**From**	**To**	**Book Reel/Page**
Marlboro Builders, LLC	4/17/2014	Current	2014000160710
Pat Pace	5/4/1994	4/17/2014	3396/416
James Calicchio	3/23/1993	5/4/1994	3032/282
Lucy Calicchio	6/30/1990	3/23/1993	2684/290
Anthony Calicchio (Vincent Calicchio)	4/3/1973	6/30/1990	623/1900
Katherine Banks	--	4/3/1973	--/--
City of New York	6/23/1966	--	169/291
Block 603; Lot 24			
Owner	**From**	**To**	**Book Reel/Page**
Marlboro Builders, LLC	10/22/2013	Current	2013000512320
Pat Pace	5/4/1994	4/17/2014	3396/416
James Calicchio	3/23/1993	5/4/1994	3032/282
Lucy Calicchio	6/30/1990	3/23/1993	2684/290
Anthony Calicchio, et al (Vincent Calicchio)	9/5/1980	6/30/1990	1183/1
Dorothy Strype	7/15/1973	9/5/1980	647/65
Josephine Izzo	12/21/1972	7/15/1973	603/358
Cage Realty Corp	1/18/1971	12/21/1972	459/649
City of New York	4/9/1968	1/18/1971	693/208
Roy Goodman	--	4/9/1968	--/--

No environmental liens were apparent on the reviewed deeds. Copies of the deeds are included as **Appendix 7**.

5.4.5 Aerial Photograph Review

PT reviewed aerial photographs obtained from EDR for the years 1924, 1940, 1943, 1954, 1966, 1975, 1978, 1984, 1995, 2006, 2008, 2009, and 2011. Copies of historical aerial photographs obtained from EDR are included as **Appendix 8**. The results of the review are as follows:

1924-1954 Aerials: The subject property appears as developed land in this photograph; however, the site's use is not clearly discernable in this photograph. The surrounding areas appear to be fully developed with presumed industrial, commercial, and residential properties within the immediate vicinity. The property is bordered to the south by Van Brunt Street. Van Dyke Street and Beard Street are also present to the north and west of the property, respectively. Upper New York Bay as well as several shipyards/shipping terminals are present on lands located to the north, west and south.

1966-2011 Aerials: The subject property no longer appears to be improved with structures, and now appears to primarily consist of undeveloped land. Minor changes were noted throughout the surrounding areas including demolition and re-development of several properties; however, these changes are not expected to impact the subject property.

5.4.6 Sanborn Map Review

PT reviewed Sanborn Maps obtained from EDR for the years 1886, 1904, 1915, 1921, 1922, 1928, 1938, 1950, 1969, 1977, 1979, 1980, 1981, 1982, 1986, 1987, 1988, 1991, 1992, 1993, 1995, 1996, 2001, 2002, 2003, 2004, 2005, 2006, and 2007. Copies of Sanborn Maps obtained from EDR are included as **Appendix 9**. The results of the review are as follows:

1886 Map: The 430 Van Brunt Street parcel is developed with a residential dwelling and the 432-434 Van Brunt Street parcel is developed with a structure, which is identified as "Junk". Residential structures are present to the north followed by Van Dyke Street. Several storefront structures border the property to the east followed by the intersection of Van Brunt Street and Van Dyke Street. The property is bordered to the south by Van Brunt Street and to the west by storefronts, dwellings, and Beard Street. The subject property is situated within an urban setting with industrial, commercial, and residential properties within the immediate vicinity.

1904 Map: No significant changes to the subject property or surrounding areas are observed.

1915 Map: Use of the structure situated within the 432-434 Van Brunt Street parcel has changed from "Junk" to "Rope Dealer". No significant changes to the remaining portions of the subject property or surrounding areas are observed.

1921 Map: The subject property is not depicted in this map.

1922 Map: The subject property is not depicted in this map.

1928 Map: The subject property is not depicted in this map.

1938 Map: The residential dwelling previously noted within the 430 Van Brunt Street parcel is no longer present. The lot now appears as vacant land. Use of the structure situated within the 432-434 Van Brunt Street parcel has changed from "Rope Dealer" to "Thomas Kent Stevedore".

1950 Map: No significant changes to the subject property are observed. However, use of the structure situated within the 432-434 Van Brunt Street parcel has changed from "Thomas Kent Stevedore" to "Stevedore".

1969 Map: The structure previously noted within the 432-434 Van Brunt Street parcel is no longer present. Both parcels which comprise the subject property now appear as vacant land.

1977-2007 Maps: No significant changes to the subject property are observed. Minor changes were noted throughout the surrounding areas including utilization changes of several properties; however, these changes are not expected to impact the subject property.

5.4.7 Topographic Map Review

PT reviewed historical topographic maps for the subject area from EDR for the years 1891, 1900, 1905, 1925, 1947, 1955, 1967, and 1981. Copies of historical topographic maps obtained from EDR are included as **Appendix 10**. The results of the review are as follows:

1891-1925 Maps: Due to the scale of these historical topographic maps, PT was unable to adequately discern or record specific features for the site or the immediate surrounding areas. Upper New York Bay as well as several

shipyards/shipping terminals border the subject area to the north, west and south.

1947 Map: The subject property and immediate surrounding areas are depicted as developed land; however, the subject property's use is not clearly discernable due to the scale of the historical topographic map and the urban setting of the subject area. The property is bordered to the south by Van Brunt Street. Van Dyke Street and Beard Street are also present to the north and west of the property, respectively.

1955-1981 Maps: The subject property and immediate surrounding areas are depicted as an urban area; however, PT was unable to adequately discern or record specific features or uses for the site.

5.4.8 City Directory Review

PT requested a search of City Directories for the subject property and adjacent properties from EDR. According to EDR's City Directory Search Report, business directories including city, cross reference and telephone directories were reviewed, if available, at approximate five (5) year intervals for the years spanning 1928 through 2013. A copy of the city directory report obtained from EDR is included as **Appendix 11**. The results of the review are as follows:

- William Banks Rigging Company was listed at 434 Van Brunt Street from 1940 through 1960.
- Red Hook Rigging Company was listed at 434 Van Brunt Street in 1945.
- Maritime Testing Corp was listed at 434 Van Brunt Street in 1960.

5.4.9 The Department Geographic Information System

PT completed a computerized search of the New York City Searchable Property Environmental E-Database (SPEED) Geographic Information System (GIS) database. The search was completed under Block 603; Lots 23 and 24. The search included E-Designation, Brownfields, VCP, Hazardous Waste, Solid Waste, Chemical Bulk Storage (CBS), Petroleum Bulk Storage (PBS), Major Oil Storage Facilities (MOSF), RCRA, and NPL locations. The search revealed the following information:

- An E designation was assigned to the subject property as E-110 Hazmat for Underground Storage Tank(s) Testing Protocol.

- No active releases are documented on or adjacent to the property.

A copy of the GIS database search results is included as **Appendix 12**.

5.5 Historical Use Information on Adjoining Properties

Historical use information regarding adjoining properties is discussed in a general context in **Section 5.4**, above.

6.0 Site Reconnaissance

PT conducted the site reconnaissance for this Phase I ESA on July 24, 2014. The Phase I ESA was completed in accordance with ASTM 1527-13. A copy of the site inspection checklist is included as **Appendix 13**. Photo documentation of the site inspection is included as **Appendix 14**. The following subsections provide a summary of the on-site conditions that are pertinent to this investigation.

6.1 Methodology and Limiting Conditions

PT was accompanied by the current property owner, Mr. Pat Pace, during the site inspection. There were no limiting conditions encountered during the site inspection.

6.2 General Site Settings

The site is comprised of two (2) lots, which total approximately 5,850 square feet in size. The site is currently undeveloped and is utilized as a contractor storage yard. The subject property is situated within an urban area with mixed residential, industrial, and commercial operations located within the surrounding area.

6.3 Observations

- PT observed two (2) small soil piles and test pit excavations situated along the center of the northern and southern property boundaries, respectively. Various layers of fill were observed throughout the soils piles as well as along the sidewalls of the excavated areas. Based on these observations, it is likely that fill material has been brought onto the subject property.

- A storage container, which is utilized for the housing of building materials, compressed gas cylinders, and one (1) 55-gallon polyethylene drum, was observed within the northern corner of the subject property. The contents of the drum are unknown and at the time in which the inspection was completed, the drum was noted as having been staged on its side allowing the contents of such to spill onto the wooden floor of the storage container. PT also noted several additional areas of staining along the wooden floor of the storage container.

- Several staging areas consisting of trucks, trailers, miscellaneous building materials, solid waste debris were observed throughout the subject property during the site inspection. PT also observed a total of five (5) 5-gallon pails of mastic and hydraulic fluid situated at various locations throughout the subject property. No visual evidence of a release was noted with the exception of one (1) area of minimally soil, which was located beneath the trucks staged within the northern portion of the property.

- One (1) 55-gallon steel drum was observed within the northern portion of the property. The contents of the drum are unknown. PT noted the structural integrity of the drum appeared to have been compromised, causing it to rupture and discharge its contents onto the ground surface.

7.0 Interviews

7.1 Interview with Owner or Owner Representative

PT interviewed Mr. Pat Pace of Marlboro Builders, the current property owner. Mr. Pace indicated that the property is currently utilized as a contractor storage yard and had previously been utilized as such prior to acquiring the property. Mr. Pace was not aware of any environmental issues or investigations related to the subject property nor was he aware of the current or former presence of any USTs or ASTs which would have been associated with the property. Mr. Pace indicated that the property is proposed to be redeveloped with a three-story residential structure.

7.2 Interview with Site Manager

Not Applicable

7.3 Interviews with Others

Not Applicable

8.0 Findings and Opinions

PT was retained to complete the Phase I ESA for the property located at 430-434 Van Brunt Street in Brooklyn, Kings County, New York. The subject property is further identified as Block 603; Lots 23 and 24. The purpose of the Phase I ESA was to identify potential recognized environmental concerns (RECs) at the property. The Phase I ESA was completed in accordance with ASTM 1527-13. The following paragraphs present a summary findings including suspected or identified RECs, historic RECs and de minimus conditions.

- Review of historic records available for the subject property has indicated that the site was developed for mixed residential and commercial-type operations since as early as 1886 until sometime in the 1960's, when the site was cleared of structures and utilized for contractor storage. PT also notes that the subject property was identified within the E Designation program. According to information reviewed, application for development of the property was submitted to the New York City Environmental Quality Review Board and assigned number OODME013K from the application number 020047 ZMK, based on zoning map 16a. An E designation was assigned to the site on January 30, 2002 as E-110 for Hazmat/Underground Storage Tank(s) Testing Protocol. Based on the E Designation and historic operations with the potential for subsurface features associated with site uses to exist, PT recommends a geophysical survey and soil boring investigation be completed to determine if impacts to the subsurface are present.

- PT observed two (2) small soil piles and test pit excavations situated along the center of the northern and southern property boundaries, respectively. Various layers of fill were observed throughout the soils piles as well as along the sidewalls of the excavated areas. Based on these observations, it is likely that fill material has been brought onto the subject property. PT recommends that historic fill screening should be completed on any on-site soil which may be disturbed or transported off-site for re-use. Additionally, a Health and Safety Plan be implemented to minimize workers' contact with contaminated soil if such is found to exist on-site.

- A storage container, which is utilized for the housing of building materials, compressed gas cylinders, and one (1) 55-gallon polyethylene drum, was observed within the northern corner of the subject property. The contents of the drum are unknown and at the time in which the inspection was completed, the drum was noted as having been staged on its side allowing the contents of such to spill onto the wooden floor of the storage container. PT also noted several additional areas of staining along the wooden floor of the storage container. PT recommends an additional investigation of the shipping container in order to assess the potential for hazardous substances to have been discharged through the wooden floor and onto the ground surface. PT also recommends that proper spill prevention and storage techniques are employed.

- Several staging areas consisting of trucks, trailers, miscellaneous building materials, solid waste debris were observed throughout the subject property during the site inspection. PT also observed a total of five (5) 5-gallon pails of mastic and hydraulic fluid situated at various locations throughout the subject property. No visual evidence of a release was noted with the exception of one (1) area of minimally soil, which was located beneath the trucks staged within the northern portion of the property. PT recommends that the surface stained area be cleaned and properly managed. In the event that the surface staining should be found to extend through to the subsurface, an additional investigation, removal and sampling should be conducted.

- One (1) 55-gallon steel drum was observed within the northern portion of the property. The contents of the drum are unknown. PT noted the structural integrity of the drum appeared to have been compromised, causing it to rupture and discharge its contents onto the ground surface. PT recommends an additional investigation of the drum discharge area be completed to determine if any spill related to such has impacted the subsurface. PT also recommends that proper spill prevention and storage techniques are employed.

- Several sites with potential sources of soil and groundwater contamination were identified in close proximity to the subject property. Identification of such sites was anticipated due to the urban setting of the subject area. Migration of contaminants from these sites to the subject property would most likely be via groundwater and/or vapor. Based on the E-Designation of the subject property and several immediate surrounding areas, PT has recommended that a soil and groundwater investigation should be completed on the site. The investigation will also assess possible indoor air quality impacts from vapor intrusion; including the potential for impacted groundwater, if identified, to volatilize into the proposed building.

9.0 Conclusions

We have performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice I 1527 of the property located at 430-434 Van Brunt Street in Brooklyn, Kings County, New York. The subject property is further identified as Block 603; Lots 23 and 24. Any exceptions to, or deletions from this practice are described in **Sections 2.4**, **2.5**, and **11.0** of this report.

This assessment has revealed no evidence of recognized environmental conditions in connection with the subject property except for the following:

- Historic Utilization/E-Designation (REC-1)
- Historic Fill (REC-2)
- Storage Container (REC-3)
- Material Staging Areas (REC-4)
- Ruptured Drum (REC-5)
- Potential Off-Site Sources of Contamination (REC-6)

10.0 Deviations

PT performed this Phase I ESA in general conformance with the ASTM International *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E 1527-13.* No deviations, limitations or deletions from ASTM International *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E 1527-13* occurred or were imposed by the client during the preparation of this Phase I ESA.

11.0 Additional Services/Non-Scope Considerations

This assessment did not include any additional services/non-scope considerations from ASTM International *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E 1527-13.*

12.0 References

Reference material used to prepare this Phase I ESA report included, but was not limited to:

1. Environmental Data Resources, Inc. (EDR) database report. All reference sources used by EDR in the preparation of the database report are cited within their report. The EDR report is included, in its entirety, in **Appendix 5**.

2. Aerial Photographs, EDR.

3. USGS Topographic Series

4. New York City Searchable Property Environmental E-Database (SPEED) Geographic Information System (GIS) database

5. Geologic Map of New York prepared by the USGS

6. Sanborn Fire Insurance Maps, from EDR.

7. New York City Department of Buildings, Building Information System (BIS).

13.0 Qualifications

I declare that, to the best of my professional knowledge and belief, I meet the definition of *Environmental professional* as defined in §312.10 of 40 CFR 312 and I have the specific qualifications based on education, training, and experience to assess a *property* of the nature, history, and setting of the subject *property*. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Paul Moscatello
Vice President

FIGURES

BROOKLYN, NEW YORK

N

FIGURE 1
SITE LOCATION MAP

PREPARED FOR:
STREKTE
578 DEGRAW STREET
BROOKLYN, NEW YORK

PREPARED BY:
PT CONSULTANTS, INC.
629 CREEK ROAD
BELLMAWR, NEW JERSEY 08031

PT PROJECT # 12090-01	DRAFTSMAN: DTC
DATE: AUGUST 4, 2014	SCALE: 1" = 2000'

APPENDICES

APPENDIX 1
PT PROPOSAL

PT CONSULTANTS, INC.

"ENVIRONMENTAL CONSULTING AND REMEDIATION"

May 8, 2014

Mr. Paul Jensen
STREKTE
578 Degraw Street
PO Box 21041
Brooklyn, New York 11217
(718) 838-3250/Fax(718) 838-3252
Cell (646) 488-0093
Paul@STREKTE.COM

RE: PHASE I ENVIRONMENTAL SITE ASSESSMENT
430-432 VAN BRUNT STREET
BLOCK 603, LOT(S) 23 & 24
BROOKLYN, NEW YORK
PT PROPOSAL#14-1273

Dear Mr. Jensen:

PT Consultants, Inc, (PT) is pleased to provide the following proposal to complete a Phase I Environmental Site Assessment for the property located at 430-432 Van Brunt Street, Brooklyn, New York. The property is also known on the New York City Tax Map as Block 603, Lot(s) 23 and 24.

An application for development of the property was submitted to the New York City Environmental Quality Review Board and assigned number OODME013K from the application number 020047 ZMK, based on zoning map 16a. A review of the application was completed and the site was referred to the New York City Mayors Office Of Environmental Remediation. An E designation was assigned to the site on January 30, 2002 as E-110 for Underground Storage Tank(s) Testing Protocol.

The first step in the E Designation program is to complete an Environmental Assessment of the Property in accordance with ASTM Phase I Standards latest edition.

The purpose of the audit is to comply with Lendor Liability Provisions, NYC -OER requirements, and to identify potential Recognized Environmental Conditions.

A final report will be prepared identifying any REC's and provide recommendations. PT will submit the report and a Short Form Remedial Action Report describing proposed sampling of the site soils, groundwater and soil vapor as part of the Phase II Investigation. Once entered into the E Designation program sampling of the soils and groundwater is required based on the Description provided in the E Designation and any other REC's identified in the Phase I Investigation. Pricing for the Phase II work will be provided after identification of any REC's.

Pricing includes meeting with the NYC-OER office to gain approval for the Phase II Investigation.

629 CREEK ROAD • BELLMAWR, NEW JERSEY 08031 • (856) 251-9980 • FAX (856) 931-1849
121 WEST 27TH STREET • SUITE 1004 • NEW YORK, NEW YORK 10001 • (917) 338-3086
WWW.PTCONSULTANTSINC.COM

PT can complete the above scope of work for a not to exceed fee of $4,500.

All work will be completed in accordance with PT's General Terms and Conditions, a copy of which is attached.

PT can begin work on this project upon your authorization to proceed. Please sign the proposal below and return to our office to act as your authorization.

Thank you for the opportunity to be of service. If you have any questions feel free to contact me at 856-251-9980 or via cell phone at 732-672-0239.

Very truly yours,

PT CONSULTANTS INC

Paul Moscatello

Paul Moscatello
Vice President

Authorized By: PAUL JENSEN
AS PROXY FOR PASQUALE PERE
MARLBORO BUILDERS LLC 8/7/2014

Date:

PT CONSULTANTS, INC.

TERMS AND CONDITIONS

1. **Nature of Agreement** These Terms and Conditions shall apply to all work performed by PT Consultants, Inc. ("PT") under the attached Proposal and any work undertaken for the Client which becomes the subject of a future proposal, including any services rendered by an employee of PT as a Licensed Site Remediation Professional (LSRP) under New Jersey law. The Terms and Conditions and Proposal, including any amendments, constitute the Agreement between the parties.

2. **Client's Responsibilities/ Scope of Work** Client understands that the scope of work and any time schedule defined in the Proposal are based on information provided by the Client. If this information is incomplete or inaccurate, or if unexpected conditions are discovered, the scope of work may change, even as the work is in progress.

3. **Charges, Billing and Payment** The client shall pay PT in accordance with the Agreement. PT shall submit monthly invoices to the Client for services rendered. Payment is due upon presentation of an invoice and is past due thirty days from the date of each invoice. The Client agrees to pay a finance charge of one and one half (1 ½%) percent per month, or the maximum rate allowed by law, on past due accounts, whichever is greater. In the event that the invoice is not paid voluntarily and promptly, and must be referred to an attorney or agency for collection, the Client agrees to pay a collection fee equal to the actual attorney or agency collection fee incurred by PT. All past due payments which are made shall be applied first to accrued interest and then to the principal unpaid amount.

If the client objects to all or any portion of the invoice, the client shall also notify PT, in writing, of its objection within ten (10) business days from the date of the invoice, give reasons for the objection, and pay the portion of the invoice not in dispute. In the event that payment to PT is not maintained on a thirty (30) day current basis, PT may, upon providing ten (10) days written notice to the Client, suspend any further performance and withhold any and all data from the Client until such invoiced payment(s) is restored to a current basis.

Any invoices that are not paid within thirty (30) days of a Client's receipt of collection action notification by an attorney or collection agency shall constitute a release of PT from any and all claims whatsoever, including, but not limited to, tort, or contract claims, which Client may have against PT for services performed under said invoice(s).

It is anticipated that fees and expenses charged by PT will increase in subsequent years, and PT shall provide Client with at least thirty days written notice before effectuating such change. Any fees and costs billed to Client for work performed after termination of this Agreement arising out of or related to performance as an LSRP shall be charged at the rates set forth in PT's then current fee schedule.

Initial _____

4. **Legal Obligations of LSRP** The Parties acknowledge that an LSRP must comply fully with the various provisions of the New Jersey Site Remediation Reform Act (SRRA) and other applicable laws, regulations and guidelines. Under New Jersey law, an LSRP's "highest priority in the performance of professional services shall be the protection of public health and safety and the environment." Accordingly, while LSRP, when allowed to do so by law, will seek to take into consideration the views of Client with respect to the remediation, Client acknowledges that an LSRP is obligated by law to exercise his or her independent, professional judgment and make decisions and submit reports and communications to the NJDEP which may not be in accord with the preferences or interests of Client. Compliance by the LSRP with the obligations imposed upon LSRPs by law or regulation shall not be a ground for the Client to withhold payment or claim a breach of LSRP's duty to Client. Furthermore, under the SRRA, no person may retaliate against an LSRP based upon any of the grounds set forth in the Act.

5. **Penalties and Fees** The SRRA and its implementing regulations provide for the imposition of certain penalties for noncompliance with requirements of the SRRA and other laws and regulations. They also require that certain fees be paid, some on an annual basis, by those parties responsible for the remediation of a contaminated site. Moreover, noncompliance with SRRA and other laws and regulations can lead to the NJDEP assuming direct oversight of a remediation. Client agrees that under no circumstances shall PT or LSRP be responsible to pay such penalties or fees or be responsible for any increased costs resulting from the NJDEP's direct oversight of the remediation.

6. **NJDEP Audits** Under the SRRA, upon completion of the remediation, an LSRP shall issue a Response Action Outcome ("RAO") when in the opinion of the LSRP, the site has been remediated so that it is in compliance with all applicable statutes, rules and regulations protective of public health, safety and the environment. The NJDEP will then have the opportunity, usually for a period of three years from issuance of the RAO, to audit the RAO and invalidate it if it deems such invalidation to be appropriate. The parties agree that any services rendered or costs charged by PT, whether prior to or following the termination of this Agreement, arising out of or related to the audit of an RAO, including the cost of any further remediation required by the NJDEP, shall be borne solely by Client. Client acknowledges that a determination by the NJDEP that an RAO will be invalidated does not mean that LSRP has performed his or her work in an improper or sub-standard manner.

7. **Documents**

a. An LSRP is required to maintain all data, documents and information, including, but not limited to technical records, contractual documents, raw sampling and monitoring data concerning remediation activities, whether or not these data, information and documents were developed by the LSRP. Subject to limited claims of confidentiality, the LSRP must also provide these documents, data and information to the NJDEP, other governmental entities and members of the public upon request and to the NJDEP upon issuance of the RAO. Client agrees to pay PT, both prior to and after the termination of this Agreement, for all services rendered and

Initial _____

costs incurred related to the providing of documents, whether relating to the services of an LSRP or otherwise, or claims that any document should not be provided.

b. Any reuse of documents without written approval by PT shall be at Client's sole risk, and Client shall indemnify, defend and hold PT and LSRP harmless from all claims, damages and losses and expenses, including attorneys fees resulting therefrom. If Client seeks written approval from PT or LSRP for such use, PT shall be entitled to charge Client for the services rendered in evaluating the documents prior to deciding whether to grant such approval.

c. PT will retain the Site file for such time as is required by law. In the absence of any written instructions to the contrary from Client and agreement with Client, PT shall be able to discard any and all documents when it is legally permitted to do so.

8. **Limited Warranty** PT and its employees, including those serving as LSRPs, shall exercise reasonable care and diligence and shall apply the knowledge and skill ordinarily exercised by professionals performing such services who are in good standing in the area where the work is performed at the time that the services are performed. This warranty shall extend for a period of one year from the date that the service in question was rendered and shall be the sole warranty given by PT, and if applicable, the LSRP to Client. Specifically, but without limitation, PT and LSRP make no representation or warranty that the services of PT or the LSRP will be deemed satisfactory by the NJDEP, that the NJDEP will not determine that there are deficiencies which must be corrected, or that the NJDEP will not determine that an RAO issued by LSRP should be invalidated and additional remediation performed.

9. **Indemnification** To the fullest extent permitted by law Client shall indemnify, defend and hold harmless, PT, and its subcontractors, consultants, agents, officers, directors, and employees, including any LSRP employed by PT (herein collectively referred to as "Consultant") from and against all claims, damages, losses and expenses, whether direct, indirect or consequential, including but not limited to fees and charges of attorneys and all other expenses of litigation, arising out of, related to or resulting from the services of Consultant or any claims against Consultant arising from the acts, omissions or work of others, unless a judgment has been entered that the Consultant was negligent and that such negligence was the sole cause of the loss or injury.

10. **Limitation of Damages** The parties agree that the Consultant has neither created, nor contributed to the creation or existence of any hazardous, radioactive, toxic, irritant, pollution, or other dangerous substance or conditions at the Site, and that its compensation is in no way commensurate with the potential risk or injury or loss that may be caused by exposures to such substances and/or conditions. Accordingly, Client agrees that the liability of Consultant for any damage or injury covered by insurance shall be limited to the amount of the available limits of liability of the policy or policies which protects Consultant against the claim in question. Under no circumstances, shall Consultant be responsible for indirect or consequential damages, including, but not limited to, loss of profits.

The limitation of liability established under this Agreement shall survive the expiration or

Initial _____

termination of this Agreement and shall apply to any additional services provided as the result of additional work orders, change orders, other Client directives, or requirements of law.

11 **Termination of Services** Either party may terminate this Agreement upon the giving of at least 14 days written notice to the other. Under the SRRA, the NJDEP must be notified whenever the services of an LSRP are terminated. Client shall be responsible for any unpaid fees and expenses incurred by Client prior to termination. Client also agrees to pay to pay PT for all charges relating to the procedures required by the SRRA and/or other laws and regulations concerning the termination of LSRP's services and the orderly transfer of the Site file. PT and LSRP shall have no obligation to reproduce any part of the Site file if Client is not current in its payments.

12. **Governing Law and Consent to Jurisdiction** This Agreement shall be governed by the laws of the State of New Jersey, irrespective of the principles of conflicts of law applicable therein. Client and PT agree that any dispute arising under this Agreement, except one to collect a judgment or involving a bankruptcy, shall be brought exclusively in the Superior Court of New Jersey, Camden County or the U.S. District Court for the District of New Jersey sitting in Camden and the parties consent to the jurisdiction of those Courts.

13. **Right of Entry** Client hereby grants PT and its subcontractors the right to enter the property which is the subject of the proposal in order to fulfill the scope of work described. Client understands that the use of exploration equipment may cause some disturbances to the property. Prior to work, PT will complete the necessary utility notification call. PT shall not be responsible for damage or injury to unmarked utilities or subterranean structure(s)/utilities which are not specifically identified or located by the client.

14. **Notices** Any written notice required to be given by one party to the other under this Agreement shall be sent by certified mail, fax, overnight mail by a recognized delivery service, or hand delivery to the address of that party set forth on the first page of the Proposal or such other address as may subsequently be given by the party in question.

15. **Independent Contractor** In performing services, PT, including an LSRP employed by PT, shall be an independent contractor and not an agent or employee of Client.

16. **Binding Effect/No Reliance** This Agreement is for the benefit only of PT, including, if applicable, the LSRP, and Client, as well as their successors in interest. No other individual or entity shall have any right to rely upon the terms of this Agreement or on the services rendered hereunder.

17. **Entire Agreement/Modification** This Agreement entails the full and complete understanding between parties with respect to the subject services, and no addition or modification of or waiver of any provision of this Agreement shall be binding on either party unless made in writing and executed by an officer of PT and by Client. If any portion of this

Initial _____

Agreement is held invalid or unenforceable, all remaining portions shall continue in full force and effect.

18. **Survival of Obligations** It is agreed that these Terms and Conditions shall survive termination of the Agreement.

19. **Guaranty** If an individual or entity signs the Proposal as "Guarantor," the Guarantor so designated hereby guarantees all obligations of Client under this Agreement. Guarantor waives notice of presentment and dishonor and any other technical notices which may otherwise be required to be provided to guarantors. PT may pursue Guarantor for payment as if Guarantor was liable in the first instance for the sums in question and PT shall not be obligated to first seek or pursue payment from Client before pursuing Guarantor.

Initial PJ

APPENDIX 2
QUALIFICATIONS

PROFESSIONAL PROFILE

DENIS CUMMINGS

REGISTRATIONS/CERTIFICATIONS

- 40-Hour OSHA HAZWOPER Training - 29 CFR 1910-120
- 8-Hour Annual OSHA HAZWOPER Refresher –March 2014
- AHERA Certified Asbestos Inspector
- Licensed Asbestos Investigator - Philadelphia, PA
- Certified Lead Renovator – USEPA (CLR)

EDUCATION

B.S. in Environmental Sciences, Richard Stockton College of New Jersey, in Pomona, NJ, 2005

EXPERIENCE SUMMARY

Mr. Cummings has over eight years of experience in various aspects of environmental investigations, including services related to geology, soil and groundwater characterization, soil and groundwater remediation, underground storage tank (UST) closures, soil vapor investigations, indoor air quality, and asbestos surveys. Mr. Cummings also has experience in construction phase related projects, as well as conducting geotechnical investigation projects.

In his capacity as an Environmental Scientist, Mr. Cummings performs Phase I and Phase II environmental site assessments, remedial investigation and remediation activities. Mr. Cummings has overseen well installations in numerous hydrogeologic settings using a full-range of drilling techniques, including air rotary, direct-push, and hollow-stem augers. Mr. Cummings has supervised and/or conducted various sampling and remediation activities, including soil /groundwater sampling, subsurface vapor sampling, ambient air sampling, UST Closure activities, remedial excavation activities, remedial injections, and remediation system installations. Mr. Cummings has performed asbestos sampling including locating and identifying potential asbestos, taking samples and reporting the chain of custody. Additional experience includes Ground Penetration Radar, nuclear density and moisture testing, Global Positioning Systems, and concrete sampling. Mr. Cummings' strong field evaluation and report skills, coupled with his in-depth knowledge of the regulations, enables him to provide cost-effective strategies while reducing liabilities.

KEY PROJECT EXPERIENCE

- Experience in performing Phase I Environmental Site Assessments and Preliminary Assessments for real estate transactions by completing database searches of federal, state and local government files, reviewing aerial photographs, interviewing, performing site reconnaissance, and preparing reports. His experience includes New Jersey, Pennsylvania, New York, Connecticut, Maryland, and Delaware.

- Supervised well installations and conducted sampling in numerous hydrogeologoic settings. Work included well gauging, surveying, and data analysis. Completion of sensitive receptor surveys and Groundwater contour maps.

- Provided coordination, oversight, and conducted investigations at numerous locations requiring delineation and removal of contaminated media.

- Experience performing site investigations including: groundwater sampling, ground-penetrating radar survey, magnetic line locating surveys, GEOPROBE investigations.

- Experience in performing indoor air quality investigations for mold complaints.

- Conducted air monitoring and bulk sampling for asbestos sampling and abatement projects

- Provided oversight regarding the installation of a geosynthetic cap for a NPL site in Pennsylvania for redevelopment.

- Experience performing tank removals in New Jersey and Pennsylvania.

- Conducted oversight at large-scale construction projects including: regrading activities, seeding, installation of lighting and utilities, earthmoving, surveying, road design, and erosion and sediment control.

PROFESSIONAL PROFILE

PAUL A. MOSCATELLO

REGISTRATIONS/CERTIFICATIONS

NJDEP TANK CLOSURE CERTIFICATION #0011236
PADEP UMR #4172
AHERA Certified Asbestos Building Inspector
Florida Pollutant Storage Contractors License
OSHA 40 Hour Certified
OSHA 8 Hour Supervisor Training
OSHA 8 Hour Update
Competent Person

EXPERIENCE SUMMARY

Mr. Moscatello has thirty years experience in environmental services related to Phase I and Phase II investigations, Asbestos surveys, Asbestos air monitoring and oversight, hazardous waste, industrial site cleanup and installations of remedial systems. He has worked on a wide range of environmental investigations throughout the United States. Mr. Moscatello also has extensive experience with State and Federal Underground Storage Tank Regulations in New Jersey, New York, Rhode Island, Massachusettes, Pennsylvania, Florida, Virginia, Maryland, Delaware and Connecticut.

EDUCATION

B.S., Business Administration, Stockton State College of Pomona, New Jersey, 1985

Underground Storage Tank Seminar, Rutgers University

KEY PROJECT EXPERIENCE

- Organized and managed former industrial site clean-up from Phase I Investigation through final NJDEP clearance. Responsibilities include obtaining and submitting funding for state grants, such as, green acres and hazardous site remediation.

- Performed investigations in Pennsylvania following the Pennsylvania Land Recycling Regulation.

- Performed investigations in New Jersey following the current Brownfields Regulations as they relate to the Technical Requirements for Site Remediation.
- Performed the installation and operation/maintenance of remedial systems.
- Performed tank removal and installations throughout the East Coast.
- Coordinate environmental projects and environmental assessments throughout the East Coast.
- Perform field supervision activities for tank removal throughout the East Coast.
- Managed classification, disposal and transportation of hazardous materials throughout the United States.
- Prepared permits regarding UST regulations in New Jersey (Closure Approval and Substantial Modification).

PERSONAL AFFILIATIONS

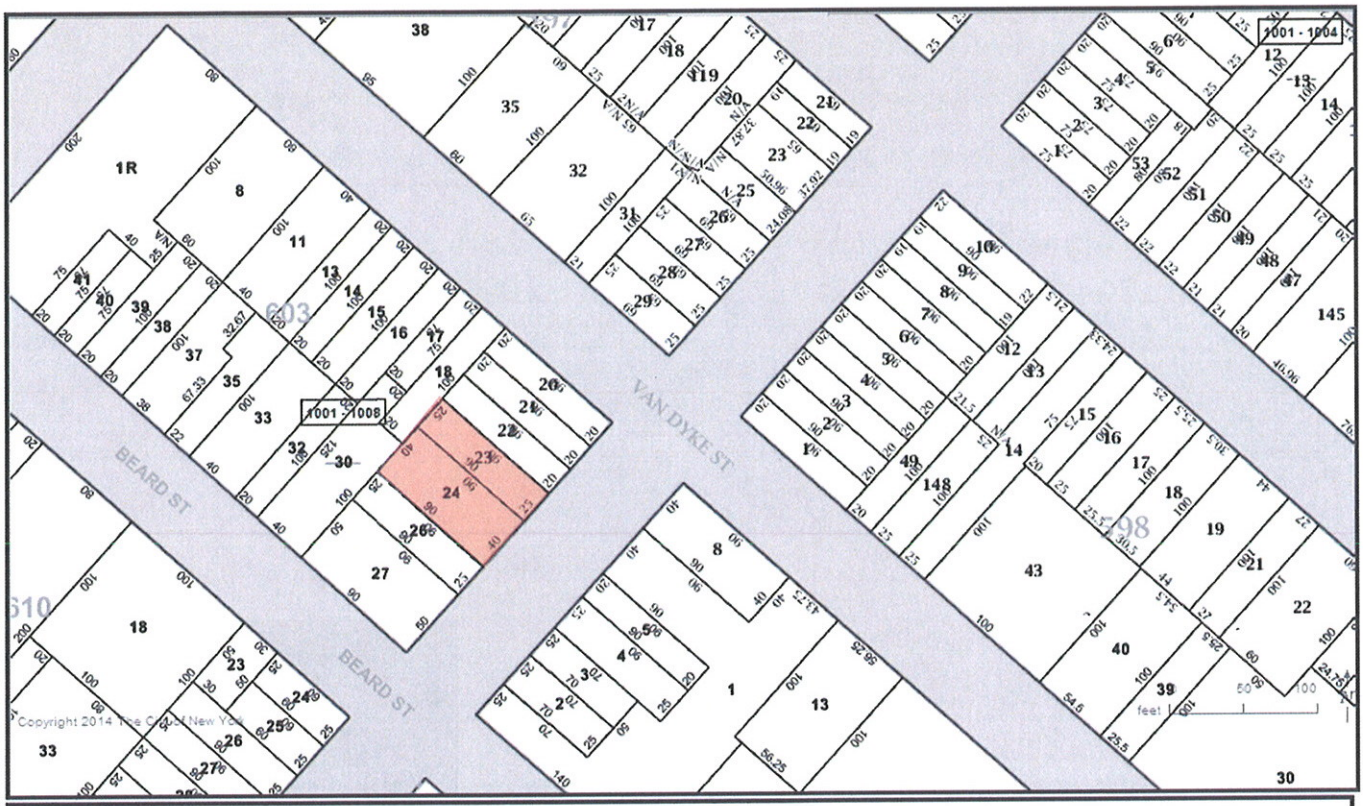
Chairman of Hazardous Waste Committee for Utility Transportation Contractors Association

South Kearny Industrial Association

APPENDIX 3
TAX MAP

Tax Map - 7/29/2014

Digital Tax Map - New York City Dept. of Finance



— —	Borough Boundary	C50	Condo Flag/Condo Nunber
═══	Tax Block Boundary	A50	Air Right Flag/Lot Number
50	Tax Block Number	S50	Subterranean Right Flag/Lot Number
———	Tax Lot Boundary	R	REUC Flag
50	Tax Lot Number	- - - - -	Under Water Tax Lot Boundary
~~50~~	Condo FKA Tax Lot Number	—·—·—	Other Boundary
50.5	Tax Lot Dimension	⤵	Possession Hook
+/-5.5	Approximate Tax Lot Dimension	Misc	Miscelaneous Text
1500 - 1550	Condo Units Range Label	○	Small Tax Lot Dimension
	Building Footprint		Surface Water

APPENDIX 4
USER QUESTIONNAIRE

Interview with Property Owner/Site Representative

Name: PASQUALE PACE
Title: OWNER
Phone 917 939 1194

(A) Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state, or local law? NO

(B) Are you aware of any AULs (activity use limitations), such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law? NO

(C) Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example:

1. **To the best of your knowledge, what is the history (previous uses, construction/development dates, etc) of the property?**
   VACANT LAND USED ~~TO STORE CONCRETE FORMS~~ FOR CONTRACTOR STORAGE
2. **To the best of your knowledge, are there now, or have there been in the past, any underground or above ground storage tanks located on the target property?** NO
3. **To the best of your knowledge, are you aware of any releases of hazardous substances or petroleum products on or near the property?** NO
4. Do you know of any environmental cleanups that have taken place at the property? NO

(D) Do you have any of the following documents that are available for review (ESAs – Phase I or II, Compliance/Audit reports, environmental permits, UST or AST registrations, underground injection permits or registrations, MSDS sheets, right to know documents, SPCC plans, hydrologic or geotechnical reports, notices of violations or liens, hazardous waste generator reports, risk assessments, or AULs)?

NO

USER Questionnaire

In order to qualify for one of the Landowner Liability Protections (LLPs)[1] offered by the Small Business Liability Relief and Brownfields Revitalization Act (the "Brownfields Amendments"),[2] the *user* **must provide** the following information (if available) to the *environmental professional*. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete.

1. **Environmental cleanup liens that are filed or recorded against the site (40 C.F.R. 312.25).**

   Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law? NO

2. **Activity and land use limitations that are in place on the site or have that been filed or recorded in a registry (40 C.F.R. 312.26).**

   Are you aware of any AULs, such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law? NO

3. **Specialized knowledge or experience of the person seeking to qualify for the LLP (40 C.F.R. 312.28).**

   As the user of this ESA do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business? NO

4. **Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 C.F.R. 312.29).**

   Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? YES

---

1 Landowner Liability Protections, or LLPs, is the term used to describe the three types of potential defenses to the Superfund liability in EPA's *Interim Guidance Regarding Criteria Landowners Must Meet in Order to Qualify for Bona Fide Prospective Purchaser, Contiguous Property Owner, or Innocent Landowner Limitations on CERCLA Liability ("Common Element" Guide)* issued on March 6, 2003.

2 P.L. 107-118.

5. **Commonly known or reasonably ascertainable information about the property (40 C.F.R. 312.30).**

Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of the releases or threatened releases? For example, as user,

a) Do you know the past uses of the property? NO

b) Do you know of specific chemicals that are present or once were present at the property?

NO

c) Do you know of spills or other chemical releases that have taken place at the property?

NO

d) Do you know of any environmental cleanups that have taken place at the property?

NO

6. **The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 C.F.R. 312.31).**

As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence of likely presence of contamination at the property?

NO

In addition, certain information should be collected, if available, and provided to the environmental professional selected to conduct the Phase I. This information is intended to assist the environmental professional but is not necessarily required to qualify for one of the LLPs. The information includes:

- the reason why the Phase I is required,
- the type of property and type of property transaction, for example, sale, purchase, exchange, etc.,
- the scope of services desired for the Phase I (including whether any parties to the property transaction may have a required standard scope of services or whether any considerations beyond the requirements of Practice E 1527 are to be considered),
- identification of all parties who will rely on the Phase I report,
- identification of the site contact and how the contact can be reached,
- any special terms and conditions which must be agreed upon by the environmental professional,
- any other knowledge or experience with the property that may be pertinent to the environmental professional (for example, copies of any available prior environmental site assessment reports, documents, correspondence, etc., concerning the property and its environmental condition).

User PROXY FOR PASQUALE PACE

2014.8.7

Date

APPENDIX 5
EDR REPORT

430-432 Van Brunt Street
430-432 VAN BRUNT ST
Brooklyn, NY 11231

Inquiry Number: 4017064.2s
July 25, 2014

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800 352 0050
www.edrnet.com

FORM LBC-PXM

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	252
Government Records Searched/Data Currency Tracking	GR-1
GEOCHECK ADDENDUM	
Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-7
Physical Setting Source Map Findings	A-8
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

430-432 VAN BRUNT ST
BROOKLYN, NY 11231

COORDINATES

Latitude (North):	40.6756000 - 40' 40' 32.16"
Longitude (West):	74.0153000 - 74' 0' 55.08"
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	583222.3
UTM Y (Meters):	4503001.5
Elevation:	8 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	40074-F1 JERSEY CITY, NJ NY
Most Recent Revision:	1981
East Map:	40073-F8 BROOKLYN, NY
Most Recent Revision:	1995

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20110705, 20100731
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
ROADWAY 430 VAN BRUNT ST BROOKLYN, NY	NY Spills Spill Number/Closed Date: 9607095 / 9/5/1996	N/A
430 VAN BRUNT 430 VAN BRUNT BROOKLYN, NY 11231	ERNS	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls
LUCIS..... Land Use Control Information System

State- and tribal - equivalent CERCLIS

VAPOR REOPENED..... Vapor Intrusion Legacy Site List

State and tribal leaking storage tank lists

HIST LTANKS..... Listing of Leaking Storage Tanks

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

TANKS..... Storage Tank Faciliy Listing
CBS UST..... Chemical Bulk Storage Database
MOSF UST..... Major Oil Storage Facilities Database
MOSF AST..... Major Oil Storage Facilities Database
MOSF..... Major Oil Storage Facility Site Listing
INDIAN UST..... Underground Storage Tanks on Indian Land
FEMA UST..... Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

RES DECL..... Restrictive Declarations Listing

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

ERP..... Environmental Restoration Program Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

ODI..... Open Dump Inventory
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
SWTIRE..... Registered Waste Tire Storage & Facility List
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs
US HIST CDL..... National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

HIST AST..... Historical Petroleum Bulk Storage Database

Local Land Records

LIENS 2..... CERCLA Lien Information
LIENS..... Spill Liens Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

NY Hist Spills..... SPILLS Database
SPILLS 80..... SPILLS 80 data from FirstSearch

Other Ascertainable Records

DOT OPS..... Incident and Accident Data
DOD..... Department of Defense Sites
CONSENT..... Superfund (CERCLA) Consent Decrees
ROD..... Records Of Decision
UMTRA..... Uranium Mill Tailings Sites
US MINES..... Mines Master Index File
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
SSTS..... Section 7 Tracking Systems
ICIS..... Integrated Compliance Information System
PADS..... PCB Activity Database System
MLTS..... Material Licensing Tracking System
RADINFO..... Radiation Information Database
FINDS..... Facility Index System/Facility Registry System
RAATS..... RCRA Administrative Action Tracking System
RMP..... Risk Management Plans
HSWDS..... Hazardous Substance Waste Disposal Site Inventory
UIC..... Underground Injection Control Wells
DRYCLEANERS..... Registered Drycleaners
SPDES..... State Pollutant Discharge Elimination System
AIRS..... Air Emissions Data
INDIAN RESERV..... Indian Reservations
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
Financial Assurance..... Financial Assurance Information Listing
2020 COR ACTION..... 2020 Corrective Action Program List
LEAD SMELTERS..... Lead Smelter Sites
PRP..... Potentially Responsible Parties
US AIRS..... Aerometric Information Retrieval System Facility Subsystem
US FIN ASSUR..... Financial Assurance Information
PCB TRANSFORMER..... PCB Transformer Registration Database
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
COAL ASH..... Coal Ash Disposal Site Listing
COAL ASH DOE..... Steam-Electric Plant Operation Data
EPA WATCH LIST..... EPA WATCH LIST

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP..... EDR Proprietary Manufactured Gas Plants
EDR US Hist Cleaners..... EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF..... Recovered Government Archive Solid Waste Facilities List

EXECUTIVE SUMMARY

RGA HWS..... Recovered Government Archive State Hazardous Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 10/25/2013 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BROOKHATTAN SMELTING & REFININ	162 RICHARDS ST	ENE 1/8 - 1/4 (0.236 mi.)	83	156

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/11/2014 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NYC DEPT OF ED - PUBLIC SCHOOL	71 SULLIVAN ST	NE 1/8 - 1/4 (0.225 mi.)	O76	148

EXECUTIVE SUMMARY

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 03/11/2014 has revealed that there are 3 RCRA-CESQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CON EDISON MANHOLE: 43857	COFFEY ST & VAN BRUNT	NE 0 - 1/8 (0.075 mi.)	E26	40
CON EDISON MANHOLE: 43655	VAN BRUNT ST & DIKEMAN	NE 0 - 1/8 (0.125 mi.)	47	67

Lower Elevation	Address	Direction / Distance	Map ID	Page
BARGE AUTO BODY INC	***34 COFFEY ST***	***ESE 1/8 - 1/4 (0.221 mi.)***	***N70***	***124***

State- and tribal - equivalent CERCLIS

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Conservation's Inactive Hazardous waste Disposal Sites in New York State.

A review of the SHWS list, as provided by EDR, and dated 05/19/2014 has revealed that there are 5 SHWS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHEMTURA 633 COURT STREET	633 COURT STREET	ESE 1/2 - 1 (0.802 mi.)	103	222
Class Code: Significant threat to the public health or environment - action required.				

Lower Elevation	Address	Direction / Distance	Map ID	Page
CHEM TURA	***688-700 COURT ST***	***ESE 1/2 - 1 (0.809 mi.)***	***104***	***226***
Class Code: Significant threat to the public health or environment - action required.				
RED HOOK SMITH STREET	***627 SMITH ST.***	***ESE 1/2 - 1 (0.870 mi.)***	***105***	***244***
CASTLE WILLIAMS, GOVERNORS ISL	GOVERNOR'S ISLAND	NNW 1/2 - 1 (0.957 mi.)	S106	247
FORT JAY DOD GRANT	GOVERNORS ISLAND	NNW 1/2 - 1 (0.957 mi.)	S107	248

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the list.

A review of the SWF/LF list, as provided by EDR, and dated 04/09/2014 has revealed that there are 5 SWF/LF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CONOVER TRANSFER STATION	143-47 WALCOTT ST	NNE 1/8 - 1/4 (0.195 mi.)	K62	104

Lower Elevation	Address	Direction / Distance	Map ID	Page
ACCURATE ASBESTOS	39 FERRIS STREET	N 1/4 - 1/2 (0.289 mi.)	Q87	164

Lower Elevation	Address	Direction / Distance	Map ID	Page
ALLSTATE MEDICAL WASTE DISPOSA	27-29 BAY STREET	ESE 1/4 - 1/2 (0.349 mi.)	95	205
WASTE MANAGEMENT (EASTERN) (AL	518-526 COLUMBIA ST	ESE 1/4 - 1/2 (0.397 mi.)	96	205
BROOKLYN CRUSHED MATERIALS; IN	640 COLUMBIA ST	SE 1/4 - 1/2 (0.448 mi.)	98	209

State and tribal leaking storage tank lists

LTANKS: Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills

A review of the LTANKS list, as provided by EDR, and dated 05/19/2014 has revealed that there are 11 LTANKS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RED HOOK WEST	***11 LORRAINE STREET***	***E 1/4 - 1/2 (0.324 mi.)***	***93***	***193***
Spill Number/Closed Date: 9105606 / 12/19/2005				
Spill Number/Closed Date: 9200022 / 12/19/2005				
RED HOOK WEST	***82 DWIGHT STREET - PLAN***	***E 1/4 - 1/2 (0.336 mi.)***	***94***	***199***
Spill Number/Closed Date: 9011065 / 7/3/1996				
MOBIL GAS STATION	***50-25 BAY PARKWAY***	***ESE 1/4 - 1/2 (0.398 mi.)***	***97***	***207***
Spill Number/Closed Date: 9407907 / 12/6/1994				
WAREHOUSE	80 RICHARDS STREET	ENE 1/4 - 1/2 (0.449 mi.)	99	210
Spill Number/Closed Date: 0310837 / 2/13/2004				
RED HOOK EAST -NYCHA	37 CENTER MALL	E 1/4 - 1/2 (0.464 mi.)	100	211
Spill Number/Closed Date: 9011672 / 2/8/2013				
RED HOOK WEST	***420 COLUMBIA STREET***	***ENE 1/4 - 1/2 (0.465 mi.)***	***101***	***213***
Spill Number/Closed Date: 9200023 / 12/20/2005				
Spill Number/Closed Date: 9011015 / 12/20/2005				
RED HOOK WEST -NYCHA	85 LORRAINE STREET	ESE 1/4 - 1/2 (0.492 mi.)	102	220
Spill Number/Closed Date: 9011066 / 7/18/2013				

Lower Elevation	Address	Direction / Distance	Map ID	Page
REVERE SUGAR CORP	***280 RICHARDS ST***	***SSE 1/8 - 1/4 (0.133 mi.)***	***H51***	***77***
Spill Number/Closed Date: 9001856 / 12/6/1991				
WHALECO FUEL CORP	***1 COFFEY ST***	***ESE 1/4 - 1/2 (0.291 mi.)***	***88***	***165***
Spill Number/Closed Date: 9714140 / 2/6/2006				
PORT AUTHORITY MARINE	32 FERRIS STREET	N 1/4 - 1/2 (0.307 mi.)	Q89	166
Spill Number/Closed Date: 9914821 / 10/9/2001				
IKEA RED HOOK	***1 BEARD STREET***	***SE 1/4 - 1/2 (0.321 mi.)***	***R90***	***167***
Spill Number/Closed Date: 9210149 / 3/10/2003				
Spill Number/Closed Date: 9103482 / 3/14/2003				
Spill Number/Closed Date: 9012051 / 2/19/1991				

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the UST list, as provided by EDR, and dated 03/31/2014 has revealed that there are 7 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NECHANAH & RAFAEL, LLC	175 BEARD STREET	W 0 - 1/8 (0.039 mi.)	D20	29
MATTHEW RUGGIERO PLUMBING CO.	125 DIKEMAN STREET	NNE 1/8 - 1/4 (0.126 mi.)	48	68
202 COFFEY STREET ASSOCIATES	202 COFFEY STREET	NNW 1/8 - 1/4 (0.197 mi.)	L64	109
CUPIE BUS	165 WOLCOTT STREET	N 1/8 - 1/4 (0.224 mi.)	73	134

Lower Elevation	Address	Direction / Distance	Map ID	Page
221-229 RICHARDS STREET	221 RICHARDS STREET	ESE 1/8 - 1/4 (0.128 mi.)	50	72
REVERE SUGAR CORPORATION	***280 RICHARDS STREET***	***SSE 1/8 - 1/4 (0.133 mi.)***	***H53***	***85***
KARBO BRONZE FOUNDRIES	***24 VAN DYKE ST***	***SE 1/8 - 1/4 (0.248 mi.)***	***P85***	***159***

AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database.

A review of the AST list, as provided by EDR, and dated 03/31/2014 has revealed that there are 6 AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CUPIE TRANSPORTATION CORP.	***145-147 WOLCOTT STREET***	***NNE 1/8 - 1/4 (0.198 mi.)***	***K65***	***111***
NYC DEPT OF ED - PUBLIC SCHOOL	***71 SULLIVAN ST***	***NE 1/8 - 1/4 (0.225 mi.)***	***O75***	***141***

Lower Elevation	Address	Direction / Distance	Map ID	Page
AHAVA FOOD CORP	118 BEARD STREET	SSE 0 - 1/8 (0.073 mi.)	24	36
CORNELL PAPER BOX INC.	180 VAN DYKE STREET	NW 0 - 1/8 (0.119 mi.)	45	64
REVERE SUGAR CORPORATION	***280 RICHARDS STREET***	***SSE 1/8 - 1/4 (0.133 mi.)***	***H53***	***85***
KARBO BRONZE FOUNDRIES	***24 VAN DYKE ST***	***SE 1/8 - 1/4 (0.248 mi.)***	***P85***	***159***

CBS AST: Chemical Bulk Storage Database. Registration data collected as required by 6 NYCRR Part 596. It includes facilities storing hazardous substances listed in 6 NYCRR Part 597, in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size. Includes facilities registered (and closed) since effective date of CBS regulations (July 15, 1988) through the date request is processed.

A review of the CBS AST list, as provided by EDR, and dated 01/01/2002 has revealed that there are 2 CBS AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KINGS COUNTY CONCRETE CO.	***206 COFFEE ST.***	***NNW 1/8 - 1/4 (0.195 mi.)***	***L63***	***105***
KINGS COUNTY CONCRETE	***CROPSEY AVE.***	***NW 1/8 - 1/4 (0.203 mi.)***	***67***	***121***

CBS: These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

A review of the CBS list, as provided by EDR, and dated 03/31/2014 has revealed that there are 2 CBS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KINGS COUNTY CONCRETE CO.	*206 COFFEE ST.*	*NNW 1/8 - 1/4 (0.195 mi.)*	*L63*	*105*
KINGS COUNTY CONCRETE	*CROPSEY AVE.*	*NW 1/8 - 1/4 (0.203 mi.)*	*67*	*121*

State and tribal institutional control / engineering control registries

ENG CONTROLS: Environmental Remediation sites that have engineering controls in place.

A review of the ENG CONTROLS list, as provided by EDR, and dated 05/19/2014 has revealed that there is 1 ENG CONTROLS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
U. S. DREDGING SHIPYARD SITE	*ONE BEARD STREET*	*SE 1/4 - 1/2 (0.321 mi.)*	*R91*	*181*

INST CONTROL: Environmental Remediation sites that have institutional controls in place.

A review of the INST CONTROL list, as provided by EDR, and dated 05/19/2014 has revealed that there is 1 INST CONTROL site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
U. S. DREDGING SHIPYARD SITE	*ONE BEARD STREET*	*SE 1/4 - 1/2 (0.321 mi.)*	*R91*	*181*

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Agreements. The voluntary remedial program uses private monies to get contaminated sites remediated to levels allowing for the sites' productive use. The program covers virtually any kind of site and contamination.

A review of the VCP list, as provided by EDR, and dated 05/19/2014 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
U.S. DREDGING SHIPYARD SITE	ONE BEARD STREET	SE 1/4 - 1/2 (0.321 mi.)	R92	193

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site List

A review of the BROWNFIELDS list, as provided by EDR, and dated 05/19/2014 has revealed that there is

1 BROWNFIELDS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
U. S. DREDGING SHIPYARD SITE	*ONE BEARD STREET*	*SE 1/4 - 1/2 (0.321 mi.)*	*R91*	*181*

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

Registered Recycling Facility List from the Department of Environmental Conservation.

A review of the SWRCY list, as provided by EDR, and dated 04/09/2014 has revealed that there is 1 SWRCY site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
IKEA RED HOOK	*1 BEARD STREET*	*SE 1/4 - 1/2 (0.321 mi.)*	*R90*	*167*

Local Lists of Hazardous waste / Contaminated Sites

DEL SHWS: A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

A review of the DEL SHWS list, as provided by EDR, and dated 05/19/2014 has revealed that there is 1 DEL SHWS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CARROLL GARDENS	CORNER OF 5TH STREET &	E 1/2 - 1 (0.997 mi.)	108	249

Local Lists of Registered Storage Tanks

HIST UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the HIST UST list, as provided by EDR, and dated 01/01/2002 has revealed that there are 2 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CUPIE TRANSPORTATION CORP.	*145-147 WOLCOTT STREET*	*NNE 1/8 - 1/4 (0.198 mi.)*	*K65*	*111*

Lower Elevation	Address	Direction / Distance	Map ID	Page
REVERE SUGAR CORPORATION	*280 RICHARDS STREET*	*SSE 1/8 - 1/4 (0.133 mi.)*	*H53*	*85*

Records of Emergency Release Reports

NY Spills: Data collected on spills reported to NYSDEC. is required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

A review of the NY Spills list, as provided by EDR, and dated 05/19/2014 has revealed that there are 24 NY Spills sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
149 VAN DYKE STREET (HURRICANE Spill Number/Closed Date: 1212251 / 11/13/2012	149 VAN DYKE STREET	N 0 - 1/8 (0.031 mi.)	C16	25
VEHICLE 50512, HYDRAULIC LEAK Spill Number/Closed Date: 0511224 / 3/24/2006	170 BEARD ST	W 0 - 1/8 (0.038 mi.)	D19	28
VACANT LOT Spill Number/Closed Date: 9807182 / 10/7/1998	412 VAN BRUNT ST	NE 0 - 1/8 (0.057 mi.)	E21	31
CANAL SANITATION Spill Number/Closed Date: 0702571 / 6/11/2007	162 VAN DYKE STREET	NNW 0 - 1/8 (0.080 mi.)	39	54
260 COFFEY ST/BKLYN Spill Number/Closed Date: 8906587 / 10/4/1989	260 COFFEY STREET	N 0 - 1/8 (0.108 mi.)	42	61
CONOVER STREET BETWEEN Spill Number/Closed Date: 0200661 / 3/7/2003	DYKEMAN AND COFFEY	NNE 0 - 1/8 (0.109 mi.)	44	63

Lower Elevation	Address	Direction / Distance	Map ID	Page
HOME Spill Number/Closed Date: 1212851 / 3/29/2013	159 BEARD ST	SW 0 - 1/8 (0.026 mi.)	B8	14
NEW YORK BAY Spill Number/Closed Date: 9407695 / 4/25/1997	BEARD ST/VAN BRUNT ST	SSW 0 - 1/8 (0.029 mi.)	B11	18
REED ST / VAN FRONT ST Spill Number/Closed Date: 9302993 / 2/15/1995	REED ST / VAN FRONT ST	SSW 0 - 1/8 (0.073 mi.)	F23	35
VAN BRUNT PUMP STA/BKLYN Spill Number/Closed Date: 9004969 / 2/15/1995	VAN BRUNT AVENUE	SSW 0 - 1/8 (0.080 mi.)	F27	41
VAN VRONT PUMP STA. Spill Number/Closed Date: 9310156 / 2/15/1995	VAN VRONT PUMP STA.	SSW 0 - 1/8 (0.080 mi.)	F28	42
VAN BRUNT ST./B'KLYN Spill Number/Closed Date: 8704954 / 9/14/1987	VAN BRUNT ST.	SSW 0 - 1/8 (0.080 mi.)	F29	43
VAN BRUNT ST PUMP STATION Spill Number/Closed Date: 9605151 / 7/22/1996	VAN BRUNT ST	SSW 0 - 1/8 (0.080 mi.)	F30	44
VAN BRUNT PUMP STA. Spill Number/Closed Date: 9313665 / 9/5/1995	VAN BRUNT PUMP STA.	SSW 0 - 1/8 (0.080 mi.)	F31	45
BUTTERMILK CHANNEL Spill Number/Closed Date: 9509026 / 10/23/1995	VAN BRUNT PUMP STATION	SSW 0 - 1/8 (0.080 mi.)	F32	46
VAN BRUNT PUMP STATION Spill Number/Closed Date: 9410731 / 11/15/1994	VAN BRUNT & REED ST	SSW 0 - 1/8 (0.080 mi.)	F33	47
VAN BRUNT PUMP STATION Spill Number/Closed Date: 9406207 / 8/6/1994	VAN BRUNT PUMP STATION	SSW 0 - 1/8 (0.080 mi.)	F34	48
VAN BRUNT ST PUMP STATION Spill Number/Closed Date: 8900240 / 4/9/1989	READE STREET & VAN BRUN	SSW 0 - 1/8 (0.080 mi.)	F35	50
VAN BROWN ST. & READ ST. Spill Number/Closed Date: 9210558 / 2/15/1995	VAN BROWN ST. & READ ST	SSW 0 - 1/8 (0.080 mi.)	F36	51

Lower Elevation	Address	Direction / Distance	Map ID	Page
VAN BRUNT PUMP STA/BKLYN Spill Number/Closed Date: 8901074 / 5/3/1989	VAN BRUNT PUMP STATION	SSW 0 - 1/8 (0.080 mi.)	F37	52
VAN BRUNT PUMPING STATION Spill Number/Closed Date: 8912230 / 4/9/1990	VAN BRUNT PUMPING STATI	SSW 0 - 1/8 (0.080 mi.)	F38	53
270 CONOVER ST Spill Number/Closed Date: 9409309 / 3/16/1995	270 CONOVER ST-CAR POUN	W 0 - 1/8 (0.094 mi.)	G41	60
METRO REBUILDERS Spill Number/Closed Date: 9804632 / 2/9/2004	269 CONOVER ST	W 0 - 1/8 (0.108 mi.)	43	61
206 RICHARDS ST / LOT Spill Number/Closed Date: 8700667 / 4/23/1987	208 RICHARDS ST/COFFEY	ESE 0 - 1/8 (0.124 mi.)	46	66

SPILLS 90: Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

A review of the SPILLS 90 list, as provided by EDR, and dated 12/14/2012 has revealed that there is 1 SPILLS 90 site within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
149 VAN DYKE STREET (HURRICANE	149 VAN DYKE STREET	N 0 - 1/8 (0.031 mi.)	C17	26

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/11/2014 has revealed that there are 17 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SANOFI BEAUTE INC	*158 BEARD ST ROOM S*	*WSW 0 - 1/8 (0.027 mi.)*	*B9*	*15*
ATLANTIC BC INC	*145 VAN DYKE ST*	*NNE 0 - 1/8 (0.027 mi.)*	*C10*	*17*
JENMAR ELECTRIC SERVICE CORP	*138 VAN DYKE ST*	*N 0 - 1/8 (0.035 mi.)*	*C18*	*26*
C & L DESIGNS	*173 COFFEY ST*	*NNW 1/8 - 1/4 (0.153 mi.)*	*54*	*94*
PLAYWRIGHTS HORIZONS SCENE SHO	*196 VANDYKE ST*	*NW 1/8 - 1/4 (0.154 mi.)*	*55*	*97*
P. MARCKESANO & SONS CO INC	*161 DIKEMAN ST*	*N 1/8 - 1/4 (0.164 mi.)*	*I58*	*100*
CON EDISON MANHOLE: 43651	WALLCOTT ST & VAN BRUNT	NE 1/8 - 1/4 (0.173 mi.)	J60	103
PERFECT BODIES AUTO COLLISION	*145-165 WOLCOTT ST*	*NNE 1/8 - 1/4 (0.198 mi.)*	*K66*	*118*
PREMIUM RUSH MILL	74 SULLIVAN ST	NE 1/8 - 1/4 (0.227 mi.)	O78	151
CON EDISON MANHOLE: 67160	66 SULLIVAN ST	NE 1/8 - 1/4 (0.229 mi.)	O81	155

Lower Elevation	Address	Direction / Distance	Map ID	Page
BLUE STAR MECHANICAL REMOVAL C	*454 VAN BRUNT ST*	*SSW 0 - 1/8 (0.061 mi.)*	*F22*	*33*
VAN BRUNT STORES WAREHOUSE	*480 VAN BRUNT ST*	*SSW 0 - 1/8 (0.087 mi.)*	*40*	*55*
REVERE SUGAR CORP BROOKLYN	*280 RICHARDS STREET*	*SSE 1/8 - 1/4 (0.133 mi.)*	*H52*	*81*

Lower Elevation	Address	Direction / Distance	Map ID	Page
FISCHER MARINE REPAIR CORP	*38 COFFEY ST*	*ESE 1/8 - 1/4 (0.212 mi.)*	*N69*	*123*
CON EDISON SERVICE BOX: 42105	115 SULLIVAN ST	NNE 1/8 - 1/4 (0.223 mi.)	72	133
H & R SHEET METAL CORP	*31 COFFEY ST*	*ESE 1/8 - 1/4 (0.224 mi.)*	*N74*	*138*
H W RAMBERG INC	*37 VAN DYKE ST*	*SE 1/8 - 1/4 (0.226 mi.)*	*M77*	*149*

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 12/31/2012 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ATL BASIN IRON WORKS		WNW 0 - 1/8 (0.073 mi.)	G25	39

MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the MANIFEST list, as provided by EDR, and dated 05/01/2014 has revealed that there are 14 MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
C & L DESIGNS	*173 COFFEY ST*	*NNW 1/8 - 1/4 (0.153 mi.)*	*54*	*94*
PLAYWRIGHTS HORIZONS SCENE SHO	*196 VANDYKE ST*	*NW 1/8 - 1/4 (0.154 mi.)*	*55*	*97*
CON EDISON	WOLCOTT ST AND VAN BRUN	NNE 1/8 - 1/4 (0.172 mi.)	J59	102
PERFECT BODIES AUTO COLLISION	*145-165 WOLCOTT ST*	*NNE 1/8 - 1/4 (0.198 mi.)*	*K66*	*118*
NYC DEPT OF ED - PUBLIC SCHOOL	*71 SULLIVAN ST*	*NE 1/8 - 1/4 (0.225 mi.)*	*O75*	*141*
CON EDISON	OPP 66 SULLIVAN ST AND	NE 1/8 - 1/4 (0.229 mi.)	O80	154

Lower Elevation	Address	Direction / Distance	Map ID	Page
ROBSON SALES CO	152 BEARD ST	SW 0 - 1/8 (0.024 mi.)	A5	12
BLUE STAR MECHANICAL REMOVAL C	*454 VAN BRUNT ST*	*SSW 0 - 1/8 (0.061 mi.)*	*F22*	*33*
VAN BRUNT STORES WAREHOUSE	*480 VAN BRUNT ST*	*SSW 0 - 1/8 (0.087 mi.)*	*40*	*55*
NYNEX	BEARD ST & RICHARD ST	SE 1/8 - 1/4 (0.128 mi.)	H49	72
REVERE SUGAR CORP	*280 RICHARDS ST*	*SSE 1/8 - 1/4 (0.133 mi.)*	*H51*	*77*
BARGE AUTO BODY INC	*34 COFFEY ST*	*ESE 1/8 - 1/4 (0.221 mi.)*	*N70*	*124*
H & R SHEET METAL CORP	*31 COFFEY ST*	*ESE 1/8 - 1/4 (0.224 mi.)*	*N74*	*138*
NYCDEP	DEWIGHT ST & BEARD ST	SE 1/8 - 1/4 (0.227 mi.)	79	153

E DESIGNATION: Lots designation with an ?E? on the Zoning Maps of the City of New York for potential hazardous material contamination, air and/or noise quality impacts.

A review of the E DESIGNATION list, as provided by EDR, and dated 06/18/2014 has revealed that there are 5 E DESIGNATION sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LOT 24,TAXBLOCK 603	43204 VAN BRUNT STREET	W 0 - 1/8 (0.004 mi.)	A3	9
LOT 29,TAXBLOCK 597	VAN BRUNT STREET	NE 0 - 1/8 (0.030 mi.)	C13	20
LOT 28,TAXBLOCK 597	VAN BRUNT STREET	NE 0 - 1/8 (0.030 mi.)	C14	21
LOT 23,TAXBLOCK 603	VAN BRUNT STREET	NE 0 - 1/8 (0.030 mi.)	C15	23

Lower Elevation	Address	Direction / Distance	Map ID	Page
LOT 26,TAXBLOCK 603	436 VAN BRUNT STREET	S 0 - 1/8 (0.017 mi.)	A4	11

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR US Hist Auto Stat: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 11 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	147 VAN DYKE ST	NNE 0 - 1/8 (0.029 mi.)	C12	20
Not reported	161 DIKEMAN ST	N 1/8 - 1/4 (0.164 mi.)	I57	100
Not reported	87 WOLCOTT ST	NE 1/8 - 1/4 (0.176 mi.)	J61	104
Not reported	64 SULLIVAN ST	NE 1/8 - 1/4 (0.229 mi.)	O82	156
Not reported	64 FERRIS ST	N 1/8 - 1/4 (0.248 mi.)	84	158

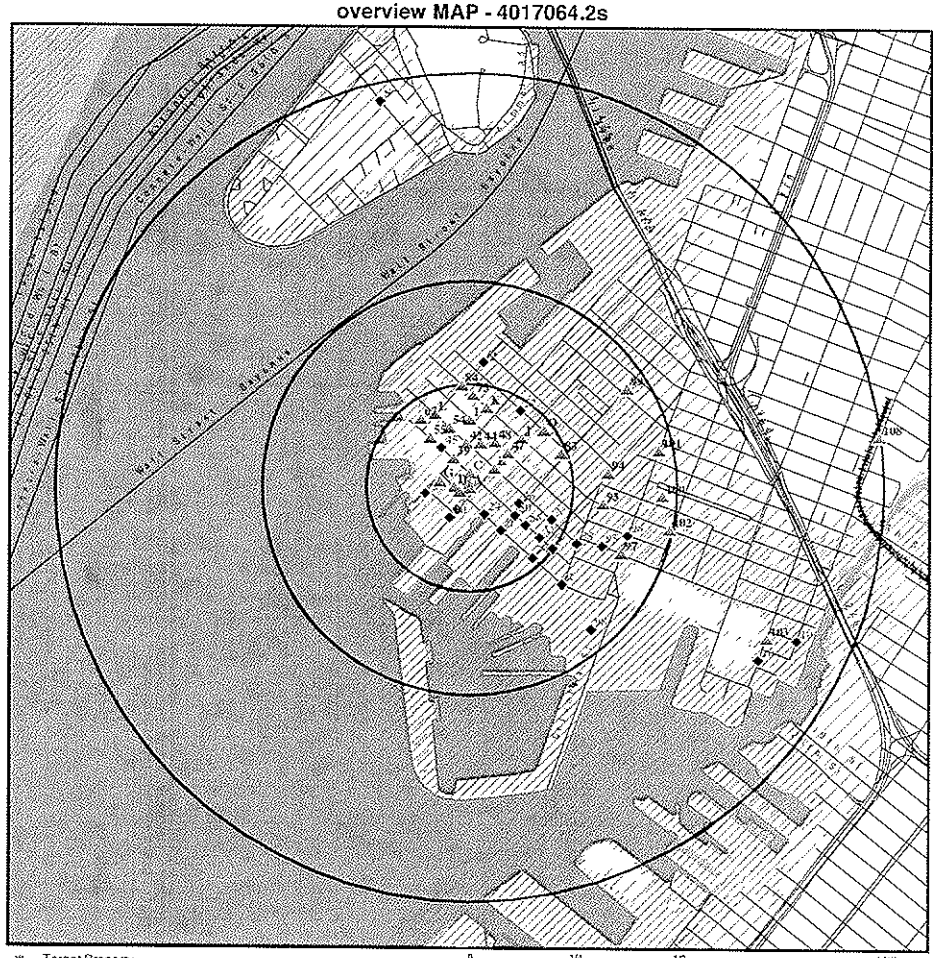
Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	152 BEARD ST	SW 0 - 1/8 (0.024 mi.)	A6	13
Not reported	154 BEARD ST	SW 0 - 1/8 (0.024 mi.)	A7	14
Not reported	69 VAN DYKE ST	ESE 1/8 - 1/4 (0.162 mi.)	56	99
Not reported	47 VAN DYKE ST	SE 1/8 - 1/4 (0.207 mi.)	M68	122
Not reported	34 COFFEY ST	ESE 1/8 - 1/4 (0.221 mi.)	N71	132
Not reported	27 VAN DYKE ST	SE 1/8 - 1/4 (0.249 mi.)	P86	164

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

Site Name	Database(s)
NYS DOT BIN 106539A	MANIFEST
BELL ATLANTIC-NY	MANIFEST
CON EDISON	MANIFEST
CON EDISON	MANIFEST
BP PRODUCTS OF NORTH AMERICA INC	MANIFEST
CONSOLIDATED EDISON	MANIFEST
CON EDISON	MANIFEST
CON EDISION - MH38210	RCRA NonGen / NLR, MANIFEST
NYCTA - 2ND AVE 128TH TO 116TH STR	RCRA-CESQG, MANIFEST
MTA NYCT - 30TH STREET YARD	RCRA NonGen / NLR, MANIFEST
NYSDOT BIN 2232000 D259670 P-X7598	RCRA-SQG, MANIFEST, MANIFEST
NYSDOT BIN 2067889	RCRA-LQG
NYSDOT BIN 1076750	RCRA-LQG
NYSDOT BIN 1076849	RCRA-LQG
NYSDOT BIN 2267380 D259670 P-X7598	RCRA NonGen / NLR
COFFEY STREET	ICIS, FINDS
EXIT 34	NY Spills
KINGS HIGHWAY MOBIL	NY Spills
BETW/AVE X &	NY Spills
205842; KINGS HWY	NY Spills

overview MAP - 4017064.2s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

0 1/4 1/2 1 Miles

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 430-432 Van Brunt Street ADDRESS: 430-432 VAN BRUNT ST Brooklyn NY 11231 LAT/LONG: 40.6756 / 74.0153	CLIENT: PT Consultants, Inc. CONTACT: Denis Cummings INQUIRY #: 4017064.2s DATE: July 25, 2014 8:38 am

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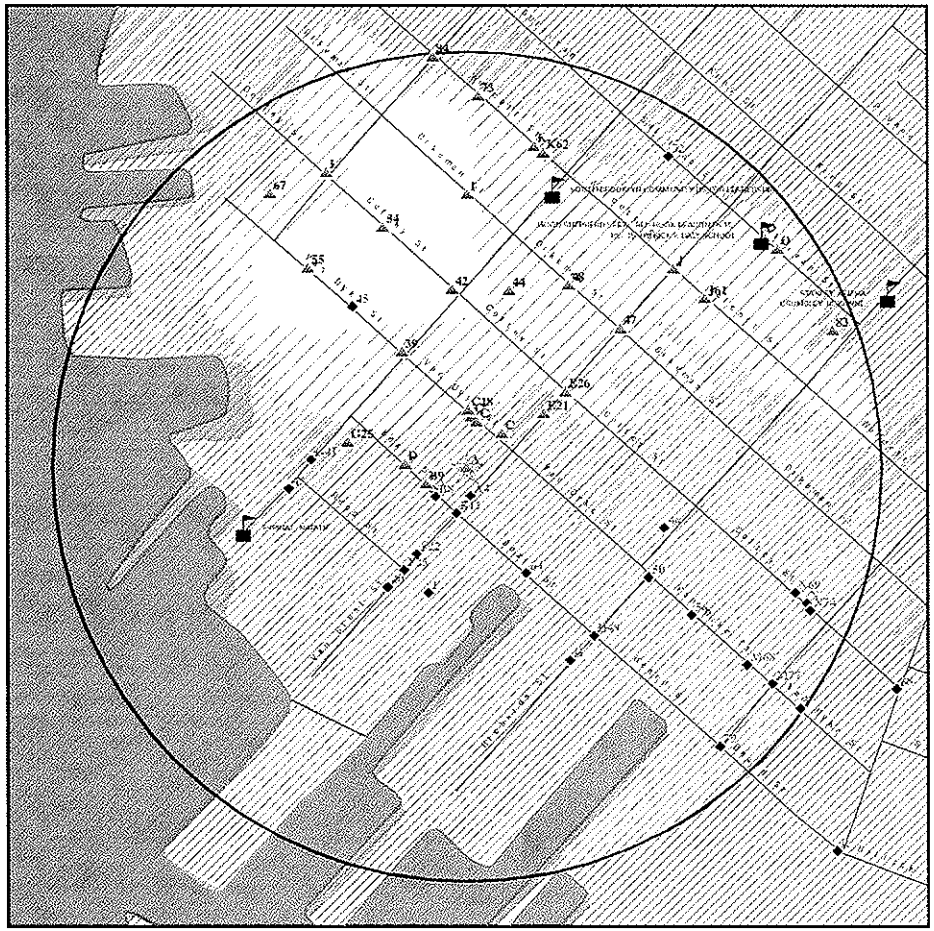
detail MAP - 4017064.2s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 430-432 Van Brunt Street ADDRESS: 430-432 VAN BRUNT ST Brooklyn NY 11231 LAT/LONG: 40.6756 / 74.0153	CLIENT: PT Consultants, Inc. CONTACT: Denis Cummings INQUIRY #: 4017064.2s DATE: July 25, 2014 8:39 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		0	1	0	NR	NR	1
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	1	NR	NR	NR	1
RCRA-CESQG	0.250		2	1	NR	NR	NR	3
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP	1	NR	NR	NR	NR	NR	1
State- and tribal - equivalent CERCLIS								
SHWS	1.000		0	0	0	5	NR	5
VAPOR REOPENED	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	1	4	NR	NR	5
State and tribal leaking storage tank lists								
LTANKS	0.500		0	1	10	NR	NR	11
HIST LTANKS	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
State and tribal registered storage tank lists								
TANKS	0.250		0	0	NR	NR	NR	0
UST	0.250		1	6	NR	NR	NR	7
CBS UST	0.250		0	0	NR	NR	NR	0
MOSF UST	0.500		0	0	0	NR	NR	0
AST	0.250		2	4	NR	NR	NR	6
CBS AST	0.250		0	2	NR	NR	NR	2
MOSF AST	0.500		0	0	0	NR	NR	0
MOSF	0.500		0	0	0	NR	NR	0
CBS	0.250		0	2	NR	NR	NR	2
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS	0.500		0	0	1	NR	NR	1
INST CONTROL	0.500		0	0	1	NR	NR	1
RES DECL	0.125		0	NR	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	1	NR	NR	1
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
ERP	0.500		0	0	0	NR	NR	0
BROWNFIELDS	0.500		0	0	1	NR	NR	1
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
SWTIRE	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	1	NR	NR	1
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
DEL SHWS	1.000		0	0	0	1	NR	1
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
HIST UST	0.250		0	2	NR	NR	NR	2
HIST AST	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
LIENS	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
NY Spills	0.125	1	24	NR	NR	NR	NR	25
NY Hist Spills	0.125		0	NR	NR	NR	NR	0
SPILLS 80	0.125		0	NR	NR	NR	NR	0
SPILLS 90	0.125		1	NR	NR	NR	NR	1
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		5	12	NR	NR	NR	17
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		1	0	0	0	NR	1
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
HSWDS	0.500		0	0	0	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
MANIFEST	0.250		3	11	NR	NR	NR	14
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
SPDES	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
E DESIGNATION	0.125		5	NR	NR	NR	NR	5
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		3	8	NR	NR	NR	11
EDR US Hist Cleaners	0.250		0	0	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA HWS	TP		NR	NR	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID / Direction / Distance / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
A1 Target Property	**ROADWAY 430 VAN BRUNT ST BROOKLYN, NY**	**NY Spills**	**S102401990 N/A**

Site 1 of 7 in cluster A

Actual: 8 ft.

SPILLS:

Facility ID:	9607095
Facility Type:	ER
DER Facility ID:	166073
Site ID:	199524
DEC Region:	2
Spill Date:	9/4/1996
Spill Number/Closed Date:	9607095 / 9/5/1996
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	KATZ
Referred To:	Not reported
Reported to Dept:	9/4/1996
CID:	252
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Citizen
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	9/4/1996
Spill Record Last Update:	8/21/2003
Spiller Name:	UNKNOWN
Spiller Company:	UNKNOWN
Spiller Address:	UNKNOWN
Spiller City,St,Zip:	UNKNOWN, ZZ
Spiller Company:	999
Contact Name:	BETH CASPAR
Contact Phone:	(212) 727-8300
DEC Memo:	Not reported
Remarks:	commercial veh spilled unk amt motor oil onto street-subj thenput sand on spill and drove off

Material:

Site ID:	199524
Operable Unit ID:	1038238
Operable Unit:	01
Material ID:	346360
Material Code:	0015
Material Name:	Motor Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

ROADWAY (Continued) — **S102401990**

Tank Test:

A2
Target Property — **430 VAN BRUNT**
BROOKLYN, NY 11231

ERNS — **96506328**
N/A

Site 2 of 7 in cluster A

Actual:
8 ft.

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

A3
West
< 1/8
0.004 mi.
19 ft. — **LOT 24,TAXBLOCK 603**
43204 VAN BRUNT STREET
BROOKLYN, NY 11231

E DESIGNATION — **S108075252**
N/A

Site 3 of 7 in cluster A

Relative:
Higher

Actual:
8 ft.

E DESIGNATION:

Tax Lot(s):	24
E-No:	E-110
Effective Date:	1/30/2002
Satisfaction Date:	Not reported
Ceqr Number:	00DME013K
Ulurp Number:	020047 ZMK
Zoning Map No:	16a
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code:	BK
Community District:	306
Census Tract:	57
Census Block:	4004
School District:	15
City Council District:	38
Fire Company:	L101
Health Area:	38
Police Precinct:	076
Zone District 1:	M1-1/R5
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	MX-5
Special Purpose District2:	Not reported
All Components1:	M1-1/R5/MX-5
All Components2:	Not reported
Split Boundary Indicator.	N
Building Class:	V1
Land Use Category:	11
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	PACE, PAT
Lot Area:	000003600
Total Building Floor Area:	00000000000
Commercial Floor Area:	00000000000
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000

LOT 24,TAXBLOCK 603 (Continued) — **S108075252**

Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code4	
Number of Buildings:	00000
Number of Floors:	000.00
Residential Units:	00000
Non and Residential Units:	00000
Lot Frontage:	0040.00
Lot Depth:	0090.00
Building Frontage:	0000.00
Building Depth:	0000.00
Proximity Code:	0
Irregular Lot Code:	N
Lot Type:	5
Basement Type Grade:	5
Land Assessed Value:	00000025920
Total Assessed Value:	00000025920
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	0000
Year Built Code:	Not reported
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.00
Maximum Allowable Far:	01.25
Borough Code:	3
Borough Tax Block And Lot:	3006030024
Condominium Number:	00000
Census Tract 2.	0057
X Coordinate:	0979990
Y Coordinate:	0185413
Zoning Map:	16A
Sanborn Map:	301 019
Tax Map:	30207
E Designation No:	E-110
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

A4 South < 1/8 0.017 mi. 91 ft. — **LOT 26,TAXBLOCK 603**, **436 VAN BRUNT STREET**, **BROOKLYN, NY 11231** — **E DESIGNATION** — **S108075253** / **N/A**

Site 4 of 7 in cluster A

Relative: Lower / **Actual: 6 ft.**

E DESIGNATION:

Tax Lot(s):	26
E-No:	E-110
Effective Date:	1/30/2002
Satisfaction Date:	Not reported
Ceqr Number:	00DME013K
Ulurp Number:	020047 ZMK
Zoning Map No:	16a
Description:	Underground Gasoline Storage Tanks" Testing Protocol.
Borough Code:	BK
Community District:	306
Census Tract:	57
Census Block:	4004
School District:	15
City Council District:	38
Fire Company:	L101
Health Area:	38
Police Precinct:	076
Zone District 1:	M1-1/R5
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	MX-5
Special Purpose District2:	Not reported
All Components1:	M1-1/R5/MX-5
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	C0
Land Use Category:	02
Number of Easements:	0
Owner, Type of Code:	P
Owner Name:	KONOPSKI, KAZIMIERZ
Lot Area:	000002250
Total Building Floor Area:	00000005250
Commercial Floor Area:	00000000000
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code	7
Number of Buildings:	00001
Number of Floors:	003.50
Residential Units:	00003
Non and Residential Units:	00003
Lot Frontage:	0025.00
Lot Depth:	0090.00
Building Frontage:	0025.00
Building Depth:	0060.00
Proximity Code:	3
Irregular Lot Code:	N
Lot Type:	5

LOT 26,TAXBLOCK 603 (Continued) — **S108075253**

Basement Type Grade:	5
Land Assessed Value:	00000016695
Total Assessed Value:	00000016695
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	2005
Year Built Code:	Not reported
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0002.33
Maximum Allowable Far:	01.25
Borough Code:	3
Borough Tax Block And Lot:	3006030026
Condominium Number:	00000
Census Tract 2:	0057
X Coordinate:	0979986
Y Coordinate:	0185373
Zoning Map:	16A
Sanborn Map:	301 019
Tax Map:	30207
E Designation No:	E-110
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

A5 SW < 1/8 0.024 mi. 126 ft. — **ROBSON SALES CO**, **152 BEARD ST**, **BROOKLYN, NY 10003** — **MANIFEST** — **1009231752** / **N/A**

Site 5 of 7 in cluster A

Relative: Lower / **Actual: 7 ft.**

NY MANIFEST:

EPA ID:	NYP000785790
Country:	USA

Mailing Info:

Name:	ROBSON SALES CO
Contact:	ROBSON SALES CO
Address:	152 BEARD STREET
City/State/Zip:	BROOKLYN, NY 10003
Country:	USA
Phone:	212-624-7156

Document ID:	NYO3179025
Manifest Status:	Completed copy
Trans1 State ID:	NY2A-04
Trans2 State ID:	Not reported
Generator Ship Date:	840612
Trans1 Recv Date:	840612

ROBSON SALES CO (Continued) 1009231752

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	840612
Part A Recv Date:	840620
Part B Recv Date:	840627
Generator EPA ID:	NYP000785790
Trans1 EPA ID:	NYD980592471
Trans2 EPA ID:	Not reported
TSDF ID:	CTD072138969
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00800
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	Not reported
Specific Gravity:	100
Year:	84

A6
SW **152 BEARD ST** EDR US Hist Auto Stat 1015242061
< 1/8 **BROOKLYN, NY 11231** N/A
0.024 mi.
126 ft. **Site 6 of 7 in cluster A**

Relative: EDR Historical Auto Stations:
Lower

Name:	GEORGE AUTO CARE
Year:	1999
Address:	152 BEARD ST
Name:	GEORGE AUTO CARE
Year:	2000
Address:	152 BEARD ST
Name:	LENNYS AUTO CARE
Year:	2001
Address:	152 BEARD ST
Name:	LENNYS AUTO CARE
Year:	2002
Address:	152 BEARD ST
Name:	LENNYS AUTO CARE
Year:	2003
Address:	152 BEARD ST
Name:	LENNYS AUTO CARE
Year:	2010
Address:	152 BEARD ST

Actual:
7 ft.

A7
SW **154 BEARD ST** EDR US Hist Auto Stat 1015245086
< 1/8 **BROOKLYN, NY 11231** N/A
0.024 mi.
129 ft. **Site 7 of 7 in cluster A**

Relative: EDR Historical Auto Stations:
Lower

Name:	BIG FRANKS AUTO REPAIR
Year:	2000
Address:	154 BEARD ST
Name:	BIG FRANKS AUTO REPAIR
Year:	2003
Address:	154 BEARD ST
Name:	EUROTEC AUTO REPAIR
Year:	2011
Address:	154 BEARD ST

Actual:
7 ft.

B8 **HOME** NY Spills S112807984
SW **159 BEARD ST** N/A
< 1/8 **BROOKLYN, NY**
0.026 mi.
136 ft. **Site 1 of 3 in cluster B**

Relative: SPILLS:
Lower

Facility ID:	1212851
Facility Type:	ER
DER Facility ID:	431329
Site ID:	476009
DEC Region:	2
Spill Date:	11/30/2012
Spill Number/Closed Date:	1212851 / 3/29/2013
Spill Cause:	Storm
Spill Class:	Not reported
SWIS:	2401
Investigator:	Hurricane Sandy R2
Referred To:	Not reported
Reported to Dept:	11/30/2012
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	1
Date Entered In Computer:	11/30/2012
Spill Record Last Update:	12/7/2012
Spiller Name:	Not reported
Spiller Company:	STORM
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	EDNA MIELES
Contact Phone:	Not reported
DEC Memo:	This spill report was created for tracking purposes related to the Department's Hurricane Sandy emergency response efforts.11/30/12-Tim

Actual:
7 ft.

HOME (Continued) **S112807984**

Remarks: Demeo is responded to all pump out.12/1/12 Miller pumped out 275 gal inside tank dislodged during storm/tank needs to be pumped out

Material:
Site ID: 476009
Operable Unit ID: 1225848
Operable Unit: 01
Material ID: 2223173
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Gallons
Recovered: 275
Resource Affected: Not reported
Oxygenate: False

Tank Test:

B9 WSW < 1/8 0.027 mi. 140 ft. **SANOFI BEAUTE INC** **RCRA NonGen / NLR 1000789665**
158 BEARD ST ROOM S **FINDS NYD987011269**
BROOKLYN, NY 11231

Relative: Higher **Site 2 of 3 in cluster B**

Actual: 8 ft.

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: SANOFI BEAUTE INC
Facility address: 158 BEARD ST ROOM S
BROOKLYN, NY 11231
EPA ID: NYD987011269
Mailing address: PO BOX 7803 RARITAN CENTER
EDISON, NY 088187803
Contact: Not reported
Contact address: PO BOX 7803 RARITAN CENTER
EDISON, NY 088187803
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: SANOFI BEAUTE INC
Owner/operator address: 45 FERNWOOD AVE PO BOX 7803
EDISON, NJ 08818
Owner/operator country: US
Owner/operator telephone: (908) 417-0202
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: SANOFI BEAUTE INC

SANOFI BEAUTE INC (Continued) **1000789665**

Owner/operator address: 45 FERNWOOD AVE PO BOX 7803
EDISON, NJ 08818
Owner/operator country: US
Owner/operator telephone: (908) 417-0202
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: SANOFI BEAUTE INC
Classification: Not a generator, verified

Date form received by agency: 09/29/1992
Facility name: SANOFI BEAUTE INC
Classification: Not a generator, verified

Date form received by agency: 08/05/1992
Facility name: SANOFI BEAUTE INC
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110004493593

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

C10 NNE < 1/8 0.027 mi. 141 ft. — **ATLANTIC BC INC**, **145 VAN DYKE ST**, **BROOKLYN, NY 11231** — **RCRA NonGen / NLR**, **FINDS** — **1000153414**, **NYD068274356**

Site 1 of 8 in cluster C

Relative: Higher

Actual: 9 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	ATLANTIC BC INC
Facility address:	145 VAN DYKE ST BROOKLYN, NY 112311010
EPA ID:	NYD068274356
Mailing address:	VAN DYKE ST BROOKLYN, NY 11231
Contact:	Not reported
Contact address:	VAN DYKE ST BROOKLYN, NY 11231
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	Not reported
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	Not reported
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No

ATLANTIC BC INC (Continued) — **1000153414**

Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	01/01/2006
Facility name:	ATLANTIC BC INC
Classification:	Not a generator, verified
Date form received by agency:	07/08/1999
Facility name:	ATLANTIC BC INC
Classification:	Not a generator, verified
Date form received by agency:	06/07/1985
Facility name:	ATLANTIC BC INC
Classification:	Large Quantity Generator
Violation Status:	No violations found

Evaluation Action Summary:

Evaluation date:	07/22/1999
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	EPA
Evaluation date:	01/15/1991
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State

FINDS:

Registry ID: 110004366356

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

B11 SSW < 1/8 0.029 mi. 151 ft. — **NEW YORK BAY**, **BEARD ST/VAN BRUNT ST**, **BROOKLYN, NY** — **NY Spills** — **S102148708**, **N/A**

Site 3 of 3 in cluster B

Relative: Lower

Actual: 6 ft.

SPILLS:

Facility ID:	9407695
Facility Type:	ER
DER Facility ID:	154698
Site ID:	184914

NEW YORK BAY (Continued) **S102148708**

DEC Region:	2
Spill Date:	9/9/1994
Spill Number/Closed Date:	9407695 / 4/25/1997
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	MCTIBBE
Referred To:	Not reported
Reported to Dept:	9/9/1994
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Federal Government
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	10/25/1994
Spill Record Last Update:	5/27/1997
Spiller Name:	Not reported
Spiller Company:	REINAUER TRANS
Spiller Address:	1983 RICHMOND TERRACE
Spiller City,St,Zip:	SI, NY 10302-
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept. 2004 data translation this spill Lead_DEC Field was "TIBBE"CLAENED BY RP
Remarks:	DUCKS WERE COVERED IN BLACK-HAQZMAT NOTIFIED

Material:

Site ID:	184914
Operable Unit ID:	1005294
Operable Unit:	01
Material ID:	380695
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

C12 **EDR US Hist Auto Stat** **1015232545**
NNE **147 VAN DYKE ST** **N/A**
< 1/8 **BROOKLYN, NY 11231**
0.029 mi.
151 ft. **Site 2 of 8 in cluster C**

Relative:
Higher

Actual:
9 ft.

EDR Historical Auto Stations:

Name:	G & F AUTO COLLISION
Year:	1999
Address:	147 VAN DYKE ST
Name:	G & F AUTO COLLISION
Year:	2000
Address:	147 VAN DYKE ST

C13 **LOT 29,TAXBLOCK 597** **E DESIGNATION** **S108075256**
NE **VAN BRUNT STREET** **N/A**
< 1/8 **BROOKLYN, NY 11231**
0.030 mi.
156 ft. **Site 3 of 8 in cluster C**

Relative:
Higher

Actual:
8 ft.

E DESIGNATION:

Tax Lot(s):	29
E-No:	E-110
Effective Date:	1/30/2002
Satisfaction Date:	Not reported
Ceqr Number:	00DME013K
Ulurp Number:	020047 ZMK
Zoning Map No:	16a
Description:	Underground Gasoline Storage Tanks" Testing Protocol
Borough Code:	BK
Community District:	306
Census Tract:	57
Census Block:	3004
School District:	15
City Council District:	38
Fire Company:	L101
Health Area:	38
Police Precinct:	076
Zone District 1:	M1-1/R5
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	MX-5
Special Purpose District2:	Not reported
All Components1:	M1-1/R5/MX-5
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	V1
Land Use Category:	11
Number of Easements:	0
Owner, Type of Code:	P
Owner Name:	PACE, PAT
Lot Area:	000001725
Total Building Floor Area:	00000000000
Commercial Floor Area:	00000000000
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000

LOT 29,TAXBLOCK 597 (Continued) — **S108075256**

Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code4	
Number of Buildings:	00000
Number of Floors:	000.00
Residential Units:	00000
Non and Residential Units:	00000
Lot Frontage:	0025.00
Lot Depth:	0069.00
Building Frontage:	0000.00
Building Depth:	0000.00
Proximity Code:	0
Irregular Lot Code:	N
Lot Type:	3
Basement Type Grade:	5
Land Assessed Value:	00000011790
Total Assessed Value:	00000011790
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	0000
Year Built Code:	Not reported
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.00
Maximum Allowable Far:	01.25
Borough Code:	3
Borough Tax Block And Lot:	3005970029
Condominium Number:	00000
Census Tract 2:	0057
X Coordinate:	0980128
Y Coordinate:	0185531
Zoning Map:	16A
Sanborn Map:	301 019
Tax Map:	30207
E Designation No:	E-110
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

C14 **NE** **< 1/8** **0.030 mi.** **156 ft.**

LOT 28,TAXBLOCK 597
VAN BRUNT STREET
BROOKLYN, NY 11231

E DESIGNATION — **S108075255** **N/A**

Site 4 of 8 in cluster C

Relative: **Higher**
Actual: **8 ft.**

E DESIGNATION:

Tax Lot(s):	28
E-No:	E-110
Effective Date:	1/30/2002
Satisfaction Date:	Not reported

LOT 28,TAXBLOCK 597 (Continued) — **S108075255**

Ceqr Number:	00DME013K
Ulurp Number:	020047 ZMK
Zoning Map No:	16a
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code:	BK
Community District:	306
Census Tract:	57
Census Block:	3004
School District:	15
City Council District:	38
Fire Company:	L101
Health Area:	38
Police Precinct:	076
Zone District 1:	M1-1/R5
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	MX-5
Special Purpose District2:	Not reported
All Components1:	M1-1/R5/MX-5
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	V1
Land Use Category:	11
Number of Easements:	0
Owner, Type of Code:	P
Owner Name:	PACE, PAT
Lot Area:	000001725
Total Building Floor Area:	00000000000
Commercial Floor Area:	00000000000
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code4	
Number of Buildings:	00000
Number of Floors:	000.00
Residential Units:	00000
Non and Residential Units:	00000
Lot Frontage:	0025.00
Lot Depth:	0069.00
Building Frontage:	0000.00
Building Depth:	0000.00
Proximity Code:	0
Irregular Lot Code:	N
Lot Type:	5
Basement Type Grade:	5
Land Assessed Value:	00000011790
Total Assessed Value:	00000011790
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	0000
Year Built Code:	Not reported
Year Altered1:	0000
Year Altered2:	0000

LOT 28,TAXBLOCK 597 (Continued) S108075255

Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.00
Maximum Allowable Far:	01.25
Borough Code:	3
Borough Tax Block And Lot:	3005970028
Condominium Number:	00000
Census Tract 2:	0057
X Coordinate:	0980134
Y Coordinate:	0185560
Zoning Map:	16A
Sanborn Map:	301 019
Tax Map:	30207
E Designation No:	E-110
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

C15 **LOT 23,TAXBLOCK 603** **E DESIGNATION** **S108075251**
NE **VAN BRUNT STREET** **N/A**
< 1/8 **BROOKLYN, NY 11231**
0.030 mi.
156 ft. **Site 5 of 8 in cluster C**

Relative:
Higher

Actual:
8 ft.

E DESIGNATION:

Tax Lot(s):	23
E-No:	E-110
Effective Date:	1/30/2002
Satisfaction Date:	Not reported
Ceqr Number:	00DME013K
Ulurp Number:	020047 ZMK
Zoning Map No:	16a
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code:	BK
Community District:	306
Census Tract:	57
Census Block:	4004
School District:	15
City Council District:	38
Fire Company:	L101
Health Area:	38
Police Precinct:	076
Zone District 1:	M1-1/R5
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	MX-5
Special Purpose District2:	Not reported
All Components1:	M1-1/R5/MX-5
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	V1

LOT 23,TAXBLOCK 603 (Continued) S108075251

Land Use Category:	11
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	PACE, PAT
Lot Area:	000002250
Total Building Floor Area:	00000000000
Commercial Floor Area:	00000000000
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code4	
Number of Buildings:	00000
Number of Floors:	000.00
Residential Units:	00000
Non and Residential Units:	00000
Lot Frontage:	0025.00
Lot Depth:	0090.00
Building Frontage:	0000.00
Building Depth:	0000.00
Proximity Code:	0
Irregular Lot Code:	N
Lot Type:	5
Basement Type Grade:	5
Land Assessed Value:	00000016155
Total Assessed Value:	00000016155
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	0000
Year Built Code:	Not reported
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.00
Maximum Allowable Far:	01.25
Borough Code:	3
Borough Tax Block And Lot:	3006030023
Condominium Number:	00000
Census Tract 2:	0057
X Coordinate:	0980033
Y Coordinate:	0185421
Zoning Map:	16A
Sanborn Map:	301 019
Tax Map:	30207
E Designation No:	E-110
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

C16 North < 1/8 0.031 mi. 163 ft. — **149 VAN DYKE STREET (HURRICANE SANDY)** — **NY Spills** — **S112807481** / **N/A**
149 VAN DYKE STREET
RED HOOK, NY 11231

Site 6 of 8 in cluster C

Relative: Higher
Actual: 9 ft.

SPILLS:

Facility ID:	1212251
Facility Type:	ER
DER Facility ID:	430682
Site ID:	475396
DEC Region:	2
Spill Date:	10/29/2012
Spill Number/Closed Date:	1212251 / 11/13/2012
Spill Cause:	Storm
Spill Class:	Not reported
SWIS:	2401
Investigator:	Hurricane Sandy R2
Referred To:	Not reported
Reported to Dept:	11/16/2012
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	DEC
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	Not reported
Date Entered In Computer:	11/20/2012
Spill Record Last Update:	11/20/2012
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spiller Company:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	This spill report was created for tracking purposes related to the Department's Hurricane Sandy emergency response efforts.DEC Pumped out 10Gallons on 11/13/2012
Remarks:	Not reported

Material:

Site ID:	475396
Operable Unit ID:	1225231
Operable Unit:	01
Material ID:	2228883
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	10
Resource Affected:	Not reported
Oxygenate:	False

149 VAN DYKE STREET (HURRICANE SANDY) (Continued) — **S112807481**

Tank Test:

C17 North < 1/8 0.031 mi. 163 ft. — **149 VAN DYKE STREET (HURRICANE SANDY)** — **SPILLS 90** — **S112394976** / **N/A**
149 VAN DYKE STREET
RED HOOK, NY 11231

Site 7 of 8 in cluster C

Relative: Higher
Actual: 9 ft.

Spills:

Status:	CLOSED
Contact Name:	Not reported
Contact Phone:	Not reported
Site ID:	1212251
Secondary ID:	475396
Cross Street:	Not reported
County:	KINGS
Longitude:	0
Latitude:	0
Elevation:	Not reported

C18 North < 1/8 0.035 mi. 185 ft. — **JENMAR ELECTRIC SERVICE CORP** — **RCRA NonGen / NLR** — **1000890035**
138 VAN DYKE ST — **FINDS** — **NY0000229781**
BROOKLYN, NY 11231

Site 8 of 8 in cluster C

Relative: Higher
Actual: 9 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	JENMAR ELECTRIC SERVICE CORP
Facility address:	138 VAN DYKE ST BROOKLYN, NY 112311012
EPA ID:	NY0000229781
Mailing address:	VAN DYKE ST BROOKLYN, NY 11231
Contact:	Not reported
Contact address:	VAN DYKE ST BROOKLYN, NY 11231
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	HENNING LORGEN
Owner/operator address:	138 VAN DYKE ST BROOKLYN, NY 11231
Owner/operator country:	US
Owner/operator telephone:	(718) 852-4800
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported

JENMAR ELECTRIC SERVICE CORP (Continued) 1000890035

Owner/Op end date: Not reported

Owner/operator name: HENNING LORGEN
Owner/operator address: 138 VAN DYKE ST
BROOKLYN, NY 11231
Owner/operator country: US
Owner/operator telephone: (718) 852-4800
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: JENMAR ELECTRIC SERVICE CORP
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: JENMAR ELECTRIC SERVICE CORP
Classification: Not a generator, verified

Date form received by agency: 04/19/1994
Facility name: JENMAR ELECTRIC SERVICE CORP
Classification: Small Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 11/19/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

FINDS:

Registry ID: 110004314180

Environmental Interest/Information System

JENMAR ELECTRIC SERVICE CORP (Continued) 1000890035

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

D19 West < 1/8 0.038 mi. 198 ft. **VEHICLE 50512, HYDRAULIC LEAK** **NY Spills** **S107521538**
170 BEARD ST **N/A**
BROOKLYN, NY

Site 1 of 2 in cluster D

Relative: Higher
Actual: 9 ft.

SPILLS:
Facility ID: 0511224
Facility Type: ER
DER Facility ID: 307360
Site ID: 357332
DEC Region: 2
Spill Date: 12/27/2005
Spill Number/Closed Date: 0511224 / 3/24/2006
Spill Cause: Equipment Failure
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 2401
Investigator: GDBREEN
Referred To: Not reported
Reported to Dept: 12/27/2005
CID: 409
Water Affected: Not reported
Spill Source: Passenger Vehicle
Spill Notifier: Responsible Party
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 12/27/2005
Spill Record Last Update: 3/24/2006
Spiller Name: ERT DESK MIKE DAUGHTERY
Spiller Company: CON EDISON
Spiller Address: 170 BEARD ST
Spiller City,St,Zip: BROOKLYN, NY
Spiller Company: 999
Contact Name: ERT DESK MIKE DAUGHTERY
Contact Phone: (212) 580-8383
DEC Memo: 162350. 12/27/2005 09:01 HRS K. SMITH #74498 OGS O/H REPORTS THAT APPROX 2 GALS OF HYDRAULIC OIL LEAKED FROM VEH# 50512 ONTO COBBLESTONE IN F/O 170 BEARD ST. THIS OCCURED WHILE PERFORMING AN O/H SWITCH MOVE ON ACCT# C3417. THERE WAS NO SMOKE, FIRE, OR INJURIES RELATED TO THE SPILL, NOR WERE ANY SEWERS, WATERWAYS, OR PRIVATE PROPERTY AFFECTED. THE CAUSE OF THE SPILL WAS A BURST HYDRAULIC HOSE AND TRANSPORTATION HAS BEEN NOTIFIED. THE SPILL HAS BEEN CONTAINED WITH BALONEYS AND IS IN THE PROCESS OF BEING CLEANED WITH ABSORBENT. AN ENV CREW WAS REQUESTED FOR ADDITIONAL ABSORBENT AND TO ASSIST IN THE CLEANUP, AND A CREW WAS DISPATCHED. UPDATES TO FOLLOW J

VEHICLE 50512, HYDRAULIC LEAK (Continued) **S107521538**

Remarks: ANDERSONUPDATE 12/27/2005 10:40 HRS AS PER ENV SUPV D. LICHTENSTEIN THE TRUCK NEEDS TO BE MOVED BEFORE PROPER CLEANUP CAN BE DONE AND TRANSPORTATION IS NEEDED FOR THAT, INCIDENT TO BE REMOVED FROM 2 HOUR PROGRAM. J ANDERSON3/24/06This spill is being closed based on report in eDocs link. (SKA) has been contained and clean up in process. VECHICLE 50512. NO TO FIVE QUESTIONS. CONEDa#162350

Material:

Site ID:	357332
Operable Unit ID:	1114607
Operable Unit:	01
Material ID:	2104675
Material Code:	0010
Material Name:	Hydraulic Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

D20 West < 1/8 0.039 mi. 204 ft. **NECHANAH & RAFAEL, LLC** **UST U001831961**
175 BEARD STREET **N/A**
BROOKLYN, NY 11231

Site 2 of 2 in cluster D

Relative: Higher

Actual: 9 ft.

UST:

Id/Status:	2-083011 / Unregulated
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	2008-06-18
UTM X:	583165.24274999998
UTM Y:	4503205.1051899996
Site Type:	Other

Affiliation Records:

Site Id:	1836
Affiliation Type:	Facility Owner
Company Name:	ROBERT DELIGDISH
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	115-01 CURZON ROAD
Address2:	Not reported
City:	RICHMOND HILL
State:	NY
Zip Code:	11418
Country Code:	001
Phone:	(718) 805-4950
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT

NECHANAH & RAFAEL, LLC (Continued) **U001831961**

Date Last Modified:	3/4/2004

Site Id:	1836
Affiliation Type:	Mail Contact
Company Name:	DELIGH INDUSTRIES, INC.
Contact Type:	Not reported
Contact Name:	MRS. TOBY DELIGDISH
Address1:	P.O. BOX 310-154
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11231-0154
Country Code:	001
Phone:	(718) 875-1511
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	1836
Affiliation Type:	On-Site Operator
Company Name:	NECHANAH & RAFAEL, LLC
Contact Type:	Not reported
Contact Name:	ROBERT DELIGDISH
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 875-1511
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	1836
Affiliation Type:	Emergency Contact
Company Name:	ROBERT DELIGDISH
Contact Type:	Not reported
Contact Name:	ROBERT DELIGDISH
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 805-4950
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank ID:	3052

NECHANAH & RAFAEL, LLC (Continued) U001831961

Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	2000
Install Date:	09/01/1976
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	01
Date Test:	11/01/1987
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
I05 - Overfill - Vent Whistle
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None

E21 NE < 1/8 0.057 mi. 300 ft. **VACANT LOT** **412 VAN BRUNT ST** **BROOKLYN, NY** — NY Spills S103484395 N/A

Site 1 of 2 in cluster E

Relative: Higher

Actual: 8 ft.

SPILLS:

Facility ID:	9807182
Facility Type:	ER
DER Facility ID:	63305
Site ID:	66068
DEC Region:	2
Spill Date:	9/11/1998
Spill Number/Closed Date:	9807182 / 10/7/1998
Spill Cause:	Deliberate
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	9/11/1998
CID:	252
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False

VACANT LOT (Continued) S103484395

UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	9/11/1998
Spill Record Last Update:	11/16/1998
Spiller Name:	UNK
Spiller Company:	VACANT LOT
Spiller Address:	412 VAN BRUNT ST
Spiller City,St,Zip:	REDHOOK BROOKLYN, ZZ
Spiller Company:	001
Contact Name:	UNK
Contact Phone:	(000) 000-0000
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"
Remarks:	CALLER STATES POSSIBLY AN ILLEGAL AUTO REPAIR BUSINESS HAS BEEN SET UP ON VACANT PROPERTY-SUBJECTS WORKING ON CARS DUMPING WASTE MATERIALS ONTO LAND. NOTIFIER WISHES TO REMAIN ANONYMOUS.

Material:

Site ID:	66068
Operable Unit ID:	1068261
Operable Unit:	01
Material ID:	318292
Material Code:	0015
Material Name:	Motor Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False
Site ID:	66068
Operable Unit ID:	1068261
Operable Unit:	01
Material ID:	318293
Material Code:	0022
Material Name:	Waste Oil/Used Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

F22 SSW < 1/8 0.061 mi. 322 ft. **BLUE STAR MECHANICAL REMOVAL CO** **RCRA NonGen / NLR** **1004757925**
454 VAN BRUNT ST **FINDS** **NYD986964039**
BROOKLYN, NY **MANIFEST**

Site 1 of 14 in cluster F

Relative: Lower

Actual: 5 ft.

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: BLUE STAR MECHANICAL REMOVAL CO
Facility address: 454 VAN BRUNT ST
BROOKLYN, NY 112310013
EPA ID: NYD986964039
Mailing address: VAN BRUNT ST
BROOKLYN, NY 112310013
Contact: BOB ZURER
Contact address: VAN BRUNT ST
BROOKLYN, NY 112310013
Contact country: US
Contact telephone: (718) 643-0878
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: BOB ZURER
Owner/operator address: 454 VAN BRUNT ST
BROOKLYN, NY 11231
Owner/operator country: US
Owner/operator telephone: (718) 643-0878
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: BOB ZURER
Owner/operator address: 454 VAN BRUNT ST
BROOKLYN, NY 11231
Owner/operator country: US
Owner/operator telephone: (718) 643-0878
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No

BLUE STAR MECHANICAL REMOVAL CO (Continued) **1004757925**

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: BLUE STAR MECHANICAL REMOVAL CO
Classification: Not a generator, verified

Date form received by agency: 07/09/1991
Facility name: BLUE STAR MECHANICAL REMOVAL CO
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110004473338

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA

NY MANIFEST:
EPA ID: NYD986964039
Country: USA

Mailing Info:
Name: BLUE STAR MECHANICAL REMOVAL CORP
Contact: JOHN BUCKLEY
Address: 454 VAN BRUNT STREET
City/State/Zip: BROOKLYN, NY 11231
Country: USA
Phone: 718-643-0878

Document ID: NYB2874978
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: 1165AAOK
Trans2 State ID: Not reported
Generator Ship Date: 910522
Trans1 Recv Date: 910522
Trans2 Recv Date: Not reported
TSD Site Recv Date: 910522
Part A Recv Date: 910802
Part B Recv Date: 910805
Generator EPA ID: NYD986964039
Trans1 EPA ID: OKD981514474
Trans2 EPA ID: Not reported
TSDF ID: PAD981113749
Waste Code: B005 - PCB ARTICLES WITH 500 PPM OR > PCB
Quantity: 02822

BLUE STAR MECHANICAL REMOVAL CO (Continued) 1004757925

Units:	K - Kilograms (2.2 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	91

Document ID:	NYB1918242
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	1165AAOK
Trans2 State ID:	Not reported
Generator Ship Date:	910522
Trans1 Recv Date:	910522
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	910522
Part A Recv Date:	910808
Part B Recv Date:	910805
Generator EPA ID:	NYD986964039
Trans1 EPA ID:	OKD981514474
Trans2 EPA ID:	Not reported
TSDF ID:	PAD981113749
Waste Code:	B006 - PCB TRANSFORMERS WITH 500 PPM OR > PCB
Quantity:	08160
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00479
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	TP - Tanks, portable
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	91

F23 SSW < 1/8 0.073 mi. 386 ft. — **REED ST / VAN FRONT ST**, **REED ST / VAN FRONT ST**, **BROOKLYN, NY** — **NY Spills** **S102146579** N/A

Site 2 of 14 in cluster F

Relative: Lower **Actual: 4 ft.**

SPILLS:

Facility ID:	9302993
Facility Type:	ER
DER Facility ID:	244176
Site ID:	302218
DEC Region:	2
Spill Date:	6/4/1993
Spill Number/Closed Date:	9302993 / 2/15/1995
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	GUTIERREZ
Referred To:	Not reported

REED ST / VAN FRONT ST (Continued) S102146579

Reported to Dept:	6/5/1993
CID:	Not reported
Water Affected:	LOWER NY BAY
Spill Source:	Unknown
Spill Notifier:	Local Agency
Cleanup Ceased:	2/15/1995
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	3/7/1994
Spill Record Last Update:	1/17/1996
Spiller Name:	Not reported
Spiller Company:	DEP
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	PUMP FAILURE 0.28 MGD BYPASS FROM 8:30 AM TO 6/PM.

Material:

Site ID:	302218
Operable Unit ID:	985008
Operable Unit:	01
Material ID:	400092
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

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24 SSE < 1/8 0.073 mi. 388 ft. — **AHAVA FOOD CORP**, **118 BEARD STREET**, **BROOKLYN, NY 11231** — **AST** **A100300895** N/A

Relative: Lower **Actual: 1 ft.**

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-607814
Program Type:	PBS
UTM X:	583281
UTM Y:	4503114
Expiration Date:	2012-06-06
Site Type:	Manufacturing (Other than Chemical)/Processing

AHAVA FOOD CORP (Continued) A100300895

Affiliation Records:

Site Id:	29666
Affiliation Type:	Facility Owner
Company Name:	AHAVA FOOD CORP
Contact Type:	CONTROLLER
Contact Name:	RUBEN BEITYAKOV
Address1:	118 BEARD STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11231
Country Code:	001
Phone:	(718) 243-0400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	3/5/2007

Site Id:	29666
Affiliation Type:	Mail Contact
Company Name:	AHAVA FOOD CORP
Contact Type:	Not reported
Contact Name:	MOSHE BANAYAN
Address1:	118 BEARD STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11231
Country Code:	001
Phone:	(718) 243-0400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	3/5/2007

Site Id:	29666
Affiliation Type:	On-Site Operator
Company Name:	AHAVA FOOD CORP
Contact Type:	Not reported
Contact Name:	AHAVA FOOD CORP
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 234-0400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	3/5/2007

Site Id:	29666
Affiliation Type:	Emergency Contact
Company Name:	AHAVA FOOD CORP
Contact Type:	Not reported
Contact Name:	MOSHE BANAYAN

AHAVA FOOD CORP (Continued) A100300895

Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(347) 242-6271
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	3/5/2007

Tank Info:

Tank Number:	0001
Tank Id:	63558
Material Code:	0008
Common Name of Substance:	Diesel

Equipment Records:

D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
A01 - Tank Internal Protection - Epoxy Liner
I05 - Overfill - Vent Whistle
G03 - Tank Secondary Containment - Vault (w/o access)
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/2002
Capacity Gallons:	1000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Material Name:	Diesel

Tank Number:	0002
Tank Id:	63559
Material Code:	0008
Common Name of Substance:	Diesel

Equipment Records:

G03 - Tank Secondary Containment - Vault (w/o access)
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None

AHAVA FOOD CORP (Continued) — **A100300895**

A01 - Tank Internal Protection - Epoxy Liner
I05 - Overfill - Vent Whistle
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/2002
Capacity Gallons:	1000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Material Name:	Diesel

G25 WNW < 1/8 0.073 mi. 388 ft. — **ATL BASIN IRON WORKS** — **FUDS** — **1007211612** / **N/A**

, NY

Site 1 of 2 in cluster G

Relative: Higher

Actual: 9 ft.

FUDS:

Federal Facility ID:	NY9799F1301
FUDS #:	C02NY0969
INST ID:	59204
Facility Name:	ATL BASIN IRON WORKS
City:	Not reported
State:	NY
EPA Region:	02
County:	Not reported
Congressional District:	12
US Army District:	New England District (NAE)
Fiscal Year:	2012
Telephone:	978-318-8238
NPL Status:	Not Listed
RAB:	Not reported
CTC:	249.8000
Current Owner:	State Government
Current Prog:	Not reported
Future Prog:	Not reported
Acreage:	Not reported
Description:	The 10.5-acre Atlantic Basin Iron Works is located in Brooklyn, New York. It was situated in the Erie Basin, adjacent to Conover Street and below Van Dyke Street. The Navy used the site as a shipyard. Abandoned tanks are present. Vehicles are currently stored on site.
History:	Between 1941 and 1942, the government obtained 10.50 acres fee by declaration of taking. On 25 October 1958, the General Services Administration accepted care of the site. In 1960, it conveyed the site to the New York/New Jersey Port Authority, which is the current owner.
Latitude:	40.675701
Longitude:	-74.017899

E26 NE < 1/8 0.075 mi. 396 ft. — **CON EDISON MANHOLE: 43857** — **RCRA-CESQG** — **1016149659** / **NYP004283255**

COFFEY ST & VAN BRUNT
BROOKLYN, NY 11202

Site 2 of 2 in cluster E

Relative: Higher

Actual: 9 ft.

RCRA-CESQG:

Date form received by agency:	01/14/2013
Facility name:	CON EDISON MANHOLE: 43857
Facility address:	COFFEY ST & VAN BRUNT BROOKLYN, NY 11202
EPA ID:	NYP004283255
Mailing address:	IRVING PL, RM 828 NEW YORK, NY 10003
Contact:	ANDREW DEPIPPO
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(718) 802-5650
Contact email:	Not reported
EPA Region:	02
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

F27 SSW < 1/8 0.080 mi. 421 ft. — **VAN BRUNT PUMP STA/BKLYN**, **VAN BRUNT AVENUE**, **NEW YORK CITY, NY** — **NY Spills** — **S102141631** / **N/A**

Site 3 of 14 in cluster F

Relative: Lower

Actual: 2 ft.

SPILLS:

Facility ID:	9004969
Facility Type:	ER
DER Facility ID:	249478
Site ID:	308910
DEC Region:	2
Spill Date:	8/3/1990
Spill Number/Closed Date:	9004969 / 2/15/1995
Spill Cause:	Equipment Failure
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	MANDALA
Referred To:	Not reported
Reported to Dept:	8/4/1990
CID:	Not reported
Water Affected:	UPPER NEW YORK BAY
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Responsible Party
Cleanup Ceased:	2/15/1995
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	8/8/1990
Spill Record Last Update:	2/16/1995
Spiller Name:	Not reported
Spiller Company:	NYCDEP
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	PUMP FAILURE. PUMPS WERE FIXED. NYCDEP CLAIMS BYPASS WILL NOT HEAD UPSTREAM.

Material:

Site ID:	308910
Operable Unit ID:	942626
Operable Unit:	01
Material ID:	436042
Material Code:	0062A
Material Name:	RAW SEWAGE
Case No.:	Not reported
Material FA:	Other
Quantity:	-1
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

VAN BRUNT PUMP STA/BKLYN (Continued) — **S102141631**

Tank Test:

F28 SSW < 1/8 0.080 mi. 421 ft. — **VAN VRONT PUMP STA.**, **VAN VRONT PUMP STA.**, **BROOKLYN, NY** — **NY Spills** — **S102147332** / **N/A**

Site 4 of 14 in cluster F

Relative: Lower

Actual: 2 ft.

SPILLS:

Facility ID:	9310156
Facility Type:	ER
DER Facility ID:	231152
Site ID:	285043
DEC Region:	2
Spill Date:	11/20/1993
Spill Number/Closed Date:	9310156 / 2/15/1995
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	SPEDES UNIT
Referred To:	SPEDES UNIT
Reported to Dept:	11/20/1993
CID:	Not reported
Water Affected:	LOWER NY HARBOR
Spill Source:	Unknown
Spill Notifier:	Responsible Party
Cleanup Ceased:	2/15/1995
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	11/23/1993
Spill Record Last Update:	2/15/1995
Spiller Name:	Not reported
Spiller Company:	DEP
Spiller Address:	84 AVE V
Spiller City,St,Zip:	NY, NY
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept. 2004 data translation this spill Lead_DEC Field was "SPDES/MARTINKAT"10/10/95. This is additional information about material spilled from the translation of the old spill file: .29 MG. RAW SEWAGE.
Remarks:	BROKEN HOSE CAUSED PUMP TO FEIL - NO ACTIONS TAKEN - NO OTHER CALLED NCB.

Material:

Site ID:	285043
Operable Unit ID:	991857
Operable Unit:	01
Material ID:	392786
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported

VAN VRONT PUMP STA. (Continued) S102147332

Material FA:	Petroleum
Quantity:	0
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test.

F29 SSW < 1/8 0.080 mi. 421 ft. **VAN BRUNT ST./B'KLYN**
VAN BRUNT ST.
NEW YORK CITY, NY
NY Spills **S102144762** **N/A**

Site 5 of 14 in cluster F

Relative: Lower
Actual: 2 ft.

SPILLS:

Facility ID:	8704954
Facility Type:	ER
DER Facility ID:	166605
Site ID:	200217
DEC Region:	2
Spill Date:	9/11/1987
Spill Number/Closed Date:	8704954 / 9/14/1987
Spill Cause:	Equipment Failure
Spill Class:	Not reported
SWIS:	2401
Investigator:	UNASSIGNED
Referred To:	Not reported
Reported to Dept:	9/14/1987
CID:	Not reported
Water Affected:	LOWER N.Y. BAY
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Responsible Party
Cleanup Ceased:	9/14/1987
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	9/16/1987
Spill Record Last Update:	10/12/1988
Spiller Name:	Not reported
Spiller Company:	NYCDEP
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was " " Not reported
Remarks:	FLOW RATE 0.36MGD.

Material:

Site ID:	200217
Operable Unit ID:	911303
Operable Unit:	01
Material ID:	467564

VAN BRUNT ST./B'KLYN (Continued) S102144762

Material Code:	0062A
Material Name:	RAW SEWAGE
Case No.:	Not reported
Material FA:	Other
Quantity:	0
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test.

F30 SSW < 1/8 0.080 mi. 421 ft. **VAN BRUNT ST PUMP STATION**
VAN BRUNT ST
BROOKLYN, NY
NY Spills **S102240502** **N/A**

Site 6 of 14 in cluster F

Relative: Lower
Actual: 2 ft.

SPILLS:

Facility ID:	9605151
Facility Type:	ER
DER Facility ID:	228705
Site ID:	281686
DEC Region:	2
Spill Date:	7/20/1996
Spill Number/Closed Date:	9605151 / 7/22/1996
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	JMKRIMGO
Referred To:	Not reported
Reported to Dept:	7/20/1996
CID:	322
Water Affected:	UPPER NY BAY
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	7/20/1996
Spill Record Last Update:	9/19/1996
Spiller Name:	Not reported
Spiller Company:	VAN BRUNT ST PUMP STATION
Spiller Address:	VAN BRUNT ST
Spiller City,St,Zip:	BROOKLYN, ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KRIMGOLD"
Remarks:	PUMP FAILURE - STILL ONGOING AT THIS TIME * * * CALL BACK AT 1800- SPILL ENDED AT 1430 AMT SPILLED .047 MILLION GALLONS

VAN BRUNT ST PUMP STATION (Continued) **S102240502**

Material:

Site ID:	281686
Operable Unit ID:	1036104
Operable Unit:	01
Material ID:	347906
Material Code:	0062A
Material Name:	RAW SEWAGE
Case No.:	Not reported
Material FA:	Other
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

F31 SSW < 1/8 0.080 mi. 421 ft. **VAN BRUNT PUMP STA.** **VAN BRUNT PUMP STA.** **BROOKLYN, NY** — **NY Spills** **S102147789** **N/A**

Relative: Lower **Actual: 2 ft.**

Site 7 of 14 in cluster F

SPILLS:

Facility ID:	9313665
Facility Type:	ER
DER Facility ID:	75997
Site ID:	82425
DEC Region:	2
Spill Date:	2/21/1994
Spill Number/Closed Date:	9313665 / 9/5/1995
Spill Cause:	Unknown
Spill Class:	Not reported
SWIS:	2401
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	2/21/1994
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Other
Cleanup Ceased:	9/5/1995
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	5/26/1994
Spill Record Last Update:	9/5/1995
Spiller Name:	Not reported
Spiller Company:	NYC DEP
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported

VAN BRUNT PUMP STA. (Continued) **S102147789**

DEC Memo:	Prior to Sept. 2004 data translation this spill Lead_DEC Field was "AUSTIN"
Remarks:	SPDES

Material:

Site ID:	82425
Operable Unit ID:	992118
Operable Unit:	01
Material ID:	389037
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

F32 SSW < 1/8 0.080 mi. 421 ft. **BUTTERMILK CHANNEL** **VAN BRUNT PUMP STATION** **RED HOOK, NY** — **NY Spills** **S102180141** **N/A**

Relative: Lower **Actual: 2 ft.**

Site 8 of 14 in cluster F

SPILLS:

Facility ID:	9509026
Facility Type:	ER
DER Facility ID:	275035
Site ID:	305678
DEC Region:	2
Spill Date:	10/22/1995
Spill Number/Closed Date:	9509026 / 10/23/1995
Spill Cause:	Equipment Failure
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	MMMULQUE
Referred To:	Not reported
Reported to Dept:	10/22/1995
CID:	312
Water Affected:	BUTTERMILK CHANNEL
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	10/22/1995
Spill Record Last Update:	11/6/1995
Spiller Name:	Not reported
Spiller Company:	SAME

BUTTERMILK CHANNEL (Continued) **S102180141**

Spiller Address: Not reported
Spiller City,St,Zip: NN
Spiller Company: 999
Contact Name: CALLER
Contact Phone: Not reported
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MULQUEEN"
Remarks: PUMP FAILED CAUSING A BY-PASS THAT IS STILL GOING ON - UNK QTY THATHAS SPILLED INTO THE CHANNEL - ENDED AT 1530

Material:
Site ID: 305678
Operable Unit ID: 1019598
Operable Unit: 01
Material ID: 359989
Material Code: 0062A
Material Name: RAW SEWAGE
Case No.: Not reported
Material FA: Other
Quantity: 40000
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

F33 SSW < 1/8 0.080 mi. 421 ft. **VAN BRUNT PUMP STATION**
VAN BRUNT & REED ST
BROOKLYN, NY
NY Spills **S102148982**
N/A

Site 9 of 14 in cluster F

Relative: Lower
Actual: 2 ft.

SPILLS:
Facility ID: 9410731
Facility Type: ER
DER Facility ID: 90360
Site ID: 102004
DEC Region: 2
Spill Date: 11/11/1994
Spill Number/Closed Date: 9410731 / 11/15/1994
Spill Cause: Equipment Failure
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken
SWIS: 2401
Investigator: SMMARTIN
Referred To: Not reported
Reported to Dept: 11/11/1994
CID: Not reported
Water Affected: NY HARBOR UPPER BAY
Spill Source: Institutional, Educational, Gov., Other
Spill Notifier: Responsible Party
Cleanup Ceased: 11/15/1994
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False

VAN BRUNT PUMP STATION (Continued) **S102148982**

Remediation Phase: 0
Date Entered In Computer: 12/12/1994
Spill Record Last Update: 9/30/2004
Spiller Name: Not reported
Spiller Company: NYC DEP
Spiller Address: 84TH ST & AVENUE "V"
Spiller City,St,Zip: BROOKLYN, NY
Spiller Company: 001
Contact Name: Not reported
Contact Phone: Not reported
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MARTINKAT"
Remarks: DISCHARGE LINE BROKE -BYPASSED STATION-SPILL INTO BAY REPAIRING LINE NO FURTHER ACTIONS.

Material:
Site ID: 102004
Operable Unit ID: 1008609
Operable Unit: 01
Material ID: 376598
Material Code: 0062A
Material Name: RAW SEWAGE
Case No.: Not reported
Material FA: Other
Quantity: 0
Units: Not reported
Recovered: No
Resource Affected: Not reported
Oxygenate: False
Site ID: 102004
Operable Unit ID: 1008609
Operable Unit: 01
Material ID: 376597
Material Code: 0066A
Material Name: UNKNOWN PETROLEUM
Case No.: Not reported
Material FA: Petroleum
Quantity: 12000
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test.

F34 SSW < 1/8 0.080 mi. 421 ft. **VAN BRUNT PUMP STATION**
VAN BRUNT PUMP STATION
BROOKLYN, NY
NY Spills **S102148581**
N/A

Site 10 of 14 in cluster F

Relative: Lower
Actual: 2 ft.

SPILLS:
Facility ID: 9406207
Facility Type: ER
DER Facility ID: 246918
Site ID: 305677
DEC Region: 2

VAN BRUNT PUMP STATION (Continued) **S102148581**

Spill Date:	8/6/1994
Spill Number/Closed Date:	9406207 / 8/6/1994
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	SMMARTIN
Referred To:	Not reported
Reported to Dept:	8/6/1994
CID:	Not reported
Water Affected:	MILLBROOK CREEK
Spill Source:	Institutional, Educational, Gov , Other
Spill Notifier:	Affected Persons
Cleanup Ceased:	8/6/1994
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	10/19/1994
Spill Record Last Update:	9/30/2004
Spiller Name:	Not reported
Spiller Company:	VAN BRUNT PUMP STATION
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MARTINKAT"10/10/95: This is additional information about material spilled from the translation of the old spill file: RAW SEWAGE .0117MG.
Remarks:	PUMP FAILURE -RESET PUMPS AND ADJUST FLOATS-NCB- REFER TO SPDES

Material:

Site ID:	305677
Operable Unit ID:	1000350
Operable Unit:	01
Material ID:	379256
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

F35
SSW
< 1/8
0.080 mi.
421 ft.

VAN BRUNT ST PUMP STATION
READE STREET & VAN BRUNT
NEW YORK CITY, NY

NY Spills **S102145317**
N/A

Site 11 of 14 in cluster F

Relative:
Lower

Actual:
2 ft.

SPILLS:

Facility ID:	8900240
Facility Type:	ER
DER Facility ID:	95824
Site ID:	109049
DEC Region:	2
Spill Date:	4/9/1989
Spill Number/Closed Date:	8900240 / 4/9/1989
Spill Cause:	Unknown
Spill Class:	Not reported
SWIS:	2401
Investigator:	MANDALA
Referred To:	Not reported
Reported to Dept:	4/9/1989
CID:	Not reported
Water Affected:	UPPER NY BAY
Spill Source:	Commercial/Industrial
Spill Notifier:	Local Agency
Cleanup Ceased:	4/9/1989
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	4/18/1989
Spill Record Last Update:	9/30/2004
Spiller Name:	Not reported
Spiller Company:	NYCDEP
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	SENDING CREW TO DETERMINE WHAT HAPPENED.

Material:

Site ID:	109049
Operable Unit ID:	926644
Operable Unit:	01
Material ID:	567915
Material Code:	0062A
Material Name:	RAW SEWAGE
Case No.:	Not reported
Material FA:	Other
Quantity:	-1
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

F36 SSW < 1/8 0.080 mi. 421 ft. **VAN BROWN ST. & READ ST.**
VAN BROWN ST. & READ ST.
BROOKLYN, NY
NY Spills **S103560413**
N/A

Site 12 of 14 in cluster F

Relative: Lower
Actual: 2 ft.

SPILLS:

Facility ID:	9210558
Facility Type:	ER
DER Facility ID:	142877
Site ID:	169714
DEC Region:	2
Spill Date:	12/11/1992
Spill Number/Closed Date:	9210558 / 2/15/1995
Spill Cause:	Other
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response, Willing Responsible Party, Corrective action taken.
SWIS:	2401
Investigator:	FIFOLT
Referred To:	Not reported
Reported to Dept:	12/13/1992
CID:	Not reported
Water Affected:	UPPER NY BAY
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Responsible Party
Cleanup Ceased:	2/15/1995
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	12/13/1992
Spill Record Last Update:	2/15/1995
Spiller Name:	Not reported
Spiller Company:	N.Y.C. DEP
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "FIFOLT/MARTINKA"
Remarks:	STATION FLOODED BY STORM. NO OTHER AGENCIES NOTIFIED. DEP CLEANING UP. Not reported

Material:

Site ID:	169714
Operable Unit ID:	974813
Operable Unit:	01
Material ID:	404014
Material Code:	0062A
Material Name:	RAW SEWAGE
Case No.:	Not reported
Material FA:	Other
Quantity:	-1
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

VAN BROWN ST. & READ ST. (Continued) **S103560413**

Tank Test:

F37 SSW < 1/8 0.080 mi. 421 ft. **VAN BRUNT PUMP STA/BKLYN**
VAN BRUNT PUMP STATION
NEW YORK CITY, NY
NY Spills **S102145339**
N/A

Site 13 of 14 in cluster F

Relative: Lower
Actual: 2 ft.

SPILLS:

Facility ID:	8901074
Facility Type:	ER
DER Facility ID:	281899
Site ID:	305676
DEC Region:	2
Spill Date:	5/3/1989
Spill Number/Closed Date:	8901074 / 5/3/1989
Spill Cause:	Equipment Failure
Spill Class:	Not reported
SWIS:	2401
Investigator:	CANZIANI
Referred To:	Not reported
Reported to Dept:	5/3/1989
CID:	Not reported
Water Affected:	GOWANUS CANAL
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	5/3/1989
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	5/4/1989
Spill Record Last Update:	9/30/2004
Spiller Name:	Not reported
Spiller Company:	NYCDEP
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	BROKEN PUMPS, PUMPS MAY BE CLOGGED OR BROKEN.

Material:

Site ID:	305676
Operable Unit ID:	927930
Operable Unit:	01
Material ID:	452384
Material Code:	0062A
Material Name:	RAW SEWAGE
Case No.:	Not reported
Material FA:	Other
Quantity:	-1
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported

VAN BRUNT PUMP STA/BKLYN (Continued) **S102145339**

Oxygenate: False

Tank Test:

F38 SSW < 1/8 0.080 mi. 421 ft. **VAN BRUNT PUMPING STATION**
VAN BRUNT PUMPING STATION
BROOKLYN, NY
NY Spills **S102145724**
N/A

Site 14 of 14 in cluster F

Relative: Lower
Actual: 2 ft.

SPILLS:

Facility ID:	8912230
Facility Type:	ER
DER Facility ID:	186732
Site ID:	226223
DEC Region:	2
Spill Date:	3/23/1990
Spill Number/Closed Date:	8912230 / 4/9/1990
Spill Cause:	Equipment Failure
Spill Class:	Not reported
SWIS:	2401
Investigator:	MANDALA
Referred To:	Not reported
Reported to Dept:	3/24/1990
CID:	Not reported
Water Affected:	NEW YORK HARBOR
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	4/9/1990
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	4/19/1990
Spill Record Last Update:	11/25/1994
Spiller Name:	Not reported
Spiller Company:	NYCDEP
Spiller Address:	VAN BRUNT STREET
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	PUMPING STATION MALFUNCTION DEC NOTIFIED.PROBLEM IS RECTIFIED

Material:

Site ID:	226223
Operable Unit ID:	939080
Operable Unit:	01
Material ID:	441702
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Not reported

VAN BRUNT PUMPING STATION (Continued) **S102145724**

Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

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39 NNW < 1/8 0.080 mi. 423 ft. **CANAL SANITATION**
162 VAN DYKE STREET
BROOKLYN, NY
NY Spills **S108637726**
N/A

Relative: Higher
Actual: 8 ft.

SPILLS:

Facility ID:	0702571
Facility Type:	ER
DER Facility ID:	331744
Site ID:	382320
DEC Region:	2
Spill Date:	6/1/2007
Spill Number/Closed Date:	0702571 / 6/11/2007
Spill Cause:	Equipment Failure
Spill Class:	Not reported
SWIS:	2401
Investigator:	hrpatel
Referred To:	Not reported
Reported to Dept:	6/1/2007
CID:	444
Water Affected:	SEWER
Spill Source:	Commercial Vehicle
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	6/1/2007
Spill Record Last Update:	1/28/2009
Spiller Name:	SAMUEL GONZALAS
Spiller Company:	CANAL SANITATION
Spiller Address:	162 VAN DYKE STREET
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	999
Contact Name:	SAMUEL GONZALAS
Contact Phone:	(917) 753-2424
DEC Memo:	06/01/07-Hiralkumar Patel. spoke with Mr. Gonzalas he noticed sanitation truck parked on street. operator parks truck everyday on street and there is public park nearby. Mr. Gonzalas noticed a oil puddle under truck. asked Mr. Gonzalas to provide phone number for truck operator. Mr. Gonzalas will call back.06/11/07-Hiralkumar Patel. spoke with Mr. Gonzalas. he noticed that truck company has moved and now no trucks parked at site. no more oil spill. case closed.
Remarks:	TRUCK LEAKS ON ROAD AND INTO SEWER EVERYDAY

Material:

Site ID:	382320

CANAL SANITATION (Continued) **S108637728**

Operable Unit ID:	1139721
Operable Unit:	01
Material ID:	2129762
Material Code:	0010
Material Name:	Hydraulic Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test.

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40 SSW < 1/8 0.087 mi. 460 ft. **VAN BRUNT STORES WAREHOUSE** **RCRA NonGen / NLR 1000105427**
480 VAN BRUNT ST **FINDS NYD048354955**
BROOKLYN, NY 11231 **MANIFEST**

Relative: Lower
Actual: 3 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	VAN BRUNT STORES WAREHOUSE
Facility address:	480 VAN BRUNT ST BROOKLYN, NY 11231
EPA ID:	NYD048354955
Mailing address:	WORLD TRADE CENTER NEW YORK, NY 10048
Contact:	Not reported
Contact address:	WORLD TRADE CENTER NEW YORK, NY 10048
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Land type:	Facility is not located on Indian land. Additional information is not known
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	US CUSTOMS SVC
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	US CUSTOMS SVC
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212

VAN BRUNT STORES WAREHOUSE (Continued) **1000105427**

Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	01/01/2006
Facility name:	VAN BRUNT STORES WAREHOUSE
Classification:	Not a generator, verified
Date form received by agency:	12/17/1993
Facility name:	VAN BRUNT STORES WAREHOUSE
Classification:	Not a generator, verified
Date form received by agency:	06/10/1992
Facility name:	VAN BRUNT STORES WAREHOUSE
Site name:	US CUSTOMS SERVICE
Classification:	Large Quantity Generator
Date form received by agency:	02/10/1986
Facility name:	VAN BRUNT STORES WAREHOUSE
Classification:	Large Quantity Generator
Violation Status:	No violations found

Evaluation Action Summary:

Evaluation date:	12/17/1993
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	EPA Contractor/Grantee

FINDS:

Registry ID: 110004357115

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of

VAN BRUNT STORES WAREHOUSE (Continued) **1000105427**

events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:
EPA ID: NYD048354955
Country: USA

Mailing Info:
Name: UNITED STATES CUSTOMS SERVICE
Contact: UNITED STATES CUSTOMS SERVICE
Address: 480 VAN BRUNT STREET
City/State/Zip: BROOKLYN, NY 11231
Country: USA
Phone: 212-466-5567

Document ID: SCC0215910
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: Not reported
Trans2 State ID: Not reported
Generator Ship Date: 910215
Trans1 Recv Date: 910215
Trans2 Recv Date: Not reported
TSD Site Recv Date: 910222
Part A Recv Date: 910729
Part B Recv Date: 910722
Generator EPA ID: NYD048354955
Trans1 EPA ID: PAD008781072
Trans2 EPA ID: Not reported
TSDF ID: SCD044442333
Waste Code: D003 - NON-LISTED REACTIVE WASTES
Quantity: 02600
Units: P - Pounds
Number of Containers: 014
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 91

Document ID: NYB2711313
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: 35726ANY
Trans2 State ID: AA49538PA
Generator Ship Date: 910111
Trans1 Recv Date: 910111
Trans2 Recv Date: 910114
TSD Site Recv Date: 910117
Part A Recv Date: 910228
Part B Recv Date: 910215
Generator EPA ID: NYD048354955
Trans1 EPA ID: NYD057770109
Trans2 EPA ID: PAD008781072
TSDF ID: OHD083377010

VAN BRUNT STORES WAREHOUSE (Continued) **1000105427**

Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00165
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 003
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Waste Code: Not reported
Quantity: 00385
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 007
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 099
Year: 91

Document ID: NYB2711322
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: 35726ANY
Trans2 State ID: AA49538PA
Generator Ship Date: 910111
Trans1 Recv Date: 910111
Trans2 Recv Date: 910114
TSD Site Recv Date: 910117
Part A Recv Date: 910228
Part B Recv Date: 910214
Generator EPA ID: NYD048354955
Trans1 EPA ID: NYD057770109
Trans2 EPA ID: PAD008781072
TSDF ID: OHD083377010
Waste Code: D002 - NON-LISTED CORROSIVE WASTES
Quantity: 00700
Units: P - Pounds
Number of Containers: 006
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Waste Code: Not reported
Quantity: 00050
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Waste Code: Not reported
Quantity: 00002
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Waste Code: Not reported
Quantity: 00165
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 003
Container Type: DM - Metal drums, barrels

VAN BRUNT STORES WAREHOUSE (Continued) **1000105427**

Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	91

Document ID:	MDC0117725
Manifest Status:	Completed copy
Trans1 State ID:	HWHAA4936
Trans2 State ID:	HWH45987A
Generator Ship Date:	870817
Trans1 Recv Date:	870817
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	870825
Part A Recv Date:	870827
Part B Recv Date:	870903
Generator EPA ID:	NYD048354955
Trans1 EPA ID:	PAD980830061
Trans2 EPA ID:	Not reported
TSDF ID:	MDD000218008
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00330
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	006
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	87

Document ID:	SCB0111910
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	910111
Trans1 Recv Date:	910111
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	910118
Part A Recv Date:	910227
Part B Recv Date:	910301
Generator EPA ID:	NYD048354955
Trans1 EPA ID:	NYD057770109
Trans2 EPA ID:	Not reported
TSDF ID:	SCD044442333
Waste Code:	D003 - NON-LISTED REACTIVE WASTES
Quantity:	00500
Units:	P - Pounds
Number of Containers:	025
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	91

G41 West < 1/8 0.094 mi. 496 ft. **270 CONOVER ST**
270 CONOVER ST-CAR POUND
BROOKLYN, NY
Site 2 of 2 in cluster G

NY Spills **S102672637**
N/A

Relative: Lower
Actual: 7 ft.

SPILLS:

Facility ID:	9409309
Facility Type:	ER
DER Facility ID:	264010
Site ID:	327985
DEC Region:	2
Spill Date:	10/12/1994
Spill Number/Closed Date:	9409309 / 3/16/1995
Spill Cause:	Deliberate
Spill Class:	Not reported
SWIS:	2401
Investigator:	LAW ENFORCEMENT
Referred To:	LAW ENFORCEMENT
Reported to Dept:	10/12/1994
CID:	Not reported
Water Affected:	NEW YORK HARBOR
Spill Source:	Commercial Vehicle
Spill Notifier:	Federal Government
Cleanup Ceased:	3/16/1995
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	11/3/1994
Spill Record Last Update:	3/16/1995
Spiller Name:	Not reported
Spiller Company:	NYS PLATE CXTX8475
Spiller Address:	436 3RD AVE
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	DUMPED ROCK & SOIL INTO NEW YORK HARBOR-NYC DEP IS NOTIFIED.

Material:

Site ID:	327985
Operable Unit ID:	1003268
Operable Unit:	01
Material ID:	378731
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

42
North
< 1/8
0.108 mi.
568 ft.

260 COFFEY ST/BKLYN
260 COFFEY STREET
NEW YORK CITY, NY

NY Spills **S102145511**
N/A

Relative:
Higher

Actual:
8 ft.

SPILLS:

Facility ID:	8906587
Facility Type:	ER
DER Facility ID:	123754
Site ID:	145212
DEC Region:	2
Spill Date:	8/17/1989
Spill Number/Closed Date:	8906587 / 10/4/1989
Spill Cause:	Deliberate
Spill Class:	Not reported
SWIS:	2401
Investigator:	O'DOWD
Referred To:	Not reported
Reported to Dept:	10/4/1989
CID:	Not reported
Water Affected:	BUTTERMILK CHANNEL
Spill Source:	Commercial/Industrial
Spill Notifier:	Citizen
Cleanup Ceased:	10/4/1989
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	10/16/1989
Spill Record Last Update:	10/17/1989
Spiller Name:	Not reported
Spiller Company:	ZALENTE INDUSTRIES
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	ZALENTE INDUSTRIES DUMPING CEMENT SLURRY INTO CHANNEL, REFERRED TO THEECO'S.

Material:

Tank Test:

43
West
< 1/8
0.108 mi.
571 ft.

METRO REBUILDERS
269 CONOVER ST
BROOKLYN, NY

NY Spills **S103482732**
N/A

Relative:
Lower

Actual:
5 ft.

SPILLS:

Facility ID:	9804632
Facility Type:	ER
DER Facility ID:	93362
Site ID:	105877
DEC Region:	2

METRO REBUILDERS (Continued) **S103482732**

Spill Date:	5/1/1998
Spill Number/Closed Date:	9804632 / 2/9/2004
Spill Cause:	Deliberate
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.
SWIS:	2401
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	7/13/1998
CID:	365
Water Affected:	RIVER (UNSURE NAME)
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	7/13/1998
Spill Record Last Update:	2/9/2004
Spiller Name:	Not reported
Spiller Company:	METRO REBUILDERS
Spiller Address:	190 3RD AVENUE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	(718) 797-3509
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "AUSTIN"7/13/98 Spoke to caller Steve Bernardo:Says his boss who is owner of Metro Rebuilders (Russel Costelano) dumped two autombile engines into water (Upper New York Bay) with motor oil and transmission oil still in them. Says engines were stolen but does not know how his boss came into possession of them. Says you can see engines during low tide. Says there was sheen in river. Yard is open from 9 AM to 7 or 8 PM. Telephone of Metro Rebuilders is (718) 797-3509. Costelano's office is at 190 3rd Ave., Brooklyn. Office number is (718) 369-6600. Steve Bernardo should not be contacted at his workplace concerning this matter.7/14 visited area. Inspected shoreline from public park just north of Metro Rebuilders from private property just south. Did not see any sheen or engines but tide was high.Referred to ECOs on 7/15/982/9/04 - AUSTIN - NO FURTHER INFO ON THIS MATTER - CLOSED - ORIG. ASSIGNED TO ENGELHARDT - END
Remarks:	CALLER IS EX-EMPLOYEE OF BUSINESS & WITNESSED OTHER EMPLOYEES DUMPING ENGINES INTO THE RIVER (HE WASN'T SURE OF THE NAME OF THE RIVER) - HE SAYS THERE IS TRANSMISSION OIL & MOTOR OIL SHEENS FLOATING IN THE RIVER

Material:

Site ID:	105877
Operable Unit ID:	1062544
Operable Unit:	01
Material ID:	319352
Material Code:	0021
Material Name:	Transmission Fluid
Case No.:	Not reported
Material FA:	Petroleum

METRO REBUILDERS (Continued) S103482732

Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False
Site ID:	105877
Operable Unit ID:	1062544
Operable Unit:	01
Material ID:	319351
Material Code:	0015
Material Name:	Motor Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

---

44 NNE < 1/8 0.109 mi. 578 ft. **CONOVER STREET BETWEEN DYKEMAN AND COFFEY BROOKLYN, NY** NY Spills S106002787 N/A

Relative: Higher **Actual: 9 ft.**

SPILLS:

Facility ID:	0200661
Facility Type:	ER
DER Facility ID:	218143
Site ID:	267780
DEC Region:	2
Spill Date:	4/17/2002
Spill Number/Closed Date:	0200661 / 3/7/2003
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Unknown Responsible Party. Corrective action taken. (ISR)
SWIS:	2401
Investigator:	WYNE
Referred To:	Not reported
Reported to Dept:	4/17/2002
CID:	282
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	DEC
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	4/17/2002
Spill Record Last Update:	3/7/2003
Spiller Name:	Not reported
Spiller Company:	UNKNOWN

CONOVER STREET BETWEEN (Continued) S106002787

Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	JOHN MCGETTRICK
Contact Phone:	(718) 424-4040
DEC Memo:	Not reported
Remarks:	citizen called mr mcgettrick oil is covering the street

Material:

Site ID:	267780
Operable Unit ID:	851549
Operable Unit:	01
Material ID:	522099
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

---

45 NW < 1/8 0.119 mi. 627 ft. **CORNELL PAPER BOX INC. 180 VAN DYKE STREET BROOKLYN, NY 11231** AST U004046450 N/A

Relative: Lower **Actual: 5 ft.**

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated
Facility Id:	2-608414
Program Type:	PBS
UTM X:	583272.99300000002
UTM Y:	4503229.8584700003
Expiration Date:	2008-02-26
Site Type:	Unknown

Affiliation Records:

Site Id:	30266
Affiliation Type:	Facility Owner
Company Name:	MARC ROBBINS
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	162 VAN DYKE ST
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11231
Country Code:	001
Phone:	(718) 875-3202
EMail:	Not reported
Fax Number:	Not reported

CORNELL PAPER BOX INC. (Continued) **U004046450**

Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 30266
Affiliation Type: Mail Contact
Company Name: CORNELL LAPERBOX INC.
Contact Type: Not reported
Contact Name: Not reported
Address1: 162 VAN DYKE STREET
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11231
Country Code 001
Phone: (718) 875-3202
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 30266
Affiliation Type: On-Site Operator
Company Name: CORNELL PAPER BOX INC.
Contact Type: Not reported
Contact Name: CORNELL LAPERBOX
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 875-3202
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 30266
Affiliation Type: Emergency Contact
Company Name: MARC ROBBINS
Contact Type: Not reported
Contact Name: MARC ROBBINS
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (917) 509-8155
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Tank Info:

Tank Number: 001

CORNELL PAPER BOX INC. (Continued) **U004046450**

Tank Id: 65138
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:
I05 - Overfill - Vent Whistle
J00 - Dispenser - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
A04 - Tank Internal Protection - Glass Liner
C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
G03 - Tank Secondary Containment - Vault (w/o access)
D10 - Pipe Type - Copper

Tank Location: 6
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: Not reported
Capacity Gallons: 5000
Tightness Test Method: 21
Date Test: 06/02/2003
Next Test Date: Not reported
Date Tank Closed: 06/01/2003
Register: True
Modified By: TRANSLAT
Last Modified: 03/04/2004
Material Name: #2 Fuel Oil (On-Site Consumption)

---

46 **206 RICHARDS ST / LOT** **NY Spills** **S102144508**
ESE **206 RICHARDS ST/COFFEY** **N/A**
< 1/8 **BROOKLYN, NY**
0.124 mi.
656 ft.

Relative:
Lower

Actual:
7 ft.

SPILLS:
Facility ID: 8700667
Facility Type: ER
DER Facility ID: 149385
Site ID: 177783
DEC Region: 2
Spill Date: 4/23/1987
Spill Number/Closed Date: 8700667 / 4/23/1987
Spill Cause: Deliberate
Spill Class: Not reported
SWIS: 2401
Investigator: UNASSIGNED
Referred To: Not reported
Reported to Dept: 4/23/1987
CID: Not reported
Water Affected: NONE
Spill Source: Commercial/Industrial
Spill Notifier: Affected Persons
Cleanup Ceased: 4/23/1987
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: False

206 RICHARDS ST / LOT (Continued) **S102144508**

UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 4/24/1987
Spill Record Last Update: 2/18/2003
Spiller Name: Not reported
Spiller Company: INTER-BURRUOGH CONTAINERS
Spiller Address: 1-201-235-1122 ---ALSO---
Spiller City,St,Zip: ALLEGRO CONTAINERS, ZZ
Spiller Company: 001
Contact Name: Not reported
Contact Phone: Not reported
DEC Memo: Prior to Sept. 2004 data translation this spill Lead_DEC Field was "
"10/10/95: This is additional information about material spilled from
the translation of the old spill file: UNKNOWN HAZ / MAT.
Remarks: VACANT LOT NEXT TO 206 RICHARD STREET. DUMPSTERS PUT IN HIS YARD AND
ON LOT. WITNESSES TO DUMPING. HOLE DUG AND MATERIALS PUT INTO HOLE AND
Not reported

Material:
Site ID: 177783
Operable Unit ID: 905160
Operable Unit: 01
Material ID: 470653
Material Code: 0066A
Material Name: UNKNOWN PETROLEUM
Case No.: Not reported
Material FA: Petroleum
Quantity: -1
Units: Pounds
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

---

47 NE < 1/8 0.125 mi. 659 ft.

CON EDISON MANHOLE: 43655
VAN BRUNT ST & DIKEMAN ST SW
BROOKLYN, NY 11231

RCRA-CESQG **1016149945** **NYP004286134**

Relative: Higher
Actual: 10 ft.

RCRA-CESQG:
Date form received by agency: 01/29/2013
Facility name: CON EDISON MANHOLE: 43655
Facility address: VAN BRUNT ST & DIKEMAN ST SW
COR
BROOKLYN, NY 11231
EPA ID: NYP004286134
Mailing address: IRVING PL, RM 828
NEW YORK, NY 10003
Contact: ANTHONY SIGNORE
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (718) 802-3008
Contact email: Not reported
EPA Region: 02

CON EDISON MANHOLE: 43655 (Continued) **1016149945**

Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

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48 NNE 1/8-1/4 0.126 mi. 664 ft.

MATTHEW RUGGIERO PLUMBING CO. INC.
125 DIKEMAN STREET
BROOKLYN, NY 11231

UST **U003397258** **N/A**

Relative: Higher
Actual: 10 ft.

UST:
Id/Status: 2-603570 / Unregulated
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: 2013-07-22
UTM X: 583341.03133000003
UTM Y: 4503364.3671000004
Site Type: Apartment Building/Office Building

Affiliation Records:
Site Id: 25484
Affiliation Type: Mail Contact
Company Name: MATTHEW RUGGIERO PLUMBING CO. INC.
Contact Type: Not reported
Contact Name: MR. MATTHEW RUGGIERO
Address1: 18 2ND PLACE
Address2: Not reported

MATTHEW RUGGIERO PLUMBING CO. INC. (Continued) U003397258

City:	BROOKLYN
State:	NY
Zip Code:	11231
Country Code:	001
Phone:	(718) 875-3594
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	11/17/2010

Site Id:	25484
Affiliation Type:	Emergency Contact
Company Name:	MATTHEW RUGGIERO
Contact Type:	Not reported
Contact Name:	MATTHEW RUGGIERO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 875-3594
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	11/17/2010

Site Id:	25484
Affiliation Type:	On-Site Operator
Company Name:	MATTHEW RUGGIERO PLUMBING CO. INC.
Contact Type:	Not reported
Contact Name:	MATTHEW RUGGIERO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 875-3594
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	11/17/2010

Site Id:	25484
Affiliation Type:	Facility Owner
Company Name:	MATTHEW RUGGIERO
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	18 2ND PLACE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11231
Country Code:	001
Phone:	(718) 875-3594
EMail:	Not reported

MATTHEW RUGGIERO PLUMBING CO. INC. (Continued) U003397258

Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	11/17/2010

Tank Info:

Tank Number:	001
Tank ID:	54831
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	1000
Install Date:	09/01/1998
Date Tank Closed:	10/26/2010
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0008
Common Name of Substance:	Diesel

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	11/17/2010

Equipment Records:

A00 - Tank Internal Protection - None
J01 - Dispenser - Pressurized Dispenser
C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I02 - Overfill - High Level Alarm
B00 - Tank External Protection - None
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
G04 - Tank Secondary Containment - Double-Walled (Underground)
L08 - Piping Leak Detection - Tank Top Sump
E04 - Piping Secondary Containment - Double-Walled (Underground)
F00 - Pipe External Protection - None
K01 - Spill Prevention - Catch Basin

Tank Number:	002
Tank ID:	54832
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	1000
Install Date:	09/01/1998
Date Tank Closed:	10/26/2010
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0008
Common Name of Substance:	Diesel

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported

MATTHEW RUGGIERO PLUMBING CO. INC. (Continued) U003397258

Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 11/17/2010

Equipment Records:

A00 - Tank Internal Protection - None
J01 - Dispenser - Pressurized Dispenser
B00 - Tank External Protection - None
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
G04 - Tank Secondary Containment - Double-Walled (Underground)
L08 - Piping Leak Detection - Tank Top Sump
C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I02 - Overfill - High Level Alarm
E04 - Piping Secondary Containment - Double-Walled (Underground)
F00 - Pipe External Protection - None
K01 - Spill Prevention - Catch Basin

Tank Number: 003
Tank ID: 54833
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 1000
Install Date: 09/01/1998
Date Tank Closed: 10/26/2010
Registered: True
Tank Location: Underground
Tank Type: Equivalent technology
Material Code: 0008
Common Name of Substance: Diesel

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 11/17/2010

Equipment Records:

A00 - Tank Internal Protection - None
J01 - Dispenser - Pressurized Dispenser
B00 - Tank External Protection - None
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
G04 - Tank Secondary Containment - Double-Walled (Underground)
L08 - Piping Leak Detection - Tank Top Sump
C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I02 - Overfill - High Level Alarm
E04 - Piping Secondary Containment - Double-Walled (Underground)
F00 - Pipe External Protection - None
K01 - Spill Prevention - Catch Basin

H49 SE 1/8-1/4 0.128 mi. 674 ft. **NYNEX** **MANIFEST** 1009234593
BEARD ST & RICHARD ST N/A
BROOKLYN, NY

Site 1 of 4 in cluster H

Relative: Lower **Actual: 1 ft.**

NY MANIFEST:
EPA ID: NYP000933093
Country: USA

Mailing Info:
Name: NYNEX
Contact: V. ORCHIER
Address: 221 E 37TH ST
City/State/Zip: NEW YORK, NY 10016
Country: USA
Phone: 212-338-7126

Document ID: MIA4512874
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: Not reported
Trans2 State ID: Not reported
Generator Ship Date: 970123
Trans1 Recv Date: 970123
Trans2 Recv Date: 970124
TSD Site Recv Date: 970208
Part A Recv Date: Not reported
Part B Recv Date: 970224
Generator EPA ID: NYP000933093
Trans1 EPA ID: NYD010951986
Trans2 EPA ID: NYD046765574
TSDF ID: MID096963194
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 00800
Units: P - Pounds
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: L Landfill.
Specific Gravity: 100
Year: 97

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50 ESE 1/8-1/4 0.128 mi. 676 ft. **221-229 RICHARDS STREET** **UST** U004190186
221 RICHARDS STREET N/A
BROOKLYN, NY 11231

Relative: Lower **Actual: 5 ft.**

UST:
Id/Status: 2-611805 / Unregulated
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: 2011-12-15
UTM X: Not reported
UTM Y: Not reported
Site Type: Other

Affiliation Records:
Site Id: 463386
Affiliation Type: Mail Contact

221-229 RICHARDS STREET (Continued) U004190186

Company Name: RACHELS ISLAND, LLC
Contact Type: Not reported
Contact Name: JOSEPH HOFFMAN
Address1: 79 LORIMER STREET
Address2: SUITE 4A
City: BROOKLYN
State: NY
Zip Code: 11206
Country Code: 001
Phone: (718) 417-1616
EMail: JH@BUSHBURG.COM
Fax Number: Not reported
Modified By: CGFREEDM
Date Last Modified: 4/24/2012

Site Id: 463386
Affiliation Type: On-Site Operator
Company Name: 221-229 RICHARDS STREET
Contact Type: Not reported
Contact Name: JOSEPH HOFFMAN
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 417-1616
EMail: Not reported
Fax Number: Not reported
Modified By: MSBAPTIS
Date Last Modified: 4/23/2012

Site Id: 463386
Affiliation Type: Emergency Contact
Company Name: RACHELS ISLAND, LLC
Contact Type: Not reported
Contact Name: JOSEPH HOFFMAN
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 417-1616
EMail: Not reported
Fax Number: Not reported
Modified By: MSBAPTIS
Date Last Modified: 4/23/2012

Site Id: 463386
Affiliation Type: Facility Owner
Company Name: RACHELS ISLAND, LLC
Contact Type: Not reported
Contact Name: JOSEPH HOFFMAN
Address1: 79 LORIMER STREET, SUITE 4A
Address2: Not reported
City: BROOKLYN

221-229 RICHARDS STREET (Continued) U004190186

State: NY
Zip Code: 11206
Country Code: 001
Phone: (718) 417-1616
EMail: Not reported
Fax Number: Not reported
Modified By: CGFREEDM
Date Last Modified: 4/24/2012

Tank Info:

Tank Number: 001
Tank ID: 243771
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 300
Install Date: Not reported
Date Tank Closed: 12/15/2011
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: CGFREEDM
Last Modified: 04/24/2012

Equipment Records:

A00 - Tank Internal Protection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
I00 - Overfill - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

Tank Number: 002
Tank ID: 243772
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 300
Install Date: Not reported
Date Tank Closed: 12/15/2011
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009

221-229 RICHARDS STREET (Continued) U004190186

Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: CGFREEDM
Last Modified: 04/24/2012

Equipment Records:

E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
L00 - Piping Leak Detection - None
I00 - Overfill - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

Tank Number: 003
Tank ID: 243773
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 300
Install Date: Not reported
Date Tank Closed: 12/15/2011
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: CGFREEDM
Last Modified: 04/24/2012

Equipment Records:

A00 - Tank Internal Protection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
I00 - Overfill - None
L00 - Piping Leak Detection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

221-229 RICHARDS STREET (Continued) U004190186

Tank Number: 004
Tank ID: 243774
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 300
Install Date: Not reported
Date Tank Closed: 12/15/2011
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: CGFREEDM
Last Modified: 04/24/2012

Equipment Records:

A00 - Tank Internal Protection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
I00 - Overfill - None
L00 - Piping Leak Detection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

Tank Number: 005
Tank ID: 243775
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 300
Install Date: Not reported
Date Tank Closed: 12/15/2011
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: CGFREEDM
Last Modified: 04/24/2012

Equipment Records:

A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping

221-229 RICHARDS STREET (Continued) U004190186

G00 - Tank Secondary Containment - None
J00 - Dispenser - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
L00 - Piping Leak Detection - None
I00 - Overfill - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

Tank Number:	006
Tank ID:	243780
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	300
Install Date:	Not reported
Date Tank Closed:	12/15/2011
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	CGFREEDM
Last Modified:	04/24/2012

Equipment Records:

D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
L00 - Piping Leak Detection - None
I00 - Overfill - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

H51 SSE 1/8-1/4 0.133 mi. 700 ft. **REVERE SUGAR CORP** **280 RICHARDS ST** **BROOKLYN, NY 11231** — LTANKS, MANIFEST, NY Spills — S106703436, N/A

Site 2 of 4 in cluster H

Relative: Lower **Actual: 1 ft.**

LTANKS:

Site ID:	292247
Spill Number/Closed Date:	9001856 / 12/6/1991
Spill Date:	5/16/1990
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial

REVERE SUGAR CORP (Continued) S106703436

Spill Class:	Not reported
Cleanup Ceased:	12/6/1991
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	TOMASELLO
Referred To:	Not reported
Reported to Dept:	5/17/1990
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Local Agency
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	5/22/1990
Spill Record Last Update:	10/23/2003
Spiller Name:	Not reported
Spiller Company:	REVERE SUGAR CORPORATION
Spiller Address:	280 RICHARDS ST
Spiller City,St,Zip:	BROOKLYN, NY 11231-
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	236614
DEC Memo:	Not reported
Remarks:	NYCDEP,NYCFD NOTIFIED, DEC(TOMASELLO) RESPONDED, REFERRED TO HAZ SUBSTANCES REMEDIATION,

Material:

Tank Test:

NY MANIFEST:

EPA ID:	NYD078179090
Country:	USA

Mailing Info:

Name:	REVERE SUGAR CORP
Contact:	L ADAMS
Address:	280 RICHARDS STREET
City/State/Zip:	BROOKLYN, NY 11231
Country:	USA
Phone:	212-403-3400

NY MANIFEST:

No Manifest Records Available

SPILLS:

Facility ID:	0610967
Facility Type:	ER
DER Facility ID:	236614
Site ID:	375509

REVERE SUGAR CORP (Continued) S106703436

DEC Region:	2
Spill Date:	12/31/2006
Spill Number/Closed Date:	0610967 / 1/2/2007
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	HRPATEL
Referred To:	Not reported
Reported to Dept:	12/31/2006
CID:	74
Water Affected:	BUTTERMILK CHANNEL
Spill Source:	Unknown
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	12/31/2006
Spill Record Last Update:	1/2/2007
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ -
Spiller Company:	001
Contact Name:	SHAWN DONOHUE
Contact Phone:	(212) 689-1520
DEC Memo:	01/02/07-Hiralkumar Patel, visited site on 12/31/06, DEP crew was working at site repairing broken water main line. during excavation, as they reached closed to main line, they found oily water filling excavation pit. they don't know whether any line leaked during excavation or this oil coming from oil saturated soil. there is old sugar factory on other side of street where this excavation work going on. spoke with security guard at sugar factory, he mentioned that he observed oil and water overflowing from sewer on street at 3 O'clock in morning and after smelling gasoline, he reported to fire department. fire department responded and found sheen on water and left scene. as per security guard, suger factory will be demolished soon for reconstruction. walked along sugar facotry side walk. all water puddles on street had oil sheen on it. light to heavy oil sheen observed inside sugar facoty as oil/water from sewer ran into factory also. no odors at site. very little sheen on water in excavation pit for water main break.spoke with DEC Jacob. explained him situation about oily puddles over street. he asked not to call DEC contracctor for any cleanup as oil from unknown site. he asked to check any open/close spill in this area.met Ms. Persis and Endrew Kelly from DEP. Ms. Persis contacted their department and asked for vaccum truck to remove water from this excavation. DEP will do cleanup of their excavation area only and will not do any further cleanup. before leaving site, asked Ms. Persis to check for any contaminated soil, once they empty out excavation pit.Ms. Persis917-662-0768Endrew Kelly718-595-4761Dan Jennings (sugar factory manager)280 Richards StreetBrooklyn, NYPh. (212) 434-3045 (718) 254-0584received call from Shay McAtamney (718-595-4618) from DEP on 01/01/07, she mentioned that they removed water from excavation pit but still more water

REVERE SUGAR CORP (Continued) S106703436

	coming in, so they decided to pump this water in local catch basin and will treat this water in treatment plant. they already notified treatment plant for additional load. once they get clear area, they will check whether main line was affected with this oil or not. asked Shay to call back with more details.spoke with Shay today, they have finished their repair. DEP observed contaminated soil around water line. as per Shay this are was industrial in past and believes this contamination is from past. main water line was not affected.spoke with DEC Jacob. he suggested to close this case.
Remarks:	excavation for a water main breakHole is filling up with oil - unknown from wherePlease contact caller

Material:

Site ID:	375509
Operable Unit ID:	1133143
Operable Unit:	01
Material ID:	2122945
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	0811098
Facility Type:	ER
DER Facility ID:	357894
Site ID:	408651
DEC Region:	2
Spill Date:	1/6/2009
Spill Number/Closed Date:	0811098 / Not Reported
Spill Cause:	Unknown
Spill Class:	Not reported
SWIS:	2401
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	1/6/2009
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	1
Date Entered In Computer:	1/6/2009
Spill Record Last Update:	12/4/2009
Spiller Name:	Not reported
Spiller Company:	UNKNOWN

REVERE SUGAR CORP (Continued) **S106703436**

Spiller Address: Not reported
Spiller City,St,Zip: NY
Spiller Company: 999
Contact Name: SIN SENH
Contact Phone: (631) 232-2600
DEC Memo: I spoke with Jamie Barr. He is not contractor. Roux is. During drilling, free phase 6 oil was found approx 10' below the water table. Investigation is ongoing.Geotech contractor was drilling found contamiantion below water table. site is along water.DECPiper spoke with Roux. RAWP is being generated.
Remarks: Were drilling for development/discovered 17 ft below grade found free product of #6 oil.

Material:
Site ID: 408651
Operable Unit ID: 1165173
Operable Unit: 01
Material ID: 2156574
Material Code: 0003A
Material Name: #6 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Gallons
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: False

Tank Test:

H52 **REVERE SUGAR CORP BROOKLYN** **RCRA NonGen / NLR** **1000214648**
SSE **280 RICHARDS STREET** **FINDS** **NYD078179090**
1/8-1/4 **BROOKLYN, NY** **US AIRS**
0.133 mi.
700 ft. **Site 3 of 4 in cluster H**

Relative:
Lower

Actual:
1 ft.

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: REVERE SUGAR CORP
Facility address: 280 RICHARD ST
BROOKLYN, NY 11231
EPA ID: NYD078179090
Mailing address: RICHARD ST
BROOKLYN, NY 11231
Contact: Not reported
Contact address: RICHARD ST
BROOKLYN, NY 11231
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

REVERE SUGAR CORP BROOKLYN (Continued) **1000214648**

Owner/operator name: Not reported
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: Not reported
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: REVERE SUGAR CORP
Classification: Not a generator, verified

Date form received by agency: 03/01/1985
Facility name: REVERE SUGAR CORP
Classification: Not a generator, verified

Date form received by agency: 06/12/1984
Facility name: REVERE SUGAR CORP
Classification: Large Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 12/17/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported

REVERE SUGAR CORP BROOKLYN (Continued) **1000214648**

Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

FINDS:

Registry ID: 110001570639

Environmental Interest/Information System
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

AIRS (AFS):

Airs Minor Details:
EPA plant ID: 110001570639
Plant name: REVERE SUGAR CORP BROOKLYN
Plant address: 280 RICHARDS ST
BROOKLYN, NY 11231
County: KINGS
Region code: 02
Dunn & Bradst #: Not reported
Air quality cntrl region: 043
Sic code: 2062
Sic code desc: CANE SUGAR REFINING
North Am. industrial classf: 311312
NAIC code description: Cane Sugar Refining
Default compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Default classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Govt facility: ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT
Current HPV: Not reported

Historical Compliance Minor Sources:
State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS

REVERE SUGAR CORP BROOKLYN (Continued) **1000214648**

Hist compliance date: 1004
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1101
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1102
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1103
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1104
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1201
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1202
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1203
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1204
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1301
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1302
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1303
Air prog code hist file: SIP SOURCE

Compliance & Violation Data by Minor Sources:
Air program code: SIP SOURCE
Plant air program pollutant: TOTAL PARTICULATE MATTER
Default pollutant classification: CLASS IS UNKNOWN
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Def. attainment/non attnmnt: NON-ATTAINMENT FOR SECONDARY PT OR SO STANDARDS 2
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: SIP SOURCE

REVERE SUGAR CORP BROOKLYN (Continued) **1000214648**

Plant air program pollutant: VISIBLE EMISSIONS
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

H53 **REVERE SUGAR CORPORATION** **UST** **U003074317**
SSE **280 RICHARDS STREET** **HIST UST** **N/A**
1/8-1/4 **BROOKLYN, NY 11231** **AST**
0.133 mi. **HIST AST**
700 ft. **Site 4 of 4 in cluster H**

Relative:
Lower

Actual:
1 ft.

UST:
Id/Status: 2-080837 / Unregulated
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: 1997-01-14
UTM X: 583357.41802999994
UTM Y: 4503009.9068400003
Site Type: Other

Affiliation Records:
Site Id: 1650
Affiliation Type: Facility Owner
Company Name: REVERE SUGAR CORPORATION
Contact Type: Not reported
Contact Name: Not reported
Address1: 280 RICHARDS STREET
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11231
Country Code: 001
Phone: (718) 643-6565
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 1650
Affiliation Type: Mail Contact
Company Name: REVERE SUGAR CORPORATION
Contact Type: Not reported
Contact Name: Not reported
Address1: 280 RICHARDS STREET
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11231
Country Code: 001
Phone: (718) 643-6565
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

REVERE SUGAR CORPORATION (Continued) **U003074317**

Site Id: 1650
Affiliation Type: On-Site Operator
Company Name: REVERE SUGAR CORPORATION
Contact Type: Not reported
Contact Name: REVERE SUGAR CORPORATION
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 643-6565
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 1650
Affiliation Type: Emergency Contact
Company Name: REVERE SUGAR CORPORATION
Contact Type: Not reported
Contact Name: REVERE SUGAR CORPORATION
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 643-6565
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Tank Info:

Tank Number: 006
Tank ID: 2710
Tank Status: Temporarily Out of Service
Material Name: Temporarily Out of Service
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0000
Common Name of Substance: Empty

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

REVERE SUGAR CORPORATION (Continued) U003074317

I00 - Overfill - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
G00 - Tank Secondary Containment - None

Tank Number: 007
Tank ID: 2711
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 09/01/1992
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0000
Common Name of Substance: Empty

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
I00 - Overfill - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

Tank Number: 008
Tank ID: 2712
Tank Status: Closed - In Place
Material Name: Closed - In Place
Capacity Gallons: 550
Install Date: 09/01/1992
Date Tank Closed: 09/01/1992
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0000
Common Name of Substance: Empty

Tightness Test Method: NN

REVERE SUGAR CORPORATION (Continued) U003074317

Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
I00 - Overfill - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

HIST UST:
PBS Number: 2-080637
SPDES Number: Not reported
Emergency Contact: REVERE SUGAR CORPORATION
Emergency Telephone: (718) 643-6565
Operator: REVERE SUGAR CORPORATION
Operator Telephone: (718) 643-6565
Owner Name: REVERE SUGAR CORPORATION
Owner Address: 280 RICHARDS STREET
Owner City,St,Zip: BROOKLYN, NY 11231
Owner Telephone: (718) 643-6565
Owner Type: Corporate/Commercial
Owner Subtype: Not reported
Mailing Name: REVERE SUGAR CORPORATION
Mailing Address: 280 RICHARDS STREET
Mailing Address 2: Not reported
Mailing City,St,Zip: BROOKLYN, NY 11231
Mailing Contact: Not reported
Mailing Telephone: (718) 643-6565
Owner Mark: First Owner
Facility Status: 2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2: 280 RICHARDS STREET
SWIS ID: 6101
Old PBS Number: Not reported
Facility Type: OTHER
Inspected Date: Not reported
Inspector: Not reported
Inspection Result: Not reported
Federal ID: Not reported
Certification Flag: False
Certification Date: 01/30/1992
Expiration Date: 01/14/1997
Renew Flag: False
Renewal Date: Not reported
Total Capacity: 550
FAMT: True
Facility Screen: No Missing Data
Owner Screen: No Missing Data
Tank Screen: Minor Data Missing

REVERE SUGAR CORPORATION (Continued) U003074317

Dead Letter: False
CBS Number: Not reported
Town or City: NEW YORK CITY
County Code: 61
Town or City: 01
Region: 2

Tank Id: 006
Tank Location: UNDERGROUND
Tank Status: Temporarily Out Of Service
Install Date: Not reported
Capacity (gals): 550
Product Stored: EMPTY
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: STEEL/IRON
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Not reported
Dispenser: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 007
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: Not reported
Capacity (gals): 550
Product Stored: EMPTY
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: STEEL/IRON
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Not reported
Dispenser: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 09/01/1992
Test Method: Not reported
Deleted: False

REVERE SUGAR CORPORATION (Continued) U003074317

Updated: True
Lat/long: Not reported

AST:
Region: STATE
DEC Region: 2
Site Status: Unregulated
Facility Id: 2-080837
Program Type: PBS
UTM X: 583357.41802999994
UTM Y: 4503009.9068400003
Expiration Date: 1997-01-14
Site Type: Other

Affiliation Records:
Site Id: 1650
Affiliation Type: Facility Owner
Company Name: REVERE SUGAR CORPORATION
Contact Type: Not reported
Contact Name: Not reported
Address1: 280 RICHARDS STREET
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11231
Country Code: 001
Phone: (718) 643-6565
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 1650
Affiliation Type: Mail Contact
Company Name: REVERE SUGAR CORPORATION
Contact Type: Not reported
Contact Name: Not reported
Address1: 280 RICHARDS STREET
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11231
Country Code: 001
Phone: (718) 643-6565
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 1650
Affiliation Type: On-Site Operator
Company Name: REVERE SUGAR CORPORATION
Contact Type: Not reported
Contact Name: REVERE SUGAR CORPORATION
Address1: Not reported
Address2: Not reported
City: Not reported

REVERE SUGAR CORPORATION (Continued) U003074317

State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 643-6565
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	1650
Affiliation Type:	Emergency Contact
Company Name:	REVERE SUGAR CORPORATION
Contact Type:	Not reported
Contact Name:	REVERE SUGAR CORPORATION
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 643-6565
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank Id:	2708
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)

Equipment Records:

H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	20000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	09/01/1991
Register:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004

REVERE SUGAR CORPORATION (Continued) U003074317

Material Name:	#6 Fuel Oil (On-Site Consumption)

Tank Number:	002
Tank Id:	2709
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
G00 - Tank Secondary Containment - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	20000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	09/01/1991
Register:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Material Name:	#6 Fuel Oil (On-Site Consumption)

HIST AST:

PBS Number:	2-080837
SWIS Code:	6101
Operator:	REVERE SUGAR CORPORATION
Facility Phone:	(718) 643-6565
Facility Addr2:	280 RICHARDS STREET
Facility Type:	OTHER
Emergency:	REVERE SUGAR CORPORATION
Emergency Tel:	(718) 643-6565
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	REVERE SUGAR CORPORATION
Owner Address:	280 RICHARDS STREET
Owner City,St,Zip:	BROOKLYN, NY 11231
Federal ID:	Not reported
Owner Tel:	(718) 643-6565
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Contact:	Not reported
Mailing Name:	REVERE SUGAR CORPORATION
Mailing Address:	280 RICHARDS STREET

REVERE SUGAR CORPORATION (Continued) **U003074317**

Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11231
Mailing Telephone:	(718) 643-6565
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Certification Flag:	False
Certification Date:	01/30/1992
Expiration:	01/14/1997
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	550
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City Code:	01
Region:	2

Tank ID:	001
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (Gal):	20000
Product Stored:	NOS 5 OR 6 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	Not reported
Leak Detection:	0
Overfill Protection:	4
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	09/01/1991
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

Tank ID:	002
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (Gal):	20000
Product Stored:	NOS 5 OR 6 FUEL OIL

REVERE SUGAR CORPORATION (Continued) **U003074317**

Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	Not reported
Leak Detection:	0
Overfill Protection:	4
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	09/01/1991
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

54
NNW
1/8-1/4
0.153 mi.
808 ft.

C & L DESIGNS
173 COFFEY ST
BROOKLYN, NY 11231

RCRA NonGen / NLR **1000110518**
FINDS **NYD147377543**
MANIFEST

Relative:
Higher

Actual:
8 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	C & L DESIGNS
Facility address:	173 COFFEY ST BROOKLYN, NY 112311028
EPA ID:	NYD147377543
Mailing address:	COFFEY ST BROOKLYN, NY 11231
Contact:	Not reported
Contact address:	COFFEY ST BROOKLYN, NY 11231
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	NATHAN CHESS
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name: NATHAN CHESS

C & L DESIGNS (Continued) 1000110518

Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: C & L DESIGNS
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: C & L DESIGNS
Classification: Not a generator, verified

Date form received by agency: 10/06/1987
Facility name: C & L DESIGNS
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110004383649

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:
EPA ID: NYD147377543

C & L DESIGNS (Continued) 1000110518

Country: USA

Mailing Info:
Name: C & L DESIGNS
Contact: C & L DESIGNS
Address: 175 COFFEY STREET
City/State/Zip: BROOKLYN, NY 11231
Country: USA
Phone: 718-624-2405

Document ID: NJA9635938
Manifest Status: Completed copy
Trans1 State ID: NJSWAS300
Trans2 State ID: Not reported
Generator Ship Date: 890530
Trans1 Recv Date: 890530
Trans2 Recv Date: Not reported
TSD Site Recv Date: 890530
Part A Recv Date: 890608
Part B Recv Date: 890607
Generator EPA ID: NYD147377543
Trans1 EPA ID: NJD991291105
Trans2 EPA ID: Not reported
TSDF ID: NJD991291105
Waste Code: F003 - UNKNOWN
Quantity: 00055
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Year: 89

Document ID: NYA6400413
Manifest Status: Completed copy
Trans1 State ID: PLATE#
Trans2 State ID: 57745GB
Generator Ship Date: 871013
Trans1 Recv Date: 871013
Trans2 Recv Date: Not reported
TSD Site Recv Date: 871013
Part A Recv Date: 871021
Part B Recv Date: 871027
Generator EPA ID: NYD147377543
Trans1 EPA ID: NYD000824334
Trans2 EPA ID: Not reported
TSDF ID: NYD000824334
Waste Code: F003 - UNKNOWN
Quantity: 00055
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 87

C & L DESIGNS (Continued) **1000110518**

Document ID:	NJA0534832
Manifest Status:	Completed copy
Trans1 State ID:	NJSWAS300
Trans2 State ID:	Not reported
Generator Ship Date:	881123
Trans1 Recv Date:	881123
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	881123
Part A Recv Date:	881205
Part B Recv Date:	881202
Generator EPA ID:	NYD147377543
Trans1 EPA ID:	NJD991291105
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	F005 - UNKNOWN
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	8 Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	88

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55 NW 1/8-1/4 0.154 mi. 812 ft. **PLAYWRIGHTS HORIZONS SCENE SHOP** **RCRA NonGen / NLR 1001080146**
196 VANDYKE ST **FINDS NYR000018531**
BROOKLYN, NY 11231 **MANIFEST**

Relative: Higher

Actual: 8 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	PLAYWRIGHTS HORIZONS SCENE SHOP
Facility address:	196 VANDYKE ST BROOKLYN, NY 112311013
EPA ID:	NYR000018531
Mailing address:	W 42ND ST NEW YORK, NY 100366896
Contact:	Not reported
Contact address:	W 42ND ST NEW YORK, NY 100366896
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	PLAYWRIGHTS HORIZONS INC
Owner/operator address:	416 W 42ND ST NEW YORK, NY 10036
Owner/operator country:	US
Owner/operator telephone:	(212) 564-1235
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

PLAYWRIGHTS HORIZONS SCENE SHOP (Continued) **1001080146**

Owner/operator name:	PLAYWRIGHTS HORIZONS INC
Owner/operator address:	416 W 42ND ST NEW YORK, NY 10036
Owner/operator country:	US
Owner/operator telephone:	(212) 564-1235
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	01/01/2006
Facility name:	PLAYWRIGHTS HORIZONS SCENE SHOP
Classification:	Not a generator, verified
Date form received by agency:	07/08/1999
Facility name:	PLAYWRIGHTS HORIZONS SCENE SHOP
Classification:	Not a generator, verified
Date form received by agency:	01/17/1996
Facility name:	PLAYWRIGHTS HORIZONS SCENE SHOP
Classification:	Small Quantity Generator
Violation Status:	No violations found

FINDS:

Registry ID: 110004521768

Environmental Interest/Information System

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NY MANIFEST:

PLAYWRIGHTS HORIZONS SCENE SHOP (Continued) 1001080146

EPA ID: NYR000018531
Country: USA

Mailing Info:
Name: PLAYWRIGHTS HORIZONS SCENE SHOP
Contact: FREDERIC TIETZ
Address: 416 W 42ND STREET
City/State/Zip: NEW YORK, NY 10036
Country: USA
Phone: 718-797-1196

Document ID: NYB7438428
Manifest Status: Completed copy
Trans1 State ID: PD9938
Trans2 State ID: Not reported
Generator Ship Date: 960124
Trans1 Recv Date: 960124
Trans2 Recv Date: Not reported
TSD Site Recv Date: 960126
Part A Recv Date: 960202
Part B Recv Date: 960205
Generator EPA ID: NYR000018531
Trans1 EPA ID: NYD082785429
Trans2 EPA ID: Not reported
TSDF ID: NYD082785429
Waste Code: D003 - NON-LISTED REACTIVE WASTES
Quantity: 00050
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 004
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 124
Waste Code: Not reported
Quantity: 00600
Units: P - Pounds
Number of Containers: 005
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Year: 96

56
ESE **69 VAN DYKE ST** EDR US Hist Auto Stat 1015601054
1/8-1/4 **BROOKLYN, NY 11231** N/A
0.162 mi.
857 ft.

Relative: EDR Historical Auto Stations:
Lower Name: M & L AUTO REPAIR LTD
Year: 2012
Actual: Address: 69 VAN DYKE ST
4 ft.

I57
North **161 DIKEMAN ST** EDR US Hist Auto Stat 1015254520
1/8-1/4 **BROOKLYN, NY 11231** N/A
0.164 mi.
867 ft. **Site 1 of 2 in cluster I**

Relative: EDR Historical Auto Stations:
Higher Name: HARBOR SIDE TRUCK REPAIR INCORPORATED
Year: 1999
Actual: Address: 161 DIKEMAN ST
8 ft.

Name: HARBOR SIDE TRUCK REPAIR INCORPORATED
Year: 2000
Address: 161 DIKEMAN ST

Name: HARBOR SIDE TRUCK REPAIR INC
Year: 2001
Address: 161 DIKEMAN ST

Name: HARBOR SIDE TRUCK REPAIR INC
Year: 2002
Address: 161 DIKEMAN ST

Name: HARBOR SIDE TRUCK REPAIR INC
Year: 2003
Address: 161 DIKEMAN ST

Name: HARBOR SIDE TRUCK REPAIR INC
Year: 2004
Address: 161 DIKEMAN ST

Name: HARBOR SIDE TRUCK REPAIR INC
Year: 2005
Address: 161 DIKEMAN ST

Name: HARBOR SIDE TRUCK REPAIR INC
Year: 2006
Address: 161 DIKEMAN ST

I58 **P. MARCKESANO & SONS CO INC** RCRA NonGen / NLR 1000296015
North **161 DIKEMAN ST** FINDS NYD982269672
1/8-1/4 **BROOKLYN, NY**
0.164 mi.
867 ft. **Site 2 of 2 in cluster I**

Relative: RCRA NonGen / NLR:
Higher Date form received by agency: 01/01/2007
Facility name: P. MARCKESANO & SONS CO INC
Actual: Facility address: 161 DIKEMAN ST
8 ft. BROOKLYN, NY 112311105
EPA ID: NYD982269672
Mailing address: FERRIS ST
BROOKLYN, NY 11231
Contact: Not reported
Contact address: FERRIS ST
BROOKLYN, NY 11231
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02

P. MARCKESANO & SONS CO INC (Continued) **1000296015**

Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: MARCKESANO & JOHN
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: MARCKESANO & JOHN
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: P. MARCKESANO & SONS CO INC
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: P. MARCKESANO & SONS CO INC
Classification: Not a generator, verified

Date form received by agency: 06/18/1987
Facility name: P. MARCKESANO & SONS CO INC
Classification: Large Quantity Generator

Violation Status: No violations found

P. MARCKESANO & SONS CO INC (Continued) **1000296015**

Evaluation Action Summary:
Evaluation date: 07/22/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

FINDS:

Registry ID: 110004416971

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

J59 **CON EDISON** **MANIFEST** **S113494415**
NE **WOLCOTT ST AND VAN BRUNT ST** **N/A**
1/8-1/4 **BROOKLYN, NY 11201**
0.172 mi.
910 ft. **Site 1 of 3 in cluster J**

Relative:
Higher

Actual:
10 ft.

NY MANIFEST:
EPA ID: NYP000292876
Country: USA

Mailing Info:
Name: CON EDISON
Contact: TOM TEELING
Address: 4 IRVING PLACE 15TH FLOOR
City/State/Zip: NEW YORK, NY 10003
Country: USA
Phone: 212-460-3770

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NJD003812047
Trans2 State ID: Not reported
Generator Ship Date: 2013-03-12
Trans1 Recv Date: 2013-03-12
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2013-03-14
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP000292876
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NJD991291105
Waste Code: Not reported
Quantity: 250
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 1
Container Type: TT - Cargo tank, tank trucks

CON EDISON (Continued) S113494415

Handling Method:	T Chemical, physical, or biological treatment
Specific Gravity:	1
Year:	2013
Manifest Tracking Num:	002016615GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

J60
NE
1/8-1/4
0.173 mi.
912 ft.

CON EDISON MANHOLE: 43651
WALLCOTT ST & VAN BRUNT ST
BROOKLYN, NY 11231

RCRA NonGen / NLR — 1016450263, NYP004292876

Site 2 of 3 in cluster J

Relative:
Higher

Actual:
9 ft.

RCRA NonGen / NLR:

Date form received by agency:	04/12/2013
Facility name:	CON EDISON MANHOLE: 43651
Facility address:	WALLCOTT ST & VAN BRUNT ST BROOKLYN, NY 11231
EPA ID:	NYP004292876
Contact:	ANTHONY SIGNORE
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(718) 802-3008
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:
Date form received by agency: 03/12/2013

CON EDISON MANHOLE: 43651 (Continued) 1016450263

Facility name:	CON EDISON MANHOLE: 43651
Classification:	Conditionally Exempt Small Quantity Generator
Violation Status:	No violations found

J61
NE
1/8-1/4
0.176 mi.
929 ft.

87 WOLCOTT ST
BROOKLYN, NY 11231

EDR US Hist Auto Stat — 1015659852, N/A

Site 3 of 3 in cluster J

Relative:
Higher

Actual:
9 ft.

EDR Historical Auto Stations:

Name:	AUTO PROFESSOR INC
Year:	2002
Address:	87 WOLCOTT ST
Name:	AUTO PROFFESSOR INC
Year:	2005
Address:	87 WOLCOTT ST

K62
NNE
1/8-1/4
0.195 mi.
1030 ft.

CONOVER TRANSFER STATION
143-47 WALCOTT ST
BROOKLYN, NY 11231

SWF/LF — S105841711, N/A

Site 1 of 3 in cluster K

Relative:
Higher

Actual:
9 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	7185964040
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	CARL BIVONA; OWNER
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - permit
Activity Number:	[24178]
Active:	No
East Coordinate:	583200
North Coordinate:	4503600
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6102-00008
Authorization Date:	Not reported
Expiration Date:	Not reported

L63
NNW
1/8-1/4
0.195 mi.
1031 ft.

KINGS COUNTY CONCRETE CO.
206 COFFEE ST.
BROOKLYN, NY 11231

Site 1 of 2 in cluster L

CBS AST **S102143005**
NY Spills **N/A**
CBS

Relative:
Higher

Actual:
10 ft.

CBS AST:

CBS Number:	2-000179
ICS Number:	2-700746
PBS Number:	Not reported
MOSF Number:	Not reported
SPDES Number:	Not reported
Facility Status:	IN SERVICE
Facility Type:	D
Telephone:	(718) 797-0390
Facility Town:	NEW YORK CITY
Region:	STATE
Expiration Date:	09/22/1993
Total Capacity of All Active Tanks(gal):	0
Operator:	ANTHONY VALENTE
Emergency Contact:	SIL SANTANGELO
Emergency Phone:	(201) 933-8800
Owner Name:	SIKA CORPORATION
Owner Address:	201 POLITO AVE.
Owner City,St,Zip:	LYNDHURST, NJ 07071
Owner Telephone:	(201) 933-8800
Owner Type:	Corporate/Commercial
Owner Sub Type:	Not reported
Mail Name:	SIKA CORPORATION
Mail Contact Addr:	201 POLITO AVE.
Mail Contact Addr2:	Not reported
Mail Contact Contact:	SIL SANTANGELO
Mail Contact City,St,Zip:	LYNDHURST, NJ 07071
Mail Phone:	(201) 933-8800

Tank Id:	09311
CAS Number:	1310732
Federal ID:	Not reported
Tank Status:	0
Install Date:	10/85
Tank Closed:	00/00
Capacity (Gal):	1000
Chemical:	Sodium hydroxide
Tank Location:	Indoors, Aboveground
Tank Type:	Fiberglass reinforced plastic [FRP]
Total Tanks:	0
Tank Secret:	False
Tank Secondary Containment:	None
Tank Error Status:	No Missing Data
Date Entered:	09/22/1989
Certified Date:	11/19/1991
Substance:	Single Hazardous Substance on DEC List
Internal Protection:	None
External Protection:	None
Pipe Location:	Aboveground
Pipe Type:	Unknown
Pipe Internal:	None
Pipe External:	None
Pipe Flag:	None

KINGS COUNTY CONCRETE CO. (Continued) **S102143005**

Leak Detection:	None
Overfill Protection:	None
Haz Percent:	2
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	06/07/93
Is It There:	False
Delinquent:	False
Date Expired:	09/22/93
Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	06/07/1993

Tank Id:	09333
CAS Number:	1310732
Federal ID:	Not reported
Tank Status:	0
Install Date:	04/87
Tank Closed:	00/00
Capacity (Gal):	1000
Chemical:	Sodium hydroxide
Tank Location:	Indoors, Aboveground
Tank Type:	Fiberglass reinforced plastic [FRP]
Total Tanks:	0
Tank Secret:	False
Tank Secondary Containment:	None
Tank Error Status:	No Missing Data
Date Entered:	09/22/1989
Certified Date:	11/19/1991
Substance:	Single Hazardous Substance on DEC List
Internal Protection:	None
External Protection:	None
Pipe Location:	Aboveground
Pipe Type:	Unknown
Pipe Internal:	None
Pipe External:	None
Pipe Flag:	None
Leak Detection:	None
Overfill Protection:	None
Haz Percent:	1
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	06/07/93
Is It There:	False
Delinquent:	False
Date Expired:	09/22/93
Owner Mark:	1
Certificate Needs to be Printed:	False

KINGS COUNTY CONCRETE CO. (Continued) **S102143005**

Fiscal Amt for Registration Fee Correct: True
Renewal Has Been Printed for Facility: True
Pre-Printed Renewal App Last Printed: 06/07/1993

Tank Id:	09312
CAS Number:	1310732
Federal ID:	Not reported
Tank Status:	0
Install Date:	04/87
Tank Closed:	00/00
Capacity (Gal):	1000
Chemical:	Sodium hydroxide
Tank Location:	Indoors, Aboveground
Tank Type:	Fiberglass reinforced plastic [FRP]
Total Tanks:	0
Tank Secret:	False
Tank Secondary Containment:	None
Tank Error Status:	No Missing Data
Date Entered:	09/22/1989
Certified Date:	11/19/1991
Substance:	Single Hazardous Substance on DEC List
Internal Protection:	None
External Protection:	None
Pipe Location:	Aboveground
Pipe Type:	Unknown
Pipe Internal:	None
Pipe External:	None
Pipe Flag:	None
Leak Detection:	None
Overfill Protection:	None
Haz Percent:	2
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	06/07/93
Is It There:	False
Delinquent:	False
Date Expired:	09/22/93
Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	06/07/1993

SPILLS:

Facility ID:	8503896
Facility Type:	ER
DER Facility ID:	151313
Site ID:	180406
DEC Region:	2
Spill Date:	2/5/1986
Spill Number/Closed Date:	8503896 / 2/6/1986
Spill Cause:	Equipment Failure
Spill Class:	Possible release with minimal potential for fire or hazard or Known

KINGS COUNTY CONCRETE CO. (Continued) **S102143005**

release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.

SWIS:	2401
Investigator:	SMITH
Referred To:	Not reported
Reported to Dept:	2/5/1986
CID:	Not reported
Water Affected:	BUTTERMILK CHANNEL
Spill Source:	Tank Truck
Spill Notifier:	Federal Government
Cleanup Ceased:	2/6/1986
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered in Computer:	5/18/1992
Spill Record Last Update:	8/4/1995
Spiller Name:	Not reported
Spiller Company:	KINGS COUNTY CONCRETE
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	DEC CONTACTED OWNER MR. VALENTI. HE STATES HE WILL REMOVE ALL OIL CONTAMINATED SAND AND OIL ON 2-6-86

Material:

Site ID:	180406
Operable Unit ID:	897366
Operable Unit:	01
Material ID:	479773
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	300
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

CBS:

CBS Number:	2-000179
Program Type:	CBS
Facility Status:	Unregulated
Expiration Date:	09/22/1993
Dec Region:	2
UTMX:	478536.81637000
UTMY:	4916475.2856700

L64 NNW 1/8-1/4 0.197 mi. 1039 ft. **202 COFFEY STREET ASSOCIATES**
202 COFFEY STREET
BROOKLYN, NY 11231

UST U000402471
N/A

Site 2 of 2 in cluster L

Relative: Higher

Actual: 10 ft.

UST:

Id/Status:	2-286133 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	2017-07-20
UTM X:	583099.73176
UTM Y:	4503469.7690099999
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	12750
Affiliation Type:	Mail Contact
Company Name:	TIME MOVING & STORAGE
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	628 WEST 45TH STREET
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10036
Country Code:	001
Phone:	(718) 855-1700
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	12750
Affiliation Type:	On-Site Operator
Company Name:	202 COFFEY STREET ASSOCIATES
Contact Type:	Not reported
Contact Name:	TIME MOVERS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NY
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 643-0822
EMail:	Not reported
Fax Number:	Not reported
Modified By:	ANAUSTIN
Date Last Modified:	9/22/2005

Site Id:	12750
Affiliation Type:	Emergency Contact
Company Name:	J. KEVIN GILGAN & JOSEPH P. CANDELLA
Contact Type:	Not reported
Contact Name:	J. KEVIN GILGAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN

202 COFFEY STREET ASSOCIATES (Continued) U000402471

Zip Code:	Not reported
Country Code:	999
Phone:	(718) 855-1700
EMail:	Not reported
Fax Number:	Not reported
Modified By:	ANAUSTIN
Date Last Modified:	9/22/2005

Site Id:	12750
Affiliation Type:	Facility Owner
Company Name:	J. KEVIN GILGAN & JOSEPH P. CANDELLA
Contact Type:	CONTROLLER
Contact Name:	TERANCE WILLIAMS
Address1:	202 COFFEY ST
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11231
Country Code:	001
Phone:	(718) 855-1700
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMMOLOUG
Date Last Modified:	9/10/2012

Tank Info:

Tank Number:	001
Tank ID:	17662
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	8000
Install Date:	12/01/1979
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0002
Common Name of Substance:	#4 Fuel Oil (On-Site Consumption)

Tightness Test Method:	21
Date Test:	07/16/2012
Next Test Date:	07/16/2017
Pipe Model:	Not reported
Modified By:	BKFALVEY
Last Modified:	08/06/2012

Equipment Records:

C03 - Pipe Location - Aboveground/Underground Combination
F01 - Pipe External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
B01 - Tank External Protection - Painted/Asphalt Coating
G00 - Tank Secondary Containment - None
I05 - Overfill - Vent Whistle
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser

202 COFFEY STREET ASSOCIATES (Continued) U000402471

L09 - Piping Leak Detection - Exempt Suction Piping

K65 NNE 1/8-1/4 0.198 mi. 1044 ft. **CUPIE TRANSPORTATION CORP.**
145-147 WOLCOTT STREET
BROOKLYN, NY 11231

HIST UST U003074931
AST N/A
HIST AST

Site 2 of 3 in cluster K

Relative: Higher

Actual: 9 ft.

HIST UST:

PBS Number:	2-600048
SPDES Number:	Not reported
Emergency Contact:	GREG IOVINE
Emergency Telephone:	(718) 855-6050
Operator:	GREG IOVINE
Operator Telephone:	(718) 855-6050
Owner Name:	CUPIE TRANSPORTATION CORP.
Owner Address:	145-147 WOLCOTT STREET
Owner City,St,Zip:	BROOKLYN, NY 11231
Owner Telephone:	(718) 855-6050
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	CUPIE TRANSPORTATION CORP.
Mailing Address:	145-147 WOLCOTT STREET
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11231
Mailing Contact:	MR. GREG IOVINE
Mailing Telephone:	(718) 855-6050
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	145 WOLCOTT STREET
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	TRUCKING/TRANSPORTATION
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	04/02/2001
Expiration Date:	04/08/2006
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	8975
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2
Tank Id:	001
Tank Location:	UNDERGROUND

CUPIE TRANSPORTATION CORP. (Continued) U003074931

Tank Status:	Temporarily Out Of Service
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Vent Whistle
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported
Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	Temporarily Out Of Service
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Vent Whistle
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported
Tank Id:	003
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (gals):	6000

CUPIE TRANSPORTATION CORP. (Continued) U003074931

Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	Other
Leak Detection:	Other
Overfill Prot:	Vent Whistle
Dispenser:	Suction
Date Tested:	11/04/1999
Next Test Date:	11/04/2004
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	004
Tank Location:	UNDERGROUND
Tank Status:	Temporarily Out Of Service
Install Date:	Not reported
Capacity (gals):	500
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Vent Whistle
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	005
Tank Location:	UNDERGROUND
Tank Status:	Temporarily Out Of Service
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None

CUPIE TRANSPORTATION CORP. (Continued) U003074931

Tank External:	None
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Vent Whistle
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	006
Tank Location:	UNDERGROUND
Tank Status:	Temporarily Out Of Service
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Vent Whistle
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated
Facility Id:	2-600048
Program Type:	PBS
UTM X:	583300.53348999994
UTM Y:	4503498.9708700003
Expiration Date:	2006-04-08
Site Type:	Trucking/Transportation/Fleet Operation

Affiliation Records:

CUPIE TRANSPORTATION CORP. (Continued) U003074931

Site Id:	22036
Affiliation Type:	Facility Owner
Company Name:	CUPIE BUS
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	165 WOLCOTT STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11231
Country Code:	001
Phone:	(718) 855-6050
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	22036
Affiliation Type:	Mail Contact
Company Name:	CUPIE BUS
Contact Type:	Not reported
Contact Name:	LARRY GIUNTA
Address1:	165 WOLCOTT STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11231
Country Code:	001
Phone:	(718) 855-6050
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	22036
Affiliation Type:	On-Site Operator
Company Name:	CUPIE BUS
Contact Type:	Not reported
Contact Name:	LARRY GIUNTA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 855-6050
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	22036
Affiliation Type:	Emergency Contact
Company Name:	CUPIE BUS
Contact Type:	Not reported
Contact Name:	LARRY GIUNTA
Address1:	Not reported

CUPIE TRANSPORTATION CORP. (Continued) U003074931

Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 855-6050
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	007
Tank Id:	41673
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
I00 - Overfill - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Tank Converted to Non-Regulated Use
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	08/01/1996
Register:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Material Name:	#2 Fuel Oil (On-Site Consumption)

Tank Number:	008
Tank Id:	51665
Material Code:	0012
Common Name of Substance:	Kerosene [#1 Fuel Oil] (On-Site Consumption)

Equipment Records:

D00 - Pipe Type - No Piping
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None

CUPIE TRANSPORTATION CORP. (Continued) **U003074931**

J00 - Dispenser - None
I00 - Overfill - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	10/01/1995
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Material Name:	Kerosene [#1 Fuel Oil] (On-Site Consumption)

HIST AST:

PBS Number:	2-600048
SWIS Code:	6101
Operator:	GREG IOVINE
Facility Phone:	(718) 855-6050
Facility Addr2:	145 WOLCOTT STREET
Facility Type:	TRUCKING/TRANSPORTATION
Emergency:	GREG IOVINE
Emergency Tel:	(718) 855-6050
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	CUPIE TRANSPORTATION CORP.
Owner Address:	145-147 WOLCOTT STREET
Owner City,St,Zip:	BROOKLYN, NY 11231
Federal ID:	Not reported
Owner Tel:	(718) 855-6050
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Contact:	MR. GREG IOVINE
Mailing Name:	CUPIE TRANSPORTATION CORP.
Mailing Address:	145-147 WOLCOTT STREET
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11231
Mailing Telephone:	(718) 855-6050
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	04/02/2001
Expiration:	04/08/2006
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	8975
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	Minor Data Missing

CUPIE TRANSPORTATION CORP. (Continued) **U003074931**

Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City Code:	01
Region:	2
Tank ID:	007
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	Tank Converted To Non-Regulated Use
Install Date:	Not reported
Capacity (Gal):	275
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	00
Pipe Location:	None
Pipe Type:	NONE
Pipe Internal:	None
Pipe External:	00
Tank Containment:	None
Leak Detection:	00
Overfill Protection:	00
Dispenser Method:	0
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	08/01/1996
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

K66 **PERFECT BODIES AUTO COLLISION** **RCRA NonGen / NLR** **1004763070**
NNE **145-165 WOLCOTT ST** **FINDS** **NYR000103309**
1/8-1/4 **BROOKLYN, NY** **MANIFEST**
0.198 mi.
1044 ft. **Site 3 of 3 in cluster K**

Relative:
Higher

Actual:
9 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	PERFECT BODIES AUTO COLLISION
Facility address:	145-165 WOLCOTT ST BROOKLYN, NY 11231
EPA ID:	NYR000103309
Mailing address:	WOLCOTT ST BROOKLYN, NY 11231
Contact:	GREG IOVINE
Contact address:	WOLCOTT ST BROOKLYN, NY 11231
Contact country:	US
Contact telephone:	(718) 534-0300
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

PERFECT BODIES AUTO COLLISION (Continued) 1004763070

Owner/Operator Summary:

Owner/operator name:	GREGORY IOVINE
Owner/operator address:	145-165 WOLCOTT ST BROOKLYN, NY 11231
Owner/operator country:	US
Owner/operator telephone:	(718) 534-0300
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/2001
Owner/Op end date:	Not reported

Owner/operator name:	GREGORY IOVINE
Owner/operator address:	145-165 WOLCOTT ST BROOKLYN, NY 11231
Owner/operator country:	US
Owner/operator telephone:	(718) 534-0300
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	01/01/2001
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency: 01/01/2006
Facility name: PERFECT BODIES AUTO COLLISION
Classification: Not a generator, verified

Date form received by agency: 01/11/2002
Facility name: PERFECT BODIES AUTO COLLISION
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110012193072

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of

PERFECT BODIES AUTO COLLISION (Continued) 1004763070

events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:

EPA ID:	NYR000103309
Country:	USA

Mailing Info:

Name:	PERFECT BODY
Contact:	JOSEPH A GOTTI
Address:	145-165 WOL COTT ST
City/State/Zip:	BROOKLYN, NY 11231
Country:	USA
Phone:	718-534-0300

Document ID:	NYG3194883
Manifest Status:	Not reported
Trans1 State ID:	NYD077444263
Trans2 State ID:	Not reported
Generator Ship Date:	01/18/2002
Trans1 Recv Date:	01/18/2002
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/23/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000103309
Trans1 EPA ID:	NYD077444263
Trans2 EPA ID:	Not reported
TSDF ID:	PD1011NY
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00075
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2002

Document ID:	NYG3495816
Manifest Status:	Not reported
Trans1 State ID:	NYD077444263
Trans2 State ID:	Not reported
Generator Ship Date:	10/28/2002
Trans1 Recv Date:	10/28/2002
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/29/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000103309
Trans1 EPA ID:	NYD077444263
Trans2 EPA ID:	Not reported
TSDF ID:	40578PANY

PERFECT BODIES AUTO COLLISION (Continued) **1004763070**

Waste Code:	F003 - UNKNOWN
Quantity:	00040
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2002

67
NW
1/8-1/4
0.203 mi.
1072 ft.

KINGS COUNTY CONCRETE
CROPSEY AVE.
BROOKLYN, NY 11244

CBS AST **S102639418**
CBS **N/A**

Relative:
Higher

Actual:
9 ft.

CBS AST:

CBS Number:	2-000184
ICS Number:	2-700745
PBS Number:	Not reported
MOSF Number:	Not reported
SPDES Number:	Not reported
Facility Status:	IN SERVICE
Facility Type:	D
Telephone:	(718) 373-2000
Facility Town:	NEW YORK CITY
Region:	STATE
Expiration Date:	09/22/1995
Total Capacity of All Active Tanks(gal):	0
Operator:	ANTHONY VALENTE
Emergency Contact:	STEVEN ROSENBERG
Emergency Phone:	(201) 933-8800
Owner Name:	SIKA CORPORATION
Owner Address:	201 POLITO AVE.
Owner City,St,Zip:	LYNDHURST, NJ 07071
Owner Telephone:	(201) 933-8800
Owner Type:	Corporate/Commercial
Owner Sub Type:	Not reported
Mail Name:	SIKA CORPORATION
Mail Contact Addr:	201 POLITO AVE.
Mail Contact Addr2:	Not reported
Mail Contact Contact:	STEVEN ROSENBERG
Mail Contact City,St,Zip:	LYNDHURST, NJ 07071
Mail Phone:	(201) 933-8800
Tank Id:	09314
CAS Number:	1310732
Federal ID:	Not reported
Tank Status:	0
Install Date:	10/88
Tank Closed:	00/00
Capacity (Gal):	1000
Chemical:	Sodium hydroxide
Tank Location:	Indoors, Aboveground
Tank Type:	Fiberglass reinforced plastic [FRP]
Total Tanks:	0
Tank Secret:	False
Tank Secondary Containment:	None
Tank Error Status:	No Missing Data

KINGS COUNTY CONCRETE (Continued) **S102639418**

Date Entered:	09/22/1989
Certified Date:	07/29/1993
Substance:	Single Hazardous Substance on DEC List
Internal Protection:	None
External Protection:	None
Pipe Location:	Aboveground
Pipe Type:	Unknown
Pipe Internal:	None
Pipe External:	None
Pipe Flag:	None
Leak Detection:	None
Overfill Protection:	None
Haz Percent:	2
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	06/07/93
Is It There:	False
Delinquent:	False
Date Expired:	09/22/95
Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	06/01/1995

CBS:

CBS Number:	2-000184
Program Type:	CBS
Facility Status:	Unregulated
Expiration Date:	09/22/1995
Dec Region:	2
UTMX:	585834.79492999
UTMY:	4492802.4500599

M68
SE
1/8-1/4
0.207 mi.
1092 ft.

47 VAN DYKE ST
BROOKLYN, NY 11231

EDR US Hist Auto Stat **1015510011**
N/A

Site 1 of 2 in cluster M

Relative:
Lower

Actual:
3 ft.

EDR Historical Auto Stations:

Name:	G & F AUTO COLLISION INC
Year:	2002
Address:	47 VAN DYKE ST
Name:	G & F AUTO COLLISION
Year:	2003
Address:	47 VAN DYKE ST
Name:	G & F AUTO COLLISION
Year:	2006
Address:	47 VAN DYKE ST
Name:	G & F AUTO COLLISION

(Continued) 1015510011

Year: 2010
Address: 47 VAN DYKE ST

Name: G & F AUTO COLLISION
Year: 2011
Address: 47 VAN DYKE ST

Name: G & F AUTO COLLISION
Year: 2012
Address: 47 VAN DYKE ST

N69 ESE 1/8-1/4 0.212 mi. 1118 ft. — **FISCHER MARINE REPAIR CORP**, **38 COFFEY ST**, **BROOKLYN, NY 11231** — RCRA NonGen / NLR 1001113338, FINDS NYR000023283

Site 1 of 4 in cluster N

Relative: Lower
Actual: 6 ft.

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: FISCHER MARINE REPAIR CORP
Facility address: 38 COFFEY ST
BROOKLYN, NY 112311510
EPA ID: NYR000023283
Mailing address: PO BOX 1517
PERTH AMBOY, NY 08862
Contact: Not reported
Contact address: PO BOX 1517
PERTH AMBOY, NY 08862
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: RICHARD STRYPE
Owner/operator address: 352 8TH ST
STATEN ISLAND, NY 10306
Owner/operator country: US
Owner/operator telephone: (718) 492-3583
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: RICHARD STRYPE
Owner/operator address: 352 8TH ST
STATEN ISLAND, NY 10306
Owner/operator country: US
Owner/operator telephone: (718) 492-3583
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

FISCHER MARINE REPAIR CORP (Continued) 1001113338

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: FISCHER MARINE REPAIR CORP
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: FISCHER MARINE REPAIR CORP
Classification: Not a generator, verified

Date form received by agency: 05/02/1996
Facility name: FISCHER MARINE REPAIR CORP
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110004524523

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

N70 ESE 1/8-1/4 0.221 mi. 1165 ft. — **BARGE AUTO BODY INC**, **34 COFFEY ST**, **BROOKLYN, NY 11231** — RCRA-CESQG 1000693639, FINDS NYD986997047, MANIFEST

Site 2 of 4 in cluster N

Relative: Lower
Actual: 6 ft.

RCRA-CESQG:
Date form received by agency: 01/01/2007
Facility name: BARGE AUTO BODY INC
Facility address: 34 COFFEY ST
BROOKLYN, NY 11231
EPA ID: NYD986997047

BARGE AUTO BODY INC (Continued) 1000693639

Mailing address: COFFEY ST
BROOKLYN, NY 11231
Contact: DAMIAN LUBRANO
Contact address: COFFEY ST
BROOKLYN, NY 11231
Contact country: US
Contact telephone: (718) 237-1733
Contact email: Not reported
EPA Region: 02
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: DAMIAN LUBRANO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, NY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: DAMIAN LUBRANO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, NY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No

BARGE AUTO BODY INC (Continued) 1000693639

Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: BARGE AUTO BODY INC
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 03/27/1992
Facility name: BARGE AUTO BODY INC
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110004487939

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

NY MANIFEST:
EPA ID: NYD986997047
Country: USA

Mailing Info:
Name: BARGE AUTO BODY INC
Contact: DAMIAN LUBRANO
Address: 34 COFFEE STREET
City/State/Zip: BROOKLYN, NY 11231
Country: USA
Phone: 718-237-1733

Document ID: NJA2103518
Manifest Status: Completed copy
Trans1 State ID: 10339
Trans2 State ID: Not reported
Generator Ship Date: 950329
Trans1 Recv Date: 950329
Trans2 Recv Date: Not reported
TSD Site Recv Date: 950330
Part A Recv Date: 950410

BARGE AUTO BODY INC (Continued) 1000693639

Part B Recv Date:	950406
Generator EPA ID:	NYD986997047
Trans1 EPA ID:	NJD986608941
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002454544
Waste Code:	F003 - UNKNOWN
Quantity:	00090
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	95

Document ID:	NJA2953665
Manifest Status:	Not reported
Trans1 State ID:	NJD986608941
Trans2 State ID:	Not reported
Generator Ship Date:	04/21/1998
Trans1 Recv Date:	04/21/1998
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/23/1998
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986997047
Trans1 EPA ID:	NJD002454544
Trans2 EPA ID:	Not reported
TSDF ID:	10339
Waste Code:	F003 - UNKNOWN
Quantity:	00110
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	01.00
Year:	98

Document ID:	ILA8991555
Manifest Status:	Not reported
Trans1 State ID:	SCR000075150
Trans2 State ID:	SCR000074591
Generator Ship Date:	07/06/2001
Trans1 Recv Date:	07/06/2001
Trans2 Recv Date:	07/15/2001
TSD Site Recv Date:	07/16/2001
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986997047
Trans1 EPA ID:	ILD980613913
Trans2 EPA ID:	Not reported
TSDF ID:	UPW151288
Waste Code:	F005 - UNKNOWN
Quantity:	00792
Units:	P - Pounds
Number of Containers:	002

BARGE AUTO BODY INC (Continued) 1000693639

Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2001

Document ID:	NJA1472035
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NJDEPS103
Trans2 State ID:	Not reported
Generator Ship Date:	920505
Trans1 Recv Date:	920505
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	920506
Part A Recv Date:	Not reported
Part B Recv Date:	920601
Generator EPA ID:	NYD986997047
Trans1 EPA ID:	NJD986608941
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002454544
Waste Code:	F003 - UNKNOWN
Quantity:	00075
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	92

Document ID:	NJA3038912
Manifest Status:	Not reported
Trans1 State ID:	NJD986608941
Trans2 State ID:	Not reported
Generator Ship Date:	04/20/1999
Trans1 Recv Date:	04/20/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/21/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986997047
Trans1 EPA ID:	NJD002454544
Trans2 EPA ID:	Not reported
TSDF ID:	10339
Waste Code:	F005 - UNKNOWN
Quantity:	00110
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	01.00
Year:	99

Document ID:	ILA8963098
Manifest Status:	Not reported
Trans1 State ID:	SCR000075150

BARGE AUTO BODY INC (Continued) 1000693639

Trans2 State ID:	Not reported
Generator Ship Date:	01/21/2002
Trans1 Recv Date:	01/21/2002
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/28/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986997047
Trans1 EPA ID:	ILD980613913
Trans2 EPA ID:	Not reported
TSDF ID:	UPW151288
Waste Code:	F005 - UNKNOWN
Quantity:	00112
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2002

Document ID:	ILA9094714
Manifest Status:	Not reported
Trans1 State ID:	SCR000075150
Trans2 State ID:	Not reported
Generator Ship Date:	03/01/2002
Trans1 Recv Date:	03/01/2002
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/11/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986997047
Trans1 EPA ID:	ILD980613913
Trans2 EPA ID:	Not reported
TSDF ID:	UPW151288
Waste Code:	F005 - UNKNOWN
Quantity:	00112
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2002

Document ID:	NJA1557273
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPS103
Trans2 State ID:	Not reported
Generator Ship Date:	930301
Trans1 Recv Date:	930301
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930302
Part A Recv Date:	930319
Part B Recv Date:	930312
Generator EPA ID:	NYD986997047
Trans1 EPA ID:	NJD986608941

BARGE AUTO BODY INC (Continued) 1000693639

Trans2 EPA ID:	Not reported
TSDF ID:	NJD002454544
Waste Code:	F003 - UNKNOWN
Quantity:	00040
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	93

Document ID:	NJA1769562
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPS103
Trans2 State ID:	Not reported
Generator Ship Date:	930923
Trans1 Recv Date:	930923
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930923
Part A Recv Date:	Not reported
Part B Recv Date:	931007
Generator EPA ID:	NYD986997047
Trans1 EPA ID:	NJD986608941
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002454544
Waste Code:	F003 - UNKNOWN
Quantity:	00070
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material
Specific Gravity:	100
Year:	93

Document ID:	NJA1886116
Manifest Status:	Completed copy
Trans1 State ID:	10339
Trans2 State ID:	Not reported
Generator Ship Date:	940328
Trans1 Recv Date:	940328
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	940331
Part A Recv Date:	940412
Part B Recv Date:	940412
Generator EPA ID:	NYD986997047
Trans1 EPA ID:	NJD986608941
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002454544
Waste Code:	F003 - UNKNOWN
Quantity:	00100
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100

BARGE AUTO BODY INC (Continued) 1000693639

Year: 94

Document ID: NJA2717972
Manifest Status: Completed copy
Trans1 State ID: 10339
Trans2 State ID: Not reported
Generator Ship Date: 961113
Trans1 Recv Date: 961113
Trans2 Recv Date: Not reported
TSD Site Recv Date: 961114
Part A Recv Date: Not reported
Part B Recv Date: 961205
Generator EPA ID: NYD986997047
Trans1 EPA ID: NJD986608941
Trans2 EPA ID: Not reported
TSDF ID: NJD002454544
Waste Code: F003 - UNKNOWN
Quantity: 00075
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 96

Document ID: NJA2745011
Manifest Status: Completed copy
Trans1 State ID: 10339
Trans2 State ID: Not reported
Generator Ship Date: 970326
Trans1 Recv Date: 970326
Trans2 Recv Date: Not reported
TSD Site Recv Date: 970327
Part A Recv Date: 970404
Part B Recv Date: 970409
Generator EPA ID: NYD986997047
Trans1 EPA ID: NJD986608941
Trans2 EPA ID: Not reported
TSDF ID: NJD002454544
Waste Code: F003 - UNKNOWN
Quantity: 00055
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 97

Document ID: NJA3094506
Manifest Status: Not reported
Trans1 State ID: NJD080631369
Trans2 State ID: Not reported
Generator Ship Date: 06/26/2000
Trans1 Recv Date: 06/26/2000

BARGE AUTO BODY INC (Continued) 1000693639

Trans2 Recv Date: Not reported
TSD Site Recv Date: 07/07/2000
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD986997047
Trans1 EPA ID: NJD002454544
Trans2 EPA ID: Not reported
TSDF ID: 50160
Waste Code: F003 - UNKNOWN
Quantity: 00165
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 01.00
Year: 2000

Document ID: NJA1987215
Manifest Status: Completed copy
Trans1 State ID: 10339
Trans2 State ID: Not reported
Generator Ship Date: 940914
Trans1 Recv Date: 940914
Trans2 Recv Date: Not reported
TSD Site Recv Date: 940915
Part A Recv Date: 940922
Part B Recv Date: 940923
Generator EPA ID: NYD986997047
Trans1 EPA ID: NJD986608941
Trans2 EPA ID: Not reported
TSDF ID: NJD002454544
Waste Code: F003 - UNKNOWN
Quantity: 00065
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 94

N71 EDR US Hist Auto Stat 1015435705
ESE N/A
1/8-1/4 **34 COFFEY ST**
0.221 mi. **BROOKLYN, NY 11231**
1165 ft. **Site 3 of 4 in cluster N**

Relative: EDR Historical Auto Stations:
Lower
Name: M & L AUTO REPAIR
Year: 2007
Actual: Address: 34 COFFEY ST
6 ft.

Name: M & L AUTO REPAIR
Year: 2008
Address: 34 COFFEY ST

Name: DESTINATION TOWING & AUTOBODY INC
Year: 2011

(Continued) 1015435705

Address: 34 COFFEY ST

Name: DESTINATION TOWING & AUTOBODY INC
Year: 2012
Address: 34 COFFEY ST

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72 NNE 1/8-1/4 0.223 mi. 1179 ft. — **CON EDISON SERVICE BOX: 42105**, **115 SULLIVAN ST**, **BROOKLYN, NY 11231** — RCRA NonGen / NLR — 1016454143, NYP004311031

Relative: Lower
Actual: 7 ft.

RCRA NonGen / NLR:
Date form received by agency: 06/10/2013
Facility name: CON EDISON SERVICE BOX: 42105
Facility address: 115 SULLIVAN ST
BROOKLYN, NY 11231
EPA ID: NYP004311031
Mailing address: VING PL, 15TH FL NE
NEW YORK, NY 10003
Contact: THOMAS TEELING
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (212) 460-3770
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 05/10/2013
Facility name: CON EDISON SERVICE BOX: 42105
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

73 North 1/8-1/4 0.224 mi. 1182 ft. — **CUPIE BUS**, **165 WOLCOTT STREET**, **BROOKLYN, NY 11231** — UST — U004078324, N/A

Relative: Higher
Actual: 9 ft.

UST:
Id/Status: 2-600048 / Unregulated
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: 2006-04-08
UTM X: 583300.53348999994
UTM Y: 4503498.9708700003
Site Type: Trucking/Transportation/Fleet Operation

Affiliation Records:
Site Id: 22036
Affiliation Type: Facility Owner
Company Name: CUPIE BUS
Contact Type: Not reported
Contact Name: Not reported
Address1: 165 WOLCOTT STREET
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11231
Country Code: 001
Phone: (718) 855-6050
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 22036
Affiliation Type: Mail Contact
Company Name: CUPIE BUS
Contact Type: Not reported
Contact Name: LARRY GIUNTA
Address1: 165 WOLCOTT STREET
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11231
Country Code: 001
Phone: (718) 855-6050
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 22036
Affiliation Type: On-Site Operator
Company Name: CUPIE BUS
Contact Type: Not reported
Contact Name: LARRY GIUNTA
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN

CUPIE BUS (Continued) U004078324

Zip Code:	Not reported
Country Code:	001
Phone:	(718) 855-6050
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	22036
Affiliation Type:	Emergency Contact
Company Name:	CUPIE BUS
Contact Type:	Not reported
Contact Name:	LARRY GIUNTA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 855-6050
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank ID:	41188
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	01/01/2003
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None

CUPIE BUS (Continued) U004078324

Tank Number:	002
Tank ID:	41189
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	01/01/2003
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None

Tank Number:	003
Tank ID:	41190
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	6000
Install Date:	Not reported
Date Tank Closed:	01/01/2003
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Tightness Test Method:	03
Date Test:	11/04/1999
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
G00 - Tank Secondary Containment - None

CUPIE BUS (Continued) U004078324

I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None

Tank Number:	004
Tank ID:	41191
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	500
Install Date:	Not reported
Date Tank Closed:	01/01/2003
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
I00 - Overfill - None

Tank Number:	005
Tank ID:	41192
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	01/01/2002
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

CUPIE BUS (Continued) U004078324

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None

Tank Number:	006
Tank ID:	41193
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	6000
Install Date:	Not reported
Date Tank Closed:	01/01/2003
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
I00 - Overfill - None
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None

N74 **H & R SHEET METAL CORP** **RCRA NonGen / NLR** **1000446378**
ESE **31 COFFEY ST** **FINDS** **NYD001329713**
1/8-1/4 **BROOKLYN, NY 11231** **MANIFEST**
0.224 mi.
1183 ft. **Site 4 of 4 in cluster N**

Relative:
Lower

Actual:
6 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	H & R SHEET METAL CORP
Facility address:	31 COFFEY ST BROOKLYN, NY 112311509
EPA ID:	NYD001329713
Mailing address:	COFFEY ST BROOKLYN, NY 11231
Contact:	Not reported

H & R SHEET METAL CORP (Continued) 1000446378

Contact address: COFFEY ST
BROOKLYN, NY 11231
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: H & R SHEET METAL CORP
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: H & R SHEET METAL CORP
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: H & R SHEET METAL CORP
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: H & R SHEET METAL CORP
Classification: Not a generator, verified

H & R SHEET METAL CORP (Continued) 1000446378

Date form received by agency: 08/01/1990
Facility name: H & R SHEET METAL CORP
Classification: Large Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 07/22/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

FINDS:

Registry ID: 110001593990

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:
EPA ID: NYD001329713
Country: USA

Mailing Info:
Name: H & R SHEET METAL MANUFACTURING CO
Contact: CAMILLE DUDLEY
Address: 31 CUFFEY STREET
City/State/Zip: BROOKLYN, NY 11231
Country: USA
Phone: 000-000-0000

Document ID: NJA0802615
Manifest Status: Completed copy
Trans1 State ID: S8690
Trans2 State ID: S8690
Generator Ship Date: 901024
Trans1 Recv Date: 901024
Trans2 Recv Date: 901024
TSD Site Recv Date: 901025
Part A Recv Date: 901106
Part B Recv Date: 901113
Generator EPA ID: NYD001329713
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: ILD051060408
TSDF ID: NJD002182897
Waste Code: F003 - UNKNOWN
Quantity: 00970
Units: P - Pounds
Number of Containers: 002

H & R SHEET METAL CORP (Continued) 1000446378

Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	90

Document ID:	NJA0802613
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	S8690
Trans2 State ID:	S8690
Generator Ship Date:	901019
Trans1 Recv Date:	901019
Trans2 Recv Date:	901029
TSD Site Recv Date:	901030
Part A Recv Date:	901226
Part B Recv Date:	901114
Generator EPA ID:	NYD001329713
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	ILD051060408
TSDF ID:	NJD002182897
Waste Code:	F003 - UNKNOWN
Quantity:	07760
Units:	P - Pounds
Number of Containers:	016
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	90

O75
NE
1/8-1/4
0.225 mi.
1186 ft.

NYC DEPT OF ED - PUBLIC SCHOOL 15K
71 SULLIVAN ST
BROOKLYN, NY 11231

AST U003394322
HIST AST N/A
MANIFEST
NY Spills

Site 1 of 6 in cluster O

Relative:
Higher

Actual:
8 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-356069
Program Type:	PBS
UTM X:	583558.50693000003
UTM Y:	4503384.9398600003
Expiration Date:	2018-06-28
Site Type:	School

Affiliation Records:

Site Id:	17770
Affiliation Type:	Emergency Contact
Company Name:	NEW YORK CITY DEPARTMENT OF EDUCATION
Contact Type:	Not reported
Contact Name:	SCHOOL SAFETY
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999

NYC DEPT OF ED - PUBLIC SCHOOL 15K (Continued) U003394322

Phone:	(718) 935-3300
EMail:	Not reported
Fax Number:	Not reported
Modified By:	GDBREEN
Date Last Modified:	3/3/2014

Site Id:	17770
Affiliation Type:	Facility Owner
Company Name:	NEW YORK CITY DEPARTMENT OF EDUCATION
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	44-36 VERNON BOULEVARD
Address2:	Not reported
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 349-5752
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2/10/2014

Site Id:	17770
Affiliation Type:	Mail Contact
Company Name:	NYC DEPARTMENT OF EDUCATION
Contact Type:	Not reported
Contact Name:	MUNENDRA SHARMA
Address1:	FIELD OPERATIONS-FUEL DIVISION
Address2	44-36 VERNON BOULEVARD
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 349-5752
EMail:	MSHARMA@SCHOOLS.NYC.GOV
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	3/25/2014

Site Id:	17770
Affiliation Type:	On-Site Operator
Company Name:	PUBLIC SCHOOL 15 - BROOKLYN K015
Contact Type:	Not reported
Contact Name:	PLANT OPERATIONS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 349-5400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	5/7/2013

NYC DEPT OF ED - PUBLIC SCHOOL 15K (Continued) U003394322

Tank Info:

Tank Number:	001
Tank Id:	34760
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating
I04 - Overfill - Product Level Gauge (A/G)
C03 - Pipe Location - Aboveground/Underground Combination
E00 - Piping Secondary Containment - None
F01 - Pipe External Protection - Painted/Asphalt Coating
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G02 - Tank Secondary Containment - Vault (w/access)
J02 - Dispenser - Suction Dispenser
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1968
Capacity Gallons:	7500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NRLOMBAR
Last Modified:	10/03/2013
Material Name:	#4 Fuel Oil (On-Site Consumption)

Tank Number:	002
Tank Id:	34761
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)

Equipment Records:

C03 - Pipe Location - Aboveground/Underground Combination
E00 - Piping Secondary Containment - None
F01 - Pipe External Protection - Painted/Asphalt Coating
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
K00 - Spill Prevention - None
B01 - Tank External Protection - Painted/Asphalt Coating
I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G02 - Tank Secondary Containment - Vault (w/access)
J02 - Dispenser - Suction Dispenser

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron

NYC DEPT OF ED - PUBLIC SCHOOL 15K (Continued) U003394322

Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1968
Capacity Gallons:	7500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NRLOMBAR
Last Modified:	10/03/2013
Material Name:	#4 Fuel Oil (On-Site Consumption)

HIST AST:

PBS Number:	2-356069
SWIS Code:	6101
Operator:	PLANT OPERATION
Facility Phone:	(718) 391-6000
Facility Addr2:	71 SULLIVAN STREET
Facility Type:	SCHOOL
Emergency:	SCHOOL SAFETY
Emergency Tel:	(212) 979-3300
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	CITY OF NEW YORK C/O BOARD OF EDUCATION
Owner Address:	28-11 QUEENS PLAZA NORTH
Owner City,St,Zip:	LONG ISLAND CITY, NY 11101
Federal ID:	Not reported
Owner Tel:	(718) 391-6832
Owner Type:	Local Government
Owner Subtype:	Not reported
Mailing Contact:	FRANK CARDELLO NTROL
Mailing Name:	BOARD OF EDUCATION
Mailing Address:	28-11 QUEENS PLAZA NORTH
Mailing Address 2:	5TH FLOOR
Mailing City,St,Zip:	LONG ISLAND CITY, NY 11101
Mailing Telephone:	(718) 391-6832
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	09/02/1998
Expiration:	06/28/2003
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	15000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61

NYC DEPT OF ED - PUBLIC SCHOOL 15K (Continued) U003394322

Town or City Code:	01
Region:	2

Tank ID:	001
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	In Service
Install Date:	Not reported
Capacity (Gal):	7500
Product Stored:	NOS 5 OR 6 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	Diking
Leak Detection:	0
Overfill Protection:	4
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

Tank ID:	002
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	In Service
Install Date:	Not reported
Capacity (Gal):	7500
Product Stored:	NOS 5 OR 6 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	Diking
Leak Detection:	0
Overfill Protection:	4
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

NYC DEPT OF ED - PUBLIC SCHOOL 15K (Continued) U003394322

NY MANIFEST:

EPA ID:	NYR000183293
Country:	USA

Mailing Info:

Name:	NYC DEPT OF ED - PUBLIC SCHOOL 15K
Contact:	NYC SCHOOL CONSTRUCTION AUTHORITY-PS 15K
Address:	30-30 THOMSON AVENUE
City/State/Zip:	LONG ISLAND CITY, NY 11101
Country:	USA
Phone:	718-330-9280

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD054126164
Trans2 State ID:	Not reported
Generator Ship Date:	2011-09-02
Trans1 Recv Date:	2011-09-02
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2011-09-21
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000183293
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	Not reported
Quantity:	1.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	008574700JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H132

SPILLS:

Facility ID:	1208660
Facility Type:	ER
DER Facility ID:	425991
Site ID:	471723
DEC Region:	2
Spill Date:	10/29/2012
Spill Number/Closed Date:	1208660 / 4/23/2013
Spill Cause:	Storm

NYC DEPT OF ED - PUBLIC SCHOOL 15K (Continued) U003394322

Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	SFRAHMAN
Referred To:	Not reported
Reported to Dept:	11/2/2012
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	11/2/2012
Spill Record Last Update:	4/23/2013
Spiller Name:	BOB KANAPERTHI
Spiller Company:	STORM DAMAGE
Spiller Address:	71 SULLIVAN STREET
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	999
Contact Name:	BOB KANAPERTHI
Contact Phone:	(718) 752-8620
DEC Memo:	11/03/12-Hiralkumar Patel. visited site. met Pete Mischler from Board of Education and Erik Nimlos from AKRF. site has two 7,500 gal #6 oil ASTs on saddles. during storm. tank room flooded with water and caused damage to saddles for tank #1 located closer to tank room entrance. front sadddle was completely separated from the tank and back saddle was lifted from the floor. the entire tank was holding on middle saddle. Pete mentioned that both tanks are filled with oil/water mix. there was no damage to tanks itself and no active leak from the tanks. initially crew was asked to pump out entire amount from tank #1. but tank contained heavy #6 oil and there was no pre-heat. so pumping with available equipments was not possible. and also as tank was not leaking. Pete agreed to just pump out oil/water mixture from tank room floor so crew from Brookside Environmental can enter into tank room for further work. Op-Tech crew pumped out 660 gal oil/water mix from tank room floor. afterward. Brookside Environmental secured the the tank #1 by supporting front end with wood. as tank was steady and secured. left site after cleaning the room. Pete mentioned that school is getting two temporary tanks and they will work on damaged tanks lateron. asked Pete to seal the fill ports to avoid any misdelivery to damaged tanks.Pete MischlerNYC Board of EducationPh. (646) 210-7920 (C)email: pmischl@schools.nyc.govErik NimlosAKRFPh. (914) 922-2385 (917) 613-5977 (C)Fax (914) 949-7559email: enimlos@akrf.com** Closure report in edocs.**
Remarks:	storm damage - clean up pending

Material:

Site ID:	471723
Operable Unit ID:	1221579
Operable Unit:	01
Material ID:	2220232
Material Code:	0002A
Material Name:	#4 Fuel Oil

NYC DEPT OF ED - PUBLIC SCHOOL 15K (Continued) U003394322

Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

O76 NE 1/8-1/4 0.225 mi. 1186 ft. **NYC DEPT OF ED - PUBLIC SCHOOL 15K** RCRA-SQG 1014919541
71 SULLIVAN ST NYR000183293
BROOKLYN, NY 11231

Site 2 of 6 in cluster O

Relative: Higher

Actual: 8 ft.

RCRA-SQG:

Date form received by agency:	07/22/2011
Facility name:	NYC DEPT OF ED - PUBLIC SCHOOL 15K
Facility address:	71 SULLIVAN ST BROOKLYN, NY 11231
EPA ID:	NYR000183293
Mailing address:	THOMSON AVE LONG ISLAND CITY, NY 11101
Contact:	ALEXANDER LEMPERT
Contact address:	THOMSON AVE LONG ISLAND CITY, NY 11101
Contact country:	US
Contact telephone:	(718) 472-8501
Contact email:	ALEMPERT@NYCSCA.ORG
EPA Region:	02
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NEW YORK CITY DEPT OF EDUCATION
Owner/operator address:	THOMSON AVE LONG ISLAND CITY, NY 11101
Owner/operator country:	US
Owner/operator telephone:	(718) 472-8501
Legal status:	Municipal
Owner/Operator Type:	Owner
Owner/Op start date:	03/13/1959
Owner/Op end date:	Not reported
Owner/operator name:	NYC DEPT OF SCHOOL FACILITIES
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Municipal
Owner/Operator Type:	Operator

NYC DEPT OF ED - PUBLIC SCHOOL 15K (Continued) **1014919541**

Owner/Op start date: 03/13/1969
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:
Waste code: B004
Waste name: B004

Waste code: B007
Waste name: B007

Violation Status: No violations found

M77 SE 1/8-1/4 0.226 mi. 1192 ft. **H W RAMBERG INC**
37 VAN DYKE ST
BROOKLYN, NY 11231

RCRA NonGen / NLR **1000871906**
FINDS **NY0000103580**

Site 2 of 2 in cluster M

Relative: Lower
Actual: 3 ft.

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: H W RAMBERG INC
Facility address: 37 VAN DYKE ST
BROOKLYN, NY 112311590
EPA ID: NY0000103580
Mailing address: VAN DYKE ST
BROOKLYN, NY 112311590
Contact: Not reported
Contact address: VAN DYKE ST
BROOKLYN, NY 112311590
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: HW RAMBERG INC
Owner/operator address: 37 VAN DYKE ST

H W RAMBERG INC (Continued) **1000871906**

BROOKLYN, NY 11231
Owner/operator country: US
Owner/operator telephone: (718) 625-3960
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: HW RAMBERG INC
Owner/operator address: 37 VAN DYKE ST
BROOKLYN, NY 11231
Owner/operator country: US
Owner/operator telephone: (718) 625-3960
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: H W RAMBERG INC
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: H W RAMBERG INC
Classification: Not a generator, verified

Date form received by agency: 01/28/1994
Facility name: H W RAMBERG INC
Classification: Small Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 11/19/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

H W RAMBERG INC (Continued) **1000871906**

FINDS:

Registry ID: 110004311726

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

O78 NE 1/8-1/4 0.227 mi. 1196 ft. **PREMIUM RUSH MILL**
74 SULLIVAN ST
BROOKLYN, NY 11231

RCRA NonGen / NLR **1014399552**
NYR000176412

Site 3 of 6 in cluster O

Relative: Higher

Actual: 8 ft.

RCRA NonGen / NLR:
Date form received by agency: 10/19/2010
Facility name: PREMIUM RUSH MILL
Facility address: 74 SULLIVAN ST
BROOKLYN, NY 11231
EPA ID: NYR000176412
Mailing address: W WASHINGTON BLVD BURNS 274
CULVER CITY, CA 90232
Contact: CAROL REYNOLDS
Contact address: W WASHINGTON BLVD BURNS 274
CULVER CITY, CA 90232
Contact country: US
Contact telephone: (310) 244-8866
Contact email: CAROL_REYNOLDS@SPE.SONY.COM
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: HIGH TECH PARK
Owner/operator address: SULLIVAN ST
BROOKLYN, NY 11231
Owner/operator country: US
Owner/operator telephone: (917) 414-3200
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 02/01/1997
Owner/Op end date: Not reported

Owner/operator name: COLUMBIA PICTURES INDUSTRIES INC
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 06/21/2010
Owner/Op end date: Not reported

PREMIUM RUSH MILL (Continued) **1014399552**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 06/29/2010
Facility name: PREMIUM RUSH MILL
Classification: Small Quantity Generator

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D035
Waste name: METHYL ETHYL KETONE

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

PREMIUM RUSH MILL (Continued) **1014399552**

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D035
Waste name: METHYL ETHYL KETONE

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

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79 SE 1/8-1/4 0.227 mi. 1200 ft. **NYCDEP** **DEWIGHT ST & BEARD ST** **BROOKLYN, NY** **MANIFEST** **1009235627** **N/A**

Relative: Lower **Actual: 1 ft.**

NY MANIFEST:
EPA ID: NYP003660990
Country: USA

Mailing Info:
Name: NYCDEP
Contact: ELIE SAINT-JEAN
Address: 59-17 JUNCTION BLVD
City/State/Zip: FLUSHING, NY 11368
Country: USA
Phone: 718-595-5774

Document ID: NYG1003545
Manifest Status: Not reported
Trans1 State ID: NYD077444263
Trans2 State ID: Not reported
Generator Ship Date: 03/27/2000

NYCDEP (Continued) **1009235627**

Trans1 Recv Date: 03/27/2000
Trans2 Recv Date: Not reported
TSD Site Recv Date: 03/28/2000
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP003660990
Trans1 EPA ID: NYD077444263
Trans2 EPA ID: Not reported
TSDF ID: PD1010NY
Waste Code: D002 - NON-LISTED CORROSIVE WASTES
Quantity: 00003
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Year: 2000

O80 NE 1/8-1/4 0.229 mi. 1208 ft. **CON EDISON** **OPP 66 SULLIVAN ST AND VAN BRUNT ST** **BROOKLYN, NY 11231** **MANIFEST** **S113495564** **N/A**

Site 4 of 6 in cluster O

Relative: Higher **Actual: 8 ft.**

NY MANIFEST:
EPA ID: NYP004292736
Country: USA

Mailing Info:
Name: CON EDISON
Contact: TOM TEELING
Address: 4 IRVING PLACE - 15TH FLOOR
City/State/Zip: NEW YORK, NY 10003
Country: USA
Phone: 212-460-3770

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NJD003812047
Trans2 State ID: Not reported
Generator Ship Date: 2013-03-11
Trans1 Recv Date: 2013-03-11
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2013-03-11
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP004292736
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NJD991291105
Waste Code: Not reported
Quantity: 800
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 1
Container Type: TT - Cargo tank, tank trucks
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 1

CON EDISON (Continued) S113495564

Year: 2013
Manifest Tracking Num: 002016606GBF
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

O81
NE
1/8-1/4
0.229 mi.
1208 ft.

CON EDISON MANHOLE: 67160 — RCRA NonGen / NLR — 1016450250
66 SULLIVAN ST — NYP004292736
BROOKLYN, NY 11231

Site 5 of 6 in cluster O

Relative:
Higher

Actual:
8 ft.

RCRA NonGen / NLR:
Date form received by agency: 04/11/2013
Facility name: CON EDISON MANHOLE: 67160
Facility address: 66 SULLIVAN ST
BROOKLYN, NY 11231
EPA ID: NYP004292736
Contact: ANTHONY SIGNORE
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (718) 802-3008
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 03/11/2013
Facility name: CON EDISON MANHOLE: 67160
Classification: Conditionally Exempt Small Quantity Generator

CON EDISON MANHOLE: 67160 (Continued) 1016450250

Violation Status: No violations found

O82
NE
1/8-1/4
0.229 mi.
1211 ft.

64 SULLIVAN ST — EDR US Hist Auto Stat — 1015587065
BROOKLYN, NY 11231 — N/A

Site 6 of 6 in cluster O

Relative:
Higher

Actual:
8 ft.

EDR Historical Auto Stations:
Name: RALPHS AUTO BODY
Year: 2000
Address: 64 SULLIVAN ST

Name: RALPHS AUTO BODY
Year: 2001
Address: 64 SULLIVAN ST

Name: RALPHS AUTO BODY
Year: 2002
Address: 64 SULLIVAN ST

Name: RALPHS AUTO BODY
Year: 2003
Address: 64 SULLIVAN ST

Name: RALPHS AUTO BODY
Year: 2012
Address: 64 SULLIVAN ST

83
ENE
1/8-1/4
0.236 mi.
1244 ft.

BROOKHATTAN SMELTING & REFINING CO. — CERCLIS — 1015754902
162 RICHARDS ST — NYN000206647
BROOKLYN, NY 11231

Relative:
Higher

Actual:
8 ft.

CERCLIS:
Site ID: 0206647
EPA ID: NYN000206647
Facility County: KINGS
Short Name: BROOKHATTAN SMELTING & RE
Congressional District: Not reported
IFMS ID: A22Y
SMSA Number: Not reported
USGC Hydro Unit: Not reported
Federal Facility: Not a Federal Facility
DMNSN Number: 0.00000
Site Orphan Flag: Not reported
RCRA ID: Not reported
USGS Quadrangle: Not reported
Site Init By Prog: S
NFRAP Flag: Not reported
Parent ID: Not reported
RST Code: Not reported
EPA Region: 02
Classification: Not reported
Site Settings Code: Not reported
NPL Status: Not on the NPL

BROOKHATTAN SMELTING & REFINING CO. (Continued) **1015754902**

DMNSN Unit Code:	Not reported
RBRAC Code:	Not reported
RResp Fed Agency Code:	Not reported
Non NPL Status:	Referred to Removal - Further Assessment Needed
Non NPL Status Date.	09/04/13
Site Fips Code:	36047
CC Concurrence Date:	/ /
CC Concurrence FY:	Not reported
Alias EPA ID:	Not reported
Site FUDS Flag:	Not reported

Alias Comments: Not reported

Site Description: On November 14, 2012, EPA visited 162 Richards Street, the address of the former Brookhattan Smelting & Refining Co. facility as indicated in Eckel's report, and found the block containing the address to be occupied by the P.S. 015 Patrick F. Daly public school (entrance address: 71 Sullivan Street). The cornerstone of the school indicated that it was built in 1967. Narrow, vegetated areas of exposed soil were observed between the sidewalk and the north, south, and east sides of the school. An athletic area on the west side of the school contains a large grassy lawn as well as about a dozen street trees growing out of small areas of exposed soil. Satellite imagery (available on GoogleMaps) shows a courtyard that appears to contain vegetation and exposed soil in the center of the school. As shown in the photo log provided in Appendix A, across the street from the 162 Richards Street address (approximately 0.02 mile southeast) are apartment buildings with encompassing lawns. A day care center and a park lie approximately 0.02 mile north-northeast and 0.10 mile northeast of the address, respectively, and there are numerous private residences surrounding the address

CERCLIS Assessment History:

Action Code:	001
Action:	DISCOVERY
Date Started:	/ /
Date Completed:	11/28/12
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	PRE-CERCLIS SCREENING
Date Started:	/ /
Date Completed:	11/28/12
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

BROOKHATTAN SMELTING & REFINING CO. (Continued) **1015754902**

Action Code:	001
Action:	PRELIMINARY ASSESSMENT
Date Started:	02/14/13
Date Completed:	03/13/13
Priority Level:	Higher priority for further assessment
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	REMOVAL ASSESSMENT
Date Started:	12/18/12
Date Completed:	08/27/13
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	SITE INSPECTION
Date Started:	/ /
Date Completed:	09/04/13
Priority Level:	Higher priority for further assessment
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Click this hyperlink while viewing on your computer to access
17 additional US CERCLIS Financial. record(s) in the EDR Site Report.

84
North **64 FERRIS ST** **EDR US Hist Auto Stat** **1015586962**
1/8-1/4 **BROOKLYN, NY 11231** **N/A**
0.248 mi.
1309 ft.

Relative: EDR Historical Auto Stations:
Higher

Name:	CLASSIC COLLISION INC
Year.	2002
Address:	64 FERRIS ST

Actual:
8 ft.

P85
SE
1/8-1/4
0.248 mi.
1310 ft.

KARBO BRONZE FOUNDRIES
24 VAN DYKE ST
BROOKLYN, NY 11231

UST 1000545996
AST N/A

Site 1 of 2 in cluster P

Relative:
Lower

Actual:
3 ft.

UST:

Id/Status:	2-238732 / Administratively Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	1993-01-07
UTM X:	583560.64971999999
UTM Y:	4502960.7127999999
Site Type:	Unknown

Affiliation Records:

Site Id:	8956
Affiliation Type:	Facility Owner
Company Name:	HUGH J HENNESSEY
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	2080 HENDRICKS AVE
Address2:	Not reported
City:	BELLMORE
State:	NY
Zip Code:	11710
Country Code:	001
Phone:	(516) 785-4646
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	8956
Affiliation Type:	Mail Contact
Company Name:	HUGH J HENNESSEY
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	2080 HENDRICKS AVE
Address2:	Not reported
City:	BELLMORE
State:	NY
Zip Code:	11710
Country Code:	001
Phone:	(516) 785-4646
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	8956
Affiliation Type:	On-Site Operator
Company Name:	KARBO BRONZE FOUNDRIES
Contact Type:	Not reported
Contact Name:	MATTHEW X HENNESSY
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN

KARBO BRONZE FOUNDRIES (Continued) **1000545996**

Zip Code:	Not reported
Country Code:	001
Phone:	(718) 625-6126
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	8956
Affiliation Type:	Emergency Contact
Company Name:	HUGH J HENNESSEY
Contact Type:	Not reported
Contact Name:	KEVIN OBRIEN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(516) 783-1836
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank ID:	25130
Tank Status:	Administratively Closed
Material Name:	Administratively Closed
Capacity Gallons:	550
Install Date:	01/01/1970
Date Tank Closed:	05/01/1996
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
H00 - Tank Leak Detection - None
D00 - Pipe Type - No Piping
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
G03 - Tank Secondary Containment - Vault (w/o access)

KARBO BRONZE FOUNDRIES (Continued) 1000545996

Tank Number: 002
Tank ID: 25131
Tank Status: Administratively Closed
Material Name: Administratively Closed
Capacity Gallons: 1080
Install Date: 01/01/1968
Date Tank Closed: 05/01/1996
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None

Tank Number: 003
Tank ID: 25132
Tank Status: Administratively Closed
Material Name: Administratively Closed
Capacity Gallons: 2500
Install Date: 01/01/1965
Date Tank Closed: 05/01/1996
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser

KARBO BRONZE FOUNDRIES (Continued) 1000545996

B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)

AST:
Region: STATE
DEC Region: 2
Site Status: Administratively Closed
Facility Id: 2-238732
Program Type: PBS
UTM X: 583560.64971999999
UTM Y: 4502960.7127999999
Expiration Date: 1993-01-07
Site Type: Unknown

Affiliation Records:
Site Id: 8956
Affiliation Type: Facility Owner
Company Name: HUGH J HENNESSEY
Contact Type: Not reported
Contact Name: Not reported
Address1: 2080 HENDRICKS AVE
Address2: Not reported
City: BELLMORE
State: NY
Zip Code: 11710
Country Code: 001
Phone: (516) 785-4646
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 8956
Affiliation Type: Mail Contact
Company Name: HUGH J HENNESSEY
Contact Type: Not reported
Contact Name: Not reported
Address1: 2080 HENDRICKS AVE
Address2: Not reported
City: BELLMORE
State: NY
Zip Code: 11710
Country Code: 001
Phone: (516) 785-4646
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 8956
Affiliation Type: On-Site Operator
Company Name: KARBO BRONZE FOUNDRIES
Contact Type: Not reported
Contact Name: MATTHEW X HENNESSY
Address1: Not reported

KARBO BRONZE FOUNDRIES (Continued) 1000545996

Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 625-6126
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	8956
Affiliation Type:	Emergency Contact
Company Name:	HUGH J HENNESSEY
Contact Type:	Not reported
Contact Name:	KEVIN OBRIEN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(516) 783-1836
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	004
Tank Id:	25133
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Administratively Closed
Pipe Model:	Not reported
Install Date:	01/01/1960
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	05/01/1996
Register:	True
Modified By:	TRANSLAT

KARBO BRONZE FOUNDRIES (Continued) 1000545996

Last Modified:	03/04/2004
Material Name:	#2 Fuel Oil (On-Site Consumption)

Tank Number:	005
Tank Id:	25134
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records.

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Administratively Closed
Pipe Model:	Not reported
Install Date:	01/01/1960
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	05/01/1996
Register:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Material Name:	#2 Fuel Oil (On-Site Consumption)

P86 **EDR US Hist Auto Stat** 1015378225
SE **27 VAN DYKE ST** N/A
1/8-1/4 **BROOKLYN, NY 11231**
0.249 mi.
1314 ft. **Site 2 of 2 in cluster P**

Relative:
Lower

Actual:
3 ft.

EDR Historical Auto Stations:

Name:	COLLISIONVILLE INCORPORATED SCOFLOCK YARD
Year:	2000
Address:	27 VAN DYKE ST

Q87 **ACCURATE ASBESTOS** **SWF/LF** S105841701
North **39 FERRIS STREET** N/A
1/4-1/2 **BROOKLYN, NY 11231**
0.289 mi.
1528 ft. **Site 1 of 2 in cluster Q**

Relative:
Lower

Actual:
5 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	7185226106
Owner Name:	Accurate Asbestos Transport, Inc.
Owner Type:	Private

ACCURATE ASBESTOS (Continued) S105841701

Owner Address:	39 Ferris Street
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11231
Owner Email:	Not reported
Owner Phone:	7185226106
Contact Name:	FRANK CAMPO
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - permit
Activity Number:	[24TA0]
Active:	No
East Coordinate:	583231
North Coordinate:	4503657
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6102-00009
Authorization Date:	Not reported
Expiration Date:	Not reported

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88 ESE 1/4-1/2 0.291 mi. 1538 ft. **WHALECO FUEL CORP**
1 COFFEY ST
BROOKLYN, NY 11231

LTANKS S103037949
MANIFEST N/A

Relative: Lower
Actual: 5 ft.

LTANKS:

Site ID:	218796
Spill Number/Closed Date:	9714140 / 2/6/2006
Spill Date:	3/20/1998
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	JGJONES
Referred To:	Not reported
Reported to Dept:	3/20/1998
CID:	365
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	3/20/1998
Spill Record Last Update:	4/24/2006
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller County:	999
Spiller Contact:	MIKE CAFIERO

WHALECO FUEL CORP (Continued) S103037949

Spiller Phone:	(718) 354-3835
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	180981
DEC Memo:	Closed Feb 6 2006 on basis of letter received Nov. 16, 2005 from Petro Commercial Services.
Remarks:	CALLER RECEIVED LABA DATA FROM SOIL BORINGS THAT INDICATED CONTAMINATION

Material:

Tank Test:

NY MANIFEST:

EPA ID:	NYP000861781
Country:	USA

Mailing Info:

Name:	WHALECO FUEL CORP
Contact:	WHALECO FUEL CORP
Address:	1 COFFEY STREET
City/State/Zip:	BROOKLYN, NY 11231
Country:	USA
Phone:	718-852-7000

NY MANIFEST:

No Manifest Records Available

Q89 North 1/4-1/2 0.307 mi. 1622 ft. **PORT AUTHORITY MARINE**
32 FERRIS STREET
BROOKLYN, NY

LTANKS S104516926
N/A

Site 2 of 2 in cluster Q

Relative: Lower
Actual: 3 ft.

LTANKS:

Site ID:	96987
Spill Number/Closed Date:	9914821 / 10/9/2001
Spill Date:	3/28/2000
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	TOMASELLO
Referred To:	Not reported
Reported to Dept:	3/31/2000
CID:	389
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0

PORT AUTHORITY MARINE (Continued) **S104516926**

Date Entered In Computer: 3/31/2000
Spill Record Last Update: 3/2/2005
Spiller Name: Not reported
Spiller Company: PORT AUTHORITY OF NY & NJ
Spiller Address: 90 COLUMBIA STREET
Spiller City,St,Zip: BROOKLYN, NY
Spiller County: 001
Spiller Contact: CALLER
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 86455
DEC Memo: This is a State facility - see notes in State Agency Environmental Audit Database (under facility #4672)
Remarks: caller reporting a spill of material in the amount around 10 yardsno clean up was done and no callback is necessary back in 1992 it failed a tank test upon removing tank to visible holes were found yet

Material:
Site ID: 96987
Operable Unit ID: 1092716
Operable Unit: 01
Material ID: 293105
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

R90 SE 1/4-1/2 0.321 mi. 1695 ft. **IKEA RED HOOK**
1 BEARD STREET
BROOKLYN, NY

Site 1 of 3 in cluster R

RCRA NonGen / NLR **1000147962**
FINDS **NYD981558299**
SWRCY
LTANKS
MANIFEST
NY Spills

Relative: Lower

Actual: 2 ft.

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: ROYAL MARINE TANK CLEANING INC
Facility address: 1 BEARD ST
BROOKLYN, NY 112311548
EPA ID: NYD981558299
Mailing address: PO BOX 8273
UNION CITY, NY 07087
Contact: Not reported
Contact address: PO BOX 8273
UNION CITY, NY 07087
Contact country: US
Contact telephone: Not reported
Contact email: Not reported

IKEA RED HOOK (Continued) **1000147962**

EPA Region: 02
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: JOSE FIGUEIREDO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: JOSE FIGUEIREDO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: ROYAL MARINE TANK CLEANING INC
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: ROYAL MARINE TANK CLEANING INC
Classification: Not a generator, verified

Date form received by agency: 10/01/1986
Facility name: ROYAL MARINE TANK CLEANING INC
Classification: Large Quantity Generator

IKEA RED HOOK (Continued) **1000147962**

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 07/22/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

FINDS:

Registry ID: 110010172963

Environmental Interest/Information System
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

Registry ID: 110009473211

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Registry ID: 110002368492

Environmental Interest/Information System
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain

IKEA RED HOOK (Continued) **1000147962**

limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

SWRCY:
Region: 2
Facility Address 2: Not reported
Phone Number: 7182374040
Owner Type: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner Address 2: Not reported
Owner City,St,Zip: Not reported
Owner Email: Not reported
Owner Phone: Not reported
Contact Name: MINGLAI CHEN
Contact Address: Not reported
Contact Address 2: Not reported
Contact City,St,Zip: Not reported
Contact Email: Not reported
Contact Phone: Not reported
Activity Desc: RHRF - registration
Activity Number: [24MD1]
Active: No
East Coordinate: Not reported
North Coordinate: Not reported
Accuracy Code: Not reported
Regulatory Status: Not reported
Permit #: Not reported
Auth. Date: Not reported
Expiration Date: Not reported
Waste Types: Not reported

LTANKS:
Site ID: 300291
Spill Number/Closed Date: 9210149 / 3/10/2003
Spill Date: 12/2/1992
Spill Cause: Tank Overfill
Spill Source: Commercial/Industrial
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False

IKEA RED HOOK (Continued) 1000147962

SWIS:	2401
Investigator:	KSTANG
Referred To:	Not reported
Reported to Dept:	12/2/1992
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	12/2/1992
Spill Record Last Update:	3/10/2003
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	242912
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TANG"10/10/95: This Is Additional Information About Material Spilled From The Translation Of The Old Spill File: Sheen.03/10/2003- Closed Due To The Nature / Extent Of The Spill Report.
Remarks:	DURING TANK EXCAVATION CONTAMINATED SOIL & G/W DISCOVERED-WILL PULL TANKS IF POSSIBLE AND CLOSE OTHERS-STOCKPILE,TEST AND DISPOSED 1PLS NOTIFY KOON TANG

Material:

Site ID:	300291
Operable Unit ID:	974254
Operable Unit:	01
Material ID:	558995
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	222502
Spill Number/Closed Date:	9103482 / 3/14/2003
Spill Date:	6/28/1991
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

IKEA RED HOOK (Continued) 1000147962

Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	ADMIN. CLOSED
Referred To:	Not reported
Reported to Dept:	6/28/1991
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	7/1/1991
Spill Record Last Update:	3/14/2003
Spiller Name:	Not reported
Spiller Company:	NY SHIPYARD CO
Spiller Address:	1 BEARD ST
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facilty ID:	242912
DEC Memo:	Not reported
Remarks:	(2) 550'S MANIFOLDED, FAILED HORNER EZY CHECK; GROSS LEAK-FAULTY FILL-PIPE, OWNER WILL EXCAVATE, REPLACE PIPE, & RETESTCLOSED DUE TO LACK OF ANY RECENT INFO - DOES NOT MEET ANY CLEANUP REQUIREMENTS.

Material:

Site ID:	222502
Operable Unit ID:	954301
Operable Unit:	01
Material ID:	425915
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	222502
Spill Tank Test:	1538712
Tank Number:	Not reported
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

IKEA RED HOOK (Continued) **1000147962**

Site ID:	300290
Spill Number/Closed Date:	9012051 / 2/19/1991
Spill Date:	2/19/1991
Spill Cause:	Tank Overfill
Spill Source:	Vessel
Spill Class:	Not reported
Cleanup Ceased:	2/19/1991
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	KSTANG
Referred To:	Not reported
Reported to Dept:	2/19/1991
CID:	Not reported
Water Affected:	ERIE BASIN
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2/27/1991
Spill Record Last Update:	12/11/2002
Spiller Name:	Not reported
Spiller Company:	NY SHIPYARD/PIER 5
Spiller Address:	1 BEARD STREET
Spiller City,St,Zip:	BROOKLYN, NY 11231
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	242912
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TANG"02/19/91: USCG (P O JONES) WAS ON SCENE CLAIMS 1800GAL TANK MOUNTED ON BARGE WHICH IS A WORKER BARGE,TANK OVERFILLED INTO SECONDARY CONTAINMENT & THE DRAIN PLUG OF THE CONTAINMENT WAS REMOVED,OIL LEAKED OUT.
Remarks:	USCG ON SCENE,FUEL SPILLED ONTO BARGE DECK & INTO WATER,BARGE OWNED BYNY SHIPYARD,EMPLOYEES AROUND BARGE WILL PERFORM INHOUSE CLEAN UP,USCG & NYCOEM NOTIFIED,NRC #60209.

Material:

Site ID:	300290
Operable Unit ID:	949075
Operable Unit:	01
Material ID:	428561
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	50
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

IKEA RED HOOK (Continued) **1000147962**

NY MANIFEST:

EPA ID:	NYD986957272
Country:	USA

Mailing Info:

Name:	NEW YORK SHIP YARD
Contact:	KEVIN A NUGENT
Address:	ONE BEARD STREET
City/State/Zip:	BROOKLYN, NY 11231
Country:	USA
Phone:	718-237-4040

Document ID:	NJA0250180
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NJDEPS624
Trans2 State ID:	Not reported
Generator Ship Date:	861104
Trans1 Recv Date:	861104
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	861104
Part A Recv Date:	861218
Part B Recv Date:	861118
Generator EPA ID:	NYD981558299
Trans1 EPA ID:	NJD084044064
Trans2 EPA ID:	Not reported
TSDF ID:	NJD084044064
Waste Code:	X721 - WASTE OIL FROM GAS STATION (NJ ONLY)
Quantity:	01950
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment
Specific Gravity:	100
Year:	86

EPA ID:	NYD981558299
Country:	USA

Mailing Info:

Name:	ROYAL MARINE TANK CLEANING
Contact:	ROYAL MARINE TANK CLEANING
Address:	PO BOX 8273
City/State/Zip:	UNION CITY, NJ 07087
Country:	USA
Phone:	201-420-7564

Document ID:	NJA0250180
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NJDEPS624
Trans2 State ID:	Not reported
Generator Ship Date:	861104
Trans1 Recv Date:	861104
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	861104
Part A Recv Date:	861218
Part B Recv Date:	861118

IKEA RED HOOK (Continued) 1000147962

Generator EPA ID:	NYD981558299
Trans1 EPA ID:	NJD084044064
Trans2 EPA ID:	Not reported
TSDF ID:	NJD084044064
Waste Code:	X721 - WASTE OIL FROM GAS STATION (NJ ONLY)
Quantity:	01950
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	86

EPA ID:	NYR000024976
Country:	USA

Mailing Info:

Name:	ONE BEARD STREET LLC
Contact:	XENOPHON MANDAS
Address:	420 ALLENWOOD ROAD
City/State/Zip:	CONSHOHOCKEN, PA 19428
Country:	USA
Phone:	718-499-0155

Document ID:	NJA0250180
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NJDEPS624
Trans2 State ID:	Not reported
Generator Ship Date:	861104
Trans1 Recv Date:	861104
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	861104
Part A Recv Date:	861218
Part B Recv Date:	861118
Generator EPA ID:	NYD981558299
Trans1 EPA ID:	NJD084044064
Trans2 EPA ID:	Not reported
TSDF ID:	NJD084044064
Waste Code:	X721 - WASTE OIL FROM GAS STATION (NJ ONLY)
Quantity:	01950
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	86

SPILLS:

Facility ID:	9007000
Facility Type:	ER
DER Facility ID:	242912
Site ID:	300288
DEC Region:	2
Spill Date:	9/26/1990
Spill Number/Closed Date:	9007000 / 2/4/1998
Spill Cause:	Human Error

IKEA RED HOOK (Continued) 1000147962

Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	WILSON
Referred To:	Not reported
Reported to Dept:	9/26/1990
CID:	Not reported
Water Affected:	ERIE BASIN
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	10/3/1990
Spill Record Last Update:	12/11/2002
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	BOOMED OFF AREA, TO PICK UP & DISPOSE.

Material:

Site ID:	300288
Operable Unit ID:	947524
Operable Unit:	01
Material ID:	434429
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	9005511
Facility Type:	ER
DER Facility ID:	242912
Site ID:	300287
DEC Region:	2
Spill Date:	8/19/1990
Spill Number/Closed Date:	9005511 / 8/19/1990
Spill Cause:	Unknown
Spill Class:	Not reported
SWIS:	2401

IKEA RED HOOK (Continued) 1000147962

Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	8/19/1990
CID:	Not reported
Water Affected:	ERIE BASIN
Spill Source:	Vessel
Spill Notifier:	Responsible Party
Cleanup Ceased:	8/19/1990
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	8/20/1990
Spill Record Last Update:	12/11/2002
Spiller Name:	Not reported
Spiller Company:	NY SHIPYARD
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	BOOMING OFF SPILL, USCG NOTIFIED.

Material:

Site ID:	300287
Operable Unit ID:	943055
Operable Unit:	01
Material ID:	436554
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	20
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	9213505
Facility Type:	ER
DER Facility ID:	242912
Site ID:	133782
DEC Region:	2
Spill Date:	3/8/1993
Spill Number/Closed Date:	9213505 / 3/9/1993
Spill Cause:	Human Error
Spill Class:	Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	O'DOWD
Referred To:	Not reported
Reported to Dept:	3/8/1993

IKEA RED HOOK (Continued) 1000147962

CID:	Not reported
Water Affected:	ERIE BASIN AREA
Spill Source:	Vessel
Spill Notifier:	Federal Government
Cleanup Ceased:	3/9/1993
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	3/9/1993
Spill Record Last Update:	1/17/2003
Spiller Name:	Not reported
Spiller Company:	GLENWOOD LITE-TANK BARGE
Spiller Address:	Not reported
Spiller City,St,Zip:	BAYONNE, NJ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	UNK. REASON FOR VESSEL TANK OVERFILL - OIL TO WATERWAY - BOOMS APPLIED, DECK CLEANED - WILL APPLY SORBENT PADS - USCG ENROUTE NOTIF WILL NOTIFY NRC - USCG TO NOTIFY NYC DEP.

Material:

Site ID:	133782
Operable Unit ID:	980675
Operable Unit:	01
Material ID:	557047
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False
Site ID:	133782
Operable Unit ID:	980675
Operable Unit:	01
Material ID:	557046
Material Code:	0002A
Material Name:	#4 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	50
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	9109213
Facility Type:	ER

IKEA RED HOOK (Continued) 1000147962

DER Facility ID:	242912
Site ID:	222503
DEC Region:	2
Spill Date:	11/27/1991
Spill Number/Closed Date:	9109213 / 11/27/1991
Spill Cause:	Deliberate
Spill Class:	Not reported
SWIS:	2401
Investigator:	FINGER
Referred To:	Not reported
Reported to Dept:	11/27/1991
CID:	Not reported
Water Affected:	ERIE BASIN
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	11/27/1991
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	12/3/1991
Spill Record Last Update:	12/11/2002
Spiller Name:	Not reported
Spiller Company:	AMERTECH INDUSTRIES
Spiller Address:	VAN DYKE ST
Spiller City,St,Zip:	BROOKLYN, ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	DYE RELEASED ONTO DOCK. AUTOMATIC PUMPS DUMPED MAT'L INTO BASIN. HARMLESS BUT BRIGHT GREEN IN COLOR. USCG RESPONDING.

Material:

Site ID:	222503
Operable Unit ID:	963166
Operable Unit:	01
Material ID:	417860
Material Code:	1723A
Material Name:	SPECTRO TEST LIQUID
Case No.:	Not reported
Material FA:	Other
Quantity:	500
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	0709238
Facility Type:	ER
DER Facility ID:	339869
Site ID:	390280
DEC Region:	2

IKEA RED HOOK (Continued) 1000147962

Spill Date:	11/26/2007
Spill Number/Closed Date:	0709238 / 12/11/2007
Spill Cause:	Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	11/26/2007
CID:	408
Water Affected:	ERIE BASIN
Spill Source:	Vessel
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	11/26/2007
Spill Record Last Update:	12/11/2007
Spiller Name:	Not reported
Spiller Company:	NOT DETERMINED
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	999
Contact Name:	ROBERT SCHMIDT
Contact Phone:	(973) 315-0200
DEC Memo:	DER/Albany was notified on 11/26/07 of a barge sinking/oil spill at an IKEA department store construction site along Erie Basin in Brooklyn. This barge had no fuel on it, other than the fuel and hydraulic oil in a front end loader that was on this vessel. To compound the problem, a second barge drifted over this sunk barge, and then sank on top of it. The barge's owner placed boom around the sunk barges, and a contractor was hired to collect the product as it rose to the water's surface. It was estimated that thee was approximately 50 gallons of diesel fuel and over 100 gallons of hydraulic fluid. The US Coast Guard will develop a salvage plan with the barge owner. CLosed.
Remarks:	HYDRALYIC OIL IS VEGTABLE BASED AND ENVIRO FRIENDLY; VESSEL SUNK AND ESCAVATOR WAS ON IT; AREA WAS BOONED;

Material:

Site ID:	390280
Operable Unit ID:	1147385
Operable Unit:	01
Material ID:	2137785
Material Code:	0010
Material Name:	Hydraulic Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False
Site ID:	390280
Operable Unit ID:	1147385

IKEA RED HOOK (Continued) **1000147962**

Operable Unit:	01
Material ID:	2137784
Material Code:	0908
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	20
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

R91 SE 1/4-1/2 0.321 mi. 1695 ft. **U. S. DREDGING SHIPYARD SITE**
ONE BEARD STREET
BROOKLYN, NY 11231

ENG CONTROLS S106906480
INST CONTROL N/A
BROWNFIELDS

Site 2 of 3 in cluster R

Relative: Lower
Actual: 2 ft.

ENG CONTROLS:

Site Code:	57800
HW Code:	C224043
Control Code:	13
Control Type:	ENG
Date Record Added:	05/25/2008
Date Rec Updated:	08/24/2012
Updated By:	SRHEIGEL

Site Description: Location: The U.S. Dredging site is 48 acre former industrial property in a commercial and industrial area along Beard Street in the Red Hook area of Brooklyn. Site Features: About 25 acres of the 48-acre site are underwater in the Erie Basin. Past Use of the Site: Until early 2005, a ship repair facility and a variety of small industrial and commercial operations occupied the nineteen on-site buildings. Since the 1860s shipyards and related ship maintenance and repair operations have occupied the site. Historically, shipyards have utilized a variety of hazardous materials, including petroleum products, solvents, PCBs, and heavy metals such as mercury, arsenic, lead, and copper. Most of the upland portion of the site was created by filling in the basin at different points in the sites history. The fill materials used at the site are unknown, but may have included coal and incinerator ash, demolition debris, and industrial wastes, which commonly were used as fill throughout the City in past decades. Site Geology and Hydrogeology: Prior to being filled in, the entire site had been marsh land or under water. Groundwater tends to flow toward the adjacent Erie Basin.Site Remediation and Management: Remediation activities commenced in January 2006 and continued prior to, and during site redevelopment activities through June 2008 when a furniture store opened at the site.The Final Engineering Report was approved on June 17, 2008. The Certificate of Completion was signed on that date. Site Management, has commenced in accordance with the Department-approved Site Management Plan that consists of sub-slab depressurization systems and engineering and institutional

U. S. DREDGING SHIPYARD SITE (Continued) **S106906480**

controls.The site is under site management with periodic soil vapor sampling and periodic certifications.

Env Problem: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were various petroleum products, volatile organic compounds (VOCs), and polychlorinated biphenyls (PCBs) related to site activities. Polycyclic aromatic hydrocarbons (PAHs) and metals were also present due to site activities and the historic fill across the entire site. Site investigations showed that metals and PAH contamination is ubiquitous to all soils at the site. The sediment in the Erie basin was similarly contaminated.Beginning in the 1860s, shipyards and related ship maintenance and repair operations occupied the Site. Historically, shipyards have utilized a variety of hazardous materials, including petroleum products, solvents, polychlorinated biphenyls (PCBs), and heavy metals (used in marine paints) such as mercury, arsenic, lead, and copper. Large portions of the site were filled in at different points in the sites history. The fill materials used at the site included coal and incinerator ash, demolition debris. During the site investigations,ninety-nine soil samples were collected from 80 locations, thirteen groundwater monitoring wells were constructed on-site and sampled twice, thirty-six sediment samples were collected from the Erie Basin, five composite samples were collected from three waste piles,twenty-three samples of sludge or soil were collected from drainage structures, sumps and manholes,two samples of stained wood flooring were collected,five samples of stained concrete flooring were collected,wipe samples were collected from the floors of the seven electrical substations,thirteen soil gas monitoring wells were installed to collect soil gas samplesthree wipe samples and one bulk dust sample were collected from ducts associated with a former dust collection system, andfifty-eight soil gas sampling points were constructed and sampled for organic vapors analyses and speciation.PAHs and heavy metals were detected in most of the soil samples at concentrations well above TAGM values and regional background. Most of the PAHs and much of the metals contamination is heterogeneously present through the entire site and is largely attributed to the historic fill. Site activities were the cause the elevated concentrations of arsenic, copper, lead, and mercury found in some on-site locations that are well above the amounts typically found in urban fill. There were TCLP failures for lead at three locations that were excavated for off-site disposal. Some of the soil samples also exhibited elevated concentrations of VOCs and/or PCBs related to site activities. VOC and PCB impacted soil was remediated via excavation to TAGM 4046 cleanup objectives. Two rounds of groundwater sampling found that none of the PAHs, VOCs, nor PCB contamination found in the soil are significantly impacting groundwater. When the groundwater was sampled using a low-flow technique to minimize suspended solids during the second round, the metals concentrations were found to be below groundwater standards in all but three instances. Organic vapors, primarily methane, were detected in 35 of the soil gas sampling locations. Vapor barriers and sub-slab depressurization systems (SSDSs) were constructed in all locations (except support columns) that the large Ikea building contacts the ground. Three planned satellite buildings will also have SSDSs.The site does not present a significant environmental threat

Health Problem: Since some contaminated soils remain at the site below concrete or clean backfill, people will not come into contact with contaminated soils unless they dig below the surface. People are not coming into

U. S. DREDGING SHIPYARD SITE (Continued) **S106906480**

contact with contaminated groundwater since the area is served by a public water supply that is not affected by this contamination. A sub-slab depressurization was installed in the on-site retail building to prevent vapors beneath the slab from entering the building.

INST CONTROL:
Site Code: 57800
Control Name: Site Management Plan
HW Code: C224043
Control Code: 32
Control Type: INST
Dt record added: 06/25/2008
Dt rec updated: 08/24/2012
Updated By: SRHEIGEL
Site Code: 57800
Site Description: Location: The U.S. Dredging site is 48 acre former industrial property in a commercial and industrial area along Beard Street in the Red Hook area of Brooklyn. Site Features: About 25 acres of the 48-acre site are underwater in the Erie Basin. Past Use of the Site: Until early 2005, a ship repair facility and a variety of small industrial and commercial operations occupied the nineteen on-site buildings. Since the 1860s shipyards and related ship maintenance and repair operations have occupied the site. Historically, shipyards have utilized a variety of hazardous materials, including petroleum products, solvents, PCBs, and heavy metals such as mercury, arsenic, lead, and copper. Most of the upland portion of the site was created by filling in the basin at different points in the sites history. The fill materials used at the site are unknown, but may have included coal and incinerator ash, demolition debris, and industrial wastes, which commonly were used as fill throughout the City in past decades. Site Geology and Hydrogeology: Prior to being filled in, the entire site had been marsh land or under water. Groundwater tends to flow toward the adjacent Erie Basin.Site Remediation and Management: Remediation activities commenced in January 2006 and continued prior to, and during site redevelopment activities through June 2008 when a furniture store opened at the site.The Final Engineering Report was approved on June 17, 2008. The Certificate of Completion was signed on that date. Site Management, has commenced in accordance with the Department-approved Site Management Plan that consists of sub-slab depressurization systems and engineering and institutional controls.The site is under site management with periodic soil vapor sampling and periodic certifications.
Env Problem: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were various petroleum products, volatile organic compounds (VOCs), and polychlorinated biphenyls (PCBs) related to site activities. Polycyclic aromatic hydrocarbons (PAHs) and metals were also present due to site activities and the historic fill across the entire site. Site investigations showed that metals and PAH contamination is ubiquitous to all soils at the site. The sediment in the Erie basin was similarly contaminated.Beginning in the 1860s, shipyards and related ship maintenance and repair operations occupied the Site. Historically, shipyards have utilized a variety of hazardous materials, including petroleum products, solvents, polychlorinated biphenyls (PCBs), and heavy metals (used in marine paints) such as mercury, arsenic, lead, and copper. Large portions of the site were filled in at different points in the sites

U. S. DREDGING SHIPYARD SITE (Continued) **S106906480**

history. The fill materials used at the site included coal and incinerator ash, demolition debris. During the site investigations,ninety-nine soil samples were collected from 80 locations, thirteen groundwater monitoring wells were constructed on-site and sampled twice, thirty-six sediment samples were collected from the Erie Basin, five composite samples were collected from three waste piles,twenty-three samples of sludge or soil were collected from drainage structures, sumps and manholes,two samples of stained wood flooring were collected,five samples of stained concrete flooring were collected,wipe samples were collected from the floors of the seven electrical substations,thirteen soil gas monitoring wells were installed to collect soil gas samplesthree wipe samples and one bulk dust sample were collected from ducts associated with a former dust collection system, andfifty-eight soil gas sampling points were constructed and sampled for organic vapors analyses and speciation.PAHs and heavy metals were detected in most of the soil samples at concentrations well above TAGM values and regional background. Most of the PAHs and much of the metals contamination is heterogeneously present through the entire site and is largely attributed to the historic fill. Site activities were the cause the elevated concentrations of arsenic, copper, lead, and mercury found in some on-site locations that are well above the amounts typically found in urban fill. There were TCLP failures for lead at three locations that were excavated for off-site disposal. Some of the soil samples also exhibited elevated concentrations of VOCs and/or PCBs related to site activities. VOC and PCB impacted soil was remediated via excavation to TAGM 4046 cleanup objectives. Two rounds of groundwater sampling found that none of the PAHs, VOCs, nor PCB contamination found in the soil are significantly impacting groundwater. When the groundwater was sampled using a low-flow technique to minimize suspended solids during the second round, the metals concentrations were found to be below groundwater standards in all but three instances. Organic vapors, primarily methane, were detected in 35 of the soil gas sampling locations. Vapor barriers and sub-slab depressurization systems (SSDSs) were constructed in all locations (except support columns) that the large Ikea building contacts the ground. Three planned satellite buildings will also have SSDSs.The site does not present a significant environmental threat.
Health Problem: Since some contaminated soils remain at the site below concrete or clean backfill, people will not come into contact with contaminated soils unless they dig below the surface. People are not coming into contact with contaminated groundwater since the area is served by a public water supply that is not affected by this contamination. A sub-slab depressurization was installed in the on-site retail building to prevent vapors beneath the slab from entering the building.

Site Code: 57800
Control Name: Ground Water Use Restriction
HW Code: C224043
Control Code: 08
Control Type: INST
Dt record added: 06/25/2008
Dt rec updated: 08/24/2012
Updated By: SRHEIGEL
Site Code: 57800
Site Description: Location: The U.S. Dredging site is 48 acre former industrial

U. S. DREDGING SHIPYARD SITE (Continued) S106906480

property in a commercial and industrial area along Beard Street in the Red Hook area of Brooklyn. Site Features: About 25 acres of the 48-acre site are underwater in the Erie Basin. Past Use of the Site: Until early 2005, a ship repair facility and a variety of small industrial and commercial operations occupied the nineteen on-site buildings. Since the 1860s shipyards and related ship maintenance and repair operations have occupied the site. Historically, shipyards have utilized a variety of hazardous materials, including petroleum products, solvents, PCBs, and heavy metals such as mercury, arsenic, lead, and copper. Most of the upland portion of the site was created by filling in the basin at different points in the sites history. The fill materials used at the site are unknown, but may have included coal and incinerator ash, demolition debris, and industrial wastes, which commonly were used as fill throughout the City in past decades. Site Geology and Hydrogeology: Prior to being filled in, the entire site had been marsh land or under water. Groundwater tends to flow toward the adjacent Erie Basin.Site Remediation and Management: Remediation activities commenced in January 2006 and continued prior to, and during site redevelopment activities through June 2008 when a furniture store opened at the site.The Final Engineering Report was approved on June 17, 2008. The Certificate of Completion was signed on that date. Site Management, has commenced in accordance with the Department-approved Site Management Plan that consists of sub-slab depressurization systems and engineering and institutional controls.The site is under site management with periodic soil vapor sampling and periodic certifications.

Env Problem: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were various petroleum products, volatile organic compounds (VOCs), and polychlorinated biphenyls (PCBs) related to site activities. Polycyclic aromatic hydrocarbons (PAHs) and metals were also present due to site activities and the historic fill across the entire site. Site investigations showed that metals and PAH contamination is ubiquitous to all soils at the site. The sediment in the Erie basin was similarly contaminated.Beginning in the 1860s, shipyards and related ship maintenance and repair operations occupied the Site. Historically, shipyards have utilized a variety of hazardous materials, including petroleum products, solvents, polychlorinated biphenyls (PCBs), and heavy metals (used in marine paints) such as mercury, arsenic, lead, and copper. Large portions of the site were filled in at different points in the sites history. The fill materials used at the site included coal and incinerator ash, demolition debris. During the site investigations,ninety-nine soil samples were collected from 80 locations, thirteen groundwater monitoring wells were constructed on-site and sampled twice, thirty-six sediment samples were collected from the Erie Basin, five composite samples were collected from three waste piles,twenty-three samples of sludge or soil were collected from drainage structures, sumps and manholes,two samples of stained wood flooring were collected,five samples of stained concrete flooring were collected,wipe samples were collected from the floors of the seven electrical substations,thirteen soil gas monitoring wells were installed to collect soil gas samplesthree wipe samples and one bulk dust sample were collected from ducts associated with a former dust collection system, andfifty-eight soil gas sampling points were constructed and sampled for organic vapors analyses and speciation.PAHs and heavy metals were detected in most of the soil samples at concentrations well above TAGM values and regional

U. S. DREDGING SHIPYARD SITE (Continued) S106906480

background. Most of the PAHs and much of the metals contamination is heterogeneously present through the entire site and is largely attributed to the historic fill. Site activities were the cause the elevated concentrations of arsenic, copper, lead, and mercury found in some on-site locations that are well above the amounts typically found in urban fill. There were TCLP failures for lead at three locations that were excavated for off-site disposal. Some of the soil samples also exhibited elevated concentrations of VOCs and/or PCBs related to site activities. VOC and PCB impacted soil was remediated via excavation to TAGM 4046 cleanup objectives. Two rounds of groundwater sampling found that none of the PAHs, VOCs, nor PCB contamination found in the soil are significantly impacting groundwater. When the groundwater was sampled using a low-flow technique to minimize suspended solids during the second round, the metals concentrations were found to be below groundwater standards in all but three instances. Organic vapors, primarily methane, were detected in 35 of the soil gas sampling locations. Vapor barriers and sub-slab depressurization systems (SSDSs) were constructed in all locations (except support columns) that the large Ikea building contacts the ground. Three planned satellite buildings will also have SSDSs.The site does not present a significant environmental threat.

Health Problem: Since some contaminated soils remain at the site below concrete or clean backfill, people will not come into contact with contaminated soils unless they dig below the surface. People are not coming into contact with contaminated groundwater since the area is served by a public water supply that is not affected by this contamination. A sub-slab depressurization was installed in the on-site retail building to prevent vapors beneath the slab from entering the building.

Site Code: 57800
Control Name: Soil Management Plan
HW Code: C224043
Control Code: 14
Control Type: INST
Dt record added: 06/25/2008
Dt rec updated: 08/24/2012
Updated By: SRHEIGEL
Site Code: 57800

Site Description: Location: The U.S. Dredging site is 48 acre former industrial property in a commercial and industrial area along Beard Street in the Red Hook area of Brooklyn. Site Features: About 25 acres of the 48-acre site are underwater in the Erie Basin. Past Use of the Site: Until early 2005, a ship repair facility and a variety of small industrial and commercial operations occupied the nineteen on-site buildings. Since the 1860s shipyards and related ship maintenance and repair operations have occupied the site. Historically, shipyards have utilized a variety of hazardous materials, including petroleum products, solvents, PCBs, and heavy metals such as mercury, arsenic, lead, and copper. Most of the upland portion of the site was created by filling in the basin at different points in the sites history. The fill materials used at the site are unknown, but may have included coal and incinerator ash, demolition debris, and industrial wastes, which commonly were used as fill throughout the City in past decades. Site Geology and Hydrogeology: Prior to being filled in, the entire site had been marsh land or under water. Groundwater tends to flow toward the adjacent Erie Basin.Site Remediation and Management:

U. S. DREDGING SHIPYARD SITE (Continued) S106906480

Remediation activities commenced in January 2006 and continued prior to, and during site redevelopment activities through June 2008 when a furniture store opened at the site.The Final Engineering Report was approved on June 17, 2008. The Certificate of Completion was signed on that date. Site Management, has commenced in accordance with the Department-approved Site Management Plan that consists of sub-slab depressurization systems and engineering and institutional controls.The site is under site management with periodic soil vapor sampling and periodic certifications.

Env Problem: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were various petroleum products, volatile organic compounds (VOCs), and polychlorinated biphenyls (PCBs) related to site activities. Polycyclic aromatic hydrocarbons (PAHs) and metals were also present due to site activities and the historic fill across the entire site. Site investigations showed that metals and PAH contamination is ubiquitous to all soils at the site. The sediment in the Erie basin was similarly contaminated.Beginning in the 1860s, shipyards and related ship maintenance and repair operations occupied the Site. Historically, shipyards have utilized a variety of hazardous materials, including petroleum products, solvents, polychlorinated biphenyls (PCBs), and heavy metals (used in marine paints) such as mercury, arsenic, lead, and copper. Large portions of the site were filled in at different points in the sites history. The fill materials used at the site included coal and incinerator ash, demolition debris. During the site investigations,ninety-nine soil samples were collected from 80 locations, thirteen groundwater monitoring wells were constructed on-site and sampled twice, thirty-six sediment samples were collected from the Erie Basin, five composite samples were collected from three waste piles,twenty-three samples of sludge or soil were collected from drainage structures, sumps and manholes,two samples of stained wood flooring were collected,five samples of stained concrete flooring were collected,wipe samples were collected from the floors of the seven electrical substations,thirteen soil gas monitoring wells were installed to collect soil gas samplesthree wipe samples and one bulk dust sample were collected from ducts associated with a former dust collection system, andfifty-eight soil gas sampling points were constructed and sampled for organic vapors analyses and speciation.PAHs and heavy metals were detected in most of the soil samples at concentrations well above TAGM values and regional background. Most of the PAHs and much of the metals contamination is heterogeneously present through the entire site and is largely attributed to the historic fill. Site activities were the cause the elevated concentrations of arsenic, copper, lead, and mercury found in some on-site locations that are well above the amounts typically found in urban fill. There were TCLP failures for lead at three locations that were excavated for off-site disposal. Some of the soil samples also exhibited elevated concentrations of VOCs and/or PCBs related to site activities. VOC and PCB impacted soil was remediated via excavation to TAGM 4046 cleanup objectives. Two rounds of groundwater sampling found that none of the PAHs, VOCs, nor PCB contamination found in the soil are significantly impacting groundwater. When the groundwater was sampled using a low-flow technique to minimize suspended solids during the second round, the metals concentrations were found to be below groundwater standards in all but three instances. Organic vapors, primarily methane, were detected in 35 of the soil gas sampling locations. Vapor barriers and

U. S. DREDGING SHIPYARD SITE (Continued) S106906480

sub-slab depressurization systems (SSDSs) were constructed in all locations (except support columns) that the large Ikea building contacts the ground. Three planned satellite buildings will also have SSDSs.The site does not present a significant environmental threat.

Health Problem: Since some contaminated soils remain at the site below concrete or clean backfill, people will not come into contact with contaminated soils unless they dig below the surface. People are not coming into contact with contaminated groundwater since the area is served by a public water supply that is not affected by this contamination. A sub-slab depressurization was installed in the on-site retail building to prevent vapors beneath the slab from entering the building.

Site Code: 57800
Control Name: Landuse Restriction
HW Code: C224043
Control Code: 25
Control Type: INST
Dt record added: 06/25/2008
Dt rec updated: 08/24/2012
Updated By: SRHEIGEL
Site Code: 57800

Site Description: Location: The U.S. Dredging site is 48 acre former industrial property in a commercial and industrial area along Beard Street in the Red Hook area of Brooklyn. Site Features: About 25 acres of the 48-acre site are underwater in the Erie Basin. Past Use of the Site: Until early 2005, a ship repair facility and a variety of small industrial and commercial operations occupied the nineteen on-site buildings. Since the 1860s shipyards and related ship maintenance and repair operations have occupied the site. Historically, shipyards have utilized a variety of hazardous materials, including petroleum products, solvents, PCBs, and heavy metals such as mercury, arsenic, lead, and copper. Most of the upland portion of the site was created by filling in the basin at different points in the sites history. The fill materials used at the site are unknown, but may have included coal and incinerator ash, demolition debris, and industrial wastes, which commonly were used as fill throughout the City in past decades Site Geology and Hydrogeology: Prior to being filled in, the entire site had been marsh land or under water. Groundwater tends to flow toward the adjacent Erie Basin.Site Remediation and Management Remediation activities commenced in January 2006 and continued prior to, and during site redevelopment activities through June 2008 when a furniture store opened at the site.The Final Engineering Report was approved on June 17, 2008. The Certificate of Completion was signed on that date. Site Management, has commenced in accordance with the Department-approved Site Management Plan that consists of sub-slab depressurization systems and engineering and institutional controls.The site is under site management with periodic soil vapor sampling and periodic certifications.

Env Problem: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were various petroleum products, volatile organic compounds (VOCs), and polychlorinated biphenyls (PCBs) related to site activities. Polycyclic aromatic hydrocarbons (PAHs) and metals were also present due to site activities and the historic fill across the entire site. Site investigations showed that metals and PAH contamination is ubiquitous to all soils at the site. The sediment in the Erie basin was similarly contaminated.Beginning

U. S. DREDGING SHIPYARD SITE (Continued) S106906480

in the 1860s, shipyards and related ship maintenance and repair operations occupied the Site. Historically, shipyards have utilized a variety of hazardous materials, including petroleum products, solvents, polychlorinated biphenyls (PCBs), and heavy metals (used in marine paints) such as mercury, arsenic, lead, and copper. Large portions of the site were filled in at different points in the sites history. The fill materials used at the site included coal and incinerator ash, demolition debris. During the site investigations,ninety-nine soil samples were collected from 80 locations, thirteen groundwater monitoring wells were constructed on-site and sampled twice, thirty-six sediment samples were collected from the Erie Basin, five composite samples were collected from three waste piles,twenty-three samples of sludge or soil were collected from drainage structures, sumps and manholes,two samples of stained wood flooring were collected,five samples of stained concrete flooring were collected,wipe samples were collected from the floors of the seven electrical substations,thirteen soil gas monitoring wells were installed to collect soil gas samplesthree wipe samples and one bulk dust sample were collected from ducts associated with a former dust collection system, andfifty-eight soil gas sampling points were constructed and sampled for organic vapors analyses and speciation.PAHs and heavy metals were detected in most of the soil samples at concentrations well above TAGM values and regional background. Most of the PAHs and much of the metals contamination is heterogeneously present through the entire site and is largely attributed to the historic fill. Site activities were the cause the elevated concentrations of arsenic, copper, lead, and mercury found in some on-site locations that are well above the amounts typically found in urban fill. There were TCLP failures for lead at three locations that were excavated for off-site disposal. Some of the soil samples also exhibited elevated concentrations of VOCs and/or PCBs related to site activities. VOC and PCB impacted soil was remediated via excavation to TAGM 4046 cleanup objectives. Two rounds of groundwater sampling found that none of the PAHs, VOCs, nor PCB contamination found in the soil are significantly impacting groundwater. When the groundwater was sampled using a low-flow technique to minimize suspended solids during the second round, the metals concentrations were found to be below groundwater standards in all but three instances. Organic vapors, primarily methane, were detected in 35 of the soil gas sampling locations. Vapor barriers and sub-slab depressurization systems (SSDSs) were constructed in all locations (except support columns) that the large Ikea building contacts the ground. Three planned satellite buildings will also have SSDSs.The site does not present a significant environmental threat.

Health Problem: Since some contaminated soils remain at the site below concrete or clean backfill, people will not come into contact with contaminated soils unless they dig below the surface. People are not coming into contact with contaminated groundwater since the area is served by a public water supply that is not affected by this contamination. A sub-slab depressurization was installed in the on-site retail building to prevent vapors beneath the slab from entering the building.

Site Code: 57800
Control Name: Environmental Easement
HW Code: C224043
Control Code: J

U. S. DREDGING SHIPYARD SITE (Continued) S106906480

Control Type: INST
Dt record added: 06/25/2008
Dt rec updated: 08/24/2012
Updated By: SRHEIGEL
Site Code: 57800
Site Description: Location: The U.S. Dredging site is 48 acre former industrial property in a commercial and industrial area along Beard Street in the Red Hook area of Brooklyn. Site Features: About 25 acres of the 48-acre site are underwater in the Erie Basin. Past Use of the Site: Until early 2005, a ship repair facility and a variety of small industrial and commercial operations occupied the nineteen on-site buildings. Since the 1860s shipyards and related ship maintenance and repair operations have occupied the site. Historically, shipyards have utilized a variety of hazardous materials, including petroleum products, solvents, PCBs, and heavy metals such as mercury, arsenic, lead, and copper. Most of the upland portion of the site was created by filling in the basin at different points in the sites history. The fill materials used at the site are unknown, but may have included coal and incinerator ash, demolition debris, and industrial wastes, which commonly were used as fill throughout the City in past decades. Site Geology and Hydrogeology: Prior to being filled in, the entire site had been marsh land or under water. Groundwater tends to flow toward the adjacent Erie Basin.Site Remediation and Management: Remediation activities commenced in January 2006 and continued prior to, and during site redevelopment activities through June 2008 when a furniture store opened at the site.The Final Engineering Report was approved on June 17, 2008. The Certificate of Completion was signed on that date. Site Management, has commenced in accordance with the Department-approved Site Management Plan that consists of sub-slab depressurization systems and engineering and institutional controls.The site is under site management with periodic soil vapor sampling and periodic certifications.

Env Problem: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were various petroleum products, volatile organic compounds (VOCs), and polychlorinated biphenyls (PCBs) related to site activities. Polycyclic aromatic hydrocarbons (PAHs) and metals were also present due to site activities and the historic fill across the entire site. Site investigations showed that metals and PAH contamination is ubiquitous to all soils at the site. The sediment in the Erie basin was similarly contaminated.Beginning in the 1860s, shipyards and related ship maintenance and repair operations occupied the Site. Historically, shipyards have utilized a variety of hazardous materials, including petroleum products, solvents, polychlorinated biphenyls (PCBs), and heavy metals (used in marine paints) such as mercury, arsenic, lead, and copper. Large portions of the site were filled in at different points in the sites history. The fill materials used at the site included coal and incinerator ash, demolition debris. During the site investigations,ninety-nine soil samples were collected from 80 locations, thirteen groundwater monitoring wells were constructed on-site and sampled twice, thirty-six sediment samples were collected from the Erie Basin, five composite samples were collected from three waste piles,twenty-three samples of sludge or soil were collected from drainage structures, sumps and manholes,two samples of stained wood flooring were collected,five samples of stained concrete flooring were collected,wipe samples were collected from the floors of the seven electrical substations,thirteen soil gas monitoring

U. S. DREDGING SHIPYARD SITE (Continued) **S106906480**

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Health Problem: Since some contaminated soils remain at the site below concrete or clean backfill, people will not come into contact with contaminated soils unless they dig below the surface. People are not coming into contact with contaminated groundwater since the area is served by a public water supply that is not affected by this contamination. A sub-slab depressurization was installed in the on-site retail building to prevent vapors beneath the slab from entering the building.

BROWNFIELDS:

Program: BCP

Site Code: 57800

Site Description: Location: The U.S. Dredging site is 48 acre former industrial property in a commercial and industrial area along Beard Street in the Red Hook area of Brooklyn. Site Features: About 25 acres of the 48-acre site are underwater in the Erie Basin. Past Use of the Site: Until early 2005, a ship repair facility and a variety of small industrial and commercial operations occupied the nineteen on-site buildings. Since the 1860s shipyards and related ship maintenance and repair operations have occupied the site. Historically, shipyards have utilized a variety of hazardous materials, including petroleum products, solvents, PCBs, and heavy metals such as mercury, arsenic, lead, and copper. Most of the upland portion of the site was created by filling in the basin at different points in the sites history. The fill materials used at the site are unknown, but may have included coal and incinerator ash, demolition debris, and industrial wastes, which commonly were used as fill throughout the City in past decades. Site Geology and Hydrogeology: Prior to being filled in, the entire site had been marsh land or under water. Groundwater tends to flow toward the adjacent Erie Basin.Site Remediation and Management:

U. S. DREDGING SHIPYARD SITE (Continued) **S106906480**

Remediation activities commenced in January 2006 and continued prior to, and during site redevelopment activities through June 2008 when a furniture store opened at the site.The Final Engineering Report was approved on June 17, 2008. The Certificate of Completion was signed on that date. Site Management, has commenced in accordance with the Department-approved Site Management Plan that consists of sub-slab depressurization systems and engineering and institutional controls.The site is under site management with periodic soil vapor sampling and periodic certifications.

Env Problem: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were various petroleum products, volatile organic compounds (VOCs), and polychlorinated biphenyls (PCBs) related to site activities. Polycyclic aromatic hydrocarbons (PAHs) and metals were also present due to site activities and the historic fill across the entire site. Site investigations showed that metals and PAH contamination is ubiquitous to all soils at the site. The sediment in the Erie basin was similarly contaminated.Beginning in the 1860s, shipyards and related ship maintenance and repair operations occupied the Site. Historically, shipyards have utilized a variety of hazardous materials, including petroleum products, solvents, polychlorinated biphenyls (PCBs), and heavy metals (used in marine paints) such as mercury, arsenic, lead, and copper. Large portions of the site were filled in at different points in the sites history. The fill materials used at the site included coal and incinerator ash, demolition debris. During the site investigations,ninety-nine soil samples were collected from 80 locations, thirteen groundwater monitoring wells were constructed on-site and sampled twice, thirty-six sediment samples were collected from the Erie Basin, five composite samples were collected from three waste piles,twenty-three samples of sludge or soil were collected from drainage structures, sumps and manholes,two samples of stained wood flooring were collected,five samples of stained concrete flooring were collected,wipe samples were collected from the floors of the seven electrical substations,thirteen soil gas monitoring wells were installed to collect soil gas samplesthree wipe samples and one bulk dust sample were collected from ducts associated with a former dust collection system, andfifty-eight soil gas sampling points were constructed and sampled for organic vapors analyses and speciation.PAHs and heavy metals were detected in most of the soil samples at concentrations well above TAGM values and regional background. Most of the PAHs and much of the metals contamination is heterogeneously present through the entire site and is largely attributed to the historic fill. Site activities were the cause the elevated concentrations of arsenic, copper, lead, and mercury found in some on-site locations that are well above the amounts typically found in urban fill. There were TCLP failures for lead at three locations that were excavated for off-site disposal. Some of the soil samples also exhibited elevated concentrations of VOCs and/or PCBs related to site activities. VOC and PCB impacted soil was remediated via excavation to TAGM 4046 cleanup objectives. Two rounds of groundwater sampling found that none of the PAHs, VOCs, nor PCB contamination found in the soil are significantly impacting groundwater. When the groundwater was sampled using a low-flow technique to minimize suspended solids during the second round, the metals concentrations were found to be below groundwater standards in all but three instances. Organic vapors, primarily methane, were detected in 35 of the soil gas sampling locations. Vapor barriers and

U. S. DREDGING SHIPYARD SITE (Continued) — **S106906480**

Health Problem: sub-slab depressurization systems (SSDSs) were constructed in all locations (except support columns) that the large Ikea building contacts the ground. Three planned satelite buildings will also have SSDSs.The site does not present a significant environmental threat. Since some contaminated soils remain at the site below concrete or clean backfill, people will not come into contact with contaminated soils unless they dig below the surface. People are not coming into contact with contaminated groundwater since the area is served by a public water supply that is not affected by this contamination. A sub-slab depressurization was installed in the on-site retail building to prevent vapors beneath the slab from entering the building.

R92 SE 1/4-1/2 0.321 mi. 1695 ft. — **U.S. DREDGING SHIPYARD SITE**, **ONE BEARD STREET**, **BROOKLYN, NY 11231** — **VCP** — **S113922119** / **N/A**

Site 3 of 3 in cluster R

Relative: Lower / **Actual: 2 ft.**

VCP:

Program Type:	VCP
Site Code:	57799
HW Code:	V00650
Site Class:	N
SWIS:	2401
Region:	2
Town:	New York City
Acres:	48.050
Date Record Added:	04/10/2003
Date Record Updated:	07/11/2008
Updated By:	MOBARRIE
Site Description:	See Site No. C224043
Env Problem:	Not reported
Health Problem:	Not reported

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93 East 1/4-1/2 0.324 mi. 1710 ft. — **RED HOOK WEST**, **11 LORRAINE STREET**, **BROOKLYN, NY 11231** — **LTANKS** / **UST** / **NY Spills** — **U002034227** / **N/A**

Relative: Higher / **Actual: 9 ft.**

LTANKS:

Site ID:	266649
Spill Number/Closed Date:	9105606 / 12/19/2005
Spill Date:	8/23/1991
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party, Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SWKRASZE
Referred To:	Not reported
Reported to Dept:	8/23/1991
CID:	Not reported
Water Affected:	Not reported

RED HOOK WEST (Continued) — **U002034227**

Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	8/30/1991
Spill Record Last Update:	12/19/2005
Spiller Name:	Not reported
Spiller Company:	NYCHA
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	208277
DEC Memo:	12/19/05: This spill transferred from J.Kolleeny to S.Kraszewski.This spill closed to consolidate with open spill #9510807
Remarks:	15K TANK. HORNER EZ CHECK. VISUAL GROSS LEAK-SYSTEM TEST. WILL REPAIR

Material:

Site ID:	266649
Operable Unit ID:	959938
Operable Unit:	01
Material ID:	421393
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	266649
Spill Tank Test:	1538950
Tank Number:	001
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

Site ID:	303756
Spill Number/Closed Date:	9200022 / 12/19/2005
Spill Date:	4/1/1992
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party, Corrective action taken.

RED HOOK WEST (Continued) U002034227

Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SWKRASZE
Referred To:	Not reported
Reported to Dept:	4/1/1992
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	4/7/1992
Spill Record Last Update:	12/19/2005
Spiller Name:	Not reported
Spiller Company:	NYCHA
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	208277
DEC Memo:	12/19/05: This spill transferred from J.Kolleeny to S.Kraszewski.This spill closed to consolidate with open spill #9510807.
Remarks:	NO ACTION YET DETERMINED

Material:

Site ID:	303756
Operable Unit ID:	967253
Operable Unit:	01
Material ID:	414867
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	303756
Spill Tank Test:	1539810
Tank Number:	001
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

RED HOOK WEST (Continued) U002034227

UST:

Id/Status:	2-601879 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	2014-06-02
UTM X:	583754.80070999998
UTM Y:	4503133.28101
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	23841
Affiliation Type:	On-Site Operator
Company Name:	RED HOOK WEST
Contact Type:	Not reported
Contact Name:	FUEL OIL REMEDIATION UNIT
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 707-5725
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	1/30/2014

Site Id:	23841
Affiliation Type:	Facility Owner
Company Name:	NEW YORK CITY HOUSING AUTHORITY
Contact Type:	FUEL OIL REMEDIATION COORDINATOR
Contact Name:	Not reported
Address1:	23-02 49TH AVENUE
Address2:	Not reported
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 707-5725
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2/11/2014

Site Id:	23841
Affiliation Type:	Mail Contact
Company Name:	NYC HOUSING AUTHORITY
Contact Type:	Not reported
Contact Name:	FUEL OIL REMEDIATION COORDINATOR
Address1:	23-02 49TH AVENUE
Address2:	TECH SERVS DEPT - 5TH FLOOR
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 707-5725

RED HOOK WEST (Continued) U002034227

EMail:	Y.TKACH@NYCHA.NYC.GOV
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	3/25/2014
Site Id:	23841
Affiliation Type:	Emergency Contact
Company Name:	NEW YORK CITY HOUSING AUTHORITY
Contact Type:	Not reported
Contact Name:	EMERGENCY SERVICES DEPT.
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 707-5900
EMail:	Not reported
Fax Number:	Not reported
Modified By:	bkfalvey
Date Last Modified:	6/1/2009

Tank Info:

Tank Number:	001
Tank ID:	48194
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	16000
Install Date:	04/01/1996
Date Tank Closed:	04/01/1996
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
F06 - Pipe External Protection - Wrapped
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)

Tank Number: 1

RED HOOK WEST (Continued) U002034227

Tank ID:	54759
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	10000
Install Date:	05/01/1996
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Fiberglass coated steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	A
Modified By:	NRLOMBAR
Last Modified:	12/30/2008

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
E00 - Piping Secondary Containment - None
G04 - Tank Secondary Containment - Double-Walled (Underground)
C02 - Pipe Location - Underground/On-ground
F02 - Pipe External Protection - Original Sacrificial Anode
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I02 - Overfill - High Level Alarm
F06 - Pipe External Protection - Wrapped
B04 - Tank External Protection - Fiberglass
K01 - Spill Prevention - Catch Basin

SPILLS:

Facility ID:	9510807
Facility Type:	ER
DER Facility ID:	208277
Site ID:	254285
DEC Region:	2
Spill Date:	11/27/1995
Spill Number/Closed Date:	9510807 / Not Reported
Spill Cause:	Equipment Failure
Spill Class:	Known release that creates potential for fire or hazard. DEC Response Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	jkkann
Referred To:	IWP RCVD 7/16/12
Reported to Dept:	11/28/1995
CID:	270
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False

RED HOOK WEST (Continued) U002034227

UST Trust: False
Remediation Phase: 1
Date Entered In Computer: 11/28/1995
Spill Record Last Update: 7/18/2012
Spiller Name: DANNY RANCIC
Spiller Company: ALPS MECHANICAL - NYCHA
Spiller Address: Not reported
Spiller City,St,Zip: BROOKLYN, NY
Spiller Company: 001
Contact Name: FRANK OCELLO
Contact Phone: (212) 306-3229
DEC Memo: 12/19/05: This spill transferred from J.Kolleeny to S.Kraszewski.07/28/06: NYCHA update summary states that one 16K UST installed in 1955 that stored #4 oil was closed in place in 1996. A 10K UST storing #2 oil was installed in 1996 and is currently in service. 13 MWs on site. NYCHA will provide a new site assessment to DEC. - SK02/08/07 : DEC lead changed from S. Kraszewski to J. Kann. J.Kann07/18/12 - J.Kann - IWP received on 7/16/12.
Remarks: FLANGE ON TANK BROKE CLEAN UP IN PROGRESS

Material:
Site ID: 254285
Operable Unit ID: 1021347
Operable Unit: 01
Material ID: 358159
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 3500
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

---

94 East 1/4-1/2 0.336 mi. 1774 ft.

RED HOOK WEST
82 DWIGHT STREET - PLANT #8
BROOKLYN, NY 11231

LTANKS U002034226
UST N/A
NY Spills

Relative: Higher
Actual: 9 ft.

LTANKS:
Site ID: 62702
Spill Number/Closed Date: 9011065 / 7/3/1996
Spill Date: 1/17/1991
Spill Cause: Tank Test Failure
Spill Source: Commercial/Industrial
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 2401
Investigator: HEALY
Referred To: Not reported
Reported to Dept: 1/17/1991

RED HOOK WEST (Continued) U002034226

CID: Not reported
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1/29/1991
Spill Record Last Update: 7/3/1996
Spiller Name: Not reported
Spiller Company: NYCHA
Spiller Address: 250 BROADWAY
Spiller City,St,Zip: NEW YORK, NY
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 60755
DEC Memo: Not reported
Remarks: 25K TANK FAILED HORNER EZY CHECK WITH A GROSS LEAK,POSSIBLE FAULTY STICK LINE,WILL REPLACE OR REPAIR & RETEST.

Material:
Site ID: 62702
Operable Unit ID: 948085
Operable Unit: 01
Material ID: 431159
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: -1
Units: Pounds
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: 62702
Spill Tank Test: 1538165
Tank Number: 001
Tank Size: 0
Test Method: 00
Leak Rate: 0
Gross Fail: Not reported
Modified By: Spills
Last Modified: 10/1/2004
Test Method: Unknown

UST:
Id/Status: 2-601878 / Active
Program Type: PBS
Region: STATE
DEC Region: 2

RED HOOK WEST (Continued) U002034226

Expiration Date: 2014-06-02
UTM X: 583739.95926999999
UTM Y: 4503207.7617499996
Site Type: Apartment Building/Office Building

Affiliation Records:

Site Id: 23840
Affiliation Type: On-Site Operator
Company Name: RED HOOK WEST
Contact Type: Not reported
Contact Name: FUEL OIL REMEDIATION UNIT
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 707-5725
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 1/30/2014

Site Id: 23840
Affiliation Type: Facility Owner
Company Name: NEW YORK CITY HOUSING AUTHORITY
Contact Type: FUEL OIL REMEDIATION COORDINATOR
Contact Name: Not reported
Address1: 23-02 49TH AVENUE
Address2: Not reported
City: LONG ISLAND CITY
State: NY
Zip Code: 11101
Country Code: 001
Phone: (718) 707-5725
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2/11/2014

Site Id: 23840
Affiliation Type: Emergency Contact
Company Name: NEW YORK CITY HOUSING AUTHORITY
Contact Type: Not reported
Contact Name: EMERGENCY SERVICES DEPT.
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (718) 707-5900
EMail: Not reported
Fax Number: Not reported
Modified By: bkfalvey
Date Last Modified: 6/1/2009

Site Id: 23840

RED HOOK WEST (Continued) U002034226

Affiliation Type: Mail Contact
Company Name: NYC HOUSING AUTHORITY
Contact Type: Not reported
Contact Name: FUEL OIL REMEDIATION COORDINATOR
Address1: 23-02 49TH AVENUE
Address2: TECH SERVS DEPT - 5TH FLOOR
City: LONG ISLAND CITY
State: NY
Zip Code: 11101
Country Code: 001
Phone: (718) 707-5725
EMail: Y.TKACH@NYCHA.NYC.GOV
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 3/25/2014

Tank Info:

Tank Number: 001
Tank ID: 46193
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 16000
Install Date: 05/01/1955
Date Tank Closed: 05/01/1996
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

J02 - Dispenser - Suction Dispenser
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
B00 - Tank External Protection - None
F06 - Pipe External Protection - Wrapped
I04 - Overfill - Product Level Gauge (A/G)
C00 - Pipe Location - No Piping

Tank Number: 1
Tank ID: 51202
Tank Status: In Service
Material Name: In Service
Capacity Gallons: 20000
Install Date: 05/01/1998
Date Tank Closed: Not reported

RED HOOK WEST (Continued) U002034226

Registered: True
Tank Location: Underground
Tank Type: Fiberglass coated steel
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: A
Modified By: NRLOMBAR
Last Modified: 12/30/2008

Equipment Records:

F06 - Pipe External Protection - Wrapped
E00 - Piping Secondary Containment - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
C02 - Pipe Location - Underground/On-ground
F02 - Pipe External Protection - Original Sacrificial Anode
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I02 - Overfill - High Level Alarm
G04 - Tank Secondary Containment - Double-Walled (Underground)
B04 - Tank External Protection - Fiberglass
K01 - Spill Prevention - Catch Basin

Tank Number: OLD TK #1
Tank ID: 58144
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 25000
Install Date: 04/01/1996
Date Tank Closed: 04/01/1996
Registered: True
Tank Location: Underground
Tank Type: Z
Material Code: ZZZZ
Common Name of Substance: Invalid Material - Please Fix

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
I00 - Overfill - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

RED HOOK WEST (Continued) U002034226

SPILLS:

Facility ID: 9505488
Facility Type: ER
DER Facility ID: 60755
Site ID: 62703
DEC Region: 2
Spill Date: 8/3/1995
Spill Number/Closed Date: 9505488 / 9/17/2013
Spill Cause: Unknown
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 2401
Investigator: jkkann
Referred To: Not reported
Reported to Dept: 8/3/1995
CID: Not reported
Water Affected: Not reported
Spill Source: Institutional, Educational, Gov., Other
Spill Notifier: DEC
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 8/4/1995
Spill Record Last Update: 9/17/2013
Spiller Name: Not reported
Spiller Company: NYC HOUSING AUTHORITY
Spiller Address: Not reported
Spiller City,St,Zip: ZZ
Spiller Company: 001
Contact Name: Not reported
Contact Phone: Not reported
DEC Memo: 12/19/05: This spill transferred from J.Kolleeny to S.Kraszewski.03/23/06: This spill transferred to K.Tang - SK09/23/10: J.Kann - spill transferred from K. Tang to J.Kann. 5/29/12: J.kann - priority p0 assigned to site07/18/12 - J.Kann - IWP received on 7/16/12.9/17/13: J.Kann - entire file reviewed. Letter from Jane Healy Nash dated July 3, 1996 was reviewed and edoced. This letter clearly indicates that based on the review of the TRC investigation (report dated March 1996), the spill at 82 Dwight Street can be closed. The spill for the TTF 9011065 was closed on July 3, 1996; however this spill was for the same tank/same location and was overlooked. The investigation performed by TRC allowing the basis for closure of 9011065 was around the same tank and would justify closure of this spill. NFA.
Remarks: CONTAMINATED SOIL AND WATER FOUND DURING TANK REPLACEMENT

Material:

Site ID: 62703
Operable Unit ID: 1016386
Operable Unit: 01
Material ID: 363480
Material Code: 0003A
Material Name: #6 Fuel Oil
Case No.: Not reported

RED HOOK WEST (Continued) — **U002034226**

Material FA:	Petroleum
Quantity:	-1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

95
ESE
1/4-1/2
0.349 mi.
1843 ft.

ALLSTATE MEDICAL WASTE DISPOSAL; INC.
27-29 BAY STREET
BROOKLYN, NY 11231

SWF/LF — **S105841645**
N/A

Relative:
Lower

Actual:
6 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	JOSEPH SAVINO
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Regulated medical waste - commercial treatment
Activity Number:	[24HB6]
Active:	No
East Coordinate:	583740
North Coordinate:	4503007
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6102-00108
Authorization Date:	Not reported
Expiration Date:	Not reported

96
ESE
1/4-1/2
0.397 mi.
2097 ft.

WASTE MANAGEMENT (EASTERN) (ALLEGRO CART
518-526 COLUMBIA ST
BROOKLYN, NY 11231

SWF/LF — **S105841760**
N/A

Relative:
Lower

Actual:
7 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	7185335308
Owner Name:	Not reported

WASTE MANAGEMENT (EASTERN) (ALLEGRO CART (Continued) — **S105841760**

Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	TARA HEMMER
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - registration
Activity Number:	[24W42]
Active:	No
East Coordinate:	583827
North Coordinate:	4503021
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6101-00002
Authorization Date:	Not reported
Expiration Date:	Not reported

Flag:	INACTIVE
Region Code:	2
Phone Number:	7185335308
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	TARA HEMMER
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - permit
Activity Number:	[24T42]
Active:	No
East Coordinate:	583827
North Coordinate:	4503021
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6101-00002
Authorization Date:	Not reported
Expiration Date:	Not reported

97 ESE 1/4-1/2 0.398 mi. 2101 ft.

MOBIL GAS STATION
50-25 BAY PARKWAY
BROOKLYN, NY

LTANKS S101341041
NY Spills N/A

Relative: Higher

Actual: 8 ft.

LTANKS:

Site ID:	212877
Spill Number/Closed Date:	9407907 / 12/6/1994
Spill Date:	9/14/1994
Spill Cause:	Tank Test Failure
Spill Source:	Gasoline Station
Spill Class:	Not reported
Cleanup Ceased:	12/6/1994
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	O'DOWD
Referred To:	Not reported
Reported to Dept:	9/14/1994
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	10/27/1994
Spill Record Last Update:	12/6/1994
Spiller Name:	Not reported
Spiller Company:	MOBIL GAS STATION
Spiller Address:	50-25 BAY PARKWAY
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	176358
DEC Memo:	Not reported
Remarks:	HOSE LEAKED INTO SUBMISSIBLE TANK PUMP PIT DOING A TANK TEST-LINE TEST FAILURE-VISIBLE LEAK IN FLEX HOLE. SHUT DOWN LINE. CALLING A CONTRACTOR TO FIX HOSE & RETEST.

Material:

Site ID:	212877
Operable Unit ID:	1002132
Operable Unit:	01
Material ID:	377365
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

MOBIL GAS STATION (Continued) **S101341041**

Tank Test:

Site ID:	212877
Spill Tank Test:	1543142
Tank Number:	Not reported
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

SPILLS:

Facility ID:	9415606
Facility Type:	ER
DER Facility ID:	176358
Site ID:	64637
DEC Region:	2
Spill Date:	3/1/1995
Spill Number/Closed Date:	9415606 / 6/22/2005
Spill Cause:	Equipment Failure
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	Unassigned
Referred To:	Not reported
Reported to Dept:	3/1/1995
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	True
Remediation Phase:	0
Date Entered In Computer:	4/21/1995
Spill Record Last Update:	8/21/2008
Spiller Name:	MIKE MEOLA
Spiller Company:	EXXONMOBIL OIL CO
Spiller Address:	3225 GALLOWS ROAD
Spiller City,St,Zip:	FAIRFAX, VA 22037
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Reassigned from Tomasello to Sigona on 11/6/00.This spill case was reassigned from DEC (Sigona) to Rommel on 02/10/2004.Spill No. 9415606 was called in on 3-1-1995 due to free product in the submersible pump. The caller, ExxonMobil, reported that it was repaired and cleaned up. Groundwater samples were collected on 3-7-1995 and 7-20-1995 from on-site wells. Three groundwater samples were also collected on 6-27-1995. All five groundwater samples were acceptable. Based on this file information, this spill site is closed. John Dumin 6-22-2005.

MOBIL GAS STATION (Continued) **S101341041**

Remarks: FREE PRODUCT FOUND IN SUBMERSIBLE PUMP SYSTEM- CALLER UNSURE OF CAUSE - REPAIRED CLEANED UP BY ON SITE PERSONNEL.

Material:

Site ID:	64637
Operable Unit ID:	1012842
Operable Unit:	01
Material ID:	370788
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

98
SE
1/4-1/2
0.448 mi.
2366 ft.

BROOKLYN CRUSHED MATERIALS; INC.
640 COLUMBIA ST
BROOKLYN, NY 00000

SWF/LF **S105841898**
N/A

Relative:
Lower

Actual:
7 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	Not reported
Owner Name:	Diamond Asphalt Corp.
Owner Type:	Not reported
Owner Address:	91 Paidge Ave
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11222-0175
Owner Email:	Not reported
Owner Phone:	7183834198
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - registration
Activity Number:	[24W145]
Active:	No
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported

Flag:	INACTIVE
Region Code:	2

BROOKLYN CRUSHED MATERIALS; INC. (Continued) **S105841898**

Phone Number:	7189359565
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	MICHAEL COSOLO; PRESIDENT
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - permit
Activity Number:	[24T56]
Active:	No
East Coordinate:	583700
North Coordinate:	4502800
Accuracy Code:	Not reported
Regulatory Status:	Permit
Waste Type:	Not reported
Authorization #:	2-6102-00003
Authorization Date:	09/19/1990
Expiration Date:	09/19/1995

99
ENE
1/4-1/2
0.449 mi.
2369 ft.

WAREHOUSE
80 RICHARDS STREET
BROOKLYN, NY

LTANKS **S106124575**
N/A

Relative:
Higher

Actual:
9 ft.

LTANKS:

Site ID:	270335
Spill Number/Closed Date:	0310837 / 2/13/2004
Spill Date:	12/20/2003
Spill Cause:	Tank Failure
Spill Source:	Non Major Facility > 1,100 gal
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	TJDEMEO
Referred To:	Not reported
Reported to Dept:	12/20/2003
CID:	72
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	12/20/2003
Spill Record Last Update:	2/13/2004
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported

WAREHOUSE (Continued) **S106124575**

Spiller City,St,Zip: ***Update***, ZZ
Spiller County: 001
Spiller Contact: ANTHONY LARA
Spiller Phone: (646) 772-7180
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 220138
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "DEMEO"DeMeo responded to the site. 5,000 gal tank failure.2/13/04 TJDTank failure. All product contained inside tank vault, with concrete floor in good condition. No sumps or drains impacted. PTC performed pump out and pressure wash of tank room. No further action required. Spill closed.
Remarks: Tank rupture of 5,000 gallon tank. Petroleum tank cleaners on the way to investigate.

Material:
Site ID: 270335
Operable Unit ID: 875925
Operable Unit: 01
Material ID: 499681
Material Code: 0003A
Material Name: #6 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Pounds
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

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100 East 1/4-1/2 0.464 mi. 2452 ft.

RED HOOK EAST -NYCHA
37 CENTER MALL
NEW YORK CITY, NY

LTANKS **S104513537**
N/A

Relative: Higher

Actual: 11 ft.

LTANKS:
Site ID: 283388
Spill Number/Closed Date: 9011672 / 2/8/2013
Spill Date: 2/6/1991
Spill Cause: Tank Test Failure
Spill Source: Institutional, Educational, Gov., Other
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 2401
Investigator: jkkann
Referred To: Not reported
Reported to Dept: 2/6/1991
CID: Not reported
Water Affected: Not reported
Spill Notifier: Tank Tester

RED HOOK EAST -NYCHA (Continued) **S104513537**

Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 2/12/1991
Spill Record Last Update: 2/8/2013
Spiller Name: Not reported
Spiller Company: NYCHA
Spiller Address: 250 BROADWAY
Spiller City,St,Zip: NEW YORK, NY
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 229851
DEC Memo: 01/24/06: This spill transferred from J.Kolleeny to S.Kraszewski. One TTF in 1991 for a 16K tank installed in 1939. A Subsurface Investigation was performed in 1995: 4 soil boings and 1 MW were installed. 3 soil samples and 1 GW samples were analyzed. A slight impact to the soil was discovered but no impact to the GW. However, it is doubtful that this area was properly delineated seeing that only one MW was put in. The shallow GW is of concern as well. An additional MW or two with GW samples would probably suffice. - SK03/22/06: This spill transferred to K.Tang - SK09/23/10: J.Kann - spill transferred from K. Tang to J.Kann. 07/18/12 - J.Kann - IWP received on 7/16/12.1/22/13: J.Kann - Discussed this site in an August 2012 meeting with NYCHA and Pardus Environmental (646-577-8280). Closure was proposed by NYCHA's consultant. The file is under review. Initial investigation performed by TRC did not show impacts (with the exception of a TPH reading in one sample - likely the "slight" impact discussed above). Requested any tank closure/removal documentation available from NYCHA on January 16.2/8/13: J.Kann - After file review, it is important to note that this was the only spill called in for this site. No other spills were called in (as is common for NYCHA during a tank excavation). PBS registration from 2002 shows that the tank was removed in 1996. Presented the case to the spill closure panel. Edoced the summary email. Closure Letter prepared and sent. Spill closed.
Remarks: 15K TANK SYSTEM FAILED HORNER EZY CHECK WITH A GROSS LEAK, NO ACTION YET DETERMINED.

Material:
Site ID: 283388
Operable Unit ID: 951647
Operable Unit: 01
Material ID: 428202
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: -1
Units: Not reported
Recovered: No
Resource Affected: Not reported
Oxygenate: False

RED HOOK EAST -NYCHA (Continued) **S104513537**

Tank Test:

Site ID:	283388
Spill Tank Test:	1538228
Tank Number:	001
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

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101 ENE 1/4-1/2 0.465 mi. 2453 ft.

Relative: Higher

Actual: 11 ft.

RED HOOK WEST
420 COLUMBIA STREET
BROOKLYN, NY 11231

LTANKS U002034225
UST N/A
NY Spills

LTANKS:

Site ID:	279620
Spill Number/Closed Date:	9200023 / 12/20/2005
Spill Date:	4/1/1992
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SWKRASZE
Referred To:	Not reported
Reported to Dept:	4/1/1992
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	4/7/1992
Spill Record Last Update:	12/20/2005
Spiller Name:	Not reported
Spiller Company:	NYCHA
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	227063
DEC Memo:	12/20/05: This spill transferred from J.Kolleeny to S.Kraszewski.This spill closed to consolidate with open spill #9502334.
Remarks	NO ACTION YET DETERMINED.

RED HOOK WEST (Continued) **U002034225**

Material:

Site ID:	279620
Operable Unit ID:	967255
Operable Unit:	01
Material ID:	414868
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	279620
Spill Tank Test:	1539811
Tank Number:	001
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

Site ID:	279619
Spill Number/Closed Date:	9011015 / 12/20/2005
Spill Date:	1/16/1991
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SWKRASZE
Referred To:	Not reported
Reported to Dept:	1/16/1991
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1/29/1991
Spill Record Last Update:	12/20/2005
Spiller Name:	Not reported
Spiller Company:	NYCHA
Spiller Address:	250 BROADWAY
Spiller City,St,Zip:	NEW YORK, NY
Spiller County:	001
Spiller Contact:	Not reported

RED HOOK WEST (Continued) U002034225

Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 227063
DEC Memo: 12/20/05: This spill transferred from R.Koating to S.Kraszewski.This spill closed to consolidate with open spill #9502334.
Remarks: 15K TANK FAILED HORNER EZY CHECK,VISUAL GROSS LEAK, LEAK IN FILL LINE,STOPPED LEAK,WILL REPLACE LINE & RETEST WITHIN (2) MONTHS.

Material:
Site ID: 279619
Operable Unit ID: 951209
Operable Unit: 01
Material ID: 431114
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: -1
Units: Pounds
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: 279619
Spill Tank Test: 1538158
Tank Number: 001
Tank Size: 0
Test Method: 00
Leak Rate: 0
Gross Fail: Not reported
Modified By: Spills
Last Modified: 10/1/2004
Test Method: Unknown

UST:
Id/Status: 2-601877 / Active
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: 2014-06-02
UTM X: 584000.89992
UTM Y: 4503404.5116699999
Site Type: Apartment Building/Office Building

Affiliation Records:
Site Id: 23839
Affiliation Type: On-Site Operator
Company Name: RED HOOK WEST
Contact Type: Not reported
Contact Name: FUEL OIL REMEDIATION UNIT
Address1: Not reported
Address2: Not reported
City: Not reported

RED HOOK WEST (Continued) U002034225

State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 707-5725
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 1/30/2014

Site Id: 23839
Affiliation Type: Emergency Contact
Company Name: NEW YORK CITY HOUSING AUTHORITY
Contact Type: Not reported
Contact Name: EMERGENCY SERVICES DEPT.
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (718) 707-5900
EMail: Not reported
Fax Number: Not reported
Modified By: bkfalvey
Date Last Modified: 6/1/2009

Site Id: 23839
Affiliation Type: Mail Contact
Company Name: NYC HOUSING AUTHORITY
Contact Type: Not reported
Contact Name: FUEL OIL REMEDIATION COORDINATOR
Address1: 23-02 49TH AVENUE
Address2: TECH SERVS DEPT - 5TH FLOOR
City: LONG ISLAND CITY
State: NY
Zip Code: 11101
Country Code: 001
Phone: (718) 707-5725
EMail: Y.TKACH@NYCHA.NYC.GOV
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 3/25/2014

Site Id: 23839
Affiliation Type: Facility Owner
Company Name: NEW YORK CITY HOUSING AUTHORITY
Contact Type: FUEL OIL REMEDIATION COORDINATOR
Contact Name: Not reported
Address1: 23-02 49TH AVENUE
Address2: Not reported
City: LONG ISLAND CITY
State: NY
Zip Code: 11101
Country Code: 001
Phone: (718) 707-5725
EMail: Not reported
Fax Number: Not reported

RED HOOK WEST (Continued) U002034225

Modified By: NRLOMBAR
Date Last Modified: 2/11/2014

Tank Info:

Tank Number: 001
Tank ID: 48192
Tank Status: Closed - In Place
Material Name: Closed - In Place
Capacity Gallons: 16000
Install Date: 04/01/1996
Date Tank Closed: 05/01/1996
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
F06 - Pipe External Protection - Wrapped
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)

Tank Number: 1
Tank ID: 51203
Tank Status: In Service
Material Name: In Service
Capacity Gallons: 10000
Install Date: 05/01/1996
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Fiberglass coated steel
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: A
Modified By: NRLOMBAR
Last Modified: 12/30/2008

RED HOOK WEST (Continued) U002034225

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
E00 - Piping Secondary Containment - None
G04 - Tank Secondary Containment - Double-Walled (Underground)
F06 - Pipe External Protection - Wrapped
C02 - Pipe Location - Underground/On-ground
F02 - Pipe External Protection - Original Sacrificial Anode
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I02 - Overfill - High Level Alarm
B04 - Tank External Protection - Fiberglass
K01 - Spill Prevention - Catch Basin

SPILLS:

Facility ID: 0506373
Facility Type: ER
DER Facility ID: 227063
Site ID: 351579
DEC Region: 2
Spill Date: 8/23/2005
Spill Number/Closed Date: 0506373 / 8/25/2005
Spill Cause: Equipment Failure
Spill Class: Known release with minimal potential for fire or hazard, DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 2401
Investigator: JAKOLLEE
Referred To: Not reported
Reported to Dept: 8/24/2005
CID: 77
Water Affected: Not reported
Spill Source: Private Dwelling
Spill Notifier: Local Agency
Cleanup Ceased: Not reported
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered in Computer: 8/24/2005
Spill Record Last Update: 8/25/2005
Spiller Name: Not reported
Spiller Company: NYCHA
Spiller Address: CARLTON MANOR HOUSES
Spiller City,St,Zip: ZZ
Spiller Company: 001
Contact Name: FRANK INOA
Contact Phone: (917) 331-0475
DEC Memo: 8/25/05 - Assigned to Kolleeny, as the NYCHA monitor - end8/25/05 - According to Ralph Trocchio of NYCHA, about 50 gallons total spilled from leaking line; 30 gallons onto concrete floor and 20 gallons directly into buckets from leaking line. No drains or sumps were affected; spill on floor was cleaned with speedy dry, which was then put into plastic bags. The bags will be placed in drums and removed for off-site disposal by NYCHA's contractor, Clean Ventures. OK to

RED HOOK WEST (Continued) U002034225

close. - J. Kolleeny 8/25/05

Remarks: 3/8 tubing to boiler failed, casuing 30 gals to spill onto boiler room concrete floor. clean-up is progress.

Material:

Site ID:	351579
Operable Unit ID:	1109081
Operable Unit:	01
Material ID:	2099066
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	30
Units:	Gallons
Recovered:	30
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	9502334
Facility Type:	ER
DER Facility ID:	227063
Site ID:	279621
DEC Region:	2
Spill Date:	5/24/1995
Spill Number/Closed Date:	9502334 / Not Reported
Spill Cause:	Unknown
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	jkkann
Referred To:	IWP APPRVD 7/18/13, SIR DUE 1/19/14
Reported to Dept:	5/24/1995
CID:	Not reported
Water Affected:	GROUNDWATER
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	1
Date Entered In Computer:	5/24/1995
Spill Record Last Update:	7/18/2013
Spiller Name:	Not reported
Spiller Company:	NYC HOUSING AUTHORITY
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	12/20/05: This spill transferred from J.Kolleeny to S.Kraszewski.03/23/06: This spill transferred to K.Tang - SK09/23/10:

RED HOOK WEST (Continued) U002034225

J.Kann - spill transferred from K. Tang to J.Kann. 05/29/12: J.Kann - priority P0 assigned to the site07/18/12 - J.Kann - IWP received on 7/16/12.

Remarks: DURING EXCAVATION FOR TANK REMOVAL, CONTAMINATED SOIL AND GROUNDWATER FOUND.

Material:

Site ID:	279621
Operable Unit ID:	1013396
Operable Unit:	01
Material ID:	367387
Material Code:	0003A
Material Name:	#6 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

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102 ESE 1/4-1/2 0.492 mi. 2599 ft. **RED HOOK WEST -NYCHA** **85 LORRAINE STREET** **NEW YORK CITY, NY** **LTANKS** **S100146725** **N/A**

Relative: Higher

Actual: 9 ft.

LTANKS:

Site ID:	160220
Spill Number/Closed Date:	9011056 / 7/18/2013
Spill Date:	1/17/1991
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	jkkann
Referred To:	Not reported
Reported to Dept:	1/17/1991
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2/1/1991
Spill Record Last Update:	7/19/2013
Spiller Name:	Not reported
Spiller Company:	NYCHA
Spiller Address:	250 BROADWAY
Spiller City,St,Zip:	NEW YORK, NY
Spiller County:	001

RED HOOK WEST -NYCHA (Continued) **S100146725**

Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 135307
DEC Memo: 01/24/06: This spill transferred from J.Kolleeny to S.Kraszewski. One 16K tank installed in 1955 was replaced in 1996 by a 10K tank. The original tank suffered one TTF before it's replacement. The ISRP from June 1996 gave limited information. Some of the soil and GW samples were not analyzed for STARS compounds and some borings were not analyzed. The results indicate a possible gasoline plume in the area. Benzene and MTBE were detected below soil and GW standards. One MW was not drilled down gradient of the tanks to establish a boundary for the plume. Impacts do not seem severe but this area has not been properly delineated. - SK03/14/06: This spill reassigned to K.Tang. - SK09/23/10: J.Kann - spill transferred from K. Tang to J.Kann. 5/29/12: J.kann - priority P0 assigned to site.07/18/12 - J.Kann - IWP received on 7/16/12.7/18/13: J.kann - While reviewing the site file to confirm information for the review of the IWP, it was determined that an investigation is not necessary and the spill can be closed based on the following:1. Only one spill was called in for this site due to a TTF in 1991.2. In 1995 the UST was removed. Soils observed around the tank (J. Healy's notes) showed no visible petroleum contamination, only the presense of coal ash.3. Photos taken in 1995 confirm J. Healy's written observations. No sheen or evidence of petroleum contamination on the water in the tank pit; layers of coal ash only present on the sidewalls.4. Typically when contamination was encountered at NYCHA tank removal/replacements a second spill would be called in. This was not done because it was not warranted.5. An ISRP was performed in 1996. Three borings and one well were installed. Although only one well was installed, and all analysis not performed at every boring location, the visual observations during the tank removal are valuable. Boring logs and well logs indicate "no impacts evident", with the exception of one note in a log that says slight sheen. However, "no odor" or OVA reading were also noted at that point. This point was not near the fill line, and between the tank and the foundation wall. Given all the information available to evaluate site conditions (especially that no impacted soils were observed during the tank removal), this is likely not related to the TTF. NFA.
Remarks: 15K TANK FAILED HORNER EZY CHECK WITH A VISUAL LEAK,LEAK ON MANWAY, WILL EXCAVATE,REPAIR & RETEST.

Material:
Site ID: 160220
Operable Unit ID: 951264
Operable Unit: 01
Material ID: 431160
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: -1
Units: Not reported
Recovered: No
Resource Affected: Not reported
Oxygenate: False

RED HOOK WEST -NYCHA (Continued) **S100146725**

Tank Test:
Site ID: 160220
Spill Tank Test: 1538166
Tank Number: 001
Tank Size: 0
Test Method: 00
Leak Rate: 0
Gross Fail: Not reported
Modified By: Spills
Last Modified: 10/1/2004
Test Method: Unknown

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103 ESE 1/2-1 0.802 mi. 4236 ft. **CHEMTURA 633 COURT STREET** **SHWS** **S113823311**
633 COURT STREET **N/A**
BROOKLYN, NY 11231

Relative: Higher
Actual: 8 ft.

SHWS:
Program: HW
Site Code: 443256
Classification: Significant threat to the public health or environment - action required.
Region: 2
Acres: .503
HW Code: 224146
Record Add: 12/10/2010
Record Upd: 12/02/2013
Updated By: JEBROWN
Site Description: Location:The site is located at 633 Court Street, Kings County, Brooklyn, New York. The facility is located within the Red Hook Industrial area of Brooklyn. The Site is located to the northeast of the Court Street and Halleck Street intersection. The site is immediately bordered to the south by HaBeck Street and Brooklyn Union Gas, to the north by a carting and storage company and to the east by an office and storage building areas. A recreational park (Red Hook Recreational) is located directly across Court Street to the west of the site. Additionally, an oil terminal (Hess Oil Company) is located approximately one block to the south of the site. Site Features:The entire site is completely developed and covered with two connected buildings and a concrete slab. These buildings were formerly used for plant operations.Current Zoning and Land Use:The site is currently active, and is zoned for industrial use.The surrounding parcels are currently used for a combination of commercial, light industrial, utility right-of-ways and recreational purposes. The nearest residential area is less than 0.5 miles to the north. Past Use of the Site:In 1904 the site was used for the manufacturing of tar paper manufacturing. The site was owned by Barrett Manufacturing Company now know as Allied Signal. Tar tanks, storage tanks, stills, a pitch shed and an oil house were located on-site. In the 1940s Doran Manganese Bronze Company, Inc. Foundry & Machine Shop occupied the site. In the 1940s to 1950s, Argus Chemical Laboratory (Argus) purchased and operated on the site (subsequently purchased by Witco in the early 1960s). Under Argus and Witco ownership, the plant produced metallic-organic soaps and salts, barium stearates, phosphites and epoxy plasticizers. During the 1950s and 1960s,

CHEMTURA 633 COURT STREET (Continued) S113828311

aluminum paste was produced in a process on the roof of one of the buildings. This production ceased in the late 1950s to early 1960s and all plant operations were moved to a parcel of land located to the southwest of the 688 Site. The laboratory and offices remained at the 633 Site until approximately 1990 when these functions were moved to 688 Court Street.The site remedial program is being performed by NYS State Superfund Program.Site Geology and Hydrogeology:The site is reclaimed water front along the East River in a heavily industrialize area. Fillmaterial was observed across the site from 0 to 12 ft bgs. The fill material consisted primarily of fine to coarse sand-sized particles with varying amounts of silt and miscellaneous debris (ash, slag, coal, wood, brick, concrete, etc.). Underlying the fill materials, a silt-clay layer was encountered and in turn underlain continuously by Lake Flushing. A clayey layer, a layer of low permeability, has lateral continuity across the site. This layer (former base of the Gowanus Canal) is gray in color and has a minimum average thickness of approximately 8.0 ft. Due to its' lateral continuity beneath the site, the silt-clay layer acts as a low permeability barrier between the overlying fill and the underlying water-bearing zone located within the glacial deposits beneath the site.Based on the manmade coastline (rip-rap, pile sheeting), well gauging data and the generalized hydrogeological cross-sections; varying depths of the silt-clay layer (former base of the Gowanus Canal) have created a horizontal somewhat radial (north, northwest, west, southwest, south) pathway for groundwater flow. To the south and west of the site, the coastline is lined with sheet piling. To the east of the site (point of groundwater entry), the coastline is lined with riprap. The water table underlying the site occurs within the fill material. Depth to water beneath the site has ranged from 2.0 ft to 9.0-ft below ground surface (bgs) over the course of the investigation. Based on the tidal study, water level measurements (high, low and intermediate tide) the site does not appear to be tidally-influenced. The nature of the groundwater is saline, which is a reflection of the site's proximity to the Gowanus Canal.

Env Problem: Nature and Extent of Contamination:Based on investigations conducted to date, the primary contaminants of concern at the site include toluene, ethylbenzene, xylene, carcenogenic PAHs, phenol, and metals. The VOCs: toluene; ethylbenzene and xylene are found in soil from the surface to the water table. Benzene is found at 13 ppm at the center of the site and at 15 ppm at southern boundary of the site. This contamination is above the groundwater protection number of 0.06 parts per million (ppm) for benzene. Carcenogenic PAHs are found throughout site soil. Benzo(a)pyrene is found in concentrations up to 62 ppm which is above the protection of groundwater value of 22 ppm. Metals are found throughout site soil. Lead was as high as 618 ppm, barium was found up to 590 ppm, cadmium was found up to 340 ppm, arsenic was found as high as 14.6 ppm and mercury was found as high as 2.4 ppm. Toluene, ethylbenze, xylene, naphthalene and benzene are found in groundwater at concentrations up to 240, 300, 530, 3,000 and 48 parts per billion (ppb), respectively which are all above the groundwater standards of 5, 5, 5, 10 and 1 ppb, respectively. SVOCs: pyrene and naphthalene are found in groundwater at concentration up to 200 and 6,400 ppb, respectively, which are above the groundwater guidance values of 50 and 10 ppb, respectively.

Health Problem: Direct contact with contaminants in the soil is unlikely because the majority of the site is covered with buildings and pavement. Contaminated groundwater at the site is not used for drinking or

CHEMTURA 633 COURT STREET (Continued) S113828311

other purposes and the site is served by a public water supply that obtains water from a different source not affected by this contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. The potential for soil vapor intrusion to occur at the on-site building exists.

Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	2/15/2013 4:10:00 PM
Record Upd:	4/22/2013 12:46:00 PM
Updated By:	KPSARNOW
Own Op:	Owner
Sub Type:	01
Owner Name:	Alan Hertz
Owner Company:	Alan B. Hertz, P.C.
Owner Address:	934 East 19th Street
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11230
Owner Country:	United States of America
HW Code:	224146
Waste Type:	PHENANTHRENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224146
Waste Type:	ETHYLBENZENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224146
Waste Type:	PYRENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224146
Waste Type:	LEAD
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224146
Waste Type:	NAPHTHALENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224146
Waste Type:	ANTHRACENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224146
Waste Type:	ACENAPHTHENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported

CHEMTURA 633 COURT STREET (Continued) S113828311

HW Code: 224146
Waste Type: ACENAPHTHENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224146
Waste Type: ARSENIC
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224146
Waste Type: POLYCHLORINATED BIPHENYLS (PCB)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224146
Waste Type: BENZO(B)FLUORANTHENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224146
Waste Type: Chrysene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224146
Waste Type: CADMIUM
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224146
Waste Type: BENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224146
Waste Type: XYLENE (MIXED)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224146
Waste Type: MERCURY
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224146
Waste Type: BENZO(A)PYRENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224146
Waste Type: TOLUENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224146
Waste Type: VINYL CHLORIDE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224146
Waste Type: BARIUM
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224146
Waste Type: ACETONE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224146

CHEMTURA 633 COURT STREET (Continued) S113828311

Waste Type: PHENOL
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: V00249
Cross Ref Type Code: 04
Cross Ref Type: VCP Site ID
Record Added Date: 12/28/2012 3:59:00 PM
Record Updated: 12/28/2012 3:59:00 PM
Updated By: KPSARNOW

104
ESE
1/2-1
0.809 mi.
4272 ft.

CHEM TURA
688-700 COURT ST
BROOKLYN, NY 11231

RCRA NonGen / NLR **1001485652**
SHWS **NY0001411404**
CBS UST
MANIFEST
CBS

Relative:
Lower

Actual:
6 ft.

RCRA NonGen / NLR:
Date form received by agency: 10/15/2012
Facility name: CHEM TURA
Facility address: 688-700 COURT ST
BROOKLYN, NY 11231
EPA ID: NY0001411404
Mailing address: BENSON RD
MIDDLEBURY, CT 06749
Contact: PAUL MEYER
Contact address: BENSON RD
MIDDLEBURY, CT 06749
Contact country: US
Contact telephone: (203) 573-3545
Contact email: PAUL.MEYER@CHEMTURA.COM
EPA Region: 02
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: VIP BUILDERS LLC
Owner/operator address: REALTY LLC 400 BROOME ST
NEW YORK, NY 10013
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 03/23/2004
Owner/Op end date: Not reported

Owner/operator name: VIP BUILDERS LLC
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 03/23/2004
Owner/Op end date: Not reported

CHEM TURA (Continued) 1001485652

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 07/18/2012
Facility name: CHEM TURA
Classification: Large Quantity Generator

Date form received by agency: 01/01/2007
Facility name: CHEM TURA
Site name: WITCO CORP
Classification: Not a generator, verified

Date form received by agency: 01/01/2006
Facility name: CHEM TURA
Site name: WITCO CORP
Classification: Not a generator, verified

Date form received by agency: 01/01/2001
Facility name: CHEM TURA
Site name: CK WITCO CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 11/27/1998
Facility name: CHEM TURA
Site name: WITCO CORP
Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:
Waste code: D004
Waste name: ARSENIC

Waste code: D005
Waste name: BARIUM

Waste code: D006
Waste name: CADMIUM

Waste code: D007
Waste name: CHROMIUM

Waste code: D008

CHEM TURA (Continued) 1001485652

Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: D010
Waste name: SELENIUM

Waste code: D013
Waste name: LINDANE

Waste code: D031
Waste name: HEPTACHLOR (AND ITS EPOXIDE).

Waste code: B007
Waste name: B007

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 04/12/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 04/06/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

SHWS:
Program: HW
Site Code: 442980
Classification: Significant threat to the public health or environment - action required.
Region: 2
Acres: 4.375
HW Code: 224145
Record Add: 12/03/2010
Record Upd: 03/27/2013
Updated By: JAQUINN
Site Description: Location:The site is located at 688-700 Court Street within the Red Hook Industrial area of Brooklyn. The site is located southwest of the Court Street and Halleck Street intersection.Site Features:At one point, the main site features included 19 buildings, five designated tank farms and a wastewater pretreatment system. However, the site has been substantially decommissioned. Current Zoning/Use(s):The site is zoned for industrial use, but is currently mostly unoccupied. Some light manufacturing (stone countertops) takes place on site. The surrounding parcels are currently used for a combination of commercial, light industrial and recreational uses. The site is bordered immediately to the east by Court Street, Brooklyn Union Gas and Spentonbush Red Star Companies, to the west by Clinton Street and American Import Export Trucking and to the south by Bryant Street and Hess Oil Company. A recreational park (Red Hook Recreational) is

CHEM TURA (Continued) **1001485652**

located immediately to the north of the site. Past Use of the Site: Milliken Brothers Iron Works occupied the southwestern portion of the site in 1904. The remaining property was occupied by Barrett plant from 1904 to 1949 for the manufacturing of tar paper. In 1939 John F. McKenna, Inc. Lumber Yard, Marine Canvas Supply Corporation and John Menton Boiler Maker occupied the site. The site remained a lumberyard and marine canvas supply business until approximately 1958, when manufacturing at the site began. Historic manufacturing processes at the site include production of metallic-organic soaps and salts, phosphates and epoxy plasticizers. A hot-oil system, that used PCB containing oil, was part of the manufacturing process. Contamination at the site appears related to several historic operations, including materials handling from the tar paper operation and the various manufacturing processes, as well as releases to the environment from the hot oil system. Site Geology and Hydrogeology:The site was formed by backfilling the marsh and waterfront areas of the Gowanus Canal in the late 1800s through the early 1900s. Fill material consisting of fine to coarse sand-sized particles with varying amounts of silt and miscellaneous debris (ash, slag, coal, wood, brick, concrete, etc.) was observed across the site from ground surface to a depth of 12 ft. Underlying the fill materials, a clay layer was encountered with lateral continuity across the site. This layer (former base of the Gowanus Canal) acts as a low permeability barrier between the overlying fill and the underlying water-bearing zone located within the glacial deposits beneath the site.Based on the manmade coastline (rip-rap, pile sheeting), well gauging data and the generalized hydrogeological cross-sections, a horizontal and somewhat radial (north, northwest, west, southwest, south) pathway for groundwater flow exists. Depth to water beneath the site has ranged from 2.0 ft to 9.0-ft bgs over the course of investigation. Groundwater beneath the site does not appear to be tidally influenced.

Env Problem: Nature and Extent of Contamination:Based on investigations conducted to date, the primary contaminants of concern at the site include petroleum related compounds, phenolic compounds, and PCBs.BTEX is found in soil from the ground surface to the water table throughout a significant portion of the site. Xylenes were detected at concentrations up to 560 ppm (UUSCO of 1.6 ppm); benzene was detected as high as 5.3 ppm (UUSCO of 0.06 ppm.) The highest concentrations of xylenes are located at the east side of building 14 and north of building 19. The SVOCs phenol; 2,4-dichlorophenol and naphthalene are found in soil from the ground surface to the water table throughout the center of the site. SVOCs, carcinogenic PAHs and metals related to historic fill are found throughout the site. Carcinogenic PAHs (up to 100 ppm) and metals (4370 ppm for lead; 1420 ppm for Barium and 305 ppm for cadmium) were detected well above UUSCOs. PCBs are found in soil at concentrations as high as 320 ppm. PCB contamination is located near buildings 13 and 14 in the north and northwestern part of the property where the hot oil system was located and operated.Contaminated soil is a source of groundwater contamination. Benzene is found in groundwater above the groundwater standard of 1 ppb at concentrations as high as 3,400 ppb. SVOCs in soil from the use of tar in the manufacturing of tar paper are of a source of groundwater contamination. For example, naphthalene is found in groundwater as high as 5,500 ppb (groundwater standard 10 ppb.)Non-aqueous phase material, in the form of tar and less viscous oil, is found in the environment.

Health Problem: Direct contact with contaminants in the soil is unlikely because the

CHEM TURA (Continued) **1001485652**

majority of the site is covered with buildings and pavement. However, people could come into contact with contaminants if they dig below the ground surface. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. The potential for soil vapor intrusion to occur in the existing buildings will be investigated.

Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Deli:	Not reported
Record Add:	1/10/2011 9:19:00 AM
Record Upd:	1/10/2011 9:19:00 AM
Updated By:	KPSARNOW
Own Op:	Owner
Sub Type:	01
Owner Name:	Spencer Romoff
Owner Company:	Corigin Real Estate Group
Owner Address:	505 Fifth Ave.
Owner Addr2:	Not reported
Owner City,St,Zip:	New York, NY 10017
Owner Country:	United States of America
Own Op:	Owner
Sub Type:	E
Owner Name:	David Podolsky
Owner Company:	VIP Second, LLC
Owner Address:	757 Clinton St
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11231
Owner Country:	United States of America
Own Op:	Owner
Sub Type:	E
Owner Name:	Simmy "Mark" Moskowitz
Owner Company:	Pearl Realty Management
Owner Address:	155 Water St
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11201
Owner Country:	United States of America
HW Code:	224145
Waste Type:	BENZENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224145
Waste Type:	TOLUENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224145
Waste Type:	ACETONE

CHEM TURA (Continued) 1001485652

Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224145
Waste Type:	NAPHTHALENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224145
Waste Type:	PHENOL
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224145
Waste Type:	POLYCHLORINATED BIPHENYLS (PCB)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224145
Waste Type:	XYLENE (MIXED)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	V00249
Cross Ref Type Code:	04
Cross Ref Type:	VCP Site ID
Record Added Date:	12/28/2012 3:58:00 PM
Record Updated:	12/28/2012 3:58:00 PM
Updated By:	KPSARNOW
Crossref ID:	nyd003907367
Cross Ref Type Code:	06
Cross Ref Type:	RCRA EPA ID No.
Record Added Date:	4/1/2011 5:50:00 PM
Record Updated:	4/1/2011 5:53:00 PM
Updated By:	DADESNOY
Crossref ID:	witco chemical corp, crompton corp
Cross Ref Type Code:	27
Cross Ref Type:	Alternate Site Name
Record Added Date:	4/1/2011 5:51:00 PM
Record Updated:	4/1/2011 5:51:00 PM
Updated By:	DADESNOY

CBS UST:

Detail As of 1/1/2012:

Id/Status:	2-000096 / NO LONGER A MAJOR FACILITY
Facility Type:	MANUFACTURING
Facility Tel:	(718) 858-8694
Total Tanks:	0
Region:	STATE
ICS No:	2-500035
PBS No:	Not reported
MOSF No:	Not reported
SPDES No:	Not reported
Town:	NEW YORK CITY
Operator:	WITCO CORPORATION (POLYMER ADD
Emergency Contact:	MARIE PITTIGNANO
Emergency Contact Phone:	(203) 552-2477
Certification Date:	05/12/1999
Expiration Date:	07/07/2001
Owner Name:	CK WITCO
Owner Address:	ONE AMERICAN WAY

CHEM TURA (Continued) 1001485652

Owner City,St,Zip:	BROOKLYN, NY 11231
Owner Phone:	(203) 552-2477
Owner Type:	5
Owner Subtype:	Not reported
Mail To Name:	CK WITCO
Mail To Contact:	MARIE PITTIGNANO
Mail To Address:	ONE AMERICAN WAY
Mail To Address 2:	Not reported
Mail To City,St,Zip:	BROOKLYN, NY 11231
Mail To Telephone:	(203) 552-2477
Tank Number:	F203
Date Entered:	04/26/1995
Capacity:	4000
Chemical:	Benzene,1-methylethyl-
Tank Closed:	12/99
Tank Status:	2
Tank Type:	Steel/carbon steel
Install Date:	06/93
CAS No:	98828
Substance:	Single Hazardous Substance on DEC List
Tank Location:	Outdoors, Belowground
Tank Internal:	1
Tank External:	SACRIFICIAL ANODE
Pipe Location:	Aboveground/Underground Combination
Pipe Internal:	None
Pipe External:	None
Leak Detection:	Interstitial Monitoring
Secondary Containment:	Cut-off Walls
Overfill Protection:	High Level Alarm
Haz Percent:	100
Pipe Containment:	None
Pipe Type:	STEEL/IRON
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	14:34:01
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	40|40|10 / 74|00|13
Renew Date:	04/01/93
Deliquent:	False
Total Capacity:	0
Date Expired:	07/07/95
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	True
Tank Number:	T5016
Date Entered:	07/07/1989
Capacity:	4000

CHEM TURA (Continued) 1001485652

Chemical:	m-Xylene
Tank Closed:	Not reported
Tank Status:	2
Tank Type:	Steel/carbon steel
Install Date:	08/70
CAS No:	108383
Substance:	Not reported
Tank Location:	5
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Leak Detection:	Not reported
Secondary Containmentl:	Vault
Overfill Protection:	Not reported
Haz Percent:	0
Pipe Containment:	Not reported
Pipe Type:	STEEL/IRON
Tank Error Status:	Minor Data Missing
Tank Secret:	False
Date Entered:	12:04:21
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	40|40|10 / 74|00|13
Renew Date:	04/01/93
Deliquent:	False
Total Capacity:	0
Date Expired:	07/07/95
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	True

NY MANIFEST:

EPA ID:	NY0001411404
Country:	USA

Mailing Info:

Name:	CROMPTON CORPORATION
Contact:	MARTIN DONAHUE
Address:	199 BENSON ROAD
City/State/Zip:	WATERBURY, CT 06749
Country:	USA
Phone:	435-655-8110

Document ID:	NJA2782884
Manifest Status:	Not reported
Trans1 State ID:	NYD980769947
Trans2 State ID:	Not reported
Generator Ship Date:	12/11/1998

CHEM TURA (Continued) 1001485652

Trans1 Recv Date:	12/11/1998
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/11/1998
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0001411404
Trans1 EPA ID:	NJD002454544
Trans2 EPA ID:	Not reported
TSDF ID:	00602
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	05123
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	01.00
Year:	98

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD039322250
Trans2 State ID:	MAD039322250
Generator Ship Date:	2012-07-12
Trans1 Recv Date:	2012-07-16
Trans2 Recv Date:	2012-07-16
TSD Site Recv Date:	2012-08-02
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0001411404
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD000816629
Waste Code:	Not reported
Quantity:	2750.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	11.0
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	004816920FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	NJA2783121
Manifest Status:	Not reported

CHEM TURA (Continued) **1001485652**

Trans1 State ID: NYD980769947
Trans2 State ID: Not reported
Generator Ship Date: 05/04/1999
Trans1 Recv Date: 05/04/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 05/04/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NY0001411404
Trans1 EPA ID: NJD002454544
Trans2 EPA ID: Not reported
TSDF ID: 0602
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 05003
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 99

Document ID: NJA2783122
Manifest Status: Not reported
Trans1 State ID: NJD080631369
Trans2 State ID: Not reported
Generator Ship Date: 05/27/1999
Trans1 Recv Date: 05/27/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 05/28/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NY0001411404
Trans1 EPA ID: NJD980536593
Trans2 EPA ID: Not reported
TSDF ID: NJDEP5016
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00313
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D009 - MERCURY 0.2 MG/L TCLP
Quantity: 00005
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 01.00
Year: 99

Document ID: NJA2827742
Manifest Status: Not reported
Trans1 State ID: NJD080631369
Trans2 State ID: Not reported

CHEM TURA (Continued) **1001485652**

Generator Ship Date: 12/28/1999
Trans1 Recv Date: 12/28/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 12/28/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NY0001411404
Trans1 EPA ID: NJD980536593
Trans2 EPA ID: Not reported
TSDF ID: NJDEP5016
Waste Code: D005 - BARIUM 100.0 MG/L TCLP
Quantity: 00400
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D002 - NON-LISTED CORROSIVE WASTES
Quantity: 01800
Units: P - Pounds
Number of Containers: 004
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D005 - BARIUM 100.0 MG/L TCLP
Quantity: 00800
Units: P - Pounds
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Waste Code: D005 - BARIUM 100.0 MG/L TCLP
Quantity: 04800
Units: P - Pounds
Number of Containers: 012
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 99

Document ID: NJA2827742
Manifest Status: Not reported
Trans1 State ID: NJD080631369
Trans2 State ID: Not reported
Generator Ship Date: 12/28/1999
Trans1 Recv Date: 12/28/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 12/28/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NY0001411404
Trans1 EPA ID: NJD980536593
Trans2 EPA ID: Not reported
TSDF ID: NJDEP5016
Waste Code: D005 - BARIUM 100.0 MG/L TCLP
Quantity: 00400

CHEM TURA (Continued) 1001485652

Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D005 - BARIUM 100.0 MG/L TCLP
Quantity:	00450
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	NJA1483383
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Trans2 State ID:	Not reported
Generator Ship Date:	11/05/1999
Trans1 Recv Date:	11/05/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/05/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0001411404
Trans1 EPA ID:	NJD980536593
Trans2 EPA ID:	Not reported
TSDF ID:	083437
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	01350
Units:	P - Pounds
Number of Containers:	002
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	01750
Units:	P - Pounds
Number of Containers:	001
Container Type:	TP - Tanks, portable
Handling Method:	B Incineration, heat recovery, burning
Specific Gravity:	01.00
Year:	99

Document ID:	NJA1483384
Manifest Status:	Not reported
Trans1 State ID:	NJD002454544
Trans2 State ID:	Not reported
Generator Ship Date:	11/05/1999
Trans1 Recv Date:	11/05/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/05/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0001411404

CHEM TURA (Continued) 1001485652

Trans1 EPA ID:	NJD002454544
Trans2 EPA ID:	Not reported
TSDF ID:	2809
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	06211
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	01.00
Year:	99

Document ID:	NJA2575717
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Trans2 State ID:	Not reported
Generator Ship Date:	10/12/1999
Trans1 Recv Date:	10/12/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/12/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0001411404
Trans1 EPA ID:	NJD980536593
Trans2 EPA ID:	Not reported
TSDF ID:	NJDEP5016
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00005
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00110
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00008
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	NJA2673302
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Trans2 State ID:	Not reported
Generator Ship Date:	12/17/1999
Trans1 Recv Date:	12/17/1999

CHEM TURA (Continued) 1001485652

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/17/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0001411404
Trans1 EPA ID:	NJD980536593
Trans2 EPA ID:	Not reported
TSDF ID:	NJDEP5016
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00125
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D005 - BARIUM 100.0 MG/L TCLP
Quantity:	01200
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D003 - NON-LISTED REACTIVE WASTES
Quantity:	00180
Units:	P - Pounds
Number of Containers:	006
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	NJA2673307
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Trans2 State ID:	Not reported
Generator Ship Date:	12/22/1999
Trans1 Recv Date:	12/22/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/22/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0001411404
Trans1 EPA ID:	NJD980536593
Trans2 EPA ID:	Not reported
TSDF ID:	NJDEP5016
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	02400
Units:	P - Pounds
Number of Containers:	006
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	01600
Units:	P - Pounds
Number of Containers:	004

CHEM TURA (Continued) 1001485652

Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Waste Code:	U147 - MALEIC ANHYDRIDE
Quantity:	00100
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	NJA2673308
Manifest Status:	Not reported
Trans1 State ID:	NJD000692061
Trans2 State ID:	Not reported
Generator Ship Date:	12/22/1999
Trans1 Recv Date:	12/22/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/22/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0001411404
Trans1 EPA ID:	NJD002385730
Trans2 EPA ID:	Not reported
TSDF ID:	S71070858
Waste Code:	D005 - BARIUM 100.0 MG/L TCLP
Quantity:	40840
Units:	P - Pounds
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	99

Document ID:	NJA2783066
Manifest Status:	Not reported
Trans1 State ID:	NJD000692061
Trans2 State ID:	Not reported
Generator Ship Date:	12/08/1999
Trans1 Recv Date:	12/08/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/08/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0001411404
Trans1 EPA ID:	NJD002385730
Trans2 EPA ID:	Not reported
TSDF ID:	S7107
Waste Code:	D005 - BARIUM 100.0 MG/L TCLP
Quantity:	05000
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.

CHEM TURA (Continued) 1001485652

Specific Gravity: 01.00
Year: 99

Document ID: NJA2783067
Manifest Status: Not reported
Trans1 State ID: NJD000692061
Trans2 State ID: Not reported
Generator Ship Date: 12/08/1999
Trans1 Recv Date: 12/08/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 12/08/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NY0001411404
Trans1 EPA ID: NJD002385730
Trans2 EPA ID: Not reported
TSDF ID: XS7107
Waste Code: D005 - BARIUM 100.0 MG/L TCLP
Quantity: 05000
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Year: 99

Document ID: NJA2783071
Manifest Status: Not reported
Trans1 State ID: NYD980769947
Trans2 State ID: Not reported
Generator Ship Date: 01/25/1999
Trans1 Recv Date: 01/25/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 01/25/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NY0001411404
Trans1 EPA ID: NJD002454544
Trans2 EPA ID: Not reported
TSDF ID: 00602
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 41520
Units: P - Pounds
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 99

Document ID: NJA2783073
Manifest Status: Not reported
Trans1 State ID: NYD980769947
Trans2 State ID: Not reported
Generator Ship Date: 01/08/1999

CHEM TURA (Continued) 1001485652

Trans1 Recv Date: 01/08/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 01/08/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NY0001411404
Trans1 EPA ID: NJD002454544
Trans2 EPA ID Not reported
TSDF ID: 0602
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 40180
Units: P - Pounds
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 99

Document ID: NJA2783076
Manifest Status: Not reported
Trans1 State ID: NJD080631369
Trans2 State ID: Not reported
Generator Ship Date: 02/02/1999
Trans1 Recv Date: 02/02/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 02/10/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NY0001411404
Trans1 EPA ID: NJD980536593
Trans2 EPA ID: Not reported
TSDF ID: NJDEP5016
Waste Code: D009 - MERCURY 0.2 MG/L TCLP
Quantity: 00005
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 01.00
Year: 99

Document ID: NJA2673289
Manifest Status: Not reported
Trans1 State ID: NJD000692061
Trans2 State ID: Not reported
Generator Ship Date: 10/19/1999
Trans1 Recv Date: 10/19/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 10/19/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NY0001411404
Trans1 EPA ID: NJD980536593
Trans2 EPA ID: Not reported
TSDF ID: S7107

CHEM TURA (Continued) 1001485652

Waste Code:	U002 - ACETONE
Quantity:	00125
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	U404 - TRIETHYLAMINE
Quantity:	00800
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00450
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	03600
Units:	P - Pounds
Number of Containers:	009
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	NJA2673289
Manifest Status:	Not reported
Trans1 State ID:	NJD000692061
Trans2 State ID:	Not reported
Generator Ship Date:	10/19/1999
Trans1 Recv Date:	10/19/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/19/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0001411404
Trans1 EPA ID:	NJD980536593
Trans2 EPA ID:	Not reported
TSDF ID:	S7107
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00800
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	NJA2783093
Manifest Status:	Not reported

CHEM TURA (Continued) 1001485652

Trans1 State ID:	NYD980769947
Trans2 State ID:	Not reported
Generator Ship Date:	02/11/1999
Trans1 Recv Date:	02/11/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	02/11/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0001411404
Trans1 EPA ID:	NJD002454544
Trans2 EPA ID:	Not reported
TSDF ID:	00602
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	40460
Units:	P - Pounds
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	01.00
Year:	99

Click this hyperlink while viewing on your computer to access
110 additional NY_MANIFEST: record(s) in the EDR Site Report.

CBS:

CBS Number:	2-000096
Program Type:	CBS
Facility Status:	Unregulated
Expiration Date:	07/07/2001
Dec Region:	2
UTMX:	584344.69793000
UTMY:	4502565.3476999

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105 ESE 1/2-1 0.870 mi. 4592 ft. — **RED HOOK SMITH STREET**, **627 SMITH ST.**, **BROOKLYN, NY 11231** — **SHWS BROWNFIELDS** — **S112818546** N/A

Relative: Lower
Actual: 2 ft.

SHWS:

Program:	HW
Site Code:	466165
Classification:	N
Region:	2
Acres:	1.040
HW Code:	224163
Record Add:	07/06/2012
Record Upd:	05/24/2013
Updated By:	BXANDERS
Site Description:	See site C224163 Location: The 45,400 square foot site is located at 627-641 Smith Street in the Borough of Brooklyn, Kings County, NY in an urban area.Site Features: The Site currently consists of a vacant 1-story warehouse and an asphalt-paved parking lot. The site warehouse is connected to the warehouse on the lot to the south.Current Zoning/Use(s):The site is currently zoned as M3-1 (manufacturing).Historical Use(s):The Site was occupied by Barrett Manufacturing Company, Storage and Shipping in the early 1900s.

RED HOOK SMITH STREET (Continued) S112818546

Later, Colonial Sand and Stone Company occupied the site in the 1950s. Black Diamond Cargo Line and Pittston Stevedoring Storage occupied the Site from the early 1960?s to the 1990s. The original occupant, Barrett Manufacturing, utilized nine coal tar storage tanks and two gasoline underground storage tanks (USTs) as part of their production of coal tar and roofing material. Additionally, Barrett Manufacturing operations occupied the entire city block west of the site (Block 492). Block 492 currently consists of three Lots: Lot 1, Lot 15, Lot 20. Block 492, Lot 1 is a State Superfund Site: Chemtura 633 Court Street ID No. 224146. Site Geology and Hydrogeology:Soil borings conducted between 2005 and 2012 indicate there are alternating layers of sand and dense clay. Two to four separate aquifers are present at the site, separated by clay confining layers. Groundwater is present at a depth of 2 ? 4 feet below grade.

Env Problem: See site C224163 Nature and Extent of Contamination: Soil ? Coal tar related VOCs and SVOCs are present above Unrestricted Use SCOs. These include naphthalene (7,700 mg/kg), benzo(a)anthracene (280 mg/kg), benzo(a)pyrene (250 mg/kg), and benzo(b)fluoranthene (190 mg/kg). Contaminated soil is present on-site in the vicinity of the former tar storage tanks, and extends to the eastern property boundary, which is bordered by the Gowanus Canal. Additionally, the area of contaminated soil extends off-site to the south, and upgradient to the west. High soil VOCs and SVOCs upgradient and adjacent to Block 492 indicate that Block 492 may be a source of coal tar related VOCs and SVOCs. Groundwater ? VOCs and SVOCs are present above Class GA Standard in twenty monitoring wells. The groundwater plume has not been delineated to the south or to the west.VOC and SVOC contamination extends to the eastern property boundary, which is bordered by the Gowanus Canal. Napthalene is present at a concentration of up to 17,000 ug/l. Benzene is present at a maximum concentration of 11,000 ug/l. Toluene is present at a concentration of up to 7,300 ug/l. Soil Vapor ? Soil vapor samples have not been collected.Significant Threat:No evaluation has been made thus far to determine if the contaminants represent an environmental significant threat.

Health Problem: Not reported
Dump: Not reported
Structure: Not reported
Lagoon: Not reported
Landfill: Not reported
Pond: Not reported
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: Not reported
Record Upd: Not reported
Updated By: Not reported
Own Op: Owner
Sub Type: E
Owner Name: c/o Crown Acquisitions, Inc.
Owner Company: Red Hook Developers Holdings, LLC
Owner Address: 362 Fifth Avenue
Owner Addr2: Suite 1201
Owner City,St,Zip: New York, NY 10001
Owner Country: United States of America
Own Op: Owner

RED HOOK SMITH STREET (Continued) S112818546

Sub Type: E
Owner Name: Not reported
Owner Company: CF Smith, LLC
Owner Address: 404 Fifth Avenue
Owner Addr2: 5th Floor
Owner City,St,Zip: New York, NY 10018
Owner Country: United States of America
HW Code: Not reported
Waste Type: Not reported
Waste Quantity: Not reported
Waste Code: Not reported
Crossref ID: Not reported
Cross Ref Type Code: Not reported
Cross Ref Type: Not reported
Record Added Date: Not reported
Record Updated: Not reported
Updated By: Not reported

BROWNFIELDS:
Program: BCP
Site Code: 476652
Site Description: Location: The Red Hook Smith Street site is located in Brooklyn, an urban area. The site is bounded by Smith Street to the west, the Gowanus Canal to the east and south, and an industrial property to the north. Site Features: The site encompasses anapproximate area of 85,400 square feet. Block 493 (the northern part of the site) is occupied by a vacant one-story warehouse and an asphalt-paved parking lot. The warehouse is connected to the warehouse on the lot to the south (Block 495, Lot 1). Block 495 is occupied by an approximate 40,000-square-foot vacant one-storywarehouse.Current Zoning/Use(s): The site is zoned industrial but is currently vacant.Historical Use(s): Barrett Manufacturing occupied Block 493 from circa 1900 to 1940 and utilized nine coal tar storage tanks and two gasoline underground storage tanks (UST) as part of their production of coal tar and roofing material. Their manufacturing facility also extended to the west of the site (hydraulically up-gradient). Various manufacturing and storage companies occupied Block 495 (the southern part of the site). American Ice Company occupied Block 495 in the early 1900s and Smith Street Dock Corporation and Seaboard Storage occupied lock 495 from around 1930 to 1950. Black Diamond Cargo Line and Pittston Stevedoring Cargo Storage occupied Block 495 from the late 1960s to the 1990s.Site Geology and Hydrogeology: The topography is relatively flat, gently sloping to the east-southeast towards the Gowanus Canal. The site is underlain by a layer of historic urban fill that extends to approximately 12 feet below grade surface (bgs). The historic fill generally consisted of sand, silt, clay, gravel,cobbles, wood and brick fragments, cinder, and ash. The historic fill is underlain by finesands and silts from 2 to 55 feet bgs and stiff clays (potential confining layers) withsome organic materials in lenses at varying depths (8 to 35 feet bgs). Bedrock underlying the site is part of the Hartland Formation comprised of gray, fine to medium-grained biotite-muscovitequartz schist with minor garnet and gray sillimanite-plagioclase-muscovite schist with minor garnet with localized concentrations of granite and intrusions of coarsegrained granitic pegmatite.

Env Problem: Information submitted with the BCP application regarding the environmental condition at the site are currently under review and

RED HOOK SMITH STREET (Continued) — S112818546

Health Problem: will be revised as additional information becomes available Information submitted with the BCP application regarding the conditions at the site are currently under review and will be revised as additional information becomes available.

S106 NNW 1/2-1 0.957 mi. 5053 ft. — **CASTLE WILLIAMS, GOVERNORS ISLAND**, **GOVERNOR'S ISLAND**, **NEW YORK, NY 10004** — SHWS — S113916589, N/A

Site 1 of 2 in cluster S

Relative: Lower

Actual: 5 ft.

SHWS:

Program:	HW
Site Code:	338770
Classification:	N
Region:	2
Acres:	Not reported
HW Code:	231003
Record Add:	11/18/1999
Record Upd:	12/16/2003
Updated By:	kstang
Site Description:	The site did not qualify for addition to the Registry of Inactive Hazardous Waste Sites.
Env Problem:	Not reported
Health Problem:	Not reported
Dump:	Not reported
Structure:	Not reported
Lagoon:	Not reported
Landfill:	Not reported
Pond:	Not reported
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	Not reported
Record Upd:	Not reported
Updated By:	Not reported
Own Op:	Not reported
Sub Type:	Not reported
Owner Name:	Not reported
Owner Company:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Country:	Not reported
HW Code:	Not reported
Waste Type:	Not reported
Waste Quantity:	Not reported
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported

S107 NNW 1/2-1 0.957 mi. 5053 ft. — **FORT JAY DOD GRANT**, **GOVERNORS ISLAND**, **NEW YORK, NY 10004** — SHWS — S111072385, N/A

Site 2 of 2 in cluster S

Relative: Lower

Actual: 5 ft.

SHWS:

Program:	HW
Site Code:	437464
Classification:	A
Region:	2
Acres:	173.000
HW Code:	231069
Record Add:	07/15/2010
Record Upd:	06/10/2013
Updated By:	JBSWARTO
Site Description:	Fort Jay is located on Governors Island between Brooklyn Borough and Manhattan Borough in New York County, New York City, New York. This site is surrounded by an urban setting. The highest point is on the north side of the island at the machine gun range. Parade grounds are located on the northern end of Fort Jay. There is an open lawn area in the center of the island. Many deciduous tress border the edges of the island. The National Park Service currently manages 22 acres of the 173 acres of the island as a National Monument. The Governors Island Preservation and Education Corporation (GIPEC) plans to develop the parkland and waterfront esplanade on the remaining acres. Deed restrictions were created to prohibit permanent housing and casinos on the island. Until the 1960s, this site was used for military purposes which included fort construction, army recruitment and army prison, and supply base for Army ground and air forces. From 1966 to 1996 Governor's Island was used as a Coast Guard facility.A site assessment was completed by the US Army Corps of Engineers in January 2008 under the Military Munitions Response Program. Based on the results, concentrations of various metals were found below the background levels. However, an RI/FS was recommended for munitions and explosives of concern (MEC) for Area of Concern 1 (AOC 1) based on past discoveries of MEC and munitions debris at multiple locations on the island outside of known range areas after it was turned over to the Coast Guard. AOC 1 encompasses about 170 acres (all of the island except for the rifle ranges, machine gun range, and skeet range) and includes the fortifications of Fort Jay/Columbus, Castle Williams, South Battery, Barbette Battery, and Anti-Aircraft Firing Measures. The Army Corps of Engineers will prioritize munitions sites for further investigation once all sites nationally have completed Site Inspections.
Env Problem:	Based on the results of the site characterization, a "No Department of Defense Action Indicated" (NDAI) was designated for the known range areas on the island. However, an RI/FS is recommended for Area of Concern 1 due to munitions concerns.
Health Problem:	Not reported
Dump:	Not reported
Structure:	Not reported
Lagoon:	Not reported
Landfill:	Not reported
Pond:	Not reported
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported

FORT JAY DOD GRANT (Continued) S111072385

Record Add:	Not reported
Record Upd:	Not reported
Updated By:	Not reported
Own Op:	On-Site Operator
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	Governors Island preservation & Education Corporation
Owner Address:	10 South Street
Owner Addr2:	Building Maritime Building, Slip 7
Owner City,St,Zip:	New York, NY 10004
Owner Country:	United States of America
Own Op:	Owner
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	Governors Island Preservation & Education Corporation
Owner Address:	10 South Street
Owner Addr2:	Battery Maritime Building, Slip 7
Owner City,St,Zip:	New York, NY 10004
Owner Country:	United States of America
HW Code:	Not reported
Waste Type:	Not reported
Waste Quantity:	Not reported
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported

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108 East 1/2-1 0.997 mi. 5262 ft. — **CARROLL GARDENS**, **CORNER OF 5TH STREET & SMITH STREET**, **BROOKLYN, NY** — DEL SHWS — S105972444, N/A

Relative: Higher — **Actual: 37 ft.**

DEL SHWS:

Year:	Not reported
Site Code Id:	224012
Site Classification:	D1
Region:	2
Epa Id Number:	Not reported
Site Type - Dump:	No
Site Type - Structure:	No
Site Type - Lagoon:	No
Site Type - Landfill:	No
Site Type - Treat Pond:	No
Site Size (Acres):	6 Acres
Site Size Comment:	Not reported
Period Assoc/HW Start:	Not reported
Period Assoc/HW End:	Not reported
Lat/Long:	40 40' 33 / 73 59' 46
Lat/Long Decimal:	0.00000 / 0.00000
Lat/Long (dms):	0 0 0 / 0 0 0
Hazardous Waste Code:	Not reported
Hazard Waste Disposed:	Not reported
Quantity:	Not reported
Air Data Available:	No

CARROLL GARDENS (Continued) S105972444

SW Std Contravention:	No
GW Std Contravention:	No
Soil Type:	Not reported
Sediment Data Available:	No
GW Std Contravention:	No
DW Std Contravention:	No
SW Std Contravention:	No
Air Stand Contraventions:	No
Legal Action Type:	Not reported
State Legal Action:	No
Federal Legal Action:	No
Enforce Status Code:	Not reported
Remedial Act Proposed:	No
Rem Act Under Design:	No
Rem Act In Progress:	No
Rem Act Completed:	No
Remedial Action Type:	Not reported
Soil Type:	Not reported
Depth To Groundwater:	Not reported
Owner Name:	NYC Department of Real Property
Owner Address:	2 Lafayette Street
Owner City,St,Zip:	New York, NY 10007
Owner Phone:	Not reported
Owner Contact Name:	Not reported
Owner During Disposal:	Not reported
Owner During Use:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City,St,Zip:	Not reported
Operator Phone:	Not reported
Operator Contact Name:	Not reported
Oper During Disposal:	Not reported
Site Type:	Dump
HW Disposal Period:	From: unknown To:
Analytical Data Available:	Groundwater, Surface Water, Soil
Applicable Std Exceeded:	Groundwater, Surface Water
Geotech Info:	Sand and till.
Depth To Groundwater:	Range: 10 to 20 feet.
Status:	Not reported
Nature Of Action:	Not reported
Env Prob Assessment:	Not reported
Site Description:	This site was formerly owned by the Brooklyn Union Gas Company, which operated a coal gasification plant. It is believed that products from previous operations may have been disposed at this site. The site is currently vacant and located in a mixed industrial/residential area. Single family homes and a concrete product manufacturing plant are adjacent to the site. At one time, residential housing was proposed for construction at this location. The lot is littered with debris piles, cinder blocks, old lumber and at least fourteen 55-gallon drums embedded in concrete. The NYSDEC has received the final Phase II site investigation report, but is awaiting the analytical results of the sampling of the 55 gallon drums disposed on site. These drums were sampled separately in December 1990. Analytical data for the 3 drums sampled in 1990 revealed that the waste present in the drums originated from a petroleum hydrocarbon source and is not classified as hazardous waste.
Confirmed HW:	Methylene Chloride: unknown
Environment Assesment:	Environmental problems not established.
Health Assesment:	Not reported

Map ID Direction Distance Elevation	Site		Database(s)	EDR ID Number EPA ID Number
	MAP FINDINGS			
	CARROLL GARDENS (Continued)			**S105972444**
	Disposal Start Date:	Not reported		
	Disposal Term Date:	Not reported		
	Air Violation:	Not reported		
	Groundwater Violation:	Not reported		
	Drink Water Violation:	Not reported		
	Surface Water Violation:	Not reported		
	Legal New York State:	Not reported		
	Legal Federal:	Not reported		
	Legal State:	Not reported		
	Remedial Action Active:	Not reported		
	Remedial Action Done:	Not reported		
	NPL Status:	Not reported		
	Count Operator:	Not reported		
	Count Owner:	Not reported		
	NYTM X:	0		
	NYTM Y:	0		
	Co Name:	Not reported		
	Co Adjr:	Not reported		
	Operator Addr:	Not reported		
	Operator Addr 2:	Not reported		
	Operator Addr 3:	Not reported		
	Operator Addr 4:	Not reported		
	HWDP From:	Not reported		
	From To:	Not reported		
	Assessment of Health:	Not reported		
	Description:	Not reported		
	Env Assessment:	Not reported		
	HW Disposed/Quantity:	Not reported		
	Assess/Env Prog:	Not reported		
	Assess/Health Prob:	Not reported		
	Site Description:	Not reported		

Count: 20 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BROOKLYN	S110049531	NYS DOT BIN 1065390	ROUTE 27 E TELLARY ST RAMP	11201	MANIFEST
BROOKLYN	1010787644	NYSDOT BIN 2067689	RTE 27 OVER 4TH AVE	11215	RCRA-LQG
BROOKLYN	1010787641	NYSDOT BIN 1076750	RTE 27 OVER 17TH ST	11232	RCRA-LQG
BROOKLYN	S107787053	EXIT 34	ROUTE 278 SOUTHBOUND		NY Spills
BROOKLYN	S108906421	BELL ATLANTIC-NY	E 94 ST/BET CLARKSON AVE KINGS		MANIFEST
BROOKLYN	1004571797	COFFEY STREET	32-15 COLLEGE POINT BLVD		ICIS, FINDS
BROOKLYN	S116293576	CON EDISON	CONEY ISLAND & KINGS HWY	11201	MANIFEST
BROOKLYN	S116293566	CON EDISON	KINGS HWY CONEY ISLAND	11201	MANIFEST
BROOKLYN	S107407680	KINGS HIGHWAY MOBIL	KINGS HIGHWAY		NY Spills
BROOKLYN	S106737045	BET/W/AVE X &	KINGS HIGHWAY AVE U		NY Spills
BROOKLYN	1009235114	BP PRODUCTS OF NORTH AMERICA INC	5061 KINGS HIGHWAY SS671	11201	MANIFEST
BROOKLYN	1009238175	CONSOLIDATED EDISON	MH3944S-E 25TH ST & KINGS HWY	11201	MANIFEST
BROOKLYN	S113816641	CON EDISON	NWC KINGS HWY & E 35 ST	11201	MANIFEST
BROOKLYN	1014473075	NYSDOT BIN 1076849	RAMP FROM GOWANUS EXPWY TO RTE	11215	RCRA-LQG
BROOKLYN	1007268397	CON EDISION - MH38210	S/WT KINGS HWY & W 7 ST S/IN	10503	RCRA NonGen / N.L.R. MANIFEST
	S109207895	205842: KINGS HVY	KINGS HWY		NY Spills
NEW YORK	1006817482	NYCTA - 2ND AVE 128TH TO 116TH STR	2ND AVE FROM 128TH-116TH ST.	10035	RCRA-CESQG, MANIFEST
NEW YORK	1001961619	MTA NYCT - 30TH STREET YARD	30TH ST & BETW 11TH & 12TH AVE	10001	RCRA NonGen / N.L.R. MANIFEST
NEW YORK	1009218230	NYSDOT BIN 2267480 D259670 P-X7598	RTE 9A S PROMENADE WEST ST	10004	RCRA NonGen / N.L.R
NEW YORK	1009218229	NYSDOT BIN 2232000 D259670 P-X7598	RTE 9A S PROMENADE BATTERY	10004	RCRA-SQG, MANIFEST, MANIFEST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List
National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: N/A
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 07/08/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/20/2014
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1 Telephone 617-918-1143	EPA Region 6 Telephone: 214-655-6659
EPA Region 3 Telephone 215-814-5418	EPA Region 7 Telephone: 913-551-7247
EPA Region 4 Telephone 404-562-8033	EPA Region 8 Telephone: 303-312-6774
EPA Region 5 Telephone 312-886-6686	EPA Region 9 Telephone: 415-947-4246
EPA Region 10 Telephone 206-553-8665	

Proposed NPL: Proposed National Priority List Sites
A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: N/A
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 07/08/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/20/2014
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens
Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions
The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: N/A
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 07/08/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/20/2014
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 05/29/2014
Number of Days to Update: 94	Next Scheduled EDR Contact: 09/08/2014
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing
A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/31/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/08/2013	Telephone: 703-603-8704
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 07/08/2014
Number of Days to Update: 151	Next Scheduled EDR Contact: 10/20/2014
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned
Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 05/29/2014
Number of Days to Update: 94	Next Scheduled EDR Contact: 09/08/2014
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transportors are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List
A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/19/2014
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 116

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 06/05/2014
Next Scheduled EDR Contact: 09/22/2014
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls
A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/19/2014
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 116

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 06/05/2014
Next Scheduled EDR Contact: 09/22/2014
Data Release Frequency: Varies

LUCIS: Land Use Control Information System
LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2014
Date Data Arrived at EDR: 05/30/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 18

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/19/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/30/2013
Date Data Arrived at EDR: 10/01/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 66

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 07/03/2014
Next Scheduled EDR Contact: 07/14/2014
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Inactive Hazardous Waste Disposal Sites in New York State
Referred to as the State Superfund Program, the Inactive Hazardous Waste Disposal Site Remedial Program is the cleanup program for inactive hazardous waste sites and now includes hazardous substance sites.

Date of Government Version: 05/19/2014
Date Data Arrived at EDR: 05/21/2014
Date Made Active in Reports: 06/10/2014
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 07/17/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Annually

VAPOR REOPENED: Vapor Intrusion Legacy Site List
New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at sites. As a result, all past, current, and future contaminated sites will be evaluated to determine whether these sites have the potential for exposures related to soil vapor intrusion.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 05/22/2014
Date Made Active in Reports: 06/13/2014
Number of Days to Update: 22
Source: Department of Environmental Conservation
Telephone: 518-402-9814
Last EDR Contact: 05/22/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Varies

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Facility Register
Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 04/09/2014
Date Data Arrived at EDR: 04/10/2014
Date Made Active in Reports: 05/07/2014
Number of Days to Update: 27
Source: Department of Environmental Conservation
Telephone: 518-457-2051
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/08/2014
Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LTANKS: Spills Information Database
Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

Date of Government Version: 05/19/2014
Date Data Arrived at EDR: 05/22/2014
Date Made Active in Reports: 06/11/2014
Number of Days to Update: 20
Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 05/22/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Varies

HIST LTANKS: Listing of Leaking Storage Tanks
A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6
Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 05/12/2014
Date Data Arrived at EDR: 05/12/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 36
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/28/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 184
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/02/2014
Next Scheduled EDR Contact: 08/11/2014
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/06/2013
Date Data Arrived at EDR: 11/07/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 29
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/28/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 03/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 42
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/28/2014
Date Data Arrived at EDR: 05/01/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 47
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/14/2014
Date Data Arrived at EDR: 05/15/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 61
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/20/2014
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 04/24/2014
Date Data Arrived at EDR: 04/25/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 53
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/22/2014
Next Scheduled EDR Contact: 08/11/2014
Data Release Frequency: Semi-Annually

State and tribal registered storage tank lists

TANKS: Storage Tank Facility Listing
This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

Date of Government Version: 03/31/2014
Date Data Arrived at EDR: 04/02/2014
Date Made Active in Reports: 05/05/2014
Number of Days to Update: 33

Source: Department of Environmental Conservation
Telephone: 518-402-9543
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Quarterly

UST: Petroleum Bulk Storage (PBS) Database
Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

Date of Government Version: 03/31/2014
Date Data Arrived at EDR: 04/02/2014
Date Made Active in Reports: 05/01/2014
Number of Days to Update: 29

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: No Update Planned

CBS UST: Chemical Bulk Storage Database
Facilities that store regulated hazardous substances in underground tanks of any size

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 10/24/2005
Next Scheduled EDR Contact: 01/23/2006
Data Release Frequency: No Update Planned

MOSF UST: Major Oil Storage Facilities Database
Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: Varies

AST: Petroleum Bulk Storage
Registered Aboveground Storage Tanks.

Date of Government Version: 03/31/2014
Date Data Arrived at EDR: 04/02/2014
Date Made Active in Reports: 05/01/2014
Number of Days to Update: 29

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: No Update Planned

CBS AST: Chemical Bulk Storage Database
Facilities that store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

MOSF AST: Major Oil Storage Facilities Database
Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

CBS: Chemical Bulk Storage Site Listing
These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

Date of Government Version: 03/31/2014
Date Data Arrived at EDR: 04/02/2014
Date Made Active in Reports: 04/29/2014
Number of Days to Update: 27

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Quarterly

MOSF: Major Oil Storage Facility Site Listing
These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 03/31/2014
Date Data Arrived at EDR: 04/02/2014
Date Made Active in Reports: 04/29/2014
Number of Days to Update: 27

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 01/27/2014
Number of Days to Update: 271

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/02/2014
Next Scheduled EDR Contact: 08/11/2014
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 04/24/2014
Date Data Arrived at EDR: 04/25/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 53

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/22/2014
Next Scheduled EDR Contact: 08/11/2014
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 05/12/2014
Date Data Arrived at EDR: 05/12/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 36

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/28/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/14/2014
Date Data Arrived at EDR: 05/15/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 33

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Semi-Annually

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations)

Date of Government Version: 05/07/2014
Date Data Arrived at EDR: 05/09/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 39

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 05/28/2014
Date Data Arrived at EDR: 05/01/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 47

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/04/2014
Date Data Arrived at EDR: 04/08/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 70

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 05/12/2014
Date Data Arrived at EDR: 05/14/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 34

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/08/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Registry of Engineering Controls
Environmental Remediation sites that have engineering controls in place.

Date of Government Version: 05/19/2014
Date Data Arrived at EDR: 05/21/2014
Date Made Active in Reports: 06/10/2014
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 07/17/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Quarterly

INST CONTROL: Registry of Institutional Controls
Environmental Remediation sites that have institutional controls in place.

Date of Government Version: 05/19/2014
Date Data Arrived at EDR: 05/21/2014
Date Made Active in Reports: 06/10/2014
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 07/17/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Quarterly

RES DECL: Restrictive Declarations Listing
A restrictive declaration is a covenant running with the land which binds the present and future owners of the property. As a condition of certain special permits, the City Planning Commission may require an applicant to sign and record a restrictive declaration that places specified conditions on the future use and development of the property. Certain restrictive declarations are indicated by a D on zoning maps.

Date of Government Version: 11/18/2010
Date Data Arrived at EDR: 06/30/2014
Date Made Active in Reports: 07/21/2014
Number of Days to Update: 21

Source: NYC Department of City Planning
Telephone: 212-720-3401
Last EDR Contact: 06/26/2014
Next Scheduled EDR Contact: 10/06/2014
Data Release Frequency: No Update Planned

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 03/20/2014
Date Data Arrived at EDR: 04/01/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 77

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 07/01/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Agreements
New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. The Voluntary Cleanup Program was developed to enhance private sector cleanup of brownfields by enabling parties to remediate sites using private rather than public funds and to reduce the development pressures on "greenfield" sites.

Date of Government Version: 05/19/2014
Date Data Arrived at EDR: 05/21/2014
Date Made Active in Reports: 06/10/2014
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-402-9711
Last EDR Contact: 07/17/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Semi-Annually

State and tribal Brownfields sites

ERP: Environmental Restoration Program Listing
In an effort to spur the cleanup and redevelopment of brownfields, New Yorkers approved a $200 million Environmental Restoration or Brownfields Fund as part of the $1.75 billion Clean Water/Clean Air Bond Act of 1996 (1996 Bond Act). Enhancements to the program were enacted on October 7, 2003. Under the Environmental Restoration Program, the State provides grants to municipalities to reimburse up to 90 percent of on-site eligible costs and 100% of off-site eligible costs for site investigation and remediation activities. Once remediated, the property may then be reused for commercial, industrial, residential or public use.

Date of Government Version: 05/19/2014
Date Data Arrived at EDR: 05/21/2014
Date Made Active in Reports: 06/10/2014
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 07/17/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Quarterly

BROWNFIELDS: Brownfields Site List
A Brownfield is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant.

Date of Government Version: 05/19/2014
Date Data Arrived at EDR: 05/21/2014
Date Made Active in Reports: 06/10/2014
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-402-9764
Last EDR Contact: 07/17/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Semi-Annually

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/20/2014
Date Data Arrived at EDR: 03/20/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 07/03/2014
Next Scheduled EDR Contact: 10/06/2014
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/28/2014
Next Scheduled EDR Contact: 08/11/2014
Data Release Frequency: No Update Planned

SWTIRE: Registered Waste Tire Storage & Facility List
A listing of facilities registered to accept waste tires.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 11/15/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-8694
Last EDR Contact: 07/21/2014
Next Scheduled EDR Contact: 11/03/2014
Data Release Frequency: Annually

SWRCY: Registered Recycling Facility List
A listing of recycling facilities.

Date of Government Version: 04/09/2014
Date Data Arrived at EDR: 04/10/2014
Date Made Active in Reports: 05/07/2014
Number of Days to Update: 27

Source: Department of Environmental Conservation
Telephone: 518-402-8705
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Semi-Annually

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 05/02/2014
Next Scheduled EDR Contact: 08/18/2014
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/28/2014
Date Data Arrived at EDR: 06/20/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 25

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 06/04/2014
Next Scheduled EDR Contact: 09/15/2014
Data Release Frequency: Quarterly

DEL SHWS: Delisted Registry Sites
A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

Date of Government Version: 05/19/2014
Date Data Arrived at EDR: 05/21/2014
Date Made Active in Reports: 06/10/2014
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 07/17/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Annually

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/28/2014
Date Data Arrived at EDR: 06/20/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 25

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 06/04/2014
Next Scheduled EDR Contact: 09/15/2014
Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

HIST UST: Historical Petroleum Bulk Storage Database
These facilities have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. It is no longer updated due to the sensitive nature of the information involved. See UST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

HIST AST: Historical Petroleum Bulk Storage Database
These facilities have petroleum storage capabilities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. No longer updated due to the sensitive nature of the information involved. See AST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

LIENS: Spill Liens Information
Lien information from the Oil Spill Fund.

Date of Government Version: 05/21/2014
Date Data Arrived at EDR: 05/22/2014
Date Made Active in Reports: 06/10/2014
Number of Days to Update: 19

Source: Office of the State Comptroller
Telephone: 518-474-9034
Last EDR Contact: 05/12/2014
Next Scheduled EDR Contact: 08/25/2014
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/31/2014
Date Data Arrived at EDR: 04/01/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 105

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 07/01/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Annually

SPILLS: Spills Information Database
Data collected on spills reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

Date of Government Version: 05/19/2014
Date Data Arrived at EDR: 05/22/2014
Date Made Active in Reports: 06/11/2014
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 05/22/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Varies

HIST SPILLS: SPILLS Database
This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch
Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 11/02/2010
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/07/2013
Number of Days to Update: 63

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 90: SPILLS90 data from FirstSearch
Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 12/14/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/12/2013
Number of Days to Update: 40

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/06/2014
Next Scheduled EDR Contact: 08/18/2014
Data Release Frequency: Varies

DOD: Department of Defense Sites
This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites
The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 02/28/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 55

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 06/04/2014
Next Scheduled EDR Contact: 09/22/2014
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 01/24/2014
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 31

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/30/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Varies

ROD: Records Of Decision
Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/10/2014
Next Scheduled EDR Contact: 09/22/2014
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites
Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/25/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Varies

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 01/30/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 132

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 06/06/2014
Next Scheduled EDR Contact: 09/15/2014
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System
Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/31/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 44

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/30/2014
Next Scheduled EDR Contact: 09/08/2014
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act
Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/25/2014
Next Scheduled EDR Contact: 10/06/2014
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 05/22/2014
Next Scheduled EDR Contact: 09/08/2014
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 05/22/2014
Next Scheduled EDR Contact: 09/08/2014
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 05/06/2014
Date Data Arrived at EDR: 05/16/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 10/09/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2013
Date Data Arrived at EDR: 07/17/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 107

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/22/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 06/05/2014
Next Scheduled EDR Contact: 09/22/2014
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/08/2014
Date Data Arrived at EDR: 04/09/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/10/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/18/2013
Date Data Arrived at EDR: 02/27/2014
Date Made Active in Reports: 03/12/2014
Number of Days to Update: 13

Source: EPA
Telephone: (212) 637-3000
Last EDR Contact: 06/13/2014
Next Scheduled EDR Contact: 09/22/2014
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System
RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans
When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 11/01/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

BRS: Biennial Reporting System
The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/19/2013
Number of Days to Update: 52

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/30/2014
Next Scheduled EDR Contact: 09/08/2014
Data Release Frequency: Biennially

HSWDS: Hazardous Substance Waste Disposal Site Inventory
The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-Registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity. The last version of the study inventory is frozen in time. The sites on the study will not automatically be made Superfund sites, rather each site will be further evaluated for listing on the Registry. So overtime they will be added to the registry or not.

Date of Government Version: 01/01/2003
Date Data Arrived at EDR: 10/20/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 518-402-9564
Last EDR Contact: 05/26/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: No Update Planned

UIC: Underground Injection Control Wells
A listing of enhanced oil recovery underground injection wells.

Date of Government Version: 03/07/2014
Date Data Arrived at EDR: 03/12/2014
Date Made Active in Reports: 04/25/2014
Number of Days to Update: 44

Source: Department of Environmental Conservation
Telephone: 518-402-8056
Last EDR Contact: 06/12/2014
Next Scheduled EDR Contact: 09/22/2014
Data Release Frequency: Quarterly

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 05/01/2014
Date Data Arrived at EDR: 05/07/2014
Date Made Active in Reports: 06/10/2014
Number of Days to Update: 34

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/07/2014
Next Scheduled EDR Contact: 08/18/2014
Data Release Frequency: Annually

DRYCLEANERS: Registered Drycleaners
A listing of all registered drycleaning facilities.

Date of Government Version: 04/17/2014
Date Data Arrived at EDR: 04/18/2014
Date Made Active in Reports: 05/07/2014
Number of Days to Update: 19

Source: Department of Environmental Conservation
Telephone: 518-402-8403
Last EDR Contact: 06/16/2014
Next Scheduled EDR Contact: 09/29/2014
Data Release Frequency: Varies

SPDES: State Pollutant Discharge Elimination System
New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

Date of Government Version: 05/29/2014
Date Data Arrived at EDR: 05/30/2014
Date Made Active in Reports: 08/12/2014
Number of Days to Update: 13

Source: Department of Environmental Conservation
Telephone: 518-402-8233
Last EDR Contact: 05/27/2014
Next Scheduled EDR Contact: 08/11/2014
Data Release Frequency: No Update Planned

AIRS: Air Emissions Data
Point source emissions inventory data.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 11/01/2013
Date Made Active in Reports: 01/09/2014
Number of Days to Update: 69

Source: Department of Environmental Conservation
Telephone: 518-402-8452
Last EDR Contact: 04/28/2014
Next Scheduled EDR Contact: 08/11/2014
Data Release Frequency: Annually

E DESIGNATION: E DESIGNATION SITE LISTING
The (E (Environmental)) designation would ensure that sampling and remediation take place on the subject properties, and would avoid any significant impacts related to hazardous materials at these locations. The (E) designations would require that the fee owner of the sites conduct a testing and sampling protocol, and remediation where appropriate, to the satisfaction of the NYCDEP before the issuance of a building permit by the Department of Buildings pursuant to the provisions of Section 11-15 of the Zoning Resolution (Environmental Requirements). The (E) designations also include a mandatory construction-related health and safety plan which must be approved by NYCDEP.

Date of Government Version: 06/18/2014
Date Data Arrived at EDR: 06/30/2014
Date Made Active in Reports: 07/02/2014
Number of Days to Update: 2

Source: New York City Department of City Planning
Telephone: 718-595-6858
Last EDR Contact: 06/20/2014
Next Scheduled EDR Contact: 10/06/2014
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations
This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing
The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 07/21/2014
Next Scheduled EDR Contact: 11/03/2014
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial assurance information.

Date of Government Version: 04/09/2014
Date Data Arrived at EDR: 04/11/2014
Date Made Active in Reports: 05/07/2014
Number of Days to Update: 26

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List
The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/16/2014
Next Scheduled EDR Contact: 08/25/2014
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 01/29/2013
Date Data Arrived at EDR: 02/14/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/01/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites
A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a throat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 04/15/2013
Date Data Arrived at EDR: 07/03/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 72

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 07/01/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Quarterly

FEDLAND: Federal and Indian Lands
Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: N/A

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)
The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/23/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 30

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/25/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/23/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 30

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/25/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Annually

US FIN ASSUR: Financial Assurance Information
All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 02/25/2014
Date Data Arrived at EDR: 02/27/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 41

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 05/16/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Quarterly

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/01/2013
Date Data Arrived at EDR: 12/05/2013
Date Made Active in Reports: 02/17/2014
Number of Days to Update: 74

Source: Department of Environmental Conservation
Telephone: 518-402-8712
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 05/02/2014
Next Scheduled EDR Contact: 08/11/2014
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/11/2014
Next Scheduled EDR Contact: 09/22/2014
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Site Listing
A listing of coal ash disposal site locations.

Date of Government Version: 04/09/2014
Date Data Arrived at EDR: 04/11/2014
Date Made Active in Reports: 05/07/2014
Number of Days to Update: 26

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Varies

COAL ASH DOE: Steam-Electric Plan Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Varies

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 05/16/2014
Next Scheduled EDR Contact: 08/25/2014
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/10/2014
Number of Days to Update: 193

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

CORTLAND COUNTY:

Cortland County Storage Tank Listing

A listing of aboveground storage tank sites located in Cortland County.

Date of Government Version: 05/30/2014
Date Data Arrived at EDR: 05/30/2014
Date Made Active in Reports: 06/13/2014
Number of Days to Update: 14

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 05/05/2014
Next Scheduled EDR Contact: 08/18/2014
Data Release Frequency: Quarterly

Cortland County Storage Tank Listing

A listing of underground storage tank sites located in Cortland County.

Date of Government Version: 05/30/2014
Date Data Arrived at EDR: 05/30/2014
Date Made Active in Reports: 06/13/2014
Number of Days to Update: 14

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 05/05/2014
Next Scheduled EDR Contact: 08/18/2014
Data Release Frequency: Quarterly

NASSAU COUNTY:

Registered Tank Database

A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 11/20/2013
Date Data Arrived at EDR: 11/22/2013
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 81

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 07/07/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 05/05/2014
Next Scheduled EDR Contact: 08/18/2014
Data Release Frequency: Varies

Registered Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 11/20/2013
Date Data Arrived at EDR: 11/22/2013
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 81

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 07/07/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 05/05/2014
Next Scheduled EDR Contact: 08/18/2014
Data Release Frequency: Varies

ROCKLAND COUNTY:

Petroleum Bulk Storage Database
A listing of aboveground storage tank sites located in Rockland County.

Date of Government Version: 03/14/2014
Date Data Arrived at EDR: 03/14/2014
Date Made Active in Reports: 05/07/2014
Number of Days to Update: 54

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 06/09/2014
Next Scheduled EDR Contact: 09/22/2014
Data Release Frequency: Quarterly

Petroleum Bulk Storage Database
A listing of underground storage tank sites located in Rockland County.

Date of Government Version: 03/14/2014
Date Data Arrived at EDR: 03/14/2014
Date Made Active in Reports: 05/07/2014
Number of Days to Update: 54

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 06/09/2014
Next Scheduled EDR Contact: 09/22/2014
Data Release Frequency: Quarterly

SUFFOLK COUNTY:

Storage Tank Database
A listing of aboveground storage tank sites located in Suffolk County.

Date of Government Version: 01/30/2014
Date Data Arrived at EDR: 02/28/2014
Date Made Active in Reports: 04/03/2014
Number of Days to Update: 34

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 05/05/2014
Next Scheduled EDR Contact: 08/18/2014
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of underground storage tank sites located in Suffolk County.

Date of Government Version: 01/30/2014
Date Data Arrived at EDR: 02/28/2014
Date Made Active in Reports: 04/03/2014
Number of Days to Update: 34

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 05/05/2014
Next Scheduled EDR Contact: 08/18/2014
Data Release Frequency: No Update Planned

WESTCHESTER COUNTY:

Listing of Storage Tanks
A listing of aboveground storage tank sites located in Westchester County.

Date of Government Version: 03/18/2014
Date Data Arrived at EDR: 03/20/2014
Date Made Active in Reports: 04/25/2014
Number of Days to Update: 36

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 05/05/2014
Next Scheduled EDR Contact: 08/18/2014
Data Release Frequency: Varies

Listing of Storage Tanks
A listing of underground storage tank sites located in Westchester County.

Date of Government Version: 03/18/2014
Date Data Arrived at EDR: 03/20/2014
Date Made Active in Reports: 04/25/2014
Number of Days to Update: 36

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 05/05/2014
Next Scheduled EDR Contact: 08/18/2014
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specially databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/23/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/17/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2012	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/24/2013	Telephone: 717-783-8990
Date Made Active in Reports: 08/19/2013	Last EDR Contact: 07/18/2014
Number of Days to Update: 26	Next Scheduled EDR Contact: 11/03/2014
	Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2012	Source: Department of Environmental Management
Date Data Arrived at EDR: 06/21/2013	Telephone: 401-222-2797
Date Made Active in Reports: 08/05/2013	Last EDR Contact: 05/27/2014
Number of Days to Update: 45	Next Scheduled EDR Contact: 09/08/2014
	Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 03/27/2014	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 06/12/2014	Telephone: 802-241-3443
Date Made Active in Reports: 07/17/2014	Last EDR Contact: 07/21/2014
Number of Days to Update: 35	Next Scheduled EDR Contact: 11/03/2014
	Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 08/09/2013	Telephone: N/A
Date Made Active in Reports: 09/27/2013	Last EDR Contact: 06/16/2014
Number of Days to Update: 49	Next Scheduled EDR Contact: 09/29/2014
	Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Providers
Source: Department of Health
Telephone: 212-676-2444

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

430-432 VAN BRUNT STREET
430-432 VAN BRUNT ST
BROOKLYN, NY 11231

TARGET PROPERTY COORDINATES

Latitude (North):	40.6756 - 40' 40' 32.16"
Longitude (West):	74.0153 - 74' 0' 55.08"
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	583222.3
UTM Y (Meters):	4503001.5
Elevation:	8 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	40074-F1 JERSEY CITY, NJ NY
Most Recent Revision:	1981
East Map:	40073-F8 BROOKLYN, NY
Most Recent Revision:	1995

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

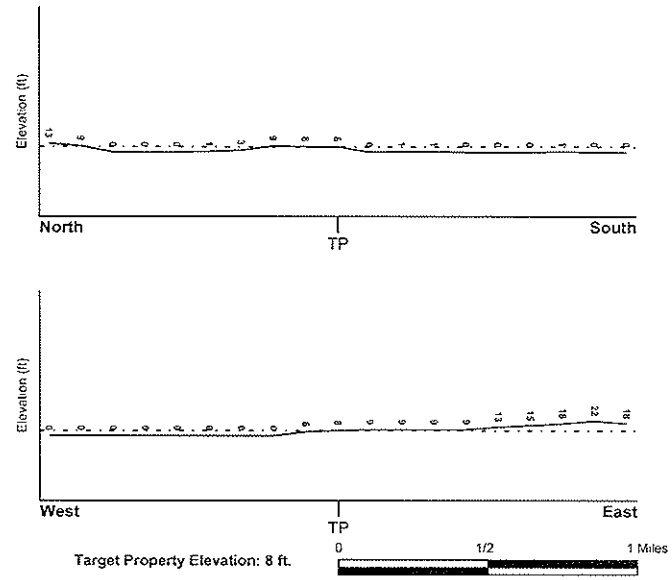
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
KINGS, NY	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 360497 - FEMA DFIRM Flood data

Additional Panels in search area:
3604970062B - FEMA Q3 Flood data
3604970063B - FEMA Q3 Flood data
3604970072B - FEMA Q3 Flood data
3604970073B - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
JERSEY CITY	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Location Relative to TP:	1 - 2 Miles NNW
Site Name:	SUPPORT CENTER - GOVERNOR'S ISLAND
Site EPA ID Number:	NY5690319889
Groundwater Flow Direction:	GENERALLY SSW.
Measured Depth to Water:	not available.
Hydraulic Connection:	Detailed hydraulic connection information is not available.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information is inferred in the CERCLIS investigation report(s)

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1990 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s) which were compiled under a Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Mesozoic
System:	Cretaceous
Series:	Upper Cretaceous
Code:	uK *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	URBAN LAND
Soil Surface Texture:	variable
Hydrologic Group:	Not reported
Soil Drainage Class:	Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	Not Reported
Depth to Bedrock Min:	> 10 inches
Depth to Bedrock Max:	> 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam
loamy sand
sandy loam
fine sandy loam

Surficial Soil Types: silt loam
loamy sand
sandy loam
fine sandy loam

Shallow Soil Types: sandy loam

Deeper Soil Types: unweathered bedrock
very gravelly - loamy sand
stratified
sandy loam

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000828171	1/8 - 1/4 Mile ESE
2	USGS40000828353	1/8 - 1/4 Mile NNW
3	USGS40000828275	1/4 - 1/2 Mile East
A4	USGS40000828200	1/2 - 1 Mile East
A5	USGS40000828254	1/2 - 1 Mile East
B6	USGS40000828453	1/2 - 1 Mile NE
7	USGS40000828339	1/2 - 1 Mile ENE
B8	USGS40000828462	1/2 - 1 Mile NE
9	USGS40000828002	1/2 - 1 Mile SE
C10	USGS40000828193	1/2 - 1 Mile East
C11	USGS40000828183	1/2 - 1 Mile East
12	USGS40000828452	1/2 - 1 Mile NE
13	USGS40000828410	1/2 - 1 Mile ENE
14	USGS40000828559	1/2 - 1 Mile NE
15	USGS40000828265	1/2 - 1 Mile East

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 4017064.2s

- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: 430-432 Van Brunt Street ADDRESS: 430-432 VAN BRUNT ST Brooklyn NY 11231 LAT/LONG: 40.6756 / 74.0153	CLIENT: PT Consultants, Inc. CONTACT: Denis Cummings INQUIRY #: 4017064.2s DATE: July 25, 2014 8:39 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
1 **ESE** **1/8 - 1/4 Mile** **Lower**		**FED USGS**	**USGS40000828171**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404028074004901		
Monloc name:	K 1900. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6745476
Longitude:	-74.0131953	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	10.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	135
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

2 **NNW** **1/8 - 1/4 Mile** **Higher**		**FED USGS**	**USGS40000828353**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404044074010001		
Monloc name:	K 705. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.678992
Longitude:	-74.0162509	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	10.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	151
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

3
East
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000828275**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404035074003001		
Monloc name:	K 704. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6764921
Longitude:	-74.0079174	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	7.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	130
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

A4
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000828200**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404031074001501		
Monloc name:	K 700. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.675381
Longitude:	-74.0037506	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	6.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	116
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

A5
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000828254**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404032074001401		
Monloc name:	K 1069. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6756588
Longitude:	-74.0034728	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	11.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	60
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 55

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1980-03-13		1.31	1979-12-18		2.00
1979-09-17		1.80	1979-06-28		2.50
1979-03-26		1.89	1978-12-22		1.49
1978-10-02		1.88	1978-06-23		2.80
1978-04-04		2.97	1978-01-03		2.73
1977-10-13		2.65	1977-07-07		2.34
1977-03-28		1.43	1976-12-22		1.84
1976-09-23		2.10	1976-06-28		2.40
1976-03-23		2.35	1975-12-30		2.33
1975-10-08		2.57	1975-06-30		2.29
1975-03-26		2.27	1974-12-20		2.38
1974-09-05		2.44	1973-10-02		2.57
1973-07-09		0.23	1973-04-03		0.56
1972-12-27		1.07	1972-10-03		0.50
1972-07-11		0.30	1972-03-28		0.90
1972-01-13		1.86	1971-09-27		2.81
1971-03-08		2.01	1970-10-30		1.94
1970-03-13		1.75	1969-11-10		0.99
1969-09-03		1.05	1968-11-06		1.43

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1968-04-23		1.43	1967-10-23		1.46
1967-03-29		1.61	1966-10-25		-0.78
1966-05-04		1.46	1965-10-27		1.59
1965-09-14		1.72	1965-05-04		1.86
1964-11-02		1.28	1964-04-23		1.32
1963-04-25		1.75	1961-12-28		1.76
1960-09-09		0.73	1960-01-11		0.82
1954-12-17		0.06	1953-12-23		-0.11
1953-01-15		-0.34			

B6
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000828453**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404055074002601		
Monloc name:	K 1191. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6820475
Longitude:	-74.0068062	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	60
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

7
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000828339**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404041074001401		
Monloc name:	K 703. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6781587
Longitude:	-74.0034728	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	16.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	138
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

B8
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000828462**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404056074002501		
Monloc name:	K 1190. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6823253
Longitude:	-74.0065284	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	10.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	65
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

9
SE
1/2 - 1 Mile
Lower

FED USGS **USGS40000828002**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404006074002701		
Monloc name:	K 701. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6684367
Longitude:	-74.007084	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifermame:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	83
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

C10
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000828193**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc identifier:	USGS-404030074000701		
Monloc name:	K 1091. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6751032
Longitude:	-74.0015283	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	11.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifermame:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	124
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

C11
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000828183**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc identifier:	USGS-404029074000601		
Monloc name:	K 720. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6748255
Longitude:	-74.0012505	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	13.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifermame:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	103
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

12
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000828452**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc identifier:	USGS-404055074001101		
Monloc name:	K 1192. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6820475
Longitude:	-74.0026394	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	30.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifermame:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	112
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

13
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000828410**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc identifier:	USGS-404049074000101		
Monloc name:	K 669. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6803809
Longitude:	-73.9998616	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	48.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	182
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

14
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000828559**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404111074002001		
Monloc name:	K 1561. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6864919
Longitude:	-74.0051395	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	5.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	60
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

15
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000828265**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404033073595001		
Monloc name:	K 1536. 1		
Monloc type:	Well		
Monloc desc:	5001		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6759366
Longitude:	-73.9968059	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	14.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	156
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for KINGS County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for KINGS COUNTY, NY

Number of sites tested: 51

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	0.750 pCi/L	100%	0%	0%
Basement	1.370 pCi/L	88%	10%	2%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

New York Public Water Wells
Source: New York Department of Health
Telephone: 518-458-6731

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database
Department of Environmental Conservation
Telephone: 518-402-8072
These files contain records, in the database, of wells that have been drilled.

RADON

State Database: NY Radon
Source: Department of Health
Telephone: 518-402-7556
Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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APPENDIX 6
LOCAL ZONING RECORDS

NYC Buildings

NYC

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NYC Department of Buildings

Property Profile Overview

430 VAN BRUNT STREET — **BROOKLYN 11231** — **BIN# 3846916**

VAN BRUNT STREET 430 - 430

Health Area	: 4100	**Tax Block**	: 603
Census Tract	: 53	**Tax Lot**	: 23
Community Board	: 306	**Condo**	: NO
		Vacant	: YES

View DCP Addresses... Browse Block

View Zoning Documents | View Challenge Results | Pre - BIS PA | View Certificates of Occupancy

Cross Street(s):	VAN DYKE STREET, BEARD STREET		
DOB Special Place Name:			
DOB Building Remarks:			
Landmark Status:		**Special Status:**	N/A
Local Law:	NO	**Loft Law:**	NO
SRO Restricted:	NO	**TA Restricted:**	NO
UB Restricted:	NO		
Environmental Restrictions:	HAZMAT	**Grandfathered Sign:**	NO
Legal Adult Use:	NO	**City Owned:**	NO
Additional BINs for Building:	NONE		

Special District: MX-5 - MIXED USE-5 (RED HOOK, BK)

This property is not located in an area that may be affected by Tidal Wetlands, Freshwater Wetlands, or Coastal Erosion Hazard Area. Click here for more information

Department of Finance Building Classification: V1-VACANT LAND

Please Note: The Department of Finance's building classification information shows a building's tax status, which may not be the same as the legal use of the structure. To determine the legal use of a structure, research the records of the Department of Buildings.

	Total	Open
Complaints	4	0
Violations-DOB	6	6
Violations-ECB (DOB)	6	5

This property has 3 open DOB and 2 open ECB "Work Without A Permit" Violations and may be subject to DOB civil penalties upon application for a permit. After obtaining the permit, a certificate of correction must be filed on the ECB violations.

Jobs/Filings	0
ARA / LAA Jobs	0
Total Jobs	0
Actions	6

OR Enter Action Type:

OR Select from List: Select...

AND Show Actions

- Elevator Records
- Electrical Applications
- Permits In-Process / Issued
- Illuminated Signs Annual Permits
- Plumbing Inspections
- Open Plumbing Jobs / Work Types
- Facades
- Marquee Annual Permits
- Boiler Records
- DEP Boiler Information
- Crane Information
- After Hours Variance Permits

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Actions

Premises: 430 VAN BRUNT STREET BROOKLYN BIN: 3846916 Block: 603 Lot: 23

NUMBER	TYPE	FILE DATE
ALT 3693/53	ALTERATION	08/18/1953
BN 1093/50	BUILDING NOTICE	02/05/1950
DEM 73/32	DEMOLITION	04/12/1932
NB 36/52	NEW BUILDING	01/16/1952
PRS 3881/49	PLUMBING REPAIR SLIP	12/29/1949
PRS 5374/53	PLUMBING REPAIR SLIP	12/30/1953
V 072497C06SC01	DOB VIOLATION - ACTIVE	07/24/1997
VW 072497C06SC02	VIOLATION WORK WITHOUT PERMIT - ACTIVE	07/24/1997
V 112597C06M01	DOB VIOLATION - ACTIVE	11/25/1997
V 090198C06HS02	DOB VIOLATION - ACTIVE	09/01/1998
VW 051299C06M02	VIOLATION WORK WITHOUT PERMIT - ACTIVE	05/12/1999
VW 050901C06MC05	VIOLATION WORK WITHOUT PERMIT - ACTIVE	05/09/2001
VECB 090198C06HS02	ECB VIOLATION - ACTIVE	09/01/1998
VECB 072497C06SC01	ECB VIOLATION - ACTIVE	07/24/1997
VECB 072497C06SC02	ECB VIOLATION - ACTIVE	07/24/1997
VECB 112597C06M01	ECB VIOLATION - ACTIVE	11/25/1997
VECB 050901C06MC05	ECB VIOLATION - ACTIVE	05/09/2001
VEC* 121009E2321C02	ECB VIOLATION DISMISSED	12/10/2009

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

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NYC Department of Buildings

DOB Violation Display for 072497C06SC01

Premises: 430 VAN BRUNT STREET BROOKLYN **BIN: 3846916** **Block: 603** **Lot: 23**

Issue Date:	07/24/1997	**Violation Category:**	V - DOB VIOLATION - ACTIVE
Violation Type:	C - CONSTRUCTION		
Violation Number:	06SC01	**Device No.:**	
ECB No.:	34160291N (refer to for further details)		
Description:	OCCUPANCY CONTRARY TO THAT ALLOWED BY BUILDING DEPT RECORDS: IN THAT DEMO NUMBER 73 OF 1A32 INDICATES A VACANT LOT, CURRENT USE HAS BEEN CHANGED TO USE GROUP 16 OCCUPANCY GROUPD B2-DEAD STORAGE OF APROXIMATE LY 3 TRACTOR TRAILORS AND 3 LARGE COMMERCIAL TRUCKS REMEDY: DISCONTINUE ILLEGAL USE		

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

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NYC Department of Buildings

DOB Violation Display for 072497C06SC02

Premises: 430 VAN BRUNT STREET BROOKLYN **BIN: 3846916 Block: 603 Lot: 23**

Issue Date:	07/24/1997	**Violation Category:**	VW - VIOLATION WORK WITHOUT PERMIT - ACTIVE
Violation Type:	C - CONSTRUCTION		
Violation Number:	06SC02	**Device No.:**	
ECB No.:	34160292P (refer to for further details)		
Description:	WORK WITHOUT A PERMIT. WORK NOTED: HAVING CONSTRUCTED A 20'X30' CARPORT MADE OUT OF WOOD AND SHEET METAL, HOUSING A LARGE TRUCK REMEDY: FILE PLANS AND OBTAIN A PERMIT IF FEASIBLE.OR REATORE TO PRIOR LEGAL CONDITION		

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

NYC Buildings

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NYC Department of Buildings

ECB Violation Details

Premises: 430 VAN BRUNT STREET BROOKLYN

Filed At: 430 VAN BRUNT STREET , BROOKLYN , NY 11231

BIN: 3846916 **Block:** 603 **Lot:** 23

Community Board: 306

ECB Violation Summary

VIOLATION OPEN

ECB Violation Number: 34162147H

Severity: NON-HAZARDOUS

Certification Status: NO COMPLIANCE RECORDED

Hearing Status: WRITTEN OFF

Penalty Balance Due: $0.00

Respondent Information

Name: OWNER OF

Mailing Address: 430 VAN BRUNT STREET , BROOKLYN , NY 11231

Violation Details

Violation Date: 11/25/1997

Violation Type: CONSTRUCTION

Served Date: 01/16/1998

Inspection Unit:

Infraction Codes	Section of Law	Standard Description
B03	27-217	OCCUPANCY CONTRARY TO THAT ALLOWED BY THE C OF O BLDG DEPT RECORDS

Specific Violation Condition(s) and Remedy:

OCCUPANCY CONTRARY TO THAT ALLOWED BY THE DEPARTMENT OF BUILDING RECORDS. DEMO # 73/32 INDICATES A VACANT LOT NOW USE AS STORAGE OF TRUCKS (7). REMEDY: AMEND C OF O OR OBTAIN VALID C OF O.

Issuing Inspector ID: 0427

DOB Violation Number: 112597C06M01

Issued as Aggravated Level: NO

Dept. of Buildings Compliance Information

Certification Status: NO COMPLIANCE RECORDED

Compliance On:

A Certificate of Correction must be submitted to the Administrative Enforcement Unit (AEU) for all violations. A violation that is not dismissed by ECB will continue to remain ACTIVE or "open" on DOB records until acceptable proof is submitted to the AEU, even if you have paid the penalty imposed by ECB.

ECB Hearing Information

Hearing Status: WRITTEN OFF

ECB Penalty Information

Penalty Imposed:	$2,500.00
Adjustments:	$-2,500.00
Amount Paid:	$0.00
Penalty Balance Due:	$0.00
Court Docket Date:	07/31/1998

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

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NYC Department of Buildings

DOB Violation Display for 090198C06HS02

Premises: 430 VAN BRUNT STREET BROOKLYN **BIN: 3846916** **Block: 603** **Lot: 23**

Issue Date:	09/01/1998	**Violation Category:**	V - DOB VIOLATION - ACTIVE
Violation Type:	C - CONSTRUCTION		
Violation Number:	06HS02	**Device No.:**	
ECB No.:	34183570H (refer to for further details)		
Description:			

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

CLICK HERE TO SIGN UP FOR BUILDINGS NEWS

NYC Department of Buildings

ECB Violation Details

Premises: 430 VAN BRUNT STREET BROOKLYN
Filed At: 430 VAN BRUNT STREET , BROOKLYN , NY 11231
BIN: 3846916 **Block:** 603 **Lot:** 23
Community Board: 306

ECB Violation Summary

VIOLATION OPEN

ECB Violation Number: 34183570H

Severity: NON-HAZARDOUS

Certification Status: NO COMPLIANCE RECORDED
Hearing Status: WRITTEN OFF
Penalty Balance Due: $0.00

Respondent Information

Name: PACE PAT
Mailing Address: 310 RICHMONDE HILL RD , SI , NY 10314

Violation Details

Violation Date: 09/01/1998
Violation Type: CONSTRUCTION
Served Date: 09/17/1998
Inspection Unit:

Infraction Codes	Section of Law	Standard Description
B03	27-217	OCCUPANCY CONTRARY TO THAT ALLOWED BY THE C OF O BLDG DEPT RECORDS

Specific Violation Condition(s) and Remedy:

OCCUPANCY CONTRARY TO BUILDING DEPARTMENT RECORDS VACANT LOT BEING USED FOR TRUCK STORAGE BUILDING DEPT RECORDS INDICATES DEMO #73/32 VACANT LOT PLATES STORED ON LOT

Issuing Inspector ID: 1058
DOB Violation Number: 090198C06HS02
Issued as Aggravated Level: NO

Dept. of Buildings Compliance Information

Certification Status: NO COMPLIANCE RECORDED
Compliance On:

A Certificate of Correction must be submitted to the Administrative Enforcement Unit (AEU) for all violations. A violation that is not dismissed by ECB will continue to remain ACTIVE or "open" on DOB records until acceptable proof is submitted to the AEU, even if you have paid the penalty imposed by ECB.

ECB Hearing Information

Hearing Status: WRITTEN OFF

ECB Penalty Information

Penalty Imposed:	$2,500.00
Adjustments:	$2,500.00
Amount Paid:	$0.00
Penalty Balance Due:	$0.00
Court Docket Date:	05/31/1999

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

CLICK HERE TO SIGN UP FOR BUILDINGS NEWS

NYC Department of Buildings

DOB Violation Display for 051299C06M02

Premises: 430 VAN BRUNT STREET BROOKLYN **BIN: 3846916** **Block: 603** **Lot: 23**

Issue Date:	05/12/1999	**Violation Category:**	VW - VIOLATION WORK WITHOUT PERMIT - ACTIVE
Violation Type:	C - CONSTRUCTION		
Violation Number:	06M02	**Device No.:**	
ECB No.:	34209743J (refer to for further details)		
Description:	WORK WITHOUT A PERMIT:HAVING CONST'D A 20'X30'CARPORT MADE OUT OF WOOD AND METAL.HOUSING A LARGE TRUCK REMEDY:OBTAIN PERMIT OR REMOVE CARPORT		

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

CLICK HERE TO SIGN UP FOR BUILDINGS NEWS

NYC Department of Buildings

ECB Violation Details

Premises: 430 VAN BRUNT STREET BROOKLYN
Filed At: 430 VAN BRUNT STREET , BROOKLYN , NY 11231
BIN: 3846916 **Block:** 603 **Lot:** 23
Community Board: 306

ECB Violation Summary

VIOLATION OPEN

ECB Violation Number: 34290808M

Severity: NON-HAZARDOUS

Certification Status: NO COMPLIANCE RECORDED
Hearing Status: WRITTEN OFF
Penalty Balance Due: $0.00

Respondent Information

Name: OWNER OF
Mailing Address: 430 VAN BRUNT STREET , BK , NY 11231

Violation Details

Violation Date: 05/09/2001
Violation Type: CONSTRUCTION
Served Date: 05/09/2001
Inspection Unit:

Infraction Codes	Section of Law	Standard Description
B04	27-147	WORK WITHOUT A PERMIT

Specific Violation Condition(s) and Remedy:

WORK WITHOUT A PERMIT:WORK NOTED.HAVING CONSTRUCTED A 20'X30'CARPORT MADE OUT OF WOOD AND METAL.HOUSING A LARGE COMMERCIAL TRUCK.REMEDY:FILE PLANS AND OBTAIN A PERMIT IF FEASIBLE OR RESTORE TO PRIOR.

Issuing Inspector ID:
DOB Violation Number: 050901C06MC05
Issued as Aggravated Level: NO

Dept. of Buildings Compliance Information

Certification Status: NO COMPLIANCE RECORDED
Compliance On:

A Certificate of Correction must be submitted to the Administrative Enforcement Unit (AEU) for all violations. A violation that is not dismissed by ECB will continue to remain ACTIVE or "open" on DOB records until acceptable proof is submitted to the AEU, even if you have paid the penalty imposed by ECB.

ECB Hearing Information

Hearing Status: WRITTEN OFF

ECB Penalty Information

Penalty Imposed:	$2,500.00
Adjustments:	$2,500.00
Amount Paid:	$0.00
Penalty Balance Due:	$0.00
Court Docket Date:	10/31/2001

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

CLICK HERE TO SIGN UP FOR BUILDINGS NEWS

NYC Department of Buildings

ECB Violation Details

Premises: 430 VAN BRUNT STREET BROOKLYN
Filed At: 430 VAN BRUNT STREET , BROOKLYN , NY 11231
BIN: 3846916 **Block:** 603 **Lot:** 23
Community Board: 306

ECB Violation Summary

VIOLATION OPEN

ECB Violation Number: 34160291N

Severity: NON-HAZARDOUS

Certification Status: NO COMPLIANCE RECORDED
Hearing Status: WRITTEN OFF
Penalty Balance Due: $0.00

Respondent Information

Name: OWNER OF 430 VAN BRUNT
Mailing Address: , ,

Violation Details

Violation Date: 07/24/1997
Violation Type: CONSTRUCTION
Served Date: 09/25/1997
Inspection Unit:

Infraction Codes	Section of Law	Standard Description
B03	27-217	OCCUPANCY CONTRARY TO THAT ALLOWED BY THE C OF O BLDG DEPT RECORDS

Specific Violation Condition(s) and Remedy:

OCCUPANCY CONTRARY TO THAT ALLOWED BY BUILDING DEPT. RECORDS: IN THATDEMO NUMBER 73 OF 1932 INDICATES A VACANT LOT CURRENT USE HAS BEEN CHANGED TO USE GROUP 16 OCCUPANCY GROUP B2-DEAD STORAGE OF APPROXIMATELY

Issuing Inspector ID: 0860
DOB Violation Number: 072497C06SC01
Issued as Aggravated Level: NO

Dept. of Buildings Compliance Information

Certification Status: NO COMPLIANCE RECORDED
Compliance On:

A Certificate of Correction must be submitted to the Administrative Enforcement Unit (AEU) for all violations. A violation that is not dismissed by ECB will continue to remain ACTIVE or "open" on DOB records until acceptable proof is submitted to the AEU, even if you have paid the penalty imposed by ECB.

ECB Hearing Information

Hearing Status: WRITTEN OFF

ECB Penalty Information

Penalty Imposed:	$1,000.00
Adjustments:	$-1,000.00
Amount Paid:	$0.00
Penalty Balance Due:	$0.00
Court Docket Date:	04/30/1998

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

CLICK HERE TO SIGN UP FOR BUILDINGS NEWS

NYC Department of Buildings

ECB Violation Details

Premises: 430 VAN BRUNT STREET BROOKLYN
Filed At: 430 VAN BRUNT STREET , BROOKLYN , NY 11231
BIN: 3846916 **Block:** 603 **Lot:** 23
Community Board: 306

ECB Violation Summary

VIOLATION OPEN

ECB Violation Number: 34160292P

Severity: NON-HAZARDOUS

Certification Status: NO COMPLIANCE RECORDED
Hearing Status: WRITTEN OFF
Penalty Balance Due: $0.00

Respondent Information

Name: OWNER FO 430 VAN BRUNT
Mailing Address: , ,

Violation Details

Violation Date: 07/24/1997
Violation Type: CONSTRUCTION
Served Date: 09/25/1997
Inspection Unit:

Infraction Codes	Section of Law	Standard Description
B04	27-147	WORK WITHOUT A PERMIT

Specific Violation Condition(s) and Remedy:

OWRK WITHOUT A PERMIT, OWRK NOTED: HAVING CONSTRUCTED A 20'X30' CARPORT MADE OUT OF WOOD AND SHEET METAL, HOUSING A LARGE COMMERCIAL TRUCK.REMEDY: FILE PLANS AND OBTAIN A PERMIT IF FEASIBLE OR RESTORE TO PRIOR

Issuing Inspector ID: 0860
DOB Violation Number: 072497C06SC02
Issued as Aggravated Level: NO

Dept. of Buildings Compliance Information

Certification Status: NO COMPLIANCE RECORDED
Compliance On:

A Certificate of Correction must be submitted to the Administrative Enforcement Unit (AEU) for all violations. A violation that is not dismissed by ECB will continue to remain ACTIVE or "open" on DOB records until acceptable proof is submitted to the AEU, even if you have paid the penalty imposed by ECB.

ECB Hearing Information

Hearing Status: WRITTEN OFF

ECB Penalty Information

Penalty Imposed:	$1,000.00
Adjustments:	$-1,000.00
Amount Paid:	$0.00
Penalty Balance Due:	$0.00
Court Docket Date:	04/30/1998

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

CLICK HERE TO SIGN UP FOR BUILDINGS NEWS

NYC Department of Buildings

Overview for Complaint #:3066282 = RESOLVED

Complaint at: 430-434 VAN BRUNT STREET **BIN:** 3846916 **Borough:** BROOKLYN **ZIP:** 11231

Re: REPAIRING TRUCKS, USE CONTRARY TO C OF O. (SECOND OFFENSE)

Category Code: 32 C OF O - NOT BEING COMPLIED WITH

DOB District: N/A

Assigned To: BROOKLYN BOROUGH OFFICE **Priority:** C

Received: 08/28/1998 **Block:** 603 **Lot:** 23 **Community Board:** 306

Owner:

Last Inspection: 09/10/1998 - - BY BADGE # 1058

Disposition: 09/18/1998 - B1 - BUILDINGS VIOLATION(S) PREPARED & ATTEMPT TO SERVE WILL BE MADE

Comments: VIOLATION PREPARED FOR ILLEGLA STORAGE OF TRUCKS ON VACANT L OT

DOB Violation #: 090198C06HS02

ECB Violation #s: 34183570H

Complaint Disposition History

Disposition Date	Disposition Code	Disposition	Inspection By	Date
09/18/1998	B1	BUILDINGS VIOLATION(S) PREPARED & ATTEMPT TO SERVE WILL BE MADE NO REPAIR AT TIME OF INSPECTION	1058	09/01/1998
09/18/1998	J1	FOLLOW-UP INSPECTION TO BE SCHEDULED UPON FURTHER RESEARCH - NO REPAIR AT TIME OF INSPECTION	1058	09/01/1998
09/18/1998	B1	BUILDINGS VIOLATION(S) PREPARED & ATTEMPT TO SERVE WILL BE MADE VIOLATION PREPARED FOR ILLEGLA STORAGE OF TRUCKS ON VACANT L	1058	09/10/1998

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

APPENDIX 7
CURRENT DEED

NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER

This page is part of the instrument. The City Register will rely on the information provided by you on this page for purposes of indexing this instrument.The information on this page will control for indexing purposes in the event of any conflict with the rest of the document.

2014041701257001001E1B81

RECORDING AND ENDORSEMENT COVER PAGE

Document ID: 2014041701257001 Document Date: 04-17-2014 Preparation Date: 04-17-2014
Document Type: DEED
Document Page Count: 1

PRESENTER:
DAVID H. PERLMAN
186 MONTAGUE STREET
4TH FL
BROOKLYN, NY 11201
718-855-8708
SHARON@DHPERLMANLAW.COM

RETURN TO:
DAVID H. PERLMAN
186 MONTAGUE STREET
4TH FL
BROOKLYN, NY 11201
718-855-8708
SHARON@DHPERLMANLAW.COM

PROPERTY DATA

Borough	Block	Lot	Unit	Address
BROOKLYN	603	23	Entire Lot	N/A VAN BRUNT STREET

Property Type: RESIDENTIAL VACANT LAND

CROSS REFERENCE DATA

CRFN_____ *or* DocumentID_____ *or* _____ Year_____ Reel____ Page_____ *or* File Number_____

PARTIES

GRANTOR/SELLER:
PAT PACE
17 MOORE ROAD
MARLBORO, NY 07746

GRANTEE/BUYER:
MARLBORO BUILDERS, LLC
C/O DAVID H. PERLMAN, ESQ. , 186 MONTAGUE STREET, 4TH FL
BROOKLYN, NY 11201

FEES AND TAXES

Mortgage :		
Mortgage Amount:	$	0.00
Taxable Mortgage Amount:	$	0.00
Exemption:		
TAXES: County (Basic):	$	0.00
City (Additional):	$	0.00
Spec (Additional):	$	0.00
TASF:	$	0.00
MTA:	$	0.00
NYCTA:	$	0.00
Additional MRT:	$	0.00
TOTAL:	$	0.00
Recording Fee:	$	42.00
Affidavit Fee:	$	0.00

Filing Fee:	$	250.00
NYC Real Property Transfer Tax:	$	0.00
NYS Real Estate Transfer Tax:	$	0.00

RECORDED OR FILED IN THE OFFICE OF THE CITY REGISTER OF THE CITY OF NEW YORK
Recorded/Filed 05-12-2014 09:17
City Register File No.(CRFN): **2014000160710**

City Register Official Signature

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT – THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY

THIS INDENTURE, made the 17th day of April, in the year Two Thousand and Fourteen
BETWEEN

PAT PACE residing at 17 Moore Road, Marlboro NJ

party of the first part, and

MARLBORO BUILDERS, LLC c/o DAVID H. PERLMAN, ESQ,
186 Montague Street, 4th Fl, Brooklyn NY 11201

party of the second part,

WITNESSETH, that the party of the first part, in consideration of ten dollars and other valuable consideration paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Borough of Brooklyn, County of Kings, City and State of New York, known and designated on the Tax Map of the City of New York, known and designated in the Tax Map of the City of New York for the Borough of Brooklyn, Section 2 Block 603 Lot 23 as the Tax Map was on 10/20/1965 and Lot 24 as the Tax Map was on July 18th, 1967.

FOR INFORMATIONAL PURPOSES ONLY: 432 Van Brunt Street,
Borough of Brooklyn, County of Kings, State of New York

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.
AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.
The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF:

Pat Pace

* STATE OF NEW YORK)
) ss:
COUNTY OF KINGS)

On the 17 day of April in the year 2014 before me the undersigned, personally appeared Pat Pace, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

DAVID H. PERLMAN
Notary Public, State of New York
No. 02PE6046530
Qualified in Kings County
Commission Expires August 14, 2014

Signature and Office of individual taking acknowledgement

SEAL

* STATE OF NEW YORK)
) SS:
COUNTY OF KINGS)

On the ____day of _____ in the year 2005 before me the undersigned personally appeared _____, personally known to me or proved to me on the basis of satisfactory evidence to be the individuals) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

_____
Signature and Office of individual taking acknowledgement

* For acknowledgement taken in New York State.

** State, District of Columbia, Territory, Possession, or Foreign Country

_____) ss.:

On the _____ day of _____ in the year, _____ before me, the undersigned, personally appeared _____, personally known to me or proved to be on the basis of satisfactory evidence to be the individual(s) whose name(s) (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument, and that such individual made such appearance before the undersigned in the _____. (Insert the city or other political subdivision and the state or country or other place the acknowledgement was taken.)

_____
Signature and Office of
Individual taking acknowledgement

** For acknowledgement taken outside of New York State

BARGAIN and SALE DEED

With Covenant Against Grantor's Acts

TITLE NO.

PAT PACE

TO

MARLBORO BUILDERS, LLC

Section

Block 603

Lot 23

County or Town KINGS

Return by Mail to:

NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER

2014041701257001001SD500

SUPPORTING DOCUMENT COVER PAGE

Document ID: 2014041701257001 Document Date: 04-17-2014 Preparation Date: 04-17-2014
Document Type: DEED

ASSOCIATED TAX FORM ID: 2014041500153

SUPPORTING DOCUMENTS SUBMITTED:

	Page Count
RP - 5217 REAL PROPERTY TRANSFER REPORT	1

FOR CITY USE ONLY

C1. County Code ____ C2. Date Deed Recorded ____ Month Day Year

C3. Book ____ C4. Page ____

OR

C5. CRFN ____

CITY REGISTER

APR 22 2014

REAL PROPERTY TRANSFER REPORT

STATE OF NEW YORK
STATE BOARD OF REAL PROPERTY SERVICES

RP - 5217NYC

PROPERTY INFORMATION

1. Property Location: N/A (STREET NUMBER) | VANBRUNT STREET (STREET NAME) | BROOKLYN (BOROUGH) | 00000 (ZIP CODE)

2. Buyer Name: MARLBORO BUILDERS, LLC (LAST NAME / COMPANY) | (FIRST NAME)
(LAST NAME / COMPANY) | (FIRST NAME)

3. Tax Billing Address: Indicate where future Tax Bills are to be sent if other than buyer address (at bottom of form) (LAST NAME / COMPANY) | (FIRST NAME)
(STREET NUMBER AND STREET NAME) | (CITY OR TOWN) | (STATE) | (ZIP CODE)

4. Indicate the number of Assessment Roll parcels transferred on the deed: 1 # of Parcels OR ☐ Part of a Parcel

4A. Planning Board Approval - N/A for NYC
4B. Agricultural District Notice - N/A for NYC

5. Deed Property Size: ____ (FRONT FEET) X ____ (DEPTH) OR ____ (ACRES)

Check the boxes below as they apply:
6. Ownership Type is Condominium ☐
7. New Construction on Vacant Land ☐

8. Seller Name: PACE (LAST NAME / COMPANY) | PAT (FIRST NAME)
(LAST NAME / COMPANY) | (FIRST NAME)

9. Check the box below which most accurately describes the use of the property at the time of sale:

A ☐ One Family Residential
B ☐ 2 or 3 Family Residential
C ☑ Residential Vacant Land
D ☐ Non-Residential Vacant Land
E ☐ Commercial
F ☐ Apartment
G ☐ Entertainment / Amusement
H ☐ Community Service
I ☐ Industrial
J ☐ Public Service

SALE INFORMATION

10. Sale Contract Date: 4 / 1 / 2014 (Month Day Year)

11. Date of Sale / Transfer: 4 / 17 / 2014 (Month Day Year)

12. Full Sale Price $ 0

(Full Sale Price is the total amount paid for the property including personal property. This payment may be in the form of cash, other property or goods, or the assumption of mortgages or other obligations.) *Please round to the nearest whole dollar amount.*

13. Indicate the value of personal property included in the sale ____

14. Check one or more of these conditions as applicable to transfer:

A ☐ Sale Between Relatives or Former Relatives
B ☑ Sale Between Related Companies or Partners in Business
C ☑ One of the Buyers is also a Seller
D ☐ Buyer or Seller is Government Agency or Lending Institution
E ☐ Deed Type not Warranty or Bargain and Sale (Specify Below)
F ☐ Sale of Fractional or Less than Fee Interest (Specify Below)
G ☐ Significant Change in Property Between Taxable Status and Sale Dates
H ☐ Sale of Business is Included in Sale Price
I ☐ Other Unusual Factors Affecting Sale Price (Specify Below)
J ☐ None

ASSESSMENT INFORMATION - Data should reflect the latest Final Assessment Roll and Tax Bill

16. Building Class: V1

18. Total Assessed Value (of all parcels in transfer): 4230 0

17. Borough, Block and Lot / Roll Identifier(s) (If more than three, attach sheet with additional identifier(s))

BROOKLYN 603 23

20140415001532010 1

CERTIFICATION

I certify that all of the items of information entered on this form are true and correct (to the best of my knowledge and belief) and understand that the making of any willful false statement of material fact herein will subject me to the provisions of the penal law relative to the making and filing of false instruments.

BUYER	BUYER'S ATTORNEY
BUYER SIGNATURE: Pr Pr — DATE: Pr	LAST NAME: Perlman — FIRST NAME: David
STREET NUMBER / STREET NAME (AFTER SALE): C/O DAVID H. PERLMAN, ESQ. 186 MONTAGUE STREET, 4TH FL	AREA CODE: 718 — TELEPHONE NUMBER: 855 8708
CITY OR TOWN: BROOKLYN — STATE: NY — ZIP CODE: 11201	**SELLER** — SELLER SIGNATURE: Pat Sac — DATE: 4-17-14

2014041500153201

AFFIDAVIT OF COMPLIANCE WITH SMOKE DETECTOR REQUIREMENT FOR ONE- AND TWO-FAMILY DWELLINGS

State of New York)
) SS.:
County of Kings)

The undersigned, being duly sworn, depose and say under penalty of perjury that they are the grantor and grantee of the real property or of the cooperative shares in a cooperative corporation owning real property located at

N/A VAN BRUNT STREET
Street Address, Unit/Apt.

BROOKLYN (Borough) New York, 603 (Block) 23 (Lot) (the "Premises");

That the Premises is a one or two family dwelling, or a cooperative apartment or condominium unit in a one- or two-family dwelling, and that installed in the Premises is an approved and operational smoke detecting device in compliance with the provisions of Article 6 of Subchapter 17 of Chapter 1 of Title 27 of the Administrative Code of the City of New York concerning smoke detecting devices;

That they make affidavit in compliance with New York City Administrative Code Section 11-2105 (g). (The signatures of at least one grantor and one grantee are required, and must be notarized).

Pat Pace	Marlboro Builders LLC
Name of Grantor (Type or Print)	Name of Grantee (Type or Print)
Pat Pace	Pat Pace member
Signature of Grantor	Signature of Grantee
Sworn to before me this 17 date of April 20 14	Sworn to before me this ____ date of April 20 14
DAVID H. PERLMAN Notary Public, State of New York No. 02PE6046530 Qualified in Kings County Commission Expires August 14, 2014	DAVID H. PERLMAN Notary Public, State of New York No. 02PE6046530 Qualified in Kings County Commission Expires August 14, 2014

SEAL

These statements are made with the knowledge that a willfully false representation is punishable as a crime of perjury under Article 210 of the Penal Law.

NEW YORK CITY REAL PROPERTY TRANSFER TAX RETURNS FILED ON OR AFTER FEBRUARY 6th, 1990, WITH RESPECT TO THE CONVEYANCE OF A ONE- OR TWO-FAMILY DWELLING, OR A COOPERATIVE APARTMENT OR A CONDOMINIUM UNIT IN A ONE- OR TWO-FAMILY DWELLING, WILL NOT BE ACCEPTED FOR FILING UNLESS ACCOMPANIED BY THIS AFFIDAVIT.

The City of New York
Department of Environmental Protection
Bureau of Customer Services
59-17 Junction Boulevard
Flushing, NY 11373-5108

Customer Registration Form for Water and Sewer Billing

Property and Owner Information:

(1) Property receiving service: BOROUGH: BROOKLYN BLOCK: 603 LOT: 23

(2) Property Address: N/A VAN BRUNT STREET, BROOKLYN, NY 00000

(3) Owner's Name: MARLBORO BUILDERS, LLC

Additional Name:

Affirmation:

☑ Your water & sewer bills will be sent to the property address shown above.

Customer Billing Information:

Please Note:

A. Water and sewer charges are the legal responsibility of the owner of a property receiving water and/or sewer service. The owner's responsibility to pay such charges is not affected by any lease, license or other arrangement, or any assignment of responsibility for payment of such charges. Water and sewer charges constitute a lien on the property until paid. In addition to legal action against the owner, a failure to pay such charges when due may result in foreclosure of the lien by the City of New York, the property being placed in a lien sale by the City or Service Termination.

B. Original bills for water and/or sewer service will be mailed to the owner, **at the property address or to an alternate mailing address.** DEP will provide a duplicate copy of bills to one other party (such as a managing agent), however, any failure or delay by DEP in providing duplicate copies of bills shall in no way relieve the owner from his/her liability to pay all outstanding water and sewer charges. Contact DEP at (718) 595-7000 during business hours or visit www.nyc.gov/dep to provide us with the other party's information.

Owner's Approval:

The undersigned certifies that he/she/it is the owner of the property receiving service referenced above; that he/she/it has read and understands Paragraphs A & B under the section captioned "Customer Billing Information"; and that the information supplied by the undersigned on this form is true and complete to the best of his/her/its knowledge.

Print Name of Owner

Signature: _____ Date (mm/dd/yyyy) 04/17/2014

Name and Title of Person Signing for Owner, if applicable:

BCS-7CRF-ACRIS REV. 8/08

2014041500153101

NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER

This page is part of the instrument. The City Register will rely on the information provided by you on this page for purposes of indexing this instrument.The information on this page will control for indexing purposes in the event of any conflict with the rest of the document.

2013101400753001002E95E6

RECORDING AND ENDORSEMENT COVER PAGE

Document ID: 2013101400753001 Document Date: 10-22-2013 Preparation Date: 12-03-2013
Document Type: DEED
Document Page Count: 1

PRESENTER:
DAVID H. PERLMAN
186 MONTAGUE STREET
4TH FL
BROOKLYN, NY 11201
718-855-8708
SHARON@DHPERLMANLAW.COM

RETURN TO:
DAVID H. PERLMAN
186 MONTAGUE STREET
4TH FL
BROOKLYN, NY 11201
718-855-8708
SHARON@DHPERLMANLAW.COM

PROPERTY DATA

Borough	Block	Lot	Unit	Address
BROOKLYN	603	24	Entire Lot	432 VAN BRUNT STREET

Property Type: RESIDENTIAL VACANT LAND

CROSS REFERENCE DATA

CRFN_____ *or* DocumentID_____ *or* _____ Year_____ Reel____ Page_____ *or* File Number_____

PARTIES

GRANTOR/SELLER:
PAT PACE
17 MOORE ROAD
MARLBORO, NJ 07746

GRANTEE/BUYER:
MARLBORO BUILDERS, LLC
C/O DAVID H. PERLMAN, ESQ., 186 MONTAGUE STREET, 4TH FL
BROOKLYN, NY 11201

FEES AND TAXES

Mortgage :		
Mortgage Amount:	$	0.00
Taxable Mortgage Amount:	$	0.00
Exemption:		
TAXES: County (Basic):	$	0.00
City (Additional):	$	0.00
Spec (Additional):	$	0.00
TASF:	$	0.00
MTA:	$	0.00
NYCTA:	$	0.00
Additional MRT:	$	0.00
TOTAL:	$	0.00
Recording Fee:	$	42.00
Affidavit Fee:	$	0.00

Filing Fee:	$	250.00
NYC Real Property Transfer Tax:	$	0.00
NYS Real Estate Transfer Tax:	$	0.00

RECORDED OR FILED IN THE OFFICE OF THE CITY REGISTER OF THE CITY OF NEW YORK

Recorded/Filed 12-13-2013 09:05
City Register File No.(CRFN): **2013000512320**

City Register Official Signature

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT – THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY

THIS INDENTURE, made the 22 day of October , in the year Two Thousand and Thirteen
BETWEEN

PAT PACE residing at 17 Moore Road, Marlboro NJ

party of the first part, and

MARLBORO BUILDERS, LLC c/o DAVID H. PERLMAN, ESQ,
186 Montague Street, 4th Floor, Brooklyn New York 11201

party of the second part,

WITNESSETH, that the party of the first part, in consideration of ten dollars and other valuable consideration paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the

SEE SCHEDULE "A" ATTACHED

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.
AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.
The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF:

Pat Pace

PAT PACE

* STATE OF NEW YORK)
) ss:
COUNTY OF KINGS)

On the 22 day of October in the year 2013 before me the undersigned, personally appeared PAT PACE, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

DAVID H. PERLMAN
Notary Public, State of New York
No. 02PE6046530
Qualified in Kings County
Commission Expires August 14, 2016

Signature and Office of individual taking acknowledgement

SEAL

* STATE OF NEW YORK)
) SS:
COUNTY OF KINGS)

On the ____day of _____ in the year 2005 before me the undersigned personally appeared _____, personally known to me or proved to me on the basis of satisfactory evidence to be the individuals) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Signature and Office of individual taking acknowledgement

* For acknowledgement taken in New York State.

** State, District of Columbia, Territory, Possession, or Foreign Country

_____) ss.:

On the _____ day of _____ in the year, _____ before me, the undersigned, personally appeared _____, personally known to me or proved to be on the basis of satisfactory evidence to be the individual(s) whose name(s) (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument, and that such individual made such appearance before the undersigned in the _____. (Insert the city or other political subdivision and the state or country or other place the acknowledgement was taken.)

Signature and Office of
Individual taking acknowledgement

** For acknowledgement taken outside of New York State

BARGAIN and SALE DEED

With Covenant Against Grantor's Acts

TITLE NO.

PAT PACE

TO

MARLBORO BUILDERS, LLC

Section

Block 603

Lot 23 and 24

County or Town KINGS

Return by Mail to:

Schedule A Description

Title Number:

BLOCK 603 LOTS 23 AND 24 ON THE TAX MAP OF KINGS COUNTY

ALL that certain plot, piece or parcel of land situate lying and being in the Borough of Brooklyn, County of Kings, City and State of New York, known and designated on the Tax Map of The City of New York, known and designated in the Tax Map of the City of New York for the Borough of Brooklyn, Section 2 Block 603 Lot 23 as the Tax Map was on 10/20/1965 and Lot 24 as the Tax Map was on 7/18/1967.

FOR INFORMATIONAL PURPOSES ONLY: 432 Van Brunt Street
Borough of Brooklyn, County of Kings, State of New York

NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER

2013101400753001002S5B67

SUPPORTING DOCUMENT COVER PAGE

Document ID: 2013101400753001 Document Date: 10-22-2013 Preparation Date: 12-03-2013
Document Type: DEED

ASSOCIATED TAX FORM ID: 2013092700380

SUPPORTING DOCUMENTS SUBMITTED:

	Page Count
RP - 5217 REAL PROPERTY TRANSFER REPORT	1

CITY REGISTER

FOR CITY USE ONLY
C1. County Code
C2. Date Deed Recorded DEC 03 2013 Year
C3. Book
OR
C4. Page
C5. CRFN

REAL PROPERTY TRANSFER REPORT

STATE OF NEW YORK
STATE BOARD OF REAL PROPERTY SERVICES

RP - 5217NYC

PROPERTY INFORMATION

1. Property Location: 432 (STREET NUMBER) VAN BRUNT STREET (STREET NAME) BROOKLYN (BOROUGH) 11231 (ZIP CODE)

2. Buyer Name: MARLBORO BUILDERS, LLC (LAST NAME / COMPANY) (FIRST NAME)
(LAST NAME / COMPANY) (FIRST NAME)

3. Tax Billing Address: Indicate where future Tax Bills are to be sent if other than buyer address (at bottom of form)
(LAST NAME / COMPANY) (FIRST NAME)
(STREET NUMBER AND STREET NAME) (CITY OR TOWN) (STATE) (ZIP CODE)

4. Indicate the number of Assessment Roll parcels transferred on the deed: 1 # of Parcels OR ☐ Part of a Parcel

4A. Planning Board Approval - N/A for NYC
4B. Agricultural District Notice - N/A for NYC

Check the boxes below as they apply:
6. Ownership Type is Condominium ☐
7. New Construction on Vacant Land ☐

5. Deed Property Size: (FRONT FEET) X (DEPTH) OR (ACRES)

8. Seller Name: PACE (LAST NAME / COMPANY) PAT (FIRST NAME)
(LAST NAME / COMPANY) (FIRST NAME)

9. Check the box below which most accurately describes the use of the property at the time of sale:

A ☐ One Family Residential
B ☐ 2 or 3 Family Residential
C ☑ Residential Vacant Land
D ☐ Non-Residential Vacant Land
E ☐ Commercial
F ☐ Apartment
G ☐ Entertainment / Amusement
H ☐ Community Service
I ☐ Industrial
J ☐ Public Service

SALE INFORMATION

10. Sale Contract Date: 9 / 30 / 2013 (Month Day Year)

11. Date of Sale / Transfer: 10 / 22 / 2013 (Month Day Year)

12. Full Sale Price $ 0

(Full Sale Price is the total amount paid for the property including personal property. This payment may be in the form of cash, other property or goods, or the assumption of mortgages or other obligations.) *Please round to the nearest whole dollar amount.*

13. Indicate the value of personal property included in the sale

14. Check one or more of these conditions as applicable to transfer:

A ☐ Sale Between Relatives or Former Relatives
B ☐ Sale Between Related Companies or Partners in Business
C ☐ One of the Buyers is also a Seller
D ☐ Buyer or Seller is Government Agency or Lending Institution
E ☐ Deed Type not Warranty or Bargain and Sale (Specify Below)
F ☐ Sale of Fractional or Less than Fee Interest (Specify Below)
G ☐ Significant Change in Property Between Taxable Status and Sale Dates
H ☐ Sale of Business is Included in Sale Price
I ☐ Other Unusual Factors Affecting Sale Price (Specify Below)
J ☑ None

ASSESSMENT INFORMATION - Date should reflect the latest Final Assessment Roll and Tax Bill

15. Building Class: V 1

16. Total Assessed Value (of all parcels in transfer): 6 7 0 5 0

17. Borough, Block and Lot / Roll Identifier(s) (If more than three, attach sheet with additional identifier(s))

BROOKLYN 603 24

20130927003802010 2

CERTIFICATION

I certify that all of the items of information entered on this form are true and correct (to the best of my knowledge and belief) and understand that the making of any willful false statement of material fact herein will subject me to the provisions of the penal law relative to the making and filing of false instruments.

BUYER	BUYER'S ATTORNEY
Pat Pace	Perlman, David
BUYER SIGNATURE / DATE	LAST NAME / FIRST NAME
C/O DAVID H. PERLMAN, ESQ. 186 MONTAGUE STREET, 4TH FL	718 / 855-8708
STREET NUMBER / STREET NAME (AFTER SALE)	AREA CODE / TELEPHONE NUMBER
BROOKLYN / NY / 11201	SELLER
CITY OR TOWN / STATE / ZIP CODE	Pat Pace / 10/22/13
	SELLER SIGNATURE / DATE

2013092700380201

The City of New York
Department of Environmental Protection
Bureau of Customer Services
59-17 Junction Boulevard
Flushing, NY 11373-5108

www.nyc.gov/dep

Customer Registration Form for Water and Sewer Billing

Property and Owner Information:

(1) Property receiving service: BOROUGH: BROOKLYN BLOCK: 603 LOT: 24

(2) Property Address: 432 VAN BRUNT STREET, BROOKLYN, NY 11231

(3) Owner's Name: MARLBORO BUILDERS, LLC

Additional Name:

Affirmation:

☑ Your water & sewer bills will be sent to the property address shown above.

Customer Billing Information:

Please Note:

A. Water and sewer charges are the legal responsibility of the owner of a property receiving water and/or sewer service. The owner's responsibility to pay such charges is not affected by any lease, license or other arrangement, or any assignment of responsibility for payment of such charges. Water and sewer charges constitute a lien on the property until paid. In addition to legal action against the owner, a failure to pay such charges when due may result in foreclosure of the lien by the City of New York, the property being placed in a lien sale by the City or Service Termination.

B. Original bills for water and/or sewer service will be mailed to the owner, **at the property address or to an alternate mailing address.** DEP will provide a duplicate copy of bills to one other party (such as a managing agent), however, any failure or delay by DEP in providing duplicate copies of bills shall in no way relieve the owner from his/her liability to pay all outstanding water and sewer charges. Contact DEP at (718) 595-7000 during business hours or visit www.nyc.gov/dep to provide us with the other party's information.

Owner's Approval:

The undersigned certifies that he/she/it is the owner of the property receiving service referenced above; that he/she/it has read and understands Paragraphs A & B under the section captioned "Customer Billing Information"; and that the information supplied by the undersigned on this form is true and complete to the best of his/her/its knowledge.

Print Name of Owner:

Signature: _____ Date (mm/dd/yyyy)

Name and Title of Person Signing for Owner, if applicable:

BCS-7CRF-ACRIS REV. 8/08

2013092700380101

APPENDIX 8
AERIAL PHOTOGRAPHS

430-432 Van Brunt Street
430-432 VAN BRUNT ST
Brooklyn, NY 11231

Inquiry Number: 4017064.9
July 25, 2014

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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Date EDR Searched Historical Sources:
Aerial Photography July 25, 2014

Target Property:
430-432 VAN BRUNT ST
Brooklyn, NY 11231

Year	*Scale*	*Details*	*Source*
1924	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: July 01, 1924	EDR
1940	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: January 01, 1940	EDR
1943	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: January 01, 1943	EDR
1954	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: February 27, 1954	EDR
1966	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: February 23, 1966	EDR
1975	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: April 01, 1975	EDR
1978	Aerial Photograph. Scale: 1"=1000'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: October 01, 1978	EDR
1984	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: April 27, 1984	EDR
1995	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/DOQQ - acquisition dates: March 13, 1995	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Year: 2006	EDR
2008	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Year: 2008	EDR
2009	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Year: 2009	EDR
2011	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Year: 2011	EDR

INQUIRY #: 4017064.9

YEAR: 1924

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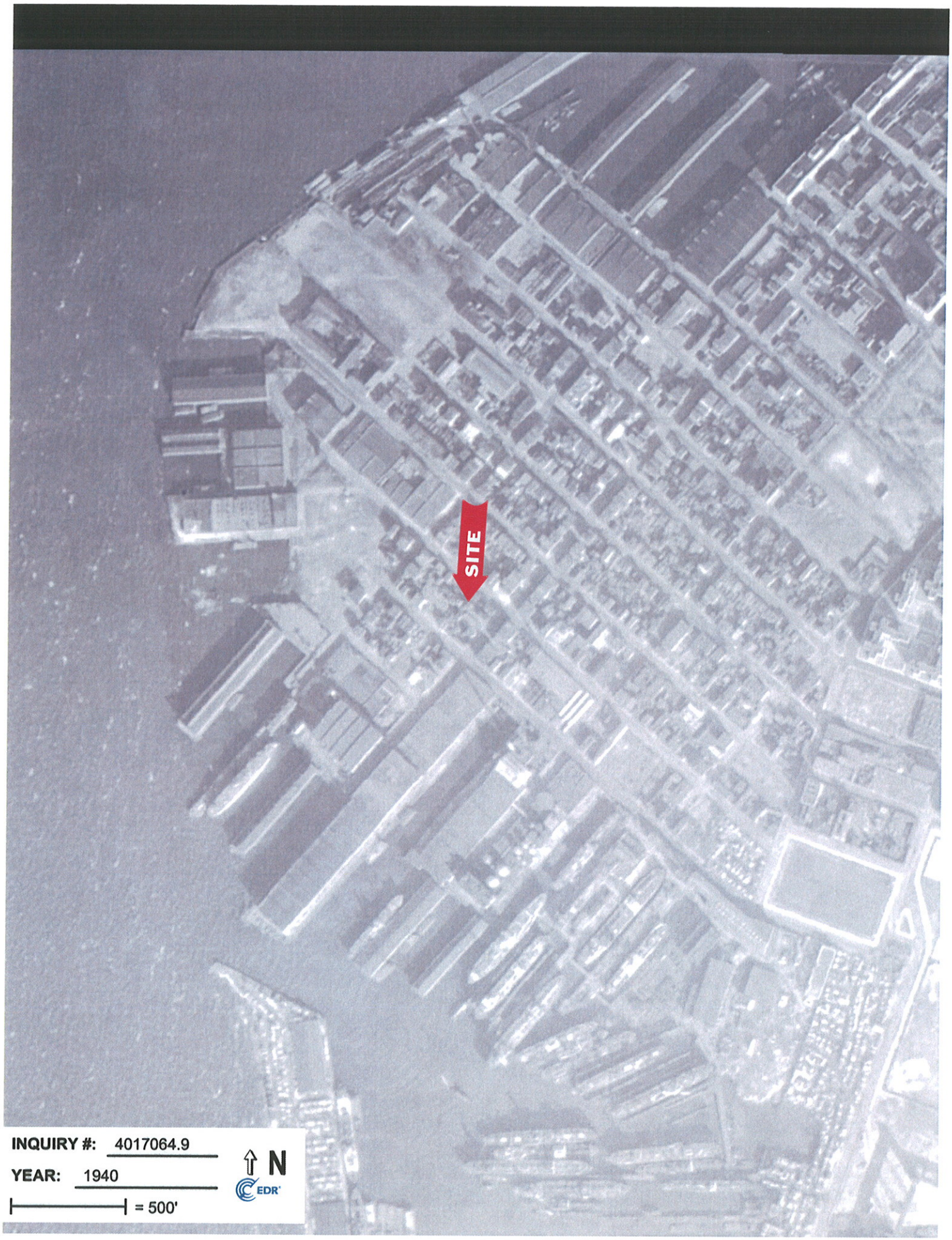
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YEAR: 1940
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EDR

SITE
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YEAR: 1943
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EDR

INQUIRY #: 4017064.9

YEAR: 1954

= 500'

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SITE
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YEAR: 1966
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EDR

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YEAR: 1975

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EDR

INQUIRY #: 4017064.9

YEAR: 1978

= 1000'

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EDR

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YEAR: 1984

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EDR

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EDR

SITE
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YEAR: 2006
= 500'
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EDR

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YEAR: 2008
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YEAR: 2009
= 500'
N
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SITE
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YEAR: 2011
= 500'
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EDR

APPENDIX 9
SANBORN MAPS

430-432 Van Brunt Street
430-432 VAN BRUNT ST
Brooklyn, NY 11231

Inquiry Number: 4017064.3
July 25, 2014

Certified Sanborn® Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

7/25/14

Site Name:
430-432 Van Brunt Street
430-432 VAN BRUNT ST
Brooklyn, NY 11231

Client Name:
PT Consultants, Inc.
629 Creek Road
Bellmawr, NJ 08031

EDR Inquiry # 4017064.3

Contact: Denis Cummings

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by PT Consultants, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Site Name: 430-432 Van Brunt Street
Address: 430-432 VAN BRUNT ST
City, State, Zip: Brooklyn, NY 11231
Cross Street:
P.O. # 99999-99
Project: 430-432 Van Brunt Street
Certification # D82B-44DD-AE86

Sanborn® Library search results
Certification # D82B-44DD-AE86

Maps Provided:

2007	2001	1988	1979	1922
2006	1996	1987	1977	1921
2005	1995	1986	1969	1915
2004	1993	1982	1950	1904
2003	1992	1981	1938	1886
2002	1991	1980	1928	

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

The Sanborn Library LLC Since 1866™

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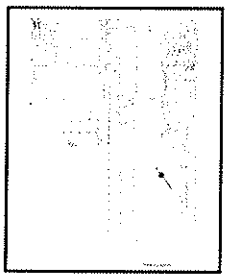
Sanborn Sheet Thumbnails

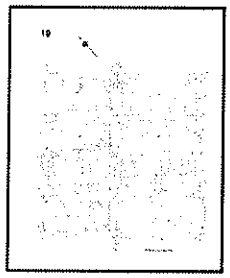
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2007 Source Sheets

Volume 1, Sheet 2

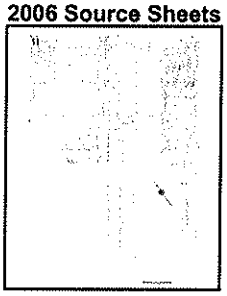


Volume 1, Sheet 11

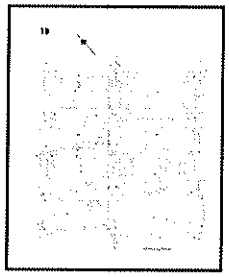


Volume 1, Sheet 19

2006 Source Sheets

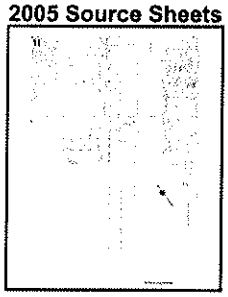


Volume 1, Sheet 11

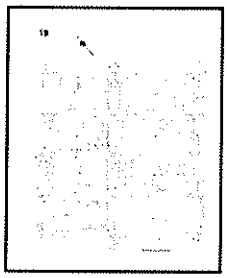


Volume 1, Sheet 19

2005 Source Sheets



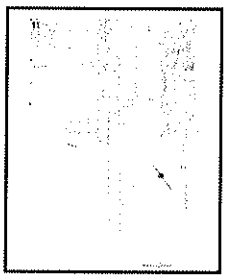
Volume 1, Sheet 11



Volume 1, Sheet 19

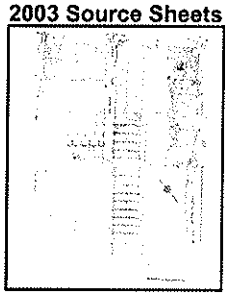
2004 Source Sheets

Volume 1, Sheet 19



Volume 1, Sheet 11

2003 Source Sheets



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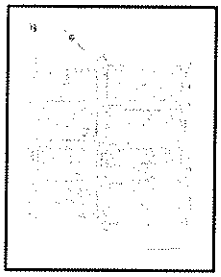
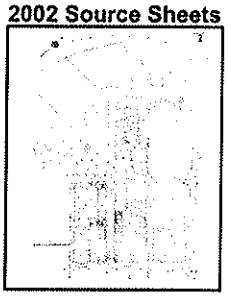
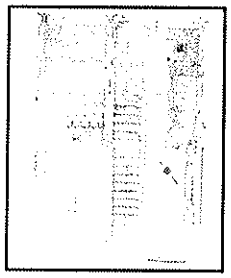


Volume 1, Sheet 19

2002 Source Sheets



Volume 1, Sheet 2



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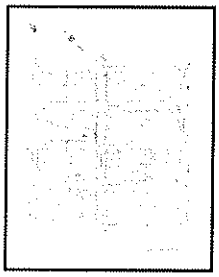

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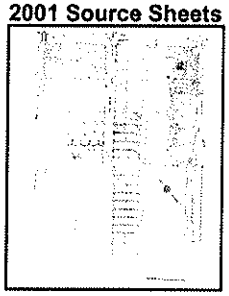

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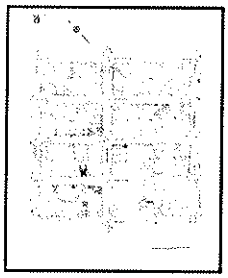

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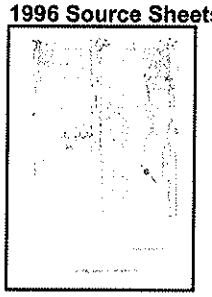

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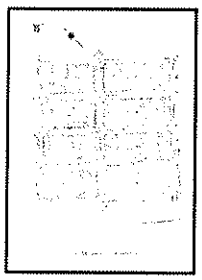

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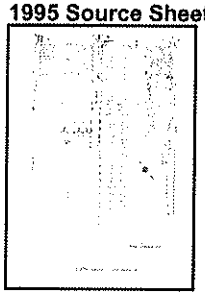

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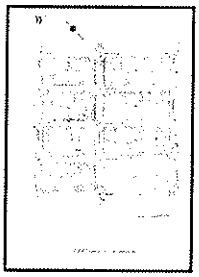

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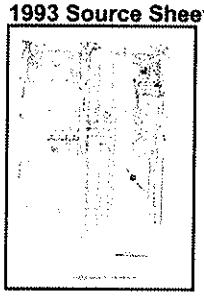

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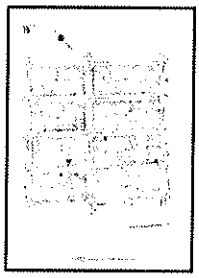

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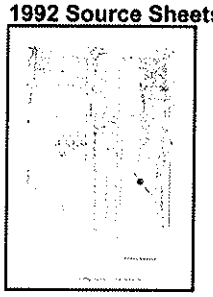

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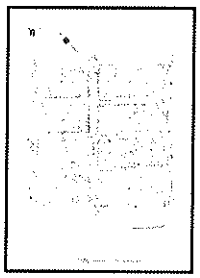

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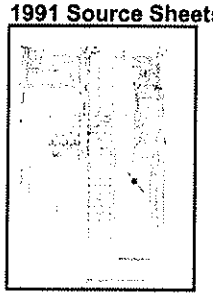

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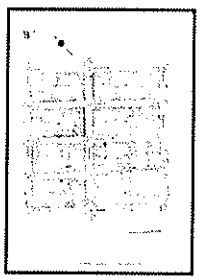

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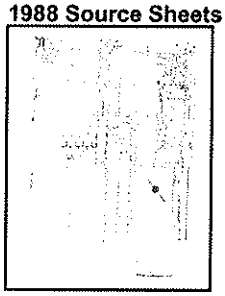

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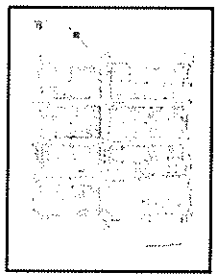

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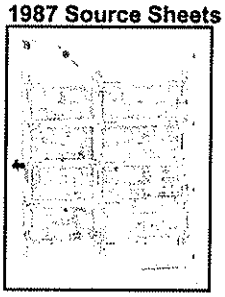

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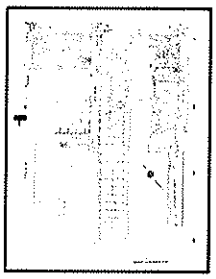

Volume 1, Sheet 11

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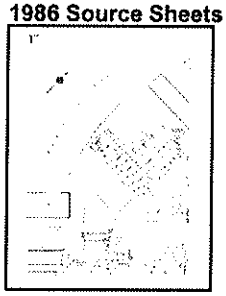
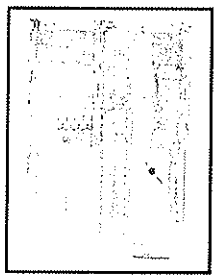


Volume 1, Sheet 1



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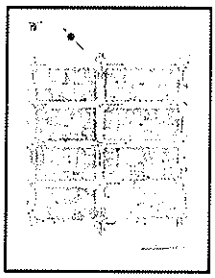

Volume 1, Sheet 19

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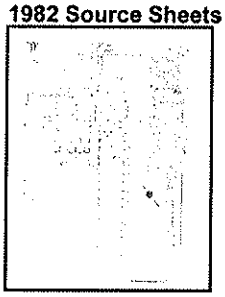

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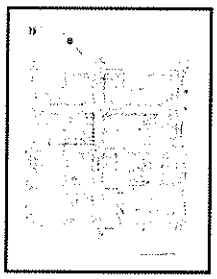

Volume 1, Sheet 19

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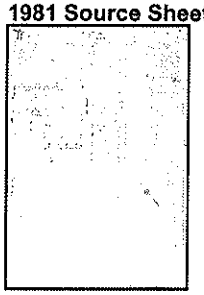

Volume 1, Sheet 11

Volume 1, Sheet 19

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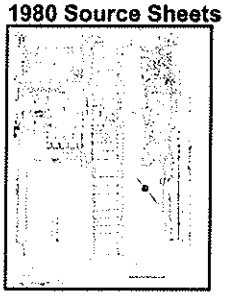

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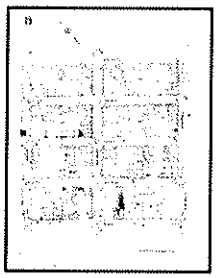

Volume 1, Sheet 19

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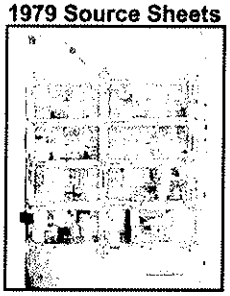

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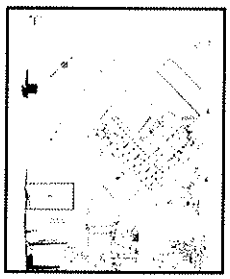

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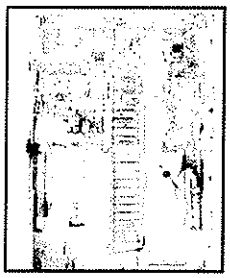

Volume 1, Sheet 11

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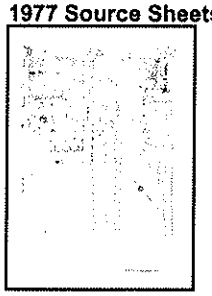

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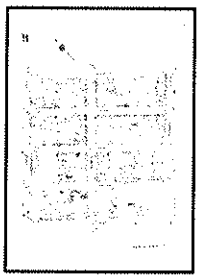

Volume 1, Sheet 19

Volume 1, Sheet 2

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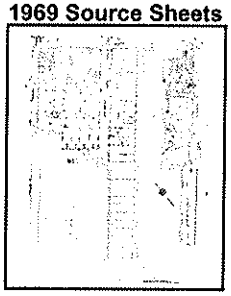

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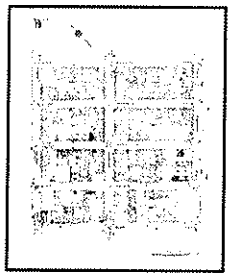

Volume 1, Sheet 19

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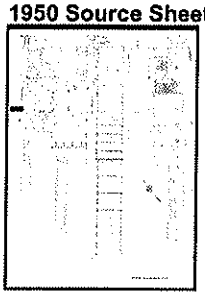

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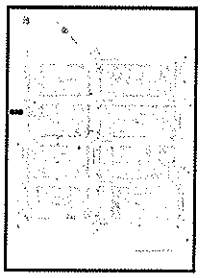

Volume 1, Sheet 19

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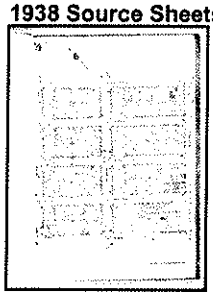

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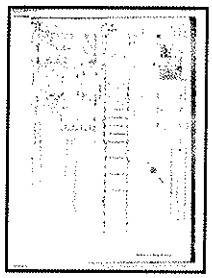

Volume 1, Sheet 11

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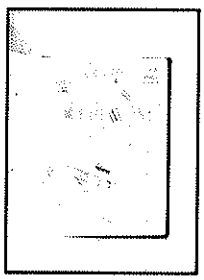
Volume Pier Maps, Sheet 47



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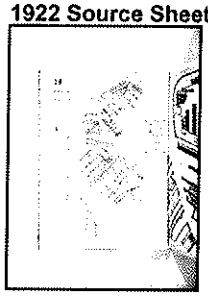

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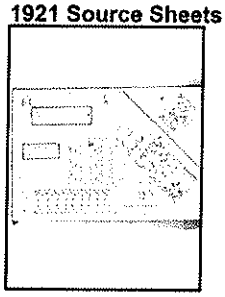

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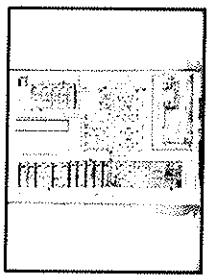

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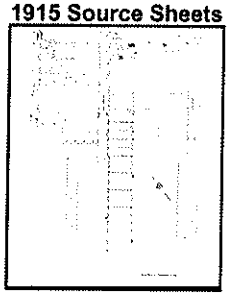

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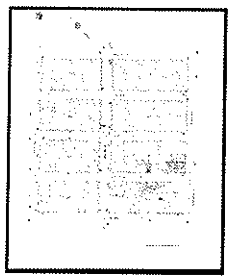

Volume 1, Sheet 19

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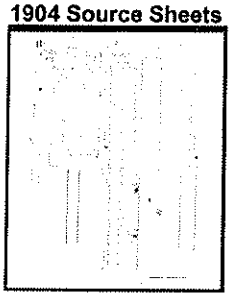

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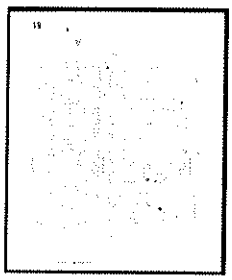

Volume 1, Sheet 19

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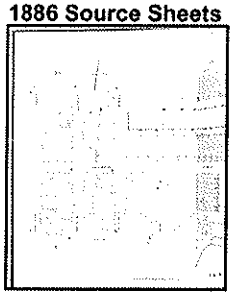

Volume 1, Sheet 6

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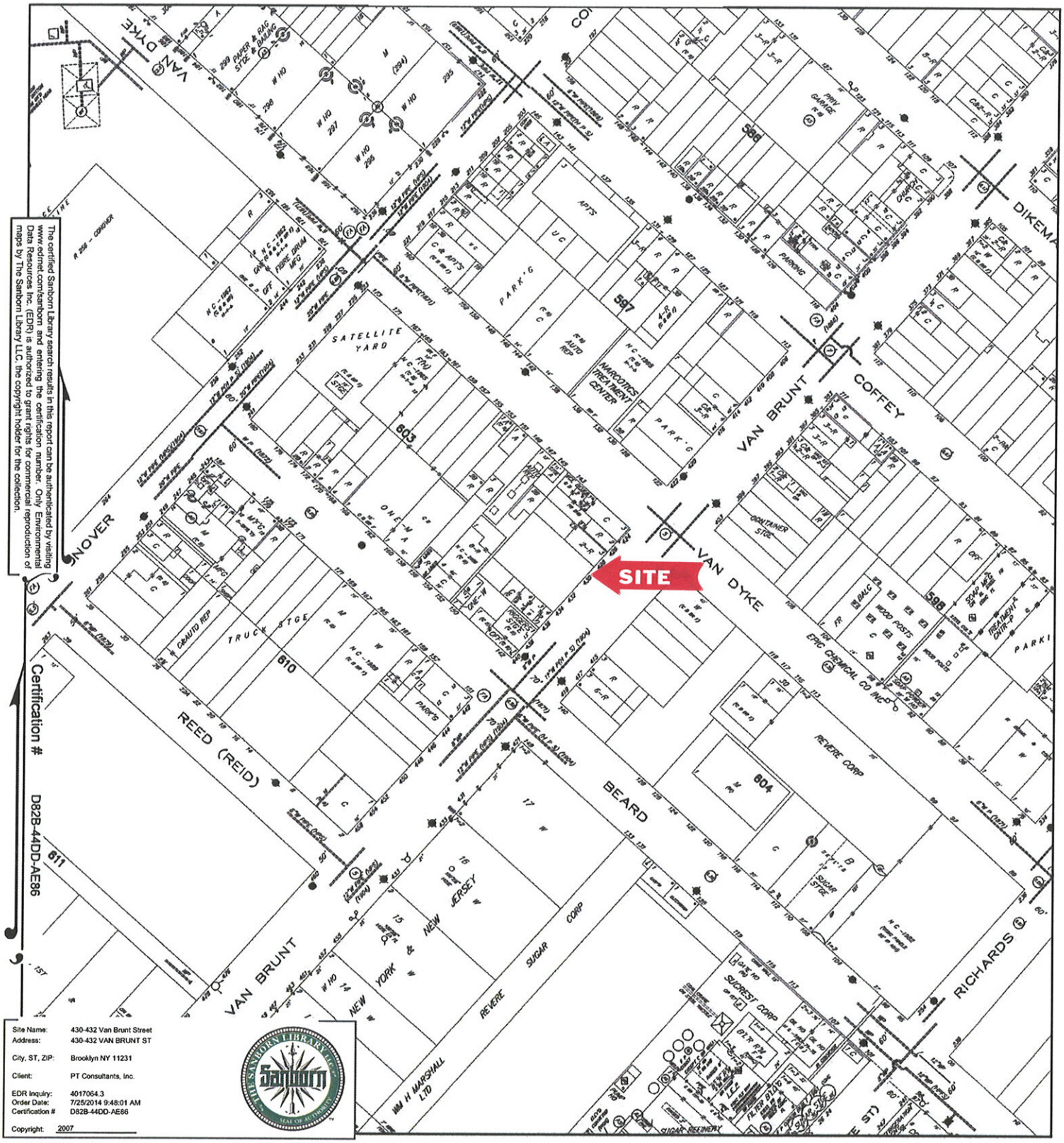

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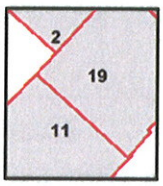

Volume 1, Sheet 2
Volume 1, Sheet 11
Volume 1, Sheet 19

0 Feet 150 300 600

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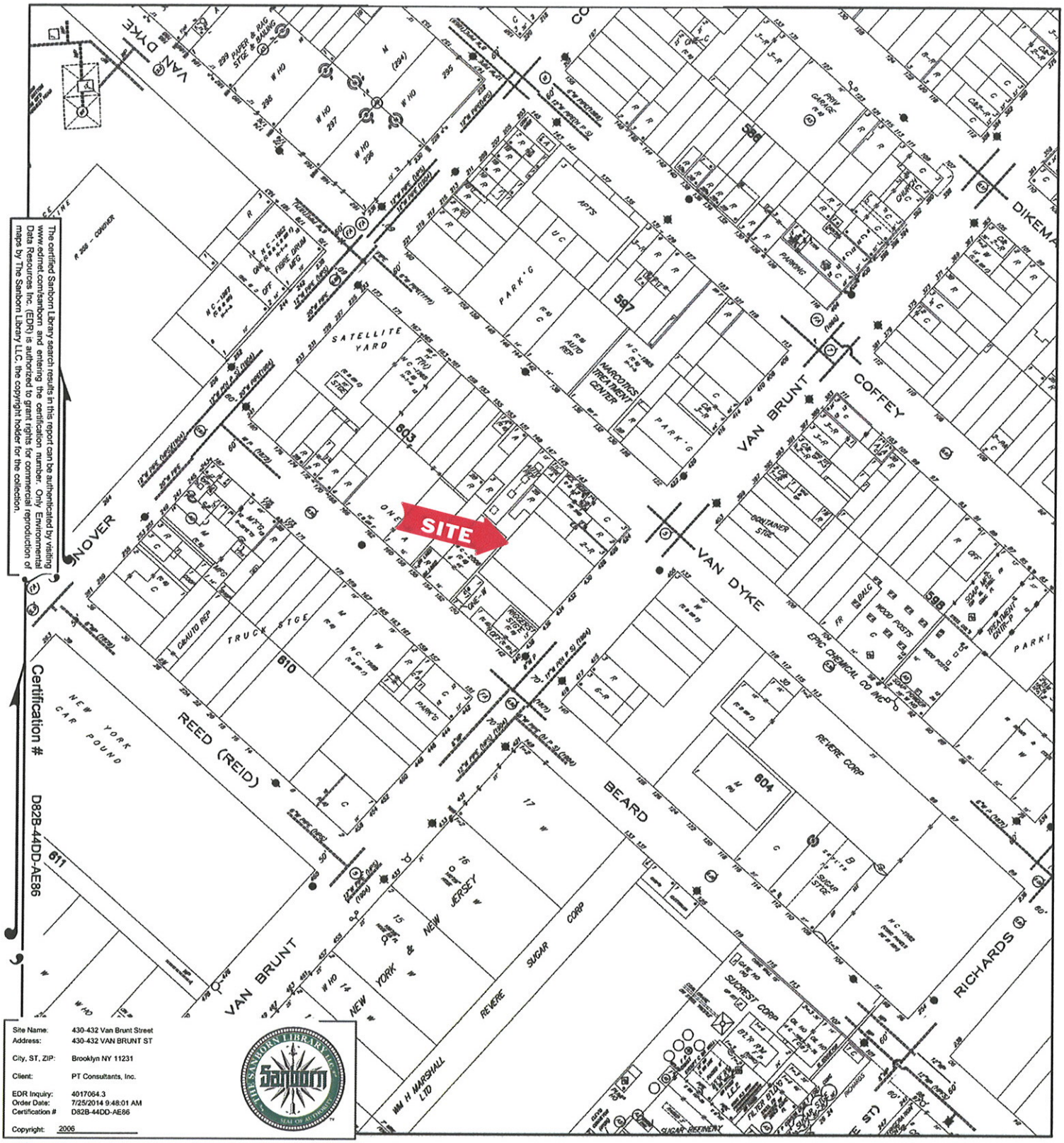

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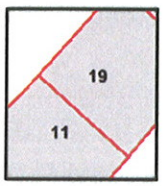

Volume 1, Sheet 11
Volume 1, Sheet 19

0 Feet 150 300 600

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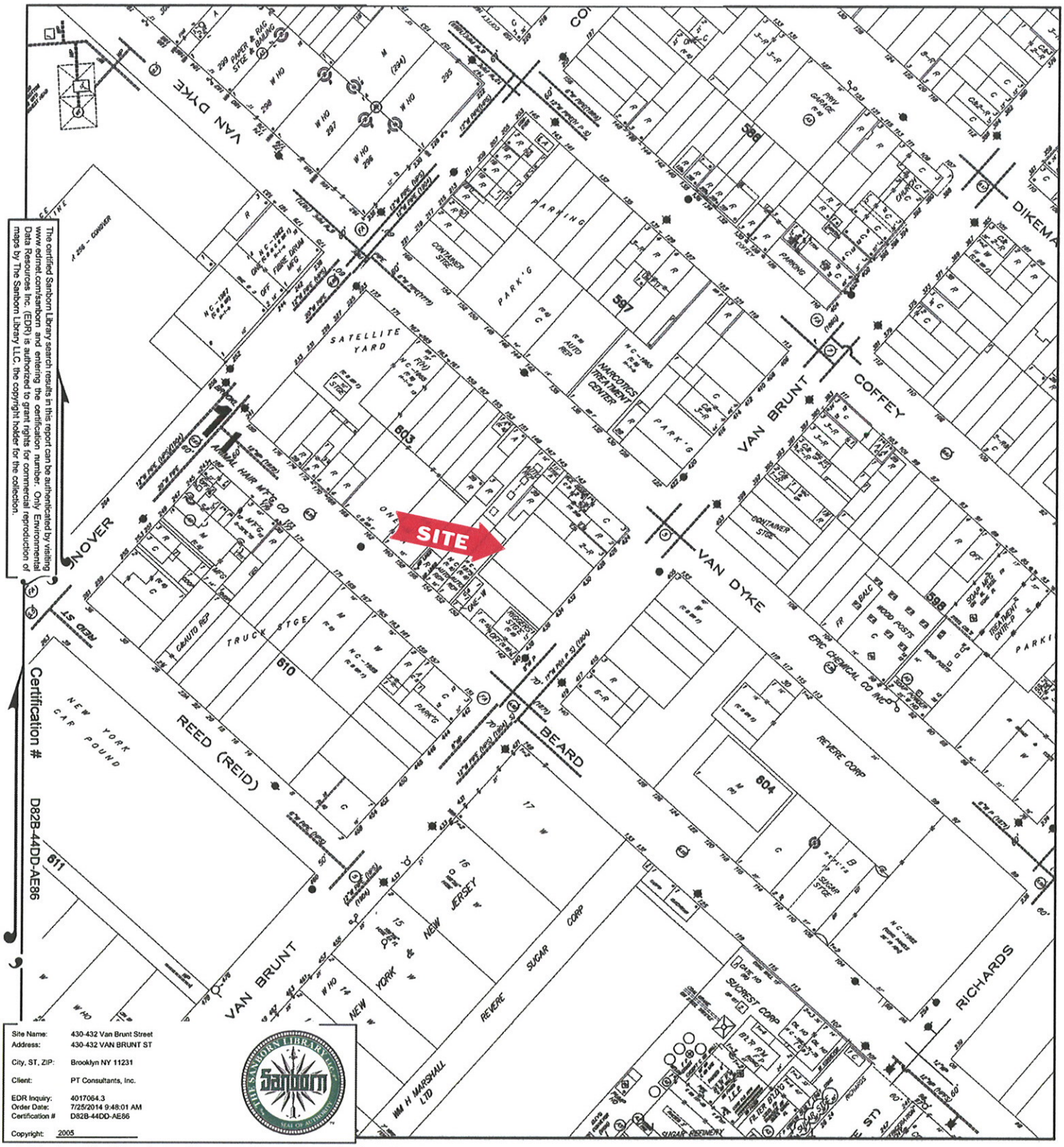

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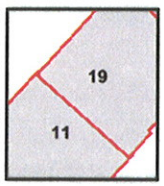

Volume 1, Sheet 11
Volume 1, Sheet 19

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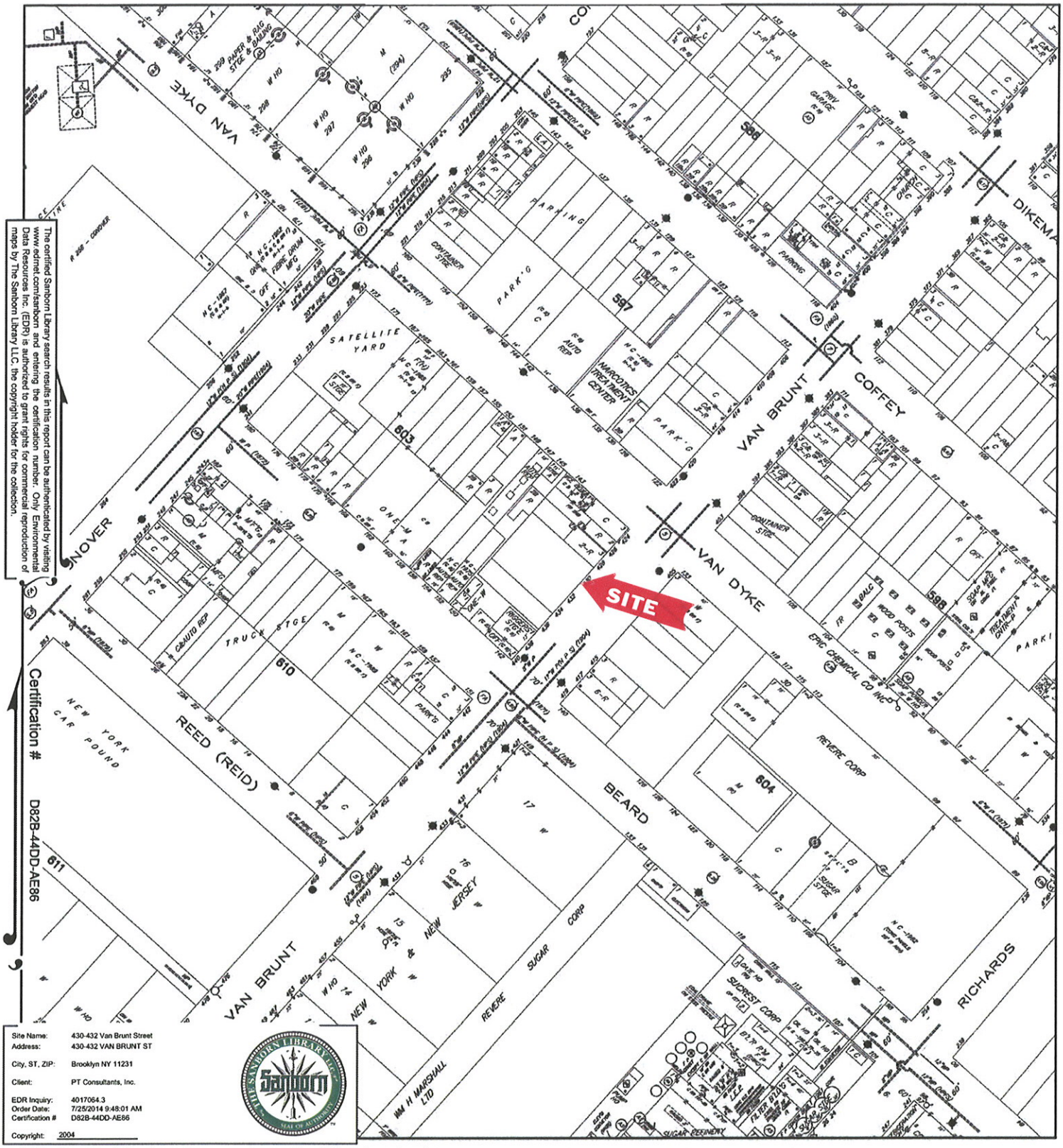

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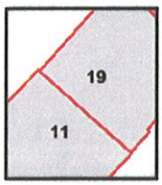
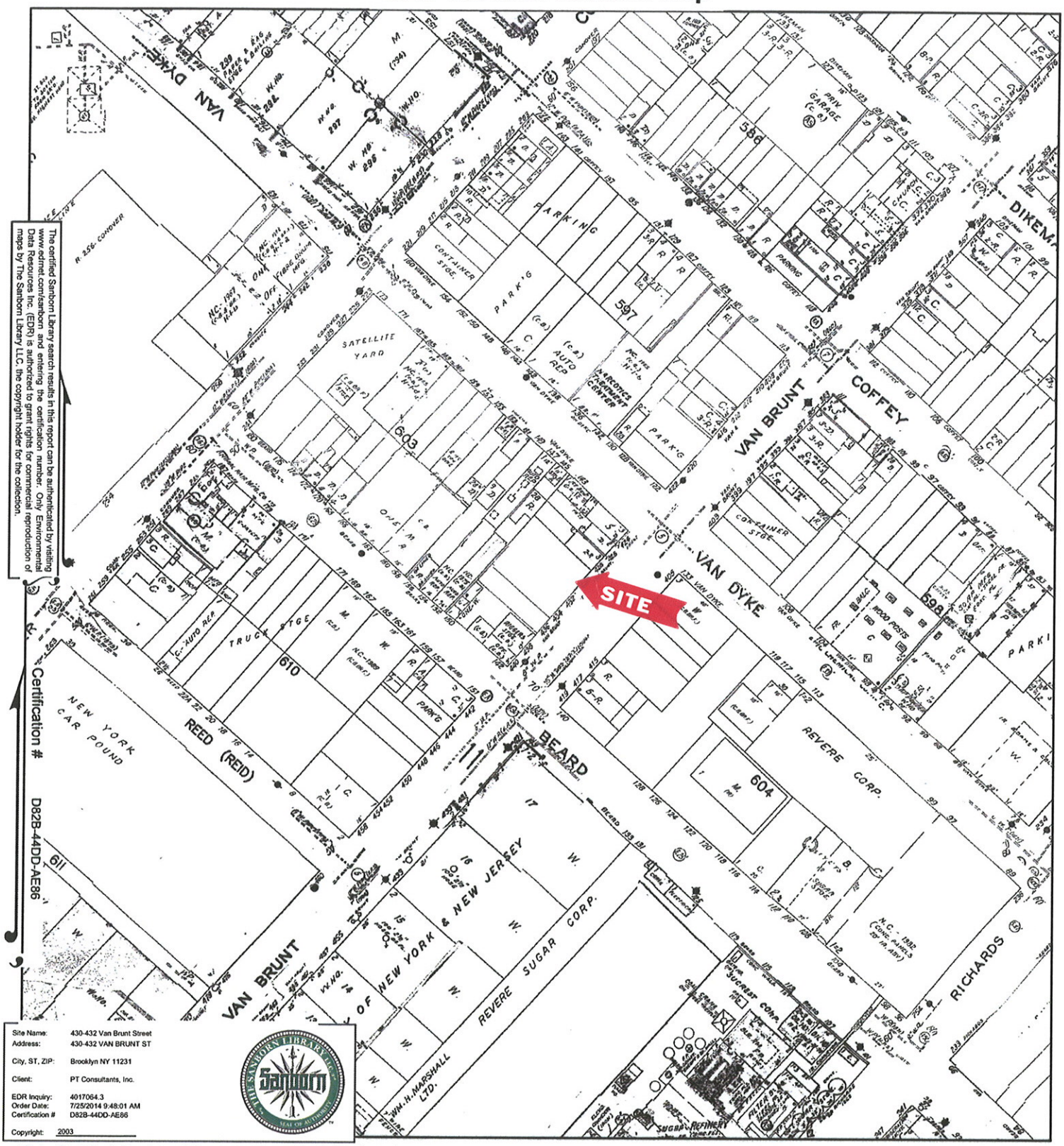


Volume 1, Sheet 19
Volume 1, Sheet 11

0 Feet 150 300 600

N

2003 Certified Sanborn Map



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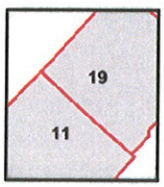
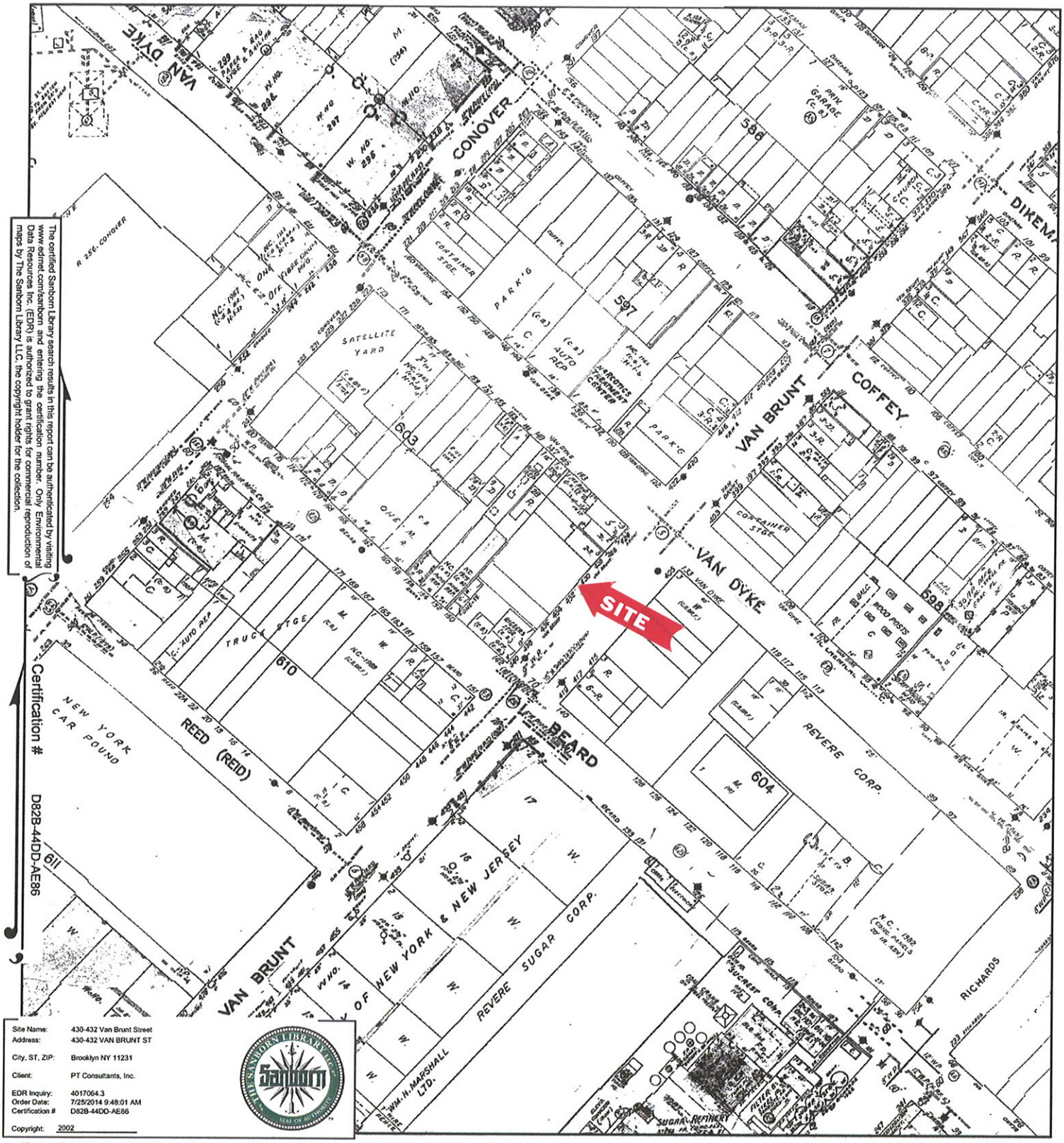


Volume 1, Sheet 11
Volume 1, Sheet 19

0 Feet 150 300 600

N

2002 Certified Sanborn Map



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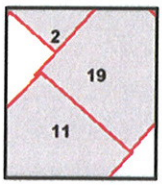
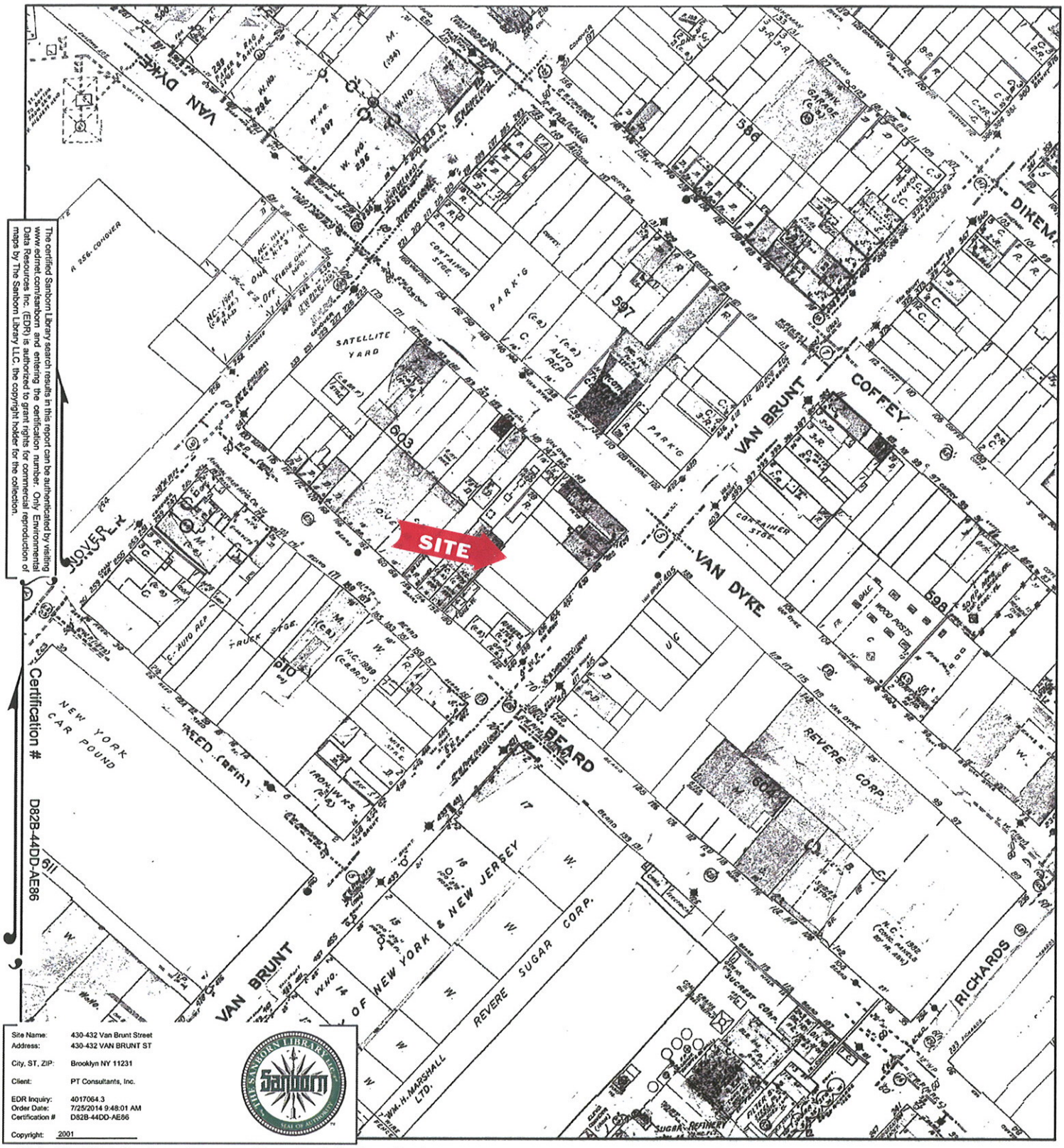


Volume 1, Sheet 2
Volume 1, Sheet 11
Volume 1, Sheet 19

0 Feet 150 300 600

N

2001 Certified Sanborn Map



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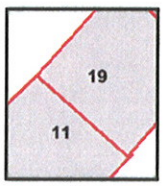
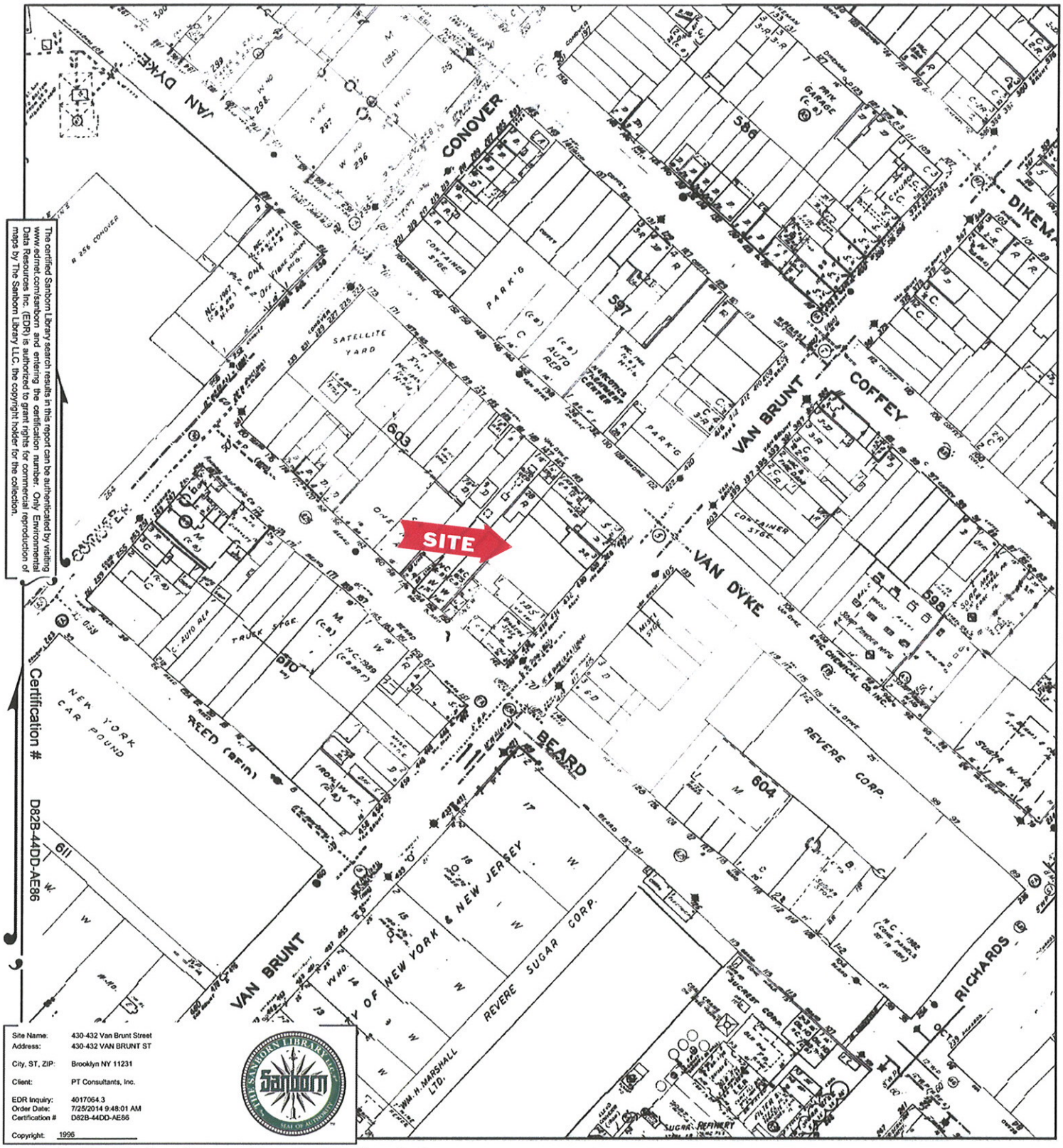


Volume 1, Sheet 11
Volume 1, Sheet 19

0 Feet 150 300 600

N

1996 Certified Sanborn Map



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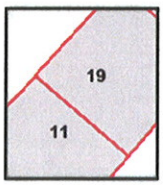

Volume 1, Sheet 11
Volume 1, Sheet 19

0 Feet 150 300 600

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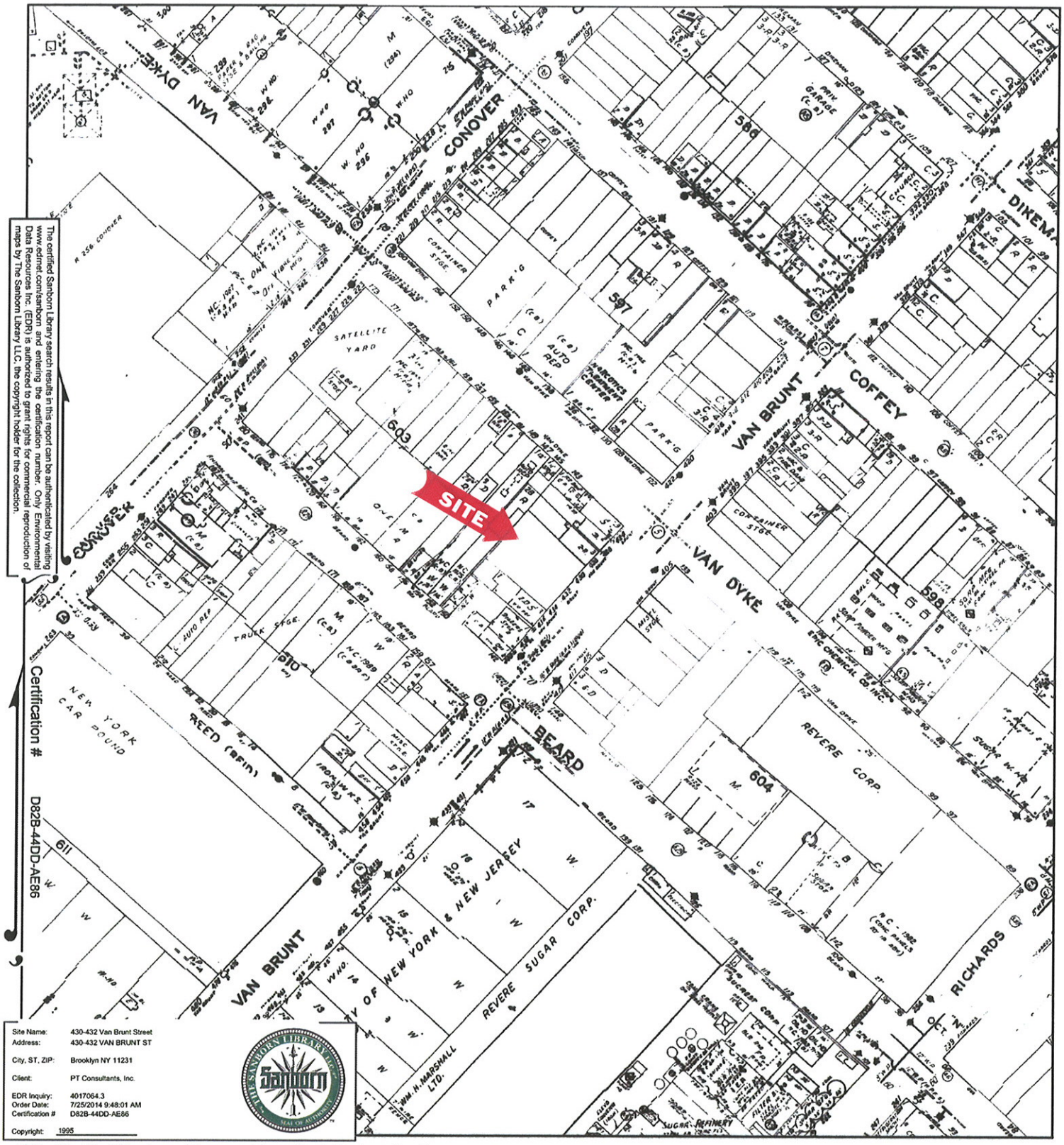
1995 Certified Sanborn Map



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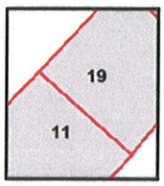

Volume 1, Sheet 11
Volume 1, Sheet 19

0 Feet 150 300 600

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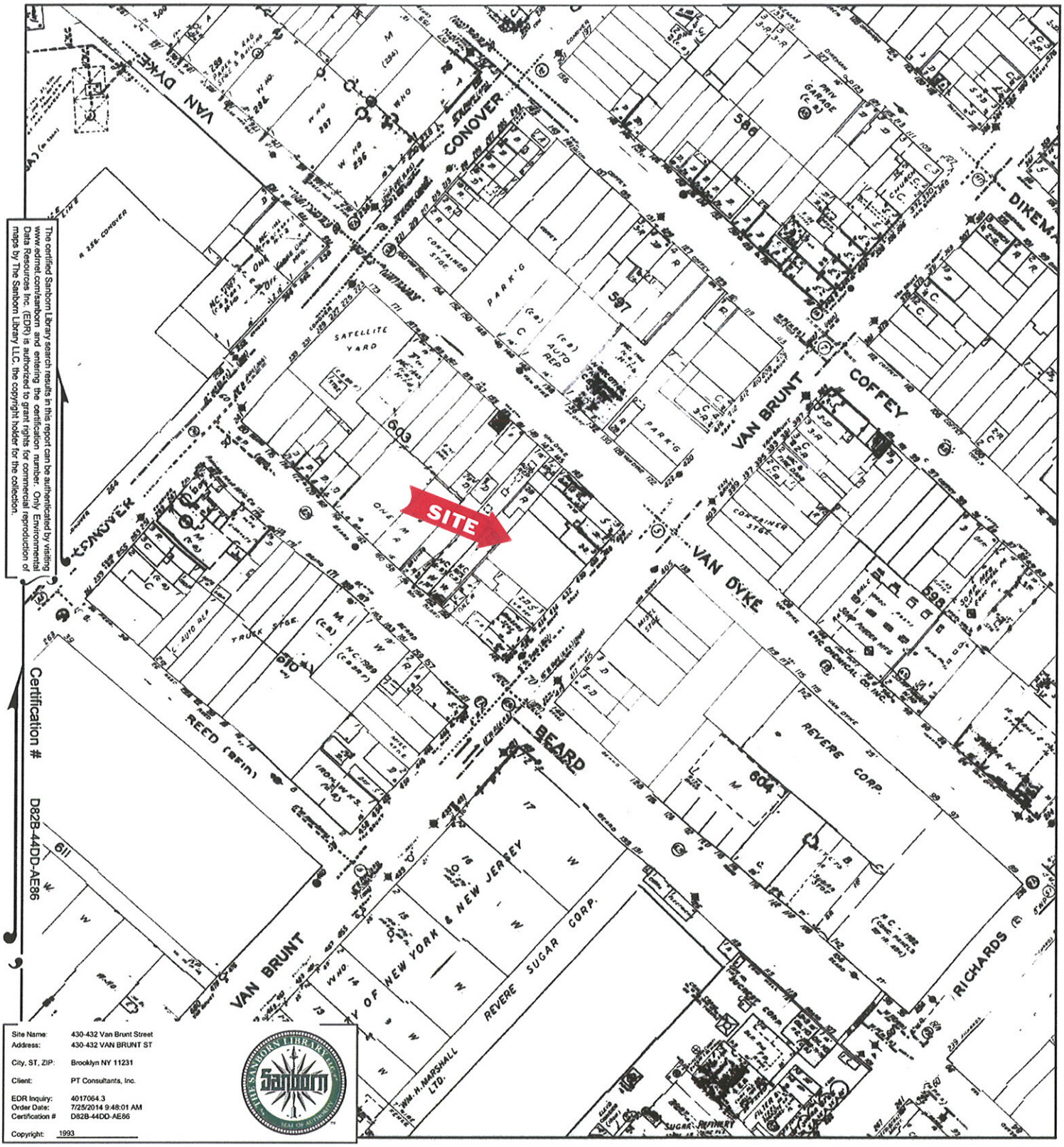
1993 Certified Sanborn Map



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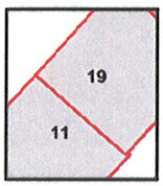

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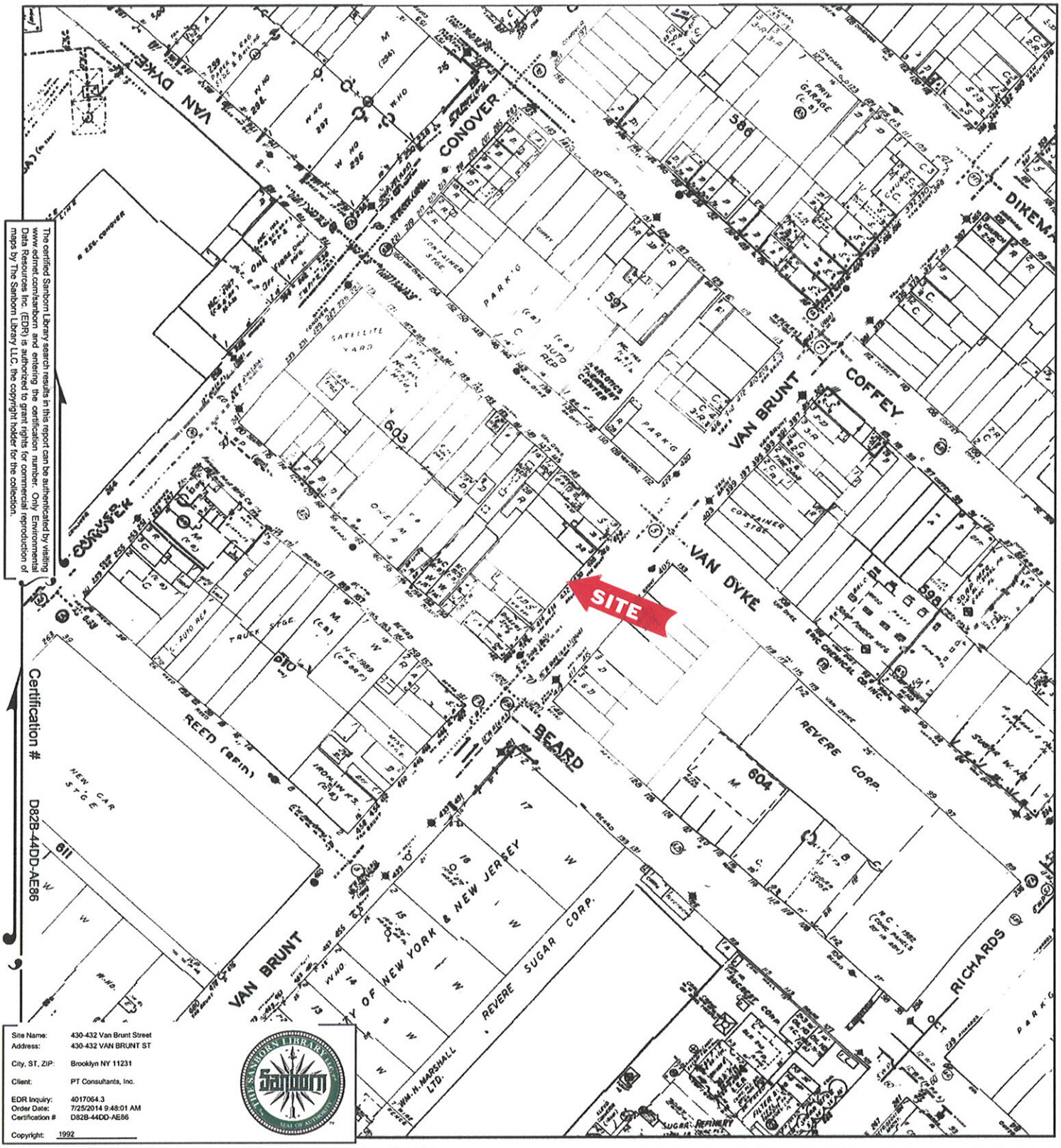
1992 Certified Sanborn Map



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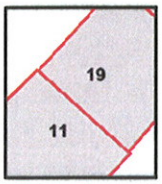

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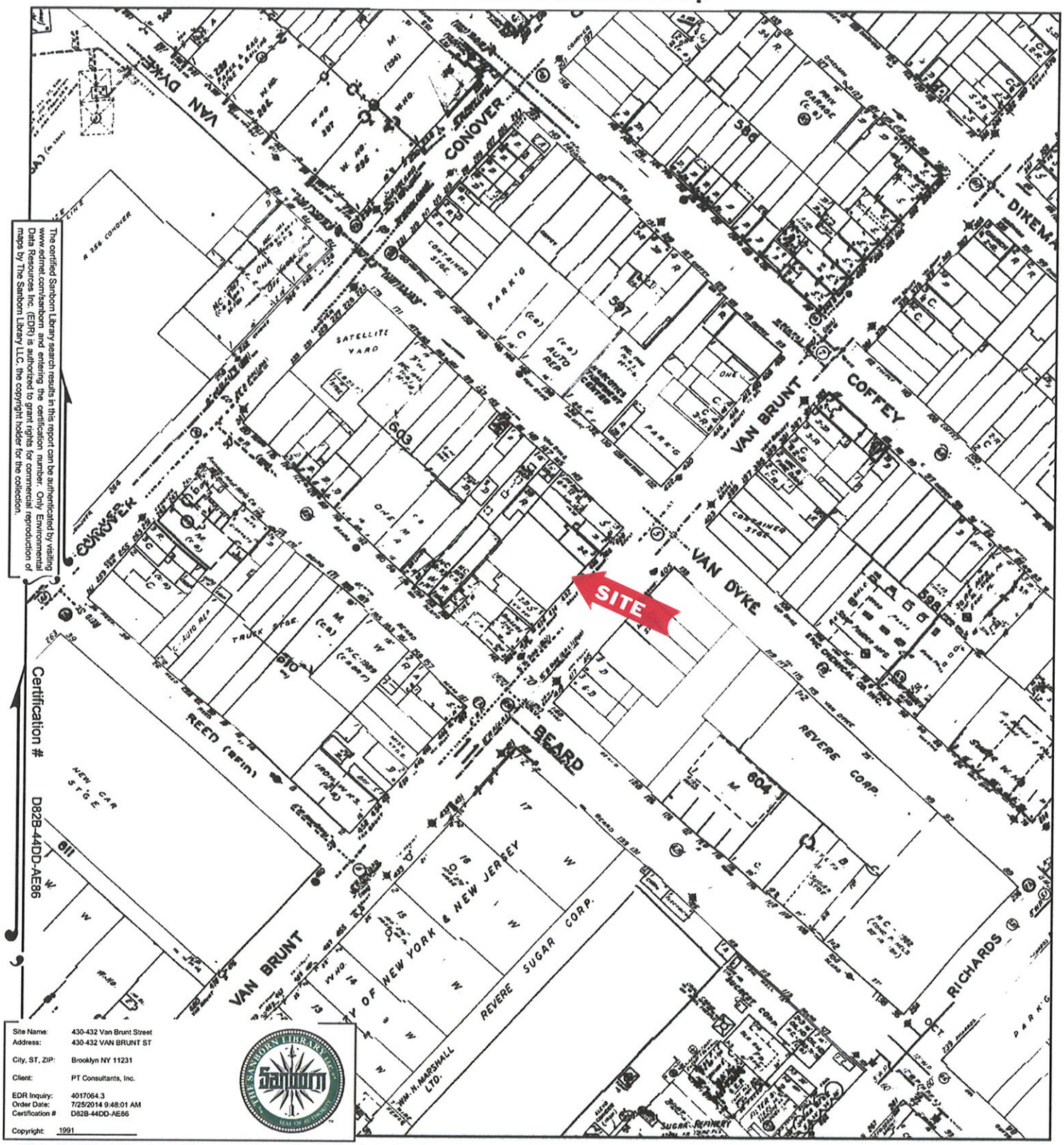
1991 Certified Sanborn Map



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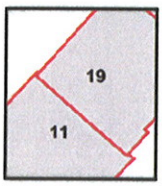

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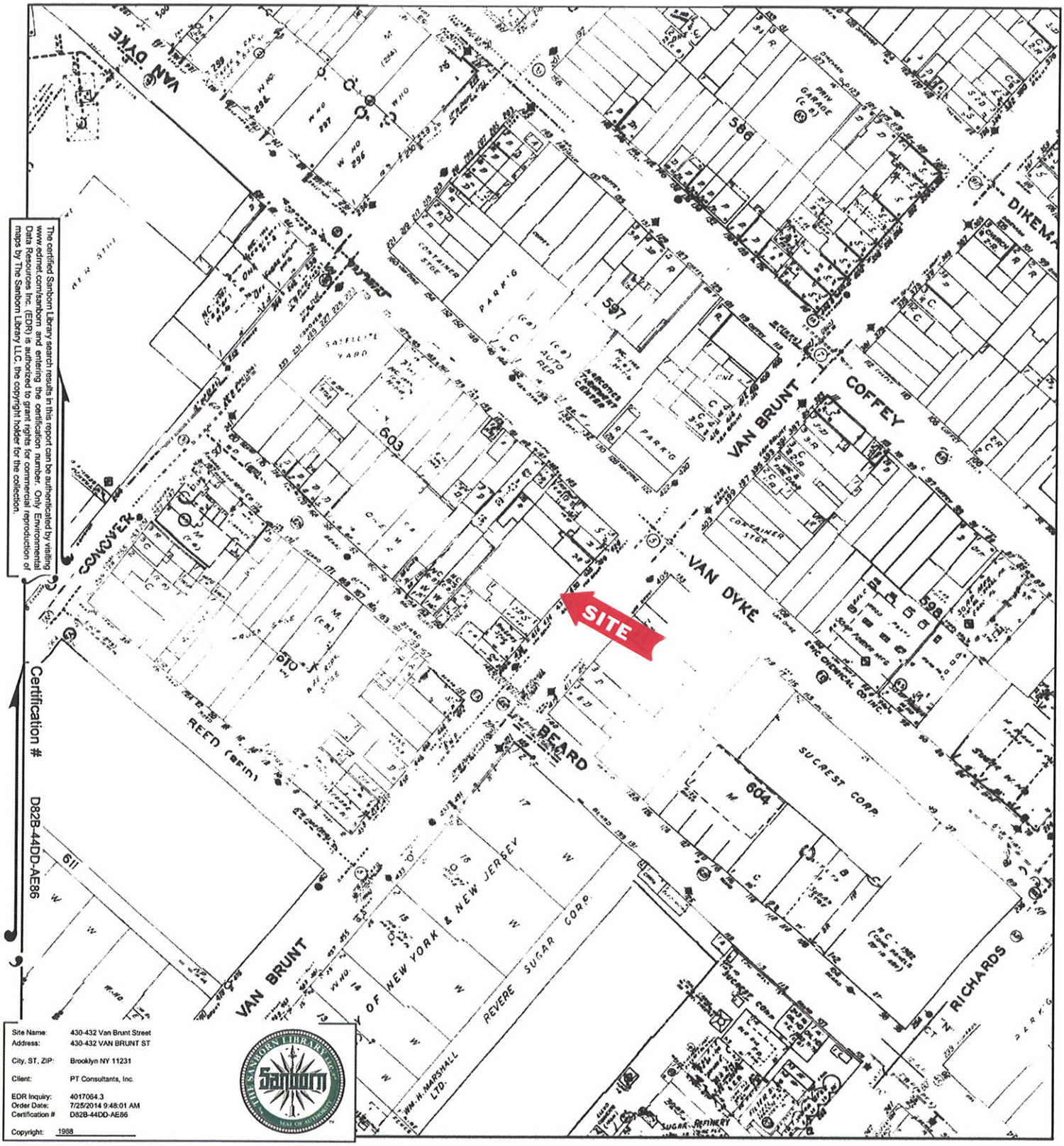
1988 Certified Sanborn Map



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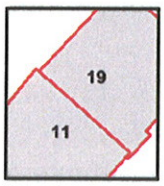

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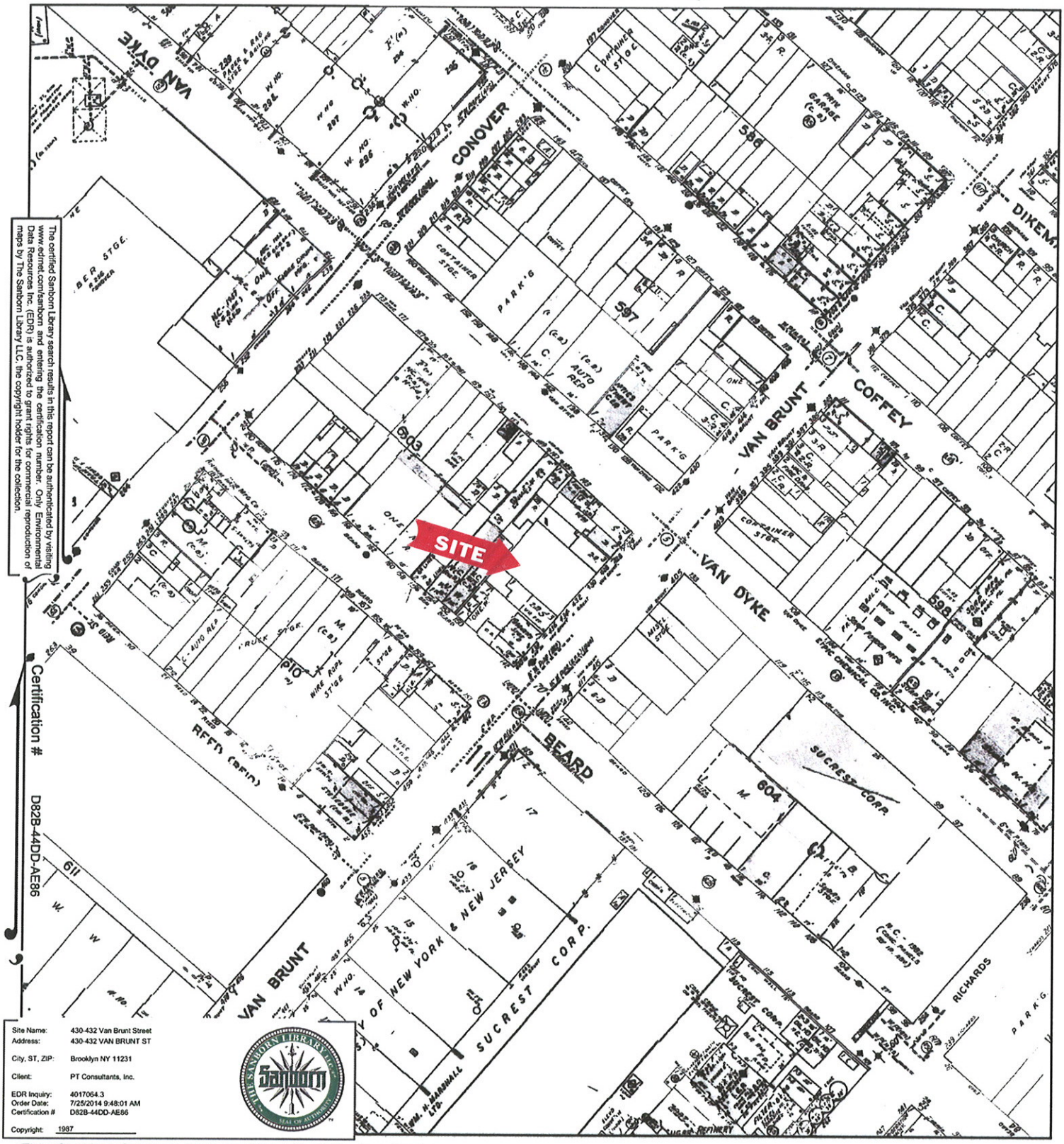
1987 Certified Sanborn Map



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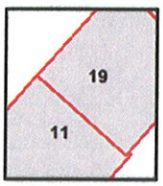

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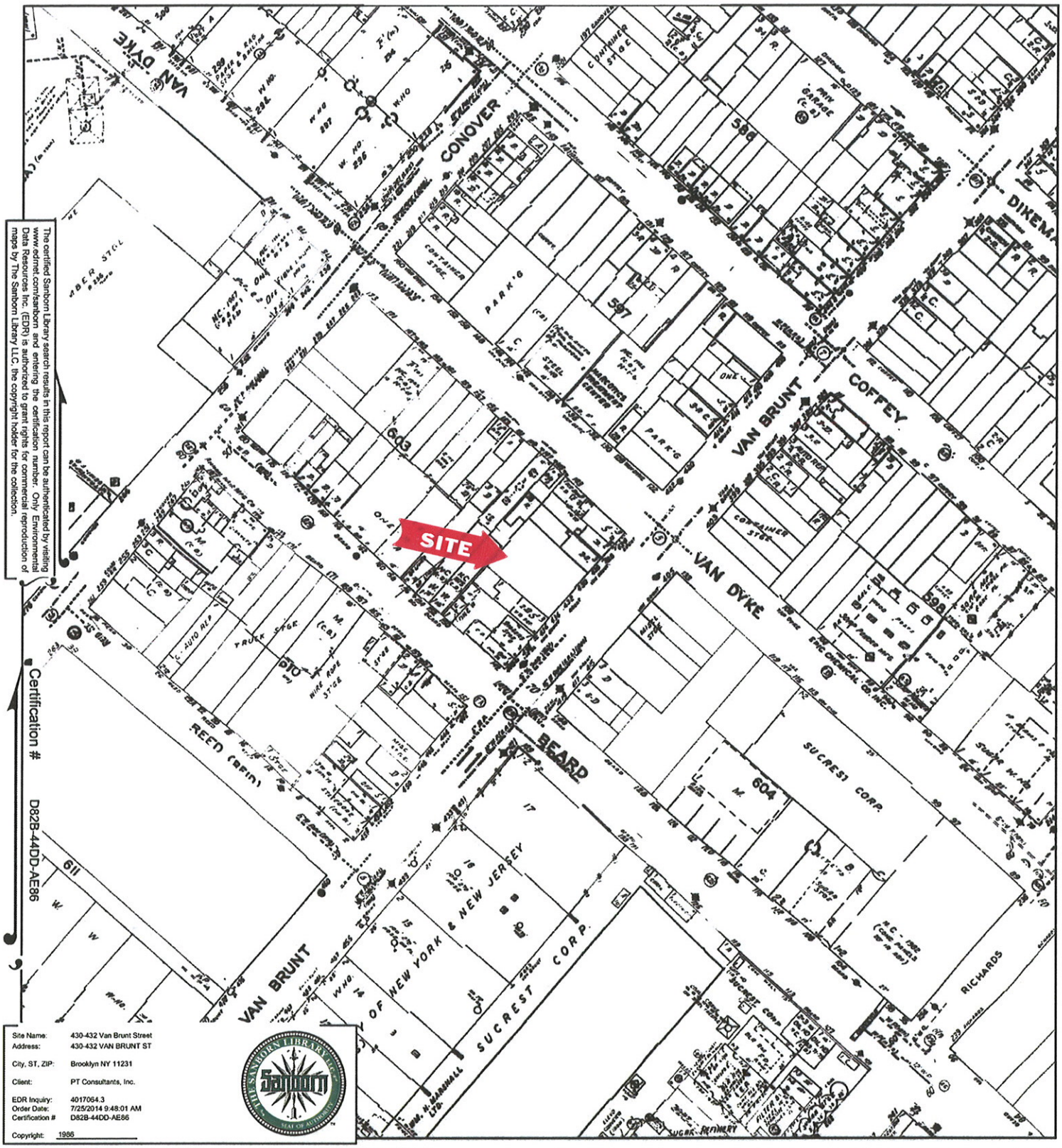
1986 Certified Sanborn Map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CONOVER
VAN BRUNT
COFFEY
BEARD
REED (BRIM)
SUCREST CORP.
RICHARDS
DIKEMA
PARK'G
CONTAINER STGE.
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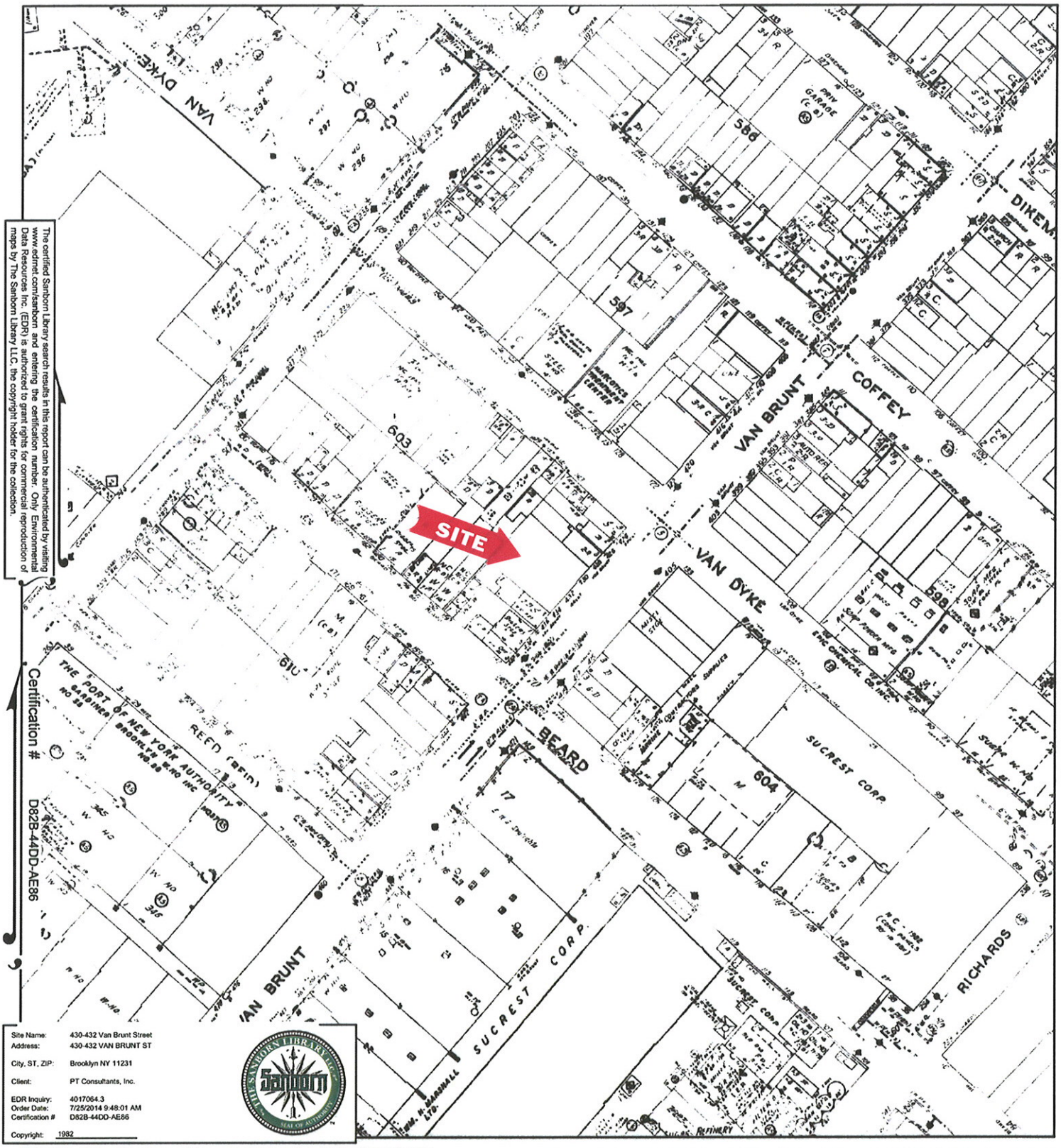

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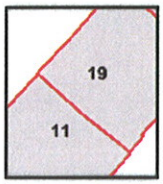
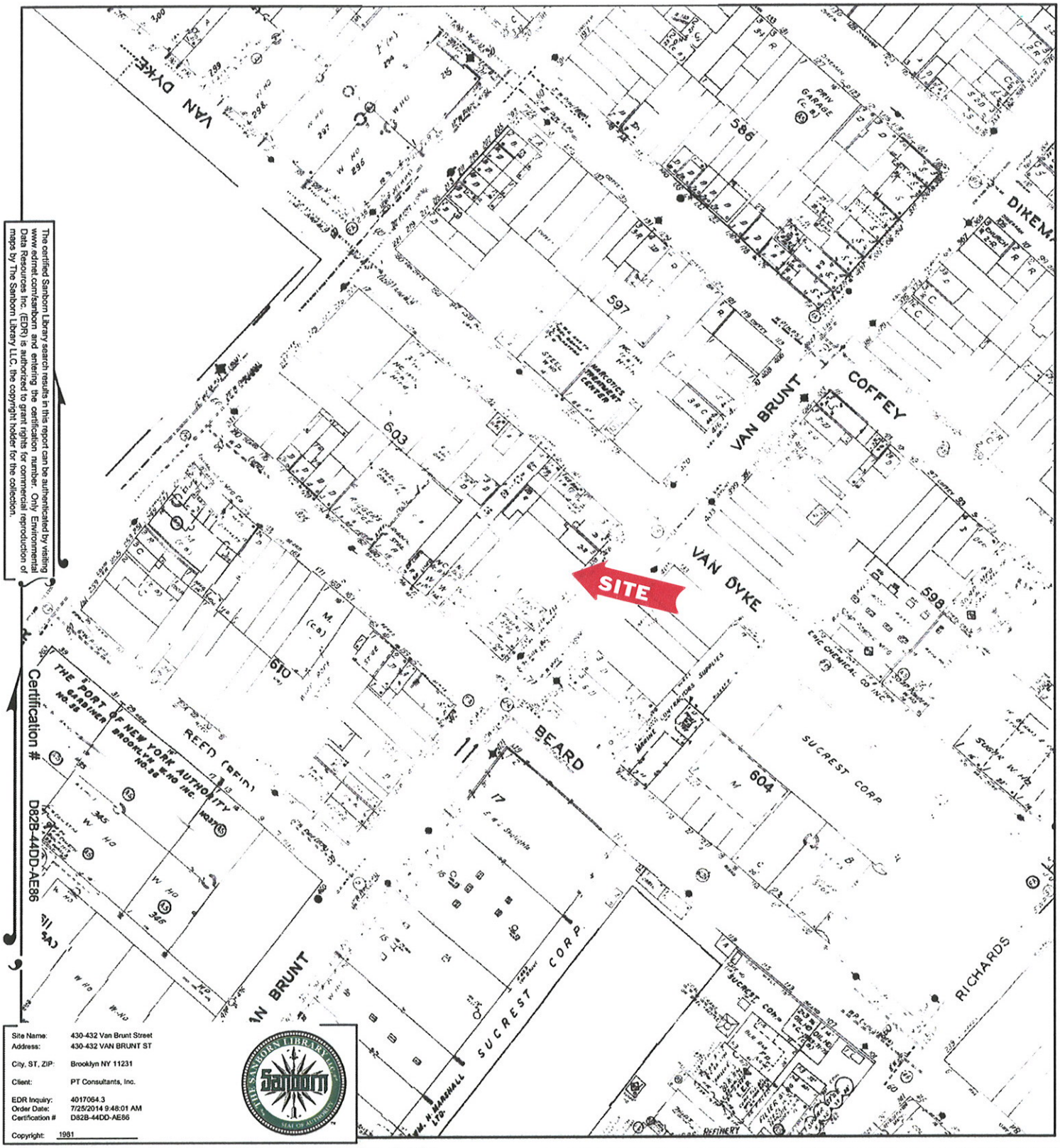


Volume 1, Sheet 11
Volume 1, Sheet 19

0 Feet 150 300 600

N

1981 Certified Sanborn Map



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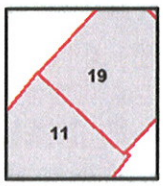
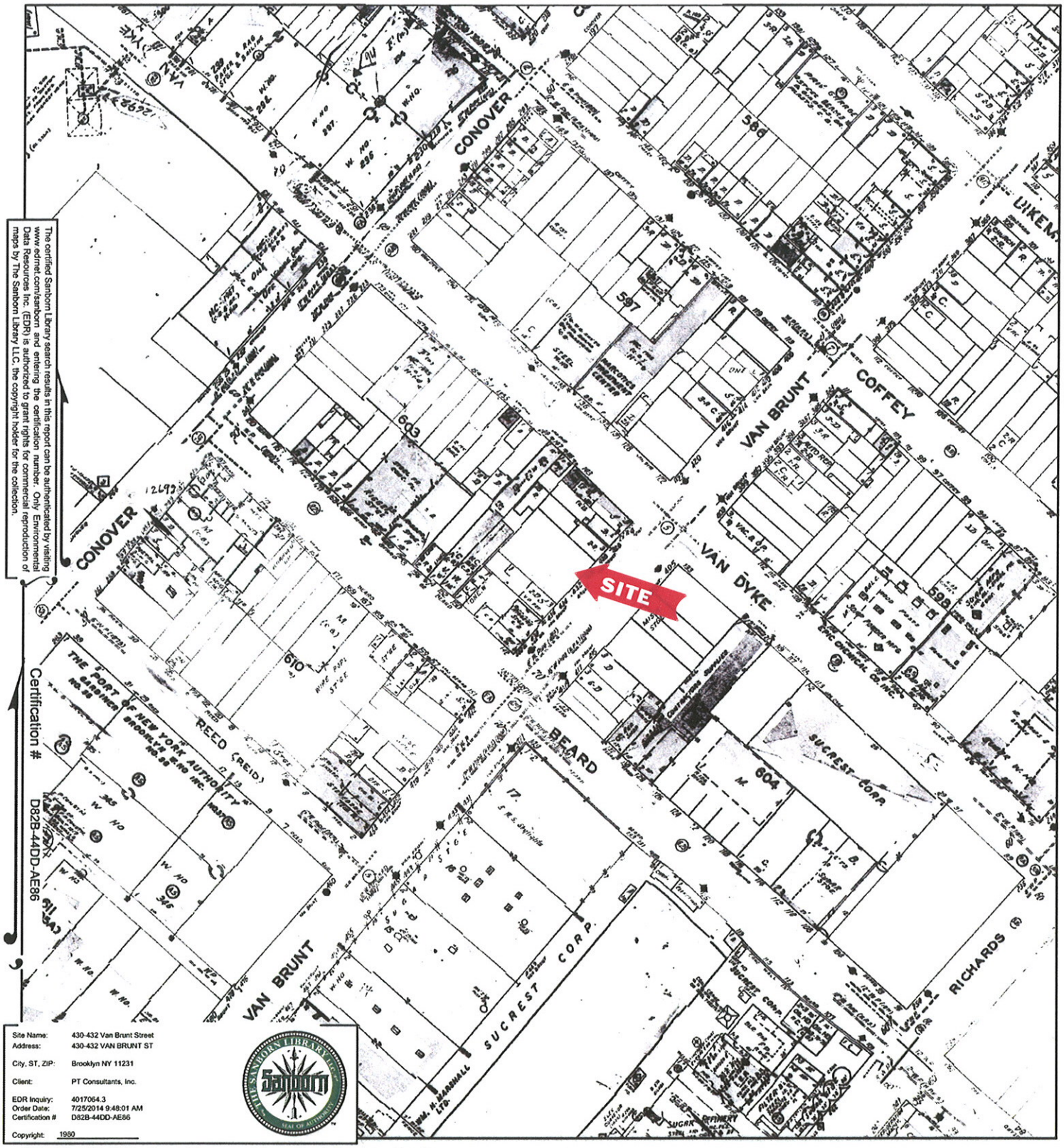


Volume 1, Sheet 11
Volume 1, Sheet 19

0 Feet 150 300 600

N

1980 Certified Sanborn Map



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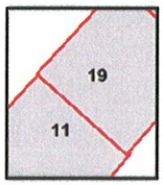
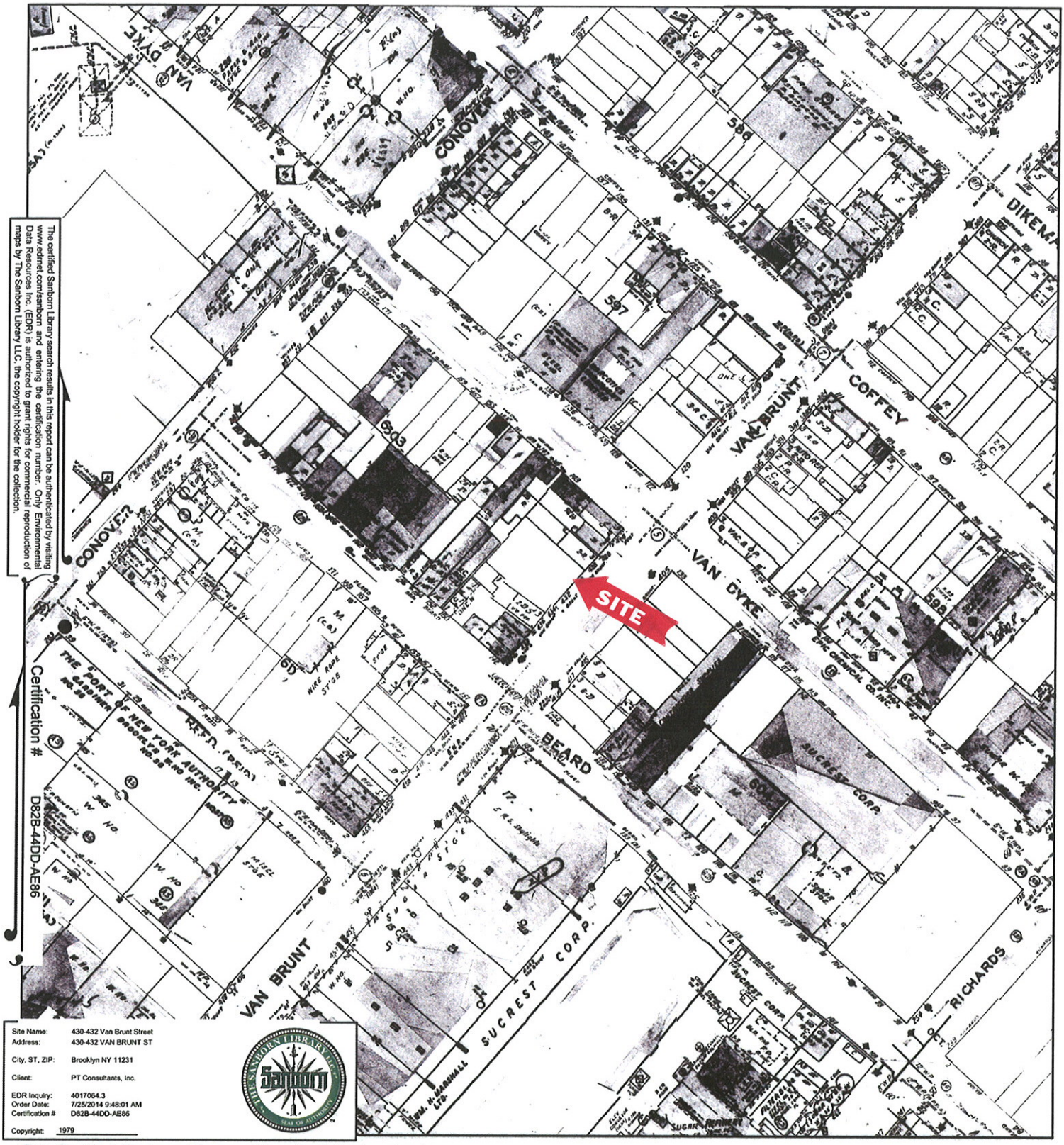


Volume 1, Sheet 11
Volume 1, Sheet 19

0 Feet 150 300 600

N

1979 Certified Sanborn Map



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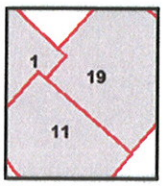
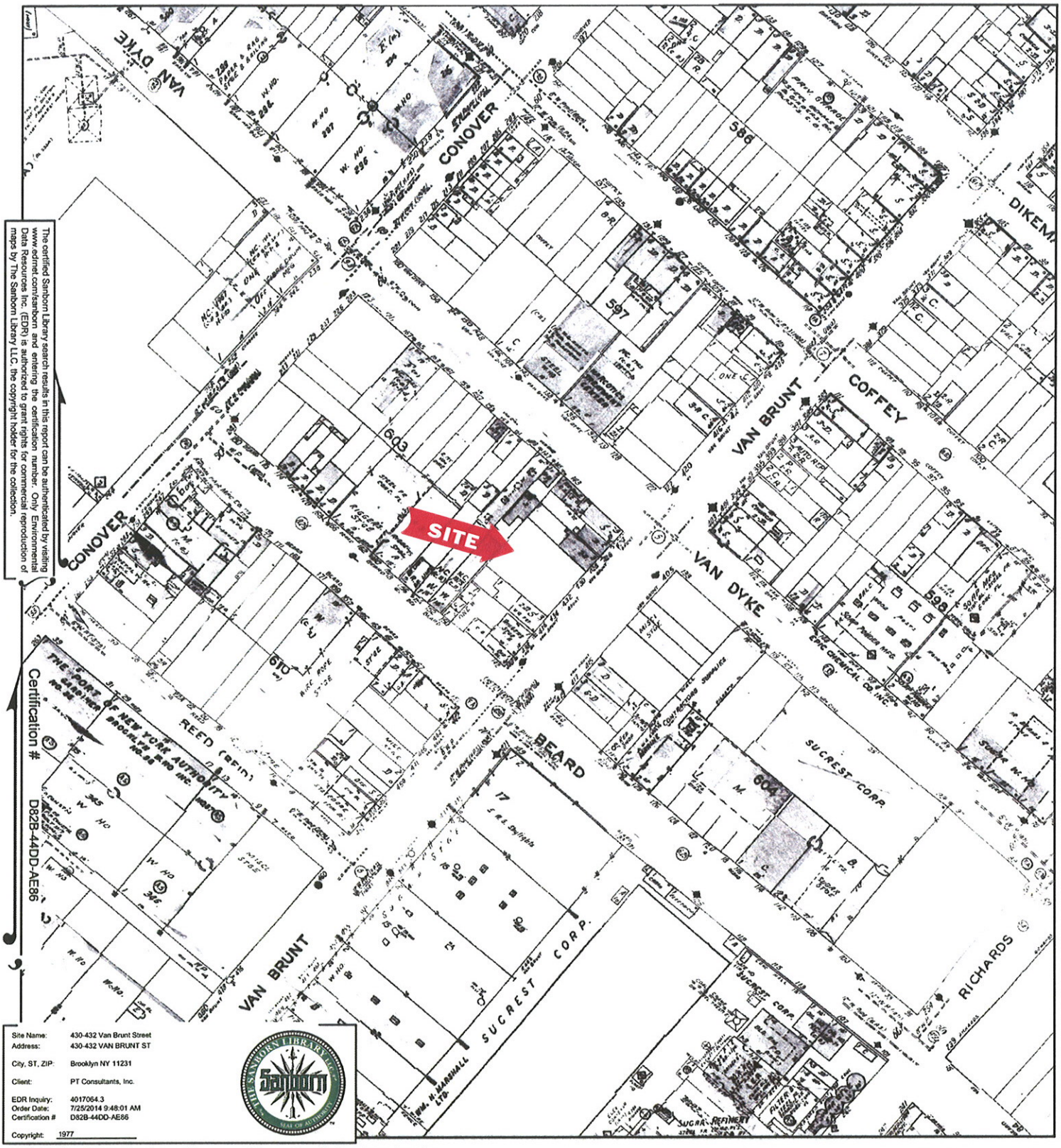


Volume 1, Sheet 19
Volume 1, Sheet 1
Volume 1, Sheet 11

0 Feet 150 300 600

N

1977 Certified Sanborn Map



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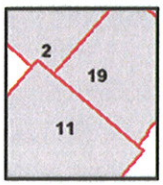
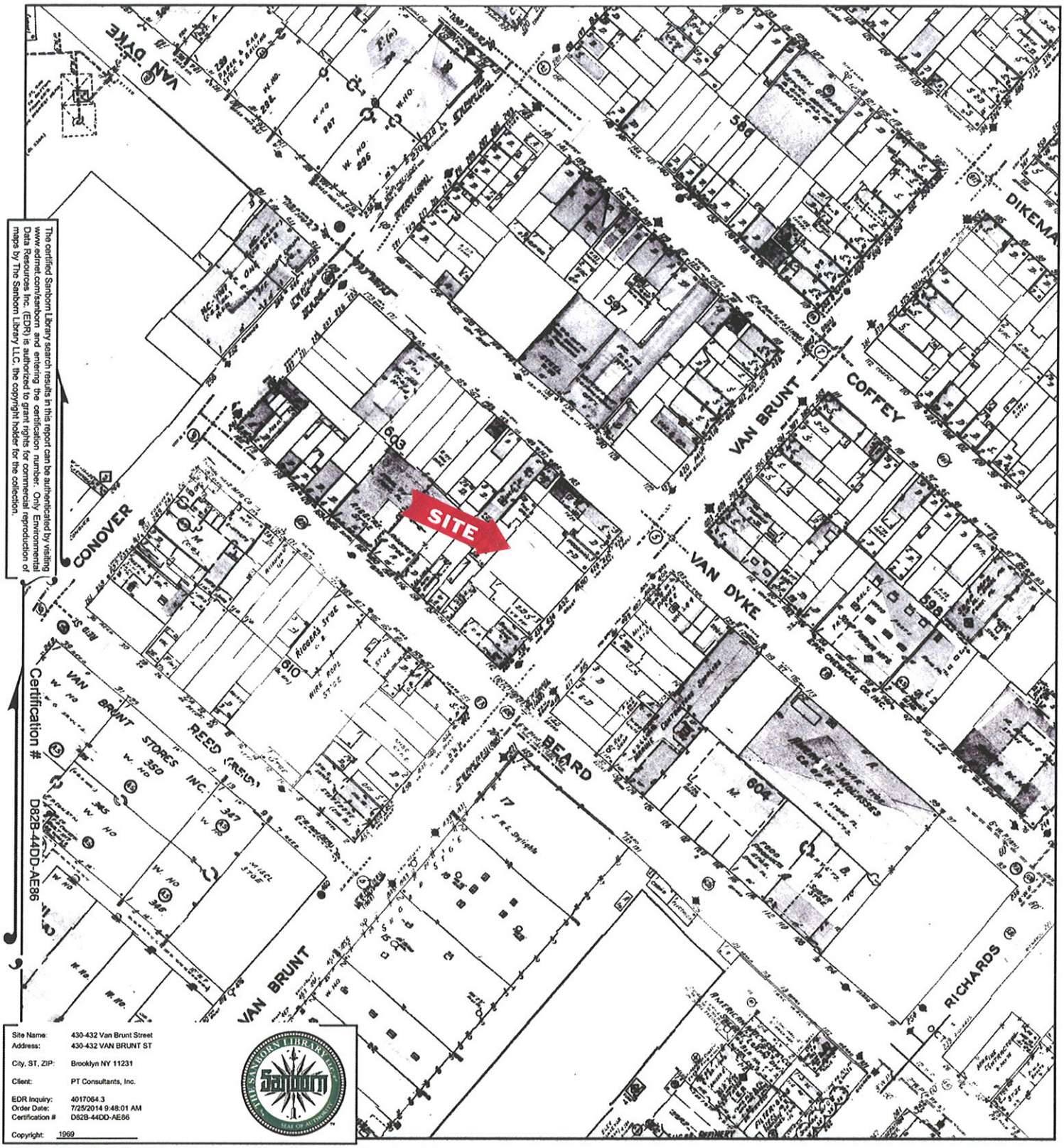


Volume 1, Sheet 11
Volume 1, Sheet 19
Volume 1, Sheet 2

0 Feet 150 300 600

N

1969 Certified Sanborn Map



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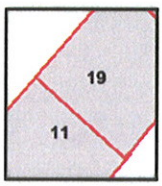
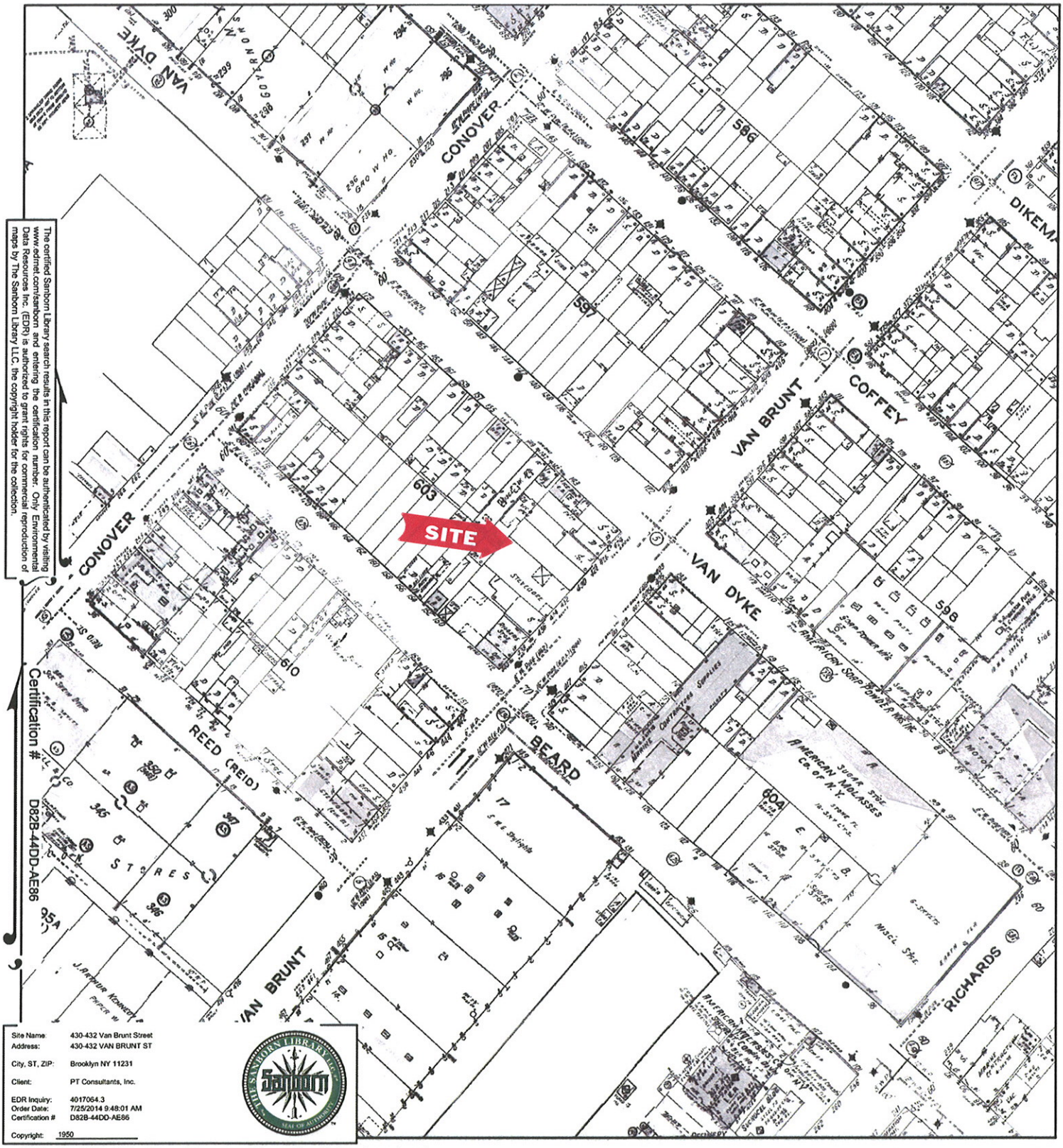


Volume 1, Sheet 11
Volume 1, Sheet 19

0 Feet 150 300 600

N

1950 Certified Sanborn Map



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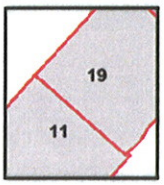
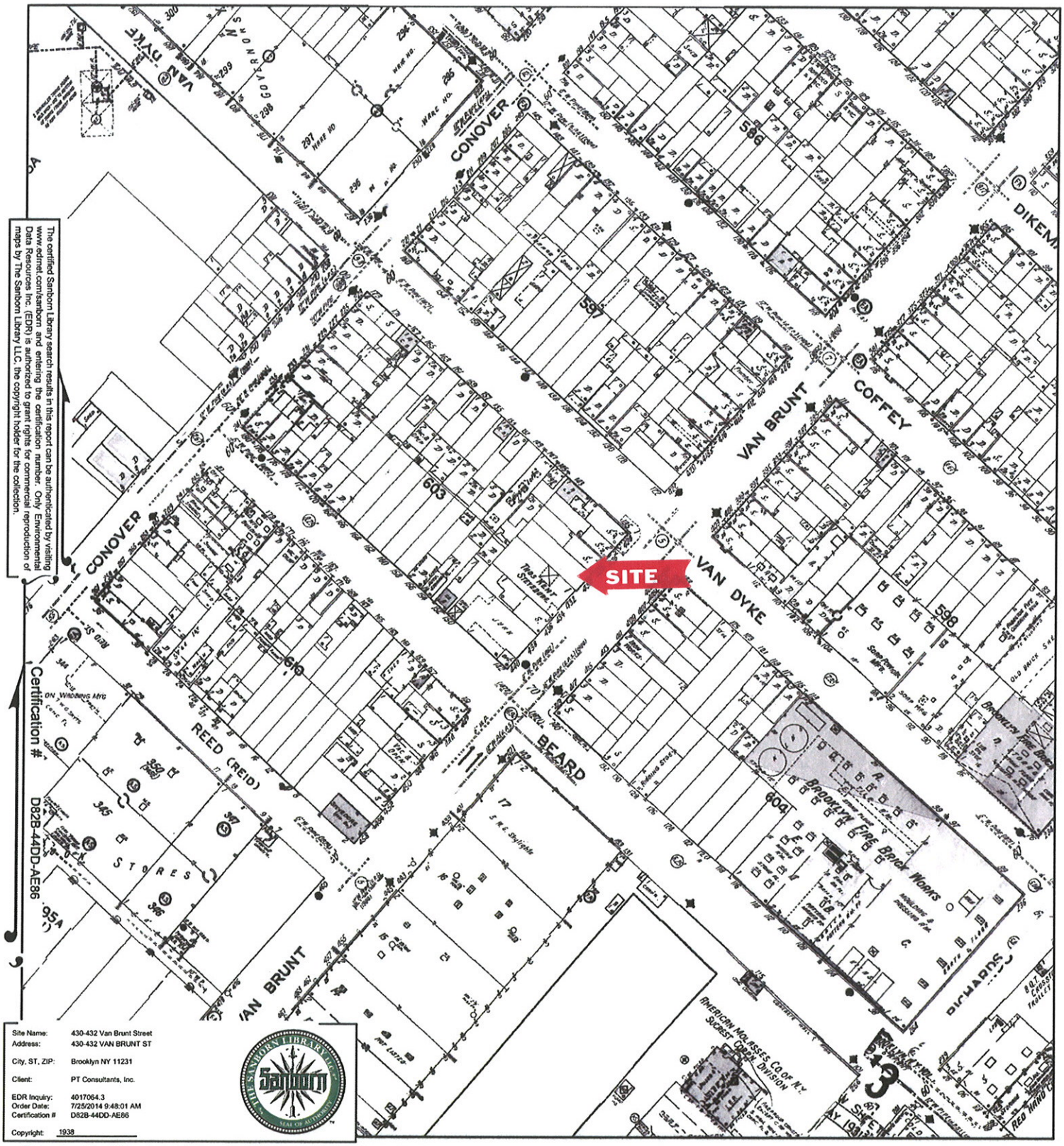


Volume 1, Sheet 11
Volume 1, Sheet 19

0 Feet 150 300 600

N

1938 Certified Sanborn Map



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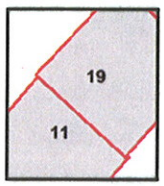

Volume 1, Sheet 19
Volume 1, Sheet 11

0 Feet 150 300 600

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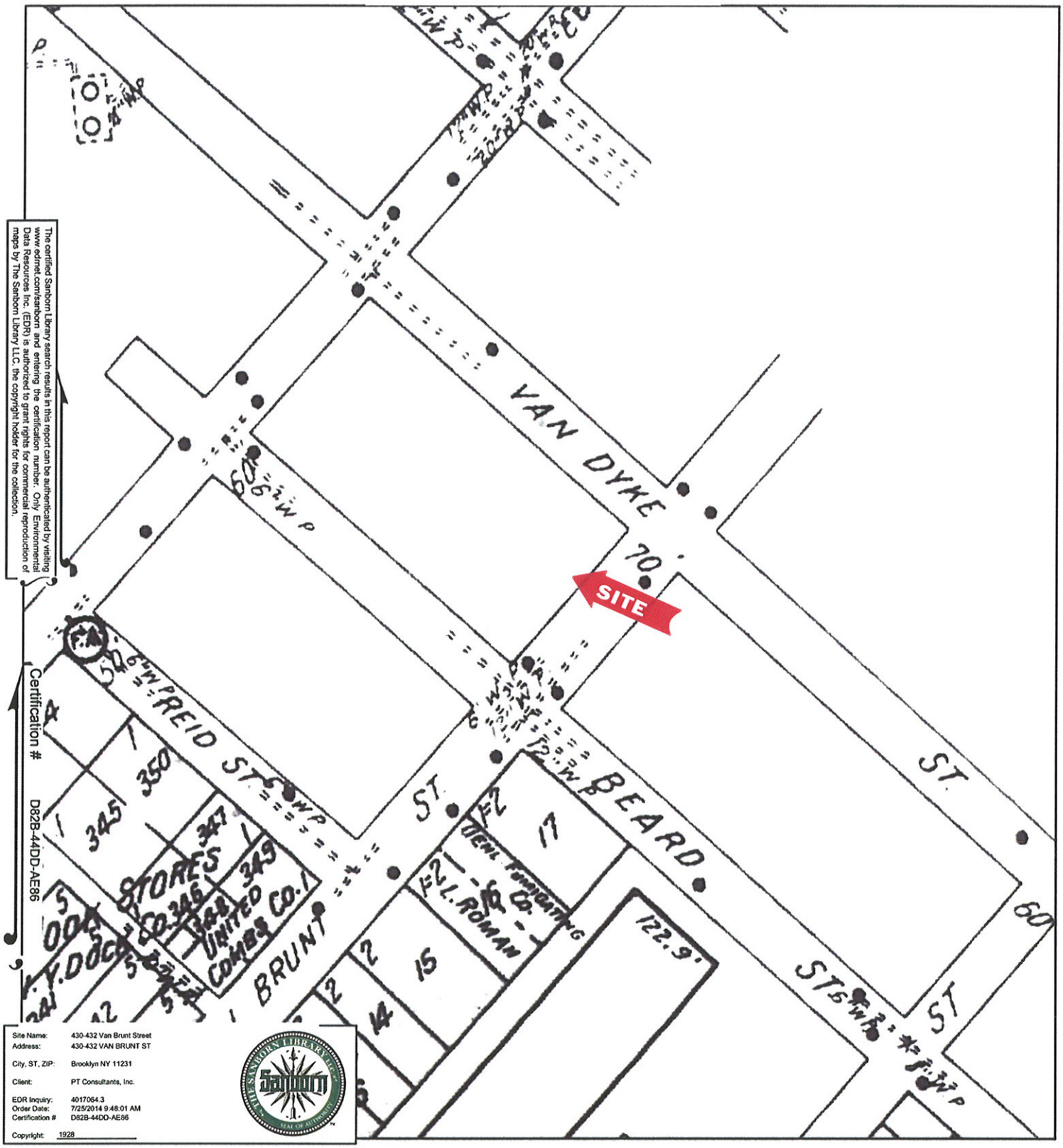
1928 Certified Sanborn Map



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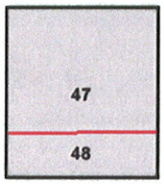
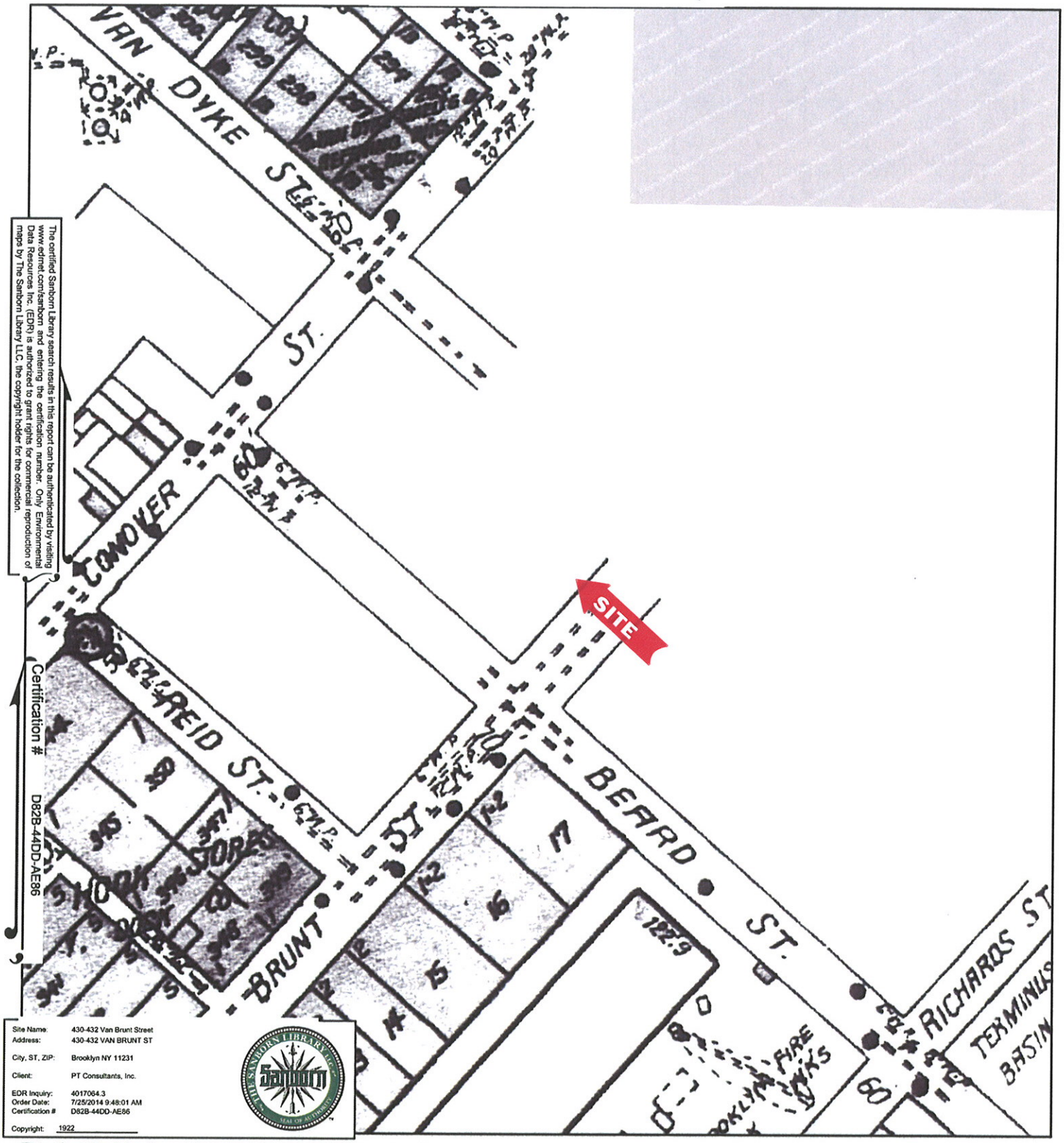


Volume Pier Maps, Sheet 47
Volume Pier Maps, Sheet 48

0 Feet 150 300 600

N

1922 Certified Sanborn Map



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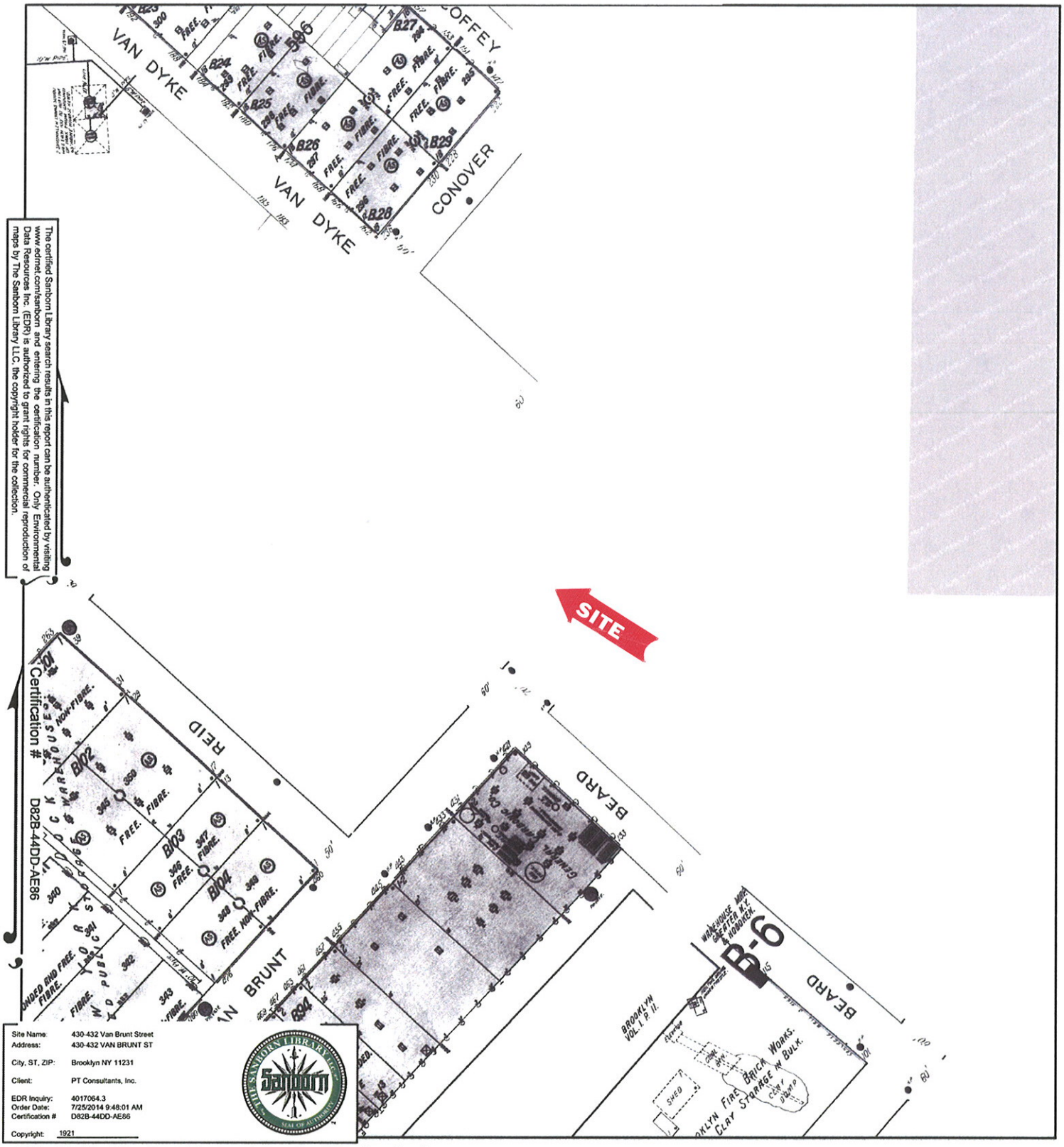
0 Feet 150 300 600

39

Volume Pier Maps, Sheet 39

N

1921 Certified Sanborn Map



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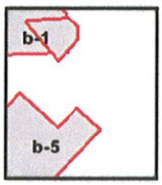

Volume Atlas Maps, Sheet b-1
Volume Atlas Maps, Sheet b-5

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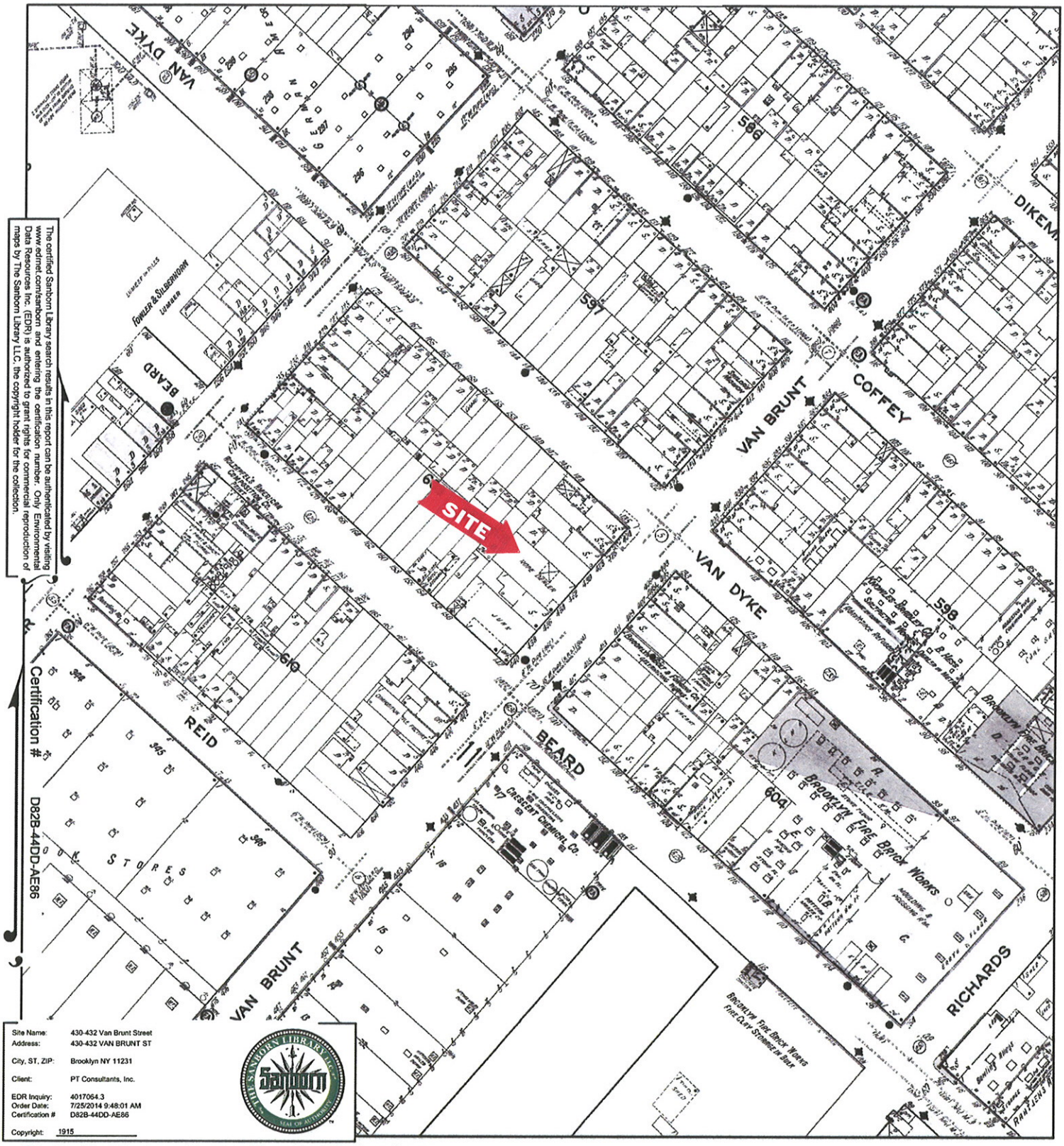
N

1915 Certified Sanborn Map



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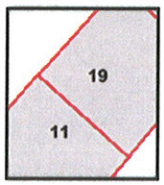

Volume 1, Sheet 11
Volume 1, Sheet 19

0 Feet 150 300 600

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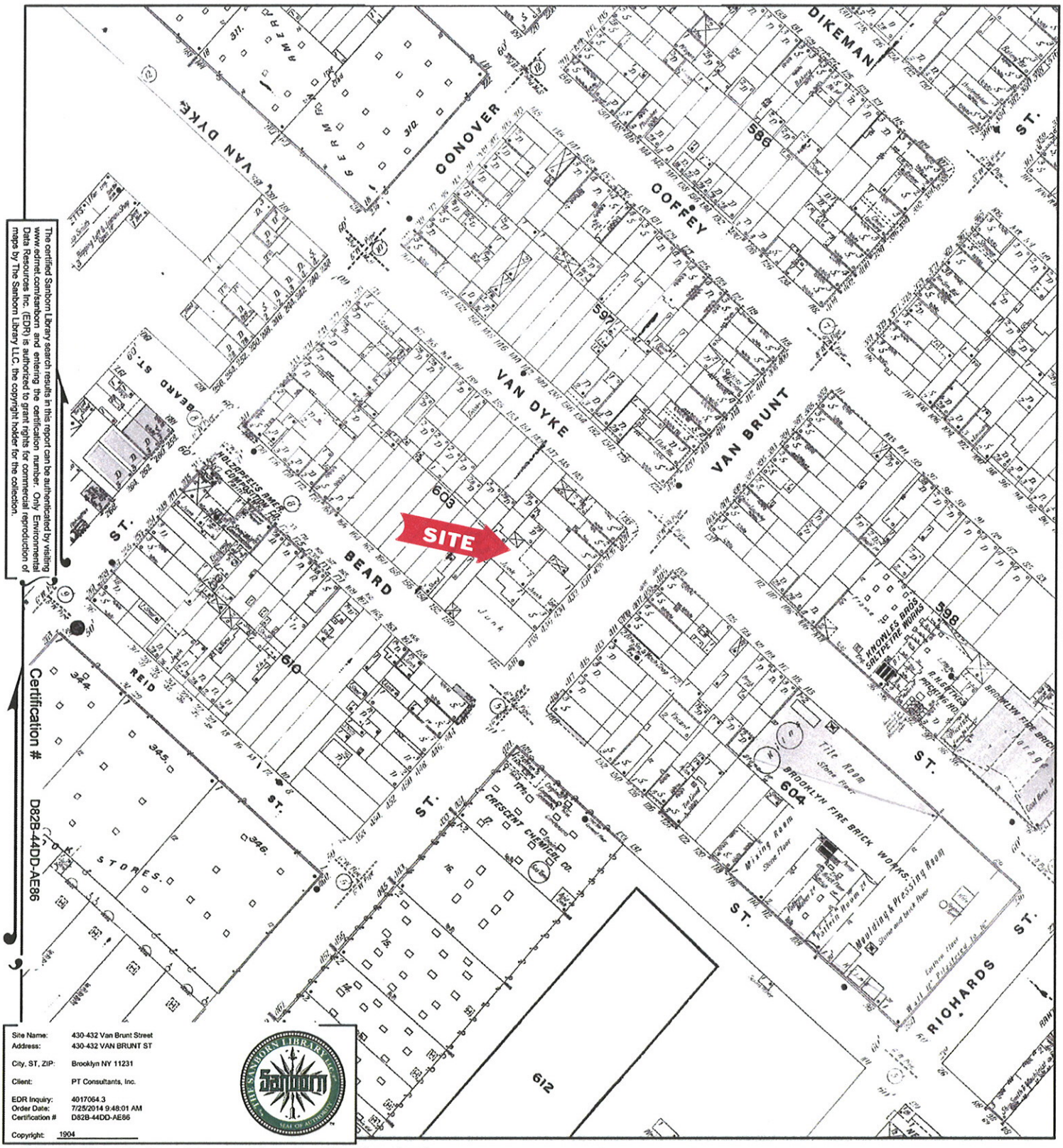
1904 Certified Sanborn Map



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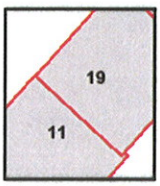
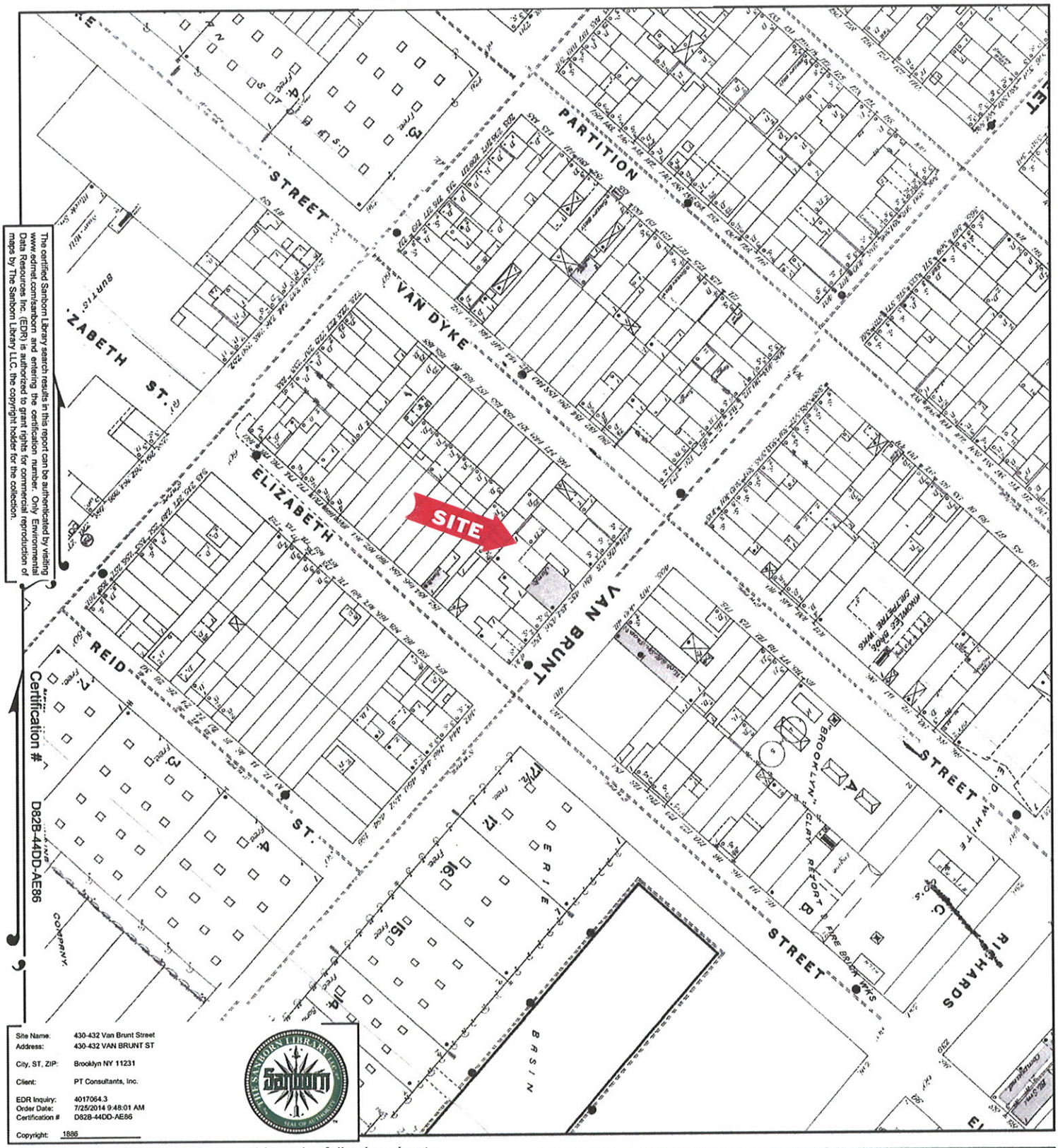


Volume 1, Sheet 11
Volume 1, Sheet 19

0 Feet 150 300 600

N

1886 Certified Sanborn Map



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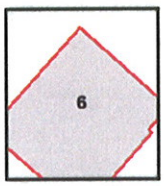

Volume 1, Sheet 6

N

APPENDIX 10
HISTORICAL TOPOGRPAHIC MAPS

430-432 Van Brunt Street
430-432 VAN BRUNT ST
Brooklyn, NY 11231

Inquiry Number: 4017064.4
July 24, 2014

EDR Historical Topographic Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topographic Map Report

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Historical Topographic Map

N	TARGET QUAD NAME: STATEN ISLAND MAP YEAR: 1891 SERIES: 15 SCALE: 1:62500	SITE NAME: 430-432 Van Brunt Street ADDRESS: 430-432 VAN BRUNT ST Brooklyn, NY 11231 LAT/LONG: 40.6756 / -74.0153	CLIENT: PT Consultants, Inc. CONTACT: Denis Cummings INQUIRY#: 4017064.4 RESEARCH DATE: 07/24/2014

Historical Topographic Map

N ↑	TARGET QUAD NAME: STATEN ISLAND MAP YEAR: 1900 SERIES: 15 SCALE: 1:62500	SITE NAME: 430-432 Van Brunt Street ADDRESS: 430-432 VAN BRUNT ST Brooklyn, NY 11231 LAT/LONG: 40.6756 / -74.0153	CLIENT: PT Consultants, Inc. CONTACT: Denis Cummings INQUIRY#: 4017064.4 RESEARCH DATE: 07/24/2014

Historical Topographic Map

N ↑						
	TARGET QUAD		SITE NAME:	430-432 Van Brunt Street	CLIENT:	PT Consultants, Inc.
	NAME:	PASSAIC	ADDRESS:	430-432 VAN BRUNT ST Brooklyn, NY 11231	CONTACT:	Denis Cummings
	MAP YEAR:	1900	LAT/LONG:	40.6756 / -74.0153	INQUIRY#:	4017064.4
	SERIES:	30			RESEARCH DATE:	07/24/2014
	SCALE:	1:125000				

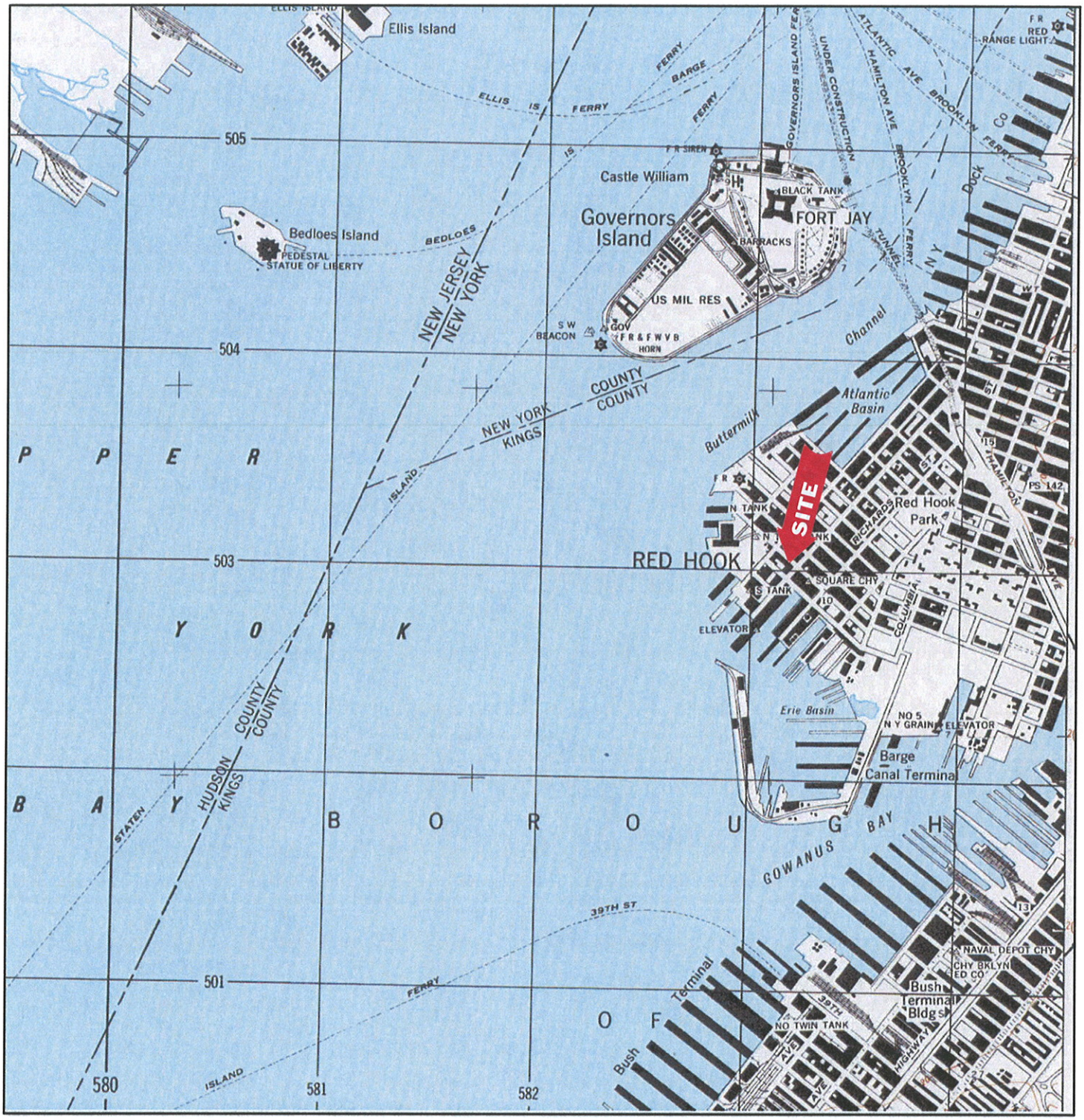
Historical Topographic Map

N	TARGET QUAD NAME: PASSAIC MAP YEAR: 1905 SERIES: 30 SCALE: 1:125000	SITE NAME: 430-432 Van Brunt Street ADDRESS: 430-432 VAN BRUNT ST Brooklyn, NY 11231 LAT/LONG: 40.6756 / -74.0153	CLIENT: PT Consultants, Inc. CONTACT: Denis Cummings INQUIRY#: 4017064.4 RESEARCH DATE: 07/24/2014

Historical Topographic Map

N	TARGET QUAD NAME: STATEN ISLAND MAP YEAR: 1925 REVISED FROM :1900 SERIES: 15 SCALE: 1:62500	SITE NAME: 430-432 Van Brunt Street ADDRESS: 430-432 VAN BRUNT ST Brooklyn, NY 11231 LAT/LONG: 40.6756 / -74.0153	CLIENT: PT Consultants, Inc. CONTACT: Denis Cummings INQUIRY#: 4017064.4 RESEARCH DATE: 07/24/2014

Historical Topographic Map



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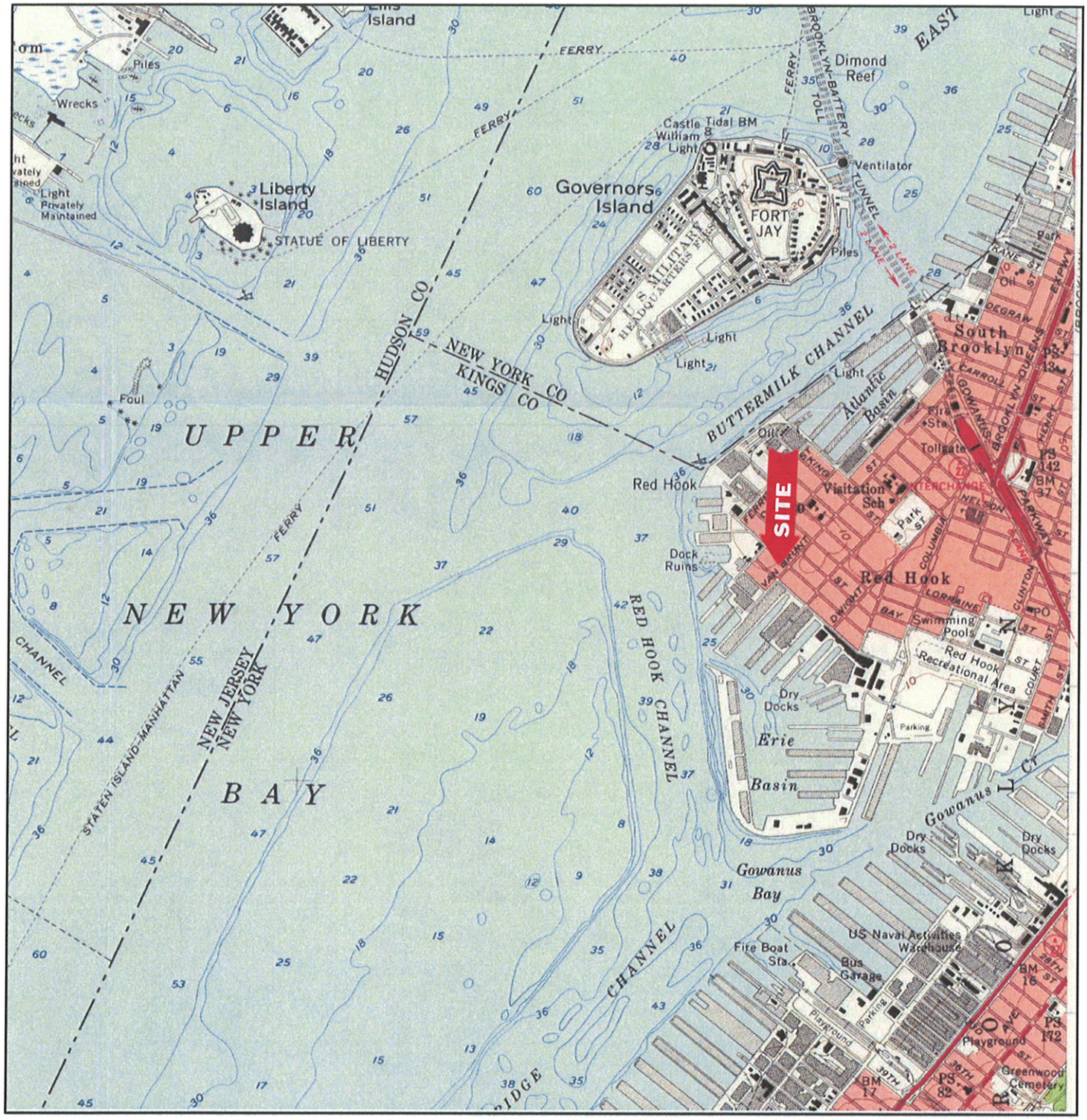
Historical Topographic Map



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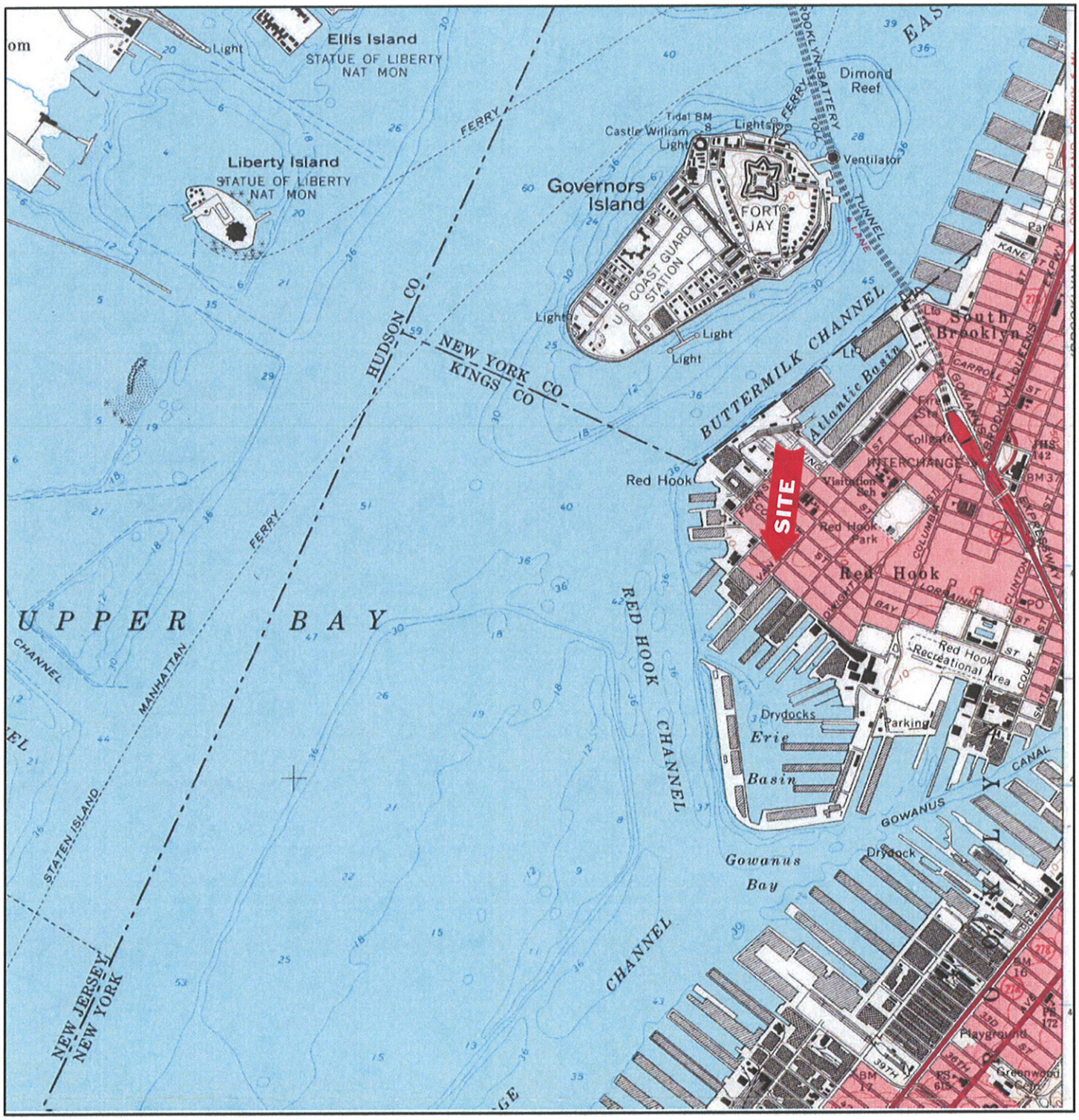
Historical Topographic Map



N	TARGET QUAD NAME: JERSEY CITY MAP YEAR: 1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 430-432 Van Brunt Street ADDRESS: 430-432 VAN BRUNT ST Brooklyn, NY 11231 LAT/LONG: 40.6756 / -74.0153	CLIENT: PT Consultants, Inc. CONTACT: Denis Cummings INQUIRY#: 4017064.4 RESEARCH DATE: 07/24/2014

Historical Topographic Map

N	TARGET QUAD NAME: JERSEY CITY MAP YEAR: 1981 PHOTOREVISED FROM :1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 430-432 Van Brunt Street ADDRESS: 430-432 VAN BRUNT ST Brooklyn, NY 11231 LAT/LONG: 40.6756 / -74.0153	CLIENT: PT Consultants, Inc. CONTACT: Denis Cummings INQUIRY#: 4017064.4 RESEARCH DATE: 07/24/2014

APPENDIX 11
CITY DIRECTORY SEARCH

430-432 Van Brunt Street
430-432 VAN BRUNT ST
Brooklyn, NY 11231

Inquiry Number: 4017064.5
July 25, 2014

The EDR-City Directory Abstract

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1928 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 100 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2013	Cole Information Services	-	-	-	-
	Cole Information Services	-	X	X	-
2008	Cole Information Services	-	X	X	-
2005	Hill-Donnelly Corporation	-	X	X	-
2000	Cole Information Services	-	X	X	-
1997	NYNEX	-	X	X	-
1992	NYNEX Informantion Resource Co.	-	-	-	-
1985	NYNEX Information Resources Company	-	-	-	-
1980	New York Telephone	-	-	-	-
1976	New York Telephone	-	X	X	-
1973	New York Telephone	-	-	-	-
1970	New York Telephone	-	X	X	-
1965	New York Telephone	-	X	X	-
1960	New York Telephone	-	X	X	-
	New York Telephone Company	-	X	X	-
1949	New York Telephone	-	X	X	-
1945	New York Telephone	-	X	X	-
1940	New York Telephone	-	X	X	-
1934	R. L. Polk & Co.	-	X	X	-
1928	New York Telephone	-	X	X	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	*Type*	*Findings*
430 VAN BRUNT STREET	Client Entered	
432 VAN BRUNT STREET	Client Entered	
405 VAN BRUNT STREET	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

430-432 VAN BRUNT ST
Brooklyn, NY 11231

FINDINGS DETAIL

Target Property research detail.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

VAN BRUNT

411 VAN BRUNT

Year	Uses	Source
1960	PORT SMITHS INC	New York Telephone
1934	BRADLEY JAS A V PRES-SEC PORT ENGINEERING WORKS INC	R. L. Polk & Co.

413 VAN BRUNT

Year	Uses	Source
1934	O NEILL EDWIN MRS R	R. L. Polk & Co.
	HYLAN WM LAB R	R. L. Polk & Co.
	HYLAN DANL LAB R	R. L. Polk & Co.
	HANEY JOHN IRONWKR H	R. L. Polk & Co.
1928	LEDWIN IDA MRS R	New York Telephone

415 VAN BRUNT

Year	Uses	Source
1976	MILDRED S LUNCHEOHETTE	New York Telephone
	SURILLO T	New York Telephone
1960	BEARY CATHERINE MRS	New York Telephone
1934	KOSTYRKA CONSTANT IRONWKR H	R. L. Polk & Co.

434 VAN BRUNT

Year	Uses	Source
1960	BANKS WM RIGRS	New York Telephone
	MARITIME TESTING CORP	New York Telephone

VAN BRUNT ST

405 VAN BRUNT ST

Year	Uses	Source
2013	EVERLAST CUSTOM CONSTRUCTION CORP	Cole Information Services
2008	EVERLASTING CUSTOM CONSTRUCTION CORP	Cole Information Services

FINDINGS

411 VAN BRUNT ST

Year	Uses	Source
1970	Port Smitns Inc	New York Telephone
1965	Port Smiths Inc	New York Telephone
1960	Port Smiths Inc	New York Telephone Company
1945	Port Engnrng Wks	New York Telephone
1940	Port Engineering Wks Inc	New York Telephone

415 VAN BRUNT ST

Year	Uses	Source
2005	h Oquita Richard	Hill-Donnelly Corporation
2000	4 DORIS LOECHLE	Cole Information Services
	3 JACK MORTENSBAK	Cole Information Services
	THOMAS J SCHNALDT	Cole Information Services
	1 TERENCE ACCOLA	Cole Information Services
	APARTMENTS	Cole Information Services
1997	SUZUKI Tomohiro	NYNEX
	STEVENS Aishe	NYNEX
	PAIR Darrow	NYNEX
	FRATESI Joseph	NYNEX
	CUMMINS K	NYNEX
	BRENDAN Guy	NYNEX
1960	Beary Catherine Mrs	New York Telephone Company
1949	Beary Catherine Mrs	New York Telephone
1945	Beary Marion	New York Telephone
	Beary M C	New York Telephone

434 VAN BRUNT ST

Year	Uses	Source
1960	Banks Wm rigrs	New York Telephone Company
1949	Banks Wm riggers	New York Telephone
1945	Banks Wm Jr rigger	New York Telephone
	Red Hook Rigging Co	New York Telephone
1940	Banks Wm rigger	New York Telephone

436 VAN BRUNT ST

Year	Uses	Source
2008	ONE ELEVEN INTERACTIVE INC	Cole Information Services

FINDINGS

VAN BRUNT STREET

405 VAN BRUNT STREET

Year	*Uses*	*Source*
2005	Tarr Nadia v	Hill-Donnelly Corporation

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
430-432 VAN BRUNT ST	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928

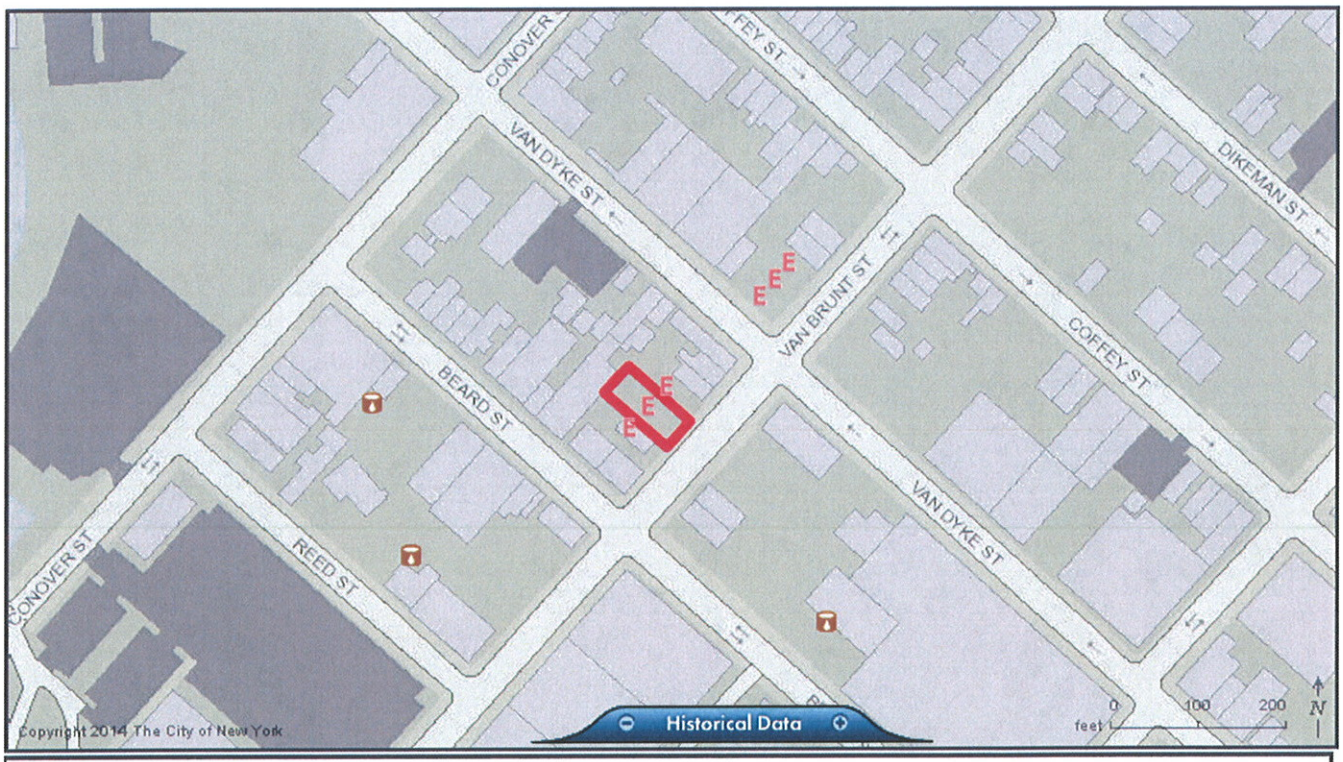
ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
405 VAN BRUNT ST	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
405 VAN BRUNT STREET	2013, 2008, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
411 VAN BRUNT	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1949, 1945, 1940, 1928
411 VAN BRUNT ST	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1949, 1934, 1928
413 VAN BRUNT	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940
415 VAN BRUNT	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1973, 1970, 1965, 1949, 1945, 1940, 1928
415 VAN BRUNT ST	2013, 2008, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1940, 1934, 1928
434 VAN BRUNT	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1949, 1945, 1940, 1934, 1928
434 VAN BRUNT ST	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1934, 1928
436 VAN BRUNT ST	2013, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928

APPENDIX 12
ENVIRONMENTAL DATABASE GIS MAP

NYCityMap



E NYC E-Designation Sites (E)

NYS Open Petroleum Spill Locations

NYS Petroleum Bulk Storage Sites (PBS)

NYS Resource Conservation & Recovery Act Facilities (RCRA)

NYCityMap

E NYC E-Designation Sites (E)

NYS Open Petroleum Spill Locations

NYS Petroleum Bulk Storage Sites (PBS)

NYS Resource Conservation & Recovery Act Facilities (RCRA)

APPENDIX 13
PHASE I ESA CHECKLIST

PT Consultants, Inc.
Phase I Inspection Check List

Date: 7/24/2014
Site Name: 430-434 Van Brunt Street
Address: 430-434 Van Brunt Street
City or Town: Brooklyn State: NY Zip Code: 11231
Municipality: Brooklyn County: Kings
Block(s): 603 Lots(s): 23 & 24

Buildings:	NA		
Year Constructed:	NA	Material:	NA
Approximate Size:	NA		
Utilities:	NA		

Recognized Environmental Condition (REC)	Currently or Formerly Exists at the Site Yes/No	Description of REC	Phase II Recommended Yes/No
Aboveground Storage Tanks and Associated Piping	No		
Underground Storage tanks and Associated Piping	Potential	Site historically developed prior to 1960's. Features associated with such unknown	Yes
Silos	No		
Rail Cars	No		
Loading and unloading areas	No		
Piping, above ground and below ground pumping stations, sumps and pits	No		

Storage pads including drum and/or waste storage	Yes	Several staging areas consisting of trucks, trailers, miscellaneous building materials, solid waste debris were. PT also observed a total of five (5) 5-gallon pails of mastic and hydraulic fluid situated at various locations throughout the subject property	No
Surface impoundments and lagoons	No		
Dumpsters	No		
Chemical storage cabinets or closets	Yes	A storage container, which is utilized for the housing of building materials, compressed gas cylinders, and one (1) 55-gallon polyethylene drum, was observed within the northern corner of the subject property. The contents of the drum are unknown and at the time in which the inspection was completed, the drum was noted as having been staged on its side allowing the contents of such to spill onto the wooden floor of the storage container.	Yes
Floor drains, trenches and piping and sumps	No		
Process area sinks and piping which receive process waste	No		
Roof leaders when process operations vent to the roof	No		
Drainage swales & culverts	No		
Storm sewer collection systems	No		
Storm water detention ponds and fire ponds	No		
Surface water bodies	No		
Septic systems leachfields or seepage pits	No		
Drywells and sumps	No		

Areas of discharge	Yes	One (1) 55-gallon steel drum was observed within the northern portion of the property. The contents of the drum are unknown. PT noted the structural integrity of the drum appeared to have been compromised, causing it to rupture and discharge its contents onto the ground surface	Yes
Waste piles	No		
Waste water collection systems including septic systems, seepage pits, & dry wells.	No		
Landfills or landfarms	No		
Sprayfields	No		
Incinerators	No		
Historic Fill or any other Fill material	Yes	Two (2) small soil piles and test pit excavations situated along the center of the northern and southern property boundaries, respectively. Various layers of fill were observed throughout the soils piles as well as along the sidewalls of the excavated areas	Yes
Open Pipe discharges	No		
Electrical Transformers & Capacitors	No		
Hazardous material storage or handling areas	No		
Waste Treatment areas	No		
Discolored or spill areas	No		
Open areas away from production areas	No		

Areas of stressed vegetation	No		
Underground piping including industrial process sewers	No		
Compressor vent discharges	No		
Non-contact cooling water discharges	No		
Areas which receive flood or storm water from potentially contaminated areas	No		
Active or Inactive production wells	No		
Loading or Transfer areas	No		
Boiler rooms	No		
Air vents and ducts	No		
Fluorescent Lights	No		
Wetlands	No		
Asbestos Containing Materials	No		
Lead Based Paint	No		
Mold Impacted or water damaged materials	No		

Neighboring Properties	
Direction	Description of Property
North	The property is bordered directly north by residential properties followed by Van Dyke Street.
South	The property is bordered to the south by Van Brunt Street followed by residential and commercial properties.
East	The property is bordered to the east by residential and commercial properties followed by the intersection of Van Brunt Street and Van Dyke Street.
West	The property is bordered to the west by residential properties followed by Beard Street.

PT Inspector D. Cummings Date 7/24/2014

APPENDIX 14
PHOTO DOCUMENTATION

Photograph 1: View of the subject property

Photograph 2: View of the subject property facing southeast from the rear boundary

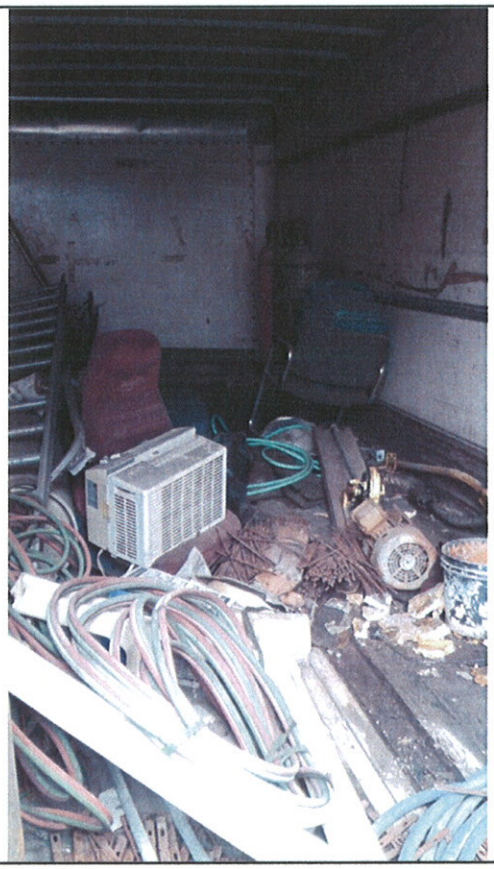
Photograph 3: Typical storage areas

Photograph 4: Typical storage areas

Photograph 5: Typical storage areas

Photograph 6: Ruptured drum situated along the northern property boundary

Photograph 7: Minor surface staining situated beneath truck staged on-site



Photograph 8: Interior portions of the storage container

Photograph 9: Leaking 55-gallon poly drum located within storage container

Photograph 10: Fill layers noted within soil piles

APPENDIX 4

PHASE II WORK PLAN

Phase II Work Plan

For

430-434 Van Brunt Street

Block 603, Lot(s) 23 & 24

OER Project Number 15EHAZ292K

E-Designation E-110

CEQR Number 00DME013K

Red Hook Stores Redevelopment / Rezoning

Prepared for:

STREKTE

P.O. Box 21041

Brooklyn, New York 11202

paul@strekte.com

Prepared by:

PT Consultants, Inc.

121 West 27th Street, Suite 1004

New York, New York, 10001

bradsummerville@ptconsultantsinc.com

(917) 338-3086

MARCH 2015

PHASE II WORK PLAN

TABLE OF CONTENTS

TABLE OF CONTENTS II

LIST OF ACRONYMS IV

PHASE II WORK PLAN 1

1.0 INTRODUCTION 1

1.1 Site Location and Current Usage 1

1.2 Proposed Redevelopment Plan 1

1.3 Description of Surrounding Property 2

2.0 PREVIOUS ENVIRONMENTAL DOCUMENTATION 3

2.1 Environmental Investigation Reports 3

2.2 Summary of Regulatory Correspondence 3

2.3 Phase I Summary 3

2.4 Findings of Previous Environmental Investigation (if applicable) 4

3.0 PHASE II ENVIRONMENTAL SITE INVESTIGATION 4

3.1 Investigation Rationale 4

3.2 Investigation Procedures 5

3.3 Sample Analysis 9

3.4 Reporting 9

4.0 QUALITY ASSURANCE/QUALITY CONTROL 10

4.1 Quality Assurance/Quality Control Procedures 10

4.2 Field QA/QC 10

4.3 Sample Custody 11

4.4 Report Logs 12

4.5 Laboratory QA/QC 13

5.0 HEALTH AND SAFETY PLAN (HASP) 14

5.1 Health and Safety Plan (HASP) 14

FIGURES

Figure 1: Site Location Map

Figure 2: Proposed Site Development Plan

Figure 3: Proposed Sample Location Map

APPENDICES

Appendix 1: Health and Safety Plan

Appendix 2: Building Layouts

Appendix 3: Foundation Plan

Appendix 4: Previous Environmental Investigation Reports

4A: Phase I Environmental Site Assessment

4B: Geophysical Investigation Report

Appendix 5: NYCOER Sampling Requirements Email

LIST OF ACRONYMS

Acronym	Definition
AST	Aboveground Storage Tank
CAMP	Community Air Monitoring Plan
C&D	Construction & Demolition
CEQR	City Environmental Quality Review
CFR	Code of Federal Regulations
CHASP	Construction Health and Safety Plan
CO	Certificate of Occupancy
CPC	City Planning Commission
DSNY	Department of Sanitation
"E"	E-Designation
EAS	Environmental Assessment Statement
EIS	Environmental Impact Statement
ESA	Environmental Site Assessment
EC/IC	Engineering Control and Institutional Control
ELAP	Environmental Laboratory Accreditation Program
FDNY	New York City Fire Department
GPR	Ground Penetrating Radar
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations Emergency Response
IDW	Investigation Derived Waste
Notice - NNO	Notice of No Objection
Notice - NTP	Notice To Proceed
Notice - NOS	Notice Of Satisfaction
Notice - FNOS	Final Notice of Satisfaction
NYC BSA	New York City Board of Standards and Appeals
NYC DCP	New York City Department of City Planning
NYC DEP	New York City Department of Environmental Protection
NYC DOB	New York City Department of Buildings
NYC DOF	New York City Department of Finance
NYC HPD	New York City Housing Preservation and Development

NYCRR	New York Codes Rules and Regulations
NYC OER	New York City Office of Environmental Remediation
NYS DEC	New York State Department of Environmental Conservation
NYS DEC DER	New York State Department of Environmental Conservation Division of Environmental Remediation
NYS DEC PBS	New York State Department of Environmental Conservation Petroleum Bulk Storage
NYS DOH	New York State Department of Health
NYS DOT	New York State Department of Transportation
OSHA	United States Occupational Health and Safety Administration
PAHs	Polycyclic Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
PE	Professional Engineer
PID	Photo Ionization Detector
PM	Particulate Matter
QEP	Qualified Environmental Professional
RA	Register Architect
RAP	Remedial Action Plan
RCA	Recycled Concrete Aggregate
RCR	Remedial Closure Report
RD	Restrictive Declaration
RI	Remedial Investigation
SCOs	Soil Cleanup Objectives
SCG	Standards, Criteria and Guidance
SMP	Site Management Plan
SPDES	State Pollutant Discharge Elimination System
SSDS	Sub-Slab Depressurization System
SVOCs	Semi-Volatile Organic Compounds
USCS	Unified Soil Classification System
USGS	United States Geological Survey
UST	Underground Storage Tank
TAL	Target Analyte List
TCL	Target Compound List
TCO	Temporary Certificate of Occupancy

VB	Vapor Barrier
VOCs	Volatile Organic Compounds

PHASE II WORK PLAN

1.0 INTRODUCTION

This Phase II Environmental Site Investigation (ESI) Work Plan and Health and Safety Plan (HASP) have been developed for property located at 430 – 434 Van Brunt Street in the Red Hook section of Brooklyn, New York (the Site). This project has been assigned project number 15EHAZ292K by OER. This Work Plan describes the proposed investigation that will address the environmental concerns identified in the Phase I Environmental Site Assessment (ESA) report prepared by PT Consultants, Inc. dated August 21, 2014 at the Site in coordination with the New York City Office of Environmental Remediation (OER). An E-Designation for Hazardous Materials (E-110) was placed on the Site by the New York City Department of City Planning (DCP) as part of the January 30, 2002 Red Hook Stores Redevelopment / Rezoning project (CEQR 00DME013K). The site-specific HASP (**Appendix 1**) addresses potential hazards, contaminants of concern based on past use, and safety requirements associated with investigation activities in accordance with ASTM and OSHA guidelines.

1.1 Site Location and Current Usage

The Site is located in the Red Hook section of Brooklyn, New York and is identified as Block 603 and Lot(s) 23 & 24 on the New York City Tax Map. **Figure 1** is a Site location map. The Site is 5,850-square feet and is bounded by mixed use residential and commercial properties to the north, east, and west, and Van Brunt Street to the south. Currently, the Site is used for the storage of construction equipment and trailers. It is currently undeveloped.

Lot 23 (430 Van Brunt Street) will remain as a single lot sized at 25 feet by 90 feet. Lot 24 (432 Van Brunt Street) will be subdivided into two (2) lots sized at 20 feet by 90 feet each. The CEQR number assigned to the project is 00DME013K. Department of Buildings Job Number 3846916 has been assigned to the project.

1.2 Proposed Redevelopment Plan

The proposed use of the Site will consist of three (3), five-story mixed use buildings. The buildings will contain a garage and commercial space at the grade level and a single residential unit on the 1st, 2nd, 3rd, and 4th stories. No subgrade level is proposed. The building foundation

will be on pile caps limiting planned soil disturbance. The grade level will be slab on grade for the interior garage and commercial space with a 10 foot (ft) rear yard area that is covered with asphalt. The building at 430 Van Brunt Street will be approximately 5,090 square feet (sq ft) in gross area with a building footprint of approximately 1,890 sq ft. The 432 and 434 Van Brunt Street buildings will have a gross area of 3,380 sq ft and a building footprint of 1,180 sq ft each. The proposed building layouts are included in **Appendix 2**.

Layout of the proposed site development is presented in **Figure 2**. The current zoning designation for the property is mixed use and residential (M1-1/R5).

At the writing of this work plan, foundation piles are planned to consist of helical piles or drilled caissons. A foundation plan is included as **Appendix 3**. Maximum length of the piles is expected to be 30 feet. Pile caps are expected to be approximately 2 feet deep. Including proposed foundation walls, grade beams, and slab excavation, approximately 260 cubic yards (yd^3) or 175 tons of soil will be excavated from the property.

Groundwater is expected to be encountered at depths of approximately 8 feet below the ground surface (bgs). Therefore, the majority of the soil excavation will occur above the groundwater table. As the property is currently vacant of permanent structures, no demolition activities are planned.

1.3 Description of Surrounding Property

PT utilized OER SPEED and NYC DCP ZoLa applications to obtain information regarding surrounding properties. Review of the applications indicated residential use to the north and east of the property. Van Brunt Street borders the property to the south, followed by mixed-use commercial and residential properties. Mixed-use properties border the site on the west.

2.0 PREVIOUS ENVIRONMENTAL DOCUMENTATION

2.1 Environmental Investigation Reports

The following environmental work plans and reports were developed for the Site:

Phase I Environmental Site Assessment, August 2014, prepared by PT Consultants, Inc.

Geophysical Investigation Report, February 20, 2015, prepared by Delta Geophysics, Inc.

Digital (PDF) copies of the above referenced environmental work plans and reports are included as **Appendix 4**.

2.2 Summary of Regulatory Correspondence

No pertinent regulatory correspondence related to the Site has been sent or received.

2.3 Phase I Summary

The Phase I report was prepared by PT Consultants, Inc. for STREKTE dated August 2014. This Phase I identified six (6) Recognized Environmental Conditions (RECs):

1. The historic utilization of the subject property places it within the E Designation Program with an E-110 tag for possibly containing a Hazmat/Underground Storage Tank.

2. Review of a test pit along the eastern property boundary was observed to contain multiple layers of fill material.

3. A storage container on-site contained various household building materials, compressed gas cylinders and one (1), 55 gallon drum with unknown contents. The drum was on its side and had the potential to spill. Staining was observed on the wooden floor of the storage container.

4. The subject property contained several areas where materials were staged, notably five (5), 5-gallon buckets of hydraulic fluid. Staining was observed beneath one (1) truck parked on the subject property.

5. One (1) ruptured 55-gallon steel drum existed on the northern portion of the property. The unknown substance appeared to have discharged onto the ground.

6. Several sites with potential sources of soil and groundwater contamination were identified in close proximity to the subject property. Identification of such was anticipated due to the urban setting of the subject property. Migration of contaminants from these sites to the subject property would most likely be via groundwater and/or vapor.

2.4 Findings of Previous Environmental Investigation (if applicable)

The Geophysical Survey Report was prepared by Delta Geophysics, Inc. for PT Consultants, Inc., dated February 20, 2015.

A geophysical survey was performed at the site using ground penetrating radar (GPR) in February 2015. During the GPR survey various equipment and other obstructions were scattered throughout the subject property. Approximately 50% of the Site was accessible with the GPR. Within the boundaries of the open areas no underground anomalies were detected.

3.0 PHASE II ENVIRONMENTAL SITE INVESTIGATION

3.1 Investigation Rationale

Geophysical Survey

As a geophysical survey has already been completed, a geophysical survey will not be performed across the entire site to investigate for the existence of potential underground storage tanks.

Soil, Soil Vapor and Groundwater

An investigation of soil, soil vapor and groundwater will be performed to investigate for the existence of potential environmental contamination on-site. Six (6) soil borings will be completed at the site to investigate historic fill conditions. A minimum of twelve (12) samples will be collected during the soil sampling event. Samples will be collected from each boring at the 0–2 feet below ground surface (bgs) interval and 2 feet above the water table.

Three (3) temporary monitoring wells will be placed in the northern, western and eastern corners of the subject property. These wells are presumed to be placed up-gradient of potential impact from off-site contamination. Groundwater samples will be collected to detect potential impact from off-site contamination.

Five (5) soil gas points will be installed in evenly spaced locations across the site to detect potential soil vapor impacts.

3.2 Investigation Procedures

Prior to invasive work, a one-call utility mark-out will be completed in accordance with local laws to locate buried electric, natural gas, telecommunication utilities, etc.

Geophysical Survey

As a geophysical survey has already been completed, a geophysical survey will not be performed across the entire site to investigate for the existence of potential underground storage tanks.

Soil Sampling

Site work will comply with safety guidelines outlined in the HASP (**Appendix 1**).

A qualified environmental driller will install six (6) investigative borings to the depth of two (2) feet below the development cuts or to groundwater (whichever is shallower) using a direct-push drilling method. The proposed Sample Location Map is attached as **Figure 3**. Soil will be collected continuously to the boring termination depth with a Geoprobe macrocore sampler in four-foot increments using disposable acetate sleeves. Each sample will be screened by a field engineer for organic vapors with a photo-ionization detector (PID) and evaluated for visual and olfactory indications of environmental impacts. Soil descriptions will be recorded in a field log.

At least two (2) soil samples will be collected from each borehole. One (1) sample will be

collected at the 0-2 foot interval and the deeper sample will be collected at two feet above the groundwater table (GW). If visual, olfactory, or PID evidence of contamination is observed in the boring an additional sample will be taken from that location. If the boring reaches groundwater at a shallower depth than the proposed excavation depth, the deeper soil sample will be taken from 2 feet above the groundwater interface. Samples will not be composite samples but will be discrete grab samples.

Table 1: Soil Sampling Depths

Soil Boring Number	Sampling Depth Below Grade (ft.)	Sample Type/Grab-Composite
Soil Boring SB-1/MW-1	0 – 2'	Soil/Grab
	2' above GW	Soil/Grab
		Groundwater
Soil Boring SB-2/MW-2	0 – 2'	Soil/Grab
	2' above GW	Soil/Grab
		Groundwater
Soil Boring SB-3/MW-3	0 – 2'	Soil/Grab
	2' above GW	Soil/Grab
		Groundwater
Soil Boring SB-4	0 – 2'	Soil/Grab
	2' above GW	Soil/Grab
Soil Boring SB-5	0 – 2'	Soil/Grab
	2' above GW	Soil/Grab
Soil Boring SB-6	0 – 2'	Soil/Grab
	2' above GW	Soil/Grab
Soil Gas SG-1	5'	Grab
Soil Gas SG-2	5'	Grab
Soil Gas SG-3	5'	Grab

Groundwater Sampling

Groundwater elevation is currently unknown due to limited prior work on-site. Three (3) temporary groundwater monitoring wells will be installed by inserting a nominal 1-inch diameter PVC well screen and riser into the open borehole (See **Figure 3** for well locations) using a peristaltic pump. The proper screen size annulus around the well screen will be filled with clean, appropriately sized silica sand. In silty conditions, smaller well screen slot size will be used. One (1) representative groundwater sample will be collected from each well with a peristaltic pump and dedicated Teflon tubing. Sampling will be conducted in accordance with NYSDEC Draft DER-10 Technical Guidance for Site Investigation and Remediation, dated December 2002, and Sampling Guidelines and Protocols, dated March 1991. Following sample collection, boreholes will be backfilled with soil cuttings with an upper bentonite plug and capped with concrete. Contaminated soil cuttings will be placed in sealed and labeled DOT approved 55-gallon drums pending off-site disposal at a permitted facility.

Soil Vapor Sampling

A total of five (5) soil gas (screening) samples will be collected from the proposed soil vapor locations on the Sample Location Map (**Figure 3**). All samples will be collected in accordance with the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH October 2006). Conditions in the field may require adjustment to the sampling locations. The vapor implants will be set at a depth of 5 feet as requested by the NYCOER. An email detailing the required sampling parameters of the site is included as **Appendix 5**. The soil vapor probe will be installed at least one foot above the smear zone.

Vapor samples will be collected in Summa canisters which have been certified clean by the laboratory and analyzed by using USEPA Method TO-15. Flow rate of both purging and sampling will not exceed 0.2 L/min. Sampling will occur for the duration of two (2) hours. A sample log sheet will be maintained summarizing sample identification, date and time of sample collection, sampling depth, identity of samplers, sampling methods and devices, soil vapor purge volumes, volume of the soil vapor extracted, vacuum of canisters before and after the samples are collected, apparent moisture content of the sampling zone, and chain of custody protocols.

As part of the vapor intrusion evaluation, a tracer gas will be used in accordance with NYSDOH protocols to serve as a quality assurance/quality control (QA/QC) device to verify the integrity of the soil vapor probe seal. Helium will be used as the tracer gas and a box will serve to keep it in contact with the probe during testing. A portable monitoring device will be used to analyze a sample of soil vapor for the tracer prior to sampling. If the tracer sample results show a significant presence of the tracer, the probe seals will be adjusted to prevent infiltration. As the conclusion of the sampling round, tracer monitoring will be performed a second time to confirm the integrity of the probe seals.

Investigation Derived Waste

Cuttings will be disposed at the site within the borehole that generated them to within 24 inches of the surface unless:

- Free product or grossly contaminated soils are present in the cuttings;
- The borehole has penetrated an aquitard, aquiclude or other confining layer; or extends significantly into bedrock;

- Backfilling the borehole with cuttings will create a significant path for vertical movement of contaminants. Soil additives (bentonite) may be added to the cuttings to reduce permeability;

- The soil cannot fit into the borehole.

Those soil cuttings needing to be managed on-site will be containerized in clearly labeled DOT approved 55-gallon drums for future off-site disposal. All boreholes which require drill cuttings disposal would ultimately be filled with bentonite chips and hydrated. Disposable sampling equipment including, spoons, gloves, bags, paper towels, etc. that came in contact with environmental media will be double bagged and disposed as municipal trash in a facility trash dumpster as non-hazardous trash.

3.3 Sample Analysis

Soil and groundwater samples will be submitted to a New York State Department of Health (NYSDOH) Environmental Laboratory Accreditation Program (ELAP)-certified laboratory for the following analyses:

- Volatile Organic Compounds by EPA Method 8260;
- Semi-volatile organic compounds by EPA Method 8270;
- Pesticides/PCBs by EPA Method 8081/8082; and
- Target Analyte List Metals by EPA Method 6010.

If either LNAPL and/or DNAPL are detected, appropriate samples will be collected for characterization and "finger print analysis" and required regulatory reporting (i.e. spills hotline) will be performed.

All groundwater samples will be analyzed for both filtered and unfiltered metals.

Soil vapor samples will be analyzed for VOCs by using USEPA Method TO-15.

3.4 Reporting

A Phase II ESI Report will be prepared following completion of the field activities and receipt of the laboratory data. The Report will be prepared using the OER template for the Phase II ESI Report and will provide detailed summaries of the investigative findings and soil and groundwater analytical results compared to the NYSDEC Part 375-6.8(a) Unrestricted Used Soil Cleanup Objectives, appropriate Part 375-6.8(b) Restricted Soil Cleanup Objectives and

NYSDEC Part 703 Groundwater Quality Standards (GQS) (class GA) or Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS). The Report will include an updated Site Plan and remedial recommendations, as warranted.

4.0 QUALITY ASSURANCE/QUALITY CONTROL

4.1 Quality Assurance/Quality Control Procedures

QA/QC procedures will be used to provide performance information with regard to accuracy, precision, sensitivity, representation, completeness, and comparability associated with the sampling and analysis for this investigation. Field QA/QC procedures will be used (1) to document that samples are representative of actual conditions at the Site and (2) identify possible cross-contamination from field activities or sample transit. Laboratory QA/QC procedures and analyses will be used to demonstrate whether analytical results have been biased either by interfering compounds in the sample matrix, or by laboratory techniques that may have introduced systematic or random errors to the analytical process. A summary of the field and laboratory QA/QC procedures is provided below.

4.2 Field QA/QC

Field QA/QC will include the following procedures:

- Calibration of field equipment, including PID, on a daily basis;
- Analysis of trip blank (VOCs only) and duplicate samples;
- Use of dedicated and/or disposable field sampling equipment;
- Proper sample handling and preservation;
- Proper sample chain of custody documentation; and
- Completion of report logs.

The above procedures will be executed as follows:

- Two (2) duplicate samples (one (1) soil and one (1) groundwater sample) will be collected to evaluate field sampling precision or reproducibility of measurements of the same parameter under the given set of conditions;

- Disposable sampling equipment, including acetate sleeves, latex gloves, and disposable bailers (or sample tubing), will be used to minimize cross-contamination between samples;
- For each of the parameters analyzed, a sufficient sample volume will be collected to adhere to the specific analytical protocol, and provide sufficient sample for reanalysis if necessary;
- Because plasticizers and other organic compounds inherent in plastic containers may contaminate samples requiring organic analysis, samples will be collected in glass containers, with the exception of the nitrate-preserved groundwater sample for metals analysis;
- Appropriate sample preservation techniques, including cold temperature storage at 4° C, will be utilized to ensure that the analytical parameters concentrations do not change between the time of sample collection and analysis; and
- Samples will be analyzed prior to the expiration of the respective holding time for each analytical parameter to ensure the integrity of the analytical results.

4.3 Sample Custody

Sample handling in the field will conform to appropriate sample custody procedures. Field custody procedures include proper sample identification, chain-of-custody forms, and packaging and shipping procedures. Sample labels will be attached to all sampling bottles before field activities begin to ensure proper sample identification. Each label will identify the site and sample location. Styrofoam or bubble wrap will be used to absorb shock and prevent breakage of sample containers. Ice or ice packs will be placed in between the plastic bags for sample preservation purposes.

After each sample is collected and appropriately identified, the following information will be entered into the chain-of-custody form:

- Site name and address;
- Sampler(s)' name(s) and signature(s);
- Names and signatures of persons involved in the chain of possession of samples;
- Sample number;

- Number of containers;
- Sample location;
- Date and time of collection;
- Type of sample, sample matrix and analyses requested;
- Preservation used (if any); and
- Any pertinent field data collected (pH, temperature, conductivity, Dissolved Oxygen [DO]).

The sampler will sign and date the "Relinquished" blank space prior to removing one (1) copy of the custody form and sealing the remaining copies of the form in a Ziploc plastic bag taped to the underside of the sample cooler lid. The sample cooler will be sealed with tape prior to delivery or shipment to the laboratory.

4.4 Report Logs

Field logs and borings logs will be completed during the course of this investigation. A field log will be completed on a daily basis which will describe all field activities including:

- Project number, name, manager, and address;
- The date and time;
- The weather conditions;
- On-site personnel and associated affiliations;
- Description of field activities; and
- Pertinent sample collection information including sample identification numbers, description of samples, location of sampling points, number of samples taken, method of sample collection and any factors that may affect its quality, time of sample collection, name of collector, and field screening results.

A boring log will be completed for each boring and will include the following information:

- Project number, name, manager, and location;
- The date and time;

- Drilling company and method used;
- Boring number;
- Total boring depth and water table depths; and
- Pertinent soil sample information including sample number, interval, depth, amount recovered, color, composition, percent moisture, visual and olfactory observations of contamination, and PID readings.

4.5 Laboratory QA/QC

AN ELAP-certified laboratory will be used for all sample analyses. The laboratory will follow the following QA/QC protocols. All samples will be delivered to the laboratory within 24 hours of sample collection. Samples will be received by laboratory personnel, who will inspect the sample cooler(s) to check the integrity of the custody seals. The cooler(s) will then be opened, the samples unpackaged, and the information on the chain-of-custody form examined. If the shipped samples match those described on the chain-of-custody form, the laboratory sample custodian will sign and date the form on the next "Received" blank and assume responsibility for the samples. If problems are noted with the sample shipment, the laboratory custodian will sign the form and record problems in the "Remarks" box. The custodian will then immediately notify the Project Manager so appropriate follow-up steps can be implemented on a timely basis.

A record of the information detailing the handling of a particular sample through each stage of analysis will be maintained by the laboratory. The record will include:

- Job reference, sample matrix, sample number, and date sampled;
- Date and time received by laboratory, holding conditions, and analytical parameters;
- Extraction date, time and extractor's initials (if applicable), analysis date, time, and analyst's initials; and
- QA batch number, date reviewed, and reviewer's initials.

5.0 HEALTH AND SAFETY PLAN (HASP)

5.1 Health and Safety Plan (HASP)

The investigation Health and Safety Plan (HASP) is included in **Appendix 1**. The Site Safety Coordinator will be Dorothy Libring. Investigative work performed under this Work Plan will be in full compliance with applicable health and safety laws and regulations, including Site and OSHA worker safety requirements and HAZWOPER requirements. Confined space entry, if any, will comply with OSHA requirements and industry standards and will address potential risks. The parties performing the investigation work will ensure that performance of work is in compliance with the HASP and applicable laws and regulations.

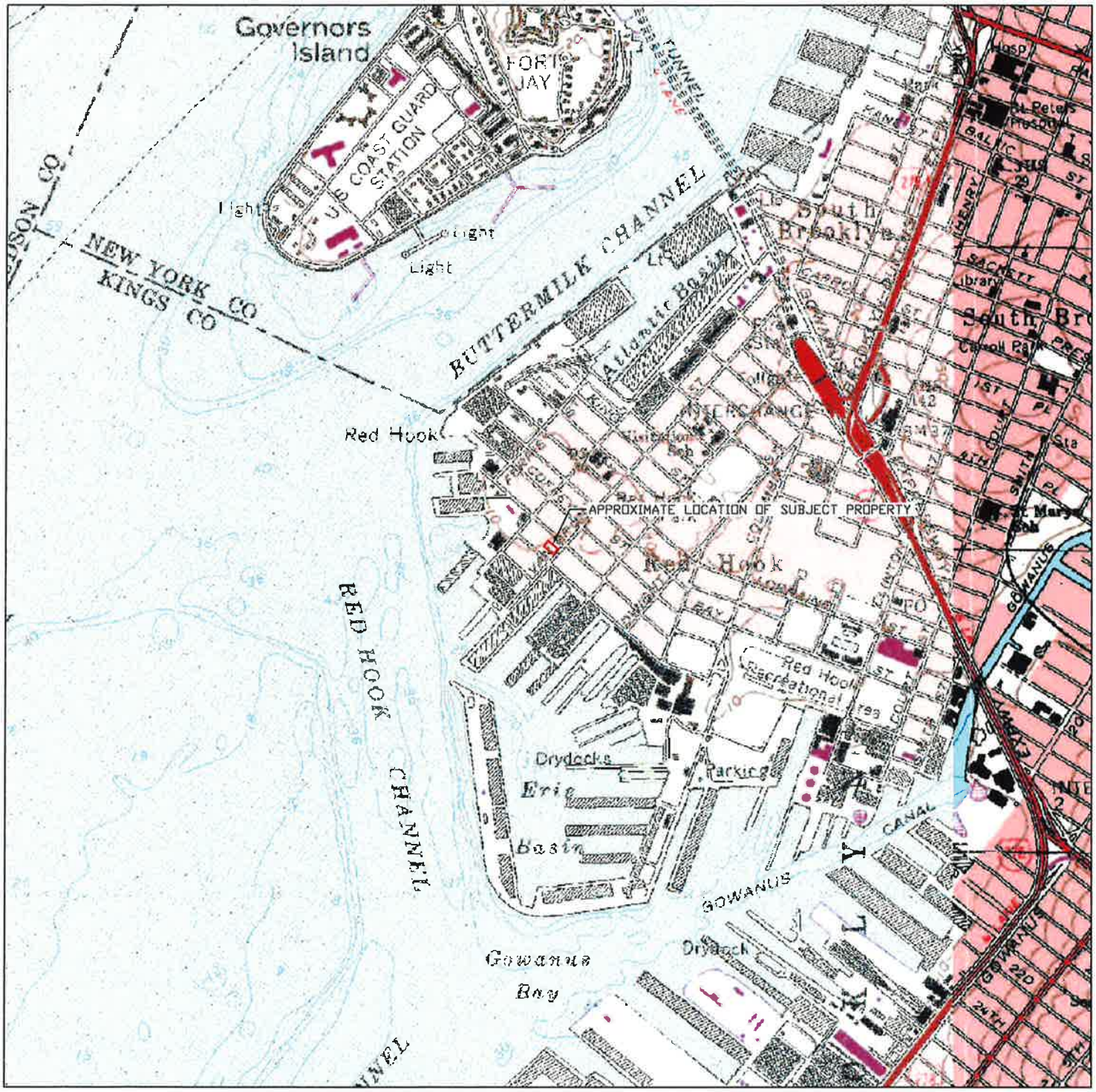
All field personnel involved in investigation activities will participate in training required under 29 CFR 1910.120, including 40-hour hazardous waste operator training and annual 8-hour refresher training. Site Safety Officer will be responsible for maintaining workers training records.

Personnel entering any exclusion zone will be trained in the provisions of the HASP and be required to sign a HASP acknowledgment. Site-specific training will be provided to field personnel. Additional safety training may be added depending on the tasks performed. Emergency telephone numbers will be posted at the site location before any work begins. A safety meeting will be conducted before each shift begins. Topics to be discussed include task hazards and protective measures (physical, chemical, environmental); emergency procedures; PPE levels and other relevant safety topics. Meetings will be documented in a log book or specific form. Potential on-site chemicals of concern include VOCs, SVOCs, Pesticides/PCBs, and Heavy Metals (specifically arsenic, lead, and mercury at a minimum). Information fact sheets for each contaminant group and/or MSDS' are included in the HASP.

An emergency contact sheet with names and phone numbers for all pertinent project personnel as well as regulatory hotline information is included in the HASP. That document will define the specific project contacts for use in case of emergency.

Figure 1

Site Location Map



430-434 VAN BRUNT STREET
BROOKLYN, NEW YORK 11231
BLOCK 603, LOTS 23 & 24

DER PROJECT NO: 15EHAZ292K
CEQR NO: 00DME013K

N

FIGURE 1
SITE LOCATION MAP

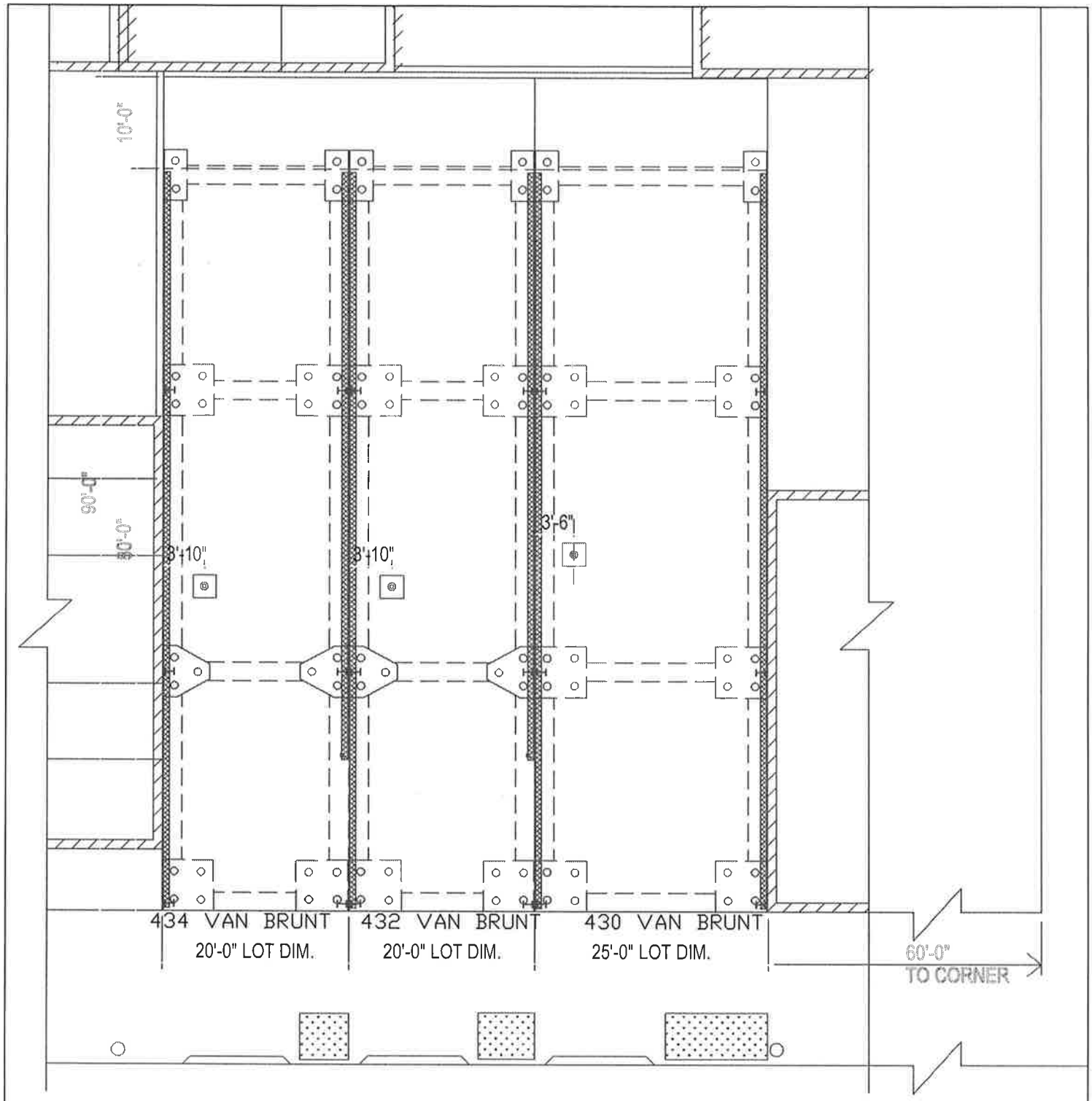
PREPARED FOR:
STREKTE
578 DEGRAW STREET
BROOKLYN, NEW YORK

PREPARED BY:
PT CONSULTANTS, INC.
629 CREEK ROAD
BELLMAWR, NEW JERSEY 08031

PT PROJECT # 12090-02	DRAFTSMAN: DSL
DATE: MARCH 16, 2015	SCALE: 1" = 2000'

Figure 2

Proposed Site Development Plan



430-434 VAN BRUNT STREET
BROOKLYN, NEW YORK 11231
BLOCK 603, LOTS 23 & 24

OER PROJECT NO: 15EHAZ292K
CEQR NO: 00DME013K

N

SITE PLAN

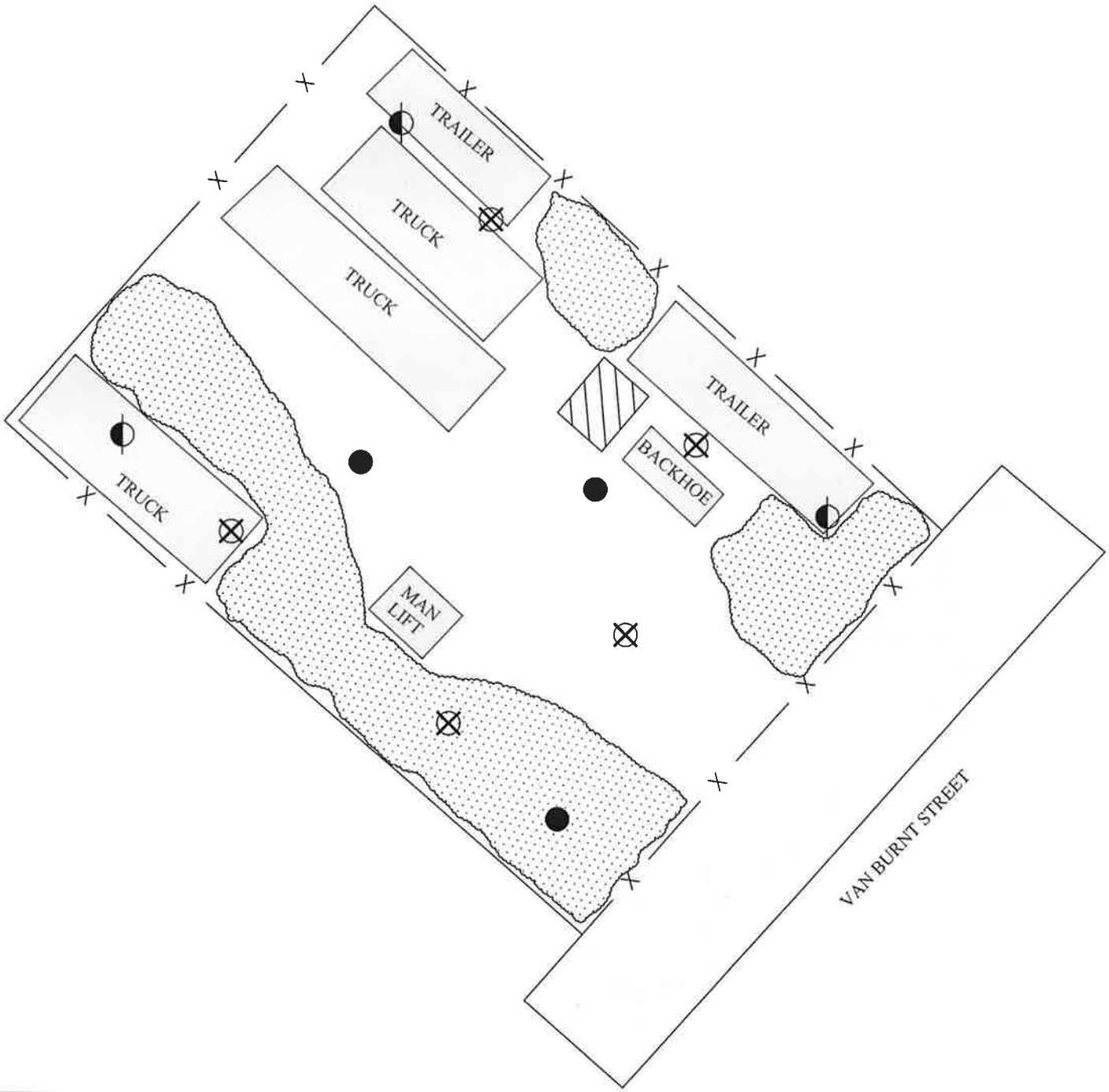
PREPARED FOR:
STREKTE
578 DEGRAW STREET
BROOKLYN, NEW YORK 11202

PREPARED BY:
PT CONSULTANTS, INC.
629 CREEK ROAD
BELLMAWR, NEW JERSEY 08031

PT PROJECT # 12090-02	DRAWN BY: DSL	CHECKED BY: BJS
DATE: MARCH 16, 2015	SIZE: LETTER	SCALE: AS SHOWN

Figure 3

Proposed Sample Location Map



LEGEND: CONSTRUCTION EQUIPMENT | SIDEWALK | DEBRIS | STEEL PLATE | SOIL SAMPLE | SOIL & GW SAMPLE | SOIL VAPOR SAMPLE

430-434 VAN BRUNT STREET
BROOKLYN, NEW YORK 11231
BLOCK 603, LOTS 23 & 24

OER PROJECT NO: 15EHAZ292K
CEQR NO: 00DME013K

N

PROPOSED SAMPLE LOCATIONS

PREPARED FOR:
STREKTE
578 DEGRAW STREET
BROOKLYN, NEW YORK 11202

PREPARED BY:
PT CONSULTANTS, INC.
629 CREEK ROAD
BELLMAWR, NEW JERSEY 08031

PT PROJECT # 12090-02	DRAWN BY: DSL	CHECKED BY: BJS
DATE: APRIL 1, 2015	SIZE: LETTER	SCALE: 1" = 15'

Appendix 1

Health and Safety Plan

CONTRACTOR HEALTH AND SAFETY PLAN

RED HOOK STORES REDEVELOPMENT / REZONING
430-434 VAN BRUNT STREET
BROOKLYN, NY 11231
BLOCK 603, LOTS 23 & 24
OER PROJECT NUMBER 15EHAZ292K

E-DESIGNATION E-110
CEQR NUMBER 00DME013K

PT PROJECT # 12090-02

PREPARED FOR:
STREKTE
P.O. BOX 21041
BROOKLYN, NEW YORK 11202
PAUL@STREKTE.COM

PREPARED BY:
PT CONSULTANTS, INC.
121 WEST 27TH STREET, SUITE 1004
NEW YORK, NEW YORK 10001
(917) 338-3086/ FAX (856) 931-1849

MARCH 2015

Table of Contents

Page

HEALTH AND SAFETY PLAN SUMMARY 1
1.0 INTRODUCTION 6
1.1 Purpose and Policy 6
1.2 Site Description 6
2.0 IDENTIFICATION OF KEY PERSONNEL 8
2.1 Health and Safety Personnel 8
2.1.1 Project Health and Safety Manager 8
2.1.2 Field Safety Officer 8
2.1.3 Work Team 9
2.2 Subcontractor Responsibilities 9
3.0 RISK ANALYSIS 11
3.1 Task Hazard Analysis 11
3.2 Chemical Hazards 11
3.3 Radiation Hazards 11
3.4 Biological Hazards 11
3.4.1 Animals 11
3.4.2 Insects 12
3.5 Physical Hazards 13
3.5.1 Explosion 13
3.5.2 Heat Stress 13
3.5.3 Cold -Related Illness 16
3.5.4 Noise 17
3.5.5 Hand and Power Tools 17
3.5.6 Slips, Trips, and Fall Hazards 17
3.5.7 Utilities (Electrocution and Fire Hazards) 18
3.5.8 Heavy Machinery 18
3.5.9 Lifting 18
3.5.10 Falling Hazards 18
3.5.11 Vehicle Hazards 18
3.6 Safe Work Practices 19
4.0 PERSONNEL TRAINING 20
4.1 Site Specific Training 20
4.2 Safety Briefings 20

Table of Contents (continued)

4.3 Cardiopulmonary Resuscitation and Basic First Aid Training 20
4.4 Confined Space Entry Training 21
4.5 OSHA Training 21
5.0 MEDICAL SURVEILLANCE 22
6.0 AIR MONITORING AND RESPONSE 23
6.1 General 23
6.2 Site Worker Operating Conditions 23
6.2.1 Level D 23
6.2.2 Level C 23
6.2.3 Level B (Retreat) 24
7.0 PERSONAL PROTECTIVE EQUIPMENT 25
7.1 Level D Protection 25
7.2 Level C Protection 26
8.0 SITE CONTROL 28
8.1 Site Communication 28
8.2 Work Zones 28
8.2.1 Hot Zone 28
8.2.2 Warm Zone 29
8.2.3 Cold Zone 29
8.3 Buddy System 29
8.4 Site Security 30
9.0 EMERGENCY RESPONSE 31
9.1 General 31
9.2 Responsibilities 31
9.3 Evacuation 31
9.4 Emergency Contacts/Notification System 32
9.5 Personal Injury 32
9.6 Personnel Exposure 33
9.7 Fire or Explosion 33
9.8 Spills and Leaks 33
9.9 Adverse Weather Conditions 34
9.10 Documentation 34

Table of Contents (continued)

Tables

Table 1 Task Risk Analysis

Table 2 Heat Stress Monitoring Frequency

Table 3 Heat Index

Table 4 Standing Orders

Figures

Figure 1 Route to Hospital

Attachments

Attachment A Safety Briefing Form

Attachment B Jobsite Safety Inspection Checklist

Attachment C Employee Exposure and Injury Incident Report

HEALTH AND SAFETY PLAN SUMMARY

Site specific Hazards and Training

The Field Safety Officer (FSO) will be responsible for providing Site - Specific training to all personnel that work at the site. This training will cover the following topics:

- Names of personnel responsible for Site Safety and Health;
- Hazards potentially present at the Site;
- Proper use of personal protective equipment (PPE);
- Work Practices by which the employee can minimize risk from hazards; and,
- Site Specific Hazards are described in Section 3.0.General Health and Safety Requirements

STREKTE personnel will be required to sign and date the Safety Briefing Form provided in **Attachment A** prior to working at the site.

Personal Protective Equipment

Level D protection will be worn for initial entry on-site and for all activities, except as noted in Section 6.2. Level D protection will consist of:

- Standard work clothes;
- Steel-toe safety boots;
- Safety glasses
- Nitrile outer gloves and polyvinyl chloride (PVC) or nitrile inner gloves (to be used during soil sampling activities); and
- Hard hat

Modified Level D protection may be required under conditions where potential contact of the skin or clothes with significant contamination occurs, (significant contamination is

not anticipated as part of site activities). Modified Level D is the same as Level D, but includes Tyvek coveralls and disposable polyethylene over boots.

Level C PPE may be required should elevated concentrations of volatile organic compounds be detected within the work area. Level C PPE is similar to modified Level D, but with the addition of air purifying respirators equipped with volatile organic cartridges.

The need for higher levels of PPE is not anticipated as part of site activities. Other PPE to be used at the site, as necessary, is described in Section 7.0.

Air Monitoring

Air monitoring and response procedures are discussed in Section 6.0. Elevated concentrations of volatile organic vapors may be encountered during the project. Air monitoring will be conducted with a photo ionization detector within the work zone. Fugitive dust generation that could affect Site workers, Site occupants, or the public is not expected. The criteria for stopping work will be (1) sustained visible emissions of dust and (2) at the FSO's discretion, based on field observations (e.g., suspect odors, etc.). The FSO will keep the Health and Safety Manager (HSM) aware of any extraordinary situations and conditions that may occur.

Emergency Contacts

In the event of any situation or unplanned occurrence requiring assistance, the appropriate contact(s) should be made from the list below. For emergency personnel, who will then contact the appropriate response teams. This emergency contacts list must be in an easily accessible location at the site.

Emergency Contacts	Phone Number
Fire Department	911
Police	911
New York City/Long Island One Call Center	(800) 272-4480
Poison Control Center	(800) 222-1222
Pollution Toxic Chemical/Oil Spills	(800) 424-8802

Medical Emergency Information	
Ambulance Service	911
Hospital Name	New York Methodist Hospital
Hospital Phone Number	(718) 780-3000
Hospital Address	506 Sixth Street Brooklyn, NY 11215
Route to Hospital	(See Page 4 and 5)

Project Team Contacts for CMHP	Contact Information
Project Manager	Brad Summerville (856) 625-9229 (C) (856) 251-9980 (O) 105 Harmony Road Mickleton, NJ 08056
Site Safety Coordinator	Dorothy Libring (609) 321-1317 (C) (856) 251-9980 (O) 106 Chestnut Street Cherry Hill, NJ 08002

Emergency Procedures

Emergency procedures are described in Section 9.0.

In case of personal injury at the Site, the victim should be transported to the nearest hospital or medical center if deemed necessary. If necessary, an ambulance should be called to transport the victim. The hospital route plan is displayed below:

Site Location: 430-434 Van Brunt Street

Hospital Location: 506 Sixth Street, Brooklyn, NY 11215

Hospital Information Line: (718) 780-3000

FIGURE 1 - HOSPITAL PLAN ROUTE

Route to Hospital

From the Site to New York Methodist Hospital:

1.	Head northeast on Van Brunt St toward Van Dyke St	0.6 mi
2.	Turn right onto Bowne St	0.1 mi
3.	Slight right onto Hamilton Ave	0.9 mi
4.	Turn left onto 14th St	121 ft
5.	Turn right to stay on 14th St	1.0 mi
6.	Turn left onto 8th St	0.4 mi
7.	Turn left onto 6th St. Destination will be on left.	0.1 mi

Total Distance: 3.1 miles

Total Estimated Time: 15 minutes

1.0 INTRODUCTION

1.1 Purpose and Policy

The purpose of this Health and Safety Plan (HASP) is to establish personnel protection standards and mandatory safety practices and procedures for the excavation and disposal of soils generated during construction activities associated with the Red Hook Stores Redevelopment/Rezoning project located at 430-434 Van Brunt Street, Brooklyn, New York 11231. This plan assigns responsibilities, establishes standard operating procedures, and provides for contingencies that may arise while operations are being conducted during the excavation or handling of materials at the subject site. This HASP is supplemental to the existing site wide HASP established by the contractor and exists on-site.

Any supplemental plans used by subcontractors shall conform to this plan, at a minimum. All personnel who engage in project activities must be familiar with this plan, comply with its requirements, and sign the Safety Briefing Form (provided in **Attachment A**). In addition to this plan, all work shall be performed in accordance with all applicable federal, state, and local regulations.

The content of the HASP may change or undergo revision based upon additional information made available to health and safety personnel, monitoring results, or changes in the scope of work. Any changes proposed must be reviewed and approved by the HSM, Environmental Consultants, Hauler, and FSO.

1.2 Site Description

The project Site is located in the Red Hook section of Brooklyn, New York and is identified as Block 603, Lots 23 & 24 on the New York City Tax Map. The site is 5,850 square feet (sq ft) and is bounded by mixed-use residential and commercial properties to

the north, east, and west. Site is bounded by Van Brunt Street to the south. The site is currently undeveloped and used for the storage of construction equipment and trailers.

In August 2014, PT completed a "Phase I Environmental Site Assessment" for STREKTE. The purpose of the Phase I ESA was to identify potential recognized environmental concerns (RECs) at the property. The Phase I ESA was completed in accordance with ASTM 1527-13. This assessment revealed no evidence of recognized environmental conditions in connection with the subject property except for the following:

- Historic Utilization/E-Designation (REC-1)
- Historic Fill (REC-2)
- Storage Container (REC-3)
- Material Staging Areas (REC-4)
- Ruptured Drum (REC-5)
- Potential Off-Site Sources of Contamination (REC-6)

Based on the identification of these potential RECs, STREKTE retained PT to prepare a Phase II Work Plan which details the correct procedures for investigating RECs. The Phase II Work Plan will include a Health and Safety Plan for the project which outlines procedures for protecting project workers and the community from exposure to contamination during construction, such as air monitoring protocols, action levels, and response procedures if action levels are exceeded.

2.0 IDENTIFICATION OF KEY PERSONNEL

2.1 Health and Safety Personnel

The following briefly describes the health and safety designations and general responsibilities which may be employed for the project. The titles have been established to accommodate the Site needs and requirements in order to insure the safe conduct of on-site work. **An emergency contact list is identified in the HASP Summary on Page 3.**

2.1.1 Project Health and Safety Manager

The HSM will be determined before the start of Site operations. The HSM's responsibilities include:

- Ensuring that this HASP is developed and approved prior to Site Activities.
- Monitoring project tasks for performance in a manner consistent with this HASP and resolving any discrepancies that arise;
- Updating this HASP as dictated by the availability of more recent and detailed plans, changing job conditions, Jobsite Safety Inspection Results, and for other relevant reasons that come up during the course of the project.
- Coordinating with the FSO to ensure that health and safety requirements are met;
- Reviewing results of Jobsite Safety Inspections; and
- Providing guidance and serving as a resource to the FSO.

2.1.2 Field Safety Officer

The FSO will be determined before the start of Site operations. The FSO is directly responsible for the field team and the safety of operations. The FSO's responsibilities include:

- Assisting HSM with updating the HASP;

- Conducting Jobsite Safety Inspections and correcting any short comings in a timely manner;
- Helping to select PPE and periodically inspecting the PPE;
- Ensuring that PPE is properly stored and maintained;
- Monitoring the work parties for signs of stress, such as heat stress, fatigue, and cold exposure;
- Monitoring Site hazards and conditions;
- Informing all Site personnel of emergency procedures, evacuation routes, and the telephone numbers of the ambulance, local hospital, poison control center, fire department, and police department;
- Resolving conflicting situations, in consultation with the HSM, that may arise concerning safety requirements and working conditions;
- Maintaining field records;
- Implementing the HASP; and
- Notifying emergency response personnel by telephone or radio in the event of an emergency and advising medical personnel of potential exposures and consequences.

2.1.3 Work Team

The Work Team will be determined before the start of Site operations. The Work Team responsibilities include:

- Safely completing the on-site tasks;
- Complying with this HASP; and
- Notifying the FSO or supervisor of suspected unsafe conditions.

2.2 Subcontractor Responsibilities

All subcontractors involved with the excavation must adhere to applicable Occupational Safety and Health Administration (OSHA) Regulations and shall develop and comply

with their own HASP which shall incorporate, at a minimum, the elements identified in this HASP.

3.0 RISK ANALYSIS

3.1 Task Hazard Analysis

The following hazards are associated with the removal of non-hazardous excavated material:

- Heavy excavation equipment (impact hazard to on foot workers);
- Open excavations (fall and cave in hazard);
- Uneven land surface (slip and trip hazard); and
- Potential presence of contaminated media (chemical exposure hazard).

Table 1 provides a summary of these potential hazards.

3.2 Chemical Hazards

Elevated levels of SVOCs, metals, and pesticides in project soils and metals and SVOCs in project groundwater were identified at the site.

3.3 Radiation Hazards

No radiation hazards are known or expected at the site.

3.4 Biological Hazards

3.4.1 Animals

During Site operations, animals such as dogs, pigeons, sea gulls, mice, and rats may be encountered. Workers will use discretion and avoid contact with animals. Bites and scratches from dogs can be painful and if the animal is rabid, the potential for contracting rabies exists. Contact with rat and mice droppings may lead to contracting Hantavirus.

Inhalation of dried pigeon droppings may led to psittacosis; crytococcosis, and histoplasmosis are also diseases associated with exposure to dried bird droppings, but these are less likely to occur in this occupational setting.

3.4.2 Insects

Insects, including bees, wasps, hornets, mosquitoes, and spiders, may be present at this Site. Some individuals may have a severe allergic reaction to an insect bite or sting that can result in a life threatening condition. In addition, mosquito bites may lead to St Louis encephalitis or West Nile Virus. Personnel that have been bitten or stung by an insect at the Site should notify the FSO of such immediately. The following is a list of preventive measures:

- Apply insect repellant prior to fieldwork and or as often as needed throughout the shift;
- Wear protective clothing (e.g., work boots, socks, and light colored pants).
- When walking in wooded areas, to the extent possible, avoid contact with bushes, tall grass, or brush; and
- Field personnel who may have an insect allergy (e.g. bee sting) should provide this information to the FSO prior to commencing work and must have allergy medication on-site.

The FSO will instruct the project personnel in the recognition and procedures for encountering potentially hazardous insects at the Site.

Lyme disease is caused by an infection from a deer tick that carries a spirochete. During the painless tick bite, the spirochete may be transmitted into the bloodstream, which could lead to the worker contracting Lyme disease. This flu like illness occurs out of season, commonly happening between May and October when ticks are more active. Symptoms can include a stiff neck, chills, fever, sore throat, headache, fatigue, and joint pain. If left untreated, Lyme disease causes serious nerve or heart problems as well as a

disabling type of arthritis. If personnel feel sick or have signs similar to those above, they should notify the FSO immediately.

It is recommended that personnel check themselves when in areas that could harbor deer ticks, wear light clothing, and visually check themselves and their buddy when coming from wooded or vegetation covered areas. If a tick is found biting an individual, the FSO should be contacted immediately. The tick can be removed by pulling gently at the head with tweezers. The affected area should then be disinfected with an antiseptic wipe.

3.5 Physical Hazards

3.5.1 Explosion

No explosion hazards are expected for the scope of work at this Site.

3.5.2 Heat Stress

The use of Level C protective equipment, or greater, may create heat stress. Monitoring of personnel wearing personal protective clothing should commence when the ambient temperature is 72 degrees F or above. **Table 2** presents the suggested frequency for such monitoring. Monitoring frequency should increase as ambient temperature increases or as slow recovery rates are observed. Refer to **Table 3** to assist in assessing when the risk for heat related illness is likely. To use this table, the ambient temperature and relative humidity must be obtained. Heat stress monitoring should be performed by the FSO, who shall be able to recognize symptoms related to heat stress.

To monitor the workers, be familiar with the following heat related disorders and their symptoms:

- Prickly Heat (Heat rash): Painful, itchy red rash. Occurs during sweating, on skin covered by clothing.
- Heat Cramps: Painful spasm of arm, leg, or abdominal muscles, during or after work.

- Heat Exhaustion: Headache, nausea, dizziness. Cool, clammy, moist skin, heavy sweating. Weak, fast pulse. Shallow respiration, normal temperature.
- Heat Fatigue: Weariness, irritability, loss of skill for fine or precision work. Decreased ability to concentrate. No loss of temperature control.
- Heat Stroke: Headache, nausea, weakness, hot dry skin, fever, rapid strong pulse, rapid deep respirations, loss of consciousness, convulsions, coma. This is a life threatening condition.

Do not permit a worker to wear a semi-permeable or impermeable garment when they are showing signs or symptoms of heat-related illness.
To monitor the worker, measure:

Heart Rate: Count the radial pulse during a 30 second period,
If the heart rate exceeds 100 beats per minute at the beginning of the rest period, shorten the next work cycle by one-third and keep the rest period the same.

If the heart rate still exceeds 100 beats per minute at the next rest period, shorten the following work cycle by one -third. A worker cannot return to work after a rest period until the heart rate is below 100 beats per minute.

Oral Temperature: Use a clinical thermometer (3 minutes under the tongue) or similar device to measure the oral temperature at the end of the work period (before drinking).

If the oral temperature exceeds 99.6 degrees F, shorten the next work cycle by one-third without changing the rest period. A worker cannot return to work after a rest period until the oral temperature is below 99.6 degrees F.
If the oral temperature still exceeds 99.6 degrees F at the beginning of the next rest period, shorten the following cycle by one-third.

Do not permit a worker to wear a semi-permeable or impermeable garment when oral temperature exceeds 100.6 degrees F.

Proper training and preventive measures will aid in averting loss of worker productivity and serious illness. Heat stress prevention is particularly important because once the person suffers from heat stroke or heat exhaustion, that person may be predisposed to additional heat related illness. To avoid heat stress the following steps should be taken:

- Adjust work schedules;
- Mandate work slowdowns as needed;
- Perform work during cooler hours of the day if possible, or at night if adequate lighting can be provided;
- Provide shelter (air conditioned, if possible) or shaded areas to protect personnel during rest periods;
- Maintain workers body fluids at normal levels. This is necessary to ensure that the cardiovascular system functions adequately. Daily fluid intake must be approximately equal to the amount of water lost in sweat, i.e. 8 fluid ounces of water must be ingested for approximately every 8 ounces of weight loss. The normal thirst mechanism is not sensitive enough to ensure that enough water will be consumed to replace lost sweat. When heavy sweating occurs, encourage the worker to drink more. The following strategies may be useful:
    - Maintain water temperature between 50 and 60 degrees F.
    - Provide small disposal cups that hold about four 4 ounces.
    - Have workers drink 16 ounces of fluid before beginning work.
    - Urge workers to drink a cup or two every 15 to 20 minutes, or at each monitoring break. A total of 1 to 1.6 gallons of fluid per day are recommended, but more may be necessary to maintain body weight.
    - Train workers to recognize the symptoms of heat related illness.

3.5.3 Cold -Related Illness

If the work on this project begins in the winter months, thermal injury due to cold exposure can become a problem for field personnel. Systemic cold exposure is referred to as hypothermia. Local cold exposure is generally called frostbite. To monitor the workers, be familiar with the following cold related illnesses and their symptoms.

- Hypothermia: Hypothermia is defined as a decrease in the patient core temperature to below 96.5 Degrees F. The body temperature is normally maintained by a combination of central (brain and spinal cord) and peripheral (skin and muscle) activity. Interference with any of these mechanisms can result in hypothermia, even in the absence of what normally is considered a "cold" ambient air temperature. Symptoms of hypothermia include shivering, apathy, listlessness, sleepiness, and unconsciousness.
- Frostbite: Frostbite is both a general and medical term given to areas of local cold injury. Unlike systemic hypothermia, frostbite rarely occurs unless the ambient air temperatures are less than freezing and usually less than 20 degrees F. Symptoms of frostbite include a sudden blanching or whitening of the skin; the skin has a waxy or white appearance and is firm to the touch; and tissues are cold, pale, and solid.

To prevent cold-related illness:

- Educate workers to recognize the symptoms of frostbite and hypothermia;
- Identify and limit known risk factors;
- Assure the availability of enclosed, heated environment on or adjacent to the Site;
- Assure the availability of warm drinks;
- Start oral temperature recording at the Site:
    - At the FSO's discretion, when suspicion is based on changes in a worker's performance or mental status.
    - At worker's request.

- As a screening measure, two (2) times per shift, under unusually hazardous conditions (i.e., wind chill less than 20 degrees F, or wind chill less than 30 degrees F with precipitation).
- As a screening measure if any one (1) worker on the Site develops hypothermia.

Any person developing moderate hypothermia (a core temperature of 92 degrees F) cannot return to work for 48 hours.

3.5.4 Noise

Work activities during the proposed excavation and sampling activities may be conducted at locations with high noise levels from the operation of equipment. Hearing protection will be used as necessary.

3.5.5 Hand and Power Tools

In order to complete the various tasks for the project, personnel may utilize hand and power tools. The use of hand and power tools can present a variety of hazards, including physical harm from being struck by flying objects, being cut or struck by the tool, fire, and electrocution. Ground Fault Circuit Interrupters (GFCIs) are required for all portable tools.

3.5.6 Slips, Trips, and Fall Hazards

Care should be exercised when walking at the Site, especially when carrying equipment. The presence of surface debris, uneven surfaces, pits, and soil piles contribute to tripping hazards and fall hazards. To the extent possible, all hazards should be identified and marked on the Site, with hazard communicated to all workers in the area.

3.5.7 Utilities (Electrocution and Fire Hazards)

The possibility of encountering underground utilities presents a fire, explosion, and electrocution hazard. All work will be preceded by review of available utility drawings and by notification of the subsurface work to the New York One Call Center. Potential adverse effects of electrical hazards include burns and electrocution, which could result in death.

3.5.8 Heavy Machinery

Care should be exercised when working near heavy machinery such as the excavators. Workers should always stay in view of the equipment operator; give equipment wide berth, clear communications signals, including hand signals, should be established prior to commencement of work and the equipment should have a back up alarm.

3.5.9 Lifting

Improper lifting and carrying of equipment and materials and shoveling soil may cause strains. Safe lifting and general material handling techniques should be exercised.

3.5.10 Falling Hazards

Soil material, crushed stone, tools, etc. may fall from power shovels, front end loaders, etc. Hard hats are to be worn at all times while in work zones.

3.5.11 Vehicle Hazards

Trucks and other work vehicles will be entering and leaving the Site nearly continuously during work hours. In addition, hydraulic excavators, dump trucks, and other construction vehicles will be working across the Site. Care should be taken when working on the Site and workers should be aware of surroundings at all times. When

working near vehicular traffic or work zones, attempt to keep eye contact with the machine operators.

3.6 Safe Work Practices

The standing orders (safe work practices that shall be followed while on-site) are listed in **Table 4.** Many are common sense in nature. The FSO has the responsibility for enforcing these practices which are to be posted prominently at the Site, or made available to personnel. Actions not in accordance with the standing order shall be corrected.

4.0 PERSONNEL TRAINING

4.1 Site Specific Training

Training will be provided that will specifically address the activities, procedures, monitoring and equipment for the Site operations. It will include Site and facility layout, hazards, and emergency services at the Site, and will detail all the provisions contained within the HASP. Specific issues that will be addressed include the hazards described in Section 3.0.

4.2 Safety Briefings

Project personnel will be given briefings by the FSO on a daily or as needed, basis, to further assist Site personnel in conducting their activities safely. Briefings will be provided when new activities are to be conducted. Changes in work practices must be implemented due to new information made available, or if the Site or environmental conditions change. Briefings will also be given to facilitate conformance with prescribed safe practices when performance deficiencies are identified during routine daily activities or as a result of the Jobsite Safety Inspections. A Jobsite Safety Inspection Check list is included in **Attachment B**.

4.3 Cardiopulmonary Resuscitation and Basic First Aid Training

The HSM will endeavor to have at least one (1) individual on-site, trained and certified to administer cardiopulmonary resuscitation (CPR) and basic first aid. This training will be consistent with the requirements of the National Safety Council. Copies of training certificates will be maintained by the HSM.

4.4 Confined Space Entry Training

It is not anticipated that confined space entries will be required as part of Site activities. Confined space work that may be performed shall be in accordance with a plan outlining controls and methods consistent with federal, state, and local regulation. Training consistent with OSHA 29 Code of Federal Regulations (CFR) 1910.146(g-j), "Permit required Confined Spaces", is required of all personnel before engaging in permit required confined space entry operations. Copies of training certifications are to be maintained by the HSM.

4.5 OSHA Training

It is not anticipated that the handling of hazardous materials will be required as part of Site activities. Completion of an initial 40 hour Hazardous Waste Operations and Emergency Response (HAZWOPER) training program (or its equivalent) as detailed in OSHA's 29 CFR 1910.120(e) is required for all employees who will perform work in areas where the potential for hazardous exposure exists. Annual 8 hour refresher training is also required to maintain competencies and to ensure a safe work environment. In addition to these training requirements, supervisory personnel must also receive 8 additional hours of specialized training. Training records will be maintained by the HSM.

5.0 MEDICAL SURVEILLANCE

It is not anticipated that the handling of hazardous materials will be required as part of the Site activities. All personnel who will be performing field work involving potential exposure to toxic and hazardous substances will be required to have passed an initial baseline medical examination, with annual follow-up medical exams thereafter, consistent with OSHA regulations. Medical Evaluations will be performed by, or under the direction of, a physician board certified in occupational medicine. Results of the evaluations will be maintained by the HSM.

Those personnel who may be required to perform work while wearing a respirator must receive medical clearance to do so, consistent with 29 CFR 1910.134(e), Respiratory Protection. Again, medical evaluations will be performed by, or under the direction of, a physician board certified in occupational medicine. If respiratory protection is required, the contractor must develop and implement a Written Respiratory Protection Program.

6.0 AIR MONITORING AND RESPONSE

6.1 General

Fugitive dust generation that could affect Site workers, Site occupants, or the public is not expected. Soil that is not moist will be wet down with water as appropriate to minimize visible dust emissions.

Dust or particulate concentrations should be monitored continuously at the Site. The criteria for stopping work and implementing engineering controls and additional monitoring requirements will be (1) sustained visible emissions of dust, and (2) at the FSO's discretion, and based on field observations (e.g., suspect odors, etc.).

6.2 Site Worker Operating Conditions

At the FSO's discretion, when conditions warrant an increase in protection, all personnel will stop working and immediately leave the Hot Zone (work zones defined in Section 8.2). They will then don the appropriate safety equipment necessary and return to their current workstation. All of this activity will be monitored by the FSO. The FSO will keep the HSM aware of any extraordinary situations and conditions that may occur. Verbal reports will be given to the HSM when there is a change in the PPE level.

6.2.1 Level D

Engineering controls will be used to keep working conditions at this level.

6.2.2 Level C

Level C conditions are possible during the project. If Level C conditions are encountered (e.g., elevated concentrations of volatile organic compounds in the work zone), at the FSO's discretion, work will stop, engineering controls implemented, and work methods

will be altered to resume work under Level D Conditions. If this is not feasible, the level of PPE will be upgraded to Level C. All field personnel in the Hot Zone will leave the Hot Zone, don air purifying respirators or equivalent respiratory protection devices, and return to their current work stations. AT this point the FSO will consult with the HSM to discuss appropriate actions.

6.2.3 Level B (Retreat)

Level B conditions are not anticipated. If Level B conditions are encountered (e.g., if sustained visible fugitive dust emissions from Site activities that disturb contaminated soil cloud the surrounding air) at the FSO's discretion all field personnel associated with the project will immediately retreat to a location up-wind of the source of contamination and don supplied air respiratory protection. At this point the FSO will consult with the HSM to discuss appropriate actions.

7.0 PERSONAL PROTECTIVE EQUIPMENT

All PPE used during the course of work at the Site must meet the following OSHA standards:

Type of Protection	Regulation	Source
Eye and Face	29 CFR 1910.133 & 29 CFR 1926.102	ANSI Z87.1-1968
Respiratory	29 CFR 1910.134 & 29 CFR 1926.103	ANSI Z88.1-1980
Head	29 CFR 1910.135 & 29 CFR 1926.100	ANSI Z89.1-1969
Foot	29 CFR 1910.136 & 29 CFR 1926.96	ANSI Z41.1-1967

PPE must protect workers from the specific hazards they are likely to encounter on-site. Selection of the appropriate PPE must take into consideration: (1) identification of the hazards or suspected hazards; (2) potential exposure routes; and (3) the performance of the PPE construction (materials and seams) in providing a barrier to these hazards. Based on the anticipated Site conditions and the proposed work activities to be performed at the Site, Level D protection should be used. The decision to modify standard PPE will be made by the HSM and FSO. The levels of protection are described below.

7.1 Level D Protection

Level D protection will be worn for initial entry on-site and initially for all activities. Level D protection will consist of:

- Standard work clothes;
- Steel-toe safety boors;
- Safety glasses (goggles must be worn when splash hazard is present)
- Nitrile outer gloves and PVC or nitrile inner gloves (to be used during soil handling activities); and
- Hard hat (must be worn during all Site activities)

Modified Level D protection may be required under conditions where potential contact of the skin or clothes with significant contamination occurs (significant contamination is not anticipated as part of Site activities). Modified Level D is the same as Level D, but includes Tyvek coveralls and disposable polyethylene over boots. The need for Modified Level D protection is not anticipated.

7.2 Level C Protection

The need for Level C Protection is not anticipated during the project. If Level C conditions are encountered, the FSO must consult with the HSM to discuss appropriate actions (see Section 6.2.2). If the level of PPE is to be upgraded to Level C, Level C Protection will consist of the following equipment:

- Full-Face or half-faced air purifying respirator (APR) or powered air purifier (PAPR), depending on the presence and abundance of airborne toxic constituents of concern;
- Combination high efficiency particulate air (HEPA) filter/organic vapor cartridges (cartridges will be disposed at the end of each day's use);
- Tyvek coveralls must be worn if particulate hazard is present;
- Polyethylene coated Tyvek coveralls if liquid contamination is present;
- Steel-toe safety boots;
- Nitrile outer gloves and PVC or nitrile inner gloves (to be used during soil handling activities); and
- Hard hat (must be worn during all site activities).

Both the respirator and cartridges specified for use in Level C protection must be fit tested prior to use in accordance with OSHA regulations 29 CFR 1910.1025 and 29 CFR 1910.134.

Based on the performance criteria of air purifying respirators, they cannot be worn under the following conditions:

- Oxygen deficiency;

- Immediate dangerous to life and health (IDLH) concentrations;
- High relative humidity; and
- If contaminant levels exceed designated use concentrations.

8.0 SITE CONTROL

8.1 Site Communication

Verbal communication will be the primary method of communication used at the Site during the Site activities. Cell phones shall be used to the extent practical by field teams for communication between downrange operations and the command post base station. The FSO's cell phone number shall be made available to all Site workers. In instances where verbal communication cannot be used, hand signals will be used. It may also be necessary to use these signals when working around noisy heavy equipment. Hand signals and their meanings include:

Hand Signal	Meaning
Hand gripping throat	Out of air; cannot breathe
Grip partners wrist or place both hands around waist	Leave immediately without debate
Hands on top of head	Need assistance
Thumbs up	OK; I'm alright; I understand
Thumbs down	No; Negative
Simulated "stick" break with fists	Take a break; stop work

8.2 Work Zones

The need to formerly establish work zones during Site activities shall be determined by the HSM.

8.2.1 Hot Zone

Hot Zones will be established 25 feet from each planned excavation extent. All personnel within the hot zone must don the appropriate levels of protection as set forth by the FSO. It is not anticipated that Level C or higher will be required for this Site. All

personnel within the Hot Zones will be required to use the specified level of protection. No food, drink, or smoking will be allowed in the Hot or Warm Zones (described below).

8.2.2 Warm Zone

A Warm Zone will be established and utilized during the field activities. This zone will be established between the Hot Zone and the Cold Zone. Personnel and equipment in the Hot Zone must pass through this zone before entering the Cold Zone. Appropriate decontamination procedures will be conducted in the Warm Zone. This zone will be located upwind of the Hot Zone.

8.2.3 Cold Zone

The Cold Zone will include the remaining areas of the job Site. Break areas and support facilities (include equipment storage and maintenance areas) will be located in this zone. No equipment or personnel will be permitted to enter the Cold Zone from the Hot Zone without passing through the Warm Zone. Eating, smoking, and drinking will be allowed only in this area.

8.3 Buddy System

When working in teams of two (2) or more, workers will use the "buddy system" for all work activities, particularly for work performed in the Hot Zones, to ensure rapid assistance can be provided in the event of an emergency. This requires work groups to be organized such that workers can remain close together and maintain visual contact with each other. Workers using the "buddy system" have the following responsibilities:

- Provide his or her partner with assistance when needed;
- Observe his or her partner for signs of chemical or heat exposure;
- Periodically check the integrity of his or her partner's PPE; and
- Notify the FSO or other Site personnel if emergency service is needed.

8.4 Site Security

General Site security and control measures (e.g., Site access, gates, etc.) will be implemented to:

- Prevent unauthorized entry to the Site; and
- Deter vandalism and theft.

9.0 EMERGENCY RESPONSE

9.1 General

Because of the hazards that may be present at the Site, and the conditions under which operations are conducted, it is possible that an emergency situation might develop. Emergency situations can be characterized as injury or chemical exposure to personnel; fire or explosion; environmental release, or serious weather conditions.

9.2 Responsibilities

The FSO, or other appropriate person as designated by the HSM, will serve as the Site Emergency Coordinator and shall implement emergency procedures whenever conditions warrant such action. The Site Emergency Coordinator will be responsible for assuring the evacuation, emergency treatment, emergency transport of Site personnel, and notification of emergency units and the appropriate management staff. Emergency response instructions will be provided by the FSO as part of every employee's training prior to the start of work.

All workers who are contracted to work on the Site must become familiar with emergency response procedures for the Site.

9.3 Evacuation

In the event of an emergency situation, an air horn or vehicle horn will be sounded three (3) times indicating the initiation of evacuation procedures. All personnel will evacuate and assemble outside the nearest Site access gate. No one, except the emergency responders, will be allowed to proceed into the area once the emergency signal has been given. The Site Emergency Coordinator will ensure that access for emergency equipment is provided and that all sources of combustion (e.g., operation of machinery, etc.) have been shut down once the alarm has sounded. Wind direction will be taken into

consideration for emergency plans. Evacuation plans will be discussed at the initial Site Specific training and as needed at the regular safety briefings.

In all situations, when an on-site emergency results in an evacuation, personnel shall not re-enter until:

- The conditions resulting from the emergency have been corrected;
- The hazards have been re-evaluated;
- This HASP has been reviewed; and
- Site personnel have been briefed on any changes to the HASP.

9.4 Emergency Contacts/Notification System

The fire department and other emergency response groups will be notified by telephone of the emergency as soon as possible. An emergency telephone numbers list is found at the beginning of this HASP. The list will also be posted prominently at the Site, or made readily available to all personnel at all times.

9.5 Personal Injury

In case of personal injury at the Site, the following procedures should be followed:

1. Another team member should signal the FSO that an injury has occurred.
2. A field team member trained in first aid should administer treatment to the injured worker.
3. If necessary, the victim should then be transported to the nearest hospital or medical center. If necessary, an ambulance should be called to transport the victim.
4. For less severe cases, the individual can be treated with contents of the first aid kit.

The FSO is responsible for verifying that an Employee Exposure and Injury Incident Report (Provided as **Attachment C**) is completed. This form is to be submitted to the HSM. Follow-up action should be taken to correct the situation that caused the accident.

Any incident (e.g., near miss, property damage, first aid, medical treatment, etc.) must be reported and evaluated. A first aid kit will be kept on-site during the field activities.

9.6 Personnel Exposure

General emergency first aid procedures to be followed are:

- Skin Contact: Use copious amounts of soap and water. Wash/rinse affected areas thoroughly, and then provide appropriate medical attention. Rinse eyes with water for at least 15 minutes.
- Inhalation: Move to fresh air and/or, if necessary, decontaminate and transport to hospital.
- Ingestion: Decontaminate and transport to emergency medical facility.
- Puncture/Laceration: Decontaminate, if possible, and transport to emergency medical facility.

9.7 Fire or Explosion

Appropriate fire extinguishers will be made available at the Site for trained personnel to use on insipient stage fires without endangering the safety and health of those nearby. If the use of fire extinguishers will not extinguish the fire, immediately notify the fire department, sound the evacuation alarm, and then evacuate the area, assembling outside a Site access gate to be accounted for and to receive further instructions.

9.8 Spills and Leaks

Control or stop the spread of minor chemical spills utilizing the appropriate materials (i.e., absorbents, etc.), if possible. If the release is significant, or highly hazardous, immediately notify the appropriate response groups, sound the evacuation signal, evacuate the area, and assemble outside a Site access gate to be accounted for and to receive further instructions.

9.9 Adverse Weather Conditions

In the event of heavy precipitation, conditions will be assessed on-site by the FSO to determine if the work can proceed safely. If it is determined that the weather poses a significant hazard, site operations will be stopped and rescheduled. Some of the items to be considered prior to determining if work should continue include:

- Potential for heat stress and heat related injuries;
- Potential for cold stress related injuries;
- Treacherous weather related working conditions; and
- Limited visibility.

9.10 Documentation

For emergencies involving personnel injury and/or exposure, the FSO will complete and submit the Employee Exposure and Injury Incident Report within 48 hours of the incident. The form is attached in **Attachment C**.

TABLES

TABLE 1
TASK RISK ANALYSIS

TASK RISK ANALYSIS

A. PHYSICAL HAZARD OF CONCERN

Hazard	Description	Control Measures	First Aid
Skin Contact	Contact with potentially contaminated soils, dust in eyes.	Wear proper PPE; follow safe practices	Eyes: Irrigate immediately Skin: Soap wash promptly
Lacerations, abrasions, punctures	Using tools in tight spaces, etc.	Wear proper PPE; follow safe practices	See NSC "First Aid and CPR Standard" manual
Lifting	Improper lifting/carrying of equipment and materials causing strains	Follow safe lifting techniques	Follow the RICE procedures (p.99 in National Safety Council [NSC] manual.
Slips, trips, and falls	Any number of injuries could occur from slips, trips, and falls in carrying out tasks	Good housekeeping a site, constant awareness and focus on the task	See NSC "First Aid and CPR Standard" manual
Noise	Excavation equipment	Wear hearing protection	See NSC "First Aid and CPR Standard" manual
Falling Objects	Soil material, tools, etc. dropping from front-end loaders, etc.	Hard hats to be worn at all times while in work zones	See NSC "First Aid and CPR Standard" manual
Underground/overhead utilities	Excavators and demolition equipment making contact with utilities	"One Call" before dig; follow safe practices	See NSC "First Aid and CPR Standard" manual

B. TASK-BY-TASK RISK ANALYSIS

Task	Hazard	Description	Control Measures	First Aid
Excavation and Sampling Activities	Heavy Machinery	Demolition and excavation with hydraulic equipment	Wear proper PPE; follow safe practices	See NSC "First Aid and CPR Standard" manual
	Building Demolition	Demolition with hydraulic equipment, falling building material	Wear proper PPE; follow safe practices	See NSC "First Aid and CPR Standard" manual
	Working and Sampling within the Excavations	Surveying size of excavation, screening and sampling end-point (is sampling conducted)	Wear proper PPE; follow safe practices	See NSC "First Aid and CPR Standard" manual

TABLE 2
HEAT STRESS MONITORING FREQUENCY

HEAT STRESS MONITORING FREQUENCY

Heat Index Temperature	Normal Work Clothing	Impermeable Clothing
90° F or above (32.2°C or above)	After each 45 minutes of work	After each 15 minutes of work
87.5 °F (30.8°-32.2°C)	After each 60 minutes of work	After each 30 minutes of work
82.5°-87.5°F (28.1°-30.1°C)	After each 90 minutes of work	After each 60 minutes of work
77.5°-82.5°F (25.3°-28.1°C)	After each 120 minutes of work	After each 90 minutes of work
72.5°-77.5°F (22.5°-25.3°C)	After each 150 minutes of work	After each 120 minutes of work

TABLE 3
HEAT INDEX

HEAT INDEX

	ENVIRONMENTAL TEMPERATURE (Fahrenheit)										
	70	75	80	85	90	95	100	105	110	115	120
RELATIVE HUMIDITY	APPARENT TEMPERATURE*										
0%	64	69	73	78	83	87	91	95	99	103	107
10%	65	70	75	80	85	90	95	100	105	111	116
20%	66	72	77	82	87	93	99	105	112	120	130
30%	67	73	78	84	90	96	104	113	123	135	148
40%	68	74	79	86	93	101	110	123	137	151	
50%	69	75	81	88	96	107	120	135	150		
60%	70	76	82	90	100	114	132	149			
70%	70	77	85	93	106	124	144				
80%	71	78	86	97	113	136					
90%	71	79	88	102	122						
100%	72	80	91	108							

*Combined Index of Heat and Humidity...what it "feels like" to the body
Source: National Oceanic and Atmospheric Administration

How to use Heat Index:
1. Across top locate Environmental Temperature
2. Down left side locate Relative Humidity
3. Follow across and down to find Apparent Temperature
4. Determine Heat Stress Risk on chart at right

Note: Exposure to full sunshine can increase Heat Index values by up to 15 degrees F.

Apparent Temperature	Heat Stress Risk with Physical Activity and/or Prolonged Exposure
90-105	Heat Cramps or Heat Exhaustion Possible
105-130	Heat Cramps or Heat Exhaustion Likely. Heat Stroke Possible
>130	Heatstroke Highly Likely

TABLE 4
STANDING ORDERS

STANDING ORDERS

GENERAL

- No smoking, eating, or drinking in this work zone.
- Upon leaving the work zone, personnel will thoroughly wash their hands and face. Minimize contact with contaminated materials, if encountered, through proper planning of work areas and decontamination areas, and by following proper procedures.
- Do not place equipment on the ground. Do not sit on contaminated materials, if encountered.
- No open flames in the work zone.
- Only properly trained and equipped personnel are permitted to work in potentially contaminated areas.
- Always use the appropriate level of personal protective equipment (PPE). Maintain close contact with your buddy in the work zone.
- Contaminated material, if encountered, will be contained in the Hot Zone. Report any unusual conditions.
- Work areas will be kept clear and uncluttered. Debris and other slip, trip, and fall hazards will be removed as frequently as possible.
- The number of personnel and equipment in the work zone will be kept to an essential minimum.
- Be alert to the symptoms of fatigue and heat/cold stress, and their effects on the normal caution and judgment of personnel.
- Conflicting situations which may arise concerning safety requirements and working conditions must be addressed and resolved quickly by the Field Safety Officer (FSO).

TOOLS AND HEAVY EQUIPMENT

- Do not, under any circumstances, enter or ride in or on any backhoe bucket, materials hoist, or any other device not specifically designed to carrying passengers.
- Loose-fitting clothing or loose long hair is prohibited around moving machinery. Ensure that heavy equipment operators and all other personnel in the work zone are using the same hand signals to communicate.
- Drilling/excavating within 20 feet in any direction of overhead power lines is prohibited. The locations of all underground utilities must be identified and marked out prior to initiating any subsurface activities.
- Check to insure that the equipment operator has lowered all blades and buckets to the ground before shutting off the vehicle.
- If the equipment has an emergency stop device, have the operator show all personnel its location and how to activate it.
- Help the operator ensure adequate clearances when the equipment must negotiate in tight quarters; serve as a signalman to direct backing as necessary.
- Ensure that all heavy equipment that is used in the Hot Zone is kept in that zone until the job is done, and that such equipment is completely decontaminated before moving it into the clean area of the work zone.

- Samplers must not reach into or get near rotating equipment such as a drill rig. If personnel must work near any tools that could rotate, the equipment operator must completely shut down the rig prior to initiating such work. It may be necessary to use a remote sampling device.

FIGURES

FIGURE 1 - HOSPITAL PLAN ROUTE

Route to Hospital

From the Site to New York Methodist Hospital:

1.	Head northeast on Van Brunt St toward Van Dyke St	0.6 mi
2.	Turn right onto Bowne St	0.1 mi
3.	Slight right onto Hamilton Ave	0.9 mi
4.	Turn left onto 14th St	121 ft
5.	Turn right to stay on 14th St	1.0 mi
6.	Turn left onto 8th St	0.4 mi
7.	Turn left onto 6th St. Destination will be on left.	0.1 mi

Total Distance: 3.1 miles

Total Estimated Time: 15 minutes

ATTACHMENTS

ATTACHMENT A

SAFETY BRIEFING FORM

SAFETY BRIEFING

Date: _____

Time: _____ FSL: _____ Location: _____

Work Task: _____

SAFETY TOPICS ***(provide some detail of discussion points)***

Chemical Exposure Hazards and Control: _____

Physical Hazards and Control: _____

Air Monitoring: _____

PPE: _____

Communications: _____

Safe Work Practices: _____

Emergency Response: 911 _____

Hospital/Medical Center Location: _____

_____

Phone Nos.: _____

Other: _____

FOR FOLLOW- UP (issues, responsibility, due date)

_____

_____

_____

_____

ATTENDEES

PRINT NAME	COMPANY	SIGNATURE

Briefing Conducted By: _____

ATTACHMENT B

JOBSITE SAFETY INSPECTION CHECKLIST

JOB SAFETY INSPECTION CHECKLIST

Client: _____ Inspection Date: _____
Site: _____ Inspector: _____
Project Number: _____

Check one of the following: A: Acceptable NA: Not Applicable D: Deficiency

	A	NA	D	REMARKS
1. HASP available on-site for inspection?				
2. Health and Safety Compliance agreement (in HASP) appropriately signed on –site personnel?				
3. Hospital route map with directions posted on-site?				
4. Emergency Notification List posted on-site?				
5. First Aid kit available and properly stocked?				
6. Personnel trained in CPR/First Aid on-site?				
7. MSDSs readily available, and all workers knowledgeable about the specific chemicals and compounds to which they may be exposed?				
8. Appropriate PPE being worn by on-site personnel?				
9. Project site safe practices ("Standing Orders") posted?				
10. Health & Safety Incident Report forms available?				
11. Mark outs of underground utilities done properly to initiating any subsurface activities?				
12. Are tools in good condition and properly used?				
13. Excavation performed in areas free from underground objects including utilities?				
14. Adequate size/ type fire extinguisher supplied?				
15. Equipment at least 20 feet from overhead power lines?				
16. Evidence that all operators are responsible for the safety of his/her equipment?				
17. Trench sides shored, layer back, or boxed?				
18. Underground utilities located and authorities contacted before digging?				
19. Ladders in trench (25- foot spacing, extend 3-feet above landing surface)?				

20. Excavated material places more than 2 feet away from excavating edge?				
21. Public protected from exposure to open excavation?				
22. People entering the excavation regarding it as a permit required confined space and following appropriate procedures?				
23. Confined space entry permit is completed and posted?				
24. All persons knowledgeable about the conditions and characteristics of the confined space?				
25. All persons engaged in confined space operations have been trained in safe entry and rescue (non-entry)?				
26. Full body harnesses, lifelines, and hoisting apparatus available for rescue needs?				
27. Attendant and/ or supervisor certifies in basic first aid and CPR?				
28. Evidence of coordination with off-site rescue services to perform entry rescue, if needed?				
29. Are extension cords rated for work being used and they properly maintained?				
30. Are GFCIs provided and being used?				

JOB SAFETY INSPECTION CHECKLIST

Unsafe acts observed?

_____
_____
_____
_____

Additional remarks:

_____
_____
_____
_____

ATTACHMENT C

EMPLOYEE EXPOSURE AND INJURY INCIDENT REPORT

EMPLOYEE EXPOSURE AND INJURY INCIDENT REPORT

(Submit a Separate Report for Each Employee and/or Incident)

Date: _____

Employee Name: _____ Employee No: _____

Sex: M _____ F _____ Age: _____

Region: _____

Location: _____

Project: _____ Project No: _____

Incident: _____

Type: Possible Exposure _____ Exposure _____ Physical Injury _____

Location: _____

Date of Incident: _____ Time of Incident: _____

Date of Report Incident: _____

Person(s) to Whom Incident was Reported: _____

Weather Conditions during Incident: Temperature _____ Humidity _____

Wind Speed and Direction: _____

Cloud Cover: _____ Clear: _____

Precipitation: _____

Materials Potentially Encountered: _____

Chemical (give name of description - liquid, solid, gas, vapor, fume, mist):

_____

_____

Radiological:

_____

Other:

_____

Nature of the Exposure/Injury (State the nature of the exposure/injury in detail and list the parts of the body affected. Attach extra sheets if necessary):

_____

_____

_____

_____

Did you receive medical care? Yes _____ No _____

If so, when? _____

Where? On-site _____ Off-site _____

By Whom: Name of Paramedic: _____

Name of Physician: _____

Other: _____

If Off-site, name facility (hospital, clinic, etc.):

_____

_____

Length of stay at the facility?_____

Was the Site Safety Officer contacted? Yes _____ No _____ When? _____

Was the Corporate Health and Safety Officer contacted? Yes _____ No _____

If so, who was the contact? _____

Did the exposure/injury result in permanent disability? Yes _____ No _____

If so, explain:_____

_____

Has the employee returned to work? Yes _____ No _____

List the names of other persons affected during this incident:

_____
_____
_____
_____
_____

List the names of persons who witnessed the exposure/injury incident:

_____
_____
_____
_____
_____
_____

Possible cause of the exposure/injury incident:

_____
_____
_____
_____
_____
_____

What was the name and title of the field team leader or immediate supervisor at the site of the incident?

_____

Was the operation being conducted under an established Health and Safety Plan?

Yes _____ No _____ If yes, attach a copy. If no, explain

_____

Describe protective equipment and clothing used by the employee:

_____
_____
_____

Did any limitations in safety equipment or protective clothing contribute to or affect exposure? If so, explain:

What was the employee doing when the exposure/injury occurred? (Describe briefly):

Where exactly on-site or off-site did the exposure/injury occur?

How did the exposure/injury occur? (Describe fully what factors led up to and/or contributed to the incident):

Name of person(s) initiating report, job title, phone number:

_____

_____

_____

_____

_____

_____

_____

_____

_____ _____

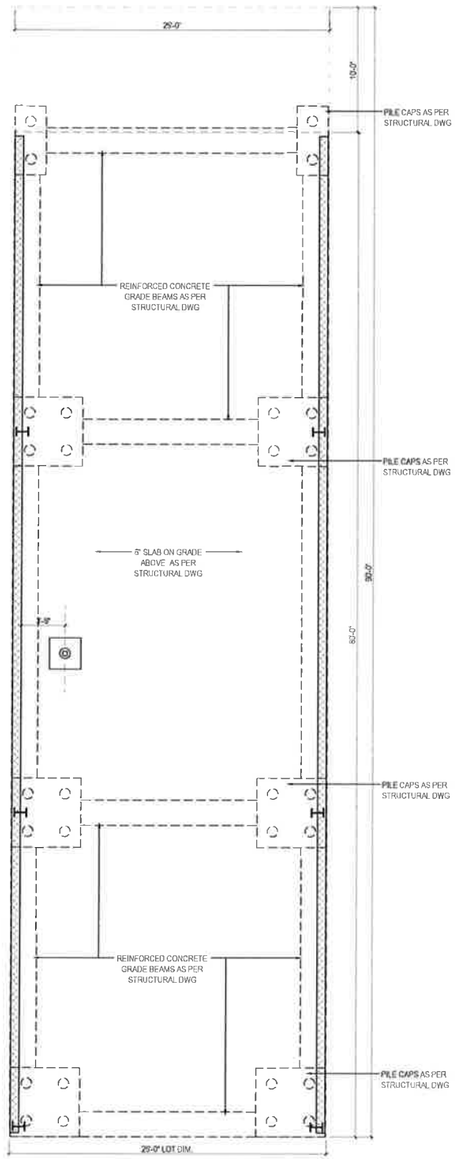
Employee Signature Date

_____ _____

Field Safety Officer Signature Date

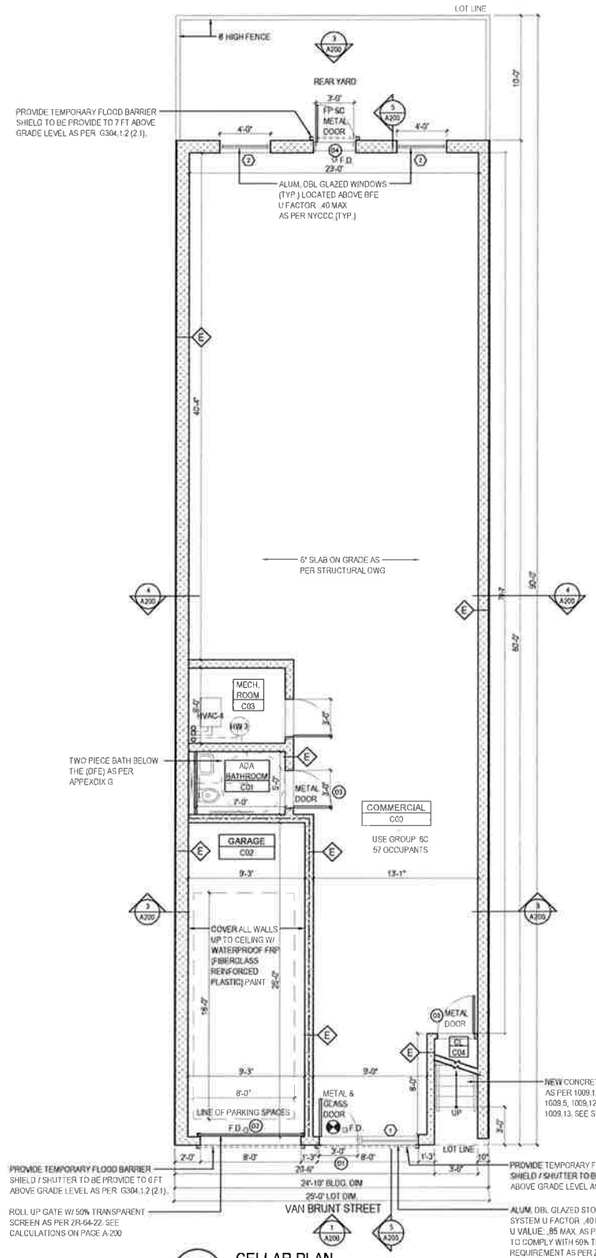
Appendix 2

Building Layouts



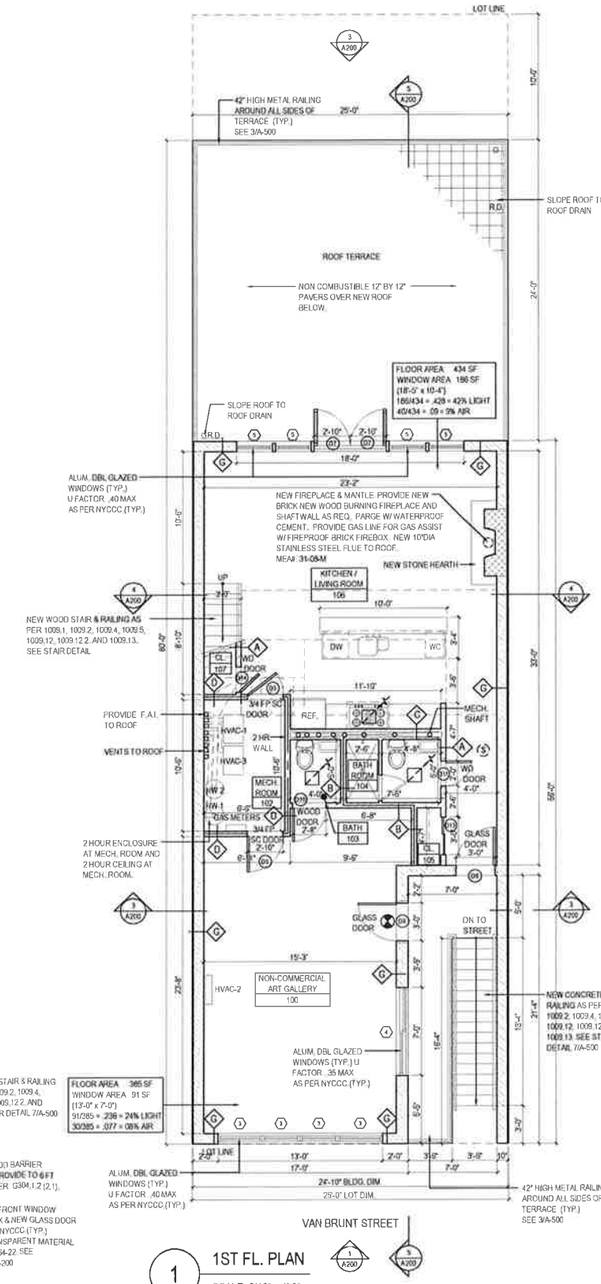
F FOUNDATION PLAN

SCALE: 3/16" = 1'-0"



C CELLAR PLAN

SCALE: 3/16" = 1'-0"



1 1ST FL. PLAN

SCALE: 3/16" = 1'-0"

EXIT ACCESS TRAVEL DISTANCE 2014 CODE AS PER BC 1015.1		MAXIMUM TRAVEL DISTANCE	ACTUAL TRAVEL DISTANCE	
GROUP 6C (COMMERCIAL USE)				
GROUND FL	200-0" (SPRINKLERED)	75 = (48 FT + 30 FT)	78 FT < 200 FT	COMPLIES
GROUP 3 (COMMUNITY FACILITY)				
1ST FL	200-0" (SPRINKLERED)	21 FT	21 FT < 200 FT	COMPLIES
GROUP 2 (RESIDENTIAL)				
1ST FL	200-0" (SPRINKLERED)	42 FT = (21 FT + 21 FT)	42 FT < 200 FT	COMPLIES
2ND FL		38 FT	38 FT < 200 FT	COMPLIES
3RD FL		21 FT = (6 FT + 15 FT)	21 FT < 200 FT	COMPLIES
4TH FL		22 FT	22 FT < 200 FT	COMPLIES

OCCUPANCY LOAD ANALYSIS: 2014 CODE AS PER 1004.1.1			
OCCUPANCY GROUP	GROUP 6C	GROUP 3	GROUP 2 (R-5)
MINIMUM FL. AREA PER OCCUPANT	30 SF PER OCCUPANT	60 SF PER OCCUPANT	200 SF PER OCCUPANT IN DWELLING UNIT
	COMMERCIAL USE	NON-COMMERCIAL ART GALLERY	DWELLING UNIT (3RD FL. & 4TH FL.)
GROSS FL. AREA OF	1,705 SF	504 SF	2,878 SF
MAXIMUM NUMBER OF OCCUPANTS	1,705 SF / 30 = 57 OCCUPANTS	504 SF / 60 = 8 OCCUPANTS	2,878 SF / 200 = 14 OCCUPANTS
PROPOSED NUMBER OF OCCUPANTS	57 OCCUPANTS	8 OCCUPANTS	5 OCCUPANTS
EXIT LOAD: AS PER BC 1014 (TABLE 1014.1)			
MAXIMUM OCCUPANT LOAD	74 MAX PER DOOR	74 MAX PER DOOR	20 MAX PER DOOR
PROPOSED ONE 36" EXIT PER USE	57 OCCUPANTS < 74 FOR 1 DOOR	8 OCCUPANTS < 74 FOR 1 DOOR	5 OCCUPANTS < 20 FOR 1 DOOR

LEGEND:

- NEW EXTERIOR PARTITION SEE WALL TYPE A-600.00
- NEW INTERIOR PARTITION SEE WALL TYPE A-600.00
- NEW MASONRY PARTITION SEE WALL TYPE A-600.00
- FIRE SEPARATION PARTITION SEE WALL TYPE A-600.00
- SECTION
- ELEVATION
- DETAIL
- WALL TYPE
- CARBON MONOXIDE/ SMOKE DETECTOR
- EXHAUST VENT
- FLOOR OR AREA OR YARD DRAIN
- PROGRAMMABLE THERMOSTAT
- 1ST FL. ELEV. 9'-0" ELEVATION MARKS
- EXIT SIGN

NOTES:

1. MAINTAIN 1 HR FIRE RATING AT ALL PARTITIONS & CEILING BETWEEN ALL TENANT SPACES.
2. INSTALL SMOKE/CM DETECTORS AS PER NYC BLDG. CODE. SMOKE/CM DETECTORS TO BE INTERCONNECTED SO THAT ONE WILL ACTIVATE ALL DETECTORS IN DWELLING UNITS.
3. INSTALL NEW 5/ 8" GYP. BD. AT NEW PARTITION LOCATIONS AND AT NEW CEILINGS.
4. ALL BATH AND KITCHEN AREAS TO HAVE MILDEW RESISTANT GYP. BD.
5. WET FLOOD PROOFING
   - 5.1. ALL ENCLOSED SPACES BELOW THE (DFE) DESIGN FLOOD ELEVATION ARE TO BE USABLE SOLELY FOR PARKING, BUILDING ACCESS, STORAGE, OR CRAWL SPACE AND SHALL BE WET FLOODPROOFED IN ACCORDANCE WITH ASCE 24.
   - 5.2. ONLY FLOOD-DAMAGE-RESISTANT MATERIALS AND FINISHES SHALL BE UTILIZED BELOW THE DESIGN FLOOD ELEVATION.
   - 5.3. UTILITIES AND ATTENDANT EQUIPMENT SHALL BE LOCATED AT OR ABOVE THE DESIGN FLOOD ELEVATION, OR SHALL BE CONSTRUCTED SO AS TO PREVENT WATER FROM ENTERING OR ACCUMULATING WITHIN THE COMPONENTS DURING CONDITIONS OF FLOODING IN ACCORDANCE WITH ASCE 24.
6. DRY FLOOD PROOFING
   - 6.1. PROVIDED IN NON-RESIDENTIAL FLOOR LEVEL OF BUILDING ONLY.
   - 6.3. ALL WALLS BELOW A HEIGHT OF 9FT ABOVE GRADE (DFE) NEED TO BE A CONTINUOUS IMPERMEABLE WALL, TEMPORARY FLOOD SHIELD TO COVER ALL OPENINGS. THE CONTINUOUS IMPERMEABLE WALL TO HAVE A WATERPROOFING MEMBRANE ON THAT SEAL THE WALL ON ALL SIDES.
   - 6.4. TEMPORARY FLOOD SHIELD TO COVER ALL OPENINGS FROM GRADE TO A HEIGHT OF 9FT ABOVE GRADE (DFE) AS PER ASCE-24.
   - 6.5. ARCHITECT TO INSPECT AND APPROVE THE LOCATION, INSTALLATION AND METHOD OF STORAGE FOR ALL TEMPORARY FLOOD SHIELD AS PER BC G105.3.
   - 6.6 PROVIDE FLOOR DRAINS AT BASE OF FLOOD SHIELD.
7. ALL NEW WINDOWS TO BE ALUM. DBL GLAZED WITH A U-FACTOR OF 0.35 MIN AS PER NYCCC (TYP.)

SPECIAL RED HOOK MIXED USE DISTRICT NOTES:

1. LOCATION OF USE IN MIXED USE BUILDING (ZR 123-31)
   - 1.1. NON-RESIDENTIAL USE CAN BE LOCATED ON A PORTION OF THE SAME STORY AS RESIDENTIAL USE, IF THE NON-RESIDENTIAL USE IS ONE STORY BELOW THE LOWEST STORY OCCUPIED BY DWELLING UNITS.
2. ENVIRONMENTAL CONDITIONS (ZR 123-32)
   - 2.1. DWELLING UNITS SHALL BE PROVIDED WITH A MINIMUM 35 DECIBELS OF WINDOWS WALL ATTENUATION TO MAINTAIN AN INTERIOR NOISE LEVEL OF 45 DECIBELS OR LESS, WITH WINDOWS CLOSED, AND SHALL PROVIDE AN ALTERNATE MEANS OF VENTILATION.

MECHANICAL EQUIPMENT SCHEDULE

HVAC-1, HVAC-3	GOLD SV GAS FURNACE MODEL NO. AUD2C100A9V5VA, 80 AFUE GOLD XI AIR CONDITIONER 5 TON, 16 SEER MODEL NO 4A7A5060 S/N TBD, NATE, AHRI & CSA CERTIFIED
HVAC-2	MITSUBISHI AIR HANDLER MODEL NO MSY-GE12NA 12 000 BTU MITSUBISHI CONDENSING UNIT 1 TON, 20.5 SEER MODEL NO. MUY-GE12NA S/N TBD, ARI & ETL LISTED
HVAC-4	GOLD SV GAS FURNACE MODEL NO AUD2B080A9V3VB, 80 AFUE GOLD XI AIR CONDITIONER 3 TON, 17 SEER MODEL NO 4A7A5048 S/N TBD, NATE, AHRI & CSA CERTIFIED
HWH -1, HWH -2	AO SMITH PROMAX MODEL NO. PCG-75, 75 GALLONS ENERGY FACTOR 80% GAS, 75,000 BTU/HR MEA NO. 346-06-E
HWH -3	AO SMITH PROMAX MODEL NO. EJCS-20, 25 GALLONS ENERGY FACTOR N/A ELECTRIC, 2,500 W MEA NO. 25-05-E
BATH EXHAUST	PANNASONIC EXHAUST VENT MODEL NO FV-07VBA1

Eric Safyan / Architect P.C.
540 President Street / 3rd Fl
Brooklyn NY 11215
tel 718 938 8806
fax 718 596 4697
es-architect.com

No.	Description	Date
	OWNER REVIEW	03.16.15
	OWNER REVIEW	12.15.14

Revisions:

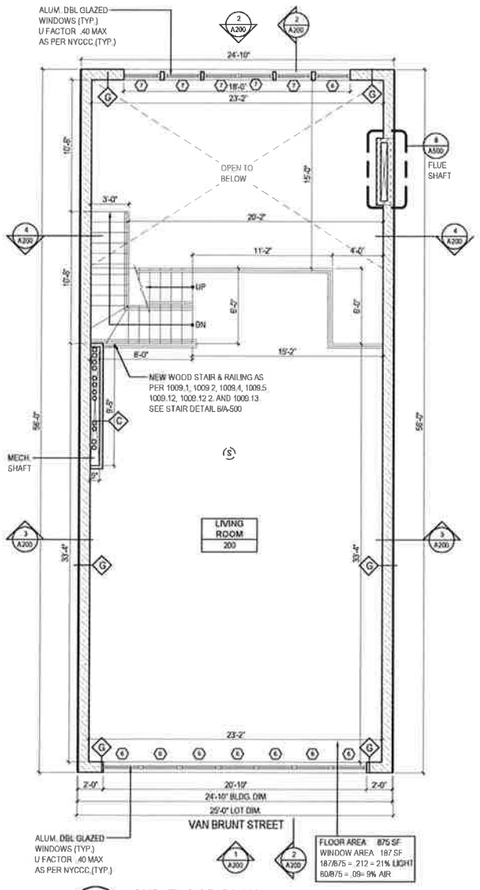
Project:
430 Van Brunt St
Brooklyn, NY 11231

Sheet Title:
CELLAR PLAN. 1ST FLOOR PLAN

Job No.: 014-03.00
Scale: AS SHOWN
Drawn: ES, KK
Date: 12.15.14

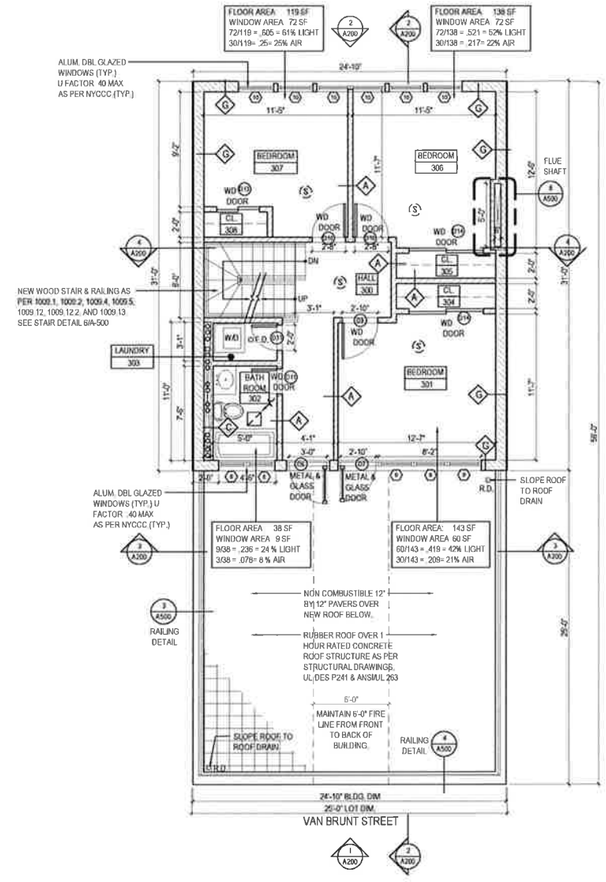
Job Label:

Drawing No.:
A-100.00



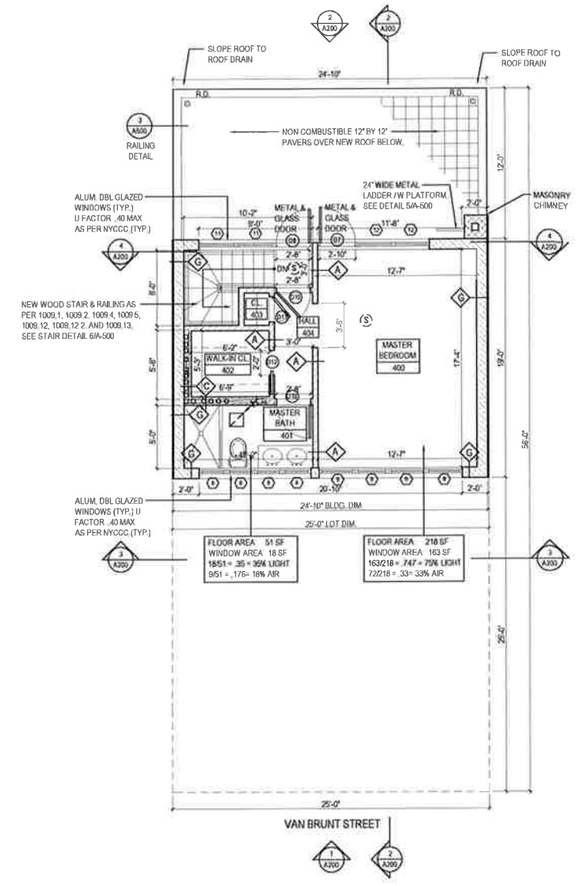
2 2ND FLOOR PLAN

SCALE: 3/16" = 1'-0"



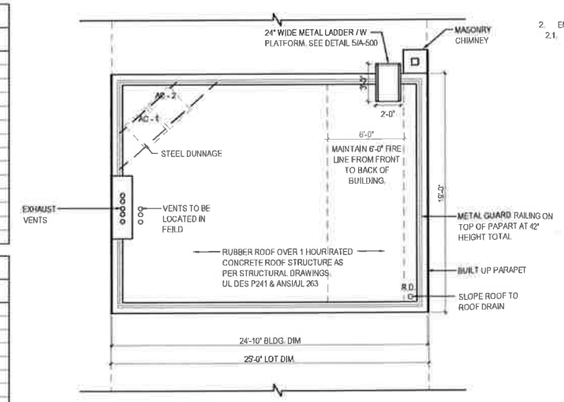
3 3RD FLOOR PLAN

SCALE: 3/16" = 1'-0"



4 4TH FLOOR PLAN

SCALE: 3/16" = 1'-0"



5 ROOF PLAN

SCALE: 3/16" = 1'-0"

LEGEND:

- NEW EXTERIOR PARTITION SEE WALL TYPE A-600.00
- NEW INTERIOR PARTITION SEE WALL TYPE A-600.00
- NEW MASONRY PARTITION SEE WALL TYPE A-600.00
- FIRE SEPARATION PARTITION SEE WALL TYPE A-600.00
- SECTION
- ELEVATION
- DETAIL
- WALL TYPE
- CARBON MONOXIDE/ SMOKE DETECTOR
- EXHAUST VENT
- FLOOR OR AREA OR YARD DRAIN
- PROGRAMMABLE THERMOSTAT
- 1ST FL. ELEV. 8'-0" — ELEVATION MARKS
- EXIT SIGN

NOTES:

1. MAINTAIN 1 HR FIRE RATING AT ALL PARTITIONS & CEILING BETWEEN ALL TENANT SPACES.
2. INSTALL SMOKE/C.M. DETECTORS AS PER NYC BLDG. CODE. SMOKE/C.M. DETECTORS TO BE INTERCONNECTED SO THAT ONE WILL ACTIVATE ALL DETECTORS IN DWELLING UNITS.
3. INSTALL NEW 5/8" GYP. BD. AT NEW PARTITION LOCATIONS AND AT NEW CEILINGS.
4. ALL BATH AND KITCHEN AREAS TO HAVE MILDEW RESISTANT GYP. BD.
5. WET FLOOD PROOFING
   - 5.1. ALL ENCLOSED SPACES BELOW THE (DFE) DESIGN FLOOD ELEVATION ARE TO BE USABLE SOLELY FOR PARKING, BUILDING ACCESS, STORAGE, OR CRAWLSPACE AND SHALL BE WET FLOODPROOFED IN ACCORDANCE WITH ASCE 24.
   - 5.2. ONLY FLOOD-DAMAGE-RESISTANT MATERIALS AND FINISHES SHALL BE UTILIZED BELOW THE DESIGN FLOOD ELEVATION.
   - 5.3. UTILITIES AND ATTENDANT EQUIPMENT SHALL BE LOCATED AT OR ABOVE THE DESIGN FLOOD ELEVATION, OR SHALL BE CONSTRUCTED SO AS TO PREVENT WATER FROM ENTERING OR ACCUMULATING WITHIN THE COMPONENTS DURING CONDITIONS OF FLOODING IN ACCORDANCE WITH ASCE 24.
6. DRY FLOOD PROOFING
   - 6.1. PROVIDED IN NON- RESIDENTIAL FLOOR LEVEL OF BUILDING ONLY.
   - 6.3. ALL WALLS BELOW A HEIGHT OF 9FT ABOVE GRADE (DFE) NEED TO BE A CONTINUOUS IMPERMEABLE WALL, TEMPORARY FLOOD SHIELD TO COVER ALL OPENINGS. THE CONTINUOUS IMPERMEABLE WALL TO HAVE A WATERPROOFING MEMBRANE ON THAT SEAL THE WALL ON ALL SIDES.
   - 6.4. TEMPORARY FLOOD SHIELD TO COVER ALL OPENINGS FROM GRADE TO A HEIGHT OF 9FT ABOVE GRADE (DFE) AS PER ASCE-24.
   - 6.5. ARCHITECT TO INSPECT AND APPROVE THE LOCATION, INSTALLATION AND METHOD OF STORAGE FOR ALL TEMPORARY FLOOD SHIELD AS PER BC G105.3.
   - 6.6. PROVIDE FLOOR DRAINS AT BASE OF FLOOD SHIELD.
7. ALL NEW WINDOWS TO BE ALUM. DBL GLAZED WITH A U-FACTOR OF 0.35 MIN AS PER NYCCC (TYP.)

SPECIAL RED HOOK MIXED USE DISTRICT NOTES:

1. LOCATION OF USE IN MIXED USE BUILDING *(ZR 123-31)*
   - 1.1. NON-RESIDENTIAL USE CAN BE LOCATED ON A PORTION OF THE SAME STORY AS RESIDENTIAL USE IF THE NON-RESIDENTIALUSE IS ONE STORY BELOW THE LOWEST STORY OCCUPIED BY DWELLING UNITS.
2. ENVIRONMENTAL CONDITIONS *(ZR 123-32)*
   - 2.1. DWELLING UNITS SHALL BE PROVIDED WITH A MINIMUM 35 DECIBELS OF WINDOWS WALL ATTENUATION TO MAINTAIN AN INTERIOR NOISE LEVEL OF 46 DECIBELS OR LESS, WITH WINDOWS CLOSED, AND SHALL PROVIDE AN ALTERNATE MEANS OF VENTILATION.

DOOR SCHEDULE

WIN. NO.	SIZE W X H	TYPE	MATERIAL	QUANTITY	FIRE RATING	U FACTOR	REMARKS
01	3'-0" X 7'-0"	STOREFRONT	ALUM. / GLASS	1	N/A	.40	.40 MIN U FACTOR AS PER NYCECC. DOOR AS PART OF ASSEMBLY SEE DOOR TYP 1
02	6'-0" X 6'-0"	ROLL UP GATE SCREEN	METAL	2	N/A	N/A	ROLL UP GATE W/50% TRANSPARENT SCREEN AS PER ZR-64-22.
03	3'-0" X 7'-0"	FLUSH HOLLOW CORE	METAL	2	N/A	N/A	
04	3'-0" X 7'-0"	FLUSH SOLID CORE	METAL	1	3/4	N/A	FIRE PROOF SELF CLOSING
05	2'-10" X 7'-0"	FLUSH SOLID CORE	METAL	2	3/4	N/A	FIRE PROOF SELF CLOSING
06	3'-0" X 7'-0"	GLASS	METAL & GLASS	3	N/A	.85	.85 MIN U FACTOR AS PER NYCECC
07	2'-10" X 7'-0"	GLASS	METAL & GLASS	4	N/A	.85	.85 MIN U FACTOR AS PER NYCECC
08	2'-8" X 7'-0"	GLASS	METAL & GLASS	2	N/A	.85	.85 MIN U FACTOR AS PER NYCECC
09	2'-10" X 7'-0"	FLUSH SOLID CORE	WOOD	1	N/A	N/A	
010	2'-8" X 7'-0"	FLUSH SOLID CORE	WOOD	5	N/A	N/A	
011	2'-0" X 7'-0"	FLUSH SOLID CORE	WOOD	5	N/A	N/A	
012	2'-0" X 7'-0"	POCKET FLUSH HOLLOW CORE	WOOD	1	N/A	N/A	
013	3'-6" X 7'-0"	DOUBLE SLIDING FLUSH HOLLOW CORE	WOOD	2	N/A	N/A	
014	5'-10" X 7'-0"	DOUBLE SLIDING FLUSH HOLLOW CORE	WOOD	2	N/A	N/A	

WINDOW SCHEDULE

WIN. NO.	SIZE W X H	WINDOW TYPE	MATERIAL	QUANTITY	GLAZING	U FACTOR	REMARKS
1	8'-0" X 8'-0"	STOREFRONT SYSTEM	ALUM.	1	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC. DOOR AS PART OF ASSEMBLY SEE DOOR TYP 1
2	4'-0" X 2'-6"	SLIDER	ALUM.	2	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC
3	3'-4" X 7'-0"	CASEMENT & PICTURE	ALUM.	4	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC
4	7'-0" X 7'-0"	SLIDER	ALUM.	1	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC
5	2'-10" X 10'-4"	PICTURE	ALUM.	4	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC
6	3'-0" X 6'-0"	CASEMENT & PICTURE	ALUM.	7	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC
7	2'-10" X 10'-0"	PICTURE	ALUM.	5	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC
8	2'-0" X 2'-2"	CASEMENT & PICTURE	ALUM.	6	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC
9	2'-8" X 5'-0"	CASEMENT & PICTURE	ALUM.	7	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC
10	2'-10" X 8'-0"	CASEMENT & PICTURE	ALUM.	6	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC
11	3'-0" X 5'-0"	PICTURE	ALUM.	2	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC
12	2'-10" X 8'-0"	PICTURE	ALUM.	2	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC

Eric Safyan / Architect P.C.
540 President Street / 3rd Fl
Brooklyn NY 11215
tel 718 938 8806
fax 718 596 4697
es-architect.com

No.	Description	Date
	OWNER REVIEW	03.16.15
	OWNER REVIEW	12.15.14

Revisions:

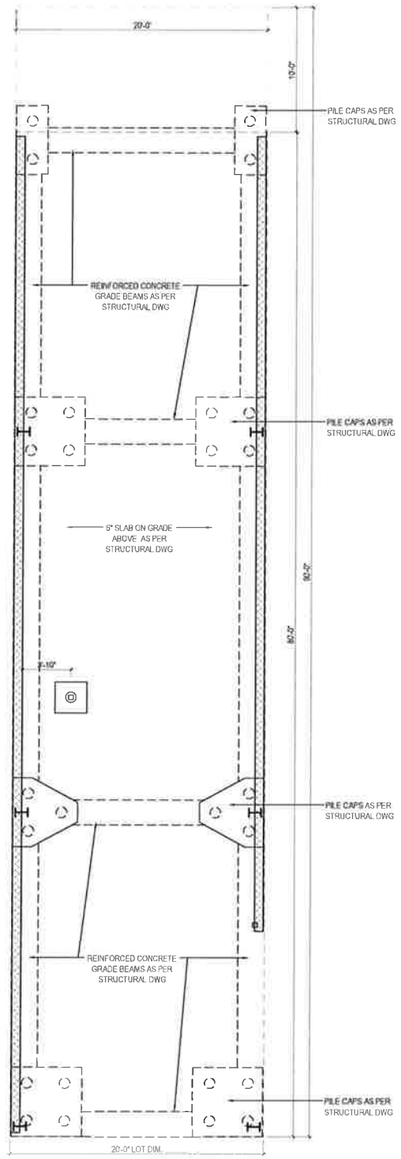
Project:
430 Van Brunt St
Brooklyn, NY 11231

Sheet Title:
3RD FLOOR PLAN, 4TH FLOOR PLAN.

Job No.: 014-03.00
Scale: AS SHOWN
Drawn: ES, KK
Date: 12.15.14

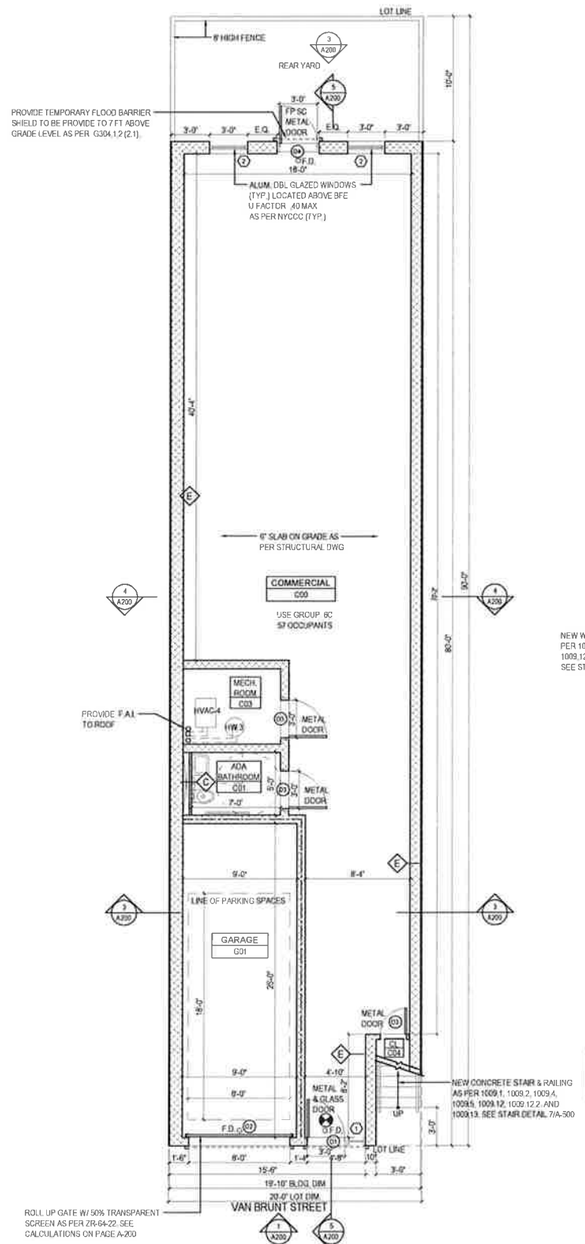
Job Label:

Drawing No.:
A-101.00



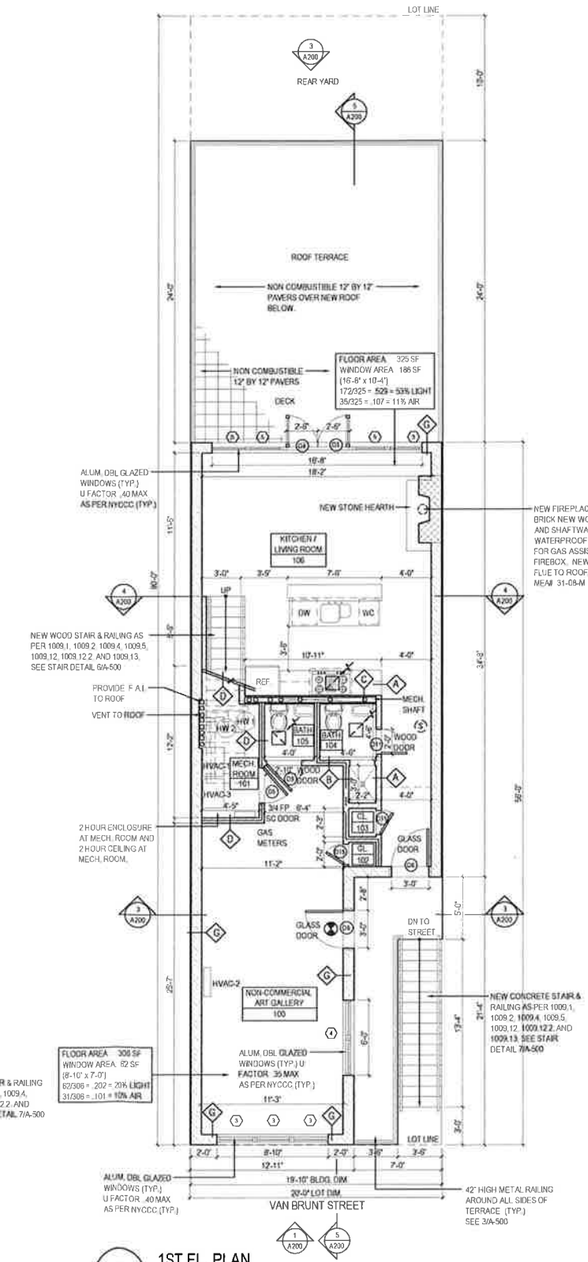
F FOUNDATION PLAN

SCALE: 3/16" = 1'-0"



C CELLAR FLOOR PLAN

SCALE: 3/16" = 1'-0"



1 1ST FL. PLAN

SCALE: 3/16" = 1'-0"

EXIT ACCESS TRAVEL DISTANCE 2014 CODE AS PER BC 1016.1			
	MAXIMUM TRAVEL DISTANCE	ACTUAL TRAVEL DISTANCE	
GROUP 3 (COMMUNITY FACILITY)			
1ST FL.	200'-0" (SPRINKLERED)	19 FT	19 FT < 200 FT. COMPLIES
GROUP 2 (RESIDENTIAL)			
1ST FL.	200'-0" (SPRINKLERED)	32 FT = (15 FT + 24 FT)	32 FT < 200 FT. COMPLIES
2ND FL.		38 FT	38 FT < 200 FT. COMPLIES
3RD FL.		38 FT = (15 FT + 16 FT + 7 FT)	38 FT < 200 FT. COMPLIES
4TH FL.		31 FT = (15 FT + 10 FT + 6 FT)	31 FT < 200 FT. COMPLIES

OCCUPANCY LOAD ANALYSIS: 2008 CODE AS PER 1004.1.1			
OCCUPANCY GROUP	GROUP 6C	GROUP 3	GROUP 2 (R-3)
MINIMUM FL. AREA PER OCCUPANT	30 SF PER OCCUPANT	60 SF PER OCCUPANT	200 SF PER OCCUPANT IN DWELLING UNIT
	COMMERCIAL USE	NON-COMMERCIAL ART GALLERY	DWELLING UNIT (3RD FL. & 4TH FL.)
GROSS FL. AREA OF	1,169 SF	401 SF	1,021 SF
MAXIMUM NUMBER OF OCCUPANTS	1,169 SF / 30 = 39 OCCUPANTS	401 SF / 60 = 7 OCCUPANTS	2-021 SF / 200 = 5 OCCUPANTS
PROPOSED NUMBER OF OCCUPANTS	39 OCCUPANTS	7 OCCUPANTS	5 OCCUPANTS
EXIT LOAD: AS PER BC 1014 (TABLE 1014.1)			
MAXIMUM OCCUPANT LOAD	74 MAX PER DOOR	74 MAX PER DOOR	20 MAX PER DOOR
PROPOSED ONE 36" EXIT PER USE:	39 OCCUPANTS < 74 FOR 1 DOOR	7 OCCUPANTS < 74 FOR 1 DOOR	5 OCCUPANTS < 20 FOR 1 DOOR

LEGEND:

- NEW EXTERIOR PARTITION SEE WALL TYPE A-600.00
- NEW INTERIOR PARTITION SEE WALL TYPE A-600.00
- NEW MASONRY PARTITION SEE WALL TYPE A-600.00
- FIRE SEPARATION PARTITION SEE WALL TYPE A-600.00
- SECTION
- ELEVATION
- DETAIL
- WALL TYPE
- CARBON MONOXIDE/ SMOKE DETECTOR
- EXHAUST VENT
- FLOOR OR AREA OR YARD DRAIN
- PROGRAMMABLE THERMOSTAT
- 1ST FL. ELEV. 9'-0" ELEVATION MARKS
- EXIT SIGN

NOTES:

1. MAINTAIN 1 HR FIRE RATING AT ALL PARTITIONS & CEILING BETWEEN ALL TENANT SPACES.
2. INSTALL SMOKE/C.M. DETECTORS AS PER NYC BLDG. CODE. SMOKE/C.M. DETECTORS TO BE INTERCONNECTED SO THAT ONE WILL ACTIVATE ALL DETECTORS IN DWELLING UNITS.
3. INSTALL NEW 5/8" GYP. BD. AT NEW PARTITION LOCATIONS AND AT NEW CEILINGS.
4. ALL BATH AND KITCHEN AREAS TO HAVE MILDEW RESISTANT GYP. BD.
5. WET FLOOD PROOFING
   - 5.1. ALL ENCLOSED SPACES BELOW THE (DFE) DESIGN FLOOD ELEVATION ARE TO BE USABLE SOLELY FOR PARKING, BUILDING ACCESS, STORAGE, OR CRAWLSPACE AND SHALL BE WET FLOODPROOFED IN ACCORDANCE WITH ASCE 24.
   - 5.2. ONLY FLOOD-DAMAGE-RESISTANT MATERIALS AND FINISHES SHALL BE UTILIZED BELOW THE DESIGN FLOOD ELEVATION. UTILITIES AND ATTENDANT EQUIPMENT SHALL BE LOCATED AT OR ABOVE THE DESIGN FLOOD ELEVATION, OR SHALL BE CONSTRUCTED SO AS TO PREVENT WATER FROM ENTERING OR ACCUMULATING WITHIN THE COMPONENTS DURING CONDITIONS OF FLOODING IN ACCORDANCE WITH ASCE 24.
   - 5.3.
6. DRY FLOOD PROOFING
   - 6.1. PROVIDED IN NON- RESIDENTIAL FLOOR LEVEL OF BUILDING ONLY.
   - 6.3. ALL WALLS BELOW A HEIGHT OF 9FT ABOVE GRADE (DFE) NEED TO BE A CONTINUOUS IMPERMEABLE WALL, TEMPORARY FLOOD SHIELD TO COVER ALL OPENINGS. THE CONTINUOUS IMPERMEABLE WALL TO HAVE A WATERPROOFING MEMBRANE ON THAT SEAL THE WALL ON ALL SIDES.
   - 6.4. TEMPORARY FLOOD SHIELD TO COVER ALL OPENINGS FROM GRADE TO A HEIGHT OF 9FT ABOVE GRADE (DFE) AS PER ASCE-24.
   - 6.5. ARCHITECT TO INSPECT AND APPROVE THE LOCATION, INSTALLATION AND METHOD OF STORAGE FOR ALL TEMPORARY FLOOD SHIELD AS PER BC G105.3.
   - 6.6. PROVIDE FLOOR DRAINS AT BASE OF FLOOD SHIELD.
7. ALL NEW WINDOWS TO BE ALUM. DBL GLAZED WITH A U-FACTOR OF 0.35 MIN AS PER NYCCC (TYP.)

SPECIAL RED HOOK MIXED USE DISTRICT NOTES:

1. LOCATION OF USE IN MIXED USE BUILDING (ZR 123-31)
   - 1.1. NON-RESIDENTIAL USE CAN BE LOCATED ON A PORTION OF THE SAME STORY AS RESIDENTIAL USE, IF THE NON-RESIDENTIAL USE IS ONE STORY BELOW THE LOWEST STORY OCCUPIED BY DWELLING UNITS.
2. ENVIRONMENTAL CONDITIONS (ZR 123-32)
   - 2.1. DWELLING UNITS SHALL BE PROVIDED WITH A MINIMUM 35 DECIBELS OF WINDOWS WALL ATTENUATION TO MAINTAIN AN INTERIOR NOISE LEVEL OF 45 DECIBELS OR LESS, WITH WINDOWS CLOSED, AND SHALL PROVIDE AN ALTERNATE MEANS OF VENTILATION.

MECHANICAL EQUIPMENT SCHEDULE

HVAC-1, HVAC-3	GOLD SV GAS FURNACE MODEL NO. AUD2C080A9V4VA, 80 AFUE GOLD XI AIR CONDITIONER 4 TON, 16 SEER MODEL NO. 4A7A5048 S/N TBD, NATE, AHRI & CSA CERTIFIED
HVAC-2	MITSUBISHI AIR HANDLER MODEL NO. MSY-GE12NA,12,000 BTU MITSUBISHI CONDENSING UNIT 1 TON, 20.5 SEER MODEL NO. MUY-GE12NA S/N TBD, ARI & ETL LISTED
HVAC-4	GOLD SV GAS FURNACE MODEL NO. AUD2B080A9V3VB, 80 AFUE GOLD XI AIR CONDITIONER 3 TON, 17 SEER MODEL NO. 4A7A5048 S/N TBD, NATE, AHRI & CSA CERTIFIED
HWH-1, HWH-2	AO SMITH PROMAX MODEL NO. PCG-75, 75 GALLONS ENERGY FACTOR 80% GAS, 75,000 BTU/HR MEA NO. 346-06-E
HWH-3	AO SMITH PROMAX MODEL NO. EJCS-20, 25 GALLONS ENERGY FACTOR N/A ELECTRIC, 2,500 W MEA NO. 25-05-E
BATH EXHAUST	PANNASONIC EXHAUST VENT MODEL NO. FV-07VBA1

Eric Safyan / Architect P.C.
540 President Street / 3rd Fl
Brooklyn NY 11215
tel 718 938 8806
fax 718 596 4697
es-architect.com

No.	Description	Date
	OWNER REVIEW	03.16.15
	OWNER REVIEW	12.16.14

Revisions:

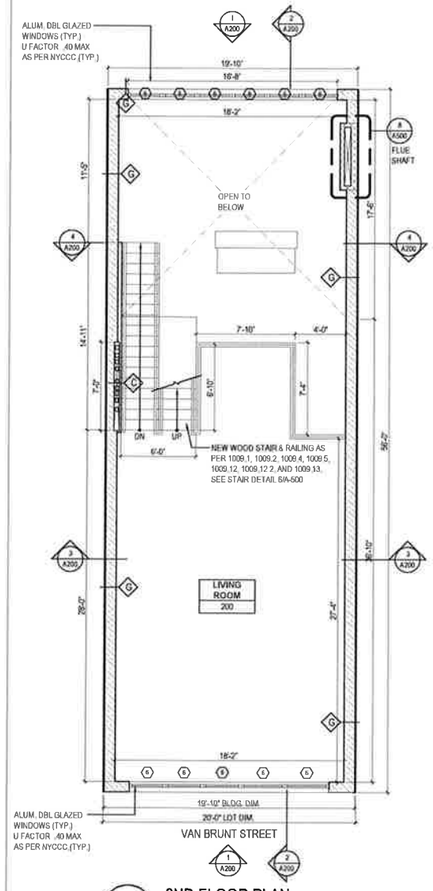
Project:
432 Van Brunt St
Brooklyn, NY 11231

Sheet Title:
CELLAR PLAN 1ST FLOOR PLAN

Job No.: 014-03.00
Scale: AS SHOWN
Drawn: ES, KK
Date: 03.14.15

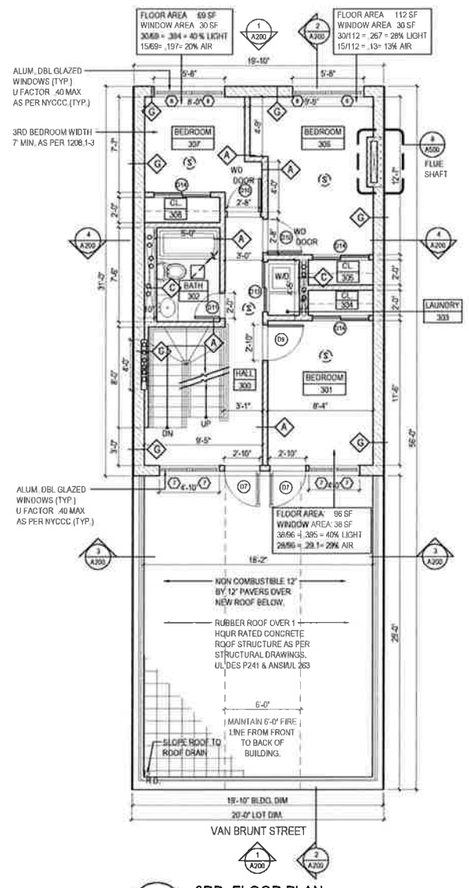
Job Label:

Drawing No.:
A-100.00



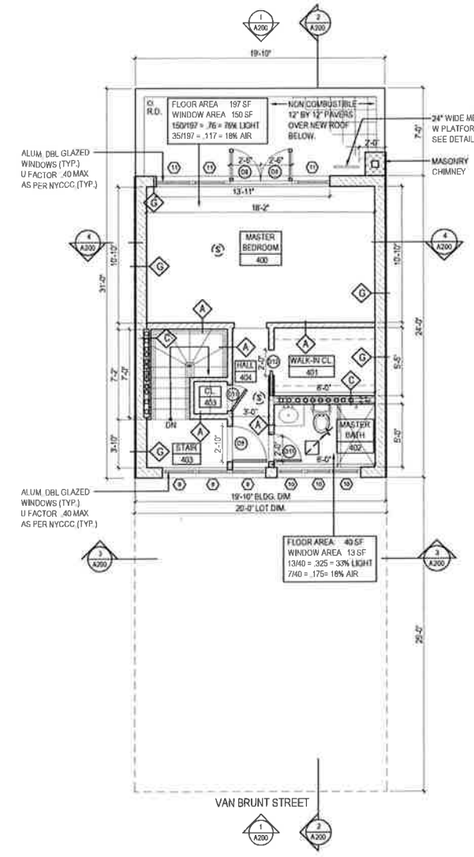
2 2ND FLOOR PLAN

SCALE: 3/16" = 1'-0"



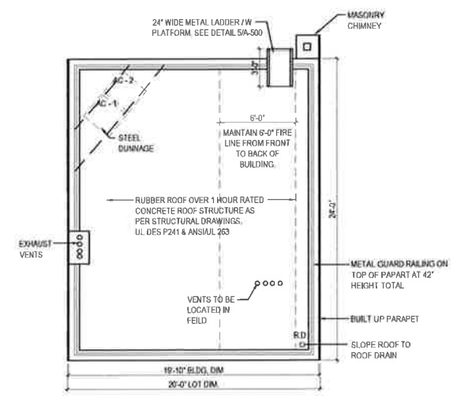
3 3RD FLOOR PLAN

SCALE: 3/16" = 1'-0"



4 4TH FLOOR PLAN

SCALE: 3/16" = 1'-0"



5 ROOF PLAN

SCALE: 3/16" = 1'-0"

LEGEND:

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- NEW INTERIOR PARTITION SEE WALL TYPE A-600.00
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- FIRE SEPARATION PARTITION SEE WALL TYPE A-600.00
- SECTION
- ELEVATION
- DETAIL
- WALL TYPE
- CARBON MONOXIDE/ SMOKE DETECTOR
- EXHAUST VENT
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- 1ST FL ELEV. 9'-0" ELEVATION MARKS
- EXIT SIGN

NOTES:

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4. ALL BATH AND KITCHEN AREAS TO HAVE MILDEW RESISTANT GYP. BD.
5. WET FLOOD PROOFING.
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6. DRY FLOOD PROOFING.
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   - 6.4. TEMPORARY FLOOD SHIELD TO COVER ALL OPENINGS FROM GRADE TO A HEIGHT OF 9FT ABOVE GRADE (DFE) AS PER ASCE-24.
   - 6.5. ARCHITECT TO INSPECT AND APPROVE THE LOCATION, INSTALLATION AND METHOD OF STORAGE FOR ALL TEMPORARY FLOOD SHIELD AS PER BC 3105.3.
   - 6.6. PROVIDE FLOOR DRAINS AT BASE OF FLOOD SHIELD.
7. ALL NEW WINDOWS TO BE ALUM. DBL GLAZED WITH A U-FACTOR OF 0.35 MIN AS PER NYCCC (TYP.)

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DOOR SCHEDULE

WIN. NO.	SIZE W X H	TYPE	MATERIAL	QUANTITY	FIRE RATING	U FACTOR	REMARKS
(D1)	3'-0" X 7'-0"	STOREFRONT	ALUM. / GLASS	1	N/A	N/A	.40 MIN U FACTOR AS PER NYCECC. DOOR AS PART OF ASSEMBLY SEE DOOR TYP 1
(D2)	8'-0" X 9'-0"	ROLL UP GATE SCREEN	METAL	1	N/A	N/A	ROLL UP GATE W/ 50% TRANSPARENT SCREEN AS PER ZR-64-22.
(D3)	8'-0" X 9'-0"	GARAGE DOOR	METAL	1	N/A	N/A	
(D4)	3'-0" X 7'-0"	FLUSH HOLLOW CORE	METAL	1	N/A	N/A	
(D5)	2'-10" X 7'-0"	FLUSH HOLLOW CORE	METAL	1	3/4	N/A	FIRE PROOF SELF CLOSING
(D6)	3'-0" X 7'-0"	GLASS	METAL & GLASS	2	N/A	.55	.55 MIN U FACTOR AS PER NYCECC
(D7)	2'-10" X 7'-0"	GLASS	METAL & GLASS	2	N/A	.55	.55 MIN U FACTOR AS PER NYCECC
(D8)	2'-0" X 7'-0"	GLASS	METAL & GLASS	4	N/A	.55	.55 MIN U FACTOR AS PER NYCECC
(D9)	2'-10" X 7'-0"	FLUSH SOLID CORE	WOOD	3	N/A	N/A	
(D10)	2'-8" X 7'-0"	FLUSH SOLID CORE	WOOD	2	N/A	N/A	
(D11)	2'-0" X 7'-0"	FLUSH SOLID CORE	WOOD	5	N/A	N/A	
(D12)	2'-0" X 7'-0"	POCKET FLUSH HOLLOW CORE	WOOD	1	N/A	N/A	
(D13)	4'-0" X 7'-0"	DOUBLE SLIDING FLUSH HOLLOW CORE	WOOD	3	N/A	N/A	
(D14)	4'-0" X 7'-0"	DOUBLE SLIDING FLUSH HOLLOW CORE	WOOD	1	N/A	N/A	
(D15)	1'-6" X 7'-0"	FLUSH SOLID CORE	WOOD	2	N/A	N/A	

WINDOW SCHEDULE

WIN. NO.	SIZE W X H	WINDOW TYPE	MATERIAL	QUANTITY	GLAZING	U FACTOR	REMARKS
(1)	4'-0" X 6'-0"	STOREFRONT SYSTEM	ALUM.	1	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC. DOOR AS PART OF ASSEMBLY SEE DOOR TYP 1
(2)	3'-0" X 2'-6"	SLIDER	ALUM.	2	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC.
(3)	3'-0" X 7'-0"	CASEMENT & PICTURE	ALUM.	3	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC. DOOR AS PART OF ASSEMBLY SEE DOOR TYP 1
(4)	6'-0" X 7'-0"	SLIDER	ALUM.	1	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC.
(5)	2'-10" X 10'-4"	PICTURE	ALUM.	9	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC.
(6)	3'-0" X 9'-0"	CASEMENT & PICTURE	ALUM.	5	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC.
(7)	2'-0" X 4'-8"	CASEMENT	ALUM.	7	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC.
(8)	2'-10" X 5'-6"	CASEMENT	ALUM.	6	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC.
(9)	2'-8" X 5'-0"	CASEMENT & PICTURE	ALUM.	3	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC.
(10)	2'-0" X 2'-0"	CASEMENT & PICTURE	ALUM.	3	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC.
(11)	2'-0" X 9'-0"	PICTURE	ALUM.	4	INSUL.	.40	.40 MIN U FACTOR AS PER NYCECC.

Eric Safyan / Architect P.C.
540 President Street / 3rd Fl
Brooklyn NY 11215
tel 718 938 8806
fax 718 596 4697
es-architect.com

No.	Description	Date
	OWNER REVIEW	03.16.15
	OWNER REVIEW	12.16.14

Revisions:

Project:
432 Van Brunt St
Brooklyn, NY 11231

Sheet Title:
3RD FLOOR PLAN,
4TH FLOOR PLAN

Job No.: 014-03.00
Scale: AS SHOWN
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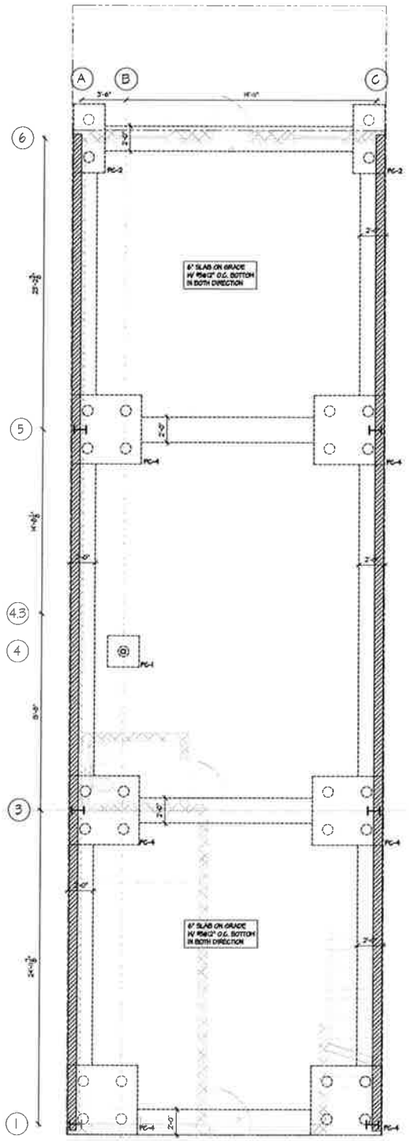
Appendix 3

Foundation Plan



FOUNDATION PLAN

NOTE: SCALE: 3/16" = 1'-0"

1. REFER TO GEOTECHNICAL REPORT FOR PILING TYPES & REQUIREMENTS. PILE CONTRACTOR'S PROFESSIONAL ENGINEERING TO SIGN OFF PILE DESIGN & CONSTRUCTION & CONTROL INSPECTION FOR PILE. SUBMIT SHOP DRAWINGS TO ARCHITECTS FOR REVIEW PRIOR TO CONSTRUCTION.

2. REFER TO SOIL REPORT BY OTHER CONSULTANT FOR ALL OTHER REQUIREMENT & PRE-CAUTION.

○ DENOTES PILES WITH MINIMUM ALLOWABLE VERTICAL CAPACITY OF 50 TONS. ALL PILES SHALL BE DESIGNED BY PILES CONSULTANT / CONTRACTORS, SIGNED & SEALED BY THEIR PROFESSIONAL ENGINEER & SUBMIT TO BUILDING DEPARTMENT. REFER TO RELEVANT DRAWINGS FOR ADDITIONAL INFORMATION & REQUIREMENT.

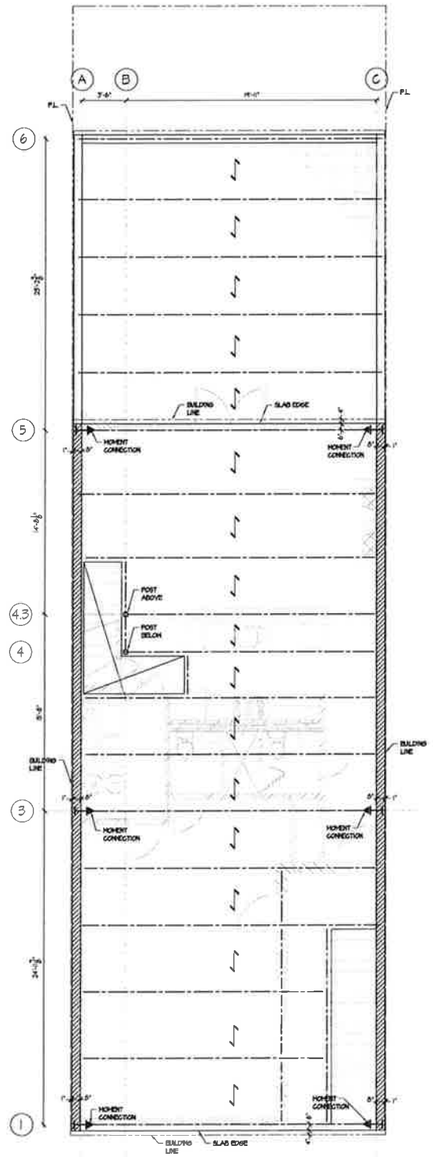
3. AVOID EXCESSIVE VIBRATION DURING CONSTRUCTION. VELOCITY METERS SHALL BE INSTALLED AT ADJACENT BUILDINGS TO MONITOR INDUCE VIBRATIONS DURING CONSTRUCTION. STOP CONSTRUCTION AND NOTIFY ENGINEER AND ARCHITECT IMMEDIATELY IF VALUES EXCEEDING THE LEVEL ALLOWED BY NYC CODE AND BUILDING CODE. CONTROL INSPECTION ENGINEER SHALL REPORT ANY UN-SAFE CONDITION TO THE DEPARTMENT OF BUILDING & ALL RELEVANT PARTIES ONCE UNSAFE CONDITION ENCOUNTERED.

4. MONITOR POINTS SHALL BE SET UP AT ADJACENT BUILDINGS PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL MONITOR ANY MOVEMENT IN BOTH VERTICAL & HORIZONTAL DIRECTIONS REGULARLY & FREQUENTLY. IN CASE ANY MOVEMENT OCCUR, STOP ALL WORKS & NOTIFY ALL PARTIES IMMEDIATELY.

5. SEE ARCH DWG FOR ALL FIREPROOFING & WATERPROOFING REQUIREMENTS & DETAILS.

6. TEMPORARY SHORE EXISTING STRUCTURES FULLY AT WHERE NEEDED PRIOR TO ANY WORK.

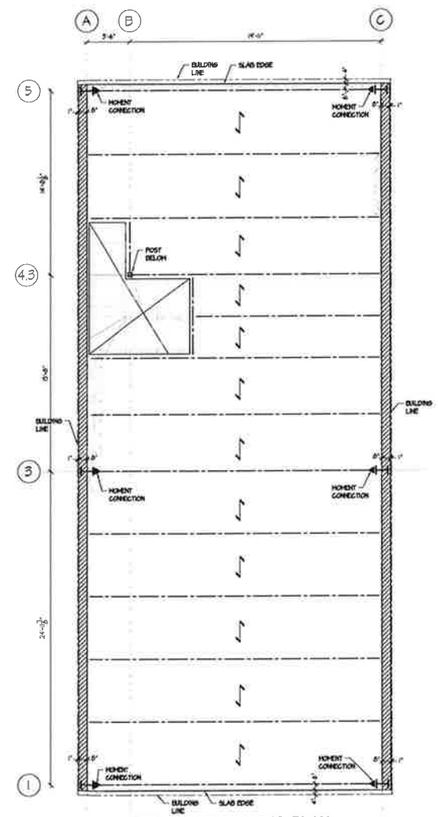
7. T.O.P.G DENOTES TOP OF PILE CAP.



1ST FLOOR FRAMING PLAN

SCALE: 3/16" = 1'-0"

SEE ARCH DWG FOR ALL FIREPROOFING & WATERPROOFING REQUIREMENTS & DETAILS.



2ND FLOOR FRAMING PLAN

SCALE: 3/16" = 1'-0"

FOUNDATION PLAN LEGEND AND NOTES

F?? INDICATES CONCRETE ISOLATED FOOTING. SEE SCHEDULE FOR SIZE.

1. DO NOT SCALE. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION.

2. SCHEDULED MARK DESIGNATIONS ARE TYPICAL TO THE PROJECT AND MAY NOT NECESSARILY BE FOUND ON THIS PLAN.

3. UNLESS NOTED OTHERWISE ON PLANS AND/OR DETAILS, DEPTH OF FOOTING DIMENSIONS INDICATED IN THE G.S.N. ARE MINIMUMS. FOUNDATION CONTRACTOR SHALL COORDINATE WITH SOIL REPORT AND ALL TRADES TO INSURE THAT THESE MINIMUMS ARE SUFFICIENT FOR THE WORK. SEE TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS.

4. BUILDING CONCRETE SLAB ON GRADE SHALL BE AS NOTED ON PLAN. VERIFY EXACT SIZE AND LOCATION OF DEPRESSED AND/OR RAISED SLABS WITH ARCH'L DRAWINGS. FOR SIDEWALK LOCATION, SEE ARCH'L DRAWINGS. FOR ADDITIONAL INFORMATION, SEE G.S.N. AND TYPICAL DETAILS.

5. PROVIDE CONTROL JOINTS IN CONCRETE SLAB ON GRADE. SEE TYPICAL DETAIL AND GENERAL NOTE FOR REQUIREMENT, AND SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

6. PROVIDE CONTROL JOINTS IN MASONRY WALL, SEE G.S.N. AND TYPICAL DETAILS FOR REQUIREMENT, AND SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

FLOOR PLAN LEGEND AND NOTES

►— — — DENOTES MOMENT CONNECTION

W-7 INDICATES LOAD BEARING MASONRY WALL. SEE MASONRY WALL SCHEDULE AND GENERAL NOTE FOR REBARS.

INDICATES LOAD BEARING MASONRY WALL. SEE MASONRY WALL SCHEDULE AND GENERAL NOTE FOR REBARS.

1. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

2. SCHEDULED MARK DESIGNATIONS ARE TYPICAL TO THE PROJECT AND MAY NOT NECESSARILY BE FOUND ON THIS PLAN.

3. PROVIDE CONTROL JOINTS IN MASONRY WALL, SEE G.S.N. AND TYPICAL DETAILS FOR REQUIREMENT, AND SEE ARCHITECURAL DRAWINGS FOR LOCATIONS.

4. FOR CLARITY, DETAILS MAY SHOW ONLY ONE SIDE OF FRAMING CONDITIONS.

6. FOR CLARITY, ALL FLOOR OPENINGS MAY NOT BE SHOWN ON FLOOR FRAMING PLAN. FOR EXACT SIZE, NUMBER AND LOCATION OF OPENINGS, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. FOR FRAMING AT OPENINGS, SEE TYPICAL DETAILS.

7. CONTRACTOR TO VERIFY AND BE RESPONSIBLE FOR VARIATIONS IN CONCRETE QUANTITY DUE TO CAMBER, CONSTRUCTION DEAD LOAD DEFLECTIONS AND/OR TOLERANCES OF STRUCTURAL STEEL ELEMENTS (i.e. BEAMS, STEEL DECK, ETC.) AND PRECAST CONCRETE ELEMENTS.

PROGRESS SET
NOT FOR CONSTRUCTION

CONSULTANTS:

MC Structural Engineering PLLC

116-55 Queens Boulevard, Suite 205, Queens, N.Y 11375
Tel: 718-263-3333 Fax: 718-263-3399

web: www.MCstructural.com
email: info@MCstructural.com

DATE	REV & DESCRIPTION

PROJECT ADDRESS

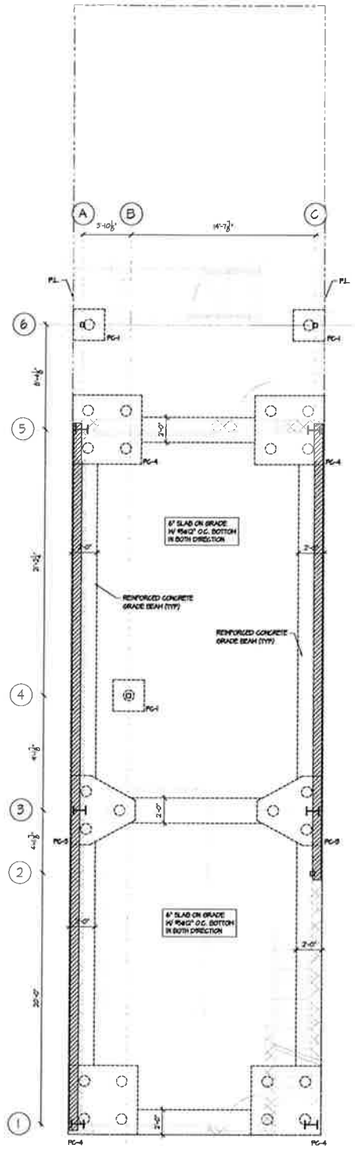
430 VAN BRUNT
BROOKLYN, NY

DRAWING CONTENT

FOUNDATION PLAN AND
1ST FLOOR FRAMING PLAN AND
2ND FLOOR FRAMING PLAN

SEAL & SIGNATURE

DATE:	11/14/14
PROJECT #:	14-041
DRAWING BY:	JH
CHECKED BY:	MC
SCALE:	AS SHOWN
DRAWING #:	S-021.00



FOUNDATION PLAN

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NOTE:

1. REFER TO GEOTECHNICAL REPORT FOR PILING TYPES & REQUIREMENTS. PILE CONTRACTOR'S PROFESSIONAL ENGINEERING TO SIGN OFF PILE DESIGN & CONSTRUCTION & CONTROL INSPECTION FOR PILE SUBMIT SHOP DRAWINGS TO ARCHITECTS FOR REVIEW PRIOR TO CONSTRUCTION.

2. REFER TO SOIL REPORT BY OTHER CONSULTANT FOR ALL OTHER REQUIREMENT & PRE-CAUTION.

○ DENOTES PILES WITH MINIMUM ALLOWABLE VERTICAL CAPACITY OF 30 TONS. ALL PILES SHALL BE DESIGNED BY PILES CONSULTANT / CONTRACTORS, SIGNED & SEALED BY THEIR PROFESSIONAL ENGINEER & SUBMIT TO BUILDING DEPARTMENT. REFER TO RELEVANT DRAWINGS FOR ADDITIONAL INFORMATION & REQUIREMENT.

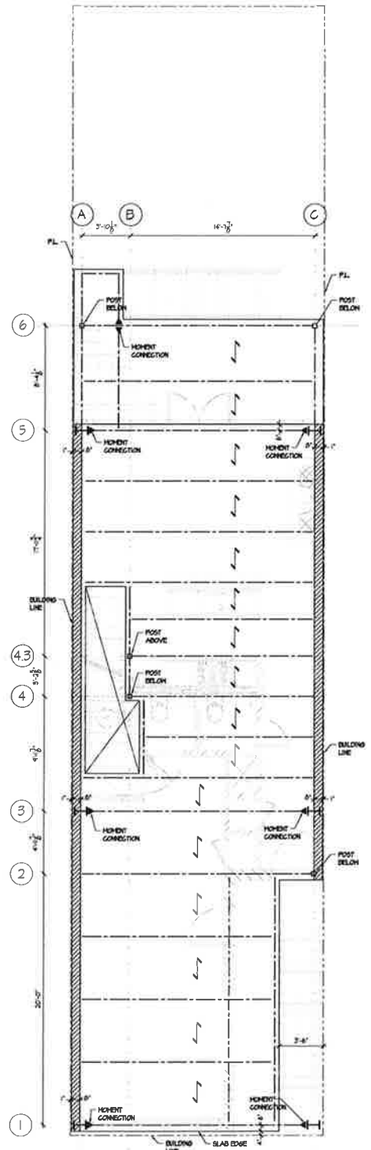
3. AVOID EXCESSIVE VIBRATION DURING CONSTRUCTION. VELOCITY METERS SHALL BE INSTALLED AT ADJACENT BUILDINGS TO MONITOR INDUCE VIBRATIONS DURING CONSTRUCTION. STOP CONSTRUCTION AND NOTIFY ENGINEER AND ARCHITECT IMMEDIATELY IF VALUES EXCEEDING THE LEVEL ALLOWED BY NYC CODE AND BUILDING CODE. CONTROL INSPECTION ENGINEER SHALL REPORT ANY UN-SAFE CONDITION TO THE DEPARTMENT OF BUILDING & ALL RELEVANT PARTIES ONCE UNSAFE CONDITION ENCOUNTERED.

4. MONITOR POINTS SHALL BE SET UP AT ADJACENT BUILDINGS PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL MONITOR ANY MOVEMENT IN BOTH VERTICAL & HORIZONTAL DIRECTIONS REGULARLY & FREQUENTLY. IN CASE ANY MOVEMENT OCCUR, STOP ALL WORKS & NOTIFY ALL PARTIES IMMEDIATELY.

5. SEE ARCH DWG FOR ALL FIREPROOFING & WATERPROOFING REQUIREMENTS & DETAILS.

6. TEMPORARY SHORE EXISTING STRUCTURES FULLY AT WHERE NEEDED PRIOR TO ANY WORK.

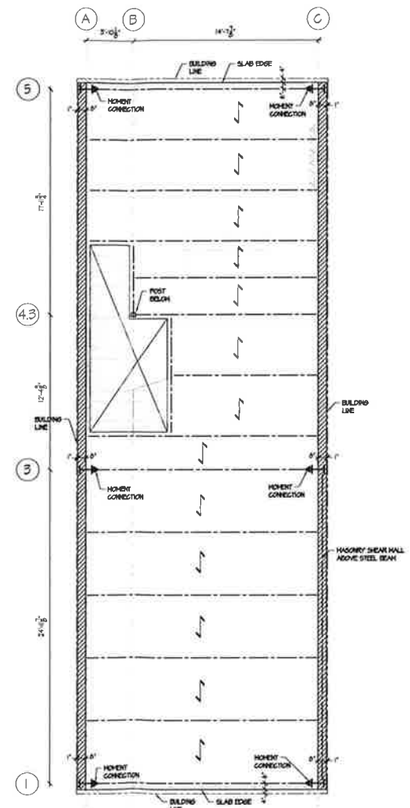
7. T.O.F.G. DENOTES TOP OF FILE CAP.



1ST FLOOR FRAMING PLAN

SCALE: 3/16" = 1'-0"

SEE ARCH DWG FOR ALL FIREPROOFING & WATERPROOFING REQUIREMENTS & DETAILS.



2ND FLOOR FRAMING PLAN

SCALE: 3/16" = 1'-0"

FOUNDATION PLAN LEGEND AND NOTES

F?? INDICATES CONCRETE ISOLATED FOOTING. SEE SCHEDULE FOR SIZE.

1. DO NOT SCALE. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION.

2. SCHEDULED MARK DESIGNATIONS ARE TYPICAL TO THE PROJECT AND MAY NOT NECESSARILY BE FOUND ON THIS PLAN.

3. UNLESS NOTED OTHERWISE ON PLANS AND/OR DETAILS, DEPTH OF FOOTING DIMENSIONS INDICATED IN THE G.S.N. ARE MINIMUMS. FOUNDATION CONTRACTOR SHALL COORDINATE WITH SOIL REPORT AND ALL TRADES TO INSURE THAT THESE MINIMUMS ARE SUFFICIENT FOR THE WORK. SEE TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS.

4. BUILDING CONCRETE SLAB ON GRADE SHALL BE AS NOTED ON PLAN. VERIFY EXACT SIZE AND LOCATION OF DEPRESSED AND/OR RAISED SLABS WITH ARCH'L DRAWINGS. FOR SIDEWALK LOCATION, SEE ARCH'L DRAWINGS. FOR ADDITIONAL INFORMATION, SEE G.S.N. AND TYPICAL DETAILS.

5. PROVIDE CONTROL JOINTS IN CONCRETE SLAB ON GRADE. SEE TYPICAL DETAIL AND GENERAL NOTE FOR REQUIREMENT, AND SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

6. PROVIDE CONTROL JOINTS IN MASONRY WALL, SEE G.S.N. AND TYPICAL DETAILS FOR REQUIREMENT, AND SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

FLOOR PLAN LEGEND AND NOTES

DENOTES MOMENT CONNECTION

W-? INDICATES LOAD BEARING MASONRY WALL. SEE MASONRY WALL SCHEDULE AND GENERAL NOTE FOR REBARS.

INDICATES LOAD BEARING MASONRY WALL. SEE MASONRY WALL SCHEDULE AND GENERAL NOTE FOR REBARS.

1. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

2. SCHEDULED MARK DESIGNATIONS ARE TYPICAL TO THE PROJECT AND MAY NOT NECESSARILY BE FOUND ON THIS PLAN.

3. PROVIDE CONTROL JOINTS IN MASONRY WALL, SEE G.S.N. AND TYPICAL DETAILS FOR REQUIREMENT, AND SEE ARCHITECURAL DRAWINGS FOR LOCATIONS.

4. FOR CLARITY, DETAILS MAY SHOW ONLY ONE SIDE OF FRAMING CONDITIONS.

5. FOR CLARITY, ALL FLOOR OPENINGS MAY NOT BE SHOWN ON FLOOR FRAMING PLAN. FOR EXACT SIZE, NUMBER AND LOCATION OF OPENINGS, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. FOR FRAMING AT OPENINGS, SEE TYPICAL DETAILS.

7. CONTRACTOR TO VERIFY AND BE RESPONSIBLE FOR VARIATIONS IN CONCRETE QUANTITY DUE TO CAMBER, CONSTRUCTION DEAD LOAD DEFLECTIONS AND/OR TOLERANCES OF STRUCTURAL STEEL ELEMENTS (i.e. BEAMS, STEEL DECK, ETC.) AND PRECAST CONCRETE ELEMENTS.

PROGRESS SET
NOT FOR CONSTRUCTION

CONSULTANTS:

MC Structural Engineering PLLC

116-55 Queens Boulevard, Suite 205, Queens, N.Y 11375
Tel: 718-263-3333 Fax: 718-263-3399

web: www.MCstructural.com
email: info@MCstructural.com

DATE	REV & DESCRIPTION

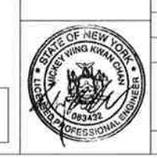
PROJECT ADDRESS

432 VAN BRUNT
BROOKLYN, NY

DRAWING CONTENT

FOUNDATION PLAN AND
1ST FLOOR FRAMING PLAN AND
2ND FLOOR FRAMING PLAN

SEAL & SIGNATURE



DATE:	11/14/14
PROJECT #:	14-041
DRAWING BY:	JR
CHECKED BY:	MC
SCALE:	AS SHOWN
DRAWING #:	S-021.00

Appendix 4

Previous Environmental Investigation Reports

Appendix 4A

Phase I Environmental Site Assessment

August 21, 2014

Mr. Pasquale Pace
Marlboro Builders, LLC/STREKTE
578 Degraw Street
PO Box 21041
Brooklyn, New York 11217
(718) 838-3250/Fax (718) 838-3252

RE: PHASE I ESA
430-434 VAN BRUNT STREET
BLOCK 603, LOT(S) 23 & 24
BROOKLYN, NEW YORK
PT PROJECT #12090-01

Dear Mr. Pace:

PT Consultants, Inc. (PT) is pleased to submit the attached Phase I Environmental Site Assessment (Phase I ESA) for your review. PT was retained to complete the Phase I ESA for the property located at 430-434 Van Brunt Street in Brooklyn, Kings County, New York. The subject property is further identified as Block 603; Lots 23 and 24. The purpose of the Phase I ESA was to identify potential recognized environmental concerns (RECs) at the property. The Phase I ESA was completed in accordance with ASTM 1527-13.

Limitations

The 50-year chain-of-title review could not be completed for all of the parcels researched. The Phase I is therefore partially limited; however, since PT was able to determine historic use from the available historic records and aerial photograph review, the incomplete 50-year chain-of-title should not impact the conclusions of this report.

Conclusions

This assessment has revealed no evidence of recognized environmental conditions in connection with the subject property except for the following:

- Historic Utilization/E-Designation (REC-1): Review of historic records available for the subject property has indicated that the site was developed for mixed residential and commercial-type operations since as early as 1886 until sometime in the 1960's, when the site was cleared of structures and utilized for contractor storage. PT also notes that the subject property was identified within the E Designation program. According to information reviewed, application for development of the property was submitted to the New York City Environmental Quality Review Board and assigned number OODME013K from the application number 020047 ZMK, based on zoning map 16a. An E designation was assigned to the site on January 30, 2002 as E-110 for Hazmat/Underground Storage Tank(s) Testing Protocol. Based on the E Designation and historic operations with the

potential for subsurface features associated with site uses to exist, PT recommends a geophysical survey and soil boring investigation be completed to determine if impacts to the subsurface are present.

- Historic Fill (REC-2): PT observed two (2) small soil piles and test pit excavations situated along the center of the northern and southern property boundaries, respectively. Various layers of fill were observed throughout the soils piles as well as along the sidewalls of the excavated areas. Based on these observations, it is likely that fill material has been brought onto the subject property. PT recommends that historic fill screening should be completed on any on-site soil which may be disturbed or transported off-site for re-use. Additionally, a Health and Safety Plan be implemented to minimize workers' contact with contaminated soil if such is found to exist on-site.

- Storage Container (REC-3): A storage container, which is utilized for the housing of building materials, compressed gas cylinders, and one (1) 55-gallon polyethylene drum, was observed within the northern corner of the subject property. The contents of the drum are unknown and at the time in which the inspection was completed, the drum was noted as having been staged on its side allowing the contents of such to spill onto the wooden floor of the storage container. PT also noted several additional areas of staining along the wooden floor of the storage container. PT recommends an additional investigation of the shipping container in order to assess the potential for hazardous substances to have been discharged through the wooden floor and onto the ground surface. PT also recommends that proper spill prevention and storage techniques are employed.

- Material Staging Areas (REC-4): Several staging areas consisting of trucks, trailers, miscellaneous building materials, solid waste debris were observed throughout the subject property during the site inspection. PT also observed a total of five (5) 5-gallon pails of mastic and hydraulic fluid situated at various locations throughout the subject property. No visual evidence of a release was noted with the exception of one (1) area of minimally soil, which was located beneath the trucks staged within the northern portion of the property. PT recommends that the surface stained area be cleaned and properly managed. In the event that the surface staining should be found to extend through to the subsurface, an additional investigation, removal and sampling should be conducted.

- Ruptured Drum (REC-5): One (1) 55-gallon steel drum was observed within the northern portion of the property. The contents of the drum are unknown. PT noted the structural integrity of the drum appeared to have been compromised, causing it to rupture and discharge its contents onto the ground surface. PT recommends an additional investigation of the drum discharge area be completed to determine if any spill related to such has impacted the subsurface. PT also recommends that proper spill prevention and storage techniques are employed.

- Potential Off-Site Sources of Contamination (REC-6): Several sites with potential sources of soil and groundwater contamination were identified in close proximity to the subject property. Identification of such sites was anticipated due to the urban setting of the subject area. Migration of contaminants from these sites to the subject property would most likely be via groundwater and/or vapor. Based on the E-Designation of the subject property and several immediate surrounding areas, PT has recommended that a soil and groundwater investigation should be completed on the site. The investigation will also assess possible indoor air quality impacts from vapor intrusion; including the potential for impacted groundwater, if identified, to volatilize into the proposed building.

PT appreciates the opportunity to be of service on this project. If you have any questions regarding this report please feel free to contact me at (856) 251-9980.

Sincerely,
PT Consultants, Inc.

Paul Moscatello

Paul Moscatello
Vice President

PHASE I ENVIRONMENTAL SITE ASSESSMENT

430-434 VAN BRUNT STREET
BLOCK 603, LOT(S) 23 & 24
BROOKLYN, NEW YORK
PT PROJECT #12090-01

PREPARED FOR:

MR. PASQUALE PACE
MARLBORO BUILDERS, LLC/STREKTE
578 DEGRAW STREET
PO BOX 21041
BROOKLYN, NEW YORK 11217
(718) 838-3250/FAX (718) 838-3252

PREPARED BY:

PT CONSULTANTS, INC.
629 CREEK ROAD
BELLMAWR, NEW JERSEY 08031
(856) 251-9980/FAX (856) 931-1849

AUGUST 2014

Table of Contents

Page

1.0 Summary 1
2.0 Introduction 2
2.1 Purpose 2
2.2 Detailed Scope of Services 2
2.3 Significant Assumptions 3
2.4 Limitations and Exceptions 4
2.5 Special Terms and Conditions 4
2.6 User Reliance 4
3.0 Site Description 6
3.1 Location and Legal Description 6
3.2 Site and Vicinity General Characteristics 6
3.3 Current Use of the Property 6
3.4 Site Features and Improvements 6
3.5 Current Uses of the Adjoining Properties 7
4.0 User Provided Information 8
4.1 Title Records 8
4.2 Environmental Liens or Activity and Use Limitations 8
4.3 Specialized Knowledge 8
4.4 Valuation Reduction for Environmental Issues 8
4.5 Commonly Known or Reasonably Ascertainable Information 9
4.6 Owner, Property Manager, and Occupant Information 9
4.7 Reason for Performing Phase I ESA 9
5.0 Records Review 10
5.1 Standard Environmental Record Sources 10
5.1.1 Federal Database 10
5.1.2 State Database 13
5.1.3 Orphan Site Review 21
5.2 NYC BIS Search 21
5.3 Physical Setting Sources 22
5.4 Historical Use Information on the Property 22
5.4.1 Flood Plain Map Review 23

Table of Contents (continued)

5.4.2 Wetlands Map Review 23
5.4.3 Radon Map Review 23
5.4.4 Chain of Title 24
5.4.5 Aerial Photograph Review 25
5.4.6 Sanborn Map Review 26
5.4.7 Topographic Map Review 27
5.4.8 City Directory Review 28
5.4.9 The Department Geographic Information System 29
5.5 Historical Use Information on Adjoining Properties 29
6.0 Site Reconnaissance 30
6.1 Methodology and Limiting Conditions 30
6.2 General Site Settings 30
6.3 Observations 30
7.0 Interviews 32
7.1 Interview with Owner or Owner Representative 32
7.2 Interview with Site Manager 32
7.3 Interviews with Others 32
8.0 Findings and Opinions 33
9.0 Conclusions 36
10.0 Deviations 37
11.0 Additional Services/Non-Scope Considerations 38
12.0 References 39
13.0 Qualifications 40

Figures

Figure 1 Site Location Map

Appendices

Appendix 1 PT Proposal
Appendix 2 Qualifications
Appendix 3 Tax Map
Appendix 4 User Questionnaire
Appendix 5 EDR Report
Appendix 6 Local Zoning Records

Table of Contents (continued)

Appendix 7 Current Deed
Appendix 8 Aerial Photographs
Appendix 9 Sanborn Maps
Appendix 10 Historical Topographic Maps
Appendix 11 City Directory Search
Appendix 12 Environmental Database GIS Map
Appendix 13 Phase I ESA Checklist
Appendix 14 Photo Documentation

1.0 Summary

PT Consultants, Inc. (PT) was retained to complete a Phase I Environmental Site Assessment for the property located at 430-434 Van Brunt Street in Brooklyn, Kings County, New York (herein referred to as the "subject property" or "property"). A copy of the proposal engaging PT to complete the work is included as **Appendix 1**. A site location map is provided as **Figure 1**. The purpose of the Phase I ESA was to identify potential recognized environmental concerns (RECs) at the property. The Phase I ESA was completed in accordance with ASTM 1527-13. The qualifications of the personnel completing the work are included as **Appendix 2**.

2.0 Introduction

2.1 Purpose

PT conducted this Phase I ESA at the request of Marlboro Builders, LLC. The purpose of this Phase I ESA is to identify, to the extent feasible pursuant to this process, RECs in connection with the subject property.

RECs are defined by ASTM International as "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment."

The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

2.2 Detailed Scope of Services

PT performed this Phase I ESA to assess the potential for RECs at the subject property. PT performed this Phase I ESA in general conformance with the ASTM International *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E 1527-13.* The Phase I ESA included, but is not limited to the following activities:

- Review of selected historical aerial photographs.

- Research and review of available background information (provided to us and from in-house data base systems) regarding the subject property in order to identify areas and/or items of potential concern relative to contamination or storage of hazardous waste. We coordinated a computer search of various pertinent databases (including Sanborn maps).

- Completion of a title search.

- Contacting state and local agencies regarding the availability of files for the subject site and review of the files if deemed appropriate and practicable.

- A site visit to perform a visual reconnaissance to identify evidence of RECs. The reconnaissance included readily visible and accessible areas of the site only. The site reconnaissance also included observing the current uses of adjoining properties to the extent practicable without entering the adjoining properties.

- Interviews with key site personnel to obtain information about the uses and physical characteristics of the subject property and potential environmental risks associated with the subject property.

The findings and conclusions discussed in this report are based on the historic data readily available to our project team and the specific conditions observed (and documented) during our site inspection. No attempt has been made to comment on conditions beyond those documented in our Phase I ESA report and certification of the property is not made or implied in this regard.

2.3 Significant Assumptions

PT assumes that all information provided to us either by the client, the client's representatives, persons identified as being knowledgeable about the subject property

history and/or operations, the environmental database search subcontractor, regulatory agencies or other involved parties was truthful, complete, accurate and provided in good faith. PT relied upon the documents and information provided; we assume no responsibility or liability for their accuracy or completeness. Further, it is possible that due to site-specific limitations certain RECs might not have been visible. PT provides no guarantee that this Phase I ESA identified all RECs associated with the subject property.

2.4 Limitations and Exceptions

The RECs identified in this Phase I ESA report are limited to those PT identified in the records reviews, site reconnaissance, and interviews that are documented within. This Phase I ESA did not include an inspection of subsurface conditions, or any subsurface testing or sampling (e.g., air, water, soil and building materials).

The 50-year chain-of-title review could not be completed for all of the parcels researched. The Phase I is therefore partially limited; however, since PT was able to determine historic use from the available historic records and aerial photograph review, the incomplete 50-year chain-of-title should not impact the conclusions of this report.

2.5 Special Terms and Conditions

No special terms of conditions were included as part of this assessment.

2.6 User Reliance

All reports, plans, specifications, electronic data, field data, notes and other documents ("Work Product") prepared by PT pursuant to this Agreement are intended for the exclusive use and reliance by the Client. PT cannot and will not be liable for unauthorized reliance by any other third party.

Marlboro Builders, LLC understands and agrees that the information contained in this report describes facts and PT's opinions regarding conditions related to the property as of the date of this report and does not purport to describe facts or conditions subsequent to the date of the report. Please also note that the scope of work performed was negotiated by PT and Marlboro Builders, LLC is noted in the contract and this report.

3.0 Site Description

3.1 Location and Legal Description

The subject property is located at 430-434 Van Brunt Street in Brooklyn, Kings County, New York. A site location map is provided as **Figure 1**. The subject property is further identified as Block 603; Lots 23 and 24. A copy of the tax lot map is provided as **Appendix 3**.

3.2 Site and Vicinity General Characteristics

The site is comprised of two (2) lots, which total approximately 5,850 square feet in size. The site is currently undeveloped and is utilized as a contractor storage yard. The subject property is situated within an urban area with mixed residential, commercial, and industrial operations located within the surrounding area.

3.3 Current Use of the Property

The site is currently undeveloped and is utilized as a contractor storage yard.

Review of historic records available for the subject property has indicated that the site was developed for mixed residential and commercial-type operations since as early as 1886 until sometime in the 1960's, when the site was cleared of structures and utilized for contractor storage. Site use has remained relatively unchanged through to current day.

3.4 Site Features and Improvements

The site is comprised of two (2) lots, which total approximately 5,850 square feet in size. The site is currently undeveloped and is utilized as a contractor storage yard. There are no structures present on the subject property.

3.5 Current Uses of the Adjoining Properties

The surrounding land use is as follows:

North: The property is bordered directly north by residential properties followed by Van Dyke Street.

South: The property is bordered to the south by Van Brunt Street followed by residential and commercial properties.

East: The property is bordered to the east by residential and commercial properties followed by the intersection of Van Brunt Street and Van Dyke Street.

West: The property is bordered to the west by residential properties followed by Beard Street.

4.0 User Provided Information

ASTM Standard 1527-13 includes additional responsibility and requirements of the client or "User" of the report to provide the environmental professional with adequate site information. Copies of the completed questionnaire and any additional pertinent information provided by the report User are provided in **Appendix 4.** The following paragraphs present a summary of pertinent information obtained following review of available information.

4.1 Title Records

The User did not provide to PT any recorded land title records pertaining to the subject property.

4.2 Environmental Liens or Activity and Use Limitations

The User was unaware of any environmental records and/or activity and use limitations that are associated with the subject property.

4.3 Specialized Knowledge

The User indicated that the property has historically consisted of vacant land, which was utilized as a contractor storage yard.

4.4 Valuation Reduction for Environmental Issues

PT was not provided with an appraisal for the subject property. However, the User indicated that the purchase price of the property accurately reflected fair market value as no environmental issues were identified by the User that could result in property value reduction.

4.5 Commonly Known or Reasonably Ascertainable Information

The User was not aware of any environmental cleanups that may have taken place at the subject property.

4.6 Owner, Property Manager, and Occupant Information

The User did not provide to PT any information regarding the owner, property manager, or occupant.

4.7 Reason for Performing Phase I ESA

This Phase I ESA was performed to identify existing environmental concerns and liabilities associated with the property.

5.0 Records Review

5.1 Standard Environmental Record Sources

As part of the Phase I ESA, PT completed an EDR Database Search for the subject property. A copy of the EDR Database Search is included as **Appendix 5**. The EDR Database Search is a computerized search which reviews Federal and State databases, as well as, several supplemental Federal and State databases. The results of the EDR Database Search are detailed in the following sections.

5.1.1 Federal Database

CERCLIS: *Comprehensive Environmental Response, Compensation, and Liability Information System*

The subject property was not identified in the CERCLIS database. One (1) CERLCIS database site was identified in the ASTM search radius. The Brookhattan Smelting and Refining site is located at a minimum distance that is greater than 1/8 of a mile from the subject property and according to the EDR report, did not qualify as a potential NPL. Based on the proximity and status listing, the site would not be expected to impact the subject property.

RCRA-SQG: *Resource Conservation and Recovery Act Small Quantity Generator*

The subject property was not listed in the RCRA-SQG database. One (1) RCRA-SQG database site was identified within the ASTM search radius. The NYC Dept of ED –Public School site is located at a minimum distance that is greater than 1/8 of a mile from the subject property and with no violations identified. Based on such, the site would not be expected to impact the subject property.

RCRA-CESQG: *Resource Conservation and Recovery Act Conditionally Exempt Small Quantity Generator*

The subject property was not listed in the RCRA-CESQG database. Three (3) RCRA-CESQG sites were identified within the ASTM search radius. Two (2) of the sites were identified within 1/8 of a mile to the subject property.

Con-Edison Manhole #43857 is located at Coffey Street and Van Brunt Street, approximately 396 feet northeast of the subject property and at a higher topographic elevation. According to the EDR report, there were no violations identified for this database listing. Based on no reported violations, the site would not be expected to impact the subject property.

Con-Edison Manhole #43655 is located at Van Brunt Street and Dikeman Street SW, approximately 659 feet northeast of the subject property and at a higher topographic elevation. According to the EDR report, there were no violations identified for this database listing. Based on no reported violations, the site would not be expected to impact the subject property.

The remaining site is located a minimum distance that is greater than 1/8 of a mile from the subject property and at a lower topographic elevation. Based on the proximity and topography relative to the subject property, the site is not believed to be of further concern at this time.

RCRA-NonGen: *Resource Conservation and Recovery Act Non Generator*

The subject property was not listed in the RCRA-NonGen database. Seventeen (17) RCRA-NonGen database sites were identified within the ASTM search radius. As non generators of hazardous waste, these sites are not expected to impact the subject property.

FUDS: *Formerly Used Defense Sites*

The subject property was not identified in the FUDS database. One (1) FUDS database site was identified in the ASTM search radius. The ATL Basin Iron Works site is located adjacent to Conover Street and Below Van Dyke Street, approximately 388 feet to the west-northwest of the subject property and at a higher topographic elevation. According to the EDR report, the site was historically utilized by the U.S. Navy as a shipyard, but is now utilized for vehicle storage. The EDR report also states that there are a number of abandoned tanks associated with the property. No additional pertinent information was provided. Migration of contaminants from this site to the subject property would most likely be via groundwater and/or vapor. However, groundwater within the vicinity of the subject property is presumed to travel west-southwest towards the Hudson River. Based on the presumed groundwater flow direction and the geographical position of the site relative to the subject property, the site would not be expected to impact the subject property.

ERNS: *Emergency Response Notification System*

The EDR report identified the subject property as existing within the ERNS database under 430 Van Brunt Street. According to information obtained from a supplemental EDR Site Detail report, an

incident related to a tank truck fuel tank was reported on September 4, 1996. No other pertinent information was provided by the EDR or Site Detail report. Additional information regarding the incident is provided in the SPILLS database, below.

The following Federal databases were also searched; however, the subject property was not listed nor were any additional sites listed within the ASTM search radius: NPL, Proposed Delisted NPL, NPL LIENS, CERC-NFRAP, CORRACTS, RCRA-TSDF, RCRA-LQG, US ENG CONTROLS, US INST CONTROLS, and US BROWNFIELDS.

5.1.2 State Database

SHWS: *State Hazardous Waste Sites*

The subject property was not identified in the SHWS database. Five (5) SHWS sites were identified within the ASTM search radius. All of the database listings have been eliminated from consideration as a potential source of environmental impact based on their proximity, lower topographic elevation, and/or hydraulically down-gradient position relative to the subject property.

DEL SHWS: *Delisted State Hazardous Waste Sites*

The subject property was not identified in the DEL SHWS database. One (1) DEL SHWS site was identified within the ASTM search radius. The Carroll Gardens site is located at a minimum distance that is greater than 1/2 of a mile from the subject property. Based on the delisted status and proximity, the site would not be expected to impact the subject property.

SWF/LF: *Solid Waste Facility/Landfill Sites*

The subject property was not identified in the SWF/LF database. Five (5) SWF/LF sites were identified within the ASTM search radius. All of the database listings have been eliminated from consideration as a potential source of environmental impact based on their proximity, lower topographic elevation, and/or hydraulically down-gradient position relative to the subject property.

LTANKS: *Leaking Storage Tank Incident Reports*

The subject property was not identified in the LTANKS database. Eleven (11) LTANKS sites were identified within the ASTM search radius. All of the database listings have been eliminated from consideration as a potential source of environmental impact based on their "closed" status listing, proximity, lower topographic elevation, and/or hydraulically down-gradient position relative to the subject property.

UST: *Underground Storage Tanks*

The subject property was not identified in the UST database. Seven (7) UST database sites were identified within the ASTM search radius. One (1) of the sites was identified within 1/8 of a mile to the subject property.

Nechanah & Rafael, LLC is located at 175 Beard Street, approximately 204 feet west of the subject property and at a higher topographic elevation. According to the EDR report, one (1) 2,000 gallon #2 fuel oil UST was registered to the property and listed as having been closed in place. No additional pertinent information was provided. Migration of contaminants from this site to the subject

property would most likely be via groundwater and/or vapor. However, groundwater within the vicinity of the subject property is presumed to travel west-southwest towards the Hudson River. Based on the presumed groundwater flow direction and the geographical position of the site relative to the subject property, the site would not be expected to impact the subject property.

The remaining UST database sites identified have been eliminated from consideration as a potential source of environmental impact based on the tank status, proximity, lower topographic elevation, and/or hydraulically down-gradient position relative to the subject property.

AST: *Aboveground Storage Tanks*

The subject property was not identified in the AST database. Six (6) AST database sites were identified within the ASTM search radius. Two (2) of the sites were identified within 1/8 of a mile to the subject property.

Ahava Food Corp is located at 118 Beard Street, approximately 388 feet south-southeast of the subject property and at a lower topographic elevation. According to the EDR report, two (2) 1,000 gallon diesel fuel ASTs are registered to the property and listed as being in-use. Equipment records indicate that the tanks are situated within a secondary containment vault with an overfill detection/prevention system in place. Based on the containment systems, proximity, and topographic elevation relative to the subject property, the site would not be expected to impact the subject property.

Cornell Paper Box Inc is located at 180 Van Dyke Street, approximately 627 feet northwest of the subject property and at a lower topographic elevation. According to the EDR report, one (1) 5,000 gallon #2 fuel oil AST was registered to the property and listed as having been removed. Based on the status, proximity, and topographic elevation relative to the subject property, the site would not be expected to impact the subject property.

The remaining AST database sites identified have been eliminated from consideration as a potential source of environmental impact based on the tank status, proximity, lower topographic elevation, and/or hydraulically down-gradient position relative to the subject property.

CBS AST: *Chemical Bulk Storage –Aboveground Storage Tank Sites*

The subject property was not identified in the CBS AST database. Two (2) CBS AST sites were identified within the ASTM search radius; however, these database listings have been eliminated from consideration as a potential source of environmental impact based on their proximity and hydraulically down-gradient position relative to the subject property.

CBS: *Chemical Bulk Storage Sites*

The subject property was not identified in the CBS database. Two (2) CBS sites were identified within the ASTM search radius; however, these database listings have been eliminated from consideration as a potential source of environmental impact based on their proximity and hydraulically down-gradient position relative to the subject property.

HIST UST: *Historic Underground Storage Tanks*

The subject property was not identified in the HIST UST database. Two (2) HIST UST database sites were identified within the ASTM search radius; however, these database listings have been eliminated from consideration as a potential source of environmental impact based on the tank status, proximity, lower topographic elevation, and/or hydraulically down-gradient position relative to the subject property.

Inst Controls: *Classification Exception Area Sites*

The subject property was not listed on the Inst Controls database. One (1) Inst Controls database site was listed in the search radius. The U.S. Dredging Shipyard Site property is located at a minimum distance that is greater than 1/4 of a mile from the subject property as well as at both a lower topographic and hydraulically down-gradient position relative to the subject property. Based on such, the site would not be expected to impact the subject property.

Eng Controls: *Declaration of Environmental Restriction/Deed Notice Sites*

The subject property was not listed on the Eng Controls database. One (1) Eng Controls database site was listed in the search radius. The U.S. Dredging Shipyard Site property is located at a minimum distance that is greater than 1/4 of a mile from the subject property as well as at both a lower topographic and hydraulically down-gradient position relative to the subject property. Based on such, the site would not be expected to impact the subject property.

VCP: *Voluntary Cleanup Program*

The subject property was not identified in the VCP database. One (1) VCP database site was listed in the search radius. The U.S.

Dredging Shipyard Site property is located at a minimum distance that is greater than 1/4 of a mile from the subject property as well as at both a lower topographic and hydraulically down-gradient position relative to the subject property. Based on such, the site would not be expected to impact the subject property.

Brownfields: *Current or former commercial or industrial sites listed as vacant or underutilized*

The subject property was not identified in the Brownfields database. One (1) Brownfields database site was listed in the search radius. The U.S. Dredging Shipyard Site property is located at a minimum distance that is greater than 1/4 of a mile from the subject property as well as at both a lower topographic and hydraulically down-gradient position relative to the subject property. Based on such, the site would not be expected to impact the subject property.

SWRCY: *Registered Recycling Facility List*

The subject property was not identified in the SWRCY database. One (1) SWRCY database site was listed in the search radius. The Ikea Red Hook site is located at a minimum distance that is greater than 1/4 of a mile from the subject property as well as at both a lower topographic and hydraulically down-gradient position relative to the subject property. Based on such, the site would not be expected to impact the subject property.

NY SPILLS: *Records of Emergency Release Reports*

The EDR report identified "Roadway" under the 430 Van Brunt Street address within the NY SPILLS database. According to the EDR, an incident was reported on September 4, 1996 after a commercial vehicle

spilled an unknown amount of motor oil into the street. The incident was subsequently issued spill number 9607095. The EDR also indicates that both the DEC and Responsible party responded to the scene of the incident and that the proper corrective actions were taken. The case was listed as having been closed as effective September 5, 1996. Based on the closed case status and the incident having actually occurred in the street and not within the physical boundaries of the subject property, PT does not recommend any additional investigation into this database listing at this time.

Forty (40) additional NY SPILLS database sites were identified within the ASTM search radius. All of the reported incidents have been listed with a closed status or indicate that a corrective action had occurred. Based on the status listing, these sites are not believed to be of further concern at this time.

MANIFEST: *Hazardous Waste Manifest Information*

The subject property was not identified in the MANIFEST database. Fourteen (14) Manifest database sites were identified within the ASTM search radius. Presence on the MANIFEST database indicates that these facilities had generated some form of hazardous waste materials which were transported to a TSD Facility and does not indicate an environmental issue is present. Based on this information, PT does not recommend any further investigation into these entries.

E Designation: *Sites designated for potential hazardous material contamination, air and/or noise impacts*

The EDR report identified the subject property as "Lot 23, Tax Block

603" and "Lot 24, Tax Block 603" within the E Designation database. According to information reviewed, application for development of the property was submitted to the New York City Environmental Quality Review Board and assigned number OODME013K from the application number 020047 ZMK, based on zoning map 16a. An E designation was assigned to the site on January 30, 2002 as E-110 for Underground Storage Tank(s) Testing Protocol. Based on the description provided in the E Designation a subsurface investigation is warranted in order to determine if impacts to the site soils and/or groundwater are present.

Three (3) additional E Designation database sites were identified within the ASTM search radius. All of the sites are situated within 1/8 of a mile from the subject property; however, no additional pertinent information is provided regarding these facilities from EDR. Based on the proximity and designation status, theses sites may have the potential to impact the subject property.

Hist. Auto Stations:

EDR potential Historical Automobile Station database listings

The subject property was not identified in the Historical Auto Stations database. Eleven (11) Historical Auto Station sites were identified within the search radius. Ten (10) of the database sites identified have been eliminated from consideration as a potential source of environmental impact based on proximity and/or hydraulically down-gradient position relative to the subject property. G&F Auto Collision is located at 147 Van Dyke Street, approximately 151 feet north-northeast of the subject property and at a higher topographic elevation. The site is listed as an auto service

station between 1999 and 2000 in the database report. Due to the proximity and description of site operations, potential impacts to the subject property cannot be ruled out.

The following State and EDR Proprietary databases were also searched; however, the subject property was not listed nor were any additional sites listed within the ASTM search radius: HSCA, LAST, ODI, CONSENT, PADS, and Hist. Cleaners, DRYCLEANERS.

5.1.3 Orphan Site Review

The EDR report generates a list of sites called orphan sites for which EDR does not have enough information to map the location. PT reviewed the list of orphan sites. None of the orphan sites were recognized as being the subject property, or adjacent properties.

5.2 NYC BIS Search

PT conducted a review of any/all building records held for the subject property with the New York City Department of Buildings, Building Information System (BIS). The NYC BIS system maintains an online catalog of building records which include recorded complaints, violations, actions, applications and inspections. The search was completed under Block 603; Lots 23 and 24. Review of available records has identified the following:

- Review of the Property Profile Overview indicates that the Block 603; Lot 23 portions of the property consists of vacant land with a "HAZMAT" Environmental restriction.

- PT reviewed documents pertinent to action items and complaints, which were associated with the 430 Van Brunt Street address (BIN # 3846916). Review of

the action item summary identified a building demolition permit dated April 1932. The action item summary also identified permits for the construction of a new building between February 1950 and January 1952 with alterations being completed in August 1953. No other pertinent information related to the former site structures was obtained.

PT also reviewed several complaints and violations dated between 1997 and 2001 regarding the improper use of the site as a storage yard. A complaint was also reviewed related to the un-permitted construction of a car-port on the property.

- No records were identified for the Block 603; Lot 24 portions of the property.

Copies of the records reviewed are included as **Appendix 6.**

5.3 Physical Setting Sources

According to the Topographic Map, included with the EDR, the subject property is approximately 8 feet above mean sea level. Based on the Geologic Map of New York, the site is underlain by glacial and alluvial deposits of which the underlying bedrock geology is unknown. There are no surface water bodies situated within the subject property. The nearest water body is the Erie Basin of the Upper New York Bay, which is located approximately 315 feet to the south of the subject property. Groundwater within the vicinity of the subject property is presumed to travel south-southwest towards the Upper New York Bay.

5.4 Historical Use Information on the Property

According to the ASTM E 1527-13 standard, all obvious uses of the subject property must be identified from the present back to either the subject property's first developed use or back to 1940, whichever is earlier. In order to fulfill this requirement, historical

information provided by and obtained from the sources identified in **Sections 5.4.1 through 5.4.7** was reviewed to develop a history of the previous uses of the subject property and surrounding area in order to help identify the likelihood that past uses have led to recognized environmental conditions in connection with the subject property. The results of these document reviews are detailed in the following sections.

5.4.1 Flood Plain Map Review

As part of the Phase I ESA scope of work, PT reviewed the flood plain map for the property. A copy of the flood plain map is included in the EDR report included as **Appendix 5**. The results of the review were as follows:

- Based on a review of the FEMA flood zone map, the subject property is located within the 100 flood plain as mapped by FEMA. Special flood insurance may be required for the subject property.

5.4.2 Wetlands Map Review

As part of the Phase I ESA scope of work, PT reviewed the wetlands map for the property. A copy of the wetlands map is included in the EDR included as **Appendix 5**. The results of the review were as follows:

- Based on a review of the wetlands map, the subject property does not lie within Federal or State regulated wetlands.

5.4.3 Radon Map Review

As part of the Phase I ESA scope of work, PT reviewed the radon data for the property. A copy of the radon data is included in the EDR report, which is included as **Appendix 5**. The results of the review were as follows:

- Radon potential for the subject property is listed as Zone 3, with the average radon concentrations that are less than 2pCi/L. Therefore, radon is not believed to be of further concern.

5.4.4 Chain of Title

Block 603; Lot 23			
Owner	**From**	**To**	**Book Reel/Page**
Marlboro Builders, LLC	4/17/2014	Current	2014000160710
Pat Pace	5/4/1994	4/17/2014	3396/416
James Calicchio	3/23/1993	5/4/1994	3032/282
Lucy Calicchio	6/30/1990	3/23/1993	2684/290
Anthony Calicchio (Vincent Calicchio)	4/3/1973	6/30/1990	623/1900
Katherine Banks	--	4/3/1973	--/--
City of New York	6/23/1966	--	169/291
Block 603; Lot 24			
Owner	**From**	**To**	**Book Reel/Page**
Marlboro Builders, LLC	10/22/2013	Current	2013000512320
Pat Pace	5/4/1994	4/17/2014	3396/416
James Calicchio	3/23/1993	5/4/1994	3032/282
Lucy Calicchio	6/30/1990	3/23/1993	2684/290
Anthony Calicchio, et al (Vincent Calicchio)	9/5/1980	6/30/1990	1183/1
Dorothy Strype	7/15/1973	9/5/1980	647/65
Josephine Izzo	12/21/1972	7/15/1973	603/358
Cage Realty Corp	1/18/1971	12/21/1972	459/649
City of New York	4/9/1968	1/18/1971	693/208
Roy Goodman	--	4/9/1968	--/--

No environmental liens were apparent on the reviewed deeds. Copies of the deeds are included as **Appendix 7**.

5.4.5 Aerial Photograph Review

PT reviewed aerial photographs obtained from EDR for the years 1924, 1940, 1943, 1954, 1966, 1975, 1978, 1984, 1995, 2006, 2008, 2009, and 2011. Copies of historical aerial photographs obtained from EDR are included as **Appendix 8**. The results of the review are as follows:

1924-1954 Aerials: The subject property appears as developed land in this photograph; however, the site's use is not clearly discernable in this photograph. The surrounding areas appear to be fully developed with presumed industrial, commercial, and residential properties within the immediate vicinity. The property is bordered to the south by Van Brunt Street. Van Dyke Street and Beard Street are also present to the north and west of the property, respectively. Upper New York Bay as well as several shipyards/shipping terminals are present on lands located to the north, west and south.

1966-2011 Aerials: The subject property no longer appears to be improved with structures, and now appears to primarily consist of undeveloped land. Minor changes were noted throughout the surrounding areas including demolition and re-development of several properties; however, these changes are not expected to impact the subject property.

5.4.6 Sanborn Map Review

PT reviewed Sanborn Maps obtained from EDR for the years 1886, 1904, 1915, 1921, 1922, 1928, 1938, 1950, 1969, 1977, 1979, 1980, 1981, 1982, 1986, 1987, 1988, 1991, 1992, 1993, 1995, 1996, 2001, 2002, 2003, 2004, 2005, 2006, and 2007. Copies of Sanborn Maps obtained from EDR are included as **Appendix 9**. The results of the review are as follows:

1886 Map: The 430 Van Brunt Street parcel is developed with a residential dwelling and the 432-434 Van Brunt Street parcel is developed with a structure, which is identified as "Junk". Residential structures are present to the north followed by Van Dyke Street. Several storefront structures border the property to the east followed by the intersection of Van Brunt Street and Van Dyke Street. The property is bordered to the south by Van Brunt Street and to the west by storefronts, dwellings, and Beard Street. The subject property is situated within an urban setting with industrial, commercial, and residential properties within the immediate vicinity.

1904 Map: No significant changes to the subject property or surrounding areas are observed.

1915 Map: Use of the structure situated within the 432-434 Van Brunt Street parcel has changed from "Junk" to "Rope Dealer". No significant changes to the remaining portions of the subject property or surrounding areas are observed.

1921 Map: The subject property is not depicted in this map.

1922 Map: The subject property is not depicted in this map.

1928 Map: The subject property is not depicted in this map.

1938 Map: The residential dwelling previously noted within the 430 Van Brunt Street parcel is no longer present. The lot now appears as vacant land. Use of the structure situated within the 432-434 Van Brunt Street parcel has changed from "Rope Dealer" to "Thomas Kent Stevedore".

1950 Map: No significant changes to the subject property are observed. However, use of the structure situated within the 432-434 Van Brunt Street parcel has changed from "Thomas Kent Stevedore" to "Stevedore".

1969 Map: The structure previously noted within the 432-434 Van Brunt Street parcel is no longer present. Both parcels which comprise the subject property now appear as vacant land.

1977-2007 Maps: No significant changes to the subject property are observed. Minor changes were noted throughout the surrounding areas including utilization changes of several properties; however, these changes are not expected to impact the subject property.

5.4.7 Topographic Map Review

PT reviewed historical topographic maps for the subject area from EDR for the years 1891, 1900, 1905, 1925, 1947, 1955, 1967, and 1981. Copies of historical topographic maps obtained from EDR are included as **Appendix 10**. The results of the review are as follows:

1891-1925 Maps: Due to the scale of these historical topographic maps, PT was unable to adequately discern or record specific features for the site or the immediate surrounding areas. Upper New York Bay as well as several

shipyards/shipping terminals border the subject area to the north, west and south.

1947 Map: The subject property and immediate surrounding areas are depicted as developed land; however, the subject property's use is not clearly discernable due to the scale of the historical topographic map and the urban setting of the subject area. The property is bordered to the south by Van Brunt Street. Van Dyke Street and Beard Street are also present to the north and west of the property, respectively.

1955-1981 Maps: The subject property and immediate surrounding areas are depicted as an urban area; however, PT was unable to adequately discern or record specific features or uses for the site.

5.4.8 City Directory Review

PT requested a search of City Directories for the subject property and adjacent properties from EDR. According to EDR's City Directory Search Report, business directories including city, cross reference and telephone directories were reviewed, if available, at approximate five (5) year intervals for the years spanning 1928 through 2013. A copy of the city directory report obtained from EDR is included as **Appendix 11**. The results of the review are as follows:

- William Banks Rigging Company was listed at 434 Van Brunt Street from 1940 through 1960.
- Red Hook Rigging Company was listed at 434 Van Brunt Street in 1945.
- Maritime Testing Corp was listed at 434 Van Brunt Street in 1960.

5.4.9 The Department Geographic Information System

PT completed a computerized search of the New York City Searchable Property Environmental E-Database (SPEED) Geographic Information System (GIS) database. The search was completed under Block 603; Lots 23 and 24. The search included E-Designation, Brownfields, VCP, Hazardous Waste, Solid Waste, Chemical Bulk Storage (CBS), Petroleum Bulk Storage (PBS), Major Oil Storage Facilities (MOSF), RCRA, and NPL locations. The search revealed the following information:

- An E designation was assigned to the subject property as E-110 Hazmat for Underground Storage Tank(s) Testing Protocol.

- No active releases are documented on or adjacent to the property.

A copy of the GIS database search results is included as **Appendix 12**.

5.5 Historical Use Information on Adjoining Properties

Historical use information regarding adjoining properties is discussed in a general context in **Section 5.4**, above.

6.0 Site Reconnaissance

PT conducted the site reconnaissance for this Phase I ESA on July 24, 2014. The Phase I ESA was completed in accordance with ASTM 1527-13. A copy of the site inspection checklist is included as **Appendix 13**. Photo documentation of the site inspection is included as **Appendix 14**. The following subsections provide a summary of the on-site conditions that are pertinent to this investigation.

6.1 Methodology and Limiting Conditions

PT was accompanied by the current property owner, Mr. Pat Pace, during the site inspection. There were no limiting conditions encountered during the site inspection.

6.2 General Site Settings

The site is comprised of two (2) lots, which total approximately 5,850 square feet in size. The site is currently undeveloped and is utilized as a contractor storage yard. The subject property is situated within an urban area with mixed residential, industrial, and commercial operations located within the surrounding area.

6.3 Observations

- PT observed two (2) small soil piles and test pit excavations situated along the center of the northern and southern property boundaries, respectively. Various layers of fill were observed throughout the soils piles as well as along the sidewalls of the excavated areas. Based on these observations, it is likely that fill material has been brought onto the subject property.

- A storage container, which is utilized for the housing of building materials, compressed gas cylinders, and one (1) 55-gallon polyethylene drum, was observed within the northern corner of the subject property. The contents of the drum are unknown and at the time in which the inspection was completed, the drum was noted as having been staged on its side allowing the contents of such to spill onto the wooden floor of the storage container. PT also noted several additional areas of staining along the wooden floor of the storage container.

- Several staging areas consisting of trucks, trailers, miscellaneous building materials, solid waste debris were observed throughout the subject property during the site inspection. PT also observed a total of five (5) 5-gallon pails of mastic and hydraulic fluid situated at various locations throughout the subject property. No visual evidence of a release was noted with the exception of one (1) area of minimally soil, which was located beneath the trucks staged within the northern portion of the property.

- One (1) 55-gallon steel drum was observed within the northern portion of the property. The contents of the drum are unknown. PT noted the structural integrity of the drum appeared to have been compromised, causing it to rupture and discharge its contents onto the ground surface.

7.0 Interviews

7.1 Interview with Owner or Owner Representative

PT interviewed Mr. Pat Pace of Marlboro Builders, the current property owner. Mr. Pace indicated that the property is currently utilized as a contractor storage yard and had previously been utilized as such prior to acquiring the property. Mr. Pace was not aware of any environmental issues or investigations related to the subject property nor was he aware of the current or former presence of any USTs or ASTs which would have been associated with the property. Mr. Pace indicated that the property is proposed to be redeveloped with a three-story residential structure.

7.2 Interview with Site Manager

Not Applicable

7.3 Interviews with Others

Not Applicable

8.0 Findings and Opinions

PT was retained to complete the Phase I ESA for the property located at 430-434 Van Brunt Street in Brooklyn, Kings County, New York. The subject property is further identified as Block 603; Lots 23 and 24. The purpose of the Phase I ESA was to identify potential recognized environmental concerns (RECs) at the property. The Phase I ESA was completed in accordance with ASTM 1527-13. The following paragraphs present a summary findings including suspected or identified RECs, historic RECs and de minimus conditions.

- Review of historic records available for the subject property has indicated that the site was developed for mixed residential and commercial-type operations since as early as 1886 until sometime in the 1960's, when the site was cleared of structures and utilized for contractor storage. PT also notes that the subject property was identified within the E Designation program. According to information reviewed, application for development of the property was submitted to the New York City Environmental Quality Review Board and assigned number OODME013K from the application number 020047 ZMK, based on zoning map 16a. An E designation was assigned to the site on January 30, 2002 as E-110 for Hazmat/Underground Storage Tank(s) Testing Protocol. Based on the E Designation and historic operations with the potential for subsurface features associated with site uses to exist, PT recommends a geophysical survey and soil boring investigation be completed to determine if impacts to the subsurface are present.

- PT observed two (2) small soil piles and test pit excavations situated along the center of the northern and southern property boundaries, respectively. Various layers of fill were observed throughout the soils piles as well as along the sidewalls of the excavated areas. Based on these observations, it is likely that fill material has been brought onto the subject property. PT recommends that historic fill screening should be completed on any on-site soil which may be disturbed or transported off-site for re-use. Additionally, a Health and Safety Plan be implemented to minimize workers' contact with contaminated soil if such is found to exist on-site.

- A storage container, which is utilized for the housing of building materials, compressed gas cylinders, and one (1) 55-gallon polyethylene drum, was observed within the northern corner of the subject property. The contents of the drum are unknown and at the time in which the inspection was completed, the drum was noted as having been staged on its side allowing the contents of such to spill onto the wooden floor of the storage container. PT also noted several additional areas of staining along the wooden floor of the storage container. PT recommends an additional investigation of the shipping container in order to assess the potential for hazardous substances to have been discharged through the wooden floor and onto the ground surface. PT also recommends that proper spill prevention and storage techniques are employed.

- Several staging areas consisting of trucks, trailers, miscellaneous building materials, solid waste debris were observed throughout the subject property during the site inspection. PT also observed a total of five (5) 5-gallon pails of mastic and hydraulic fluid situated at various locations throughout the subject property. No visual evidence of a release was noted with the exception of one (1) area of minimally soil, which was located beneath the trucks staged within the northern portion of the property. PT recommends that the surface stained area be cleaned and properly managed. In the event that the surface staining should be found to extend through to the subsurface, an additional investigation, removal and sampling should be conducted.

- One (1) 55-gallon steel drum was observed within the northern portion of the property. The contents of the drum are unknown. PT noted the structural integrity of the drum appeared to have been compromised, causing it to rupture and discharge its contents onto the ground surface. PT recommends an additional investigation of the drum discharge area be completed to determine if any spill related to such has impacted the subsurface. PT also recommends that proper spill prevention and storage techniques are employed.

- Several sites with potential sources of soil and groundwater contamination were identified in close proximity to the subject property. Identification of such sites was anticipated due to the urban setting of the subject area. Migration of contaminants from these sites to the subject property would most likely be via groundwater and/or vapor. Based on the E-Designation of the subject property and several immediate surrounding areas, PT has recommended that a soil and groundwater investigation should be completed on the site. The investigation will also assess possible indoor air quality impacts from vapor intrusion; including the potential for impacted groundwater, if identified, to volatilize into the proposed building.

9.0 Conclusions

We have performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice I 1527 of the property located at 430-434 Van Brunt Street in Brooklyn, Kings County, New York. The subject property is further identified as Block 603; Lots 23 and 24. Any exceptions to, or deletions from this practice are described in **Sections 2.4**, **2.5**, and **11.0** of this report.

This assessment has revealed no evidence of recognized environmental conditions in connection with the subject property except for the following:

- Historic Utilization/E-Designation (REC-1)
- Historic Fill (REC-2)
- Storage Container (REC-3)
- Material Staging Areas (REC-4)
- Ruptured Drum (REC-5)
- Potential Off-Site Sources of Contamination (REC-6)

10.0 Deviations

PT performed this Phase I ESA in general conformance with the ASTM International *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E 1527-13.* No deviations, limitations or deletions from ASTM International *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E 1527-13* occurred or were imposed by the client during the preparation of this Phase I ESA.

11.0 Additional Services/Non-Scope Considerations

This assessment did not include any additional services/non-scope considerations from ASTM International *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E 1527-13.*

12.0 References

Reference material used to prepare this Phase I ESA report included, but was not limited to:

1. Environmental Data Resources, Inc. (EDR) database report. All reference sources used by EDR in the preparation of the database report are cited within their report. The EDR report is included, in its entirety, in **Appendix 5**.

2. Aerial Photographs, EDR.

3. USGS Topographic Series

4. New York City Searchable Property Environmental E-Database (SPEED) Geographic Information System (GIS) database

5. Geologic Map of New York prepared by the USGS

6. Sanborn Fire Insurance Maps, from EDR.

7. New York City Department of Buildings, Building Information System (BIS).

13.0 Qualifications

I declare that, to the best of my professional knowledge and belief, I meet the definition of *Environmental professional* as defined in §312.10 of 40 CFR 312 and I have the specific qualifications based on education, training, and experience to assess a *property* of the nature, history, and setting of the subject *property*. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Paul Moscatello
Vice President

FIGURES

BROOKLYN, NEW YORK

N

FIGURE 1
SITE LOCATION MAP

PREPARED FOR:
STREKTE
578 DEGRAW STREET
BROOKLYN, NEW YORK

PREPARED BY:
PT CONSULTANTS, INC.
629 CREEK ROAD
BELLMAWR, NEW JERSEY 08031

PT PROJECT # 12090-01	DRAFTSMAN: DTC
DATE: AUGUST 4, 2014	SCALE: 1" = 2000'

APPENDICES

APPENDIX 1
PT PROPOSAL

PT CONSULTANTS, INC.

"ENVIRONMENTAL CONSULTING AND REMEDIATION"

May 8, 2014

Mr. Paul Jensen
STREKTE
578 Degraw Street
PO Box 21041
Brooklyn, New York 11217
(718) 838-3250/Fax(718) 838-3252
Cell (646) 488-0093
Paul@STREKTE.COM

RE: PHASE I ENVIRONMENTAL SITE ASSESSMENT
430-432 VAN BRUNT STREET
BLOCK 603, LOT(S) 23 & 24
BROOKLYN, NEW YORK
PT PROPOSAL#14-1273

Dear Mr. Jensen:

PT Consultants, Inc, (PT) is pleased to provide the following proposal to complete a Phase I Environmental Site Assessment for the property located at 430-432 Van Brunt Street, Brooklyn, New York. The property is also known on the New York City Tax Map as Block 603, Lot(s) 23 and 24.

An application for development of the property was submitted to the New York City Environmental Quality Review Board and assigned number OODME013K from the application number 020047 ZMK, based on zoning map 16a. A review of the application was completed and the site was referred to the New York City Mayors Office Of Environmental Remediation. An E designation was assigned to the site on January 30, 2002 as E-110 for Underground Storage Tank(s) Testing Protocol.

The first step in the E Designation program is to complete an Environmental Assessment of the Property in accordance with ASTM Phase I Standards latest edition.

The purpose of the audit is to comply with Lendor Liability Provisions, NYC -OER requirements, and to identify potential Recognized Environmental Conditions.

A final report will be prepared identifying any REC's and provide recommendations. PT will submit the report and a Short Form Remedial Action Report describing proposed sampling of the site soils, groundwater and soil vapor as part of the Phase II Investigation. Once entered into the E Designation program sampling of the soils and groundwater is required based on the Description provided in the E Designation and any other REC's identified in the Phase I Investigation. Pricing for the Phase II work will be provided after identification of any REC's.

Pricing includes meeting with the NYC-OER office to gain approval for the Phase II Investigation.

629 CREEK ROAD • BELLMAWR, NEW JERSEY 08031 • (856) 251-9980 • FAX (856) 931-1849
121 WEST 27TH STREET • SUITE 1004 • NEW YORK, NEW YORK 10001 • (917) 338-3086
WWW.PTCONSULTANTSINC.COM

PT can complete the above scope of work for a not to exceed fee of $4,500.

All work will be completed in accordance with PT's General Terms and Conditions, a copy of which is attached.

PT can begin work on this project upon your authorization to proceed. Please sign the proposal below and return to our office to act as your authorization.

Thank you for the opportunity to be of service. If you have any questions feel free to contact me at 856-251-9980 or via cell phone at 732-672-0239.

Very truly yours,

PT CONSULTANTS INC

Paul Moscatello

Paul Moscatello
Vice President

Authorized By: PAUL JENSEN
AS PROXY FOR PASQUALE PERE
MARLBORO BUILDERS LLC 8/7/2014

Date:

PT CONSULTANTS, INC.

TERMS AND CONDITIONS

1. **Nature of Agreement** These Terms and Conditions shall apply to all work performed by PT Consultants, Inc. ("PT") under the attached Proposal and any work undertaken for the Client which becomes the subject of a future proposal, including any services rendered by an employee of PT as a Licensed Site Remediation Professional (LSRP) under New Jersey law. The Terms and Conditions and Proposal, including any amendments, constitute the Agreement between the parties.

2. **Client's Responsibilities/ Scope of Work** Client understands that the scope of work and any time schedule defined in the Proposal are based on information provided by the Client. If this information is incomplete or inaccurate, or if unexpected conditions are discovered, the scope of work may change, even as the work is in progress.

3. **Charges, Billing and Payment** The client shall pay PT in accordance with the Agreement. PT shall submit monthly invoices to the Client for services rendered. Payment is due upon presentation of an invoice and is past due thirty days from the date of each invoice. The Client agrees to pay a finance charge of one and one half (1 ½%) percent per month, or the maximum rate allowed by law, on past due accounts, whichever is greater. In the event that the invoice is not paid voluntarily and promptly, and must be referred to an attorney or agency for collection, the Client agrees to pay a collection fee equal to the actual attorney or agency collection fee incurred by PT. All past due payments which are made shall be applied first to accrued interest and then to the principal unpaid amount.

If the client objects to all or any portion of the invoice, the client shall also notify PT, in writing, of its objection within ten (10) business days from the date of the invoice, give reasons for the objection, and pay the portion of the invoice not in dispute. In the event that payment to PT is not maintained on a thirty (30) day current basis, PT may, upon providing ten (10) days written notice to the Client, suspend any further performance and withhold any and all data from the Client until such invoiced payment(s) is restored to a current basis.

Any invoices that are not paid within thirty (30) days of a Client's receipt of collection action notification by an attorney or collection agency shall constitute a release of PT from any and all claims whatsoever, including, but not limited to, tort, or contract claims, which Client may have against PT for services performed under said invoice(s).

It is anticipated that fees and expenses charged by PT will increase in subsequent years, and PT shall provide Client with at least thirty days written notice before effectuating such change. Any fees and costs billed to Client for work performed after termination of this Agreement arising out of or related to performance as an LSRP shall be charged at the rates set forth in PT's then current fee schedule.

Initial _____

4. **Legal Obligations of LSRP** The Parties acknowledge that an LSRP must comply fully with the various provisions of the New Jersey Site Remediation Reform Act (SRRA) and other applicable laws, regulations and guidelines. Under New Jersey law, an LSRP's "highest priority in the performance of professional services shall be the protection of public health and safety and the environment." Accordingly, while LSRP, when allowed to do so by law, will seek to take into consideration the views of Client with respect to the remediation, Client acknowledges that an LSRP is obligated by law to exercise his or her independent, professional judgment and make decisions and submit reports and communications to the NJDEP which may not be in accord with the preferences or interests of Client. Compliance by the LSRP with the obligations imposed upon LSRPs by law or regulation shall not be a ground for the Client to withhold payment or claim a breach of LSRP's duty to Client. Furthermore, under the SRRA, no person may retaliate against an LSRP based upon any of the grounds set forth in the Act.

5. **Penalties and Fees** The SRRA and its implementing regulations provide for the imposition of certain penalties for noncompliance with requirements of the SRRA and other laws and regulations. They also require that certain fees be paid, some on an annual basis, by those parties responsible for the remediation of a contaminated site. Moreover, noncompliance with SRRA and other laws and regulations can lead to the NJDEP assuming direct oversight of a remediation. Client agrees that under no circumstances shall PT or LSRP be responsible to pay such penalties or fees or be responsible for any increased costs resulting from the NJDEP's direct oversight of the remediation.

6. **NJDEP Audits** Under the SRRA, upon completion of the remediation, an LSRP shall issue a Response Action Outcome ("RAO") when in the opinion of the LSRP, the site has been remediated so that it is in compliance with all applicable statutes, rules and regulations protective of public health, safety and the environment. The NJDEP will then have the opportunity, usually for a period of three years from issuance of the RAO, to audit the RAO and invalidate it if it deems such invalidation to be appropriate. The parties agree that any services rendered or costs charged by PT, whether prior to or following the termination of this Agreement, arising out of or related to the audit of an RAO, including the cost of any further remediation required by the NJDEP, shall be borne solely by Client. Client acknowledges that a determination by the NJDEP that an RAO will be invalidated does not mean that LSRP has performed his or her work in an improper or sub-standard manner.

7. **Documents**

a. An LSRP is required to maintain all data, documents and information, including, but not limited to technical records, contractual documents, raw sampling and monitoring data concerning remediation activities, whether or not these data, information and documents were developed by the LSRP. Subject to limited claims of confidentiality, the LSRP must also provide these documents, data and information to the NJDEP, other governmental entities and members of the public upon request and to the NJDEP upon issuance of the RAO. Client agrees to pay PT, both prior to and after the termination of this Agreement, for all services rendered and

Initial _____

costs incurred related to the providing of documents, whether relating to the services of an LSRP or otherwise, or claims that any document should not be provided.

b. Any reuse of documents without written approval by PT shall be at Client's sole risk, and Client shall indemnify, defend and hold PT and LSRP harmless from all claims, damages and losses and expenses, including attorneys fees resulting therefrom. If Client seeks written approval from PT or LSRP for such use, PT shall be entitled to charge Client for the services rendered in evaluating the documents prior to deciding whether to grant such approval.

c. PT will retain the Site file for such time as is required by law. In the absence of any written instructions to the contrary from Client and agreement with Client, PT shall be able to discard any and all documents when it is legally permitted to do so.

8. **Limited Warranty** PT and its employees, including those serving as LSRPs, shall exercise reasonable care and diligence and shall apply the knowledge and skill ordinarily exercised by professionals performing such services who are in good standing in the area where the work is performed at the time that the services are performed. This warranty shall extend for a period of one year from the date that the service in question was rendered and shall be the sole warranty given by PT, and if applicable, the LSRP to Client. Specifically, but without limitation, PT and LSRP make no representation or warranty that the services of PT or the LSRP will be deemed satisfactory by the NJDEP, that the NJDEP will not determine that there are deficiencies which must be corrected, or that the NJDEP will not determine that an RAO issued by LSRP should be invalidated and additional remediation performed.

9. **Indemnification** To the fullest extent permitted by law Client shall indemnify, defend and hold harmless, PT, and its subcontractors, consultants, agents, officers, directors, and employees, including any LSRP employed by PT (herein collectively referred to as "Consultant") from and against all claims, damages, losses and expenses, whether direct, indirect or consequential, including but not limited to fees and charges of attorneys and all other expenses of litigation, arising out of, related to or resulting from the services of Consultant or any claims against Consultant arising from the acts, omissions or work of others, unless a judgment has been entered that the Consultant was negligent and that such negligence was the sole cause of the loss or injury.

10. **Limitation of Damages** The parties agree that the Consultant has neither created, nor contributed to the creation or existence of any hazardous, radioactive, toxic, irritant, pollution, or other dangerous substance or conditions at the Site, and that its compensation is in no way commensurate with the potential risk or injury or loss that may be caused by exposures to such substances and/or conditions. Accordingly, Client agrees that the liability of Consultant for any damage or injury covered by insurance shall be limited to the amount of the available limits of liability of the policy or policies which protects Consultant against the claim in question. Under no circumstances, shall Consultant be responsible for indirect or consequential damages, including, but not limited to, loss of profits.

The limitation of liability established under this Agreement shall survive the expiration or

Initial _____

termination of this Agreement and shall apply to any additional services provided as the result of additional work orders, change orders, other Client directives, or requirements of law.

11 **Termination of Services** Either party may terminate this Agreement upon the giving of at least 14 days written notice to the other. Under the SRRA, the NJDEP must be notified whenever the services of an LSRP are terminated. Client shall be responsible for any unpaid fees and expenses incurred by Client prior to termination. Client also agrees to pay to pay PT for all charges relating to the procedures required by the SRRA and/or other laws and regulations concerning the termination of LSRP's services and the orderly transfer of the Site file. PT and LSRP shall have no obligation to reproduce any part of the Site file if Client is not current in its payments.

12. **Governing Law and Consent to Jurisdiction** This Agreement shall be governed by the laws of the State of New Jersey, irrespective of the principles of conflicts of law applicable therein. Client and PT agree that any dispute arising under this Agreement, except one to collect a judgment or involving a bankruptcy, shall be brought exclusively in the Superior Court of New Jersey, Camden County or the U.S. District Court for the District of New Jersey sitting in Camden and the parties consent to the jurisdiction of those Courts.

13. **Right of Entry** Client hereby grants PT and its subcontractors the right to enter the property which is the subject of the proposal in order to fulfill the scope of work described. Client understands that the use of exploration equipment may cause some disturbances to the property. Prior to work, PT will complete the necessary utility notification call. PT shall not be responsible for damage or injury to unmarked utilities or subterranean structure(s)/utilities which are not specifically identified or located by the client.

14. **Notices** Any written notice required to be given by one party to the other under this Agreement shall be sent by certified mail, fax, overnight mail by a recognized delivery service, or hand delivery to the address of that party set forth on the first page of the Proposal or such other address as may subsequently be given by the party in question.

15. **Independent Contractor** In performing services, PT, including an LSRP employed by PT, shall be an independent contractor and not an agent or employee of Client.

16. **Binding Effect/No Reliance** This Agreement is for the benefit only of PT, including, if applicable, the LSRP, and Client, as well as their successors in interest. No other individual or entity shall have any right to rely upon the terms of this Agreement or on the services rendered hereunder.

17. **Entire Agreement/Modification** This Agreement entails the full and complete understanding between parties with respect to the subject services, and no addition or modification of or waiver of any provision of this Agreement shall be binding on either party unless made in writing and executed by an officer of PT and by Client. If any portion of this

Initial _____

Agreement is held invalid or unenforceable, all remaining portions shall continue in full force and effect.

18. **Survival of Obligations** It is agreed that these Terms and Conditions shall survive termination of the Agreement.

19. **Guaranty** If an individual or entity signs the Proposal as "Guarantor," the Guarantor so designated hereby guarantees all obligations of Client under this Agreement. Guarantor waives notice of presentment and dishonor and any other technical notices which may otherwise be required to be provided to guarantors. PT may pursue Guarantor for payment as if Guarantor was liable in the first instance for the sums in question and PT shall not be obligated to first seek or pursue payment from Client before pursuing Guarantor.

Initial PJ

APPENDIX 2
QUALIFICATIONS

PROFESSIONAL PROFILE

DENIS CUMMINGS

REGISTRATIONS/CERTIFICATIONS

- 40-Hour OSHA HAZWOPER Training - 29 CFR 1910-120
- 8-Hour Annual OSHA HAZWOPER Refresher –March 2014
- AHERA Certified Asbestos Inspector
- Licensed Asbestos Investigator - Philadelphia, PA
- Certified Lead Renovator – USEPA (CLR)

EDUCATION

B.S. in Environmental Sciences, Richard Stockton College of New Jersey, in Pomona, NJ, 2005

EXPERIENCE SUMMARY

Mr. Cummings has over eight years of experience in various aspects of environmental investigations, including services related to geology, soil and groundwater characterization, soil and groundwater remediation, underground storage tank (UST) closures, soil vapor investigations, indoor air quality, and asbestos surveys. Mr. Cummings also has experience in construction phase related projects, as well as conducting geotechnical investigation projects.

In his capacity as an Environmental Scientist, Mr. Cummings performs Phase I and Phase II environmental site assessments, remedial investigation and remediation activities. Mr. Cummings has overseen well installations in numerous hydrogeologic settings using a full-range of drilling techniques, including air rotary, direct-push, and hollow-stem augers. Mr. Cummings has supervised and/or conducted various sampling and remediation activities, including soil /groundwater sampling, subsurface vapor sampling, ambient air sampling, UST Closure activities, remedial excavation activities, remedial injections, and remediation system installations. Mr. Cummings has performed asbestos sampling including locating and identifying potential asbestos, taking samples and reporting the chain of custody. Additional experience includes Ground Penetration Radar, nuclear density and moisture testing, Global Positioning Systems, and concrete sampling. Mr. Cummings' strong field evaluation and report skills, coupled with his in-depth knowledge of the regulations, enables him to provide cost-effective strategies while reducing liabilities.

KEY PROJECT EXPERIENCE

- Experience in performing Phase I Environmental Site Assessments and Preliminary Assessments for real estate transactions by completing database searches of federal, state and local government files, reviewing aerial photographs, interviewing, performing site reconnaissance, and preparing reports. His experience includes New Jersey, Pennsylvania, New York, Connecticut, Maryland, and Delaware.

- Supervised well installations and conducted sampling in numerous hydrogeologoic settings. Work included well gauging, surveying, and data analysis. Completion of sensitive receptor surveys and Groundwater contour maps.

- Provided coordination, oversight, and conducted investigations at numerous locations requiring delineation and removal of contaminated media.

- Experience performing site investigations including: groundwater sampling, ground-penetrating radar survey, magnetic line locating surveys, GEOPROBE investigations.

- Experience in performing indoor air quality investigations for mold complaints.

- Conducted air monitoring and bulk sampling for asbestos sampling and abatement projects

- Provided oversight regarding the installation of a geosynthetic cap for a NPL site in Pennsylvania for redevelopment.

- Experience performing tank removals in New Jersey and Pennsylvania.

- Conducted oversight at large-scale construction projects including: regrading activities, seeding, installation of lighting and utilities, earthmoving, surveying, road design, and erosion and sediment control.

PROFESSIONAL PROFILE

PAUL A. MOSCATELLO

REGISTRATIONS/CERTIFICATIONS

NJDEP TANK CLOSURE CERTIFICATION #0011236
PADEP UMR #4172
AHERA Certified Asbestos Building Inspector
Florida Pollutant Storage Contractors License
OSHA 40 Hour Certified
OSHA 8 Hour Supervisor Training
OSHA 8 Hour Update
Competent Person

EXPERIENCE SUMMARY

Mr. Moscatello has thirty years experience in environmental services related to Phase I and Phase II investigations, Asbestos surveys, Asbestos air monitoring and oversight, hazardous waste, industrial site cleanup and installations of remedial systems. He has worked on a wide range of environmental investigations throughout the United States. Mr. Moscatello also has extensive experience with State and Federal Underground Storage Tank Regulations in New Jersey, New York, Rhode Island, Massachusettes, Pennsylvania, Florida, Virginia, Maryland, Delaware and Connecticut.

EDUCATION

B.S., Business Administration, Stockton State College of Pomona, New Jersey, 1985

Underground Storage Tank Seminar, Rutgers University

KEY PROJECT EXPERIENCE

- Organized and managed former industrial site clean-up from Phase I Investigation through final NJDEP clearance. Responsibilities include obtaining and submitting funding for state grants, such as, green acres and hazardous site remediation.

- Performed investigations in Pennsylvania following the Pennsylvania Land Recycling Regulation.

- Performed investigations in New Jersey following the current Brownfields Regulations as they relate to the Technical Requirements for Site Remediation.
- Performed the installation and operation/maintenance of remedial systems.
- Performed tank removal and installations throughout the East Coast.
- Coordinate environmental projects and environmental assessments throughout the East Coast.
- Perform field supervision activities for tank removal throughout the East Coast.
- Managed classification, disposal and transportation of hazardous materials throughout the United States.
- Prepared permits regarding UST regulations in New Jersey (Closure Approval and Substantial Modification).

PERSONAL AFFILIATIONS

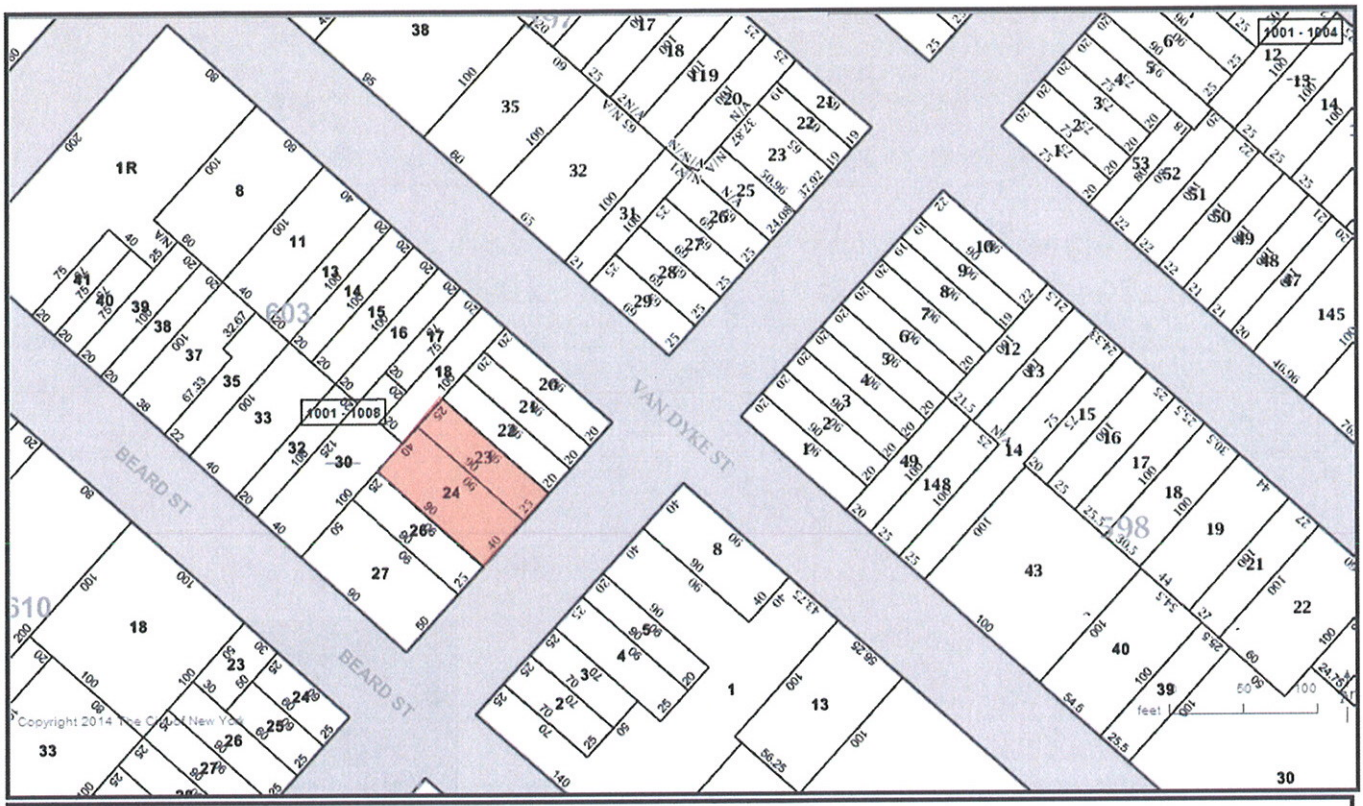
Chairman of Hazardous Waste Committee for Utility Transportation Contractors Association

South Kearny Industrial Association

APPENDIX 3
TAX MAP

Tax Map - 7/29/2014

Digital Tax Map - New York City Dept. of Finance



— —	Borough Boundary	C50	Condo Flag/Condo Nunber
═══	Tax Block Boundary	A50	Air Right Flag/Lot Number
50	Tax Block Number	S50	Subterranean Right Flag/Lot Number
———	Tax Lot Boundary	R	REUC Flag
50	Tax Lot Number	- - - - -	Under Water Tax Lot Boundary
~~50~~	Condo FKA Tax Lot Number	—·—·—	Other Boundary
50.5	Tax Lot Dimension	⤵	Possession Hook
+/-5.5	Approximate Tax Lot Dimension	Misc	Miscelaneous Text
1500 - 1550	Condo Units Range Label	○	Small Tax Lot Dimension
	Building Footprint		Surface Water

APPENDIX 4
USER QUESTIONNAIRE

Interview with Property Owner/Site Representative

Name: PASQUALE PACE
Title: OWNER
Phone 917 939 1194

(A) Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state, or local law? NO

(B) Are you aware of any AULs (activity use limitations), such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law? NO

(C) Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example:

1. **To the best of your knowledge, what is the history (previous uses, construction/development dates, etc) of the property?**
   VACANT LAND USED ~~TO STORE CONCRETE FORMS~~ FOR CONTRACTOR STORAGE
2. **To the best of your knowledge, are there now, or have there been in the past, any underground or above ground storage tanks located on the target property?** NO
3. **To the best of your knowledge, are you aware of any releases of hazardous substances or petroleum products on or near the property?** NO
4. Do you know of any environmental cleanups that have taken place at the property? NO

(D) Do you have any of the following documents that are available for review (ESAs – Phase I or II, Compliance/Audit reports, environmental permits, UST or AST registrations, underground injection permits or registrations, MSDS sheets, right to know documents, SPCC plans, hydrologic or geotechnical reports, notices of violations or liens, hazardous waste generator reports, risk assessments, or AULs)?

NO

USER Questionnaire

In order to qualify for one of the Landowner Liability Protections (LLPs)[1] offered by the Small Business Liability Relief and Brownfields Revitalization Act (the "Brownfields Amendments"),[2] the *user* **must provide** the following information (if available) to the *environmental professional*. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete.

1. **Environmental cleanup liens that are filed or recorded against the site (40 C.F.R. 312.25).**

   Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law? NO

2. **Activity and land use limitations that are in place on the site or have that been filed or recorded in a registry (40 C.F.R. 312.26).**

   Are you aware of any AULs, such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law? NO

3. **Specialized knowledge or experience of the person seeking to qualify for the LLP (40 C.F.R. 312.28).**

   As the user of this ESA do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business? NO

4. **Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 C.F.R. 312.29).**

   Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? YES

---

1 Landowner Liability Protections, or LLPs, is the term used to describe the three types of potential defenses to the Superfund liability in EPA's *Interim Guidance Regarding Criteria Landowners Must Meet in Order to Qualify for Bona Fide Prospective Purchaser, Contiguous Property Owner, or Innocent Landowner Limitations on CERCLA Liability ("Common Element" Guide)* issued on March 6, 2003.

2 P.L. 107-118.

5. **Commonly known or reasonably ascertainable information about the property (40 C.F.R. 312.30).**

Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of the releases or threatened releases? For example, as user,

a) Do you know the past uses of the property? NO

b) Do you know of specific chemicals that are present or once were present at the property?

NO

c) Do you know of spills or other chemical releases that have taken place at the property?

NO

d) Do you know of any environmental cleanups that have taken place at the property?

NO

6. **The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 C.F.R. 312.31).**

As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence of likely presence of contamination at the property?

NO

In addition, certain information should be collected, if available, and provided to the environmental professional selected to conduct the Phase I. This information is intended to assist the environmental professional but is not necessarily required to qualify for one of the LLPs. The information includes:

- the reason why the Phase I is required,
- the type of property and type of property transaction, for example, sale, purchase, exchange, etc.,
- the scope of services desired for the Phase I (including whether any parties to the property transaction may have a required standard scope of services or whether any considerations beyond the requirements of Practice E 1527 are to be considered),
- identification of all parties who will rely on the Phase I report,
- identification of the site contact and how the contact can be reached,
- any special terms and conditions which must be agreed upon by the environmental professional,
- any other knowledge or experience with the property that may be pertinent to the environmental professional (for example, copies of any available prior environmental site assessment reports, documents, correspondence, etc., concerning the property and its environmental condition).

User PROXY FOR PASQUALE PACE

2014.8.7

Date

APPENDIX 5
EDR REPORT

430-432 Van Brunt Street
430-432 VAN BRUNT ST
Brooklyn, NY 11231

Inquiry Number: 4017064.2s
July 25, 2014

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800 352 0050
www.edrnet.com

FORM LBC-PXM

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	252
Government Records Searched/Data Currency Tracking	GR-1
GEOCHECK ADDENDUM	
Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-7
Physical Setting Source Map Findings	A-8
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

430-432 VAN BRUNT ST
BROOKLYN, NY 11231

COORDINATES

Latitude (North):	40.6756000 - 40' 40' 32.16"
Longitude (West):	74.0153000 - 74' 0' 55.08"
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	583222.3
UTM Y (Meters):	4503001.5
Elevation:	8 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	40074-F1 JERSEY CITY, NJ NY
Most Recent Revision:	1981
East Map:	40073-F8 BROOKLYN, NY
Most Recent Revision:	1995

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20110705, 20100731
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
ROADWAY 430 VAN BRUNT ST BROOKLYN, NY	NY Spills Spill Number/Closed Date: 9607095 / 9/5/1996	N/A
430 VAN BRUNT 430 VAN BRUNT BROOKLYN, NY 11231	ERNS	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls
LUCIS..... Land Use Control Information System

State- and tribal - equivalent CERCLIS

VAPOR REOPENED..... Vapor Intrusion Legacy Site List

State and tribal leaking storage tank lists

HIST LTANKS..... Listing of Leaking Storage Tanks

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

TANKS..... Storage Tank Faciliy Listing
CBS UST..... Chemical Bulk Storage Database
MOSF UST..... Major Oil Storage Facilities Database
MOSF AST..... Major Oil Storage Facilities Database
MOSF..... Major Oil Storage Facility Site Listing
INDIAN UST..... Underground Storage Tanks on Indian Land
FEMA UST..... Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

RES DECL..... Restrictive Declarations Listing

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

ERP..... Environmental Restoration Program Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

ODI..... Open Dump Inventory
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
SWTIRE..... Registered Waste Tire Storage & Facility List
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs
US HIST CDL..... National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

HIST AST..... Historical Petroleum Bulk Storage Database

Local Land Records

LIENS 2..... CERCLA Lien Information
LIENS..... Spill Liens Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

NY Hist Spills..... SPILLS Database
SPILLS 80..... SPILLS 80 data from FirstSearch

Other Ascertainable Records

DOT OPS..... Incident and Accident Data
DOD..... Department of Defense Sites
CONSENT..... Superfund (CERCLA) Consent Decrees
ROD..... Records Of Decision
UMTRA..... Uranium Mill Tailings Sites
US MINES..... Mines Master Index File
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
SSTS..... Section 7 Tracking Systems
ICIS..... Integrated Compliance Information System
PADS..... PCB Activity Database System
MLTS..... Material Licensing Tracking System
RADINFO..... Radiation Information Database
FINDS..... Facility Index System/Facility Registry System
RAATS..... RCRA Administrative Action Tracking System
RMP..... Risk Management Plans
HSWDS..... Hazardous Substance Waste Disposal Site Inventory
UIC..... Underground Injection Control Wells
DRYCLEANERS..... Registered Drycleaners
SPDES..... State Pollutant Discharge Elimination System
AIRS..... Air Emissions Data
INDIAN RESERV..... Indian Reservations
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
Financial Assurance..... Financial Assurance Information Listing
2020 COR ACTION..... 2020 Corrective Action Program List
LEAD SMELTERS..... Lead Smelter Sites
PRP..... Potentially Responsible Parties
US AIRS..... Aerometric Information Retrieval System Facility Subsystem
US FIN ASSUR..... Financial Assurance Information
PCB TRANSFORMER..... PCB Transformer Registration Database
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
COAL ASH..... Coal Ash Disposal Site Listing
COAL ASH DOE..... Steam-Electric Plant Operation Data
EPA WATCH LIST..... EPA WATCH LIST

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP..... EDR Proprietary Manufactured Gas Plants
EDR US Hist Cleaners..... EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF..... Recovered Government Archive Solid Waste Facilities List

EXECUTIVE SUMMARY

RGA HWS..... Recovered Government Archive State Hazardous Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 10/25/2013 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BROOKHATTAN SMELTING & REFININ	162 RICHARDS ST	ENE 1/8 - 1/4 (0.236 mi.)	83	156

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/11/2014 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NYC DEPT OF ED - PUBLIC SCHOOL	71 SULLIVAN ST	NE 1/8 - 1/4 (0.225 mi.)	O76	148

EXECUTIVE SUMMARY

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 03/11/2014 has revealed that there are 3 RCRA-CESQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CON EDISON MANHOLE: 43857	COFFEY ST & VAN BRUNT	NE 0 - 1/8 (0.075 mi.)	E26	40
CON EDISON MANHOLE: 43655	VAN BRUNT ST & DIKEMAN	NE 0 - 1/8 (0.125 mi.)	47	67

Lower Elevation	Address	Direction / Distance	Map ID	Page
BARGE AUTO BODY INC	***34 COFFEY ST***	***ESE 1/8 - 1/4 (0.221 mi.)***	***N70***	***124***

State- and tribal - equivalent CERCLIS

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Conservation's Inactive Hazardous waste Disposal Sites in New York State.

A review of the SHWS list, as provided by EDR, and dated 05/19/2014 has revealed that there are 5 SHWS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHEMTURA 633 COURT STREET	633 COURT STREET	ESE 1/2 - 1 (0.802 mi.)	103	222
Class Code: Significant threat to the public health or environment - action required.				

Lower Elevation	Address	Direction / Distance	Map ID	Page
CHEM TURA	***688-700 COURT ST***	***ESE 1/2 - 1 (0.809 mi.)***	***104***	***226***
Class Code: Significant threat to the public health or environment - action required.				
RED HOOK SMITH STREET	***627 SMITH ST.***	***ESE 1/2 - 1 (0.870 mi.)***	***105***	***244***
CASTLE WILLIAMS, GOVERNORS ISL	GOVERNOR'S ISLAND	NNW 1/2 - 1 (0.957 mi.)	S106	247
FORT JAY DOD GRANT	GOVERNORS ISLAND	NNW 1/2 - 1 (0.957 mi.)	S107	248

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the list.

A review of the SWF/LF list, as provided by EDR, and dated 04/09/2014 has revealed that there are 5 SWF/LF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CONOVER TRANSFER STATION	143-47 WALCOTT ST	NNE 1/8 - 1/4 (0.195 mi.)	K62	104

Lower Elevation	Address	Direction / Distance	Map ID	Page
ACCURATE ASBESTOS	39 FERRIS STREET	N 1/4 - 1/2 (0.289 mi.)	Q87	164

Lower Elevation	Address	Direction / Distance	Map ID	Page
ALLSTATE MEDICAL WASTE DISPOSA	27-29 BAY STREET	ESE 1/4 - 1/2 (0.349 mi.)	95	205
WASTE MANAGEMENT (EASTERN) (AL	518-526 COLUMBIA ST	ESE 1/4 - 1/2 (0.397 mi.)	96	205
BROOKLYN CRUSHED MATERIALS; IN	640 COLUMBIA ST	SE 1/4 - 1/2 (0.448 mi.)	98	209

State and tribal leaking storage tank lists

LTANKS: Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills

A review of the LTANKS list, as provided by EDR, and dated 05/19/2014 has revealed that there are 11 LTANKS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RED HOOK WEST	***11 LORRAINE STREET***	***E 1/4 - 1/2 (0.324 mi.)***	***93***	***193***
Spill Number/Closed Date: 9105606 / 12/19/2005				
Spill Number/Closed Date: 9200022 / 12/19/2005				
RED HOOK WEST	***82 DWIGHT STREET - PLAN***	***E 1/4 - 1/2 (0.336 mi.)***	***94***	***199***
Spill Number/Closed Date: 9011065 / 7/3/1996				
MOBIL GAS STATION	***50-25 BAY PARKWAY***	***ESE 1/4 - 1/2 (0.398 mi.)***	***97***	***207***
Spill Number/Closed Date: 9407907 / 12/6/1994				
WAREHOUSE	80 RICHARDS STREET	ENE 1/4 - 1/2 (0.449 mi.)	99	210
Spill Number/Closed Date: 0310837 / 2/13/2004				
RED HOOK EAST -NYCHA	37 CENTER MALL	E 1/4 - 1/2 (0.464 mi.)	100	211
Spill Number/Closed Date: 9011672 / 2/8/2013				
RED HOOK WEST	***420 COLUMBIA STREET***	***ENE 1/4 - 1/2 (0.465 mi.)***	***101***	***213***
Spill Number/Closed Date: 9200023 / 12/20/2005				
Spill Number/Closed Date: 9011015 / 12/20/2005				
RED HOOK WEST -NYCHA	85 LORRAINE STREET	ESE 1/4 - 1/2 (0.492 mi.)	102	220
Spill Number/Closed Date: 9011066 / 7/18/2013				

Lower Elevation	Address	Direction / Distance	Map ID	Page
REVERE SUGAR CORP	***280 RICHARDS ST***	***SSE 1/8 - 1/4 (0.133 mi.)***	***H51***	***77***
Spill Number/Closed Date: 9001856 / 12/6/1991				
WHALECO FUEL CORP	***1 COFFEY ST***	***ESE 1/4 - 1/2 (0.291 mi.)***	***88***	***165***
Spill Number/Closed Date: 9714140 / 2/6/2006				
PORT AUTHORITY MARINE	32 FERRIS STREET	N 1/4 - 1/2 (0.307 mi.)	Q89	166
Spill Number/Closed Date: 9914821 / 10/9/2001				
IKEA RED HOOK	***1 BEARD STREET***	***SE 1/4 - 1/2 (0.321 mi.)***	***R90***	***167***
Spill Number/Closed Date: 9210149 / 3/10/2003				
Spill Number/Closed Date: 9103482 / 3/14/2003				
Spill Number/Closed Date: 9012051 / 2/19/1991				

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the UST list, as provided by EDR, and dated 03/31/2014 has revealed that there are 7 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NECHANAH & RAFAEL, LLC	175 BEARD STREET	W 0 - 1/8 (0.039 mi.)	D20	29
MATTHEW RUGGIERO PLUMBING CO.	125 DIKEMAN STREET	NNE 1/8 - 1/4 (0.126 mi.)	48	68
202 COFFEY STREET ASSOCIATES	202 COFFEY STREET	NNW 1/8 - 1/4 (0.197 mi.)	L64	109
CUPIE BUS	165 WOLCOTT STREET	N 1/8 - 1/4 (0.224 mi.)	73	134

Lower Elevation	Address	Direction / Distance	Map ID	Page
221-229 RICHARDS STREET	221 RICHARDS STREET	ESE 1/8 - 1/4 (0.128 mi.)	50	72
REVERE SUGAR CORPORATION	***280 RICHARDS STREET***	***SSE 1/8 - 1/4 (0.133 mi.)***	***H53***	***85***
KARBO BRONZE FOUNDRIES	***24 VAN DYKE ST***	***SE 1/8 - 1/4 (0.248 mi.)***	***P85***	***159***

AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database.

A review of the AST list, as provided by EDR, and dated 03/31/2014 has revealed that there are 6 AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CUPIE TRANSPORTATION CORP.	***145-147 WOLCOTT STREET***	***NNE 1/8 - 1/4 (0.198 mi.)***	***K65***	***111***
NYC DEPT OF ED - PUBLIC SCHOOL	***71 SULLIVAN ST***	***NE 1/8 - 1/4 (0.225 mi.)***	***O75***	***141***

Lower Elevation	Address	Direction / Distance	Map ID	Page
AHAVA FOOD CORP	118 BEARD STREET	SSE 0 - 1/8 (0.073 mi.)	24	36
CORNELL PAPER BOX INC.	180 VAN DYKE STREET	NW 0 - 1/8 (0.119 mi.)	45	64
REVERE SUGAR CORPORATION	***280 RICHARDS STREET***	***SSE 1/8 - 1/4 (0.133 mi.)***	***H53***	***85***
KARBO BRONZE FOUNDRIES	***24 VAN DYKE ST***	***SE 1/8 - 1/4 (0.248 mi.)***	***P85***	***159***

CBS AST: Chemical Bulk Storage Database. Registration data collected as required by 6 NYCRR Part 596. It includes facilities storing hazardous substances listed in 6 NYCRR Part 597, in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size. Includes facilities registered (and closed) since effective date of CBS regulations (July 15, 1988) through the date request is processed.

A review of the CBS AST list, as provided by EDR, and dated 01/01/2002 has revealed that there are 2 CBS AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KINGS COUNTY CONCRETE CO.	***206 COFFEE ST.***	***NNW 1/8 - 1/4 (0.195 mi.)***	***L63***	***105***
KINGS COUNTY CONCRETE	***CROPSEY AVE.***	***NW 1/8 - 1/4 (0.203 mi.)***	***67***	***121***

CBS: These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

A review of the CBS list, as provided by EDR, and dated 03/31/2014 has revealed that there are 2 CBS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KINGS COUNTY CONCRETE CO.	*206 COFFEE ST.*	*NNW 1/8 - 1/4 (0.195 mi.)*	*L63*	*105*
KINGS COUNTY CONCRETE	*CROPSEY AVE.*	*NW 1/8 - 1/4 (0.203 mi.)*	*67*	*121*

State and tribal institutional control / engineering control registries

ENG CONTROLS: Environmental Remediation sites that have engineering controls in place.

A review of the ENG CONTROLS list, as provided by EDR, and dated 05/19/2014 has revealed that there is 1 ENG CONTROLS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
U. S. DREDGING SHIPYARD SITE	*ONE BEARD STREET*	*SE 1/4 - 1/2 (0.321 mi.)*	*R91*	*181*

INST CONTROL: Environmental Remediation sites that have institutional controls in place.

A review of the INST CONTROL list, as provided by EDR, and dated 05/19/2014 has revealed that there is 1 INST CONTROL site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
U. S. DREDGING SHIPYARD SITE	*ONE BEARD STREET*	*SE 1/4 - 1/2 (0.321 mi.)*	*R91*	*181*

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Agreements. The voluntary remedial program uses private monies to get contaminated sites remediated to levels allowing for the sites' productive use. The program covers virtually any kind of site and contamination.

A review of the VCP list, as provided by EDR, and dated 05/19/2014 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
U.S. DREDGING SHIPYARD SITE	ONE BEARD STREET	SE 1/4 - 1/2 (0.321 mi.)	R92	193

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site List

A review of the BROWNFIELDS list, as provided by EDR, and dated 05/19/2014 has revealed that there is

1 BROWNFIELDS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
U. S. DREDGING SHIPYARD SITE	*ONE BEARD STREET*	*SE 1/4 - 1/2 (0.321 mi.)*	*R91*	*181*

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

Registered Recycling Facility List from the Department of Environmental Conservation.

A review of the SWRCY list, as provided by EDR, and dated 04/09/2014 has revealed that there is 1 SWRCY site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
IKEA RED HOOK	*1 BEARD STREET*	*SE 1/4 - 1/2 (0.321 mi.)*	*R90*	*167*

Local Lists of Hazardous waste / Contaminated Sites

DEL SHWS: A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

A review of the DEL SHWS list, as provided by EDR, and dated 05/19/2014 has revealed that there is 1 DEL SHWS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CARROLL GARDENS	CORNER OF 5TH STREET &	E 1/2 - 1 (0.997 mi.)	108	249

Local Lists of Registered Storage Tanks

HIST UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the HIST UST list, as provided by EDR, and dated 01/01/2002 has revealed that there are 2 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CUPIE TRANSPORTATION CORP.	*145-147 WOLCOTT STREET*	*NNE 1/8 - 1/4 (0.198 mi.)*	*K65*	*111*

Lower Elevation	Address	Direction / Distance	Map ID	Page
REVERE SUGAR CORPORATION	*280 RICHARDS STREET*	*SSE 1/8 - 1/4 (0.133 mi.)*	*H53*	*85*

Records of Emergency Release Reports

NY Spills: Data collected on spills reported to NYSDEC. is required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

A review of the NY Spills list, as provided by EDR, and dated 05/19/2014 has revealed that there are 24 NY Spills sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
149 VAN DYKE STREET (HURRICANE Spill Number/Closed Date: 1212251 / 11/13/2012	149 VAN DYKE STREET	N 0 - 1/8 (0.031 mi.)	C16	25
VEHICLE 50512, HYDRAULIC LEAK Spill Number/Closed Date: 0511224 / 3/24/2006	170 BEARD ST	W 0 - 1/8 (0.038 mi.)	D19	28
VACANT LOT Spill Number/Closed Date: 9807182 / 10/7/1998	412 VAN BRUNT ST	NE 0 - 1/8 (0.057 mi.)	E21	31
CANAL SANITATION Spill Number/Closed Date: 0702571 / 6/11/2007	162 VAN DYKE STREET	NNW 0 - 1/8 (0.080 mi.)	39	54
260 COFFEY ST/BKLYN Spill Number/Closed Date: 8906587 / 10/4/1989	260 COFFEY STREET	N 0 - 1/8 (0.108 mi.)	42	61
CONOVER STREET BETWEEN Spill Number/Closed Date: 0200661 / 3/7/2003	DYKEMAN AND COFFEY	NNE 0 - 1/8 (0.109 mi.)	44	63

Lower Elevation	Address	Direction / Distance	Map ID	Page
HOME Spill Number/Closed Date: 1212851 / 3/29/2013	159 BEARD ST	SW 0 - 1/8 (0.026 mi.)	B8	14
NEW YORK BAY Spill Number/Closed Date: 9407695 / 4/25/1997	BEARD ST/VAN BRUNT ST	SSW 0 - 1/8 (0.029 mi.)	B11	18
REED ST / VAN FRONT ST Spill Number/Closed Date: 9302993 / 2/15/1995	REED ST / VAN FRONT ST	SSW 0 - 1/8 (0.073 mi.)	F23	35
VAN BRUNT PUMP STA/BKLYN Spill Number/Closed Date: 9004969 / 2/15/1995	VAN BRUNT AVENUE	SSW 0 - 1/8 (0.080 mi.)	F27	41
VAN VRONT PUMP STA. Spill Number/Closed Date: 9310156 / 2/15/1995	VAN VRONT PUMP STA.	SSW 0 - 1/8 (0.080 mi.)	F28	42
VAN BRUNT ST./B'KLYN Spill Number/Closed Date: 8704954 / 9/14/1987	VAN BRUNT ST.	SSW 0 - 1/8 (0.080 mi.)	F29	43
VAN BRUNT ST PUMP STATION Spill Number/Closed Date: 9605151 / 7/22/1996	VAN BRUNT ST	SSW 0 - 1/8 (0.080 mi.)	F30	44
VAN BRUNT PUMP STA. Spill Number/Closed Date: 9313665 / 9/5/1995	VAN BRUNT PUMP STA.	SSW 0 - 1/8 (0.080 mi.)	F31	45
BUTTERMILK CHANNEL Spill Number/Closed Date: 9509026 / 10/23/1995	VAN BRUNT PUMP STATION	SSW 0 - 1/8 (0.080 mi.)	F32	46
VAN BRUNT PUMP STATION Spill Number/Closed Date: 9410731 / 11/15/1994	VAN BRUNT & REED ST	SSW 0 - 1/8 (0.080 mi.)	F33	47
VAN BRUNT PUMP STATION Spill Number/Closed Date: 9406207 / 8/6/1994	VAN BRUNT PUMP STATION	SSW 0 - 1/8 (0.080 mi.)	F34	48
VAN BRUNT ST PUMP STATION Spill Number/Closed Date: 8900240 / 4/9/1989	READE STREET & VAN BRUN	SSW 0 - 1/8 (0.080 mi.)	F35	50
VAN BROWN ST. & READ ST. Spill Number/Closed Date: 9210558 / 2/15/1995	VAN BROWN ST. & READ ST	SSW 0 - 1/8 (0.080 mi.)	F36	51

Lower Elevation	Address	Direction / Distance	Map ID	Page
VAN BRUNT PUMP STA/BKLYN Spill Number/Closed Date: 8901074 / 5/3/1989	VAN BRUNT PUMP STATION	SSW 0 - 1/8 (0.080 mi.)	F37	52
VAN BRUNT PUMPING STATION Spill Number/Closed Date: 8912230 / 4/9/1990	VAN BRUNT PUMPING STATI	SSW 0 - 1/8 (0.080 mi.)	F38	53
270 CONOVER ST Spill Number/Closed Date: 9409309 / 3/16/1995	270 CONOVER ST-CAR POUN	W 0 - 1/8 (0.094 mi.)	G41	60
METRO REBUILDERS Spill Number/Closed Date: 9804632 / 2/9/2004	269 CONOVER ST	W 0 - 1/8 (0.108 mi.)	43	61
206 RICHARDS ST / LOT Spill Number/Closed Date: 8700667 / 4/23/1987	208 RICHARDS ST/COFFEY	ESE 0 - 1/8 (0.124 mi.)	46	66

SPILLS 90: Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

A review of the SPILLS 90 list, as provided by EDR, and dated 12/14/2012 has revealed that there is 1 SPILLS 90 site within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
149 VAN DYKE STREET (HURRICANE	149 VAN DYKE STREET	N 0 - 1/8 (0.031 mi.)	C17	26

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/11/2014 has revealed that there are 17 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SANOFI BEAUTE INC	*158 BEARD ST ROOM S*	*WSW 0 - 1/8 (0.027 mi.)*	*B9*	*15*
ATLANTIC BC INC	*145 VAN DYKE ST*	*NNE 0 - 1/8 (0.027 mi.)*	*C10*	*17*
JENMAR ELECTRIC SERVICE CORP	*138 VAN DYKE ST*	*N 0 - 1/8 (0.035 mi.)*	*C18*	*26*
C & L DESIGNS	*173 COFFEY ST*	*NNW 1/8 - 1/4 (0.153 mi.)*	*54*	*94*
PLAYWRIGHTS HORIZONS SCENE SHO	*196 VANDYKE ST*	*NW 1/8 - 1/4 (0.154 mi.)*	*55*	*97*
P. MARCKESANO & SONS CO INC	*161 DIKEMAN ST*	*N 1/8 - 1/4 (0.164 mi.)*	*I58*	*100*
CON EDISON MANHOLE: 43651	WALLCOTT ST & VAN BRUNT	NE 1/8 - 1/4 (0.173 mi.)	J60	103
PERFECT BODIES AUTO COLLISION	*145-165 WOLCOTT ST*	*NNE 1/8 - 1/4 (0.198 mi.)*	*K66*	*118*
PREMIUM RUSH MILL	74 SULLIVAN ST	NE 1/8 - 1/4 (0.227 mi.)	O78	151
CON EDISON MANHOLE: 67160	66 SULLIVAN ST	NE 1/8 - 1/4 (0.229 mi.)	O81	155

Lower Elevation	Address	Direction / Distance	Map ID	Page
BLUE STAR MECHANICAL REMOVAL C	*454 VAN BRUNT ST*	*SSW 0 - 1/8 (0.061 mi.)*	*F22*	*33*
VAN BRUNT STORES WAREHOUSE	*480 VAN BRUNT ST*	*SSW 0 - 1/8 (0.087 mi.)*	*40*	*55*
REVERE SUGAR CORP BROOKLYN	*280 RICHARDS STREET*	*SSE 1/8 - 1/4 (0.133 mi.)*	*H52*	*81*

Lower Elevation	Address	Direction / Distance	Map ID	Page
FISCHER MARINE REPAIR CORP	*38 COFFEY ST*	*ESE 1/8 - 1/4 (0.212 mi.)*	*N69*	*123*
CON EDISON SERVICE BOX: 42105	115 SULLIVAN ST	NNE 1/8 - 1/4 (0.223 mi.)	72	133
H & R SHEET METAL CORP	*31 COFFEY ST*	*ESE 1/8 - 1/4 (0.224 mi.)*	*N74*	*138*
H W RAMBERG INC	*37 VAN DYKE ST*	*SE 1/8 - 1/4 (0.226 mi.)*	*M77*	*149*

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 12/31/2012 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ATL BASIN IRON WORKS		WNW 0 - 1/8 (0.073 mi.)	G25	39

MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the MANIFEST list, as provided by EDR, and dated 05/01/2014 has revealed that there are 14 MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
C & L DESIGNS	*173 COFFEY ST*	*NNW 1/8 - 1/4 (0.153 mi.)*	*54*	*94*
PLAYWRIGHTS HORIZONS SCENE SHO	*196 VANDYKE ST*	*NW 1/8 - 1/4 (0.154 mi.)*	*55*	*97*
CON EDISON	WOLCOTT ST AND VAN BRUN	NNE 1/8 - 1/4 (0.172 mi.)	J59	102
PERFECT BODIES AUTO COLLISION	*145-165 WOLCOTT ST*	*NNE 1/8 - 1/4 (0.198 mi.)*	*K66*	*118*
NYC DEPT OF ED - PUBLIC SCHOOL	*71 SULLIVAN ST*	*NE 1/8 - 1/4 (0.225 mi.)*	*O75*	*141*
CON EDISON	OPP 66 SULLIVAN ST AND	NE 1/8 - 1/4 (0.229 mi.)	O80	154

Lower Elevation	Address	Direction / Distance	Map ID	Page
ROBSON SALES CO	152 BEARD ST	SW 0 - 1/8 (0.024 mi.)	A5	12
BLUE STAR MECHANICAL REMOVAL C	*454 VAN BRUNT ST*	*SSW 0 - 1/8 (0.061 mi.)*	*F22*	*33*
VAN BRUNT STORES WAREHOUSE	*480 VAN BRUNT ST*	*SSW 0 - 1/8 (0.087 mi.)*	*40*	*55*
NYNEX	BEARD ST & RICHARD ST	SE 1/8 - 1/4 (0.128 mi.)	H49	72
REVERE SUGAR CORP	*280 RICHARDS ST*	*SSE 1/8 - 1/4 (0.133 mi.)*	*H51*	*77*
BARGE AUTO BODY INC	*34 COFFEY ST*	*ESE 1/8 - 1/4 (0.221 mi.)*	*N70*	*124*
H & R SHEET METAL CORP	*31 COFFEY ST*	*ESE 1/8 - 1/4 (0.224 mi.)*	*N74*	*138*
NYCDEP	DEWIGHT ST & BEARD ST	SE 1/8 - 1/4 (0.227 mi.)	79	153

E DESIGNATION: Lots designation with an ?E? on the Zoning Maps of the City of New York for potential hazardous material contamination, air and/or noise quality impacts.

A review of the E DESIGNATION list, as provided by EDR, and dated 06/18/2014 has revealed that there are 5 E DESIGNATION sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LOT 24,TAXBLOCK 603	43204 VAN BRUNT STREET	W 0 - 1/8 (0.004 mi.)	A3	9
LOT 29,TAXBLOCK 597	VAN BRUNT STREET	NE 0 - 1/8 (0.030 mi.)	C13	20
LOT 28,TAXBLOCK 597	VAN BRUNT STREET	NE 0 - 1/8 (0.030 mi.)	C14	21
LOT 23,TAXBLOCK 603	VAN BRUNT STREET	NE 0 - 1/8 (0.030 mi.)	C15	23

Lower Elevation	Address	Direction / Distance	Map ID	Page
LOT 26,TAXBLOCK 603	436 VAN BRUNT STREET	S 0 - 1/8 (0.017 mi.)	A4	11

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR US Hist Auto Stat: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 11 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	147 VAN DYKE ST	NNE 0 - 1/8 (0.029 mi.)	C12	20
Not reported	161 DIKEMAN ST	N 1/8 - 1/4 (0.164 mi.)	I57	100
Not reported	87 WOLCOTT ST	NE 1/8 - 1/4 (0.176 mi.)	J61	104
Not reported	64 SULLIVAN ST	NE 1/8 - 1/4 (0.229 mi.)	O82	156
Not reported	64 FERRIS ST	N 1/8 - 1/4 (0.248 mi.)	84	158

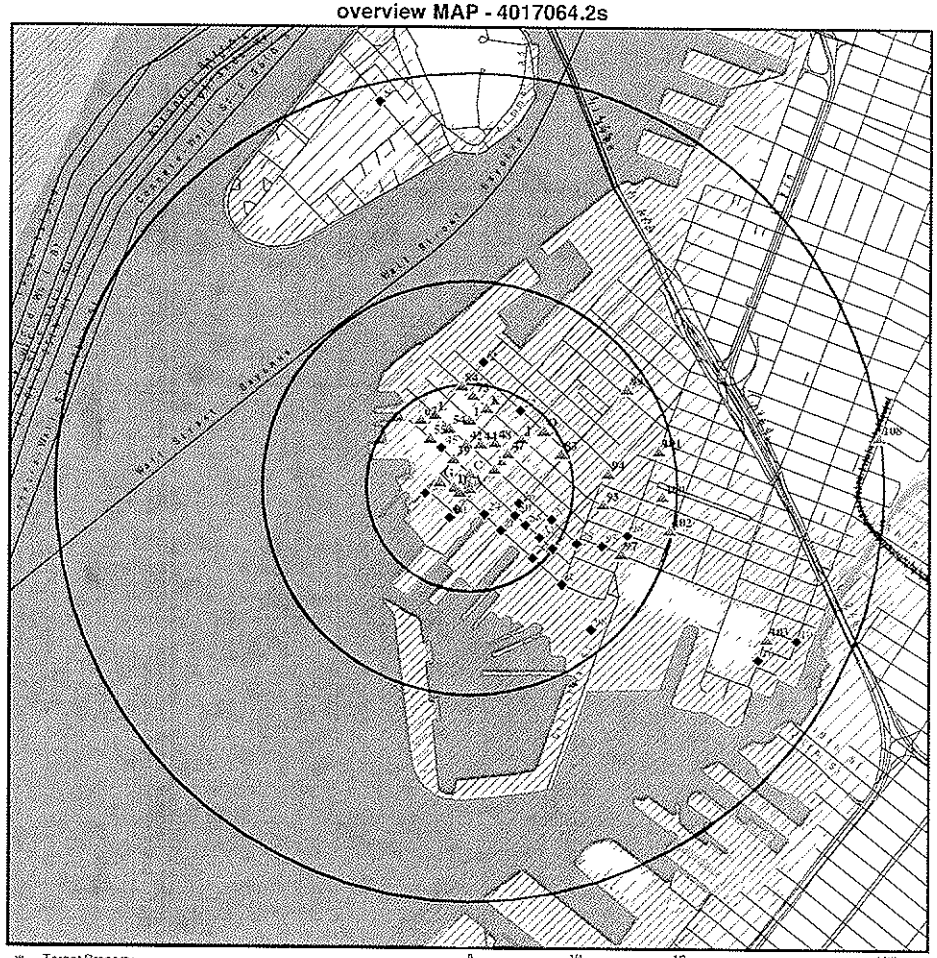
Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	152 BEARD ST	SW 0 - 1/8 (0.024 mi.)	A6	13
Not reported	154 BEARD ST	SW 0 - 1/8 (0.024 mi.)	A7	14
Not reported	69 VAN DYKE ST	ESE 1/8 - 1/4 (0.162 mi.)	56	99
Not reported	47 VAN DYKE ST	SE 1/8 - 1/4 (0.207 mi.)	M68	122
Not reported	34 COFFEY ST	ESE 1/8 - 1/4 (0.221 mi.)	N71	132
Not reported	27 VAN DYKE ST	SE 1/8 - 1/4 (0.249 mi.)	P86	164

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

Site Name	Database(s)
NYS DOT BIN 106539A	MANIFEST
BELL ATLANTIC-NY	MANIFEST
CON EDISON	MANIFEST
CON EDISON	MANIFEST
BP PRODUCTS OF NORTH AMERICA INC	MANIFEST
CONSOLIDATED EDISON	MANIFEST
CON EDISON	MANIFEST
CON EDISION - MH38210	RCRA NonGen / NLR, MANIFEST
NYCTA - 2ND AVE 128TH TO 116TH STR	RCRA-CESQG, MANIFEST
MTA NYCT - 30TH STREET YARD	RCRA NonGen / NLR, MANIFEST
NYSDOT BIN 2232000 D259670 P-X7598	RCRA-SQG, MANIFEST, MANIFEST
NYSDOT BIN 2067889	RCRA-LQG
NYSDOT BIN 1076750	RCRA-LQG
NYSDOT BIN 1076849	RCRA-LQG
NYSDOT BIN 2267380 D259670 P-X7598	RCRA NonGen / NLR
COFFEY STREET	ICIS, FINDS
EXIT 34	NY Spills
KINGS HIGHWAY MOBIL	NY Spills
BETW/AVE X &	NY Spills
205842; KINGS HWY	NY Spills

overview MAP - 4017064.2s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

0 1/4 1/2 1 Miles

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 430-432 Van Brunt Street ADDRESS: 430-432 VAN BRUNT ST Brooklyn NY 11231 LAT/LONG: 40.6756 / 74.0153	CLIENT: PT Consultants, Inc. CONTACT: Denis Cummings INQUIRY #: 4017064.2s DATE: July 25, 2014 8:38 am

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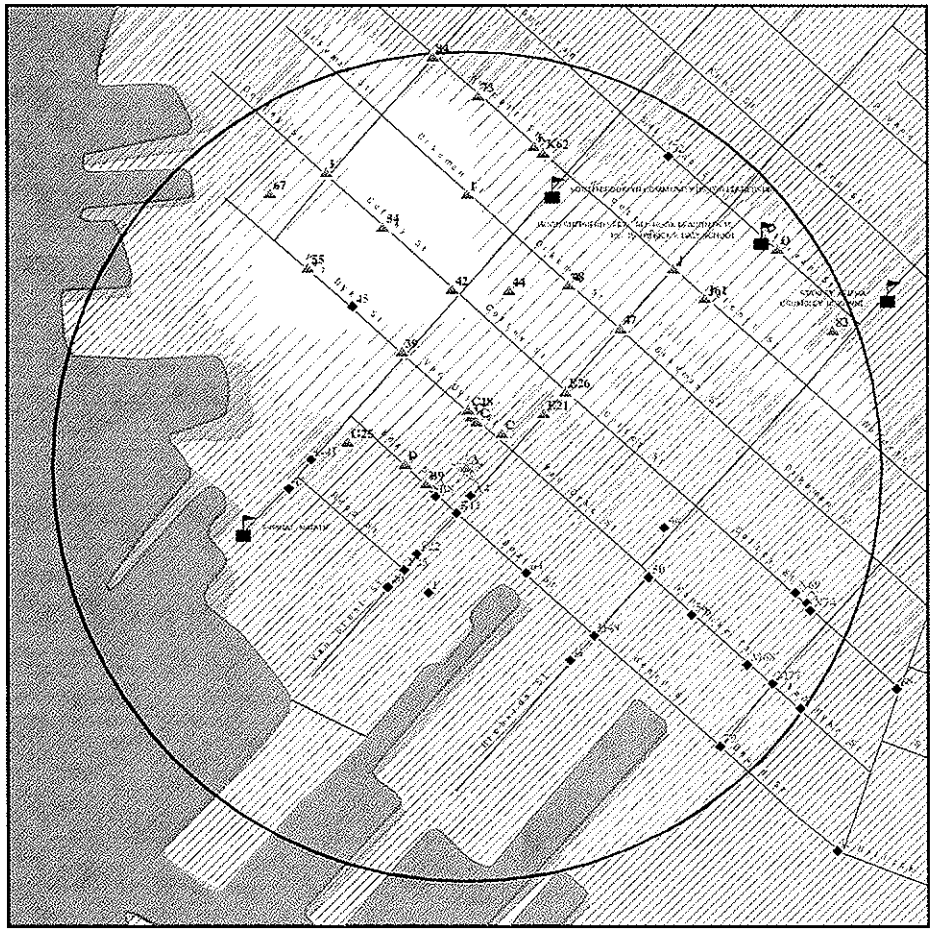
detail MAP - 4017064.2s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
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- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
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SITE NAME: 430-432 Van Brunt Street ADDRESS: 430-432 VAN BRUNT ST Brooklyn NY 11231 LAT/LONG: 40.6756 / 74.0153	CLIENT: PT Consultants, Inc. CONTACT: Denis Cummings INQUIRY #: 4017064.2s DATE: July 25, 2014 8:39 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		0	1	0	NR	NR	1
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	1	NR	NR	NR	1
RCRA-CESQG	0.250		2	1	NR	NR	NR	3
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP	1	NR	NR	NR	NR	NR	1
State- and tribal - equivalent CERCLIS								
SHWS	1.000		0	0	0	5	NR	5
VAPOR REOPENED	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	1	4	NR	NR	5
State and tribal leaking storage tank lists								
LTANKS	0.500		0	1	10	NR	NR	11
HIST LTANKS	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
State and tribal registered storage tank lists								
TANKS	0.250		0	0	NR	NR	NR	0
UST	0.250		1	6	NR	NR	NR	7
CBS UST	0.250		0	0	NR	NR	NR	0
MOSF UST	0.500		0	0	0	NR	NR	0
AST	0.250		2	4	NR	NR	NR	6
CBS AST	0.250		0	2	NR	NR	NR	2
MOSF AST	0.500		0	0	0	NR	NR	0
MOSF	0.500		0	0	0	NR	NR	0
CBS	0.250		0	2	NR	NR	NR	2
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS	0.500		0	0	1	NR	NR	1
INST CONTROL	0.500		0	0	1	NR	NR	1
RES DECL	0.125		0	NR	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	1	NR	NR	1
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
ERP	0.500		0	0	0	NR	NR	0
BROWNFIELDS	0.500		0	0	1	NR	NR	1
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
SWTIRE	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	1	NR	NR	1
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
DEL SHWS	1.000		0	0	0	1	NR	1
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
HIST UST	0.250		0	2	NR	NR	NR	2
HIST AST	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
LIENS	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
NY Spills	0.125	1	24	NR	NR	NR	NR	25
NY Hist Spills	0.125		0	NR	NR	NR	NR	0
SPILLS 80	0.125		0	NR	NR	NR	NR	0
SPILLS 90	0.125		1	NR	NR	NR	NR	1
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		5	12	NR	NR	NR	17
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		1	0	0	0	NR	1
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
HSWDS	0.500		0	0	0	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
MANIFEST	0.250		3	11	NR	NR	NR	14
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
SPDES	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
E DESIGNATION	0.125		5	NR	NR	NR	NR	5
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		3	8	NR	NR	NR	11
EDR US Hist Cleaners	0.250		0	0	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA HWS	TP		NR	NR	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID / Direction / Distance / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
A1 Target Property	**ROADWAY 430 VAN BRUNT ST BROOKLYN, NY**	**NY Spills**	**S102401990 N/A**

Site 1 of 7 in cluster A

Actual: 8 ft.

SPILLS:

Facility ID:	9607095
Facility Type:	ER
DER Facility ID:	166073
Site ID:	199524
DEC Region:	2
Spill Date:	9/4/1996
Spill Number/Closed Date:	9607095 / 9/5/1996
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	KATZ
Referred To:	Not reported
Reported to Dept:	9/4/1996
CID:	252
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Citizen
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	9/4/1996
Spill Record Last Update:	8/21/2003
Spiller Name:	UNKNOWN
Spiller Company:	UNKNOWN
Spiller Address:	UNKNOWN
Spiller City,St,Zip:	UNKNOWN, ZZ
Spiller Company:	999
Contact Name:	BETH CASPAR
Contact Phone:	(212) 727-8300
DEC Memo:	Not reported
Remarks:	commercial veh spilled unk amt motor oil onto street-subj thenput sand on spill and drove off

Material:

Site ID:	199524
Operable Unit ID:	1038238
Operable Unit:	01
Material ID:	346360
Material Code:	0015
Material Name:	Motor Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

ROADWAY (Continued) — **S102401990**

Tank Test:

A2
Target Property — **430 VAN BRUNT**
BROOKLYN, NY 11231

ERNS — **96506328**
N/A

Site 2 of 7 in cluster A

Actual:
8 ft.

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

A3
West
< 1/8
0.004 mi.
19 ft. — **LOT 24,TAXBLOCK 603**
43204 VAN BRUNT STREET
BROOKLYN, NY 11231

E DESIGNATION — **S108075252**
N/A

Site 3 of 7 in cluster A

Relative:
Higher

Actual:
8 ft.

E DESIGNATION:

Tax Lot(s):	24
E-No:	E-110
Effective Date:	1/30/2002
Satisfaction Date:	Not reported
Ceqr Number:	00DME013K
Ulurp Number:	020047 ZMK
Zoning Map No:	16a
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code:	BK
Community District:	306
Census Tract:	57
Census Block:	4004
School District:	15
City Council District:	38
Fire Company:	L101
Health Area:	38
Police Precinct:	076
Zone District 1:	M1-1/R5
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	MX-5
Special Purpose District2:	Not reported
All Components1:	M1-1/R5/MX-5
All Components2:	Not reported
Split Boundary Indicator.	N
Building Class:	V1
Land Use Category:	11
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	PACE, PAT
Lot Area:	000003600
Total Building Floor Area:	00000000000
Commercial Floor Area:	00000000000
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000

LOT 24,TAXBLOCK 603 (Continued) — **S108075252**

Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code4	
Number of Buildings:	00000
Number of Floors:	000.00
Residential Units:	00000
Non and Residential Units:	00000
Lot Frontage:	0040.00
Lot Depth:	0090.00
Building Frontage:	0000.00
Building Depth:	0000.00
Proximity Code:	0
Irregular Lot Code:	N
Lot Type:	5
Basement Type Grade:	5
Land Assessed Value:	00000025920
Total Assessed Value:	00000025920
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	0000
Year Built Code:	Not reported
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.00
Maximum Allowable Far:	01.25
Borough Code:	3
Borough Tax Block And Lot:	3006030024
Condominium Number:	00000
Census Tract 2.	0057
X Coordinate:	0979990
Y Coordinate:	0185413
Zoning Map:	16A
Sanborn Map:	301 019
Tax Map:	30207
E Designation No:	E-110
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

A4 South < 1/8 0.017 mi. 91 ft. — **LOT 26,TAXBLOCK 603**, **436 VAN BRUNT STREET**, **BROOKLYN, NY 11231** — **E DESIGNATION** — **S108075253** / **N/A**

Site 4 of 7 in cluster A

Relative: Lower / **Actual: 6 ft.**

E DESIGNATION:

Tax Lot(s):	26
E-No:	E-110
Effective Date:	1/30/2002
Satisfaction Date:	Not reported
Ceqr Number:	00DME013K
Ulurp Number:	020047 ZMK
Zoning Map No:	16a
Description:	Underground Gasoline Storage Tanks" Testing Protocol.
Borough Code:	BK
Community District:	306
Census Tract:	57
Census Block:	4004
School District:	15
City Council District:	38
Fire Company:	L101
Health Area:	38
Police Precinct:	076
Zone District 1:	M1-1/R5
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	MX-5
Special Purpose District2:	Not reported
All Components1:	M1-1/R5/MX-5
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	C0
Land Use Category:	02
Number of Easements:	0
Owner, Type of Code:	P
Owner Name:	KONOPSKI, KAZIMIERZ
Lot Area:	000002250
Total Building Floor Area:	00000005250
Commercial Floor Area:	00000000000
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code	7
Number of Buildings:	00001
Number of Floors:	003.50
Residential Units:	00003
Non and Residential Units:	00003
Lot Frontage:	0025.00
Lot Depth:	0090.00
Building Frontage:	0025.00
Building Depth:	0060.00
Proximity Code:	3
Irregular Lot Code:	N
Lot Type:	5

LOT 26,TAXBLOCK 603 (Continued) — **S108075253**

Basement Type Grade:	5
Land Assessed Value:	00000016695
Total Assessed Value:	00000016695
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	2005
Year Built Code:	Not reported
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0002.33
Maximum Allowable Far:	01.25
Borough Code:	3
Borough Tax Block And Lot:	3006030026
Condominium Number:	00000
Census Tract 2:	0057
X Coordinate:	0979986
Y Coordinate:	0185373
Zoning Map:	16A
Sanborn Map:	301 019
Tax Map:	30207
E Designation No:	E-110
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

A5 SW < 1/8 0.024 mi. 126 ft. — **ROBSON SALES CO**, **152 BEARD ST**, **BROOKLYN, NY 10003** — **MANIFEST** — **1009231752** / **N/A**

Site 5 of 7 in cluster A

Relative: Lower / **Actual: 7 ft.**

NY MANIFEST:

EPA ID:	NYP000785790
Country:	USA

Mailing Info:

Name:	ROBSON SALES CO
Contact:	ROBSON SALES CO
Address:	152 BEARD STREET
City/State/Zip:	BROOKLYN, NY 10003
Country:	USA
Phone:	212-624-7156

Document ID:	NYO3179025
Manifest Status:	Completed copy
Trans1 State ID:	NY2A-04
Trans2 State ID:	Not reported
Generator Ship Date:	840612
Trans1 Recv Date:	840612

ROBSON SALES CO (Continued) 1009231752

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	840612
Part A Recv Date:	840620
Part B Recv Date:	840627
Generator EPA ID:	NYP000785790
Trans1 EPA ID:	NYD980592471
Trans2 EPA ID:	Not reported
TSDF ID:	CTD072138969
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00800
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	Not reported
Specific Gravity:	100
Year:	84

A6
SW **152 BEARD ST** EDR US Hist Auto Stat 1015242061
< 1/8 **BROOKLYN, NY 11231** N/A
0.024 mi.
126 ft. **Site 6 of 7 in cluster A**

Relative: EDR Historical Auto Stations:
Lower

Name:	GEORGE AUTO CARE
Year:	1999
Address:	152 BEARD ST
Name:	GEORGE AUTO CARE
Year:	2000
Address:	152 BEARD ST
Name:	LENNYS AUTO CARE
Year:	2001
Address:	152 BEARD ST
Name:	LENNYS AUTO CARE
Year:	2002
Address:	152 BEARD ST
Name:	LENNYS AUTO CARE
Year:	2003
Address:	152 BEARD ST
Name:	LENNYS AUTO CARE
Year:	2010
Address:	152 BEARD ST

Actual:
7 ft.

A7
SW **154 BEARD ST** EDR US Hist Auto Stat 1015245086
< 1/8 **BROOKLYN, NY 11231** N/A
0.024 mi.
129 ft. **Site 7 of 7 in cluster A**

Relative: EDR Historical Auto Stations:
Lower

Name:	BIG FRANKS AUTO REPAIR
Year:	2000
Address:	154 BEARD ST
Name:	BIG FRANKS AUTO REPAIR
Year:	2003
Address:	154 BEARD ST
Name:	EUROTEC AUTO REPAIR
Year:	2011
Address:	154 BEARD ST

Actual:
7 ft.

B8 **HOME** NY Spills S112807984
SW **159 BEARD ST** N/A
< 1/8 **BROOKLYN, NY**
0.026 mi.
136 ft. **Site 1 of 3 in cluster B**

Relative: SPILLS:
Lower

Facility ID:	1212851
Facility Type:	ER
DER Facility ID:	431329
Site ID:	476009
DEC Region:	2
Spill Date:	11/30/2012
Spill Number/Closed Date:	1212851 / 3/29/2013
Spill Cause:	Storm
Spill Class:	Not reported
SWIS:	2401
Investigator:	Hurricane Sandy R2
Referred To:	Not reported
Reported to Dept:	11/30/2012
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	1
Date Entered In Computer:	11/30/2012
Spill Record Last Update:	12/7/2012
Spiller Name:	Not reported
Spiller Company:	STORM
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	EDNA MIELES
Contact Phone:	Not reported
DEC Memo:	This spill report was created for tracking purposes related to the Department's Hurricane Sandy emergency response efforts.11/30/12-Tim

Actual:
7 ft.

HOME (Continued) **S112807984**

Remarks: Demeo is responded to all pump out.12/1/12 Miller pumped out 275 gal inside tank dislodged during storm/tank needs to be pumped out

Material:
Site ID: 476009
Operable Unit ID: 1225848
Operable Unit: 01
Material ID: 2223173
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Gallons
Recovered: 275
Resource Affected: Not reported
Oxygenate: False

Tank Test:

B9 WSW < 1/8 0.027 mi. 140 ft. **SANOFI BEAUTE INC** **RCRA NonGen / NLR 1000789665**
158 BEARD ST ROOM S **FINDS NYD987011269**
BROOKLYN, NY 11231

Relative: Higher **Site 2 of 3 in cluster B**

Actual: 8 ft.

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: SANOFI BEAUTE INC
Facility address: 158 BEARD ST ROOM S
BROOKLYN, NY 11231
EPA ID: NYD987011269
Mailing address: PO BOX 7803 RARITAN CENTER
EDISON, NY 088187803
Contact: Not reported
Contact address: PO BOX 7803 RARITAN CENTER
EDISON, NY 088187803
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: SANOFI BEAUTE INC
Owner/operator address: 45 FERNWOOD AVE PO BOX 7803
EDISON, NJ 08818
Owner/operator country: US
Owner/operator telephone: (908) 417-0202
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: SANOFI BEAUTE INC

SANOFI BEAUTE INC (Continued) **1000789665**

Owner/operator address: 45 FERNWOOD AVE PO BOX 7803
EDISON, NJ 08818
Owner/operator country: US
Owner/operator telephone: (908) 417-0202
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: SANOFI BEAUTE INC
Classification: Not a generator, verified

Date form received by agency: 09/29/1992
Facility name: SANOFI BEAUTE INC
Classification: Not a generator, verified

Date form received by agency: 08/05/1992
Facility name: SANOFI BEAUTE INC
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110004493593

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

C10 NNE < 1/8 0.027 mi. 141 ft. — **ATLANTIC BC INC**, **145 VAN DYKE ST**, **BROOKLYN, NY 11231** — **RCRA NonGen / NLR**, **FINDS** — **1000153414**, **NYD068274356**

Site 1 of 8 in cluster C

Relative: Higher

Actual: 9 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	ATLANTIC BC INC
Facility address:	145 VAN DYKE ST BROOKLYN, NY 112311010
EPA ID:	NYD068274356
Mailing address:	VAN DYKE ST BROOKLYN, NY 11231
Contact:	Not reported
Contact address:	VAN DYKE ST BROOKLYN, NY 11231
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	Not reported
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	Not reported
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No

ATLANTIC BC INC (Continued) — **1000153414**

Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	01/01/2006
Facility name:	ATLANTIC BC INC
Classification:	Not a generator, verified
Date form received by agency:	07/08/1999
Facility name:	ATLANTIC BC INC
Classification:	Not a generator, verified
Date form received by agency:	06/07/1985
Facility name:	ATLANTIC BC INC
Classification:	Large Quantity Generator
Violation Status:	No violations found

Evaluation Action Summary:

Evaluation date:	07/22/1999
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	EPA
Evaluation date:	01/15/1991
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State

FINDS:

Registry ID: 110004366356

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

B11 SSW < 1/8 0.029 mi. 151 ft. — **NEW YORK BAY**, **BEARD ST/VAN BRUNT ST**, **BROOKLYN, NY** — **NY Spills** — **S102148708**, **N/A**

Site 3 of 3 in cluster B

Relative: Lower

Actual: 6 ft.

SPILLS:

Facility ID:	9407695
Facility Type:	ER
DER Facility ID:	154698
Site ID:	184914

NEW YORK BAY (Continued) **S102148708**

DEC Region:	2
Spill Date:	9/9/1994
Spill Number/Closed Date:	9407695 / 4/25/1997
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	MCTIBBE
Referred To:	Not reported
Reported to Dept:	9/9/1994
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Federal Government
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	10/25/1994
Spill Record Last Update:	5/27/1997
Spiller Name:	Not reported
Spiller Company:	REINAUER TRANS
Spiller Address:	1983 RICHMOND TERRACE
Spiller City,St,Zip:	SI, NY 10302-
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept. 2004 data translation this spill Lead_DEC Field was "TIBBE"CLAENED BY RP
Remarks:	DUCKS WERE COVERED IN BLACK-HAQZMAT NOTIFIED

Material:

Site ID:	184914
Operable Unit ID:	1005294
Operable Unit:	01
Material ID:	380695
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

C12 **EDR US Hist Auto Stat** **1015232545**
NNE **147 VAN DYKE ST** **N/A**
< 1/8 **BROOKLYN, NY 11231**
0.029 mi.
151 ft. **Site 2 of 8 in cluster C**

Relative:
Higher

Actual:
9 ft.

EDR Historical Auto Stations:

Name:	G & F AUTO COLLISION
Year:	1999
Address:	147 VAN DYKE ST
Name:	G & F AUTO COLLISION
Year:	2000
Address:	147 VAN DYKE ST

C13 **LOT 29,TAXBLOCK 597** **E DESIGNATION** **S108075256**
NE **VAN BRUNT STREET** **N/A**
< 1/8 **BROOKLYN, NY 11231**
0.030 mi.
156 ft. **Site 3 of 8 in cluster C**

Relative:
Higher

Actual:
8 ft.

E DESIGNATION:

Tax Lot(s):	29
E-No:	E-110
Effective Date:	1/30/2002
Satisfaction Date:	Not reported
Ceqr Number:	00DME013K
Ulurp Number:	020047 ZMK
Zoning Map No:	16a
Description:	Underground Gasoline Storage Tanks" Testing Protocol
Borough Code:	BK
Community District:	306
Census Tract:	57
Census Block:	3004
School District:	15
City Council District:	38
Fire Company:	L101
Health Area:	38
Police Precinct:	076
Zone District 1:	M1-1/R5
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	MX-5
Special Purpose District2:	Not reported
All Components1:	M1-1/R5/MX-5
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	V1
Land Use Category:	11
Number of Easements:	0
Owner, Type of Code:	P
Owner Name:	PACE, PAT
Lot Area:	000001725
Total Building Floor Area:	00000000000
Commercial Floor Area:	00000000000
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000

LOT 29,TAXBLOCK 597 (Continued) — **S108075256**

Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code4	
Number of Buildings:	00000
Number of Floors:	000.00
Residential Units:	00000
Non and Residential Units:	00000
Lot Frontage:	0025.00
Lot Depth:	0069.00
Building Frontage:	0000.00
Building Depth:	0000.00
Proximity Code:	0
Irregular Lot Code:	N
Lot Type:	3
Basement Type Grade:	5
Land Assessed Value:	00000011790
Total Assessed Value:	00000011790
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	0000
Year Built Code:	Not reported
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.00
Maximum Allowable Far:	01.25
Borough Code:	3
Borough Tax Block And Lot:	3005970029
Condominium Number:	00000
Census Tract 2:	0057
X Coordinate:	0980128
Y Coordinate:	0185531
Zoning Map:	16A
Sanborn Map:	301 019
Tax Map:	30207
E Designation No:	E-110
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

C14 **NE** **< 1/8** **0.030 mi.** **156 ft.**

LOT 28,TAXBLOCK 597
VAN BRUNT STREET
BROOKLYN, NY 11231

E DESIGNATION — **S108075255** **N/A**

Site 4 of 8 in cluster C

Relative: **Higher**
Actual: **8 ft.**

E DESIGNATION:

Tax Lot(s):	28
E-No:	E-110
Effective Date:	1/30/2002
Satisfaction Date:	Not reported

LOT 28,TAXBLOCK 597 (Continued) — **S108075255**

Ceqr Number:	00DME013K
Ulurp Number:	020047 ZMK
Zoning Map No:	16a
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code:	BK
Community District:	306
Census Tract:	57
Census Block:	3004
School District:	15
City Council District:	38
Fire Company:	L101
Health Area:	38
Police Precinct:	076
Zone District 1:	M1-1/R5
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	MX-5
Special Purpose District2:	Not reported
All Components1:	M1-1/R5/MX-5
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	V1
Land Use Category:	11
Number of Easements:	0
Owner, Type of Code:	P
Owner Name:	PACE, PAT
Lot Area:	000001725
Total Building Floor Area:	00000000000
Commercial Floor Area:	00000000000
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code4	
Number of Buildings:	00000
Number of Floors:	000.00
Residential Units:	00000
Non and Residential Units:	00000
Lot Frontage:	0025.00
Lot Depth:	0069.00
Building Frontage:	0000.00
Building Depth:	0000.00
Proximity Code:	0
Irregular Lot Code:	N
Lot Type:	5
Basement Type Grade:	5
Land Assessed Value:	00000011790
Total Assessed Value:	00000011790
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	0000
Year Built Code:	Not reported
Year Altered1:	0000
Year Altered2:	0000

LOT 28,TAXBLOCK 597 (Continued) S108075255

Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.00
Maximum Allowable Far:	01.25
Borough Code:	3
Borough Tax Block And Lot:	3005970028
Condominium Number:	00000
Census Tract 2:	0057
X Coordinate:	0980134
Y Coordinate:	0185560
Zoning Map:	16A
Sanborn Map:	301 019
Tax Map:	30207
E Designation No:	E-110
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

C15 **LOT 23,TAXBLOCK 603** **E DESIGNATION** **S108075251**
NE **VAN BRUNT STREET** **N/A**
< 1/8 **BROOKLYN, NY 11231**
0.030 mi.
156 ft. **Site 5 of 8 in cluster C**

Relative:
Higher

Actual:
8 ft.

E DESIGNATION:

Tax Lot(s):	23
E-No:	E-110
Effective Date:	1/30/2002
Satisfaction Date:	Not reported
Ceqr Number:	00DME013K
Ulurp Number:	020047 ZMK
Zoning Map No:	16a
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code:	BK
Community District:	306
Census Tract:	57
Census Block:	4004
School District:	15
City Council District:	38
Fire Company:	L101
Health Area:	38
Police Precinct:	076
Zone District 1:	M1-1/R5
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	MX-5
Special Purpose District2:	Not reported
All Components1:	M1-1/R5/MX-5
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	V1

LOT 23,TAXBLOCK 603 (Continued) S108075251

Land Use Category:	11
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	PACE, PAT
Lot Area:	000002250
Total Building Floor Area:	00000000000
Commercial Floor Area:	00000000000
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code4	
Number of Buildings:	00000
Number of Floors:	000.00
Residential Units:	00000
Non and Residential Units:	00000
Lot Frontage:	0025.00
Lot Depth:	0090.00
Building Frontage:	0000.00
Building Depth:	0000.00
Proximity Code:	0
Irregular Lot Code:	N
Lot Type:	5
Basement Type Grade:	5
Land Assessed Value:	00000016155
Total Assessed Value:	00000016155
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	0000
Year Built Code:	Not reported
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.00
Maximum Allowable Far:	01.25
Borough Code:	3
Borough Tax Block And Lot:	3006030023
Condominium Number:	00000
Census Tract 2:	0057
X Coordinate:	0980033
Y Coordinate:	0185421
Zoning Map:	16A
Sanborn Map:	301 019
Tax Map:	30207
E Designation No:	E-110
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

C16 North < 1/8 0.031 mi. 163 ft. — **149 VAN DYKE STREET (HURRICANE SANDY)** — **NY Spills** — **S112807481** / **N/A**
149 VAN DYKE STREET
RED HOOK, NY 11231

Site 6 of 8 in cluster C

Relative: Higher
Actual: 9 ft.

SPILLS:

Facility ID:	1212251
Facility Type:	ER
DER Facility ID:	430682
Site ID:	475396
DEC Region:	2
Spill Date:	10/29/2012
Spill Number/Closed Date:	1212251 / 11/13/2012
Spill Cause:	Storm
Spill Class:	Not reported
SWIS:	2401
Investigator:	Hurricane Sandy R2
Referred To:	Not reported
Reported to Dept:	11/16/2012
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	DEC
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	Not reported
Date Entered In Computer:	11/20/2012
Spill Record Last Update:	11/20/2012
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spiller Company:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	This spill report was created for tracking purposes related to the Department's Hurricane Sandy emergency response efforts.DEC Pumped out 10Gallons on 11/13/2012
Remarks:	Not reported

Material:

Site ID:	475396
Operable Unit ID:	1225231
Operable Unit:	01
Material ID:	2228883
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	10
Resource Affected:	Not reported
Oxygenate:	False

149 VAN DYKE STREET (HURRICANE SANDY) (Continued) — **S112807481**

Tank Test:

C17 North < 1/8 0.031 mi. 163 ft. — **149 VAN DYKE STREET (HURRICANE SANDY)** — **SPILLS 90** — **S112394976** / **N/A**
149 VAN DYKE STREET
RED HOOK, NY 11231

Site 7 of 8 in cluster C

Relative: Higher
Actual: 9 ft.

Spills:

Status:	CLOSED
Contact Name:	Not reported
Contact Phone:	Not reported
Site ID:	1212251
Secondary ID:	475396
Cross Street:	Not reported
County:	KINGS
Longitude:	0
Latitude:	0
Elevation:	Not reported

C18 North < 1/8 0.035 mi. 185 ft. — **JENMAR ELECTRIC SERVICE CORP** — **RCRA NonGen / NLR** — **1000890035**
138 VAN DYKE ST — **FINDS** — **NY0000229781**
BROOKLYN, NY 11231

Site 8 of 8 in cluster C

Relative: Higher
Actual: 9 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	JENMAR ELECTRIC SERVICE CORP
Facility address:	138 VAN DYKE ST BROOKLYN, NY 112311012
EPA ID:	NY0000229781
Mailing address:	VAN DYKE ST BROOKLYN, NY 11231
Contact:	Not reported
Contact address:	VAN DYKE ST BROOKLYN, NY 11231
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	HENNING LORGEN
Owner/operator address:	138 VAN DYKE ST BROOKLYN, NY 11231
Owner/operator country:	US
Owner/operator telephone:	(718) 852-4800
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported

JENMAR ELECTRIC SERVICE CORP (Continued) 1000890035

Owner/Op end date: Not reported

Owner/operator name: HENNING LORGEN
Owner/operator address: 138 VAN DYKE ST
BROOKLYN, NY 11231
Owner/operator country: US
Owner/operator telephone: (718) 852-4800
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: JENMAR ELECTRIC SERVICE CORP
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: JENMAR ELECTRIC SERVICE CORP
Classification: Not a generator, verified

Date form received by agency: 04/19/1994
Facility name: JENMAR ELECTRIC SERVICE CORP
Classification: Small Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 11/19/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

FINDS:

Registry ID: 110004314180

Environmental Interest/Information System

JENMAR ELECTRIC SERVICE CORP (Continued) 1000890035

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

D19 West < 1/8 0.038 mi. 198 ft. **VEHICLE 50512, HYDRAULIC LEAK** **NY Spills** **S107521538**
170 BEARD ST **N/A**
BROOKLYN, NY

Site 1 of 2 in cluster D

Relative: Higher
Actual: 9 ft.

SPILLS:
Facility ID: 0511224
Facility Type: ER
DER Facility ID: 307360
Site ID: 357332
DEC Region: 2
Spill Date: 12/27/2005
Spill Number/Closed Date: 0511224 / 3/24/2006
Spill Cause: Equipment Failure
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 2401
Investigator: GDBREEN
Referred To: Not reported
Reported to Dept: 12/27/2005
CID: 409
Water Affected: Not reported
Spill Source: Passenger Vehicle
Spill Notifier: Responsible Party
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 12/27/2005
Spill Record Last Update: 3/24/2006
Spiller Name: ERT DESK MIKE DAUGHTERY
Spiller Company: CON EDISON
Spiller Address: 170 BEARD ST
Spiller City,St,Zip: BROOKLYN, NY
Spiller Company: 999
Contact Name: ERT DESK MIKE DAUGHTERY
Contact Phone: (212) 580-8383
DEC Memo: 162350. 12/27/2005 09:01 HRS K. SMITH #74498 OGS O/H REPORTS THAT APPROX 2 GALS OF HYDRAULIC OIL LEAKED FROM VEH# 50512 ONTO COBBLESTONE IN F/O 170 BEARD ST. THIS OCCURED WHILE PERFORMING AN O/H SWITCH MOVE ON ACCT# C3417. THERE WAS NO SMOKE, FIRE, OR INJURIES RELATED TO THE SPILL, NOR WERE ANY SEWERS, WATERWAYS, OR PRIVATE PROPERTY AFFECTED. THE CAUSE OF THE SPILL WAS A BURST HYDRAULIC HOSE AND TRANSPORTATION HAS BEEN NOTIFIED. THE SPILL HAS BEEN CONTAINED WITH BALONEYS AND IS IN THE PROCESS OF BEING CLEANED WITH ABSORBENT. AN ENV CREW WAS REQUESTED FOR ADDITIONAL ABSORBENT AND TO ASSIST IN THE CLEANUP, AND A CREW WAS DISPATCHED. UPDATES TO FOLLOW J

VEHICLE 50512, HYDRAULIC LEAK (Continued) **S107521538**

Remarks: ANDERSONUPDATE 12/27/2005 10:40 HRS AS PER ENV SUPV D. LICHTENSTEIN THE TRUCK NEEDS TO BE MOVED BEFORE PROPER CLEANUP CAN BE DONE AND TRANSPORTATION IS NEEDED FOR THAT, INCIDENT TO BE REMOVED FROM 2 HOUR PROGRAM. J ANDERSON3/24/06This spill is being closed based on report in eDocs link. (SKA) has been contained and clean up in process. VECHICLE 50512. NO TO FIVE QUESTIONS. CONEDa#162350

Material:

Site ID:	357332
Operable Unit ID:	1114607
Operable Unit:	01
Material ID:	2104675
Material Code:	0010
Material Name:	Hydraulic Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

D20 West < 1/8 0.039 mi. 204 ft. **NECHANAH & RAFAEL, LLC** **UST U001831961**
175 BEARD STREET **N/A**
BROOKLYN, NY 11231

Site 2 of 2 in cluster D

Relative: Higher

Actual: 9 ft.

UST:

Id/Status:	2-083011 / Unregulated
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	2008-06-18
UTM X:	583165.24274999998
UTM Y:	4503205.1051899996
Site Type:	Other

Affiliation Records:

Site Id:	1836
Affiliation Type:	Facility Owner
Company Name:	ROBERT DELIGDISH
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	115-01 CURZON ROAD
Address2:	Not reported
City:	RICHMOND HILL
State:	NY
Zip Code:	11418
Country Code:	001
Phone:	(718) 805-4950
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT

NECHANAH & RAFAEL, LLC (Continued) **U001831961**

Date Last Modified:	3/4/2004

Site Id:	1836
Affiliation Type:	Mail Contact
Company Name:	DELIGH INDUSTRIES, INC.
Contact Type:	Not reported
Contact Name:	MRS. TOBY DELIGDISH
Address1:	P.O. BOX 310-154
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11231-0154
Country Code:	001
Phone:	(718) 875-1511
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	1836
Affiliation Type:	On-Site Operator
Company Name:	NECHANAH & RAFAEL, LLC
Contact Type:	Not reported
Contact Name:	ROBERT DELIGDISH
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 875-1511
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	1836
Affiliation Type:	Emergency Contact
Company Name:	ROBERT DELIGDISH
Contact Type:	Not reported
Contact Name:	ROBERT DELIGDISH
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 805-4950
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank ID:	3052

NECHANAH & RAFAEL, LLC (Continued) U001831961

Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	2000
Install Date:	09/01/1976
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	01
Date Test:	11/01/1987
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
I05 - Overfill - Vent Whistle
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None

E21 NE < 1/8 0.057 mi. 300 ft. **VACANT LOT** **412 VAN BRUNT ST** **BROOKLYN, NY** — NY Spills S103484395 N/A

Site 1 of 2 in cluster E

Relative: Higher

Actual: 8 ft.

SPILLS:

Facility ID:	9807182
Facility Type:	ER
DER Facility ID:	63305
Site ID:	66068
DEC Region:	2
Spill Date:	9/11/1998
Spill Number/Closed Date:	9807182 / 10/7/1998
Spill Cause:	Deliberate
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	9/11/1998
CID:	252
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False

VACANT LOT (Continued) S103484395

UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	9/11/1998
Spill Record Last Update:	11/16/1998
Spiller Name:	UNK
Spiller Company:	VACANT LOT
Spiller Address:	412 VAN BRUNT ST
Spiller City,St,Zip:	REDHOOK BROOKLYN, ZZ
Spiller Company:	001
Contact Name:	UNK
Contact Phone:	(000) 000-0000
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"
Remarks:	CALLER STATES POSSIBLY AN ILLEGAL AUTO REPAIR BUSINESS HAS BEEN SET UP ON VACANT PROPERTY-SUBJECTS WORKING ON CARS DUMPING WASTE MATERIALS ONTO LAND. NOTIFIER WISHES TO REMAIN ANONYMOUS.

Material:

Site ID:	66068
Operable Unit ID:	1068261
Operable Unit:	01
Material ID:	318292
Material Code:	0015
Material Name:	Motor Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False
Site ID:	66068
Operable Unit ID:	1068261
Operable Unit:	01
Material ID:	318293
Material Code:	0022
Material Name:	Waste Oil/Used Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

F22 SSW < 1/8 0.061 mi. 322 ft. **BLUE STAR MECHANICAL REMOVAL CO** **RCRA NonGen / NLR** **1004757925**
454 VAN BRUNT ST **FINDS** **NYD986964039**
BROOKLYN, NY **MANIFEST**

Site 1 of 14 in cluster F

Relative: Lower

Actual: 5 ft.

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: BLUE STAR MECHANICAL REMOVAL CO
Facility address: 454 VAN BRUNT ST
BROOKLYN, NY 112310013
EPA ID: NYD986964039
Mailing address: VAN BRUNT ST
BROOKLYN, NY 112310013
Contact: BOB ZURER
Contact address: VAN BRUNT ST
BROOKLYN, NY 112310013
Contact country: US
Contact telephone: (718) 643-0878
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: BOB ZURER
Owner/operator address: 454 VAN BRUNT ST
BROOKLYN, NY 11231
Owner/operator country: US
Owner/operator telephone: (718) 643-0878
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: BOB ZURER
Owner/operator address: 454 VAN BRUNT ST
BROOKLYN, NY 11231
Owner/operator country: US
Owner/operator telephone: (718) 643-0878
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No

BLUE STAR MECHANICAL REMOVAL CO (Continued) **1004757925**

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: BLUE STAR MECHANICAL REMOVAL CO
Classification: Not a generator, verified

Date form received by agency: 07/09/1991
Facility name: BLUE STAR MECHANICAL REMOVAL CO
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110004473338

Environmental Interest/Information System
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NY MANIFEST:
EPA ID: NYD986964039
Country: USA

Mailing Info:
Name: BLUE STAR MECHANICAL REMOVAL CORP
Contact: JOHN BUCKLEY
Address: 454 VAN BRUNT STREET
City/State/Zip: BROOKLYN, NY 11231
Country: USA
Phone: 718-643-0878

Document ID: NYB2874978
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: 1165AAOK
Trans2 State ID: Not reported
Generator Ship Date: 910522
Trans1 Recv Date: 910522
Trans2 Recv Date: Not reported
TSD Site Recv Date: 910522
Part A Recv Date: 910802
Part B Recv Date: 910805
Generator EPA ID: NYD986964039
Trans1 EPA ID: OKD981514474
Trans2 EPA ID: Not reported
TSDF ID: PAD981113749
Waste Code: B005 - PCB ARTICLES WITH 500 PPM OR > PCB
Quantity: 02822

BLUE STAR MECHANICAL REMOVAL CO (Continued) 1004757925

Units:	K - Kilograms (2.2 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	91

Document ID:	NYB1918242
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	1165AAOK
Trans2 State ID:	Not reported
Generator Ship Date:	910522
Trans1 Recv Date:	910522
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	910522
Part A Recv Date:	910808
Part B Recv Date:	910805
Generator EPA ID:	NYD986964039
Trans1 EPA ID:	OKD981514474
Trans2 EPA ID:	Not reported
TSDF ID:	PAD981113749
Waste Code:	B006 - PCB TRANSFORMERS WITH 500 PPM OR > PCB
Quantity:	08160
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00479
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	TP - Tanks, portable
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	91

F23 SSW < 1/8 0.073 mi. 386 ft. — **REED ST / VAN FRONT ST**, **REED ST / VAN FRONT ST**, **BROOKLYN, NY** — **NY Spills** **S102146579** N/A

Site 2 of 14 in cluster F

Relative: Lower **Actual: 4 ft.**

SPILLS:

Facility ID:	9302993
Facility Type:	ER
DER Facility ID:	244176
Site ID:	302218
DEC Region:	2
Spill Date:	6/4/1993
Spill Number/Closed Date:	9302993 / 2/15/1995
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	GUTIERREZ
Referred To:	Not reported

REED ST / VAN FRONT ST (Continued) S102146579

Reported to Dept:	6/5/1993
CID:	Not reported
Water Affected:	LOWER NY BAY
Spill Source:	Unknown
Spill Notifier:	Local Agency
Cleanup Ceased:	2/15/1995
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	3/7/1994
Spill Record Last Update:	1/17/1996
Spiller Name:	Not reported
Spiller Company:	DEP
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	PUMP FAILURE 0.28 MGD BYPASS FROM 8:30 AM TO 6/PM.

Material:

Site ID:	302218
Operable Unit ID:	985008
Operable Unit:	01
Material ID:	400092
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

---

24 SSE < 1/8 0.073 mi. 388 ft. — **AHAVA FOOD CORP**, **118 BEARD STREET**, **BROOKLYN, NY 11231** — **AST** **A100300895** N/A

Relative: Lower **Actual: 1 ft.**

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-607814
Program Type:	PBS
UTM X:	583281
UTM Y:	4503114
Expiration Date:	2012-06-06
Site Type:	Manufacturing (Other than Chemical)/Processing

AHAVA FOOD CORP (Continued) A100300895

Affiliation Records:

Site Id:	29666
Affiliation Type:	Facility Owner
Company Name:	AHAVA FOOD CORP
Contact Type:	CONTROLLER
Contact Name:	RUBEN BEITYAKOV
Address1:	118 BEARD STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11231
Country Code:	001
Phone:	(718) 243-0400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	3/5/2007

Site Id:	29666
Affiliation Type:	Mail Contact
Company Name:	AHAVA FOOD CORP
Contact Type:	Not reported
Contact Name:	MOSHE BANAYAN
Address1:	118 BEARD STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11231
Country Code:	001
Phone:	(718) 243-0400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	3/5/2007

Site Id:	29666
Affiliation Type:	On-Site Operator
Company Name:	AHAVA FOOD CORP
Contact Type:	Not reported
Contact Name:	AHAVA FOOD CORP
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 234-0400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	3/5/2007

Site Id:	29666
Affiliation Type:	Emergency Contact
Company Name:	AHAVA FOOD CORP
Contact Type:	Not reported
Contact Name:	MOSHE BANAYAN

AHAVA FOOD CORP (Continued) A100300895

Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(347) 242-6271
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	3/5/2007

Tank Info:

Tank Number:	0001
Tank Id:	63558
Material Code:	0008
Common Name of Substance:	Diesel

Equipment Records:

D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
A01 - Tank Internal Protection - Epoxy Liner
I05 - Overfill - Vent Whistle
G03 - Tank Secondary Containment - Vault (w/o access)
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/2002
Capacity Gallons:	1000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Material Name:	Diesel

Tank Number:	0002
Tank Id:	63559
Material Code:	0008
Common Name of Substance:	Diesel

Equipment Records:

G03 - Tank Secondary Containment - Vault (w/o access)
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None

AHAVA FOOD CORP (Continued) — **A100300895**

A01 - Tank Internal Protection - Epoxy Liner
I05 - Overfill - Vent Whistle
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/2002
Capacity Gallons:	1000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Material Name:	Diesel

G25 WNW < 1/8 0.073 mi. 388 ft. — **ATL BASIN IRON WORKS** — **FUDS** — **1007211612** / **N/A**

, NY

Site 1 of 2 in cluster G

Relative: Higher

Actual: 9 ft.

FUDS:

Federal Facility ID:	NY9799F1301
FUDS #:	C02NY0969
INST ID:	59204
Facility Name:	ATL BASIN IRON WORKS
City:	Not reported
State:	NY
EPA Region:	02
County:	Not reported
Congressional District:	12
US Army District:	New England District (NAE)
Fiscal Year:	2012
Telephone:	978-318-8238
NPL Status:	Not Listed
RAB:	Not reported
CTC:	249.8000
Current Owner:	State Government
Current Prog:	Not reported
Future Prog:	Not reported
Acreage:	Not reported
Description:	The 10.5-acre Atlantic Basin Iron Works is located in Brooklyn, New York. It was situated in the Erie Basin, adjacent to Conover Street and below Van Dyke Street. The Navy used the site as a shipyard. Abandoned tanks are present. Vehicles are currently stored on site.
History:	Between 1941 and 1942, the government obtained 10.50 acres fee by declaration of taking. On 25 October 1958, the General Services Administration accepted care of the site. In 1960, it conveyed the site to the New York/New Jersey Port Authority, which is the current owner.
Latitude:	40.675701
Longitude:	-74.017899

E26 NE < 1/8 0.075 mi. 396 ft. — **CON EDISON MANHOLE: 43857** — **RCRA-CESQG** — **1016149659** / **NYP004283255**

COFFEY ST & VAN BRUNT
BROOKLYN, NY 11202

Site 2 of 2 in cluster E

Relative: Higher

Actual: 9 ft.

RCRA-CESQG:

Date form received by agency:	01/14/2013
Facility name:	CON EDISON MANHOLE: 43857
Facility address:	COFFEY ST & VAN BRUNT BROOKLYN, NY 11202
EPA ID:	NYP004283255
Mailing address:	IRVING PL, RM 828 NEW YORK, NY 10003
Contact:	ANDREW DEPIPPO
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(718) 802-5650
Contact email:	Not reported
EPA Region:	02
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

F27 SSW < 1/8 0.080 mi. 421 ft. — **VAN BRUNT PUMP STA/BKLYN**, **VAN BRUNT AVENUE**, **NEW YORK CITY, NY** — **NY Spills** — **S102141631** / **N/A**

Site 3 of 14 in cluster F

Relative: Lower

Actual: 2 ft.

SPILLS:

Facility ID:	9004969
Facility Type:	ER
DER Facility ID:	249478
Site ID:	308910
DEC Region:	2
Spill Date:	8/3/1990
Spill Number/Closed Date:	9004969 / 2/15/1995
Spill Cause:	Equipment Failure
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	MANDALA
Referred To:	Not reported
Reported to Dept:	8/4/1990
CID:	Not reported
Water Affected:	UPPER NEW YORK BAY
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Responsible Party
Cleanup Ceased:	2/15/1995
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	8/8/1990
Spill Record Last Update:	2/16/1995
Spiller Name:	Not reported
Spiller Company:	NYCDEP
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	PUMP FAILURE. PUMPS WERE FIXED. NYCDEP CLAIMS BYPASS WILL NOT HEAD UPSTREAM.

Material:

Site ID:	308910
Operable Unit ID:	942626
Operable Unit:	01
Material ID:	436042
Material Code:	0062A
Material Name:	RAW SEWAGE
Case No.:	Not reported
Material FA:	Other
Quantity:	-1
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

VAN BRUNT PUMP STA/BKLYN (Continued) — **S102141631**

Tank Test:

F28 SSW < 1/8 0.080 mi. 421 ft. — **VAN VRONT PUMP STA.**, **VAN VRONT PUMP STA.**, **BROOKLYN, NY** — **NY Spills** — **S102147332** / **N/A**

Site 4 of 14 in cluster F

Relative: Lower

Actual: 2 ft.

SPILLS:

Facility ID:	9310156
Facility Type:	ER
DER Facility ID:	231152
Site ID:	285043
DEC Region:	2
Spill Date:	11/20/1993
Spill Number/Closed Date:	9310156 / 2/15/1995
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	SPEDES UNIT
Referred To:	SPEDES UNIT
Reported to Dept:	11/20/1993
CID:	Not reported
Water Affected:	LOWER NY HARBOR
Spill Source:	Unknown
Spill Notifier:	Responsible Party
Cleanup Ceased:	2/15/1995
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	11/23/1993
Spill Record Last Update:	2/15/1995
Spiller Name:	Not reported
Spiller Company:	DEP
Spiller Address:	84 AVE V
Spiller City,St,Zip:	NY, NY
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept. 2004 data translation this spill Lead_DEC Field was "SPDES/MARTINKAT"10/10/95. This is additional information about material spilled from the translation of the old spill file: .29 MG. RAW SEWAGE.
Remarks:	BROKEN HOSE CAUSED PUMP TO FEIL - NO ACTIONS TAKEN - NO OTHER CALLED NCB.

Material:

Site ID:	285043
Operable Unit ID:	991857
Operable Unit:	01
Material ID:	392786
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported

VAN VRONT PUMP STA. (Continued) S102147332

Material FA:	Petroleum
Quantity:	0
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test.

F29 SSW < 1/8 0.080 mi. 421 ft. **VAN BRUNT ST./B'KLYN**
VAN BRUNT ST.
NEW YORK CITY, NY
NY Spills **S102144762** **N/A**

Site 5 of 14 in cluster F

Relative: Lower
Actual: 2 ft.

SPILLS:

Facility ID:	8704954
Facility Type:	ER
DER Facility ID:	166605
Site ID:	200217
DEC Region:	2
Spill Date:	9/11/1987
Spill Number/Closed Date:	8704954 / 9/14/1987
Spill Cause:	Equipment Failure
Spill Class:	Not reported
SWIS:	2401
Investigator:	UNASSIGNED
Referred To:	Not reported
Reported to Dept:	9/14/1987
CID:	Not reported
Water Affected:	LOWER N.Y. BAY
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Responsible Party
Cleanup Ceased:	9/14/1987
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	9/16/1987
Spill Record Last Update:	10/12/1988
Spiller Name:	Not reported
Spiller Company:	NYCDEP
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was " " Not reported
Remarks:	FLOW RATE 0.36MGD.

Material:

Site ID:	200217
Operable Unit ID:	911303
Operable Unit:	01
Material ID:	467564

VAN BRUNT ST./B'KLYN (Continued) S102144762

Material Code:	0062A
Material Name:	RAW SEWAGE
Case No.:	Not reported
Material FA:	Other
Quantity:	0
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test.

F30 SSW < 1/8 0.080 mi. 421 ft. **VAN BRUNT ST PUMP STATION**
VAN BRUNT ST
BROOKLYN, NY
NY Spills **S102240502** **N/A**

Site 6 of 14 in cluster F

Relative: Lower
Actual: 2 ft.

SPILLS:

Facility ID:	9605151
Facility Type:	ER
DER Facility ID:	228705
Site ID:	281686
DEC Region:	2
Spill Date:	7/20/1996
Spill Number/Closed Date:	9605151 / 7/22/1996
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	JMKRIMGO
Referred To:	Not reported
Reported to Dept:	7/20/1996
CID:	322
Water Affected:	UPPER NY BAY
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	7/20/1996
Spill Record Last Update:	9/19/1996
Spiller Name:	Not reported
Spiller Company:	VAN BRUNT ST PUMP STATION
Spiller Address:	VAN BRUNT ST
Spiller City,St,Zip:	BROOKLYN, ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KRIMGOLD"
Remarks:	PUMP FAILURE - STILL ONGOING AT THIS TIME * * * CALL BACK AT 1800- SPILL ENDED AT 1430 AMT SPILLED .047 MILLION GALLONS

VAN BRUNT ST PUMP STATION (Continued) **S102240502**

Material:

Site ID:	281686
Operable Unit ID:	1036104
Operable Unit:	01
Material ID:	347906
Material Code:	0062A
Material Name:	RAW SEWAGE
Case No.:	Not reported
Material FA:	Other
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

F31 SSW < 1/8 0.080 mi. 421 ft. **VAN BRUNT PUMP STA.** **VAN BRUNT PUMP STA.** **BROOKLYN, NY** — **NY Spills** **S102147789** **N/A**

Relative: Lower **Actual: 2 ft.**

Site 7 of 14 in cluster F

SPILLS:

Facility ID:	9313665
Facility Type:	ER
DER Facility ID:	75997
Site ID:	82425
DEC Region:	2
Spill Date:	2/21/1994
Spill Number/Closed Date:	9313665 / 9/5/1995
Spill Cause:	Unknown
Spill Class:	Not reported
SWIS:	2401
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	2/21/1994
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Other
Cleanup Ceased:	9/5/1995
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	5/26/1994
Spill Record Last Update:	9/5/1995
Spiller Name:	Not reported
Spiller Company:	NYC DEP
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported

VAN BRUNT PUMP STA. (Continued) **S102147789**

DEC Memo:	Prior to Sept. 2004 data translation this spill Lead_DEC Field was "AUSTIN"
Remarks:	SPDES

Material:

Site ID:	82425
Operable Unit ID:	992118
Operable Unit:	01
Material ID:	389037
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

F32 SSW < 1/8 0.080 mi. 421 ft. **BUTTERMILK CHANNEL** **VAN BRUNT PUMP STATION** **RED HOOK, NY** — **NY Spills** **S102180141** **N/A**

Relative: Lower **Actual: 2 ft.**

Site 8 of 14 in cluster F

SPILLS:

Facility ID:	9509026
Facility Type:	ER
DER Facility ID:	275035
Site ID:	305678
DEC Region:	2
Spill Date:	10/22/1995
Spill Number/Closed Date:	9509026 / 10/23/1995
Spill Cause:	Equipment Failure
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	MMMULQUE
Referred To:	Not reported
Reported to Dept:	10/22/1995
CID:	312
Water Affected:	BUTTERMILK CHANNEL
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	10/22/1995
Spill Record Last Update:	11/6/1995
Spiller Name:	Not reported
Spiller Company:	SAME

BUTTERMILK CHANNEL (Continued) **S102180141**

Spiller Address: Not reported
Spiller City,St,Zip: NN
Spiller Company: 999
Contact Name: CALLER
Contact Phone: Not reported
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MULQUEEN"
Remarks: PUMP FAILED CAUSING A BY-PASS THAT IS STILL GOING ON - UNK QTY THATHAS SPILLED INTO THE CHANNEL - ENDED AT 1530

Material:
Site ID: 305678
Operable Unit ID: 1019598
Operable Unit: 01
Material ID: 359989
Material Code: 0062A
Material Name: RAW SEWAGE
Case No.: Not reported
Material FA: Other
Quantity: 40000
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

F33 SSW < 1/8 0.080 mi. 421 ft. **VAN BRUNT PUMP STATION**
VAN BRUNT & REED ST
BROOKLYN, NY
NY Spills **S102148982**
N/A

Site 9 of 14 in cluster F

Relative: Lower
Actual: 2 ft.

SPILLS:
Facility ID: 9410731
Facility Type: ER
DER Facility ID: 90360
Site ID: 102004
DEC Region: 2
Spill Date: 11/11/1994
Spill Number/Closed Date: 9410731 / 11/15/1994
Spill Cause: Equipment Failure
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken
SWIS: 2401
Investigator: SMMARTIN
Referred To: Not reported
Reported to Dept: 11/11/1994
CID: Not reported
Water Affected: NY HARBOR UPPER BAY
Spill Source: Institutional, Educational, Gov., Other
Spill Notifier: Responsible Party
Cleanup Ceased: 11/15/1994
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False

VAN BRUNT PUMP STATION (Continued) **S102148982**

Remediation Phase: 0
Date Entered In Computer: 12/12/1994
Spill Record Last Update: 9/30/2004
Spiller Name: Not reported
Spiller Company: NYC DEP
Spiller Address: 84TH ST & AVENUE "V"
Spiller City,St,Zip: BROOKLYN, NY
Spiller Company: 001
Contact Name: Not reported
Contact Phone: Not reported
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MARTINKAT"
Remarks: DISCHARGE LINE BROKE -BYPASSED STATION-SPILL INTO BAY REPAIRING LINE NO FURTHER ACTIONS.

Material:
Site ID: 102004
Operable Unit ID: 1008609
Operable Unit: 01
Material ID: 376598
Material Code: 0062A
Material Name: RAW SEWAGE
Case No.: Not reported
Material FA: Other
Quantity: 0
Units: Not reported
Recovered: No
Resource Affected: Not reported
Oxygenate: False
Site ID: 102004
Operable Unit ID: 1008609
Operable Unit: 01
Material ID: 376597
Material Code: 0066A
Material Name: UNKNOWN PETROLEUM
Case No.: Not reported
Material FA: Petroleum
Quantity: 12000
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test.

F34 SSW < 1/8 0.080 mi. 421 ft. **VAN BRUNT PUMP STATION**
VAN BRUNT PUMP STATION
BROOKLYN, NY
NY Spills **S102148581**
N/A

Site 10 of 14 in cluster F

Relative: Lower
Actual: 2 ft.

SPILLS:
Facility ID: 9406207
Facility Type: ER
DER Facility ID: 246918
Site ID: 305677
DEC Region: 2

VAN BRUNT PUMP STATION (Continued) **S102148581**

Spill Date:	8/6/1994
Spill Number/Closed Date:	9406207 / 8/6/1994
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	SMMARTIN
Referred To:	Not reported
Reported to Dept:	8/6/1994
CID:	Not reported
Water Affected:	MILLBROOK CREEK
Spill Source:	Institutional, Educational, Gov , Other
Spill Notifier:	Affected Persons
Cleanup Ceased:	8/6/1994
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	10/19/1994
Spill Record Last Update:	9/30/2004
Spiller Name:	Not reported
Spiller Company:	VAN BRUNT PUMP STATION
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MARTINKAT"10/10/95: This is additional information about material spilled from the translation of the old spill file: RAW SEWAGE .0117MG.
Remarks:	PUMP FAILURE -RESET PUMPS AND ADJUST FLOATS-NCB- REFER TO SPDES

Material:

Site ID:	305677
Operable Unit ID:	1000350
Operable Unit:	01
Material ID:	379256
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

F35
SSW
< 1/8
0.080 mi.
421 ft.

VAN BRUNT ST PUMP STATION
READE STREET & VAN BRUNT
NEW YORK CITY, NY

NY Spills **S102145317**
N/A

Site 11 of 14 in cluster F

Relative:
Lower

Actual:
2 ft.

SPILLS:

Facility ID:	8900240
Facility Type:	ER
DER Facility ID:	95824
Site ID:	109049
DEC Region:	2
Spill Date:	4/9/1989
Spill Number/Closed Date:	8900240 / 4/9/1989
Spill Cause:	Unknown
Spill Class:	Not reported
SWIS:	2401
Investigator:	MANDALA
Referred To:	Not reported
Reported to Dept:	4/9/1989
CID:	Not reported
Water Affected:	UPPER NY BAY
Spill Source:	Commercial/Industrial
Spill Notifier:	Local Agency
Cleanup Ceased:	4/9/1989
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	4/18/1989
Spill Record Last Update:	9/30/2004
Spiller Name:	Not reported
Spiller Company:	NYCDEP
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	SENDING CREW TO DETERMINE WHAT HAPPENED.

Material:

Site ID:	109049
Operable Unit ID:	926644
Operable Unit:	01
Material ID:	567915
Material Code:	0062A
Material Name:	RAW SEWAGE
Case No.:	Not reported
Material FA:	Other
Quantity:	-1
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

F36 SSW < 1/8 0.080 mi. 421 ft. **VAN BROWN ST. & READ ST.**
VAN BROWN ST. & READ ST.
BROOKLYN, NY
NY Spills **S103560413**
N/A

Site 12 of 14 in cluster F

Relative: Lower
Actual: 2 ft.

SPILLS:

Facility ID:	9210558
Facility Type:	ER
DER Facility ID:	142877
Site ID:	169714
DEC Region:	2
Spill Date:	12/11/1992
Spill Number/Closed Date:	9210558 / 2/15/1995
Spill Cause:	Other
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response, Willing Responsible Party, Corrective action taken.
SWIS:	2401
Investigator:	FIFOLT
Referred To:	Not reported
Reported to Dept:	12/13/1992
CID:	Not reported
Water Affected:	UPPER NY BAY
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Responsible Party
Cleanup Ceased:	2/15/1995
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	12/13/1992
Spill Record Last Update:	2/15/1995
Spiller Name:	Not reported
Spiller Company:	N.Y.C. DEP
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "FIFOLT/MARTINKA"
Remarks:	STATION FLOODED BY STORM. NO OTHER AGENCIES NOTIFIED. DEP CLEANING UP. Not reported

Material:

Site ID:	169714
Operable Unit ID:	974813
Operable Unit:	01
Material ID:	404014
Material Code:	0062A
Material Name:	RAW SEWAGE
Case No.:	Not reported
Material FA:	Other
Quantity:	-1
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

VAN BROWN ST. & READ ST. (Continued) **S103560413**

Tank Test:

F37 SSW < 1/8 0.080 mi. 421 ft. **VAN BRUNT PUMP STA/BKLYN**
VAN BRUNT PUMP STATION
NEW YORK CITY, NY
NY Spills **S102145339**
N/A

Site 13 of 14 in cluster F

Relative: Lower
Actual: 2 ft.

SPILLS:

Facility ID:	8901074
Facility Type:	ER
DER Facility ID:	281899
Site ID:	305676
DEC Region:	2
Spill Date:	5/3/1989
Spill Number/Closed Date:	8901074 / 5/3/1989
Spill Cause:	Equipment Failure
Spill Class:	Not reported
SWIS:	2401
Investigator:	CANZIANI
Referred To:	Not reported
Reported to Dept:	5/3/1989
CID:	Not reported
Water Affected:	GOWANUS CANAL
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	5/3/1989
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	5/4/1989
Spill Record Last Update:	9/30/2004
Spiller Name:	Not reported
Spiller Company:	NYCDEP
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	BROKEN PUMPS, PUMPS MAY BE CLOGGED OR BROKEN.

Material:

Site ID:	305676
Operable Unit ID:	927930
Operable Unit:	01
Material ID:	452384
Material Code:	0062A
Material Name:	RAW SEWAGE
Case No.:	Not reported
Material FA:	Other
Quantity:	-1
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported

VAN BRUNT PUMP STA/BKLYN (Continued) **S102145339**

Oxygenate: False

Tank Test:

F38 SSW < 1/8 0.080 mi. 421 ft. **VAN BRUNT PUMPING STATION**
VAN BRUNT PUMPING STATION
BROOKLYN, NY
NY Spills **S102145724**
N/A

Site 14 of 14 in cluster F

Relative: Lower
Actual: 2 ft.

SPILLS:

Facility ID:	8912230
Facility Type:	ER
DER Facility ID:	186732
Site ID:	226223
DEC Region:	2
Spill Date:	3/23/1990
Spill Number/Closed Date:	8912230 / 4/9/1990
Spill Cause:	Equipment Failure
Spill Class:	Not reported
SWIS:	2401
Investigator:	MANDALA
Referred To:	Not reported
Reported to Dept:	3/24/1990
CID:	Not reported
Water Affected:	NEW YORK HARBOR
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	4/9/1990
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	4/19/1990
Spill Record Last Update:	11/25/1994
Spiller Name:	Not reported
Spiller Company:	NYCDEP
Spiller Address:	VAN BRUNT STREET
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	PUMPING STATION MALFUNCTION DEC NOTIFIED.PROBLEM IS RECTIFIED

Material:

Site ID:	226223
Operable Unit ID:	939080
Operable Unit:	01
Material ID:	441702
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Not reported

VAN BRUNT PUMPING STATION (Continued) **S102145724**

Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

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39 NNW < 1/8 0.080 mi. 423 ft. **CANAL SANITATION**
162 VAN DYKE STREET
BROOKLYN, NY
NY Spills **S108637726**
N/A

Relative: Higher
Actual: 8 ft.

SPILLS:

Facility ID:	0702571
Facility Type:	ER
DER Facility ID:	331744
Site ID:	382320
DEC Region:	2
Spill Date:	6/1/2007
Spill Number/Closed Date:	0702571 / 6/11/2007
Spill Cause:	Equipment Failure
Spill Class:	Not reported
SWIS:	2401
Investigator:	hrpatel
Referred To:	Not reported
Reported to Dept:	6/1/2007
CID:	444
Water Affected:	SEWER
Spill Source:	Commercial Vehicle
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	6/1/2007
Spill Record Last Update:	1/28/2009
Spiller Name:	SAMUEL GONZALAS
Spiller Company:	CANAL SANITATION
Spiller Address:	162 VAN DYKE STREET
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	999
Contact Name:	SAMUEL GONZALAS
Contact Phone:	(917) 753-2424
DEC Memo:	06/01/07-Hiralkumar Patel. spoke with Mr. Gonzalas he noticed sanitation truck parked on street. operator parks truck everyday on street and there is public park nearby. Mr. Gonzalas noticed a oil puddle under truck. asked Mr. Gonzalas to provide phone number for truck operator. Mr. Gonzalas will call back.06/11/07-Hiralkumar Patel. spoke with Mr. Gonzalas. he noticed that truck company has moved and now no trucks parked at site. no more oil spill. case closed.
Remarks:	TRUCK LEAKS ON ROAD AND INTO SEWER EVERYDAY

Material:

Site ID:	382320

CANAL SANITATION (Continued) **S108637728**

Operable Unit ID:	1139721
Operable Unit:	01
Material ID:	2129762
Material Code:	0010
Material Name:	Hydraulic Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test.

---

40 SSW < 1/8 0.087 mi. 460 ft. **VAN BRUNT STORES WAREHOUSE** **RCRA NonGen / NLR 1000105427**
480 VAN BRUNT ST **FINDS NYD048354955**
BROOKLYN, NY 11231 **MANIFEST**

Relative: Lower
Actual: 3 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	VAN BRUNT STORES WAREHOUSE
Facility address:	480 VAN BRUNT ST BROOKLYN, NY 11231
EPA ID:	NYD048354955
Mailing address:	WORLD TRADE CENTER NEW YORK, NY 10048
Contact:	Not reported
Contact address:	WORLD TRADE CENTER NEW YORK, NY 10048
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Land type:	Facility is not located on Indian land. Additional information is not known
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	US CUSTOMS SVC
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	US CUSTOMS SVC
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212

VAN BRUNT STORES WAREHOUSE (Continued) **1000105427**

Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	01/01/2006
Facility name:	VAN BRUNT STORES WAREHOUSE
Classification:	Not a generator, verified
Date form received by agency:	12/17/1993
Facility name:	VAN BRUNT STORES WAREHOUSE
Classification:	Not a generator, verified
Date form received by agency:	06/10/1992
Facility name:	VAN BRUNT STORES WAREHOUSE
Site name:	US CUSTOMS SERVICE
Classification:	Large Quantity Generator
Date form received by agency:	02/10/1986
Facility name:	VAN BRUNT STORES WAREHOUSE
Classification:	Large Quantity Generator
Violation Status:	No violations found

Evaluation Action Summary:

Evaluation date:	12/17/1993
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	EPA Contractor/Grantee

FINDS:

Registry ID: 110004357115

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of

VAN BRUNT STORES WAREHOUSE (Continued) **1000105427**

events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:
EPA ID: NYD048354955
Country: USA

Mailing Info:
Name: UNITED STATES CUSTOMS SERVICE
Contact: UNITED STATES CUSTOMS SERVICE
Address: 480 VAN BRUNT STREET
City/State/Zip: BROOKLYN, NY 11231
Country: USA
Phone: 212-466-5567

Document ID: SCC0215910
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: Not reported
Trans2 State ID: Not reported
Generator Ship Date: 910215
Trans1 Recv Date: 910215
Trans2 Recv Date: Not reported
TSD Site Recv Date: 910222
Part A Recv Date: 910729
Part B Recv Date: 910722
Generator EPA ID: NYD048354955
Trans1 EPA ID: PAD008781072
Trans2 EPA ID: Not reported
TSDF ID: SCD044442333
Waste Code: D003 - NON-LISTED REACTIVE WASTES
Quantity: 02600
Units: P - Pounds
Number of Containers: 014
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 91

Document ID: NYB2711313
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: 35726ANY
Trans2 State ID: AA49538PA
Generator Ship Date: 910111
Trans1 Recv Date: 910111
Trans2 Recv Date: 910114
TSD Site Recv Date: 910117
Part A Recv Date: 910228
Part B Recv Date: 910215
Generator EPA ID: NYD048354955
Trans1 EPA ID: NYD057770109
Trans2 EPA ID: PAD008781072
TSDF ID: OHD083377010

VAN BRUNT STORES WAREHOUSE (Continued) **1000105427**

Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00165
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 003
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Waste Code: Not reported
Quantity: 00385
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 007
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 099
Year: 91

Document ID: NYB2711322
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: 35726ANY
Trans2 State ID: AA49538PA
Generator Ship Date: 910111
Trans1 Recv Date: 910111
Trans2 Recv Date: 910114
TSD Site Recv Date: 910117
Part A Recv Date: 910228
Part B Recv Date: 910214
Generator EPA ID: NYD048354955
Trans1 EPA ID: NYD057770109
Trans2 EPA ID: PAD008781072
TSDF ID: OHD083377010
Waste Code: D002 - NON-LISTED CORROSIVE WASTES
Quantity: 00700
Units: P - Pounds
Number of Containers: 006
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Waste Code: Not reported
Quantity: 00050
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Waste Code: Not reported
Quantity: 00002
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Waste Code: Not reported
Quantity: 00165
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 003
Container Type: DM - Metal drums, barrels

VAN BRUNT STORES WAREHOUSE (Continued) **1000105427**

Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	91

Document ID:	MDC0117725
Manifest Status:	Completed copy
Trans1 State ID:	HWHAA4936
Trans2 State ID:	HWH45987A
Generator Ship Date:	870817
Trans1 Recv Date:	870817
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	870825
Part A Recv Date:	870827
Part B Recv Date:	870903
Generator EPA ID:	NYD048354955
Trans1 EPA ID:	PAD980830061
Trans2 EPA ID:	Not reported
TSDF ID:	MDD000218008
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00330
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	006
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	87

Document ID:	SCB0111910
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	910111
Trans1 Recv Date:	910111
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	910118
Part A Recv Date:	910227
Part B Recv Date:	910301
Generator EPA ID:	NYD048354955
Trans1 EPA ID:	NYD057770109
Trans2 EPA ID:	Not reported
TSDF ID:	SCD044442333
Waste Code:	D003 - NON-LISTED REACTIVE WASTES
Quantity:	00500
Units:	P - Pounds
Number of Containers:	025
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	91

G41 West < 1/8 0.094 mi. 496 ft. **270 CONOVER ST**
270 CONOVER ST-CAR POUND
BROOKLYN, NY
Site 2 of 2 in cluster G

NY Spills **S102672637**
N/A

Relative: Lower
Actual: 7 ft.

SPILLS:

Facility ID:	9409309
Facility Type:	ER
DER Facility ID:	264010
Site ID:	327985
DEC Region:	2
Spill Date:	10/12/1994
Spill Number/Closed Date:	9409309 / 3/16/1995
Spill Cause:	Deliberate
Spill Class:	Not reported
SWIS:	2401
Investigator:	LAW ENFORCEMENT
Referred To:	LAW ENFORCEMENT
Reported to Dept:	10/12/1994
CID:	Not reported
Water Affected:	NEW YORK HARBOR
Spill Source:	Commercial Vehicle
Spill Notifier:	Federal Government
Cleanup Ceased:	3/16/1995
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	11/3/1994
Spill Record Last Update:	3/16/1995
Spiller Name:	Not reported
Spiller Company:	NYS PLATE CXTX8475
Spiller Address:	436 3RD AVE
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	DUMPED ROCK & SOIL INTO NEW YORK HARBOR-NYC DEP IS NOTIFIED.

Material:

Site ID:	327985
Operable Unit ID:	1003268
Operable Unit:	01
Material ID:	378731
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

42
North
< 1/8
0.108 mi.
568 ft.

260 COFFEY ST/BKLYN
260 COFFEY STREET
NEW YORK CITY, NY

NY Spills **S102145511**
N/A

Relative:
Higher

Actual:
8 ft.

SPILLS:

Facility ID:	8906587
Facility Type:	ER
DER Facility ID:	123754
Site ID:	145212
DEC Region:	2
Spill Date:	8/17/1989
Spill Number/Closed Date:	8906587 / 10/4/1989
Spill Cause:	Deliberate
Spill Class:	Not reported
SWIS:	2401
Investigator:	O'DOWD
Referred To:	Not reported
Reported to Dept:	10/4/1989
CID:	Not reported
Water Affected:	BUTTERMILK CHANNEL
Spill Source:	Commercial/Industrial
Spill Notifier:	Citizen
Cleanup Ceased:	10/4/1989
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	10/16/1989
Spill Record Last Update:	10/17/1989
Spiller Name:	Not reported
Spiller Company:	ZALENTE INDUSTRIES
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	ZALENTE INDUSTRIES DUMPING CEMENT SLURRY INTO CHANNEL, REFERRED TO THEECO'S.

Material:

Tank Test:

43
West
< 1/8
0.108 mi.
571 ft.

METRO REBUILDERS
269 CONOVER ST
BROOKLYN, NY

NY Spills **S103482732**
N/A

Relative:
Lower

Actual:
5 ft.

SPILLS:

Facility ID:	9804632
Facility Type:	ER
DER Facility ID:	93362
Site ID:	105877
DEC Region:	2

METRO REBUILDERS (Continued) **S103482732**

Spill Date:	5/1/1998
Spill Number/Closed Date:	9804632 / 2/9/2004
Spill Cause:	Deliberate
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.
SWIS:	2401
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	7/13/1998
CID:	365
Water Affected:	RIVER (UNSURE NAME)
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	7/13/1998
Spill Record Last Update:	2/9/2004
Spiller Name:	Not reported
Spiller Company:	METRO REBUILDERS
Spiller Address:	190 3RD AVENUE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	(718) 797-3509
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "AUSTIN"7/13/98 Spoke to caller Steve Bernardo:Says his boss who is owner of Metro Rebuilders (Russel Costelano) dumped two autombile engines into water (Upper New York Bay) with motor oil and transmission oil still in them. Says engines were stolen but does not know how his boss came into possession of them. Says you can see engines during low tide. Says there was sheen in river. Yard is open from 9 AM to 7 or 8 PM. Telephone of Metro Rebuilders is (718) 797-3509. Costelano's office is at 190 3rd Ave., Brooklyn. Office number is (718) 369-6600. Steve Bernardo should not be contacted at his workplace concerning this matter.7/14 visited area. Inspected shoreline from public park just north of Metro Rebuilders from private property just south. Did not see any sheen or engines but tide was high.Referred to ECOs on 7/15/982/9/04 - AUSTIN - NO FURTHER INFO ON THIS MATTER - CLOSED - ORIG. ASSIGNED TO ENGELHARDT - END
Remarks:	CALLER IS EX-EMPLOYEE OF BUSINESS & WITNESSED OTHER EMPLOYEES DUMPING ENGINES INTO THE RIVER (HE WASN'T SURE OF THE NAME OF THE RIVER) - HE SAYS THERE IS TRANSMISSION OIL & MOTOR OIL SHEENS FLOATING IN THE RIVER

Material:

Site ID:	105877
Operable Unit ID:	1062544
Operable Unit:	01
Material ID:	319352
Material Code:	0021
Material Name:	Transmission Fluid
Case No.:	Not reported
Material FA:	Petroleum

METRO REBUILDERS (Continued) S103482732

Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False
Site ID:	105877
Operable Unit ID:	1062544
Operable Unit:	01
Material ID:	319351
Material Code:	0015
Material Name:	Motor Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

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44 NNE < 1/8 0.109 mi. 578 ft. **CONOVER STREET BETWEEN DYKEMAN AND COFFEY BROOKLYN, NY** NY Spills S106002787 N/A

Relative: Higher **Actual: 9 ft.**

SPILLS:

Facility ID:	0200661
Facility Type:	ER
DER Facility ID:	218143
Site ID:	267780
DEC Region:	2
Spill Date:	4/17/2002
Spill Number/Closed Date:	0200661 / 3/7/2003
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Unknown Responsible Party. Corrective action taken. (ISR)
SWIS:	2401
Investigator:	WYNE
Referred To:	Not reported
Reported to Dept:	4/17/2002
CID:	282
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	DEC
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	4/17/2002
Spill Record Last Update:	3/7/2003
Spiller Name:	Not reported
Spiller Company:	UNKNOWN

CONOVER STREET BETWEEN (Continued) S106002787

Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	JOHN MCGETTRICK
Contact Phone:	(718) 424-4040
DEC Memo:	Not reported
Remarks:	citizen called mr mcgettrick oil is covering the street

Material:

Site ID:	267780
Operable Unit ID:	851549
Operable Unit:	01
Material ID:	522099
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

---

45 NW < 1/8 0.119 mi. 627 ft. **CORNELL PAPER BOX INC. 180 VAN DYKE STREET BROOKLYN, NY 11231** AST U004046450 N/A

Relative: Lower **Actual: 5 ft.**

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated
Facility Id:	2-608414
Program Type:	PBS
UTM X:	583272.99300000002
UTM Y:	4503229.8584700003
Expiration Date:	2008-02-26
Site Type:	Unknown

Affiliation Records:

Site Id:	30266
Affiliation Type:	Facility Owner
Company Name:	MARC ROBBINS
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	162 VAN DYKE ST
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11231
Country Code:	001
Phone:	(718) 875-3202
EMail:	Not reported
Fax Number:	Not reported

CORNELL PAPER BOX INC. (Continued) **U004046450**

Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 30266
Affiliation Type: Mail Contact
Company Name: CORNELL LAPERBOX INC.
Contact Type: Not reported
Contact Name: Not reported
Address1: 162 VAN DYKE STREET
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11231
Country Code 001
Phone: (718) 875-3202
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 30266
Affiliation Type: On-Site Operator
Company Name: CORNELL PAPER BOX INC.
Contact Type: Not reported
Contact Name: CORNELL LAPERBOX
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 875-3202
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 30266
Affiliation Type: Emergency Contact
Company Name: MARC ROBBINS
Contact Type: Not reported
Contact Name: MARC ROBBINS
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (917) 509-8155
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Tank Info:

Tank Number: 001

CORNELL PAPER BOX INC. (Continued) **U004046450**

Tank Id: 65138
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:
I05 - Overfill - Vent Whistle
J00 - Dispenser - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
A04 - Tank Internal Protection - Glass Liner
C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
G03 - Tank Secondary Containment - Vault (w/o access)
D10 - Pipe Type - Copper

Tank Location: 6
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: Not reported
Capacity Gallons: 5000
Tightness Test Method: 21
Date Test: 06/02/2003
Next Test Date: Not reported
Date Tank Closed: 06/01/2003
Register: True
Modified By: TRANSLAT
Last Modified: 03/04/2004
Material Name: #2 Fuel Oil (On-Site Consumption)

---

46 **206 RICHARDS ST / LOT** **NY Spills** **S102144508**
ESE **206 RICHARDS ST/COFFEY** **N/A**
< 1/8 **BROOKLYN, NY**
0.124 mi.
656 ft.

Relative:
Lower

Actual:
7 ft.

SPILLS:
Facility ID: 8700667
Facility Type: ER
DER Facility ID: 149385
Site ID: 177783
DEC Region: 2
Spill Date: 4/23/1987
Spill Number/Closed Date: 8700667 / 4/23/1987
Spill Cause: Deliberate
Spill Class: Not reported
SWIS: 2401
Investigator: UNASSIGNED
Referred To: Not reported
Reported to Dept: 4/23/1987
CID: Not reported
Water Affected: NONE
Spill Source: Commercial/Industrial
Spill Notifier: Affected Persons
Cleanup Ceased: 4/23/1987
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: False

206 RICHARDS ST / LOT (Continued) **S102144508**

UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 4/24/1987
Spill Record Last Update: 2/18/2003
Spiller Name: Not reported
Spiller Company: INTER-BURRUOGH CONTAINERS
Spiller Address: 1-201-235-1122 ---ALSO---
Spiller City,St,Zip: ALLEGRO CONTAINERS, ZZ
Spiller Company: 001
Contact Name: Not reported
Contact Phone: Not reported
DEC Memo: Prior to Sept. 2004 data translation this spill Lead_DEC Field was "
"10/10/95: This is additional information about material spilled from
the translation of the old spill file: UNKNOWN HAZ / MAT.
Remarks: VACANT LOT NEXT TO 206 RICHARD STREET. DUMPSTERS PUT IN HIS YARD AND
ON LOT. WITNESSES TO DUMPING. HOLE DUG AND MATERIALS PUT INTO HOLE AND
Not reported

Material:
Site ID: 177783
Operable Unit ID: 905160
Operable Unit: 01
Material ID: 470653
Material Code: 0066A
Material Name: UNKNOWN PETROLEUM
Case No.: Not reported
Material FA: Petroleum
Quantity: -1
Units: Pounds
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

---

47 NE < 1/8 0.125 mi. 659 ft.

CON EDISON MANHOLE: 43655
VAN BRUNT ST & DIKEMAN ST SW
BROOKLYN, NY 11231

RCRA-CESQG **1016149945** **NYP004286134**

Relative: Higher
Actual: 10 ft.

RCRA-CESQG:
Date form received by agency: 01/29/2013
Facility name: CON EDISON MANHOLE: 43655
Facility address: VAN BRUNT ST & DIKEMAN ST SW
COR
BROOKLYN, NY 11231
EPA ID: NYP004286134
Mailing address: IRVING PL, RM 828
NEW YORK, NY 10003
Contact: ANTHONY SIGNORE
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (718) 802-3008
Contact email: Not reported
EPA Region: 02

CON EDISON MANHOLE: 43655 (Continued) **1016149945**

Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

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48 NNE 1/8-1/4 0.126 mi. 664 ft.

MATTHEW RUGGIERO PLUMBING CO. INC.
125 DIKEMAN STREET
BROOKLYN, NY 11231

UST **U003397258** **N/A**

Relative: Higher
Actual: 10 ft.

UST:
Id/Status: 2-603570 / Unregulated
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: 2013-07-22
UTM X: 583341.03133000003
UTM Y: 4503364.3671000004
Site Type: Apartment Building/Office Building

Affiliation Records:
Site Id: 25484
Affiliation Type: Mail Contact
Company Name: MATTHEW RUGGIERO PLUMBING CO. INC.
Contact Type: Not reported
Contact Name: MR. MATTHEW RUGGIERO
Address1: 18 2ND PLACE
Address2: Not reported

MATTHEW RUGGIERO PLUMBING CO. INC. (Continued) U003397258

City:	BROOKLYN
State:	NY
Zip Code:	11231
Country Code:	001
Phone:	(718) 875-3594
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	11/17/2010

Site Id:	25484
Affiliation Type:	Emergency Contact
Company Name:	MATTHEW RUGGIERO
Contact Type:	Not reported
Contact Name:	MATTHEW RUGGIERO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 875-3594
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	11/17/2010

Site Id:	25484
Affiliation Type:	On-Site Operator
Company Name:	MATTHEW RUGGIERO PLUMBING CO. INC.
Contact Type:	Not reported
Contact Name:	MATTHEW RUGGIERO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 875-3594
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	11/17/2010

Site Id:	25484
Affiliation Type:	Facility Owner
Company Name:	MATTHEW RUGGIERO
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	18 2ND PLACE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11231
Country Code:	001
Phone:	(718) 875-3594
EMail:	Not reported

MATTHEW RUGGIERO PLUMBING CO. INC. (Continued) U003397258

Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	11/17/2010

Tank Info:

Tank Number:	001
Tank ID:	54831
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	1000
Install Date:	09/01/1998
Date Tank Closed:	10/26/2010
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0008
Common Name of Substance:	Diesel

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	11/17/2010

Equipment Records:

A00 - Tank Internal Protection - None
J01 - Dispenser - Pressurized Dispenser
C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I02 - Overfill - High Level Alarm
B00 - Tank External Protection - None
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
G04 - Tank Secondary Containment - Double-Walled (Underground)
L08 - Piping Leak Detection - Tank Top Sump
E04 - Piping Secondary Containment - Double-Walled (Underground)
F00 - Pipe External Protection - None
K01 - Spill Prevention - Catch Basin

Tank Number:	002
Tank ID:	54832
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	1000
Install Date:	09/01/1998
Date Tank Closed:	10/26/2010
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0008
Common Name of Substance:	Diesel

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported

MATTHEW RUGGIERO PLUMBING CO. INC. (Continued) U003397258

Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 11/17/2010

Equipment Records:

A00 - Tank Internal Protection - None
J01 - Dispenser - Pressurized Dispenser
B00 - Tank External Protection - None
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
G04 - Tank Secondary Containment - Double-Walled (Underground)
L08 - Piping Leak Detection - Tank Top Sump
C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I02 - Overfill - High Level Alarm
E04 - Piping Secondary Containment - Double-Walled (Underground)
F00 - Pipe External Protection - None
K01 - Spill Prevention - Catch Basin

Tank Number: 003
Tank ID: 54833
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 1000
Install Date: 09/01/1998
Date Tank Closed: 10/26/2010
Registered: True
Tank Location: Underground
Tank Type: Equivalent technology
Material Code: 0008
Common Name of Substance: Diesel

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 11/17/2010

Equipment Records:

A00 - Tank Internal Protection - None
J01 - Dispenser - Pressurized Dispenser
B00 - Tank External Protection - None
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
G04 - Tank Secondary Containment - Double-Walled (Underground)
L08 - Piping Leak Detection - Tank Top Sump
C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I02 - Overfill - High Level Alarm
E04 - Piping Secondary Containment - Double-Walled (Underground)
F00 - Pipe External Protection - None
K01 - Spill Prevention - Catch Basin

H49 SE 1/8-1/4 0.128 mi. 674 ft. **NYNEX** **MANIFEST** 1009234593
BEARD ST & RICHARD ST N/A
BROOKLYN, NY

Site 1 of 4 in cluster H

Relative: Lower **Actual: 1 ft.**

NY MANIFEST:
EPA ID: NYP000933093
Country: USA

Mailing Info:
Name: NYNEX
Contact: V. ORCHIER
Address: 221 E 37TH ST
City/State/Zip: NEW YORK, NY 10016
Country: USA
Phone: 212-338-7126

Document ID: MIA4512874
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: Not reported
Trans2 State ID: Not reported
Generator Ship Date: 970123
Trans1 Recv Date: 970123
Trans2 Recv Date: 970124
TSD Site Recv Date: 970208
Part A Recv Date: Not reported
Part B Recv Date: 970224
Generator EPA ID: NYP000933093
Trans1 EPA ID: NYD010951986
Trans2 EPA ID: NYD046765574
TSDF ID: MID096963194
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 00800
Units: P - Pounds
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: L Landfill.
Specific Gravity: 100
Year: 97

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50 ESE 1/8-1/4 0.128 mi. 676 ft. **221-229 RICHARDS STREET** **UST** U004190186
221 RICHARDS STREET N/A
BROOKLYN, NY 11231

Relative: Lower **Actual: 5 ft.**

UST:
Id/Status: 2-611805 / Unregulated
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: 2011-12-15
UTM X: Not reported
UTM Y: Not reported
Site Type: Other

Affiliation Records:
Site Id: 463386
Affiliation Type: Mail Contact

221-229 RICHARDS STREET (Continued) U004190186

Company Name: RACHELS ISLAND, LLC
Contact Type: Not reported
Contact Name: JOSEPH HOFFMAN
Address1: 79 LORIMER STREET
Address2: SUITE 4A
City: BROOKLYN
State: NY
Zip Code: 11206
Country Code: 001
Phone: (718) 417-1616
EMail: JH@BUSHBURG.COM
Fax Number: Not reported
Modified By: CGFREEDM
Date Last Modified: 4/24/2012

Site Id: 463386
Affiliation Type: On-Site Operator
Company Name: 221-229 RICHARDS STREET
Contact Type: Not reported
Contact Name: JOSEPH HOFFMAN
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 417-1616
EMail: Not reported
Fax Number: Not reported
Modified By: MSBAPTIS
Date Last Modified: 4/23/2012

Site Id: 463386
Affiliation Type: Emergency Contact
Company Name: RACHELS ISLAND, LLC
Contact Type: Not reported
Contact Name: JOSEPH HOFFMAN
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 417-1616
EMail: Not reported
Fax Number: Not reported
Modified By: MSBAPTIS
Date Last Modified: 4/23/2012

Site Id: 463386
Affiliation Type: Facility Owner
Company Name: RACHELS ISLAND, LLC
Contact Type: Not reported
Contact Name: JOSEPH HOFFMAN
Address1: 79 LORIMER STREET, SUITE 4A
Address2: Not reported
City: BROOKLYN

221-229 RICHARDS STREET (Continued) U004190186

State: NY
Zip Code: 11206
Country Code: 001
Phone: (718) 417-1616
EMail: Not reported
Fax Number: Not reported
Modified By: CGFREEDM
Date Last Modified: 4/24/2012

Tank Info:

Tank Number: 001
Tank ID: 243771
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 300
Install Date: Not reported
Date Tank Closed: 12/15/2011
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: CGFREEDM
Last Modified: 04/24/2012

Equipment Records:

A00 - Tank Internal Protection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
I00 - Overfill - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

Tank Number: 002
Tank ID: 243772
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 300
Install Date: Not reported
Date Tank Closed: 12/15/2011
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009

221-229 RICHARDS STREET (Continued) U004190186

Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: CGFREEDM
Last Modified: 04/24/2012

Equipment Records:

E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
L00 - Piping Leak Detection - None
I00 - Overfill - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

Tank Number: 003
Tank ID: 243773
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 300
Install Date: Not reported
Date Tank Closed: 12/15/2011
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: CGFREEDM
Last Modified: 04/24/2012

Equipment Records:

A00 - Tank Internal Protection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
I00 - Overfill - None
L00 - Piping Leak Detection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

221-229 RICHARDS STREET (Continued) U004190186

Tank Number: 004
Tank ID: 243774
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 300
Install Date: Not reported
Date Tank Closed: 12/15/2011
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: CGFREEDM
Last Modified: 04/24/2012

Equipment Records:

A00 - Tank Internal Protection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
I00 - Overfill - None
L00 - Piping Leak Detection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

Tank Number: 005
Tank ID: 243775
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 300
Install Date: Not reported
Date Tank Closed: 12/15/2011
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: CGFREEDM
Last Modified: 04/24/2012

Equipment Records:

A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping

221-229 RICHARDS STREET (Continued) U004190186

G00 - Tank Secondary Containment - None
J00 - Dispenser - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
L00 - Piping Leak Detection - None
I00 - Overfill - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

Tank Number:	006
Tank ID:	243780
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	300
Install Date:	Not reported
Date Tank Closed:	12/15/2011
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	CGFREEDM
Last Modified:	04/24/2012

Equipment Records:

D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
L00 - Piping Leak Detection - None
I00 - Overfill - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

H51 SSE 1/8-1/4 0.133 mi. 700 ft. **REVERE SUGAR CORP** **280 RICHARDS ST** **BROOKLYN, NY 11231** — LTANKS, MANIFEST, NY Spills — S106703436, N/A

Site 2 of 4 in cluster H

Relative: Lower **Actual: 1 ft.**

LTANKS:

Site ID:	292247
Spill Number/Closed Date:	9001856 / 12/6/1991
Spill Date:	5/16/1990
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial

REVERE SUGAR CORP (Continued) S106703436

Spill Class:	Not reported
Cleanup Ceased:	12/6/1991
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	TOMASELLO
Referred To:	Not reported
Reported to Dept:	5/17/1990
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Local Agency
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	5/22/1990
Spill Record Last Update:	10/23/2003
Spiller Name:	Not reported
Spiller Company:	REVERE SUGAR CORPORATION
Spiller Address:	280 RICHARDS ST
Spiller City,St,Zip:	BROOKLYN, NY 11231-
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	236614
DEC Memo:	Not reported
Remarks:	NYCDEP,NYCFD NOTIFIED, DEC(TOMASELLO) RESPONDED, REFERRED TO HAZ SUBSTANCES REMEDIATION,

Material:

Tank Test:

NY MANIFEST:

EPA ID:	NYD078179090
Country:	USA

Mailing Info:

Name:	REVERE SUGAR CORP
Contact:	L ADAMS
Address:	280 RICHARDS STREET
City/State/Zip:	BROOKLYN, NY 11231
Country:	USA
Phone:	212-403-3400

NY MANIFEST:

No Manifest Records Available

SPILLS:

Facility ID:	0610967
Facility Type:	ER
DER Facility ID:	236614
Site ID:	375509

REVERE SUGAR CORP (Continued) S106703436

DEC Region:	2
Spill Date:	12/31/2006
Spill Number/Closed Date:	0610967 / 1/2/2007
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	HRPATEL
Referred To:	Not reported
Reported to Dept:	12/31/2006
CID:	74
Water Affected:	BUTTERMILK CHANNEL
Spill Source:	Unknown
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	12/31/2006
Spill Record Last Update:	1/2/2007
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ -
Spiller Company:	001
Contact Name:	SHAWN DONOHUE
Contact Phone:	(212) 689-1520
DEC Memo:	01/02/07-Hiralkumar Patel, visited site on 12/31/06, DEP crew was working at site repairing broken water main line. during excavation, as they reached closed to main line, they found oily water filling excavation pit. they don't know whether any line leaked during excavation or this oil coming from oil saturated soil. there is old sugar factory on other side of street where this excavation work going on. spoke with security guard at sugar factory, he mentioned that he observed oil and water overflowing from sewer on street at 3 O'clock in morning and after smelling gasoline, he reported to fire department. fire department responded and found sheen on water and left scene. as per security guard, suger factory will be demolished soon for reconstruction. walked along sugar facotry side walk. all water puddles on street had oil sheen on it. light to heavy oil sheen observed inside sugar facoty as oil/water from sewer ran into factory also. no odors at site. very little sheen on water in excavation pit for water main break.spoke with DEC Jacob. explained him situation about oily puddles over street. he asked not to call DEC contracctor for any cleanup as oil from unknown site. he asked to check any open/close spill in this area.met Ms. Persis and Endrew Kelly from DEP. Ms. Persis contacted their department and asked for vaccum truck to remove water from this excavation. DEP will do cleanup of their excavation area only and will not do any further cleanup. before leaving site, asked Ms. Persis to check for any contaminated soil, once they empty out excavation pit.Ms. Persis917-662-0768Endrew Kelly718-595-4761Dan Jennings (sugar factory manager)280 Richards StreetBrooklyn, NYPh. (212) 434-3045 (718) 254-0584received call from Shay McAtamney (718-595-4618) from DEP on 01/01/07, she mentioned that they removed water from excavation pit but still more water

REVERE SUGAR CORP (Continued) S106703436

	coming in, so they decided to pump this water in local catch basin and will treat this water in treatment plant. they already notified treatment plant for additional load. once they get clear area, they will check whether main line was affected with this oil or not. asked Shay to call back with more details.spoke with Shay today, they have finished their repair. DEP observed contaminated soil around water line. as per Shay this are was industrial in past and believes this contamination is from past. main water line was not affected.spoke with DEC Jacob. he suggested to close this case.
Remarks:	excavation for a water main breakHole is filling up with oil - unknown from wherePlease contact caller

Material:

Site ID:	375509
Operable Unit ID:	1133143
Operable Unit:	01
Material ID:	2122945
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	0811098
Facility Type:	ER
DER Facility ID:	357894
Site ID:	408651
DEC Region:	2
Spill Date:	1/6/2009
Spill Number/Closed Date:	0811098 / Not Reported
Spill Cause:	Unknown
Spill Class:	Not reported
SWIS:	2401
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	1/6/2009
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	1
Date Entered In Computer:	1/6/2009
Spill Record Last Update:	12/4/2009
Spiller Name:	Not reported
Spiller Company:	UNKNOWN

REVERE SUGAR CORP (Continued) **S106703436**

Spiller Address: Not reported
Spiller City,St,Zip: NY
Spiller Company: 999
Contact Name: SIN SENH
Contact Phone: (631) 232-2600
DEC Memo: I spoke with Jamie Barr. He is not contractor. Roux is. During drilling, free phase 6 oil was found approx 10' below the water table. Investigation is ongoing.Geotech contractor was drilling found contamiantion below water table. site is along water.DECPiper spoke with Roux. RAWP is being generated.
Remarks: Were drilling for development/discovered 17 ft below grade found free product of #6 oil.

Material:
Site ID: 408651
Operable Unit ID: 1165173
Operable Unit: 01
Material ID: 2156574
Material Code: 0003A
Material Name: #6 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Gallons
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: False

Tank Test:

H52 **REVERE SUGAR CORP BROOKLYN** **RCRA NonGen / NLR** **1000214648**
SSE **280 RICHARDS STREET** **FINDS** **NYD078179090**
1/8-1/4 **BROOKLYN, NY** **US AIRS**
0.133 mi.
700 ft. **Site 3 of 4 in cluster H**

Relative:
Lower

Actual:
1 ft.

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: REVERE SUGAR CORP
Facility address: 280 RICHARD ST
BROOKLYN, NY 11231
EPA ID: NYD078179090
Mailing address: RICHARD ST
BROOKLYN, NY 11231
Contact: Not reported
Contact address: RICHARD ST
BROOKLYN, NY 11231
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

REVERE SUGAR CORP BROOKLYN (Continued) **1000214648**

Owner/operator name: Not reported
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: Not reported
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: REVERE SUGAR CORP
Classification: Not a generator, verified

Date form received by agency: 03/01/1985
Facility name: REVERE SUGAR CORP
Classification: Not a generator, verified

Date form received by agency: 06/12/1984
Facility name: REVERE SUGAR CORP
Classification: Large Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 12/17/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported

REVERE SUGAR CORP BROOKLYN (Continued) **1000214648**

Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

FINDS:

Registry ID: 110001570639

Environmental Interest/Information System
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

AIRS (AFS):

Airs Minor Details:
EPA plant ID: 110001570639
Plant name: REVERE SUGAR CORP BROOKLYN
Plant address: 280 RICHARDS ST
BROOKLYN, NY 11231
County: KINGS
Region code: 02
Dunn & Bradst #: Not reported
Air quality cntrl region: 043
Sic code: 2062
Sic code desc: CANE SUGAR REFINING
North Am. industrial classf: 311312
NAIC code description: Cane Sugar Refining
Default compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Default classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Govt facility: ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT
Current HPV: Not reported

Historical Compliance Minor Sources:
State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS

REVERE SUGAR CORP BROOKLYN (Continued) **1000214648**

Hist compliance date: 1004
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1101
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1102
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1103
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1104
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1201
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1202
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1203
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1204
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1301
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1302
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1303
Air prog code hist file: SIP SOURCE

Compliance & Violation Data by Minor Sources:
Air program code: SIP SOURCE
Plant air program pollutant: TOTAL PARTICULATE MATTER
Default pollutant classification: CLASS IS UNKNOWN
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Def. attainment/non attnmnt: NON-ATTAINMENT FOR SECONDARY PT OR SO STANDARDS 2
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: SIP SOURCE

REVERE SUGAR CORP BROOKLYN (Continued) **1000214648**

Plant air program pollutant: VISIBLE EMISSIONS
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

H53 **REVERE SUGAR CORPORATION** **UST** **U003074317**
SSE **280 RICHARDS STREET** **HIST UST** **N/A**
1/8-1/4 **BROOKLYN, NY 11231** **AST**
0.133 mi. **HIST AST**
700 ft. **Site 4 of 4 in cluster H**

Relative:
Lower

Actual:
1 ft.

UST:
Id/Status: 2-080837 / Unregulated
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: 1997-01-14
UTM X: 583357.41802999994
UTM Y: 4503009.9068400003
Site Type: Other

Affiliation Records:
Site Id: 1650
Affiliation Type: Facility Owner
Company Name: REVERE SUGAR CORPORATION
Contact Type: Not reported
Contact Name: Not reported
Address1: 280 RICHARDS STREET
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11231
Country Code: 001
Phone: (718) 643-6565
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 1650
Affiliation Type: Mail Contact
Company Name: REVERE SUGAR CORPORATION
Contact Type: Not reported
Contact Name: Not reported
Address1: 280 RICHARDS STREET
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11231
Country Code: 001
Phone: (718) 643-6565
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

REVERE SUGAR CORPORATION (Continued) **U003074317**

Site Id: 1650
Affiliation Type: On-Site Operator
Company Name: REVERE SUGAR CORPORATION
Contact Type: Not reported
Contact Name: REVERE SUGAR CORPORATION
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 643-6565
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 1650
Affiliation Type: Emergency Contact
Company Name: REVERE SUGAR CORPORATION
Contact Type: Not reported
Contact Name: REVERE SUGAR CORPORATION
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 643-6565
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Tank Info:

Tank Number: 006
Tank ID: 2710
Tank Status: Temporarily Out of Service
Material Name: Temporarily Out of Service
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0000
Common Name of Substance: Empty

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

REVERE SUGAR CORPORATION (Continued) U003074317

I00 - Overfill - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
G00 - Tank Secondary Containment - None

Tank Number: 007
Tank ID: 2711
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 09/01/1992
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0000
Common Name of Substance: Empty

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
I00 - Overfill - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

Tank Number: 008
Tank ID: 2712
Tank Status: Closed - In Place
Material Name: Closed - In Place
Capacity Gallons: 550
Install Date: 09/01/1992
Date Tank Closed: 09/01/1992
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0000
Common Name of Substance: Empty

Tightness Test Method: NN

REVERE SUGAR CORPORATION (Continued) U003074317

Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
I00 - Overfill - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

HIST UST:
PBS Number: 2-080637
SPDES Number: Not reported
Emergency Contact: REVERE SUGAR CORPORATION
Emergency Telephone: (718) 643-6565
Operator: REVERE SUGAR CORPORATION
Operator Telephone: (718) 643-6565
Owner Name: REVERE SUGAR CORPORATION
Owner Address: 280 RICHARDS STREET
Owner City,St,Zip: BROOKLYN, NY 11231
Owner Telephone: (718) 643-6565
Owner Type: Corporate/Commercial
Owner Subtype: Not reported
Mailing Name: REVERE SUGAR CORPORATION
Mailing Address: 280 RICHARDS STREET
Mailing Address 2: Not reported
Mailing City,St,Zip: BROOKLYN, NY 11231
Mailing Contact: Not reported
Mailing Telephone: (718) 643-6565
Owner Mark: First Owner
Facility Status: 2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2: 280 RICHARDS STREET
SWIS ID: 6101
Old PBS Number: Not reported
Facility Type: OTHER
Inspected Date: Not reported
Inspector: Not reported
Inspection Result: Not reported
Federal ID: Not reported
Certification Flag: False
Certification Date: 01/30/1992
Expiration Date: 01/14/1997
Renew Flag: False
Renewal Date: Not reported
Total Capacity: 550
FAMT: True
Facility Screen: No Missing Data
Owner Screen: No Missing Data
Tank Screen: Minor Data Missing

REVERE SUGAR CORPORATION (Continued) U003074317

Dead Letter: False
CBS Number: Not reported
Town or City: NEW YORK CITY
County Code: 61
Town or City: 01
Region: 2

Tank Id: 006
Tank Location: UNDERGROUND
Tank Status: Temporarily Out Of Service
Install Date: Not reported
Capacity (gals): 550
Product Stored: EMPTY
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: STEEL/IRON
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Not reported
Dispenser: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 007
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: Not reported
Capacity (gals): 550
Product Stored: EMPTY
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: STEEL/IRON
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Not reported
Dispenser: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 09/01/1992
Test Method: Not reported
Deleted: False

REVERE SUGAR CORPORATION (Continued) U003074317

Updated: True
Lat/long: Not reported

AST:
Region: STATE
DEC Region: 2
Site Status: Unregulated
Facility Id: 2-080837
Program Type: PBS
UTM X: 583357.41802999994
UTM Y: 4503009.9068400003
Expiration Date: 1997-01-14
Site Type: Other

Affiliation Records:
Site Id: 1650
Affiliation Type: Facility Owner
Company Name: REVERE SUGAR CORPORATION
Contact Type: Not reported
Contact Name: Not reported
Address1: 280 RICHARDS STREET
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11231
Country Code: 001
Phone: (718) 643-6565
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 1650
Affiliation Type: Mail Contact
Company Name: REVERE SUGAR CORPORATION
Contact Type: Not reported
Contact Name: Not reported
Address1: 280 RICHARDS STREET
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11231
Country Code: 001
Phone: (718) 643-6565
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 1650
Affiliation Type: On-Site Operator
Company Name: REVERE SUGAR CORPORATION
Contact Type: Not reported
Contact Name: REVERE SUGAR CORPORATION
Address1: Not reported
Address2: Not reported
City: Not reported

REVERE SUGAR CORPORATION (Continued) U003074317

State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 643-6565
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	1650
Affiliation Type:	Emergency Contact
Company Name:	REVERE SUGAR CORPORATION
Contact Type:	Not reported
Contact Name:	REVERE SUGAR CORPORATION
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 643-6565
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank Id:	2708
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)

Equipment Records:

H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	20000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	09/01/1991
Register:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004

REVERE SUGAR CORPORATION (Continued) U003074317

Material Name:	#6 Fuel Oil (On-Site Consumption)

Tank Number:	002
Tank Id:	2709
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
G00 - Tank Secondary Containment - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	20000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	09/01/1991
Register:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Material Name:	#6 Fuel Oil (On-Site Consumption)

HIST AST:

PBS Number:	2-080837
SWIS Code:	6101
Operator:	REVERE SUGAR CORPORATION
Facility Phone:	(718) 643-6565
Facility Addr2:	280 RICHARDS STREET
Facility Type:	OTHER
Emergency:	REVERE SUGAR CORPORATION
Emergency Tel:	(718) 643-6565
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	REVERE SUGAR CORPORATION
Owner Address:	280 RICHARDS STREET
Owner City,St,Zip:	BROOKLYN, NY 11231
Federal ID:	Not reported
Owner Tel:	(718) 643-6565
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Contact:	Not reported
Mailing Name:	REVERE SUGAR CORPORATION
Mailing Address:	280 RICHARDS STREET

REVERE SUGAR CORPORATION (Continued) **U003074317**

Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11231
Mailing Telephone:	(718) 643-6565
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Certification Flag:	False
Certification Date:	01/30/1992
Expiration:	01/14/1997
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	550
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City Code:	01
Region:	2

Tank ID:	001
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (Gal):	20000
Product Stored:	NOS 5 OR 6 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	Not reported
Leak Detection:	0
Overfill Protection:	4
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	09/01/1991
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

Tank ID:	002
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (Gal):	20000
Product Stored:	NOS 5 OR 6 FUEL OIL

REVERE SUGAR CORPORATION (Continued) **U003074317**

Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	Not reported
Leak Detection:	0
Overfill Protection:	4
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	09/01/1991
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

54
NNW
1/8-1/4
0.153 mi.
808 ft.

C & L DESIGNS
173 COFFEY ST
BROOKLYN, NY 11231

RCRA NonGen / NLR **1000110518**
FINDS **NYD147377543**
MANIFEST

Relative:
Higher

Actual:
8 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	C & L DESIGNS
Facility address:	173 COFFEY ST BROOKLYN, NY 112311028
EPA ID:	NYD147377543
Mailing address:	COFFEY ST BROOKLYN, NY 11231
Contact:	Not reported
Contact address:	COFFEY ST BROOKLYN, NY 11231
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	NATHAN CHESS
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name: NATHAN CHESS

C & L DESIGNS (Continued) 1000110518

Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: C & L DESIGNS
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: C & L DESIGNS
Classification: Not a generator, verified

Date form received by agency: 10/06/1987
Facility name: C & L DESIGNS
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110004383649

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:
EPA ID: NYD147377543

C & L DESIGNS (Continued) 1000110518

Country: USA

Mailing Info:
Name: C & L DESIGNS
Contact: C & L DESIGNS
Address: 175 COFFEY STREET
City/State/Zip: BROOKLYN, NY 11231
Country: USA
Phone: 718-624-2405

Document ID: NJA9635938
Manifest Status: Completed copy
Trans1 State ID: NJSWAS300
Trans2 State ID: Not reported
Generator Ship Date: 890530
Trans1 Recv Date: 890530
Trans2 Recv Date: Not reported
TSD Site Recv Date: 890530
Part A Recv Date: 890608
Part B Recv Date: 890607
Generator EPA ID: NYD147377543
Trans1 EPA ID: NJD991291105
Trans2 EPA ID: Not reported
TSDF ID: NJD991291105
Waste Code: F003 - UNKNOWN
Quantity: 00055
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Year: 89

Document ID: NYA6400413
Manifest Status: Completed copy
Trans1 State ID: PLATE#
Trans2 State ID: 57745GB
Generator Ship Date: 871013
Trans1 Recv Date: 871013
Trans2 Recv Date: Not reported
TSD Site Recv Date: 871013
Part A Recv Date: 871021
Part B Recv Date: 871027
Generator EPA ID: NYD147377543
Trans1 EPA ID: NYD000824334
Trans2 EPA ID: Not reported
TSDF ID: NYD000824334
Waste Code: F003 - UNKNOWN
Quantity: 00055
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 87

C & L DESIGNS (Continued) **1000110518**

Document ID:	NJA0534832
Manifest Status:	Completed copy
Trans1 State ID:	NJSWAS300
Trans2 State ID:	Not reported
Generator Ship Date:	881123
Trans1 Recv Date:	881123
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	881123
Part A Recv Date:	881205
Part B Recv Date:	881202
Generator EPA ID:	NYD147377543
Trans1 EPA ID:	NJD991291105
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	F005 - UNKNOWN
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	8 Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	88

---

55 NW 1/8-1/4 0.154 mi. 812 ft. **PLAYWRIGHTS HORIZONS SCENE SHOP** **RCRA NonGen / NLR 1001080146**
196 VANDYKE ST **FINDS NYR000018531**
BROOKLYN, NY 11231 **MANIFEST**

Relative: Higher

Actual: 8 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	PLAYWRIGHTS HORIZONS SCENE SHOP
Facility address:	196 VANDYKE ST BROOKLYN, NY 112311013
EPA ID:	NYR000018531
Mailing address:	W 42ND ST NEW YORK, NY 100366896
Contact:	Not reported
Contact address:	W 42ND ST NEW YORK, NY 100366896
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	PLAYWRIGHTS HORIZONS INC
Owner/operator address:	416 W 42ND ST NEW YORK, NY 10036
Owner/operator country:	US
Owner/operator telephone:	(212) 564-1235
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

PLAYWRIGHTS HORIZONS SCENE SHOP (Continued) **1001080146**

Owner/operator name:	PLAYWRIGHTS HORIZONS INC
Owner/operator address:	416 W 42ND ST NEW YORK, NY 10036
Owner/operator country:	US
Owner/operator telephone:	(212) 564-1235
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	01/01/2006
Facility name:	PLAYWRIGHTS HORIZONS SCENE SHOP
Classification:	Not a generator, verified
Date form received by agency:	07/08/1999
Facility name:	PLAYWRIGHTS HORIZONS SCENE SHOP
Classification:	Not a generator, verified
Date form received by agency:	01/17/1996
Facility name:	PLAYWRIGHTS HORIZONS SCENE SHOP
Classification:	Small Quantity Generator
Violation Status:	No violations found

FINDS:

Registry ID: 110004521768

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:

PLAYWRIGHTS HORIZONS SCENE SHOP (Continued) 1001080146

EPA ID: NYR000018531
Country: USA

Mailing Info:
Name: PLAYWRIGHTS HORIZONS SCENE SHOP
Contact: FREDERIC TIETZ
Address: 416 W 42ND STREET
City/State/Zip: NEW YORK, NY 10036
Country: USA
Phone: 718-797-1196

Document ID: NYB7438428
Manifest Status: Completed copy
Trans1 State ID: PD9938
Trans2 State ID: Not reported
Generator Ship Date: 960124
Trans1 Recv Date: 960124
Trans2 Recv Date: Not reported
TSD Site Recv Date: 960126
Part A Recv Date: 960202
Part B Recv Date: 960205
Generator EPA ID: NYR000018531
Trans1 EPA ID: NYD082785429
Trans2 EPA ID: Not reported
TSDF ID: NYD082785429
Waste Code: D003 - NON-LISTED REACTIVE WASTES
Quantity: 00050
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 004
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 124
Waste Code: Not reported
Quantity: 00600
Units: P - Pounds
Number of Containers: 005
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Year: 96

56
ESE **69 VAN DYKE ST** EDR US Hist Auto Stat 1015601054
1/8-1/4 **BROOKLYN, NY 11231** N/A
0.162 mi.
857 ft.

Relative: EDR Historical Auto Stations:
Lower Name: M & L AUTO REPAIR LTD
Year: 2012
Actual: Address: 69 VAN DYKE ST
4 ft.

I57
North **161 DIKEMAN ST** EDR US Hist Auto Stat 1015254520
1/8-1/4 **BROOKLYN, NY 11231** N/A
0.164 mi.
867 ft. **Site 1 of 2 in cluster I**

Relative: EDR Historical Auto Stations:
Higher Name: HARBOR SIDE TRUCK REPAIR INCORPORATED
Year: 1999
Actual: Address: 161 DIKEMAN ST
8 ft.

Name: HARBOR SIDE TRUCK REPAIR INCORPORATED
Year: 2000
Address: 161 DIKEMAN ST

Name: HARBOR SIDE TRUCK REPAIR INC
Year: 2001
Address: 161 DIKEMAN ST

Name: HARBOR SIDE TRUCK REPAIR INC
Year: 2002
Address: 161 DIKEMAN ST

Name: HARBOR SIDE TRUCK REPAIR INC
Year: 2003
Address: 161 DIKEMAN ST

Name: HARBOR SIDE TRUCK REPAIR INC
Year: 2004
Address: 161 DIKEMAN ST

Name: HARBOR SIDE TRUCK REPAIR INC
Year: 2005
Address: 161 DIKEMAN ST

Name: HARBOR SIDE TRUCK REPAIR INC
Year: 2006
Address: 161 DIKEMAN ST

I58 **P. MARCKESANO & SONS CO INC** RCRA NonGen / NLR 1000296015
North **161 DIKEMAN ST** FINDS NYD982269672
1/8-1/4 **BROOKLYN, NY**
0.164 mi.
867 ft. **Site 2 of 2 in cluster I**

Relative: RCRA NonGen / NLR:
Higher Date form received by agency: 01/01/2007
Facility name: P. MARCKESANO & SONS CO INC
Actual: Facility address: 161 DIKEMAN ST
8 ft. BROOKLYN, NY 112311105
EPA ID: NYD982269672
Mailing address: FERRIS ST
BROOKLYN, NY 11231
Contact: Not reported
Contact address: FERRIS ST
BROOKLYN, NY 11231
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02

P. MARCKESANO & SONS CO INC (Continued) **1000296015**

Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: MARCKESANO & JOHN
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: MARCKESANO & JOHN
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: P. MARCKESANO & SONS CO INC
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: P. MARCKESANO & SONS CO INC
Classification: Not a generator, verified

Date form received by agency: 06/18/1987
Facility name: P. MARCKESANO & SONS CO INC
Classification: Large Quantity Generator

Violation Status: No violations found

P. MARCKESANO & SONS CO INC (Continued) **1000296015**

Evaluation Action Summary:
Evaluation date: 07/22/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

FINDS:

Registry ID: 110004416971

Environmental Interest/Information System
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J59 **CON EDISON** **MANIFEST** **S113494415**
NE **WOLCOTT ST AND VAN BRUNT ST** **N/A**
1/8-1/4 **BROOKLYN, NY 11201**
0.172 mi.
910 ft. **Site 1 of 3 in cluster J**

Relative:
Higher

Actual:
10 ft.

NY MANIFEST:
EPA ID: NYP000292876
Country: USA

Mailing Info:
Name: CON EDISON
Contact: TOM TEELING
Address: 4 IRVING PLACE 15TH FLOOR
City/State/Zip: NEW YORK, NY 10003
Country: USA
Phone: 212-460-3770

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NJD003812047
Trans2 State ID: Not reported
Generator Ship Date: 2013-03-12
Trans1 Recv Date: 2013-03-12
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2013-03-14
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP000292876
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NJD991291105
Waste Code: Not reported
Quantity: 250
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 1
Container Type: TT - Cargo tank, tank trucks

CON EDISON (Continued) S113494415

Handling Method:	T Chemical, physical, or biological treatment
Specific Gravity:	1
Year:	2013
Manifest Tracking Num:	002016615GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

J60
NE
1/8-1/4
0.173 mi.
912 ft.

CON EDISON MANHOLE: 43651
WALLCOTT ST & VAN BRUNT ST
BROOKLYN, NY 11231

RCRA NonGen / NLR — 1016450263, NYP004292876

Site 2 of 3 in cluster J

Relative:
Higher

Actual:
9 ft.

RCRA NonGen / NLR:

Date form received by agency:	04/12/2013
Facility name:	CON EDISON MANHOLE: 43651
Facility address:	WALLCOTT ST & VAN BRUNT ST BROOKLYN, NY 11231
EPA ID:	NYP004292876
Contact:	ANTHONY SIGNORE
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(718) 802-3008
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:
Date form received by agency: 03/12/2013

CON EDISON MANHOLE: 43651 (Continued) 1016450263

Facility name:	CON EDISON MANHOLE: 43651
Classification:	Conditionally Exempt Small Quantity Generator
Violation Status:	No violations found

J61
NE
1/8-1/4
0.176 mi.
929 ft.

87 WOLCOTT ST
BROOKLYN, NY 11231

EDR US Hist Auto Stat — 1015659852, N/A

Site 3 of 3 in cluster J

Relative:
Higher

Actual:
9 ft.

EDR Historical Auto Stations:

Name:	AUTO PROFESSOR INC
Year:	2002
Address:	87 WOLCOTT ST
Name:	AUTO PROFFESSOR INC
Year:	2005
Address:	87 WOLCOTT ST

K62
NNE
1/8-1/4
0.195 mi.
1030 ft.

CONOVER TRANSFER STATION
143-47 WALCOTT ST
BROOKLYN, NY 11231

SWF/LF — S105841711, N/A

Site 1 of 3 in cluster K

Relative:
Higher

Actual:
9 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	7185964040
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	CARL BIVONA; OWNER
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - permit
Activity Number:	[24178]
Active:	No
East Coordinate:	583200
North Coordinate:	4503600
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6102-00008
Authorization Date:	Not reported
Expiration Date:	Not reported

L63
NNW
1/8-1/4
0.195 mi.
1031 ft.

KINGS COUNTY CONCRETE CO.
206 COFFEE ST.
BROOKLYN, NY 11231

Site 1 of 2 in cluster L

CBS AST **S102143005**
NY Spills **N/A**
CBS

Relative:
Higher

Actual:
10 ft.

CBS AST:

CBS Number:	2-000179
ICS Number:	2-700746
PBS Number:	Not reported
MOSF Number:	Not reported
SPDES Number:	Not reported
Facility Status:	IN SERVICE
Facility Type:	D
Telephone:	(718) 797-0390
Facility Town:	NEW YORK CITY
Region:	STATE
Expiration Date:	09/22/1993
Total Capacity of All Active Tanks(gal):	0
Operator:	ANTHONY VALENTE
Emergency Contact:	SIL SANTANGELO
Emergency Phone:	(201) 933-8800
Owner Name:	SIKA CORPORATION
Owner Address:	201 POLITO AVE.
Owner City,St,Zip:	LYNDHURST, NJ 07071
Owner Telephone:	(201) 933-8800
Owner Type:	Corporate/Commercial
Owner Sub Type:	Not reported
Mail Name:	SIKA CORPORATION
Mail Contact Addr:	201 POLITO AVE.
Mail Contact Addr2:	Not reported
Mail Contact Contact:	SIL SANTANGELO
Mail Contact City,St,Zip:	LYNDHURST, NJ 07071
Mail Phone:	(201) 933-8800

Tank Id:	09311
CAS Number:	1310732
Federal ID:	Not reported
Tank Status:	0
Install Date:	10/85
Tank Closed:	00/00
Capacity (Gal):	1000
Chemical:	Sodium hydroxide
Tank Location:	Indoors, Aboveground
Tank Type:	Fiberglass reinforced plastic [FRP]
Total Tanks:	0
Tank Secret:	False
Tank Secondary Containment:	None
Tank Error Status:	No Missing Data
Date Entered:	09/22/1989
Certified Date:	11/19/1991
Substance:	Single Hazardous Substance on DEC List
Internal Protection:	None
External Protection:	None
Pipe Location:	Aboveground
Pipe Type:	Unknown
Pipe Internal:	None
Pipe External:	None
Pipe Flag:	None

KINGS COUNTY CONCRETE CO. (Continued) **S102143005**

Leak Detection:	None
Overfill Protection:	None
Haz Percent:	2
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	06/07/93
Is It There:	False
Delinquent:	False
Date Expired:	09/22/93
Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	06/07/1993

Tank Id:	09333
CAS Number:	1310732
Federal ID:	Not reported
Tank Status:	0
Install Date:	04/87
Tank Closed:	00/00
Capacity (Gal):	1000
Chemical:	Sodium hydroxide
Tank Location:	Indoors, Aboveground
Tank Type:	Fiberglass reinforced plastic [FRP]
Total Tanks:	0
Tank Secret:	False
Tank Secondary Containment:	None
Tank Error Status:	No Missing Data
Date Entered:	09/22/1989
Certified Date:	11/19/1991
Substance:	Single Hazardous Substance on DEC List
Internal Protection:	None
External Protection:	None
Pipe Location:	Aboveground
Pipe Type:	Unknown
Pipe Internal:	None
Pipe External:	None
Pipe Flag:	None
Leak Detection:	None
Overfill Protection:	None
Haz Percent:	1
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	06/07/93
Is It There:	False
Delinquent:	False
Date Expired:	09/22/93
Owner Mark:	1
Certificate Needs to be Printed:	False

KINGS COUNTY CONCRETE CO. (Continued) **S102143005**

Fiscal Amt for Registration Fee Correct: True
Renewal Has Been Printed for Facility: True
Pre-Printed Renewal App Last Printed: 06/07/1993

Tank Id:	09312
CAS Number:	1310732
Federal ID:	Not reported
Tank Status:	0
Install Date:	04/87
Tank Closed:	00/00
Capacity (Gal):	1000
Chemical:	Sodium hydroxide
Tank Location:	Indoors, Aboveground
Tank Type:	Fiberglass reinforced plastic [FRP]
Total Tanks:	0
Tank Secret:	False
Tank Secondary Containment:	None
Tank Error Status:	No Missing Data
Date Entered:	09/22/1989
Certified Date:	11/19/1991
Substance:	Single Hazardous Substance on DEC List
Internal Protection:	None
External Protection:	None
Pipe Location:	Aboveground
Pipe Type:	Unknown
Pipe Internal:	None
Pipe External:	None
Pipe Flag:	None
Leak Detection:	None
Overfill Protection:	None
Haz Percent:	2
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	06/07/93
Is It There:	False
Delinquent:	False
Date Expired:	09/22/93
Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	06/07/1993

SPILLS:

Facility ID:	8503896
Facility Type:	ER
DER Facility ID:	151313
Site ID:	180406
DEC Region:	2
Spill Date:	2/5/1986
Spill Number/Closed Date:	8503896 / 2/6/1986
Spill Cause:	Equipment Failure
Spill Class:	Possible release with minimal potential for fire or hazard or Known

KINGS COUNTY CONCRETE CO. (Continued) **S102143005**

release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.

SWIS:	2401
Investigator:	SMITH
Referred To:	Not reported
Reported to Dept:	2/5/1986
CID:	Not reported
Water Affected:	BUTTERMILK CHANNEL
Spill Source:	Tank Truck
Spill Notifier:	Federal Government
Cleanup Ceased:	2/6/1986
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered in Computer:	5/18/1992
Spill Record Last Update:	8/4/1995
Spiller Name:	Not reported
Spiller Company:	KINGS COUNTY CONCRETE
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	DEC CONTACTED OWNER MR. VALENTI. HE STATES HE WILL REMOVE ALL OIL CONTAMINATED SAND AND OIL ON 2-6-86

Material:

Site ID:	180406
Operable Unit ID:	897366
Operable Unit:	01
Material ID:	479773
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	300
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

CBS:

CBS Number:	2-000179
Program Type:	CBS
Facility Status:	Unregulated
Expiration Date:	09/22/1993
Dec Region:	2
UTMX:	478536.81637000
UTMY:	4916475.2856700

L64 NNW 1/8-1/4 0.197 mi. 1039 ft. **202 COFFEY STREET ASSOCIATES**
202 COFFEY STREET
BROOKLYN, NY 11231

UST U000402471
N/A

Site 2 of 2 in cluster L

Relative: Higher

Actual: 10 ft.

UST:

Id/Status:	2-286133 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	2017-07-20
UTM X:	583099.73176
UTM Y:	4503469.7690099999
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	12750
Affiliation Type:	Mail Contact
Company Name:	TIME MOVING & STORAGE
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	628 WEST 45TH STREET
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10036
Country Code:	001
Phone:	(718) 855-1700
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	12750
Affiliation Type:	On-Site Operator
Company Name:	202 COFFEY STREET ASSOCIATES
Contact Type:	Not reported
Contact Name:	TIME MOVERS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NY
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 643-0822
EMail:	Not reported
Fax Number:	Not reported
Modified By:	ANAUSTIN
Date Last Modified:	9/22/2005

Site Id:	12750
Affiliation Type:	Emergency Contact
Company Name:	J. KEVIN GILGAN & JOSEPH P. CANDELLA
Contact Type:	Not reported
Contact Name:	J. KEVIN GILGAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN

202 COFFEY STREET ASSOCIATES (Continued) U000402471

Zip Code:	Not reported
Country Code:	999
Phone:	(718) 855-1700
EMail:	Not reported
Fax Number:	Not reported
Modified By:	ANAUSTIN
Date Last Modified:	9/22/2005

Site Id:	12750
Affiliation Type:	Facility Owner
Company Name:	J. KEVIN GILGAN & JOSEPH P. CANDELLA
Contact Type:	CONTROLLER
Contact Name:	TERANCE WILLIAMS
Address1:	202 COFFEY ST
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11231
Country Code:	001
Phone:	(718) 855-1700
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMMOLOUG
Date Last Modified:	9/10/2012

Tank Info:

Tank Number:	001
Tank ID:	17662
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	8000
Install Date:	12/01/1979
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0002
Common Name of Substance:	#4 Fuel Oil (On-Site Consumption)

Tightness Test Method:	21
Date Test:	07/16/2012
Next Test Date:	07/16/2017
Pipe Model:	Not reported
Modified By:	BKFALVEY
Last Modified:	08/06/2012

Equipment Records:

C03 - Pipe Location - Aboveground/Underground Combination
F01 - Pipe External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
B01 - Tank External Protection - Painted/Asphalt Coating
G00 - Tank Secondary Containment - None
I05 - Overfill - Vent Whistle
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser

202 COFFEY STREET ASSOCIATES (Continued) U000402471

L09 - Piping Leak Detection - Exempt Suction Piping

K65 NNE 1/8-1/4 0.198 mi. 1044 ft. **CUPIE TRANSPORTATION CORP.**
145-147 WOLCOTT STREET
BROOKLYN, NY 11231

HIST UST U003074931
AST N/A
HIST AST

Site 2 of 3 in cluster K

Relative: Higher

Actual: 9 ft.

HIST UST:

PBS Number:	2-600048
SPDES Number:	Not reported
Emergency Contact:	GREG IOVINE
Emergency Telephone:	(718) 855-6050
Operator:	GREG IOVINE
Operator Telephone:	(718) 855-6050
Owner Name:	CUPIE TRANSPORTATION CORP.
Owner Address:	145-147 WOLCOTT STREET
Owner City,St,Zip:	BROOKLYN, NY 11231
Owner Telephone:	(718) 855-6050
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	CUPIE TRANSPORTATION CORP.
Mailing Address:	145-147 WOLCOTT STREET
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11231
Mailing Contact:	MR. GREG IOVINE
Mailing Telephone:	(718) 855-6050
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	145 WOLCOTT STREET
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	TRUCKING/TRANSPORTATION
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	04/02/2001
Expiration Date:	04/08/2006
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	8975
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2
Tank Id:	001
Tank Location:	UNDERGROUND

CUPIE TRANSPORTATION CORP. (Continued) U003074931

Tank Status:	Temporarily Out Of Service
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Vent Whistle
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported
Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	Temporarily Out Of Service
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Vent Whistle
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported
Tank Id:	003
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (gals):	6000

CUPIE TRANSPORTATION CORP. (Continued) U003074931

Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	Other
Leak Detection:	Other
Overfill Prot:	Vent Whistle
Dispenser:	Suction
Date Tested:	11/04/1999
Next Test Date:	11/04/2004
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	004
Tank Location:	UNDERGROUND
Tank Status:	Temporarily Out Of Service
Install Date:	Not reported
Capacity (gals):	500
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Vent Whistle
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	005
Tank Location:	UNDERGROUND
Tank Status:	Temporarily Out Of Service
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None

CUPIE TRANSPORTATION CORP. (Continued) U003074931

Tank External:	None
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Vent Whistle
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	006
Tank Location:	UNDERGROUND
Tank Status:	Temporarily Out Of Service
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Vent Whistle
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated
Facility Id:	2-600048
Program Type:	PBS
UTM X:	583300.53348999994
UTM Y:	4503498.9708700003
Expiration Date:	2006-04-08
Site Type:	Trucking/Transportation/Fleet Operation

Affiliation Records:

CUPIE TRANSPORTATION CORP. (Continued) U003074931

Site Id:	22036
Affiliation Type:	Facility Owner
Company Name:	CUPIE BUS
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	165 WOLCOTT STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11231
Country Code:	001
Phone:	(718) 855-6050
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	22036
Affiliation Type:	Mail Contact
Company Name:	CUPIE BUS
Contact Type:	Not reported
Contact Name:	LARRY GIUNTA
Address1:	165 WOLCOTT STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11231
Country Code:	001
Phone:	(718) 855-6050
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	22036
Affiliation Type:	On-Site Operator
Company Name:	CUPIE BUS
Contact Type:	Not reported
Contact Name:	LARRY GIUNTA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 855-6050
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	22036
Affiliation Type:	Emergency Contact
Company Name:	CUPIE BUS
Contact Type:	Not reported
Contact Name:	LARRY GIUNTA
Address1:	Not reported

CUPIE TRANSPORTATION CORP. (Continued) U003074931

Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 855-6050
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	007
Tank Id:	41673
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
I00 - Overfill - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Tank Converted to Non-Regulated Use
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	08/01/1996
Register:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Material Name:	#2 Fuel Oil (On-Site Consumption)

Tank Number:	008
Tank Id:	51665
Material Code:	0012
Common Name of Substance:	Kerosene [#1 Fuel Oil] (On-Site Consumption)

Equipment Records:

D00 - Pipe Type - No Piping
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None

CUPIE TRANSPORTATION CORP. (Continued) **U003074931**

J00 - Dispenser - None
I00 - Overfill - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	10/01/1995
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Material Name:	Kerosene [#1 Fuel Oil] (On-Site Consumption)

HIST AST:

PBS Number:	2-600048
SWIS Code:	6101
Operator:	GREG IOVINE
Facility Phone:	(718) 855-6050
Facility Addr2:	145 WOLCOTT STREET
Facility Type:	TRUCKING/TRANSPORTATION
Emergency:	GREG IOVINE
Emergency Tel:	(718) 855-6050
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	CUPIE TRANSPORTATION CORP.
Owner Address:	145-147 WOLCOTT STREET
Owner City,St,Zip:	BROOKLYN, NY 11231
Federal ID:	Not reported
Owner Tel:	(718) 855-6050
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Contact:	MR. GREG IOVINE
Mailing Name:	CUPIE TRANSPORTATION CORP.
Mailing Address:	145-147 WOLCOTT STREET
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11231
Mailing Telephone:	(718) 855-6050
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	04/02/2001
Expiration:	04/08/2006
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	8975
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	Minor Data Missing

CUPIE TRANSPORTATION CORP. (Continued) **U003074931**

Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City Code:	01
Region:	2
Tank ID:	007
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	Tank Converted To Non-Regulated Use
Install Date:	Not reported
Capacity (Gal):	275
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	00
Pipe Location:	None
Pipe Type:	NONE
Pipe Internal:	None
Pipe External:	00
Tank Containment:	None
Leak Detection:	00
Overfill Protection:	00
Dispenser Method:	0
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	08/01/1996
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

K66 **PERFECT BODIES AUTO COLLISION** **RCRA NonGen / NLR** **1004763070**
NNE **145-165 WOLCOTT ST** **FINDS** **NYR000103309**
1/8-1/4 **BROOKLYN, NY** **MANIFEST**
0.198 mi.
1044 ft. **Site 3 of 3 in cluster K**

Relative:
Higher

Actual:
9 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	PERFECT BODIES AUTO COLLISION
Facility address:	145-165 WOLCOTT ST BROOKLYN, NY 11231
EPA ID:	NYR000103309
Mailing address:	WOLCOTT ST BROOKLYN, NY 11231
Contact:	GREG IOVINE
Contact address:	WOLCOTT ST BROOKLYN, NY 11231
Contact country:	US
Contact telephone:	(718) 534-0300
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

PERFECT BODIES AUTO COLLISION (Continued) 1004763070

Owner/Operator Summary:

Owner/operator name:	GREGORY IOVINE
Owner/operator address:	145-165 WOLCOTT ST BROOKLYN, NY 11231
Owner/operator country:	US
Owner/operator telephone:	(718) 534-0300
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/2001
Owner/Op end date:	Not reported

Owner/operator name:	GREGORY IOVINE
Owner/operator address:	145-165 WOLCOTT ST BROOKLYN, NY 11231
Owner/operator country:	US
Owner/operator telephone:	(718) 534-0300
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	01/01/2001
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency: 01/01/2006
Facility name: PERFECT BODIES AUTO COLLISION
Classification: Not a generator, verified

Date form received by agency: 01/11/2002
Facility name: PERFECT BODIES AUTO COLLISION
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110012193072

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of

PERFECT BODIES AUTO COLLISION (Continued) 1004763070

events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:

EPA ID:	NYR000103309
Country:	USA

Mailing Info:

Name:	PERFECT BODY
Contact:	JOSEPH A GOTTI
Address:	145-165 WOL COTT ST
City/State/Zip:	BROOKLYN, NY 11231
Country:	USA
Phone:	718-534-0300

Document ID:	NYG3194883
Manifest Status:	Not reported
Trans1 State ID:	NYD077444263
Trans2 State ID:	Not reported
Generator Ship Date:	01/18/2002
Trans1 Recv Date:	01/18/2002
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/23/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000103309
Trans1 EPA ID:	NYD077444263
Trans2 EPA ID:	Not reported
TSDF ID:	PD1011NY
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00075
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2002

Document ID:	NYG3495816
Manifest Status:	Not reported
Trans1 State ID:	NYD077444263
Trans2 State ID:	Not reported
Generator Ship Date:	10/28/2002
Trans1 Recv Date:	10/28/2002
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/29/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000103309
Trans1 EPA ID:	NYD077444263
Trans2 EPA ID:	Not reported
TSDF ID:	40578PANY

PERFECT BODIES AUTO COLLISION (Continued) **1004763070**

Waste Code:	F003 - UNKNOWN
Quantity:	00040
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2002

67
NW
1/8-1/4
0.203 mi.
1072 ft.

KINGS COUNTY CONCRETE
CROPSEY AVE.
BROOKLYN, NY 11244

CBS AST **S102639418**
CBS **N/A**

Relative:
Higher

Actual:
9 ft.

CBS AST:

CBS Number:	2-000184
ICS Number:	2-700745
PBS Number:	Not reported
MOSF Number:	Not reported
SPDES Number:	Not reported
Facility Status:	IN SERVICE
Facility Type:	D
Telephone:	(718) 373-2000
Facility Town:	NEW YORK CITY
Region:	STATE
Expiration Date:	09/22/1995
Total Capacity of All Active Tanks(gal):	0
Operator:	ANTHONY VALENTE
Emergency Contact:	STEVEN ROSENBERG
Emergency Phone:	(201) 933-8800
Owner Name:	SIKA CORPORATION
Owner Address:	201 POLITO AVE.
Owner City,St,Zip:	LYNDHURST, NJ 07071
Owner Telephone:	(201) 933-8800
Owner Type:	Corporate/Commercial
Owner Sub Type:	Not reported
Mail Name:	SIKA CORPORATION
Mail Contact Addr:	201 POLITO AVE.
Mail Contact Addr2:	Not reported
Mail Contact Contact:	STEVEN ROSENBERG
Mail Contact City,St,Zip:	LYNDHURST, NJ 07071
Mail Phone:	(201) 933-8800
Tank Id:	09314
CAS Number:	1310732
Federal ID:	Not reported
Tank Status:	0
Install Date:	10/88
Tank Closed:	00/00
Capacity (Gal):	1000
Chemical:	Sodium hydroxide
Tank Location:	Indoors, Aboveground
Tank Type:	Fiberglass reinforced plastic [FRP]
Total Tanks:	0
Tank Secret:	False
Tank Secondary Containment:	None
Tank Error Status:	No Missing Data

KINGS COUNTY CONCRETE (Continued) **S102639418**

Date Entered:	09/22/1989
Certified Date:	07/29/1993
Substance:	Single Hazardous Substance on DEC List
Internal Protection:	None
External Protection:	None
Pipe Location:	Aboveground
Pipe Type:	Unknown
Pipe Internal:	None
Pipe External:	None
Pipe Flag:	None
Leak Detection:	None
Overfill Protection:	None
Haz Percent:	2
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	06/07/93
Is It There:	False
Delinquent:	False
Date Expired:	09/22/95
Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	06/01/1995

CBS:

CBS Number:	2-000184
Program Type:	CBS
Facility Status:	Unregulated
Expiration Date:	09/22/1995
Dec Region:	2
UTMX:	585834.79492999
UTMY:	4492802.4500599

M68
SE
1/8-1/4
0.207 mi.
1092 ft.

47 VAN DYKE ST
BROOKLYN, NY 11231

EDR US Hist Auto Stat **1015510011**
N/A

Site 1 of 2 in cluster M

Relative:
Lower

Actual:
3 ft.

EDR Historical Auto Stations:

Name:	G & F AUTO COLLISION INC
Year:	2002
Address:	47 VAN DYKE ST
Name:	G & F AUTO COLLISION
Year:	2003
Address:	47 VAN DYKE ST
Name:	G & F AUTO COLLISION
Year:	2006
Address:	47 VAN DYKE ST
Name:	G & F AUTO COLLISION

(Continued) 1015510011

Year: 2010
Address: 47 VAN DYKE ST

Name: G & F AUTO COLLISION
Year: 2011
Address: 47 VAN DYKE ST

Name: G & F AUTO COLLISION
Year: 2012
Address: 47 VAN DYKE ST

N69 ESE 1/8-1/4 0.212 mi. 1118 ft. — **FISCHER MARINE REPAIR CORP**, **38 COFFEY ST**, **BROOKLYN, NY 11231** — RCRA NonGen / NLR 1001113338, FINDS NYR000023283

Site 1 of 4 in cluster N

Relative: Lower
Actual: 6 ft.

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: FISCHER MARINE REPAIR CORP
Facility address: 38 COFFEY ST
BROOKLYN, NY 112311510
EPA ID: NYR000023283
Mailing address: PO BOX 1517
PERTH AMBOY, NY 08862
Contact: Not reported
Contact address: PO BOX 1517
PERTH AMBOY, NY 08862
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: RICHARD STRYPE
Owner/operator address: 352 8TH ST
STATEN ISLAND, NY 10306
Owner/operator country: US
Owner/operator telephone: (718) 492-3583
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: RICHARD STRYPE
Owner/operator address: 352 8TH ST
STATEN ISLAND, NY 10306
Owner/operator country: US
Owner/operator telephone: (718) 492-3583
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

FISCHER MARINE REPAIR CORP (Continued) 1001113338

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: FISCHER MARINE REPAIR CORP
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: FISCHER MARINE REPAIR CORP
Classification: Not a generator, verified

Date form received by agency: 05/02/1996
Facility name: FISCHER MARINE REPAIR CORP
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110004524523

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

N70 ESE 1/8-1/4 0.221 mi. 1165 ft. — **BARGE AUTO BODY INC**, **34 COFFEY ST**, **BROOKLYN, NY 11231** — RCRA-CESQG 1000693639, FINDS NYD986997047, MANIFEST

Site 2 of 4 in cluster N

Relative: Lower
Actual: 6 ft.

RCRA-CESQG:
Date form received by agency: 01/01/2007
Facility name: BARGE AUTO BODY INC
Facility address: 34 COFFEY ST
BROOKLYN, NY 11231
EPA ID: NYD986997047

BARGE AUTO BODY INC (Continued) 1000693639

Mailing address: COFFEY ST
BROOKLYN, NY 11231
Contact: DAMIAN LUBRANO
Contact address: COFFEY ST
BROOKLYN, NY 11231
Contact country: US
Contact telephone: (718) 237-1733
Contact email: Not reported
EPA Region: 02
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: DAMIAN LUBRANO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, NY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: DAMIAN LUBRANO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, NY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No

BARGE AUTO BODY INC (Continued) 1000693639

Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: BARGE AUTO BODY INC
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 03/27/1992
Facility name: BARGE AUTO BODY INC
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110004487939

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

NY MANIFEST:
EPA ID: NYD986997047
Country: USA

Mailing Info:
Name: BARGE AUTO BODY INC
Contact: DAMIAN LUBRANO
Address: 34 COFFEE STREET
City/State/Zip: BROOKLYN, NY 11231
Country: USA
Phone: 718-237-1733

Document ID: NJA2103518
Manifest Status: Completed copy
Trans1 State ID: 10339
Trans2 State ID: Not reported
Generator Ship Date: 950329
Trans1 Recv Date: 950329
Trans2 Recv Date: Not reported
TSD Site Recv Date: 950330
Part A Recv Date: 950410

BARGE AUTO BODY INC (Continued) 1000693639

Part B Recv Date:	950406
Generator EPA ID:	NYD986997047
Trans1 EPA ID:	NJD986608941
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002454544
Waste Code:	F003 - UNKNOWN
Quantity:	00090
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	95

Document ID:	NJA2953665
Manifest Status:	Not reported
Trans1 State ID:	NJD986608941
Trans2 State ID:	Not reported
Generator Ship Date:	04/21/1998
Trans1 Recv Date:	04/21/1998
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/23/1998
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986997047
Trans1 EPA ID:	NJD002454544
Trans2 EPA ID:	Not reported
TSDF ID:	10339
Waste Code:	F003 - UNKNOWN
Quantity:	00110
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	01.00
Year:	98

Document ID:	ILA8991555
Manifest Status:	Not reported
Trans1 State ID:	SCR000075150
Trans2 State ID:	SCR000074591
Generator Ship Date:	07/06/2001
Trans1 Recv Date:	07/06/2001
Trans2 Recv Date:	07/15/2001
TSD Site Recv Date:	07/16/2001
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986997047
Trans1 EPA ID:	ILD980613913
Trans2 EPA ID:	Not reported
TSDF ID:	UPW151288
Waste Code:	F005 - UNKNOWN
Quantity:	00792
Units:	P - Pounds
Number of Containers:	002

BARGE AUTO BODY INC (Continued) 1000693639

Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2001

Document ID:	NJA1472035
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NJDEPS103
Trans2 State ID:	Not reported
Generator Ship Date:	920505
Trans1 Recv Date:	920505
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	920506
Part A Recv Date:	Not reported
Part B Recv Date:	920601
Generator EPA ID:	NYD986997047
Trans1 EPA ID:	NJD986608941
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002454544
Waste Code:	F003 - UNKNOWN
Quantity:	00075
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	92

Document ID:	NJA3038912
Manifest Status:	Not reported
Trans1 State ID:	NJD986608941
Trans2 State ID:	Not reported
Generator Ship Date:	04/20/1999
Trans1 Recv Date:	04/20/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/21/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986997047
Trans1 EPA ID:	NJD002454544
Trans2 EPA ID:	Not reported
TSDF ID:	10339
Waste Code:	F005 - UNKNOWN
Quantity:	00110
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	01.00
Year:	99

Document ID:	ILA8963098
Manifest Status:	Not reported
Trans1 State ID:	SCR000075150

BARGE AUTO BODY INC (Continued) 1000693639

Trans2 State ID:	Not reported
Generator Ship Date:	01/21/2002
Trans1 Recv Date:	01/21/2002
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/28/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986997047
Trans1 EPA ID:	ILD980613913
Trans2 EPA ID:	Not reported
TSDF ID:	UPW151288
Waste Code:	F005 - UNKNOWN
Quantity:	00112
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2002

Document ID:	ILA9094714
Manifest Status:	Not reported
Trans1 State ID:	SCR000075150
Trans2 State ID:	Not reported
Generator Ship Date:	03/01/2002
Trans1 Recv Date:	03/01/2002
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/11/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986997047
Trans1 EPA ID:	ILD980613913
Trans2 EPA ID:	Not reported
TSDF ID:	UPW151288
Waste Code:	F005 - UNKNOWN
Quantity:	00112
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2002

Document ID:	NJA1557273
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPS103
Trans2 State ID:	Not reported
Generator Ship Date:	930301
Trans1 Recv Date:	930301
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930302
Part A Recv Date:	930319
Part B Recv Date:	930312
Generator EPA ID:	NYD986997047
Trans1 EPA ID:	NJD986608941

BARGE AUTO BODY INC (Continued) 1000693639

Trans2 EPA ID:	Not reported
TSDF ID:	NJD002454544
Waste Code:	F003 - UNKNOWN
Quantity:	00040
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	93

Document ID:	NJA1769562
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPS103
Trans2 State ID:	Not reported
Generator Ship Date:	930923
Trans1 Recv Date:	930923
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930923
Part A Recv Date:	Not reported
Part B Recv Date:	931007
Generator EPA ID:	NYD986997047
Trans1 EPA ID:	NJD986608941
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002454544
Waste Code:	F003 - UNKNOWN
Quantity:	00070
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material
Specific Gravity:	100
Year:	93

Document ID:	NJA1886116
Manifest Status:	Completed copy
Trans1 State ID:	10339
Trans2 State ID:	Not reported
Generator Ship Date:	940328
Trans1 Recv Date:	940328
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	940331
Part A Recv Date:	940412
Part B Recv Date:	940412
Generator EPA ID:	NYD986997047
Trans1 EPA ID:	NJD986608941
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002454544
Waste Code:	F003 - UNKNOWN
Quantity:	00100
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100

BARGE AUTO BODY INC (Continued) 1000693639

Year: 94

Document ID: NJA2717972
Manifest Status: Completed copy
Trans1 State ID: 10339
Trans2 State ID: Not reported
Generator Ship Date: 961113
Trans1 Recv Date: 961113
Trans2 Recv Date: Not reported
TSD Site Recv Date: 961114
Part A Recv Date: Not reported
Part B Recv Date: 961205
Generator EPA ID: NYD986997047
Trans1 EPA ID: NJD986608941
Trans2 EPA ID: Not reported
TSDF ID: NJD002454544
Waste Code: F003 - UNKNOWN
Quantity: 00075
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 96

Document ID: NJA2745011
Manifest Status: Completed copy
Trans1 State ID: 10339
Trans2 State ID: Not reported
Generator Ship Date: 970326
Trans1 Recv Date: 970326
Trans2 Recv Date: Not reported
TSD Site Recv Date: 970327
Part A Recv Date: 970404
Part B Recv Date: 970409
Generator EPA ID: NYD986997047
Trans1 EPA ID: NJD986608941
Trans2 EPA ID: Not reported
TSDF ID: NJD002454544
Waste Code: F003 - UNKNOWN
Quantity: 00055
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 97

Document ID: NJA3094506
Manifest Status: Not reported
Trans1 State ID: NJD080631369
Trans2 State ID: Not reported
Generator Ship Date: 06/26/2000
Trans1 Recv Date: 06/26/2000

BARGE AUTO BODY INC (Continued) 1000693639

Trans2 Recv Date: Not reported
TSD Site Recv Date: 07/07/2000
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD986997047
Trans1 EPA ID: NJD002454544
Trans2 EPA ID: Not reported
TSDF ID: 50160
Waste Code: F003 - UNKNOWN
Quantity: 00165
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 01.00
Year: 2000

Document ID: NJA1987215
Manifest Status: Completed copy
Trans1 State ID: 10339
Trans2 State ID: Not reported
Generator Ship Date: 940914
Trans1 Recv Date: 940914
Trans2 Recv Date: Not reported
TSD Site Recv Date: 940915
Part A Recv Date: 940922
Part B Recv Date: 940923
Generator EPA ID: NYD986997047
Trans1 EPA ID: NJD986608941
Trans2 EPA ID: Not reported
TSDF ID: NJD002454544
Waste Code: F003 - UNKNOWN
Quantity: 00065
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 94

N71 EDR US Hist Auto Stat 1015435705
ESE N/A
1/8-1/4 **34 COFFEY ST**
0.221 mi. **BROOKLYN, NY 11231**
1165 ft. **Site 3 of 4 in cluster N**

Relative: EDR Historical Auto Stations:
Lower
Name: M & L AUTO REPAIR
Year: 2007
Actual: Address: 34 COFFEY ST
6 ft.

Name: M & L AUTO REPAIR
Year: 2008
Address: 34 COFFEY ST

Name: DESTINATION TOWING & AUTOBODY INC
Year: 2011

(Continued) 1015435705

Address: 34 COFFEY ST

Name: DESTINATION TOWING & AUTOBODY INC
Year: 2012
Address: 34 COFFEY ST

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72 NNE 1/8-1/4 0.223 mi. 1179 ft. — **CON EDISON SERVICE BOX: 42105**, **115 SULLIVAN ST**, **BROOKLYN, NY 11231** — RCRA NonGen / NLR — 1016454143, NYP004311031

Relative: Lower
Actual: 7 ft.

RCRA NonGen / NLR:
Date form received by agency: 06/10/2013
Facility name: CON EDISON SERVICE BOX: 42105
Facility address: 115 SULLIVAN ST
BROOKLYN, NY 11231
EPA ID: NYP004311031
Mailing address: VING PL, 15TH FL NE
NEW YORK, NY 10003
Contact: THOMAS TEELING
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (212) 460-3770
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 05/10/2013
Facility name: CON EDISON SERVICE BOX: 42105
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

73 North 1/8-1/4 0.224 mi. 1182 ft. — **CUPIE BUS**, **165 WOLCOTT STREET**, **BROOKLYN, NY 11231** — UST — U004078324, N/A

Relative: Higher
Actual: 9 ft.

UST:
Id/Status: 2-600048 / Unregulated
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: 2006-04-08
UTM X: 583300.53348999994
UTM Y: 4503498.9708700003
Site Type: Trucking/Transportation/Fleet Operation

Affiliation Records:
Site Id: 22036
Affiliation Type: Facility Owner
Company Name: CUPIE BUS
Contact Type: Not reported
Contact Name: Not reported
Address1: 165 WOLCOTT STREET
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11231
Country Code: 001
Phone: (718) 855-6050
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 22036
Affiliation Type: Mail Contact
Company Name: CUPIE BUS
Contact Type: Not reported
Contact Name: LARRY GIUNTA
Address1: 165 WOLCOTT STREET
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11231
Country Code: 001
Phone: (718) 855-6050
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 22036
Affiliation Type: On-Site Operator
Company Name: CUPIE BUS
Contact Type: Not reported
Contact Name: LARRY GIUNTA
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN

CUPIE BUS (Continued) U004078324

Zip Code:	Not reported
Country Code:	001
Phone:	(718) 855-6050
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	22036
Affiliation Type:	Emergency Contact
Company Name:	CUPIE BUS
Contact Type:	Not reported
Contact Name:	LARRY GIUNTA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 855-6050
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank ID:	41188
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	01/01/2003
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None

CUPIE BUS (Continued) U004078324

Tank Number:	002
Tank ID:	41189
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	01/01/2003
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None

Tank Number:	003
Tank ID:	41190
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	6000
Install Date:	Not reported
Date Tank Closed:	01/01/2003
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Tightness Test Method:	03
Date Test:	11/04/1999
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
G00 - Tank Secondary Containment - None

CUPIE BUS (Continued) U004078324

I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None

Tank Number:	004
Tank ID:	41191
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	500
Install Date:	Not reported
Date Tank Closed:	01/01/2003
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
I00 - Overfill - None

Tank Number:	005
Tank ID:	41192
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	01/01/2002
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

CUPIE BUS (Continued) U004078324

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None

Tank Number:	006
Tank ID:	41193
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	6000
Install Date:	Not reported
Date Tank Closed:	01/01/2003
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
I00 - Overfill - None
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None

N74 **H & R SHEET METAL CORP** **RCRA NonGen / NLR** **1000446378**
ESE **31 COFFEY ST** **FINDS** **NYD001329713**
1/8-1/4 **BROOKLYN, NY 11231** **MANIFEST**
0.224 mi.
1183 ft. **Site 4 of 4 in cluster N**

Relative:
Lower

Actual:
6 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	H & R SHEET METAL CORP
Facility address:	31 COFFEY ST BROOKLYN, NY 112311509
EPA ID:	NYD001329713
Mailing address:	COFFEY ST BROOKLYN, NY 11231
Contact:	Not reported

H & R SHEET METAL CORP (Continued) 1000446378

Contact address: COFFEY ST
BROOKLYN, NY 11231
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: H & R SHEET METAL CORP
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: H & R SHEET METAL CORP
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: H & R SHEET METAL CORP
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: H & R SHEET METAL CORP
Classification: Not a generator, verified

H & R SHEET METAL CORP (Continued) 1000446378

Date form received by agency: 08/01/1990
Facility name: H & R SHEET METAL CORP
Classification: Large Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 07/22/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

FINDS:

Registry ID: 110001593990

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:
EPA ID: NYD001329713
Country: USA

Mailing Info:
Name: H & R SHEET METAL MANUFACTURING CO
Contact: CAMILLE DUDLEY
Address: 31 CUFFEY STREET
City/State/Zip: BROOKLYN, NY 11231
Country: USA
Phone: 000-000-0000

Document ID: NJA0802615
Manifest Status: Completed copy
Trans1 State ID: S8690
Trans2 State ID: S8690
Generator Ship Date: 901024
Trans1 Recv Date: 901024
Trans2 Recv Date: 901024
TSD Site Recv Date: 901025
Part A Recv Date: 901106
Part B Recv Date: 901113
Generator EPA ID: NYD001329713
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: ILD051060408
TSDF ID: NJD002182897
Waste Code: F003 - UNKNOWN
Quantity: 00970
Units: P - Pounds
Number of Containers: 002

H & R SHEET METAL CORP (Continued) 1000446378

Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	90

Document ID:	NJA0802613
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	S8690
Trans2 State ID:	S8690
Generator Ship Date:	901019
Trans1 Recv Date:	901019
Trans2 Recv Date:	901029
TSD Site Recv Date:	901030
Part A Recv Date:	901226
Part B Recv Date:	901114
Generator EPA ID:	NYD001329713
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	ILD051060408
TSDF ID:	NJD002182897
Waste Code:	F003 - UNKNOWN
Quantity:	07760
Units:	P - Pounds
Number of Containers:	016
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	90

O75
NE
1/8-1/4
0.225 mi.
1186 ft.

NYC DEPT OF ED - PUBLIC SCHOOL 15K
71 SULLIVAN ST
BROOKLYN, NY 11231

AST U003394322
HIST AST N/A
MANIFEST
NY Spills

Site 1 of 6 in cluster O

Relative:
Higher

Actual:
8 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-356069
Program Type:	PBS
UTM X:	583558.50693000003
UTM Y:	4503384.9398600003
Expiration Date:	2018-06-28
Site Type:	School

Affiliation Records:

Site Id:	17770
Affiliation Type:	Emergency Contact
Company Name:	NEW YORK CITY DEPARTMENT OF EDUCATION
Contact Type:	Not reported
Contact Name:	SCHOOL SAFETY
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999

NYC DEPT OF ED - PUBLIC SCHOOL 15K (Continued) U003394322

Phone:	(718) 935-3300
EMail:	Not reported
Fax Number:	Not reported
Modified By:	GDBREEN
Date Last Modified:	3/3/2014

Site Id:	17770
Affiliation Type:	Facility Owner
Company Name:	NEW YORK CITY DEPARTMENT OF EDUCATION
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	44-36 VERNON BOULEVARD
Address2:	Not reported
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 349-5752
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2/10/2014

Site Id:	17770
Affiliation Type:	Mail Contact
Company Name:	NYC DEPARTMENT OF EDUCATION
Contact Type:	Not reported
Contact Name:	MUNENDRA SHARMA
Address1:	FIELD OPERATIONS-FUEL DIVISION
Address2	44-36 VERNON BOULEVARD
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 349-5752
EMail:	MSHARMA@SCHOOLS.NYC.GOV
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	3/25/2014

Site Id:	17770
Affiliation Type:	On-Site Operator
Company Name:	PUBLIC SCHOOL 15 - BROOKLYN K015
Contact Type:	Not reported
Contact Name:	PLANT OPERATIONS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 349-5400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	5/7/2013

NYC DEPT OF ED - PUBLIC SCHOOL 15K (Continued) U003394322

Tank Info:

Tank Number:	001
Tank Id:	34760
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating
I04 - Overfill - Product Level Gauge (A/G)
C03 - Pipe Location - Aboveground/Underground Combination
E00 - Piping Secondary Containment - None
F01 - Pipe External Protection - Painted/Asphalt Coating
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G02 - Tank Secondary Containment - Vault (w/access)
J02 - Dispenser - Suction Dispenser
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1968
Capacity Gallons:	7500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NRLOMBAR
Last Modified:	10/03/2013
Material Name:	#4 Fuel Oil (On-Site Consumption)

Tank Number:	002
Tank Id:	34761
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)

Equipment Records:

C03 - Pipe Location - Aboveground/Underground Combination
E00 - Piping Secondary Containment - None
F01 - Pipe External Protection - Painted/Asphalt Coating
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
K00 - Spill Prevention - None
B01 - Tank External Protection - Painted/Asphalt Coating
I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G02 - Tank Secondary Containment - Vault (w/access)
J02 - Dispenser - Suction Dispenser

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron

NYC DEPT OF ED - PUBLIC SCHOOL 15K (Continued) U003394322

Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1968
Capacity Gallons:	7500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NRLOMBAR
Last Modified:	10/03/2013
Material Name:	#4 Fuel Oil (On-Site Consumption)

HIST AST:

PBS Number:	2-356069
SWIS Code:	6101
Operator:	PLANT OPERATION
Facility Phone:	(718) 391-6000
Facility Addr2:	71 SULLIVAN STREET
Facility Type:	SCHOOL
Emergency:	SCHOOL SAFETY
Emergency Tel:	(212) 979-3300
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	CITY OF NEW YORK C/O BOARD OF EDUCATION
Owner Address:	28-11 QUEENS PLAZA NORTH
Owner City,St,Zip:	LONG ISLAND CITY, NY 11101
Federal ID:	Not reported
Owner Tel:	(718) 391-6832
Owner Type:	Local Government
Owner Subtype:	Not reported
Mailing Contact:	FRANK CARDELLO NTROL
Mailing Name:	BOARD OF EDUCATION
Mailing Address:	28-11 QUEENS PLAZA NORTH
Mailing Address 2:	5TH FLOOR
Mailing City,St,Zip:	LONG ISLAND CITY, NY 11101
Mailing Telephone:	(718) 391-6832
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	09/02/1998
Expiration:	06/28/2003
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	15000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61

NYC DEPT OF ED - PUBLIC SCHOOL 15K (Continued) U003394322

Town or City Code:	01
Region:	2

Tank ID:	001
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	In Service
Install Date:	Not reported
Capacity (Gal):	7500
Product Stored:	NOS 5 OR 6 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	Diking
Leak Detection:	0
Overfill Protection:	4
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

Tank ID:	002
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	In Service
Install Date:	Not reported
Capacity (Gal):	7500
Product Stored:	NOS 5 OR 6 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	Diking
Leak Detection:	0
Overfill Protection:	4
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

NYC DEPT OF ED - PUBLIC SCHOOL 15K (Continued) U003394322

NY MANIFEST:

EPA ID:	NYR000183293
Country:	USA

Mailing Info:

Name:	NYC DEPT OF ED - PUBLIC SCHOOL 15K
Contact:	NYC SCHOOL CONSTRUCTION AUTHORITY-PS 15K
Address:	30-30 THOMSON AVENUE
City/State/Zip:	LONG ISLAND CITY, NY 11101
Country:	USA
Phone:	718-330-9280

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD054126164
Trans2 State ID:	Not reported
Generator Ship Date:	2011-09-02
Trans1 Recv Date:	2011-09-02
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2011-09-21
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000183293
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	Not reported
Quantity:	1.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	008574700JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H132

SPILLS:

Facility ID:	1208660
Facility Type:	ER
DER Facility ID:	425991
Site ID:	471723
DEC Region:	2
Spill Date:	10/29/2012
Spill Number/Closed Date:	1208660 / 4/23/2013
Spill Cause:	Storm

NYC DEPT OF ED - PUBLIC SCHOOL 15K (Continued) U003394322

Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	SFRAHMAN
Referred To:	Not reported
Reported to Dept:	11/2/2012
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	11/2/2012
Spill Record Last Update:	4/23/2013
Spiller Name:	BOB KANAPERTHI
Spiller Company:	STORM DAMAGE
Spiller Address:	71 SULLIVAN STREET
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	999
Contact Name:	BOB KANAPERTHI
Contact Phone:	(718) 752-8620
DEC Memo:	11/03/12-Hiralkumar Patel. visited site. met Pete Mischler from Board of Education and Erik Nimlos from AKRF. site has two 7,500 gal #6 oil ASTs on saddles. during storm. tank room flooded with water and caused damage to saddles for tank #1 located closer to tank room entrance. front sadddle was completely separated from the tank and back saddle was lifted from the floor. the entire tank was holding on middle saddle. Pete mentioned that both tanks are filled with oil/water mix. there was no damage to tanks itself and no active leak from the tanks. initially crew was asked to pump out entire amount from tank #1. but tank contained heavy #6 oil and there was no pre-heat. so pumping with available equipments was not possible. and also as tank was not leaking. Pete agreed to just pump out oil/water mixture from tank room floor so crew from Brookside Environmental can enter into tank room for further work. Op-Tech crew pumped out 660 gal oil/water mix from tank room floor. afterward. Brookside Environmental secured the the tank #1 by supporting front end with wood. as tank was steady and secured. left site after cleaning the room. Pete mentioned that school is getting two temporary tanks and they will work on damaged tanks lateron. asked Pete to seal the fill ports to avoid any misdelivery to damaged tanks.Pete MischlerNYC Board of EducationPh. (646) 210-7920 (C)email: pmischl@schools.nyc.govErik NimlosAKRFPh. (914) 922-2385 (917) 613-5977 (C)Fax (914) 949-7559email: enimlos@akrf.com** Closure report in edocs.**
Remarks:	storm damage - clean up pending

Material:

Site ID:	471723
Operable Unit ID:	1221579
Operable Unit:	01
Material ID:	2220232
Material Code:	0002A
Material Name:	#4 Fuel Oil

NYC DEPT OF ED - PUBLIC SCHOOL 15K (Continued) U003394322

Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

O76 NE 1/8-1/4 0.225 mi. 1186 ft. **NYC DEPT OF ED - PUBLIC SCHOOL 15K** RCRA-SQG 1014919541
71 SULLIVAN ST NYR000183293
BROOKLYN, NY 11231

Site 2 of 6 in cluster O

Relative: Higher

Actual: 8 ft.

RCRA-SQG:

Date form received by agency:	07/22/2011
Facility name:	NYC DEPT OF ED - PUBLIC SCHOOL 15K
Facility address:	71 SULLIVAN ST BROOKLYN, NY 11231
EPA ID:	NYR000183293
Mailing address:	THOMSON AVE LONG ISLAND CITY, NY 11101
Contact:	ALEXANDER LEMPERT
Contact address:	THOMSON AVE LONG ISLAND CITY, NY 11101
Contact country:	US
Contact telephone:	(718) 472-8501
Contact email:	ALEMPERT@NYCSCA.ORG
EPA Region:	02
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NEW YORK CITY DEPT OF EDUCATION
Owner/operator address:	THOMSON AVE LONG ISLAND CITY, NY 11101
Owner/operator country:	US
Owner/operator telephone:	(718) 472-8501
Legal status:	Municipal
Owner/Operator Type:	Owner
Owner/Op start date:	03/13/1959
Owner/Op end date:	Not reported
Owner/operator name:	NYC DEPT OF SCHOOL FACILITIES
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Municipal
Owner/Operator Type:	Operator

NYC DEPT OF ED - PUBLIC SCHOOL 15K (Continued) **1014919541**

Owner/Op start date: 03/13/1969
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:
Waste code: B004
Waste name: B004

Waste code: B007
Waste name: B007

Violation Status: No violations found

M77 SE 1/8-1/4 0.226 mi. 1192 ft. **H W RAMBERG INC**
37 VAN DYKE ST
BROOKLYN, NY 11231

RCRA NonGen / NLR **1000871906**
FINDS **NY0000103580**

Site 2 of 2 in cluster M

Relative: Lower
Actual: 3 ft.

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: H W RAMBERG INC
Facility address: 37 VAN DYKE ST
BROOKLYN, NY 112311590
EPA ID: NY0000103580
Mailing address: VAN DYKE ST
BROOKLYN, NY 112311590
Contact: Not reported
Contact address: VAN DYKE ST
BROOKLYN, NY 112311590
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: HW RAMBERG INC
Owner/operator address: 37 VAN DYKE ST

H W RAMBERG INC (Continued) **1000871906**

BROOKLYN, NY 11231
Owner/operator country: US
Owner/operator telephone: (718) 625-3960
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: HW RAMBERG INC
Owner/operator address: 37 VAN DYKE ST
BROOKLYN, NY 11231
Owner/operator country: US
Owner/operator telephone: (718) 625-3960
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: H W RAMBERG INC
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: H W RAMBERG INC
Classification: Not a generator, verified

Date form received by agency: 01/28/1994
Facility name: H W RAMBERG INC
Classification: Small Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 11/19/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

H W RAMBERG INC (Continued) **1000871906**

FINDS:

Registry ID: 110004311726

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

O78 NE 1/8-1/4 0.227 mi. 1196 ft. **PREMIUM RUSH MILL**
74 SULLIVAN ST
BROOKLYN, NY 11231

RCRA NonGen / NLR **1014399552**
NYR000176412

Site 3 of 6 in cluster O

Relative: Higher

Actual: 8 ft.

RCRA NonGen / NLR:
Date form received by agency: 10/19/2010
Facility name: PREMIUM RUSH MILL
Facility address: 74 SULLIVAN ST
BROOKLYN, NY 11231
EPA ID: NYR000176412
Mailing address: W WASHINGTON BLVD BURNS 274
CULVER CITY, CA 90232
Contact: CAROL REYNOLDS
Contact address: W WASHINGTON BLVD BURNS 274
CULVER CITY, CA 90232
Contact country: US
Contact telephone: (310) 244-8866
Contact email: CAROL_REYNOLDS@SPE.SONY.COM
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: HIGH TECH PARK
Owner/operator address: SULLIVAN ST
BROOKLYN, NY 11231
Owner/operator country: US
Owner/operator telephone: (917) 414-3200
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 02/01/1997
Owner/Op end date: Not reported

Owner/operator name: COLUMBIA PICTURES INDUSTRIES INC
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 06/21/2010
Owner/Op end date: Not reported

PREMIUM RUSH MILL (Continued) **1014399552**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 06/29/2010
Facility name: PREMIUM RUSH MILL
Classification: Small Quantity Generator

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D035
Waste name: METHYL ETHYL KETONE

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

PREMIUM RUSH MILL (Continued) **1014399552**

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D035
Waste name: METHYL ETHYL KETONE

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

---

79 SE 1/8-1/4 0.227 mi. 1200 ft. **NYCDEP** **DEWIGHT ST & BEARD ST** **BROOKLYN, NY** **MANIFEST** **1009235627** **N/A**

Relative: Lower **Actual: 1 ft.**

NY MANIFEST:
EPA ID: NYP003660990
Country: USA

Mailing Info:
Name: NYCDEP
Contact: ELIE SAINT-JEAN
Address: 59-17 JUNCTION BLVD
City/State/Zip: FLUSHING, NY 11368
Country: USA
Phone: 718-595-5774

Document ID: NYG1003545
Manifest Status: Not reported
Trans1 State ID: NYD077444263
Trans2 State ID: Not reported
Generator Ship Date: 03/27/2000

NYCDEP (Continued) **1009235627**

Trans1 Recv Date: 03/27/2000
Trans2 Recv Date: Not reported
TSD Site Recv Date: 03/28/2000
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP003660990
Trans1 EPA ID: NYD077444263
Trans2 EPA ID: Not reported
TSDF ID: PD1010NY
Waste Code: D002 - NON-LISTED CORROSIVE WASTES
Quantity: 00003
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Year: 2000

O80 NE 1/8-1/4 0.229 mi. 1208 ft. **CON EDISON** **OPP 66 SULLIVAN ST AND VAN BRUNT ST** **BROOKLYN, NY 11231** **MANIFEST** **S113495564** **N/A**

Site 4 of 6 in cluster O

Relative: Higher **Actual: 8 ft.**

NY MANIFEST:
EPA ID: NYP004292736
Country: USA

Mailing Info:
Name: CON EDISON
Contact: TOM TEELING
Address: 4 IRVING PLACE - 15TH FLOOR
City/State/Zip: NEW YORK, NY 10003
Country: USA
Phone: 212-460-3770

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NJD003812047
Trans2 State ID: Not reported
Generator Ship Date: 2013-03-11
Trans1 Recv Date: 2013-03-11
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2013-03-11
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP004292736
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NJD991291105
Waste Code: Not reported
Quantity: 800
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 1
Container Type: TT - Cargo tank, tank trucks
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 1

CON EDISON (Continued) S113495564

Year: 2013
Manifest Tracking Num: 002016606GBF
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

O81
NE
1/8-1/4
0.229 mi.
1208 ft.

CON EDISON MANHOLE: 67160 — RCRA NonGen / NLR — 1016450250
66 SULLIVAN ST — NYP004292736
BROOKLYN, NY 11231

Site 5 of 6 in cluster O

Relative:
Higher

Actual:
8 ft.

RCRA NonGen / NLR:
Date form received by agency: 04/11/2013
Facility name: CON EDISON MANHOLE: 67160
Facility address: 66 SULLIVAN ST
BROOKLYN, NY 11231
EPA ID: NYP004292736
Contact: ANTHONY SIGNORE
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (718) 802-3008
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 03/11/2013
Facility name: CON EDISON MANHOLE: 67160
Classification: Conditionally Exempt Small Quantity Generator

CON EDISON MANHOLE: 67160 (Continued) 1016450250

Violation Status: No violations found

O82
NE
1/8-1/4
0.229 mi.
1211 ft.

64 SULLIVAN ST — EDR US Hist Auto Stat — 1015587065
BROOKLYN, NY 11231 — N/A

Site 6 of 6 in cluster O

Relative:
Higher

Actual:
8 ft.

EDR Historical Auto Stations:
Name: RALPHS AUTO BODY
Year: 2000
Address: 64 SULLIVAN ST

Name: RALPHS AUTO BODY
Year: 2001
Address: 64 SULLIVAN ST

Name: RALPHS AUTO BODY
Year: 2002
Address: 64 SULLIVAN ST

Name: RALPHS AUTO BODY
Year: 2003
Address: 64 SULLIVAN ST

Name: RALPHS AUTO BODY
Year: 2012
Address: 64 SULLIVAN ST

83
ENE
1/8-1/4
0.236 mi.
1244 ft.

BROOKHATTAN SMELTING & REFINING CO. — CERCLIS — 1015754902
162 RICHARDS ST — NYN000206647
BROOKLYN, NY 11231

Relative:
Higher

Actual:
8 ft.

CERCLIS:
Site ID: 0206647
EPA ID: NYN000206647
Facility County: KINGS
Short Name: BROOKHATTAN SMELTING & RE
Congressional District: Not reported
IFMS ID: A22Y
SMSA Number: Not reported
USGC Hydro Unit: Not reported
Federal Facility: Not a Federal Facility
DMNSN Number: 0.00000
Site Orphan Flag: Not reported
RCRA ID: Not reported
USGS Quadrangle: Not reported
Site Init By Prog: S
NFRAP Flag: Not reported
Parent ID: Not reported
RST Code: Not reported
EPA Region: 02
Classification: Not reported
Site Settings Code: Not reported
NPL Status: Not on the NPL

BROOKHATTAN SMELTING & REFINING CO. (Continued) **1015754902**

DMNSN Unit Code:	Not reported
RBRAC Code:	Not reported
RResp Fed Agency Code:	Not reported
Non NPL Status:	Referred to Removal - Further Assessment Needed
Non NPL Status Date.	09/04/13
Site Fips Code:	36047
CC Concurrence Date:	/ /
CC Concurrence FY:	Not reported
Alias EPA ID:	Not reported
Site FUDS Flag:	Not reported

Alias Comments: Not reported

Site Description: On November 14, 2012, EPA visited 162 Richards Street, the address of the former Brookhattan Smelting & Refining Co. facility as indicated in Eckel's report, and found the block containing the address to be occupied by the P.S. 015 Patrick F. Daly public school (entrance address: 71 Sullivan Street). The cornerstone of the school indicated that it was built in 1967. Narrow, vegetated areas of exposed soil were observed between the sidewalk and the north, south, and east sides of the school. An athletic area on the west side of the school contains a large grassy lawn as well as about a dozen street trees growing out of small areas of exposed soil. Satellite imagery (available on GoogleMaps) shows a courtyard that appears to contain vegetation and exposed soil in the center of the school. As shown in the photo log provided in Appendix A, across the street from the 162 Richards Street address (approximately 0.02 mile southeast) are apartment buildings with encompassing lawns. A day care center and a park lie approximately 0.02 mile north-northeast and 0.10 mile northeast of the address, respectively, and there are numerous private residences surrounding the address

CERCLIS Assessment History:

Action Code:	001
Action:	DISCOVERY
Date Started:	/ /
Date Completed:	11/28/12
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	PRE-CERCLIS SCREENING
Date Started:	/ /
Date Completed:	11/28/12
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

BROOKHATTAN SMELTING & REFINING CO. (Continued) **1015754902**

Action Code:	001
Action:	PRELIMINARY ASSESSMENT
Date Started:	02/14/13
Date Completed:	03/13/13
Priority Level:	Higher priority for further assessment
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	REMOVAL ASSESSMENT
Date Started:	12/18/12
Date Completed:	08/27/13
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	SITE INSPECTION
Date Started:	/ /
Date Completed:	09/04/13
Priority Level:	Higher priority for further assessment
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Click this hyperlink while viewing on your computer to access
17 additional US CERCLIS Financial. record(s) in the EDR Site Report.

84
North **64 FERRIS ST** **EDR US Hist Auto Stat** **1015586962**
1/8-1/4 **BROOKLYN, NY 11231** **N/A**
0.248 mi.
1309 ft.

Relative: EDR Historical Auto Stations:
Higher

Name:	CLASSIC COLLISION INC
Year.	2002
Address:	64 FERRIS ST

Actual:
8 ft.

P85
SE
1/8-1/4
0.248 mi.
1310 ft.

KARBO BRONZE FOUNDRIES
24 VAN DYKE ST
BROOKLYN, NY 11231

UST 1000545996
AST N/A

Site 1 of 2 in cluster P

Relative:
Lower

Actual:
3 ft.

UST:

Id/Status:	2-238732 / Administratively Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	1993-01-07
UTM X:	583560.64971999999
UTM Y:	4502960.7127999999
Site Type:	Unknown

Affiliation Records:

Site Id:	8956
Affiliation Type:	Facility Owner
Company Name:	HUGH J HENNESSEY
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	2080 HENDRICKS AVE
Address2:	Not reported
City:	BELLMORE
State:	NY
Zip Code:	11710
Country Code:	001
Phone:	(516) 785-4646
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	8956
Affiliation Type:	Mail Contact
Company Name:	HUGH J HENNESSEY
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	2080 HENDRICKS AVE
Address2:	Not reported
City:	BELLMORE
State:	NY
Zip Code:	11710
Country Code:	001
Phone:	(516) 785-4646
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	8956
Affiliation Type:	On-Site Operator
Company Name:	KARBO BRONZE FOUNDRIES
Contact Type:	Not reported
Contact Name:	MATTHEW X HENNESSY
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN

KARBO BRONZE FOUNDRIES (Continued) **1000545996**

Zip Code:	Not reported
Country Code:	001
Phone:	(718) 625-6126
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	8956
Affiliation Type:	Emergency Contact
Company Name:	HUGH J HENNESSEY
Contact Type:	Not reported
Contact Name:	KEVIN OBRIEN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(516) 783-1836
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank ID:	25130
Tank Status:	Administratively Closed
Material Name:	Administratively Closed
Capacity Gallons:	550
Install Date:	01/01/1970
Date Tank Closed:	05/01/1996
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
H00 - Tank Leak Detection - None
D00 - Pipe Type - No Piping
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
G03 - Tank Secondary Containment - Vault (w/o access)

KARBO BRONZE FOUNDRIES (Continued) 1000545996

Tank Number: 002
Tank ID: 25131
Tank Status: Administratively Closed
Material Name: Administratively Closed
Capacity Gallons: 1080
Install Date: 01/01/1968
Date Tank Closed: 05/01/1996
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None

Tank Number: 003
Tank ID: 25132
Tank Status: Administratively Closed
Material Name: Administratively Closed
Capacity Gallons: 2500
Install Date: 01/01/1965
Date Tank Closed: 05/01/1996
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser

KARBO BRONZE FOUNDRIES (Continued) 1000545996

B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)

AST:
Region: STATE
DEC Region: 2
Site Status: Administratively Closed
Facility Id: 2-238732
Program Type: PBS
UTM X: 583560.64971999999
UTM Y: 4502960.7127999999
Expiration Date: 1993-01-07
Site Type: Unknown

Affiliation Records:
Site Id: 8956
Affiliation Type: Facility Owner
Company Name: HUGH J HENNESSEY
Contact Type: Not reported
Contact Name: Not reported
Address1: 2080 HENDRICKS AVE
Address2: Not reported
City: BELLMORE
State: NY
Zip Code: 11710
Country Code: 001
Phone: (516) 785-4646
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 8956
Affiliation Type: Mail Contact
Company Name: HUGH J HENNESSEY
Contact Type: Not reported
Contact Name: Not reported
Address1: 2080 HENDRICKS AVE
Address2: Not reported
City: BELLMORE
State: NY
Zip Code: 11710
Country Code: 001
Phone: (516) 785-4646
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 8956
Affiliation Type: On-Site Operator
Company Name: KARBO BRONZE FOUNDRIES
Contact Type: Not reported
Contact Name: MATTHEW X HENNESSY
Address1: Not reported

KARBO BRONZE FOUNDRIES (Continued) 1000545996

Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 625-6126
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	8956
Affiliation Type:	Emergency Contact
Company Name:	HUGH J HENNESSEY
Contact Type:	Not reported
Contact Name:	KEVIN OBRIEN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(516) 783-1836
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	004
Tank Id:	25133
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Administratively Closed
Pipe Model:	Not reported
Install Date:	01/01/1960
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	05/01/1996
Register:	True
Modified By:	TRANSLAT

KARBO BRONZE FOUNDRIES (Continued) 1000545996

Last Modified:	03/04/2004
Material Name:	#2 Fuel Oil (On-Site Consumption)

Tank Number:	005
Tank Id:	25134
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records.

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Administratively Closed
Pipe Model:	Not reported
Install Date:	01/01/1960
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	05/01/1996
Register:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Material Name:	#2 Fuel Oil (On-Site Consumption)

P86 **EDR US Hist Auto Stat** 1015378225
SE **27 VAN DYKE ST** N/A
1/8-1/4 **BROOKLYN, NY 11231**
0.249 mi.
1314 ft. **Site 2 of 2 in cluster P**

Relative:
Lower

Actual:
3 ft.

EDR Historical Auto Stations:

Name:	COLLISIONVILLE INCORPORATED SCOFLOCK YARD
Year:	2000
Address:	27 VAN DYKE ST

Q87 **ACCURATE ASBESTOS** **SWF/LF** S105841701
North **39 FERRIS STREET** N/A
1/4-1/2 **BROOKLYN, NY 11231**
0.289 mi.
1528 ft. **Site 1 of 2 in cluster Q**

Relative:
Lower

Actual:
5 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	7185226106
Owner Name:	Accurate Asbestos Transport, Inc.
Owner Type:	Private

ACCURATE ASBESTOS (Continued) S105841701

Owner Address:	39 Ferris Street
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11231
Owner Email:	Not reported
Owner Phone:	7185226106
Contact Name:	FRANK CAMPO
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - permit
Activity Number:	[24TA0]
Active:	No
East Coordinate:	583231
North Coordinate:	4503657
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6102-00009
Authorization Date:	Not reported
Expiration Date:	Not reported

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88 ESE 1/4-1/2 0.291 mi. 1538 ft. **WHALECO FUEL CORP**
1 COFFEY ST
BROOKLYN, NY 11231

LTANKS S103037949
MANIFEST N/A

Relative: Lower
Actual: 5 ft.

LTANKS:

Site ID:	218796
Spill Number/Closed Date:	9714140 / 2/6/2006
Spill Date:	3/20/1998
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	JGJONES
Referred To:	Not reported
Reported to Dept:	3/20/1998
CID:	365
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	3/20/1998
Spill Record Last Update:	4/24/2006
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller County:	999
Spiller Contact:	MIKE CAFIERO

WHALECO FUEL CORP (Continued) S103037949

Spiller Phone:	(718) 354-3835
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	180981
DEC Memo:	Closed Feb 6 2006 on basis of letter received Nov. 16, 2005 from Petro Commercial Services.
Remarks:	CALLER RECEIVED LABA DATA FROM SOIL BORINGS THAT INDICATED CONTAMINATION

Material:

Tank Test:

NY MANIFEST:

EPA ID:	NYP000861781
Country:	USA

Mailing Info:

Name:	WHALECO FUEL CORP
Contact:	WHALECO FUEL CORP
Address:	1 COFFEY STREET
City/State/Zip:	BROOKLYN, NY 11231
Country:	USA
Phone:	718-852-7000

NY MANIFEST:

No Manifest Records Available

Q89 North 1/4-1/2 0.307 mi. 1622 ft. **PORT AUTHORITY MARINE**
32 FERRIS STREET
BROOKLYN, NY

LTANKS S104516926
N/A

Site 2 of 2 in cluster Q

Relative: Lower
Actual: 3 ft.

LTANKS:

Site ID:	96987
Spill Number/Closed Date:	9914821 / 10/9/2001
Spill Date:	3/28/2000
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	TOMASELLO
Referred To:	Not reported
Reported to Dept:	3/31/2000
CID:	389
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0

PORT AUTHORITY MARINE (Continued) **S104516926**

Date Entered In Computer: 3/31/2000
Spill Record Last Update: 3/2/2005
Spiller Name: Not reported
Spiller Company: PORT AUTHORITY OF NY & NJ
Spiller Address: 90 COLUMBIA STREET
Spiller City,St,Zip: BROOKLYN, NY
Spiller County: 001
Spiller Contact: CALLER
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 86455
DEC Memo: This is a State facility - see notes in State Agency Environmental Audit Database (under facility #4672)
Remarks: caller reporting a spill of material in the amount around 10 yardsno clean up was done and no callback is necessary back in 1992 it failed a tank test upon removing tank to visible holes were found yet

Material:
Site ID: 96987
Operable Unit ID: 1092716
Operable Unit: 01
Material ID: 293105
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

R90 SE 1/4-1/2 0.321 mi. 1695 ft. **IKEA RED HOOK**
1 BEARD STREET
BROOKLYN, NY

Site 1 of 3 in cluster R

RCRA NonGen / NLR **1000147962**
FINDS **NYD981558299**
SWRCY
LTANKS
MANIFEST
NY Spills

Relative: Lower

Actual: 2 ft.

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: ROYAL MARINE TANK CLEANING INC
Facility address: 1 BEARD ST
BROOKLYN, NY 112311548
EPA ID: NYD981558299
Mailing address: PO BOX 8273
UNION CITY, NY 07087
Contact: Not reported
Contact address: PO BOX 8273
UNION CITY, NY 07087
Contact country: US
Contact telephone: Not reported
Contact email: Not reported

IKEA RED HOOK (Continued) **1000147962**

EPA Region: 02
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: JOSE FIGUEIREDO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: JOSE FIGUEIREDO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: ROYAL MARINE TANK CLEANING INC
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: ROYAL MARINE TANK CLEANING INC
Classification: Not a generator, verified

Date form received by agency: 10/01/1986
Facility name: ROYAL MARINE TANK CLEANING INC
Classification: Large Quantity Generator

IKEA RED HOOK (Continued) **1000147962**

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 07/22/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

FINDS:

Registry ID: 110010172963

Environmental Interest/Information System
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

Registry ID: 110009473211

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Registry ID: 110002368492

Environmental Interest/Information System
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain

IKEA RED HOOK (Continued) **1000147962**

limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

SWRCY:
Region: 2
Facility Address 2: Not reported
Phone Number: 7182374040
Owner Type: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner Address 2: Not reported
Owner City,St,Zip: Not reported
Owner Email: Not reported
Owner Phone: Not reported
Contact Name: MINGLAI CHEN
Contact Address: Not reported
Contact Address 2: Not reported
Contact City,St,Zip: Not reported
Contact Email: Not reported
Contact Phone: Not reported
Activity Desc: RHRF - registration
Activity Number: [24MD1]
Active: No
East Coordinate: Not reported
North Coordinate: Not reported
Accuracy Code: Not reported
Regulatory Status: Not reported
Permit #: Not reported
Auth. Date: Not reported
Expiration Date: Not reported
Waste Types: Not reported

LTANKS:
Site ID: 300291
Spill Number/Closed Date: 9210149 / 3/10/2003
Spill Date: 12/2/1992
Spill Cause: Tank Overfill
Spill Source: Commercial/Industrial
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False

IKEA RED HOOK (Continued) 1000147962

SWIS:	2401
Investigator:	KSTANG
Referred To:	Not reported
Reported to Dept:	12/2/1992
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	12/2/1992
Spill Record Last Update:	3/10/2003
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	242912
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TANG"10/10/95: This Is Additional Information About Material Spilled From The Translation Of The Old Spill File: Sheen.03/10/2003- Closed Due To The Nature / Extent Of The Spill Report.
Remarks:	DURING TANK EXCAVATION CONTAMINATED SOIL & G/W DISCOVERED-WILL PULL TANKS IF POSSIBLE AND CLOSE OTHERS-STOCKPILE,TEST AND DISPOSED 1PLS NOTIFY KOON TANG

Material:

Site ID:	300291
Operable Unit ID:	974254
Operable Unit:	01
Material ID:	558995
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	222502
Spill Number/Closed Date:	9103482 / 3/14/2003
Spill Date:	6/28/1991
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

IKEA RED HOOK (Continued) 1000147962

Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	ADMIN. CLOSED
Referred To:	Not reported
Reported to Dept:	6/28/1991
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	7/1/1991
Spill Record Last Update:	3/14/2003
Spiller Name:	Not reported
Spiller Company:	NY SHIPYARD CO
Spiller Address:	1 BEARD ST
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facilty ID:	242912
DEC Memo:	Not reported
Remarks:	(2) 550'S MANIFOLDED, FAILED HORNER EZY CHECK; GROSS LEAK-FAULTY FILL-PIPE, OWNER WILL EXCAVATE, REPLACE PIPE, & RETESTCLOSED DUE TO LACK OF ANY RECENT INFO - DOES NOT MEET ANY CLEANUP REQUIREMENTS.

Material:

Site ID:	222502
Operable Unit ID:	954301
Operable Unit:	01
Material ID:	425915
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	222502
Spill Tank Test:	1538712
Tank Number:	Not reported
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

IKEA RED HOOK (Continued) **1000147962**

Site ID:	300290
Spill Number/Closed Date:	9012051 / 2/19/1991
Spill Date:	2/19/1991
Spill Cause:	Tank Overfill
Spill Source:	Vessel
Spill Class:	Not reported
Cleanup Ceased:	2/19/1991
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	KSTANG
Referred To:	Not reported
Reported to Dept:	2/19/1991
CID:	Not reported
Water Affected:	ERIE BASIN
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2/27/1991
Spill Record Last Update:	12/11/2002
Spiller Name:	Not reported
Spiller Company:	NY SHIPYARD/PIER 5
Spiller Address:	1 BEARD STREET
Spiller City,St,Zip:	BROOKLYN, NY 11231
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	242912
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TANG"02/19/91: USCG (P O JONES) WAS ON SCENE CLAIMS 1800GAL TANK MOUNTED ON BARGE WHICH IS A WORKER BARGE,TANK OVERFILLED INTO SECONDARY CONTAINMENT & THE DRAIN PLUG OF THE CONTAINMENT WAS REMOVED,OIL LEAKED OUT.
Remarks:	USCG ON SCENE,FUEL SPILLED ONTO BARGE DECK & INTO WATER,BARGE OWNED BYNY SHIPYARD,EMPLOYEES AROUND BARGE WILL PERFORM INHOUSE CLEAN UP,USCG & NYCOEM NOTIFIED,NRC #60209.

Material:

Site ID:	300290
Operable Unit ID:	949075
Operable Unit:	01
Material ID:	428561
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	50
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

IKEA RED HOOK (Continued) **1000147962**

NY MANIFEST:

EPA ID:	NYD986957272
Country:	USA

Mailing Info:

Name:	NEW YORK SHIP YARD
Contact:	KEVIN A NUGENT
Address:	ONE BEARD STREET
City/State/Zip:	BROOKLYN, NY 11231
Country:	USA
Phone:	718-237-4040

Document ID:	NJA0250180
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NJDEPS624
Trans2 State ID:	Not reported
Generator Ship Date:	861104
Trans1 Recv Date:	861104
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	861104
Part A Recv Date:	861218
Part B Recv Date:	861118
Generator EPA ID:	NYD981558299
Trans1 EPA ID:	NJD084044064
Trans2 EPA ID:	Not reported
TSDF ID:	NJD084044064
Waste Code:	X721 - WASTE OIL FROM GAS STATION (NJ ONLY)
Quantity:	01950
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment
Specific Gravity:	100
Year:	86

EPA ID:	NYD981558299
Country:	USA

Mailing Info:

Name:	ROYAL MARINE TANK CLEANING
Contact:	ROYAL MARINE TANK CLEANING
Address:	PO BOX 8273
City/State/Zip:	UNION CITY, NJ 07087
Country:	USA
Phone:	201-420-7564

Document ID:	NJA0250180
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NJDEPS624
Trans2 State ID:	Not reported
Generator Ship Date:	861104
Trans1 Recv Date:	861104
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	861104
Part A Recv Date:	861218
Part B Recv Date:	861118

IKEA RED HOOK (Continued) 1000147962

Generator EPA ID:	NYD981558299
Trans1 EPA ID:	NJD084044064
Trans2 EPA ID:	Not reported
TSDF ID:	NJD084044064
Waste Code:	X721 - WASTE OIL FROM GAS STATION (NJ ONLY)
Quantity:	01950
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	86

EPA ID:	NYR000024976
Country:	USA

Mailing Info:

Name:	ONE BEARD STREET LLC
Contact:	XENOPHON MANDAS
Address:	420 ALLENWOOD ROAD
City/State/Zip:	CONSHOHOCKEN, PA 19428
Country:	USA
Phone:	718-499-0155

Document ID:	NJA0250180
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NJDEPS624
Trans2 State ID:	Not reported
Generator Ship Date:	861104
Trans1 Recv Date:	861104
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	861104
Part A Recv Date:	861218
Part B Recv Date:	861118
Generator EPA ID:	NYD981558299
Trans1 EPA ID:	NJD084044064
Trans2 EPA ID:	Not reported
TSDF ID:	NJD084044064
Waste Code:	X721 - WASTE OIL FROM GAS STATION (NJ ONLY)
Quantity:	01950
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	86

SPILLS:

Facility ID:	9007000
Facility Type:	ER
DER Facility ID:	242912
Site ID:	300288
DEC Region:	2
Spill Date:	9/26/1990
Spill Number/Closed Date:	9007000 / 2/4/1998
Spill Cause:	Human Error

IKEA RED HOOK (Continued) 1000147962

Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	WILSON
Referred To:	Not reported
Reported to Dept:	9/26/1990
CID:	Not reported
Water Affected:	ERIE BASIN
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	10/3/1990
Spill Record Last Update:	12/11/2002
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	BOOMED OFF AREA, TO PICK UP & DISPOSE.

Material:

Site ID:	300288
Operable Unit ID:	947524
Operable Unit:	01
Material ID:	434429
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	9005511
Facility Type:	ER
DER Facility ID:	242912
Site ID:	300287
DEC Region:	2
Spill Date:	8/19/1990
Spill Number/Closed Date:	9005511 / 8/19/1990
Spill Cause:	Unknown
Spill Class:	Not reported
SWIS:	2401

IKEA RED HOOK (Continued) 1000147962

Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	8/19/1990
CID:	Not reported
Water Affected:	ERIE BASIN
Spill Source:	Vessel
Spill Notifier:	Responsible Party
Cleanup Ceased:	8/19/1990
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	8/20/1990
Spill Record Last Update:	12/11/2002
Spiller Name:	Not reported
Spiller Company:	NY SHIPYARD
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	BOOMING OFF SPILL, USCG NOTIFIED.

Material:

Site ID:	300287
Operable Unit ID:	943055
Operable Unit:	01
Material ID:	436554
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	20
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	9213505
Facility Type:	ER
DER Facility ID:	242912
Site ID:	133782
DEC Region:	2
Spill Date:	3/8/1993
Spill Number/Closed Date:	9213505 / 3/9/1993
Spill Cause:	Human Error
Spill Class:	Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	O'DOWD
Referred To:	Not reported
Reported to Dept:	3/8/1993

IKEA RED HOOK (Continued) 1000147962

CID:	Not reported
Water Affected:	ERIE BASIN AREA
Spill Source:	Vessel
Spill Notifier:	Federal Government
Cleanup Ceased:	3/9/1993
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	3/9/1993
Spill Record Last Update:	1/17/2003
Spiller Name:	Not reported
Spiller Company:	GLENWOOD LITE-TANK BARGE
Spiller Address:	Not reported
Spiller City,St,Zip:	BAYONNE, NJ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	UNK. REASON FOR VESSEL TANK OVERFILL - OIL TO WATERWAY - BOOMS APPLIED, DECK CLEANED - WILL APPLY SORBENT PADS - USCG ENROUTE NOTIF WILL NOTIFY NRC - USCG TO NOTIFY NYC DEP.

Material:

Site ID:	133782
Operable Unit ID:	980675
Operable Unit:	01
Material ID:	557047
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False
Site ID:	133782
Operable Unit ID:	980675
Operable Unit:	01
Material ID:	557046
Material Code:	0002A
Material Name:	#4 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	50
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	9109213
Facility Type:	ER

IKEA RED HOOK (Continued) 1000147962

DER Facility ID:	242912
Site ID:	222503
DEC Region:	2
Spill Date:	11/27/1991
Spill Number/Closed Date:	9109213 / 11/27/1991
Spill Cause:	Deliberate
Spill Class:	Not reported
SWIS:	2401
Investigator:	FINGER
Referred To:	Not reported
Reported to Dept:	11/27/1991
CID:	Not reported
Water Affected:	ERIE BASIN
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	11/27/1991
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	12/3/1991
Spill Record Last Update:	12/11/2002
Spiller Name:	Not reported
Spiller Company:	AMERTECH INDUSTRIES
Spiller Address:	VAN DYKE ST
Spiller City,St,Zip:	BROOKLYN, ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	DYE RELEASED ONTO DOCK. AUTOMATIC PUMPS DUMPED MAT'L INTO BASIN. HARMLESS BUT BRIGHT GREEN IN COLOR. USCG RESPONDING.

Material:

Site ID:	222503
Operable Unit ID:	963166
Operable Unit:	01
Material ID:	417860
Material Code:	1723A
Material Name:	SPECTRO TEST LIQUID
Case No.:	Not reported
Material FA:	Other
Quantity:	500
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	0709238
Facility Type:	ER
DER Facility ID:	339869
Site ID:	390280
DEC Region:	2

IKEA RED HOOK (Continued) 1000147962

Spill Date:	11/26/2007
Spill Number/Closed Date:	0709238 / 12/11/2007
Spill Cause:	Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	11/26/2007
CID:	408
Water Affected:	ERIE BASIN
Spill Source:	Vessel
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	11/26/2007
Spill Record Last Update:	12/11/2007
Spiller Name:	Not reported
Spiller Company:	NOT DETERMINED
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	999
Contact Name:	ROBERT SCHMIDT
Contact Phone:	(973) 315-0200
DEC Memo:	DER/Albany was notified on 11/26/07 of a barge sinking/oil spill at an IKEA department store construction site along Erie Basin in Brooklyn. This barge had no fuel on it, other than the fuel and hydraulic oil in a front end loader that was on this vessel. To compound the problem, a second barge drifted over this sunk barge, and then sank on top of it. The barge's owner placed boom around the sunk barges, and a contractor was hired to collect the product as it rose to the water's surface. It was estimated that thee was approximately 50 gallons of diesel fuel and over 100 gallons of hydraulic fluid. The US Coast Guard will develop a salvage plan with the barge owner. CLosed.
Remarks:	HYDRALYIC OIL IS VEGTABLE BASED AND ENVIRO FRIENDLY; VESSEL SUNK AND ESCAVATOR WAS ON IT; AREA WAS BOONED;

Material:

Site ID:	390280
Operable Unit ID:	1147385
Operable Unit:	01
Material ID:	2137785
Material Code:	0010
Material Name:	Hydraulic Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False
Site ID:	390280
Operable Unit ID:	1147385

IKEA RED HOOK (Continued) **1000147962**

Operable Unit:	01
Material ID:	2137784
Material Code:	0908
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	20
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

R91 SE 1/4-1/2 0.321 mi. 1695 ft. **U. S. DREDGING SHIPYARD SITE**
ONE BEARD STREET
BROOKLYN, NY 11231

ENG CONTROLS S106906480
INST CONTROL N/A
BROWNFIELDS

Site 2 of 3 in cluster R

Relative: Lower
Actual: 2 ft.

ENG CONTROLS:

Site Code:	57800
HW Code:	C224043
Control Code:	13
Control Type:	ENG
Date Record Added:	05/25/2008
Date Rec Updated:	08/24/2012
Updated By:	SRHEIGEL

Site Description: Location: The U.S. Dredging site is 48 acre former industrial property in a commercial and industrial area along Beard Street in the Red Hook area of Brooklyn. Site Features: About 25 acres of the 48-acre site are underwater in the Erie Basin. Past Use of the Site: Until early 2005, a ship repair facility and a variety of small industrial and commercial operations occupied the nineteen on-site buildings. Since the 1860s shipyards and related ship maintenance and repair operations have occupied the site. Historically, shipyards have utilized a variety of hazardous materials, including petroleum products, solvents, PCBs, and heavy metals such as mercury, arsenic, lead, and copper. Most of the upland portion of the site was created by filling in the basin at different points in the sites history. The fill materials used at the site are unknown, but may have included coal and incinerator ash, demolition debris, and industrial wastes, which commonly were used as fill throughout the City in past decades. Site Geology and Hydrogeology: Prior to being filled in, the entire site had been marsh land or under water. Groundwater tends to flow toward the adjacent Erie Basin.Site Remediation and Management: Remediation activities commenced in January 2006 and continued prior to, and during site redevelopment activities through June 2008 when a furniture store opened at the site.The Final Engineering Report was approved on June 17, 2008. The Certificate of Completion was signed on that date. Site Management, has commenced in accordance with the Department-approved Site Management Plan that consists of sub-slab depressurization systems and engineering and institutional

U. S. DREDGING SHIPYARD SITE (Continued) **S106906480**

controls.The site is under site management with periodic soil vapor sampling and periodic certifications.

Env Problem: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were various petroleum products, volatile organic compounds (VOCs), and polychlorinated biphenyls (PCBs) related to site activities. Polycyclic aromatic hydrocarbons (PAHs) and metals were also present due to site activities and the historic fill across the entire site. Site investigations showed that metals and PAH contamination is ubiquitous to all soils at the site. The sediment in the Erie basin was similarly contaminated.Beginning in the 1860s, shipyards and related ship maintenance and repair operations occupied the Site. Historically, shipyards have utilized a variety of hazardous materials, including petroleum products, solvents, polychlorinated biphenyls (PCBs), and heavy metals (used in marine paints) such as mercury, arsenic, lead, and copper. Large portions of the site were filled in at different points in the sites history. The fill materials used at the site included coal and incinerator ash, demolition debris. During the site investigations,ninety-nine soil samples were collected from 80 locations, thirteen groundwater monitoring wells were constructed on-site and sampled twice, thirty-six sediment samples were collected from the Erie Basin, five composite samples were collected from three waste piles,twenty-three samples of sludge or soil were collected from drainage structures, sumps and manholes,two samples of stained wood flooring were collected,five samples of stained concrete flooring were collected,wipe samples were collected from the floors of the seven electrical substations,thirteen soil gas monitoring wells were installed to collect soil gas samplesthree wipe samples and one bulk dust sample were collected from ducts associated with a former dust collection system, andfifty-eight soil gas sampling points were constructed and sampled for organic vapors analyses and speciation.PAHs and heavy metals were detected in most of the soil samples at concentrations well above TAGM values and regional background. Most of the PAHs and much of the metals contamination is heterogeneously present through the entire site and is largely attributed to the historic fill. Site activities were the cause the elevated concentrations of arsenic, copper, lead, and mercury found in some on-site locations that are well above the amounts typically found in urban fill. There were TCLP failures for lead at three locations that were excavated for off-site disposal. Some of the soil samples also exhibited elevated concentrations of VOCs and/or PCBs related to site activities. VOC and PCB impacted soil was remediated via excavation to TAGM 4046 cleanup objectives. Two rounds of groundwater sampling found that none of the PAHs, VOCs, nor PCB contamination found in the soil are significantly impacting groundwater. When the groundwater was sampled using a low-flow technique to minimize suspended solids during the second round, the metals concentrations were found to be below groundwater standards in all but three instances. Organic vapors, primarily methane, were detected in 35 of the soil gas sampling locations. Vapor barriers and sub-slab depressurization systems (SSDSs) were constructed in all locations (except support columns) that the large Ikea building contacts the ground. Three planned satellite buildings will also have SSDSs.The site does not present a significant environmental threat

Health Problem: Since some contaminated soils remain at the site below concrete or clean backfill, people will not come into contact with contaminated soils unless they dig below the surface. People are not coming into

U. S. DREDGING SHIPYARD SITE (Continued) **S106906480**

contact with contaminated groundwater since the area is served by a public water supply that is not affected by this contamination. A sub-slab depressurization was installed in the on-site retail building to prevent vapors beneath the slab from entering the building.

INST CONTROL:
Site Code: 57800
Control Name: Site Management Plan
HW Code: C224043
Control Code: 32
Control Type: INST
Dt record added: 06/25/2008
Dt rec updated: 08/24/2012
Updated By: SRHEIGEL
Site Code: 57800
Site Description: Location: The U.S. Dredging site is 48 acre former industrial property in a commercial and industrial area along Beard Street in the Red Hook area of Brooklyn. Site Features: About 25 acres of the 48-acre site are underwater in the Erie Basin. Past Use of the Site: Until early 2005, a ship repair facility and a variety of small industrial and commercial operations occupied the nineteen on-site buildings. Since the 1860s shipyards and related ship maintenance and repair operations have occupied the site. Historically, shipyards have utilized a variety of hazardous materials, including petroleum products, solvents, PCBs, and heavy metals such as mercury, arsenic, lead, and copper. Most of the upland portion of the site was created by filling in the basin at different points in the sites history. The fill materials used at the site are unknown, but may have included coal and incinerator ash, demolition debris, and industrial wastes, which commonly were used as fill throughout the City in past decades. Site Geology and Hydrogeology: Prior to being filled in, the entire site had been marsh land or under water. Groundwater tends to flow toward the adjacent Erie Basin.Site Remediation and Management: Remediation activities commenced in January 2006 and continued prior to, and during site redevelopment activities through June 2008 when a furniture store opened at the site.The Final Engineering Report was approved on June 17, 2008. The Certificate of Completion was signed on that date. Site Management, has commenced in accordance with the Department-approved Site Management Plan that consists of sub-slab depressurization systems and engineering and institutional controls.The site is under site management with periodic soil vapor sampling and periodic certifications.
Env Problem: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were various petroleum products, volatile organic compounds (VOCs), and polychlorinated biphenyls (PCBs) related to site activities. Polycyclic aromatic hydrocarbons (PAHs) and metals were also present due to site activities and the historic fill across the entire site. Site investigations showed that metals and PAH contamination is ubiquitous to all soils at the site. The sediment in the Erie basin was similarly contaminated.Beginning in the 1860s, shipyards and related ship maintenance and repair operations occupied the Site. Historically, shipyards have utilized a variety of hazardous materials, including petroleum products, solvents, polychlorinated biphenyls (PCBs), and heavy metals (used in marine paints) such as mercury, arsenic, lead, and copper. Large portions of the site were filled in at different points in the sites

U. S. DREDGING SHIPYARD SITE (Continued) **S106906480**

history. The fill materials used at the site included coal and incinerator ash, demolition debris. During the site investigations,ninety-nine soil samples were collected from 80 locations, thirteen groundwater monitoring wells were constructed on-site and sampled twice, thirty-six sediment samples were collected from the Erie Basin, five composite samples were collected from three waste piles,twenty-three samples of sludge or soil were collected from drainage structures, sumps and manholes,two samples of stained wood flooring were collected,five samples of stained concrete flooring were collected,wipe samples were collected from the floors of the seven electrical substations,thirteen soil gas monitoring wells were installed to collect soil gas samplesthree wipe samples and one bulk dust sample were collected from ducts associated with a former dust collection system, andfifty-eight soil gas sampling points were constructed and sampled for organic vapors analyses and speciation.PAHs and heavy metals were detected in most of the soil samples at concentrations well above TAGM values and regional background. Most of the PAHs and much of the metals contamination is heterogeneously present through the entire site and is largely attributed to the historic fill. Site activities were the cause the elevated concentrations of arsenic, copper, lead, and mercury found in some on-site locations that are well above the amounts typically found in urban fill. There were TCLP failures for lead at three locations that were excavated for off-site disposal. Some of the soil samples also exhibited elevated concentrations of VOCs and/or PCBs related to site activities. VOC and PCB impacted soil was remediated via excavation to TAGM 4046 cleanup objectives. Two rounds of groundwater sampling found that none of the PAHs, VOCs, nor PCB contamination found in the soil are significantly impacting groundwater. When the groundwater was sampled using a low-flow technique to minimize suspended solids during the second round, the metals concentrations were found to be below groundwater standards in all but three instances. Organic vapors, primarily methane, were detected in 35 of the soil gas sampling locations. Vapor barriers and sub-slab depressurization systems (SSDSs) were constructed in all locations (except support columns) that the large Ikea building contacts the ground. Three planned satellite buildings will also have SSDSs.The site does not present a significant environmental threat.
Health Problem: Since some contaminated soils remain at the site below concrete or clean backfill, people will not come into contact with contaminated soils unless they dig below the surface. People are not coming into contact with contaminated groundwater since the area is served by a public water supply that is not affected by this contamination. A sub-slab depressurization was installed in the on-site retail building to prevent vapors beneath the slab from entering the building.

Site Code: 57800
Control Name: Ground Water Use Restriction
HW Code: C224043
Control Code: 08
Control Type: INST
Dt record added: 06/25/2008
Dt rec updated: 08/24/2012
Updated By: SRHEIGEL
Site Code: 57800
Site Description: Location: The U.S. Dredging site is 48 acre former industrial

U. S. DREDGING SHIPYARD SITE (Continued) S106906480

property in a commercial and industrial area along Beard Street in the Red Hook area of Brooklyn. Site Features: About 25 acres of the 48-acre site are underwater in the Erie Basin. Past Use of the Site: Until early 2005, a ship repair facility and a variety of small industrial and commercial operations occupied the nineteen on-site buildings. Since the 1860s shipyards and related ship maintenance and repair operations have occupied the site. Historically, shipyards have utilized a variety of hazardous materials, including petroleum products, solvents, PCBs, and heavy metals such as mercury, arsenic, lead, and copper. Most of the upland portion of the site was created by filling in the basin at different points in the sites history. The fill materials used at the site are unknown, but may have included coal and incinerator ash, demolition debris, and industrial wastes, which commonly were used as fill throughout the City in past decades. Site Geology and Hydrogeology: Prior to being filled in, the entire site had been marsh land or under water. Groundwater tends to flow toward the adjacent Erie Basin.Site Remediation and Management: Remediation activities commenced in January 2006 and continued prior to, and during site redevelopment activities through June 2008 when a furniture store opened at the site.The Final Engineering Report was approved on June 17, 2008. The Certificate of Completion was signed on that date. Site Management, has commenced in accordance with the Department-approved Site Management Plan that consists of sub-slab depressurization systems and engineering and institutional controls.The site is under site management with periodic soil vapor sampling and periodic certifications.

Env Problem: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were various petroleum products, volatile organic compounds (VOCs), and polychlorinated biphenyls (PCBs) related to site activities. Polycyclic aromatic hydrocarbons (PAHs) and metals were also present due to site activities and the historic fill across the entire site. Site investigations showed that metals and PAH contamination is ubiquitous to all soils at the site. The sediment in the Erie basin was similarly contaminated.Beginning in the 1860s, shipyards and related ship maintenance and repair operations occupied the Site. Historically, shipyards have utilized a variety of hazardous materials, including petroleum products, solvents, polychlorinated biphenyls (PCBs), and heavy metals (used in marine paints) such as mercury, arsenic, lead, and copper. Large portions of the site were filled in at different points in the sites history. The fill materials used at the site included coal and incinerator ash, demolition debris. During the site investigations,ninety-nine soil samples were collected from 80 locations, thirteen groundwater monitoring wells were constructed on-site and sampled twice, thirty-six sediment samples were collected from the Erie Basin, five composite samples were collected from three waste piles,twenty-three samples of sludge or soil were collected from drainage structures, sumps and manholes,two samples of stained wood flooring were collected,five samples of stained concrete flooring were collected,wipe samples were collected from the floors of the seven electrical substations,thirteen soil gas monitoring wells were installed to collect soil gas samplesthree wipe samples and one bulk dust sample were collected from ducts associated with a former dust collection system, andfifty-eight soil gas sampling points were constructed and sampled for organic vapors analyses and speciation.PAHs and heavy metals were detected in most of the soil samples at concentrations well above TAGM values and regional

U. S. DREDGING SHIPYARD SITE (Continued) S106906480

background. Most of the PAHs and much of the metals contamination is heterogeneously present through the entire site and is largely attributed to the historic fill. Site activities were the cause the elevated concentrations of arsenic, copper, lead, and mercury found in some on-site locations that are well above the amounts typically found in urban fill. There were TCLP failures for lead at three locations that were excavated for off-site disposal. Some of the soil samples also exhibited elevated concentrations of VOCs and/or PCBs related to site activities. VOC and PCB impacted soil was remediated via excavation to TAGM 4046 cleanup objectives. Two rounds of groundwater sampling found that none of the PAHs, VOCs, nor PCB contamination found in the soil are significantly impacting groundwater. When the groundwater was sampled using a low-flow technique to minimize suspended solids during the second round, the metals concentrations were found to be below groundwater standards in all but three instances. Organic vapors, primarily methane, were detected in 35 of the soil gas sampling locations. Vapor barriers and sub-slab depressurization systems (SSDSs) were constructed in all locations (except support columns) that the large Ikea building contacts the ground. Three planned satellite buildings will also have SSDSs.The site does not present a significant environmental threat.

Health Problem: Since some contaminated soils remain at the site below concrete or clean backfill, people will not come into contact with contaminated soils unless they dig below the surface. People are not coming into contact with contaminated groundwater since the area is served by a public water supply that is not affected by this contamination. A sub-slab depressurization was installed in the on-site retail building to prevent vapors beneath the slab from entering the building.

Site Code: 57800
Control Name: Soil Management Plan
HW Code: C224043
Control Code: 14
Control Type: INST
Dt record added: 06/25/2008
Dt rec updated: 08/24/2012
Updated By: SRHEIGEL
Site Code: 57800

Site Description: Location: The U.S. Dredging site is 48 acre former industrial property in a commercial and industrial area along Beard Street in the Red Hook area of Brooklyn. Site Features: About 25 acres of the 48-acre site are underwater in the Erie Basin. Past Use of the Site: Until early 2005, a ship repair facility and a variety of small industrial and commercial operations occupied the nineteen on-site buildings. Since the 1860s shipyards and related ship maintenance and repair operations have occupied the site. Historically, shipyards have utilized a variety of hazardous materials, including petroleum products, solvents, PCBs, and heavy metals such as mercury, arsenic, lead, and copper. Most of the upland portion of the site was created by filling in the basin at different points in the sites history. The fill materials used at the site are unknown, but may have included coal and incinerator ash, demolition debris, and industrial wastes, which commonly were used as fill throughout the City in past decades. Site Geology and Hydrogeology: Prior to being filled in, the entire site had been marsh land or under water. Groundwater tends to flow toward the adjacent Erie Basin.Site Remediation and Management:

U. S. DREDGING SHIPYARD SITE (Continued) S106906480

Remediation activities commenced in January 2006 and continued prior to, and during site redevelopment activities through June 2008 when a furniture store opened at the site.The Final Engineering Report was approved on June 17, 2008. The Certificate of Completion was signed on that date. Site Management, has commenced in accordance with the Department-approved Site Management Plan that consists of sub-slab depressurization systems and engineering and institutional controls.The site is under site management with periodic soil vapor sampling and periodic certifications.

Env Problem: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were various petroleum products, volatile organic compounds (VOCs), and polychlorinated biphenyls (PCBs) related to site activities. Polycyclic aromatic hydrocarbons (PAHs) and metals were also present due to site activities and the historic fill across the entire site. Site investigations showed that metals and PAH contamination is ubiquitous to all soils at the site. The sediment in the Erie basin was similarly contaminated.Beginning in the 1860s, shipyards and related ship maintenance and repair operations occupied the Site. Historically, shipyards have utilized a variety of hazardous materials, including petroleum products, solvents, polychlorinated biphenyls (PCBs), and heavy metals (used in marine paints) such as mercury, arsenic, lead, and copper. Large portions of the site were filled in at different points in the sites history. The fill materials used at the site included coal and incinerator ash, demolition debris. During the site investigations,ninety-nine soil samples were collected from 80 locations, thirteen groundwater monitoring wells were constructed on-site and sampled twice, thirty-six sediment samples were collected from the Erie Basin, five composite samples were collected from three waste piles,twenty-three samples of sludge or soil were collected from drainage structures, sumps and manholes,two samples of stained wood flooring were collected,five samples of stained concrete flooring were collected,wipe samples were collected from the floors of the seven electrical substations,thirteen soil gas monitoring wells were installed to collect soil gas samplesthree wipe samples and one bulk dust sample were collected from ducts associated with a former dust collection system, andfifty-eight soil gas sampling points were constructed and sampled for organic vapors analyses and speciation.PAHs and heavy metals were detected in most of the soil samples at concentrations well above TAGM values and regional background. Most of the PAHs and much of the metals contamination is heterogeneously present through the entire site and is largely attributed to the historic fill. Site activities were the cause the elevated concentrations of arsenic, copper, lead, and mercury found in some on-site locations that are well above the amounts typically found in urban fill. There were TCLP failures for lead at three locations that were excavated for off-site disposal. Some of the soil samples also exhibited elevated concentrations of VOCs and/or PCBs related to site activities. VOC and PCB impacted soil was remediated via excavation to TAGM 4046 cleanup objectives. Two rounds of groundwater sampling found that none of the PAHs, VOCs, nor PCB contamination found in the soil are significantly impacting groundwater. When the groundwater was sampled using a low-flow technique to minimize suspended solids during the second round, the metals concentrations were found to be below groundwater standards in all but three instances. Organic vapors, primarily methane, were detected in 35 of the soil gas sampling locations. Vapor barriers and

U. S. DREDGING SHIPYARD SITE (Continued) S106906480

sub-slab depressurization systems (SSDSs) were constructed in all locations (except support columns) that the large Ikea building contacts the ground. Three planned satellite buildings will also have SSDSs.The site does not present a significant environmental threat.

Health Problem: Since some contaminated soils remain at the site below concrete or clean backfill, people will not come into contact with contaminated soils unless they dig below the surface. People are not coming into contact with contaminated groundwater since the area is served by a public water supply that is not affected by this contamination. A sub-slab depressurization was installed in the on-site retail building to prevent vapors beneath the slab from entering the building.

Site Code: 57800
Control Name: Landuse Restriction
HW Code: C224043
Control Code: 25
Control Type: INST
Dt record added: 06/25/2008
Dt rec updated: 08/24/2012
Updated By: SRHEIGEL
Site Code: 57800

Site Description: Location: The U.S. Dredging site is 48 acre former industrial property in a commercial and industrial area along Beard Street in the Red Hook area of Brooklyn. Site Features: About 25 acres of the 48-acre site are underwater in the Erie Basin. Past Use of the Site: Until early 2005, a ship repair facility and a variety of small industrial and commercial operations occupied the nineteen on-site buildings. Since the 1860s shipyards and related ship maintenance and repair operations have occupied the site. Historically, shipyards have utilized a variety of hazardous materials, including petroleum products, solvents, PCBs, and heavy metals such as mercury, arsenic, lead, and copper. Most of the upland portion of the site was created by filling in the basin at different points in the sites history. The fill materials used at the site are unknown, but may have included coal and incinerator ash, demolition debris, and industrial wastes, which commonly were used as fill throughout the City in past decades Site Geology and Hydrogeology: Prior to being filled in, the entire site had been marsh land or under water. Groundwater tends to flow toward the adjacent Erie Basin.Site Remediation and Management Remediation activities commenced in January 2006 and continued prior to, and during site redevelopment activities through June 2008 when a furniture store opened at the site.The Final Engineering Report was approved on June 17, 2008. The Certificate of Completion was signed on that date. Site Management, has commenced in accordance with the Department-approved Site Management Plan that consists of sub-slab depressurization systems and engineering and institutional controls.The site is under site management with periodic soil vapor sampling and periodic certifications.

Env Problem: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were various petroleum products, volatile organic compounds (VOCs), and polychlorinated biphenyls (PCBs) related to site activities. Polycyclic aromatic hydrocarbons (PAHs) and metals were also present due to site activities and the historic fill across the entire site. Site investigations showed that metals and PAH contamination is ubiquitous to all soils at the site. The sediment in the Erie basin was similarly contaminated.Beginning

U. S. DREDGING SHIPYARD SITE (Continued) S106906480

in the 1860s, shipyards and related ship maintenance and repair operations occupied the Site. Historically, shipyards have utilized a variety of hazardous materials, including petroleum products, solvents, polychlorinated biphenyls (PCBs), and heavy metals (used in marine paints) such as mercury, arsenic, lead, and copper. Large portions of the site were filled in at different points in the sites history. The fill materials used at the site included coal and incinerator ash, demolition debris. During the site investigations,ninety-nine soil samples were collected from 80 locations, thirteen groundwater monitoring wells were constructed on-site and sampled twice, thirty-six sediment samples were collected from the Erie Basin, five composite samples were collected from three waste piles,twenty-three samples of sludge or soil were collected from drainage structures, sumps and manholes,two samples of stained wood flooring were collected,five samples of stained concrete flooring were collected,wipe samples were collected from the floors of the seven electrical substations,thirteen soil gas monitoring wells were installed to collect soil gas samplesthree wipe samples and one bulk dust sample were collected from ducts associated with a former dust collection system, andfifty-eight soil gas sampling points were constructed and sampled for organic vapors analyses and speciation.PAHs and heavy metals were detected in most of the soil samples at concentrations well above TAGM values and regional background. Most of the PAHs and much of the metals contamination is heterogeneously present through the entire site and is largely attributed to the historic fill. Site activities were the cause the elevated concentrations of arsenic, copper, lead, and mercury found in some on-site locations that are well above the amounts typically found in urban fill. There were TCLP failures for lead at three locations that were excavated for off-site disposal. Some of the soil samples also exhibited elevated concentrations of VOCs and/or PCBs related to site activities. VOC and PCB impacted soil was remediated via excavation to TAGM 4046 cleanup objectives. Two rounds of groundwater sampling found that none of the PAHs, VOCs, nor PCB contamination found in the soil are significantly impacting groundwater. When the groundwater was sampled using a low-flow technique to minimize suspended solids during the second round, the metals concentrations were found to be below groundwater standards in all but three instances. Organic vapors, primarily methane, were detected in 35 of the soil gas sampling locations. Vapor barriers and sub-slab depressurization systems (SSDSs) were constructed in all locations (except support columns) that the large Ikea building contacts the ground. Three planned satellite buildings will also have SSDSs.The site does not present a significant environmental threat.

Health Problem: Since some contaminated soils remain at the site below concrete or clean backfill, people will not come into contact with contaminated soils unless they dig below the surface. People are not coming into contact with contaminated groundwater since the area is served by a public water supply that is not affected by this contamination. A sub-slab depressurization was installed in the on-site retail building to prevent vapors beneath the slab from entering the building.

Site Code: 57800
Control Name: Environmental Easement
HW Code: C224043
Control Code: J

U. S. DREDGING SHIPYARD SITE (Continued) S106906480

Control Type: INST
Dt record added: 06/25/2008
Dt rec updated: 08/24/2012
Updated By: SRHEIGEL
Site Code: 57800
Site Description: Location: The U.S. Dredging site is 48 acre former industrial property in a commercial and industrial area along Beard Street in the Red Hook area of Brooklyn. Site Features: About 25 acres of the 48-acre site are underwater in the Erie Basin. Past Use of the Site: Until early 2005, a ship repair facility and a variety of small industrial and commercial operations occupied the nineteen on-site buildings. Since the 1860s shipyards and related ship maintenance and repair operations have occupied the site. Historically, shipyards have utilized a variety of hazardous materials, including petroleum products, solvents, PCBs, and heavy metals such as mercury, arsenic, lead, and copper. Most of the upland portion of the site was created by filling in the basin at different points in the sites history. The fill materials used at the site are unknown, but may have included coal and incinerator ash, demolition debris, and industrial wastes, which commonly were used as fill throughout the City in past decades. Site Geology and Hydrogeology: Prior to being filled in, the entire site had been marsh land or under water. Groundwater tends to flow toward the adjacent Erie Basin.Site Remediation and Management: Remediation activities commenced in January 2006 and continued prior to, and during site redevelopment activities through June 2008 when a furniture store opened at the site.The Final Engineering Report was approved on June 17, 2008. The Certificate of Completion was signed on that date. Site Management, has commenced in accordance with the Department-approved Site Management Plan that consists of sub-slab depressurization systems and engineering and institutional controls.The site is under site management with periodic soil vapor sampling and periodic certifications.

Env Problem: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were various petroleum products, volatile organic compounds (VOCs), and polychlorinated biphenyls (PCBs) related to site activities. Polycyclic aromatic hydrocarbons (PAHs) and metals were also present due to site activities and the historic fill across the entire site. Site investigations showed that metals and PAH contamination is ubiquitous to all soils at the site. The sediment in the Erie basin was similarly contaminated.Beginning in the 1860s, shipyards and related ship maintenance and repair operations occupied the Site. Historically, shipyards have utilized a variety of hazardous materials, including petroleum products, solvents, polychlorinated biphenyls (PCBs), and heavy metals (used in marine paints) such as mercury, arsenic, lead, and copper. Large portions of the site were filled in at different points in the sites history. The fill materials used at the site included coal and incinerator ash, demolition debris. During the site investigations,ninety-nine soil samples were collected from 80 locations, thirteen groundwater monitoring wells were constructed on-site and sampled twice, thirty-six sediment samples were collected from the Erie Basin, five composite samples were collected from three waste piles,twenty-three samples of sludge or soil were collected from drainage structures, sumps and manholes,two samples of stained wood flooring were collected,five samples of stained concrete flooring were collected,wipe samples were collected from the floors of the seven electrical substations,thirteen soil gas monitoring

U. S. DREDGING SHIPYARD SITE (Continued) **S106906480**

wells were installed to collect soil gas samplesthree wipe samples and one bulk dust sample were collected from ducts associated with a former dust collection system, andfifty-eight soil gas sampling points were constructed and sampled for organic vapors analyses and speciation.PAHs and heavy metals were detected in most of the soil samples at concentrations well above TAGM values and regional background. Most of the PAHs and much of the metals contamination is heterogeneously present through the entire site and is largely attributed to the historic fill. Site activities were the cause the elevated concentrations of arsenic, copper, lead, and mercury found in some on-site locations that are well above the amounts typically found in urban fill. There were TCLP failures for lead at three locations that were excavated for off-site disposal. Some of the soil samples also exhibited elevated concentrations of VOCs and/or PCBs related to site activities. VOC and PCB impacted soil was remediated via excavation to TAGM 4046 cleanup objectives. Two rounds of groundwater sampling found that none of the PAHs, VOCs, nor PCB contamination found in the soil are significantly impacting groundwater. When the groundwater was sampled using a low-flow technique to minimize suspended solids during the second round, the metals concentrations were found to be below groundwater standards in all but three instances. Organic vapors, primarily methane, were detected in 35 of the soil gas sampling locations. Vapor barriers and sub-slab depressurization systems (SSDSs) were constructed in all locations (except support columns) that the large Ikea building contacts the ground. Three planned satellite buildings will also have SSDSs.The site does not present a significant environmental threat.

Health Problem: Since some contaminated soils remain at the site below concrete or clean backfill, people will not come into contact with contaminated soils unless they dig below the surface. People are not coming into contact with contaminated groundwater since the area is served by a public water supply that is not affected by this contamination. A sub-slab depressurization was installed in the on-site retail building to prevent vapors beneath the slab from entering the building.

BROWNFIELDS:

Program: BCP

Site Code: 57800

Site Description: Location: The U.S. Dredging site is 48 acre former industrial property in a commercial and industrial area along Beard Street in the Red Hook area of Brooklyn. Site Features: About 25 acres of the 48-acre site are underwater in the Erie Basin. Past Use of the Site: Until early 2005, a ship repair facility and a variety of small industrial and commercial operations occupied the nineteen on-site buildings. Since the 1860s shipyards and related ship maintenance and repair operations have occupied the site. Historically, shipyards have utilized a variety of hazardous materials, including petroleum products, solvents, PCBs, and heavy metals such as mercury, arsenic, lead, and copper. Most of the upland portion of the site was created by filling in the basin at different points in the sites history. The fill materials used at the site are unknown, but may have included coal and incinerator ash, demolition debris, and industrial wastes, which commonly were used as fill throughout the City in past decades. Site Geology and Hydrogeology: Prior to being filled in, the entire site had been marsh land or under water. Groundwater tends to flow toward the adjacent Erie Basin.Site Remediation and Management:

U. S. DREDGING SHIPYARD SITE (Continued) **S106906480**

Remediation activities commenced in January 2006 and continued prior to, and during site redevelopment activities through June 2008 when a furniture store opened at the site.The Final Engineering Report was approved on June 17, 2008. The Certificate of Completion was signed on that date. Site Management, has commenced in accordance with the Department-approved Site Management Plan that consists of sub-slab depressurization systems and engineering and institutional controls.The site is under site management with periodic soil vapor sampling and periodic certifications.

Env Problem: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were various petroleum products, volatile organic compounds (VOCs), and polychlorinated biphenyls (PCBs) related to site activities. Polycyclic aromatic hydrocarbons (PAHs) and metals were also present due to site activities and the historic fill across the entire site. Site investigations showed that metals and PAH contamination is ubiquitous to all soils at the site. The sediment in the Erie basin was similarly contaminated.Beginning in the 1860s, shipyards and related ship maintenance and repair operations occupied the Site. Historically, shipyards have utilized a variety of hazardous materials, including petroleum products, solvents, polychlorinated biphenyls (PCBs), and heavy metals (used in marine paints) such as mercury, arsenic, lead, and copper. Large portions of the site were filled in at different points in the sites history. The fill materials used at the site included coal and incinerator ash, demolition debris. During the site investigations,ninety-nine soil samples were collected from 80 locations, thirteen groundwater monitoring wells were constructed on-site and sampled twice, thirty-six sediment samples were collected from the Erie Basin, five composite samples were collected from three waste piles,twenty-three samples of sludge or soil were collected from drainage structures, sumps and manholes,two samples of stained wood flooring were collected,five samples of stained concrete flooring were collected,wipe samples were collected from the floors of the seven electrical substations,thirteen soil gas monitoring wells were installed to collect soil gas samplesthree wipe samples and one bulk dust sample were collected from ducts associated with a former dust collection system, andfifty-eight soil gas sampling points were constructed and sampled for organic vapors analyses and speciation.PAHs and heavy metals were detected in most of the soil samples at concentrations well above TAGM values and regional background. Most of the PAHs and much of the metals contamination is heterogeneously present through the entire site and is largely attributed to the historic fill. Site activities were the cause the elevated concentrations of arsenic, copper, lead, and mercury found in some on-site locations that are well above the amounts typically found in urban fill. There were TCLP failures for lead at three locations that were excavated for off-site disposal. Some of the soil samples also exhibited elevated concentrations of VOCs and/or PCBs related to site activities. VOC and PCB impacted soil was remediated via excavation to TAGM 4046 cleanup objectives. Two rounds of groundwater sampling found that none of the PAHs, VOCs, nor PCB contamination found in the soil are significantly impacting groundwater. When the groundwater was sampled using a low-flow technique to minimize suspended solids during the second round, the metals concentrations were found to be below groundwater standards in all but three instances. Organic vapors, primarily methane, were detected in 35 of the soil gas sampling locations. Vapor barriers and

U. S. DREDGING SHIPYARD SITE (Continued) — **S106906480**

Health Problem: sub-slab depressurization systems (SSDSs) were constructed in all locations (except support columns) that the large Ikea building contacts the ground. Three planned satelite buildings will also have SSDSs.The site does not present a significant environmental threat. Since some contaminated soils remain at the site below concrete or clean backfill, people will not come into contact with contaminated soils unless they dig below the surface. People are not coming into contact with contaminated groundwater since the area is served by a public water supply that is not affected by this contamination. A sub-slab depressurization was installed in the on-site retail building to prevent vapors beneath the slab from entering the building.

R92 SE 1/4-1/2 0.321 mi. 1695 ft. — **U.S. DREDGING SHIPYARD SITE**, **ONE BEARD STREET**, **BROOKLYN, NY 11231** — **VCP** — **S113922119** / **N/A**

Site 3 of 3 in cluster R

Relative: Lower / **Actual: 2 ft.**

VCP:

Program Type:	VCP
Site Code:	57799
HW Code:	V00650
Site Class:	N
SWIS:	2401
Region:	2
Town:	New York City
Acres:	48.050
Date Record Added:	04/10/2003
Date Record Updated:	07/11/2008
Updated By:	MOBARRIE
Site Description:	See Site No. C224043
Env Problem:	Not reported
Health Problem:	Not reported

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93 East 1/4-1/2 0.324 mi. 1710 ft. — **RED HOOK WEST**, **11 LORRAINE STREET**, **BROOKLYN, NY 11231** — **LTANKS** / **UST** / **NY Spills** — **U002034227** / **N/A**

Relative: Higher / **Actual: 9 ft.**

LTANKS:

Site ID:	266649
Spill Number/Closed Date:	9105606 / 12/19/2005
Spill Date:	8/23/1991
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party, Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SWKRASZE
Referred To:	Not reported
Reported to Dept:	8/23/1991
CID:	Not reported
Water Affected:	Not reported

RED HOOK WEST (Continued) — **U002034227**

Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	8/30/1991
Spill Record Last Update:	12/19/2005
Spiller Name:	Not reported
Spiller Company:	NYCHA
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	208277
DEC Memo:	12/19/05: This spill transferred from J.Kolleeny to S.Kraszewski.This spill closed to consolidate with open spill #9510807
Remarks:	15K TANK. HORNER EZ CHECK. VISUAL GROSS LEAK-SYSTEM TEST. WILL REPAIR

Material:

Site ID:	266649
Operable Unit ID:	959938
Operable Unit:	01
Material ID:	421393
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	266649
Spill Tank Test:	1538950
Tank Number:	001
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

Site ID:	303756
Spill Number/Closed Date:	9200022 / 12/19/2005
Spill Date:	4/1/1992
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party, Corrective action taken.

RED HOOK WEST (Continued) U002034227

Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SWKRASZE
Referred To:	Not reported
Reported to Dept:	4/1/1992
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	4/7/1992
Spill Record Last Update:	12/19/2005
Spiller Name:	Not reported
Spiller Company:	NYCHA
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	208277
DEC Memo:	12/19/05: This spill transferred from J.Kolleeny to S.Kraszewski.This spill closed to consolidate with open spill #9510807.
Remarks:	NO ACTION YET DETERMINED

Material:

Site ID:	303756
Operable Unit ID:	967253
Operable Unit:	01
Material ID:	414867
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	303756
Spill Tank Test:	1539810
Tank Number:	001
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

RED HOOK WEST (Continued) U002034227

UST:

Id/Status:	2-601879 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	2014-06-02
UTM X:	583754.80070999998
UTM Y:	4503133.28101
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	23841
Affiliation Type:	On-Site Operator
Company Name:	RED HOOK WEST
Contact Type:	Not reported
Contact Name:	FUEL OIL REMEDIATION UNIT
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 707-5725
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	1/30/2014

Site Id:	23841
Affiliation Type:	Facility Owner
Company Name:	NEW YORK CITY HOUSING AUTHORITY
Contact Type:	FUEL OIL REMEDIATION COORDINATOR
Contact Name:	Not reported
Address1:	23-02 49TH AVENUE
Address2:	Not reported
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 707-5725
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2/11/2014

Site Id:	23841
Affiliation Type:	Mail Contact
Company Name:	NYC HOUSING AUTHORITY
Contact Type:	Not reported
Contact Name:	FUEL OIL REMEDIATION COORDINATOR
Address1:	23-02 49TH AVENUE
Address2:	TECH SERVS DEPT - 5TH FLOOR
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 707-5725

RED HOOK WEST (Continued) U002034227

EMail:	Y.TKACH@NYCHA.NYC.GOV
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	3/25/2014
Site Id:	23841
Affiliation Type:	Emergency Contact
Company Name:	NEW YORK CITY HOUSING AUTHORITY
Contact Type:	Not reported
Contact Name:	EMERGENCY SERVICES DEPT.
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 707-5900
EMail:	Not reported
Fax Number:	Not reported
Modified By:	bkfalvey
Date Last Modified:	6/1/2009

Tank Info:

Tank Number:	001
Tank ID:	48194
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	16000
Install Date:	04/01/1996
Date Tank Closed:	04/01/1996
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
F06 - Pipe External Protection - Wrapped
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)

Tank Number: 1

RED HOOK WEST (Continued) U002034227

Tank ID:	54759
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	10000
Install Date:	05/01/1996
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Fiberglass coated steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	A
Modified By:	NRLOMBAR
Last Modified:	12/30/2008

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
E00 - Piping Secondary Containment - None
G04 - Tank Secondary Containment - Double-Walled (Underground)
C02 - Pipe Location - Underground/On-ground
F02 - Pipe External Protection - Original Sacrificial Anode
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I02 - Overfill - High Level Alarm
F06 - Pipe External Protection - Wrapped
B04 - Tank External Protection - Fiberglass
K01 - Spill Prevention - Catch Basin

SPILLS:

Facility ID:	9510807
Facility Type:	ER
DER Facility ID:	208277
Site ID:	254285
DEC Region:	2
Spill Date:	11/27/1995
Spill Number/Closed Date:	9510807 / Not Reported
Spill Cause:	Equipment Failure
Spill Class:	Known release that creates potential for fire or hazard. DEC Response Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	jkkann
Referred To:	IWP RCVD 7/16/12
Reported to Dept:	11/28/1995
CID:	270
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False

RED HOOK WEST (Continued) U002034227

UST Trust: False
Remediation Phase: 1
Date Entered In Computer: 11/28/1995
Spill Record Last Update: 7/18/2012
Spiller Name: DANNY RANCIC
Spiller Company: ALPS MECHANICAL - NYCHA
Spiller Address: Not reported
Spiller City,St,Zip: BROOKLYN, NY
Spiller Company: 001
Contact Name: FRANK OCELLO
Contact Phone: (212) 306-3229
DEC Memo: 12/19/05: This spill transferred from J.Kolleeny to S.Kraszewski.07/28/06: NYCHA update summary states that one 16K UST installed in 1955 that stored #4 oil was closed in place in 1996. A 10K UST storing #2 oil was installed in 1996 and is currently in service. 13 MWs on site. NYCHA will provide a new site assessment to DEC. - SK02/08/07 : DEC lead changed from S. Kraszewski to J. Kann. J.Kann07/18/12 - J.Kann - IWP received on 7/16/12.
Remarks: FLANGE ON TANK BROKE CLEAN UP IN PROGRESS

Material:
Site ID: 254285
Operable Unit ID: 1021347
Operable Unit: 01
Material ID: 358159
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 3500
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

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94 East 1/4-1/2 0.336 mi. 1774 ft.

RED HOOK WEST
82 DWIGHT STREET - PLANT #8
BROOKLYN, NY 11231

LTANKS U002034226
UST N/A
NY Spills

Relative: Higher
Actual: 9 ft.

LTANKS:
Site ID: 62702
Spill Number/Closed Date: 9011065 / 7/3/1996
Spill Date: 1/17/1991
Spill Cause: Tank Test Failure
Spill Source: Commercial/Industrial
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 2401
Investigator: HEALY
Referred To: Not reported
Reported to Dept: 1/17/1991

RED HOOK WEST (Continued) U002034226

CID: Not reported
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1/29/1991
Spill Record Last Update: 7/3/1996
Spiller Name: Not reported
Spiller Company: NYCHA
Spiller Address: 250 BROADWAY
Spiller City,St,Zip: NEW YORK, NY
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 60755
DEC Memo: Not reported
Remarks: 25K TANK FAILED HORNER EZY CHECK WITH A GROSS LEAK,POSSIBLE FAULTY STICK LINE,WILL REPLACE OR REPAIR & RETEST.

Material:
Site ID: 62702
Operable Unit ID: 948085
Operable Unit: 01
Material ID: 431159
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: -1
Units: Pounds
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: 62702
Spill Tank Test: 1538165
Tank Number: 001
Tank Size: 0
Test Method: 00
Leak Rate: 0
Gross Fail: Not reported
Modified By: Spills
Last Modified: 10/1/2004
Test Method: Unknown

UST:
Id/Status: 2-601878 / Active
Program Type: PBS
Region: STATE
DEC Region: 2

RED HOOK WEST (Continued) U002034226

Expiration Date: 2014-06-02
UTM X: 583739.95926999999
UTM Y: 4503207.7617499996
Site Type: Apartment Building/Office Building

Affiliation Records:

Site Id: 23840
Affiliation Type: On-Site Operator
Company Name: RED HOOK WEST
Contact Type: Not reported
Contact Name: FUEL OIL REMEDIATION UNIT
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 707-5725
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 1/30/2014

Site Id: 23840
Affiliation Type: Facility Owner
Company Name: NEW YORK CITY HOUSING AUTHORITY
Contact Type: FUEL OIL REMEDIATION COORDINATOR
Contact Name: Not reported
Address1: 23-02 49TH AVENUE
Address2: Not reported
City: LONG ISLAND CITY
State: NY
Zip Code: 11101
Country Code: 001
Phone: (718) 707-5725
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2/11/2014

Site Id: 23840
Affiliation Type: Emergency Contact
Company Name: NEW YORK CITY HOUSING AUTHORITY
Contact Type: Not reported
Contact Name: EMERGENCY SERVICES DEPT.
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (718) 707-5900
EMail: Not reported
Fax Number: Not reported
Modified By: bkfalvey
Date Last Modified: 6/1/2009

Site Id: 23840

RED HOOK WEST (Continued) U002034226

Affiliation Type: Mail Contact
Company Name: NYC HOUSING AUTHORITY
Contact Type: Not reported
Contact Name: FUEL OIL REMEDIATION COORDINATOR
Address1: 23-02 49TH AVENUE
Address2: TECH SERVS DEPT - 5TH FLOOR
City: LONG ISLAND CITY
State: NY
Zip Code: 11101
Country Code: 001
Phone: (718) 707-5725
EMail: Y.TKACH@NYCHA.NYC.GOV
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 3/25/2014

Tank Info:

Tank Number: 001
Tank ID: 46193
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 16000
Install Date: 05/01/1955
Date Tank Closed: 05/01/1996
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

J02 - Dispenser - Suction Dispenser
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
B00 - Tank External Protection - None
F06 - Pipe External Protection - Wrapped
I04 - Overfill - Product Level Gauge (A/G)
C00 - Pipe Location - No Piping

Tank Number: 1
Tank ID: 51202
Tank Status: In Service
Material Name: In Service
Capacity Gallons: 20000
Install Date: 05/01/1998
Date Tank Closed: Not reported

RED HOOK WEST (Continued) U002034226

Registered: True
Tank Location: Underground
Tank Type: Fiberglass coated steel
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: A
Modified By: NRLOMBAR
Last Modified: 12/30/2008

Equipment Records:

F06 - Pipe External Protection - Wrapped
E00 - Piping Secondary Containment - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
C02 - Pipe Location - Underground/On-ground
F02 - Pipe External Protection - Original Sacrificial Anode
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I02 - Overfill - High Level Alarm
G04 - Tank Secondary Containment - Double-Walled (Underground)
B04 - Tank External Protection - Fiberglass
K01 - Spill Prevention - Catch Basin

Tank Number: OLD TK #1
Tank ID: 58144
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 25000
Install Date: 04/01/1996
Date Tank Closed: 04/01/1996
Registered: True
Tank Location: Underground
Tank Type: Z
Material Code: ZZZZ
Common Name of Substance: Invalid Material - Please Fix

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
I00 - Overfill - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

RED HOOK WEST (Continued) U002034226

SPILLS:

Facility ID: 9505488
Facility Type: ER
DER Facility ID: 60755
Site ID: 62703
DEC Region: 2
Spill Date: 8/3/1995
Spill Number/Closed Date: 9505488 / 9/17/2013
Spill Cause: Unknown
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 2401
Investigator: jkkann
Referred To: Not reported
Reported to Dept: 8/3/1995
CID: Not reported
Water Affected: Not reported
Spill Source: Institutional, Educational, Gov., Other
Spill Notifier: DEC
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 8/4/1995
Spill Record Last Update: 9/17/2013
Spiller Name: Not reported
Spiller Company: NYC HOUSING AUTHORITY
Spiller Address: Not reported
Spiller City,St,Zip: ZZ
Spiller Company: 001
Contact Name: Not reported
Contact Phone: Not reported
DEC Memo: 12/19/05: This spill transferred from J.Kolleeny to S.Kraszewski.03/23/06: This spill transferred to K.Tang - SK09/23/10: J.Kann - spill transferred from K. Tang to J.Kann. 5/29/12: J.kann - priority p0 assigned to site07/18/12 - J.Kann - IWP received on 7/16/12.9/17/13: J.Kann - entire file reviewed. Letter from Jane Healy Nash dated July 3, 1996 was reviewed and edoced. This letter clearly indicates that based on the review of the TRC investigation (report dated March 1996), the spill at 82 Dwight Street can be closed. The spill for the TTF 9011065 was closed on July 3, 1996; however this spill was for the same tank/same location and was overlooked. The investigation performed by TRC allowing the basis for closure of 9011065 was around the same tank and would justify closure of this spill. NFA.
Remarks: CONTAMINATED SOIL AND WATER FOUND DURING TANK REPLACEMENT

Material:

Site ID: 62703
Operable Unit ID: 1016386
Operable Unit: 01
Material ID: 363480
Material Code: 0003A
Material Name: #6 Fuel Oil
Case No.: Not reported

RED HOOK WEST (Continued) — **U002034226**

Material FA:	Petroleum
Quantity:	-1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

95
ESE
1/4-1/2
0.349 mi.
1843 ft.

ALLSTATE MEDICAL WASTE DISPOSAL; INC.
27-29 BAY STREET
BROOKLYN, NY 11231

SWF/LF — **S105841645**
N/A

Relative:
Lower

Actual:
6 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	JOSEPH SAVINO
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Regulated medical waste - commercial treatment
Activity Number:	[24HB6]
Active:	No
East Coordinate:	583740
North Coordinate:	4503007
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6102-00108
Authorization Date:	Not reported
Expiration Date:	Not reported

96
ESE
1/4-1/2
0.397 mi.
2097 ft.

WASTE MANAGEMENT (EASTERN) (ALLEGRO CART
518-526 COLUMBIA ST
BROOKLYN, NY 11231

SWF/LF — **S105841760**
N/A

Relative:
Lower

Actual:
7 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	7185335308
Owner Name:	Not reported

WASTE MANAGEMENT (EASTERN) (ALLEGRO CART (Continued) — **S105841760**

Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	TARA HEMMER
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - registration
Activity Number:	[24W42]
Active:	No
East Coordinate:	583827
North Coordinate:	4503021
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6101-00002
Authorization Date:	Not reported
Expiration Date:	Not reported

Flag:	INACTIVE
Region Code:	2
Phone Number:	7185335308
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	TARA HEMMER
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - permit
Activity Number:	[24T42]
Active:	No
East Coordinate:	583827
North Coordinate:	4503021
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6101-00002
Authorization Date:	Not reported
Expiration Date:	Not reported

97 ESE 1/4-1/2 0.398 mi. 2101 ft.

MOBIL GAS STATION
50-25 BAY PARKWAY
BROOKLYN, NY

LTANKS S101341041
NY Spills N/A

Relative: Higher

Actual: 8 ft.

LTANKS:

Site ID:	212877
Spill Number/Closed Date:	9407907 / 12/6/1994
Spill Date:	9/14/1994
Spill Cause:	Tank Test Failure
Spill Source:	Gasoline Station
Spill Class:	Not reported
Cleanup Ceased:	12/6/1994
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	O'DOWD
Referred To:	Not reported
Reported to Dept:	9/14/1994
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	10/27/1994
Spill Record Last Update:	12/6/1994
Spiller Name:	Not reported
Spiller Company:	MOBIL GAS STATION
Spiller Address:	50-25 BAY PARKWAY
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	176358
DEC Memo:	Not reported
Remarks:	HOSE LEAKED INTO SUBMISSIBLE TANK PUMP PIT DOING A TANK TEST-LINE TEST FAILURE-VISIBLE LEAK IN FLEX HOLE. SHUT DOWN LINE. CALLING A CONTRACTOR TO FIX HOSE & RETEST.

Material:

Site ID:	212877
Operable Unit ID:	1002132
Operable Unit:	01
Material ID:	377365
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

MOBIL GAS STATION (Continued) **S101341041**

Tank Test:

Site ID:	212877
Spill Tank Test:	1543142
Tank Number:	Not reported
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

SPILLS:

Facility ID:	9415606
Facility Type:	ER
DER Facility ID:	176358
Site ID:	64637
DEC Region:	2
Spill Date:	3/1/1995
Spill Number/Closed Date:	9415606 / 6/22/2005
Spill Cause:	Equipment Failure
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	Unassigned
Referred To:	Not reported
Reported to Dept:	3/1/1995
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	True
Remediation Phase:	0
Date Entered In Computer:	4/21/1995
Spill Record Last Update:	8/21/2008
Spiller Name:	MIKE MEOLA
Spiller Company:	EXXONMOBIL OIL CO
Spiller Address:	3225 GALLOWS ROAD
Spiller City,St,Zip:	FAIRFAX, VA 22037
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Reassigned from Tomasello to Sigona on 11/6/00.This spill case was reassigned from DEC (Sigona) to Rommel on 02/10/2004.Spill No. 9415606 was called in on 3-1-1995 due to free product in the submersible pump. The caller, ExxonMobil, reported that it was repaired and cleaned up. Groundwater samples were collected on 3-7-1995 and 7-20-1995 from on-site wells. Three groundwater samples were also collected on 6-27-1995. All five groundwater samples were acceptable. Based on this file information, this spill site is closed. John Dumin 6-22-2005.

MOBIL GAS STATION (Continued) **S101341041**

Remarks: FREE PRODUCT FOUND IN SUBMERSIBLE PUMP SYSTEM- CALLER UNSURE OF CAUSE - REPAIRED CLEANED UP BY ON SITE PERSONNEL.

Material:

Site ID:	64637
Operable Unit ID:	1012842
Operable Unit:	01
Material ID:	370788
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

98
SE
1/4-1/2
0.448 mi.
2366 ft.

BROOKLYN CRUSHED MATERIALS; INC.
640 COLUMBIA ST
BROOKLYN, NY 00000

SWF/LF **S105841898**
N/A

Relative:
Lower

Actual:
7 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	Not reported
Owner Name:	Diamond Asphalt Corp.
Owner Type:	Not reported
Owner Address:	91 Paidge Ave
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11222-0175
Owner Email:	Not reported
Owner Phone:	7183834198
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - registration
Activity Number:	[24W145]
Active:	No
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported

Flag:	INACTIVE
Region Code:	2

BROOKLYN CRUSHED MATERIALS; INC. (Continued) **S105841898**

Phone Number:	7189359565
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	MICHAEL COSOLO; PRESIDENT
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - permit
Activity Number:	[24T56]
Active:	No
East Coordinate:	583700
North Coordinate:	4502800
Accuracy Code:	Not reported
Regulatory Status:	Permit
Waste Type:	Not reported
Authorization #:	2-6102-00003
Authorization Date:	09/19/1990
Expiration Date:	09/19/1995

99
ENE
1/4-1/2
0.449 mi.
2369 ft.

WAREHOUSE
80 RICHARDS STREET
BROOKLYN, NY

LTANKS **S106124575**
N/A

Relative:
Higher

Actual:
9 ft.

LTANKS:

Site ID:	270335
Spill Number/Closed Date:	0310837 / 2/13/2004
Spill Date:	12/20/2003
Spill Cause:	Tank Failure
Spill Source:	Non Major Facility > 1,100 gal
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	TJDEMEO
Referred To:	Not reported
Reported to Dept:	12/20/2003
CID:	72
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	12/20/2003
Spill Record Last Update:	2/13/2004
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported

WAREHOUSE (Continued) **S106124575**

Spiller City,St,Zip: ***Update***, ZZ
Spiller County: 001
Spiller Contact: ANTHONY LARA
Spiller Phone: (646) 772-7180
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 220138
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "DEMEO"DeMeo responded to the site. 5,000 gal tank failure.2/13/04 TJDTank failure. All product contained inside tank vault, with concrete floor in good condition. No sumps or drains impacted. PTC performed pump out and pressure wash of tank room. No further action required. Spill closed.
Remarks: Tank rupture of 5,000 gallon tank. Petroleum tank cleaners on the way to investigate.

Material:
Site ID: 270335
Operable Unit ID: 875925
Operable Unit: 01
Material ID: 499681
Material Code: 0003A
Material Name: #6 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Pounds
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

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100 East 1/4-1/2 0.464 mi. 2452 ft.

RED HOOK EAST -NYCHA
37 CENTER MALL
NEW YORK CITY, NY

LTANKS **S104513537**
N/A

Relative: Higher

Actual: 11 ft.

LTANKS:
Site ID: 283388
Spill Number/Closed Date: 9011672 / 2/8/2013
Spill Date: 2/6/1991
Spill Cause: Tank Test Failure
Spill Source: Institutional, Educational, Gov., Other
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 2401
Investigator: jkkann
Referred To: Not reported
Reported to Dept: 2/6/1991
CID: Not reported
Water Affected: Not reported
Spill Notifier: Tank Tester

RED HOOK EAST -NYCHA (Continued) **S104513537**

Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 2/12/1991
Spill Record Last Update: 2/8/2013
Spiller Name: Not reported
Spiller Company: NYCHA
Spiller Address: 250 BROADWAY
Spiller City,St,Zip: NEW YORK, NY
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 229851
DEC Memo: 01/24/06: This spill transferred from J.Kolleeny to S.Kraszewski. One TTF in 1991 for a 16K tank installed in 1939. A Subsurface Investigation was performed in 1995: 4 soil boings and 1 MW were installed. 3 soil samples and 1 GW samples were analyzed. A slight impact to the soil was discovered but no impact to the GW. However, it is doubtful that this area was properly delineated seeing that only one MW was put in. The shallow GW is of concern as well. An additional MW or two with GW samples would probably suffice. - SK03/22/06: This spill transferred to K.Tang - SK09/23/10: J.Kann - spill transferred from K. Tang to J.Kann. 07/18/12 - J.Kann - IWP received on 7/16/12.1/22/13: J.Kann - Discussed this site in an August 2012 meeting with NYCHA and Pardus Environmental (646-577-8280). Closure was proposed by NYCHA's consultant. The file is under review. Initial investigation performed by TRC did not show impacts (with the exception of a TPH reading in one sample - likely the "slight" impact discussed above). Requested any tank closure/removal documentation available from NYCHA on January 16.2/8/13: J.Kann - After file review, it is important to note that this was the only spill called in for this site. No other spills were called in (as is common for NYCHA during a tank excavation). PBS registration from 2002 shows that the tank was removed in 1996. Presented the case to the spill closure panel. Edoced the summary email. Closure Letter prepared and sent. Spill closed.
Remarks: 15K TANK SYSTEM FAILED HORNER EZY CHECK WITH A GROSS LEAK, NO ACTION YET DETERMINED.

Material:
Site ID: 283388
Operable Unit ID: 951647
Operable Unit: 01
Material ID: 428202
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: -1
Units: Not reported
Recovered: No
Resource Affected: Not reported
Oxygenate: False

RED HOOK EAST -NYCHA (Continued) **S104513537**

Tank Test:

Site ID:	283388
Spill Tank Test:	1538228
Tank Number:	001
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

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101 ENE 1/4-1/2 0.465 mi. 2453 ft.

Relative: Higher

Actual: 11 ft.

RED HOOK WEST
420 COLUMBIA STREET
BROOKLYN, NY 11231

LTANKS U002034225
UST N/A
NY Spills

LTANKS:

Site ID:	279620
Spill Number/Closed Date:	9200023 / 12/20/2005
Spill Date:	4/1/1992
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SWKRASZE
Referred To:	Not reported
Reported to Dept:	4/1/1992
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	4/7/1992
Spill Record Last Update:	12/20/2005
Spiller Name:	Not reported
Spiller Company:	NYCHA
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	227063
DEC Memo:	12/20/05: This spill transferred from J.Kolleeny to S.Kraszewski.This spill closed to consolidate with open spill #9502334.
Remarks	NO ACTION YET DETERMINED.

RED HOOK WEST (Continued) **U002034225**

Material:

Site ID:	279620
Operable Unit ID:	967255
Operable Unit:	01
Material ID:	414868
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	279620
Spill Tank Test:	1539811
Tank Number:	001
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

Site ID:	279619
Spill Number/Closed Date:	9011015 / 12/20/2005
Spill Date:	1/16/1991
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SWKRASZE
Referred To:	Not reported
Reported to Dept:	1/16/1991
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1/29/1991
Spill Record Last Update:	12/20/2005
Spiller Name:	Not reported
Spiller Company:	NYCHA
Spiller Address:	250 BROADWAY
Spiller City,St,Zip:	NEW YORK, NY
Spiller County:	001
Spiller Contact:	Not reported

RED HOOK WEST (Continued) U002034225

Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 227063
DEC Memo: 12/20/05: This spill transferred from R.Koating to S.Kraszewski.This spill closed to consolidate with open spill #9502334.
Remarks: 15K TANK FAILED HORNER EZY CHECK,VISUAL GROSS LEAK, LEAK IN FILL LINE,STOPPED LEAK,WILL REPLACE LINE & RETEST WITHIN (2) MONTHS.

Material:
Site ID: 279619
Operable Unit ID: 951209
Operable Unit: 01
Material ID: 431114
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: -1
Units: Pounds
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: 279619
Spill Tank Test: 1538158
Tank Number: 001
Tank Size: 0
Test Method: 00
Leak Rate: 0
Gross Fail: Not reported
Modified By: Spills
Last Modified: 10/1/2004
Test Method: Unknown

UST:
Id/Status: 2-601877 / Active
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: 2014-06-02
UTM X: 584000.89992
UTM Y: 4503404.5116699999
Site Type: Apartment Building/Office Building

Affiliation Records:
Site Id: 23839
Affiliation Type: On-Site Operator
Company Name: RED HOOK WEST
Contact Type: Not reported
Contact Name: FUEL OIL REMEDIATION UNIT
Address1: Not reported
Address2: Not reported
City: Not reported

RED HOOK WEST (Continued) U002034225

State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 707-5725
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 1/30/2014

Site Id: 23839
Affiliation Type: Emergency Contact
Company Name: NEW YORK CITY HOUSING AUTHORITY
Contact Type: Not reported
Contact Name: EMERGENCY SERVICES DEPT.
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (718) 707-5900
EMail: Not reported
Fax Number: Not reported
Modified By: bkfalvey
Date Last Modified: 6/1/2009

Site Id: 23839
Affiliation Type: Mail Contact
Company Name: NYC HOUSING AUTHORITY
Contact Type: Not reported
Contact Name: FUEL OIL REMEDIATION COORDINATOR
Address1: 23-02 49TH AVENUE
Address2: TECH SERVS DEPT - 5TH FLOOR
City: LONG ISLAND CITY
State: NY
Zip Code: 11101
Country Code: 001
Phone: (718) 707-5725
EMail: Y.TKACH@NYCHA.NYC.GOV
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 3/25/2014

Site Id: 23839
Affiliation Type: Facility Owner
Company Name: NEW YORK CITY HOUSING AUTHORITY
Contact Type: FUEL OIL REMEDIATION COORDINATOR
Contact Name: Not reported
Address1: 23-02 49TH AVENUE
Address2: Not reported
City: LONG ISLAND CITY
State: NY
Zip Code: 11101
Country Code: 001
Phone: (718) 707-5725
EMail: Not reported
Fax Number: Not reported

RED HOOK WEST (Continued) U002034225

Modified By: NRLOMBAR
Date Last Modified: 2/11/2014

Tank Info:

Tank Number: 001
Tank ID: 48192
Tank Status: Closed - In Place
Material Name: Closed - In Place
Capacity Gallons: 16000
Install Date: 04/01/1996
Date Tank Closed: 05/01/1996
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
F06 - Pipe External Protection - Wrapped
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)

Tank Number: 1
Tank ID: 51203
Tank Status: In Service
Material Name: In Service
Capacity Gallons: 10000
Install Date: 05/01/1996
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Fiberglass coated steel
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: A
Modified By: NRLOMBAR
Last Modified: 12/30/2008

RED HOOK WEST (Continued) U002034225

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
E00 - Piping Secondary Containment - None
G04 - Tank Secondary Containment - Double-Walled (Underground)
F06 - Pipe External Protection - Wrapped
C02 - Pipe Location - Underground/On-ground
F02 - Pipe External Protection - Original Sacrificial Anode
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I02 - Overfill - High Level Alarm
B04 - Tank External Protection - Fiberglass
K01 - Spill Prevention - Catch Basin

SPILLS:

Facility ID: 0506373
Facility Type: ER
DER Facility ID: 227063
Site ID: 351579
DEC Region: 2
Spill Date: 8/23/2005
Spill Number/Closed Date: 0506373 / 8/25/2005
Spill Cause: Equipment Failure
Spill Class: Known release with minimal potential for fire or hazard, DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 2401
Investigator: JAKOLLEE
Referred To: Not reported
Reported to Dept: 8/24/2005
CID: 77
Water Affected: Not reported
Spill Source: Private Dwelling
Spill Notifier: Local Agency
Cleanup Ceased: Not reported
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered in Computer: 8/24/2005
Spill Record Last Update: 8/25/2005
Spiller Name: Not reported
Spiller Company: NYCHA
Spiller Address: CARLTON MANOR HOUSES
Spiller City,St,Zip: ZZ
Spiller Company: 001
Contact Name: FRANK INOA
Contact Phone: (917) 331-0475
DEC Memo: 8/25/05 - Assigned to Kolleeny, as the NYCHA monitor - end8/25/05 - According to Ralph Trocchio of NYCHA, about 50 gallons total spilled from leaking line; 30 gallons onto concrete floor and 20 gallons directly into buckets from leaking line. No drains or sumps were affected; spill on floor was cleaned with speedy dry, which was then put into plastic bags. The bags will be placed in drums and removed for off-site disposal by NYCHA's contractor, Clean Ventures. OK to

RED HOOK WEST (Continued) U002034225

close. - J. Kolleeny 8/25/05

Remarks: 3/8 tubing to boiler failed, casuing 30 gals to spill onto boiler room concrete floor. clean-up is progress.

Material:

Site ID:	351579
Operable Unit ID:	1109081
Operable Unit:	01
Material ID:	2099066
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	30
Units:	Gallons
Recovered:	30
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	9502334
Facility Type:	ER
DER Facility ID:	227063
Site ID:	279621
DEC Region:	2
Spill Date:	5/24/1995
Spill Number/Closed Date:	9502334 / Not Reported
Spill Cause:	Unknown
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	jkkann
Referred To:	IWP APPRVD 7/18/13, SIR DUE 1/19/14
Reported to Dept:	5/24/1995
CID:	Not reported
Water Affected:	GROUNDWATER
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	1
Date Entered In Computer:	5/24/1995
Spill Record Last Update:	7/18/2013
Spiller Name:	Not reported
Spiller Company:	NYC HOUSING AUTHORITY
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	12/20/05: This spill transferred from J.Kolleeny to S.Kraszewski.03/23/06: This spill transferred to K.Tang - SK09/23/10:

RED HOOK WEST (Continued) U002034225

J.Kann - spill transferred from K. Tang to J.Kann. 05/29/12: J.Kann - priority P0 assigned to the site07/18/12 - J.Kann - IWP received on 7/16/12.

Remarks: DURING EXCAVATION FOR TANK REMOVAL, CONTAMINATED SOIL AND GROUNDWATER FOUND.

Material:

Site ID:	279621
Operable Unit ID:	1013396
Operable Unit:	01
Material ID:	367387
Material Code:	0003A
Material Name:	#6 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

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102 ESE 1/4-1/2 0.492 mi. 2599 ft. **RED HOOK WEST -NYCHA** **85 LORRAINE STREET** **NEW YORK CITY, NY** **LTANKS** **S100146725** **N/A**

Relative: Higher

Actual: 9 ft.

LTANKS:

Site ID:	160220
Spill Number/Closed Date:	9011056 / 7/18/2013
Spill Date:	1/17/1991
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	jkkann
Referred To:	Not reported
Reported to Dept:	1/17/1991
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2/1/1991
Spill Record Last Update:	7/19/2013
Spiller Name:	Not reported
Spiller Company:	NYCHA
Spiller Address:	250 BROADWAY
Spiller City,St,Zip:	NEW YORK, NY
Spiller County:	001

RED HOOK WEST -NYCHA (Continued) **S100146725**

Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 135307
DEC Memo: 01/24/06: This spill transferred from J.Kolleeny to S.Kraszewski. One 16K tank installed in 1955 was replaced in 1996 by a 10K tank. The original tank suffered one TTF before it's replacement. The ISRP from June 1996 gave limited information. Some of the soil and GW samples were not analyzed for STARS compounds and some borings were not analyzed. The results indicate a possible gasoline plume in the area. Benzene and MTBE were detected below soil and GW standards. One MW was not drilled down gradient of the tanks to establish a boundary for the plume. Impacts do not seem severe but this area has not been properly delineated. - SK03/14/06: This spill reassigned to K.Tang. - SK09/23/10: J.Kann - spill transferred from K. Tang to J.Kann. 5/29/12: J.kann - priority P0 assigned to site.07/18/12 - J.Kann - IWP received on 7/16/12.7/18/13: J.kann - While reviewing the site file to confirm information for the review of the IWP, it was determined that an investigation is not necessary and the spill can be closed based on the following:1. Only one spill was called in for this site due to a TTF in 1991.2. In 1995 the UST was removed. Soils observed around the tank (J. Healy's notes) showed no visible petroleum contamination, only the presense of coal ash.3. Photos taken in 1995 confirm J. Healy's written observations. No sheen or evidence of petroleum contamination on the water in the tank pit; layers of coal ash only present on the sidewalls.4. Typically when contamination was encountered at NYCHA tank removal/replacements a second spill would be called in. This was not done because it was not warranted.5. An ISRP was performed in 1996. Three borings and one well were installed. Although only one well was installed, and all analysis not performed at every boring location, the visual observations during the tank removal are valuable. Boring logs and well logs indicate "no impacts evident", with the exception of one note in a log that says slight sheen. However, "no odor" or OVA reading were also noted at that point. This point was not near the fill line, and between the tank and the foundation wall. Given all the information available to evaluate site conditions (especially that no impacted soils were observed during the tank removal), this is likely not related to the TTF. NFA.
Remarks: 15K TANK FAILED HORNER EZY CHECK WITH A VISUAL LEAK,LEAK ON MANWAY, WILL EXCAVATE,REPAIR & RETEST.

Material:
Site ID: 160220
Operable Unit ID: 951264
Operable Unit: 01
Material ID: 431160
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: -1
Units: Not reported
Recovered: No
Resource Affected: Not reported
Oxygenate: False

RED HOOK WEST -NYCHA (Continued) **S100146725**

Tank Test:
Site ID: 160220
Spill Tank Test: 1538166
Tank Number: 001
Tank Size: 0
Test Method: 00
Leak Rate: 0
Gross Fail: Not reported
Modified By: Spills
Last Modified: 10/1/2004
Test Method: Unknown

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103 ESE 1/2-1 0.802 mi. 4236 ft. **CHEMTURA 633 COURT STREET** **SHWS** **S113823311**
633 COURT STREET **N/A**
BROOKLYN, NY 11231

Relative: Higher
Actual: 8 ft.

SHWS:
Program: HW
Site Code: 443256
Classification: Significant threat to the public health or environment - action required.
Region: 2
Acres: .503
HW Code: 224146
Record Add: 12/10/2010
Record Upd: 12/02/2013
Updated By: JEBROWN
Site Description: Location:The site is located at 633 Court Street, Kings County, Brooklyn, New York. The facility is located within the Red Hook Industrial area of Brooklyn. The Site is located to the northeast of the Court Street and Halleck Street intersection. The site is immediately bordered to the south by HaBeck Street and Brooklyn Union Gas, to the north by a carting and storage company and to the east by an office and storage building areas. A recreational park (Red Hook Recreational) is located directly across Court Street to the west of the site. Additionally, an oil terminal (Hess Oil Company) is located approximately one block to the south of the site. Site Features:The entire site is completely developed and covered with two connected buildings and a concrete slab. These buildings were formerly used for plant operations.Current Zoning and Land Use:The site is currently active, and is zoned for industrial use.The surrounding parcels are currently used for a combination of commercial, light industrial, utility right-of-ways and recreational purposes. The nearest residential area is less than 0.5 miles to the north. Past Use of the Site:In 1904 the site was used for the manufacturing of tar paper manufacturing. The site was owned by Barrett Manufacturing Company now know as Allied Signal. Tar tanks, storage tanks, stills, a pitch shed and an oil house were located on-site. In the 1940s Doran Manganese Bronze Company, Inc. Foundry & Machine Shop occupied the site. In the 1940s to 1950s, Argus Chemical Laboratory (Argus) purchased and operated on the site (subsequently purchased by Witco in the early 1960s). Under Argus and Witco ownership, the plant produced metallic-organic soaps and salts, barium stearates, phosphites and epoxy plasticizers. During the 1950s and 1960s,

CHEMTURA 633 COURT STREET (Continued) S113828311

aluminum paste was produced in a process on the roof of one of the buildings. This production ceased in the late 1950s to early 1960s and all plant operations were moved to a parcel of land located to the southwest of the 688 Site. The laboratory and offices remained at the 633 Site until approximately 1990 when these functions were moved to 688 Court Street.The site remedial program is being performed by NYS State Superfund Program.Site Geology and Hydrogeology:The site is reclaimed water front along the East River in a heavily industrialize area. Fillmaterial was observed across the site from 0 to 12 ft bgs. The fill material consisted primarily of fine to coarse sand-sized particles with varying amounts of silt and miscellaneous debris (ash, slag, coal, wood, brick, concrete, etc.). Underlying the fill materials, a silt-clay layer was encountered and in turn underlain continuously by Lake Flushing. A clayey layer, a layer of low permeability, has lateral continuity across the site. This layer (former base of the Gowanus Canal) is gray in color and has a minimum average thickness of approximately 8.0 ft. Due to its' lateral continuity beneath the site, the silt-clay layer acts as a low permeability barrier between the overlying fill and the underlying water-bearing zone located within the glacial deposits beneath the site.Based on the manmade coastline (rip-rap, pile sheeting), well gauging data and the generalized hydrogeological cross-sections; varying depths of the silt-clay layer (former base of the Gowanus Canal) have created a horizontal somewhat radial (north, northwest, west, southwest, south) pathway for groundwater flow. To the south and west of the site, the coastline is lined with sheet piling. To the east of the site (point of groundwater entry), the coastline is lined with riprap. The water table underlying the site occurs within the fill material. Depth to water beneath the site has ranged from 2.0 ft to 9.0-ft below ground surface (bgs) over the course of the investigation. Based on the tidal study, water level measurements (high, low and intermediate tide) the site does not appear to be tidally-influenced. The nature of the groundwater is saline, which is a reflection of the site's proximity to the Gowanus Canal.

Env Problem: Nature and Extent of Contamination:Based on investigations conducted to date, the primary contaminants of concern at the site include toluene, ethylbenzene, xylene, carcenogenic PAHs, phenol, and metals. The VOCs: toluene; ethylbenzene and xylene are found in soil from the surface to the water table. Benzene is found at 13 ppm at the center of the site and at 15 ppm at southern boundary of the site. This contamination is above the groundwater protection number of 0.06 parts per million (ppm) for benzene. Carcenogenic PAHs are found throughout site soil. Benzo(a)pyrene is found in concentrations up to 62 ppm which is above the protection of groundwater value of 22 ppm. Metals are found throughout site soil. Lead was as high as 618 ppm, barium was found up to 590 ppm, cadmium was found up to 340 ppm, arsenic was found as high as 14.6 ppm and mercury was found as high as 2.4 ppm. Toluene, ethylbenze, xylene, naphthalene and benzene are found in groundwater at concentrations up to 240, 300, 530, 3,000 and 48 parts per billion (ppb), respectively which are all above the groundwater standards of 5, 5, 5, 10 and 1 ppb, respectively. SVOCs: pyrene and naphthalene are found in groundwater at concentration up to 200 and 6,400 ppb, respectively, which are above the groundwater guidance values of 50 and 10 ppb, respectively.

Health Problem: Direct contact with contaminants in the soil is unlikely because the majority of the site is covered with buildings and pavement. Contaminated groundwater at the site is not used for drinking or

CHEMTURA 633 COURT STREET (Continued) S113828311

other purposes and the site is served by a public water supply that obtains water from a different source not affected by this contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. The potential for soil vapor intrusion to occur at the on-site building exists.

Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	2/15/2013 4:10:00 PM
Record Upd:	4/22/2013 12:46:00 PM
Updated By:	KPSARNOW
Own Op:	Owner
Sub Type:	01
Owner Name:	Alan Hertz
Owner Company:	Alan B. Hertz, P.C.
Owner Address:	934 East 19th Street
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11230
Owner Country:	United States of America
HW Code:	224146
Waste Type:	PHENANTHRENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224146
Waste Type:	ETHYLBENZENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224146
Waste Type:	PYRENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224146
Waste Type:	LEAD
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224146
Waste Type:	NAPHTHALENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224146
Waste Type:	ANTHRACENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224146
Waste Type:	ACENAPHTHENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported

CHEMTURA 633 COURT STREET (Continued) S113828311

HW Code: 224146
Waste Type: ACENAPHTHENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224146
Waste Type: ARSENIC
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224146
Waste Type: POLYCHLORINATED BIPHENYLS (PCB)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224146
Waste Type: BENZO(B)FLUORANTHENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224146
Waste Type: Chrysene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224146
Waste Type: CADMIUM
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224146
Waste Type: BENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224146
Waste Type: XYLENE (MIXED)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224146
Waste Type: MERCURY
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224146
Waste Type: BENZO(A)PYRENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224146
Waste Type: TOLUENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224146
Waste Type: VINYL CHLORIDE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224146
Waste Type: BARIUM
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224146
Waste Type: ACETONE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224146

CHEMTURA 633 COURT STREET (Continued) S113828311

Waste Type: PHENOL
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: V00249
Cross Ref Type Code: 04
Cross Ref Type: VCP Site ID
Record Added Date: 12/28/2012 3:59:00 PM
Record Updated: 12/28/2012 3:59:00 PM
Updated By: KPSARNOW

104
ESE
1/2-1
0.809 mi.
4272 ft.

CHEM TURA
688-700 COURT ST
BROOKLYN, NY 11231

RCRA NonGen / NLR **1001485652**
SHWS **NY0001411404**
CBS UST
MANIFEST
CBS

Relative:
Lower

Actual:
6 ft.

RCRA NonGen / NLR:
Date form received by agency: 10/15/2012
Facility name: CHEM TURA
Facility address: 688-700 COURT ST
BROOKLYN, NY 11231
EPA ID: NY0001411404
Mailing address: BENSON RD
MIDDLEBURY, CT 06749
Contact: PAUL MEYER
Contact address: BENSON RD
MIDDLEBURY, CT 06749
Contact country: US
Contact telephone: (203) 573-3545
Contact email: PAUL.MEYER@CHEMTURA.COM
EPA Region: 02
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: VIP BUILDERS LLC
Owner/operator address: REALTY LLC 400 BROOME ST
NEW YORK, NY 10013
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 03/23/2004
Owner/Op end date: Not reported

Owner/operator name: VIP BUILDERS LLC
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 03/23/2004
Owner/Op end date: Not reported

CHEM TURA (Continued) 1001485652

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 07/18/2012
Facility name: CHEM TURA
Classification: Large Quantity Generator

Date form received by agency: 01/01/2007
Facility name: CHEM TURA
Site name: WITCO CORP
Classification: Not a generator, verified

Date form received by agency: 01/01/2006
Facility name: CHEM TURA
Site name: WITCO CORP
Classification: Not a generator, verified

Date form received by agency: 01/01/2001
Facility name: CHEM TURA
Site name: CK WITCO CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 11/27/1998
Facility name: CHEM TURA
Site name: WITCO CORP
Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:
Waste code: D004
Waste name: ARSENIC

Waste code: D005
Waste name: BARIUM

Waste code: D006
Waste name: CADMIUM

Waste code: D007
Waste name: CHROMIUM

Waste code: D008

CHEM TURA (Continued) 1001485652

Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: D010
Waste name: SELENIUM

Waste code: D013
Waste name: LINDANE

Waste code: D031
Waste name: HEPTACHLOR (AND ITS EPOXIDE).

Waste code: B007
Waste name: B007

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 04/12/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 04/06/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

SHWS:
Program: HW
Site Code: 442980
Classification: Significant threat to the public health or environment - action required.
Region: 2
Acres: 4.375
HW Code: 224145
Record Add: 12/03/2010
Record Upd: 03/27/2013
Updated By: JAQUINN
Site Description: Location:The site is located at 688-700 Court Street within the Red Hook Industrial area of Brooklyn. The site is located southwest of the Court Street and Halleck Street intersection.Site Features:At one point, the main site features included 19 buildings, five designated tank farms and a wastewater pretreatment system. However, the site has been substantially decommissioned. Current Zoning/Use(s):The site is zoned for industrial use, but is currently mostly unoccupied. Some light manufacturing (stone countertops) takes place on site. The surrounding parcels are currently used for a combination of commercial, light industrial and recreational uses. The site is bordered immediately to the east by Court Street, Brooklyn Union Gas and Spentonbush Red Star Companies, to the west by Clinton Street and American Import Export Trucking and to the south by Bryant Street and Hess Oil Company. A recreational park (Red Hook Recreational) is

CHEM TURA (Continued) **1001485652**

located immediately to the north of the site. Past Use of the Site: Milliken Brothers Iron Works occupied the southwestern portion of the site in 1904. The remaining property was occupied by Barrett plant from 1904 to 1949 for the manufacturing of tar paper. In 1939 John F. McKenna, Inc. Lumber Yard, Marine Canvas Supply Corporation and John Menton Boiler Maker occupied the site. The site remained a lumberyard and marine canvas supply business until approximately 1958, when manufacturing at the site began. Historic manufacturing processes at the site include production of metallic-organic soaps and salts, phosphates and epoxy plasticizers. A hot-oil system, that used PCB containing oil, was part of the manufacturing process. Contamination at the site appears related to several historic operations, including materials handling from the tar paper operation and the various manufacturing processes, as well as releases to the environment from the hot oil system. Site Geology and Hydrogeology:The site was formed by backfilling the marsh and waterfront areas of the Gowanus Canal in the late 1800s through the early 1900s. Fill material consisting of fine to coarse sand-sized particles with varying amounts of silt and miscellaneous debris (ash, slag, coal, wood, brick, concrete, etc.) was observed across the site from ground surface to a depth of 12 ft. Underlying the fill materials, a clay layer was encountered with lateral continuity across the site. This layer (former base of the Gowanus Canal) acts as a low permeability barrier between the overlying fill and the underlying water-bearing zone located within the glacial deposits beneath the site.Based on the manmade coastline (rip-rap, pile sheeting), well gauging data and the generalized hydrogeological cross-sections, a horizontal and somewhat radial (north, northwest, west, southwest, south) pathway for groundwater flow exists. Depth to water beneath the site has ranged from 2.0 ft to 9.0-ft bgs over the course of investigation. Groundwater beneath the site does not appear to be tidally influenced.

Env Problem: Nature and Extent of Contamination:Based on investigations conducted to date, the primary contaminants of concern at the site include petroleum related compounds, phenolic compounds, and PCBs.BTEX is found in soil from the ground surface to the water table throughout a significant portion of the site. Xylenes were detected at concentrations up to 560 ppm (UUSCO of 1.6 ppm); benzene was detected as high as 5.3 ppm (UUSCO of 0.06 ppm.) The highest concentrations of xylenes are located at the east side of building 14 and north of building 19. The SVOCs phenol; 2,4-dichlorophenol and naphthalene are found in soil from the ground surface to the water table throughout the center of the site. SVOCs, carcinogenic PAHs and metals related to historic fill are found throughout the site. Carcinogenic PAHs (up to 100 ppm) and metals (4370 ppm for lead; 1420 ppm for Barium and 305 ppm for cadmium) were detected well above UUSCOs. PCBs are found in soil at concentrations as high as 320 ppm. PCB contamination is located near buildings 13 and 14 in the north and northwestern part of the property where the hot oil system was located and operated.Contaminated soil is a source of groundwater contamination. Benzene is found in groundwater above the groundwater standard of 1 ppb at concentrations as high as 3,400 ppb. SVOCs in soil from the use of tar in the manufacturing of tar paper are of a source of groundwater contamination. For example, naphthalene is found in groundwater as high as 5,500 ppb (groundwater standard 10 ppb.)Non-aqueous phase material, in the form of tar and less viscous oil, is found in the environment.

Health Problem: Direct contact with contaminants in the soil is unlikely because the

CHEM TURA (Continued) **1001485652**

majority of the site is covered with buildings and pavement. However, people could come into contact with contaminants if they dig below the ground surface. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. The potential for soil vapor intrusion to occur in the existing buildings will be investigated.

Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Deli:	Not reported
Record Add:	1/10/2011 9:19:00 AM
Record Upd:	1/10/2011 9:19:00 AM
Updated By:	KPSARNOW
Own Op:	Owner
Sub Type:	01
Owner Name:	Spencer Romoff
Owner Company:	Corigin Real Estate Group
Owner Address:	505 Fifth Ave.
Owner Addr2:	Not reported
Owner City,St,Zip:	New York, NY 10017
Owner Country:	United States of America
Own Op:	Owner
Sub Type:	E
Owner Name:	David Podolsky
Owner Company:	VIP Second, LLC
Owner Address:	757 Clinton St
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11231
Owner Country:	United States of America
Own Op:	Owner
Sub Type:	E
Owner Name:	Simmy "Mark" Moskowitz
Owner Company:	Pearl Realty Management
Owner Address:	155 Water St
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11201
Owner Country:	United States of America
HW Code:	224145
Waste Type:	BENZENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224145
Waste Type:	TOLUENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224145
Waste Type:	ACETONE

CHEM TURA (Continued) 1001485652

Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224145
Waste Type:	NAPHTHALENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224145
Waste Type:	PHENOL
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224145
Waste Type:	POLYCHLORINATED BIPHENYLS (PCB)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224145
Waste Type:	XYLENE (MIXED)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	V00249
Cross Ref Type Code:	04
Cross Ref Type:	VCP Site ID
Record Added Date:	12/28/2012 3:58:00 PM
Record Updated:	12/28/2012 3:58:00 PM
Updated By:	KPSARNOW
Crossref ID:	nyd003907367
Cross Ref Type Code:	06
Cross Ref Type:	RCRA EPA ID No.
Record Added Date:	4/1/2011 5:50:00 PM
Record Updated:	4/1/2011 5:53:00 PM
Updated By:	DADESNOY
Crossref ID:	witco chemical corp, crompton corp
Cross Ref Type Code:	27
Cross Ref Type:	Alternate Site Name
Record Added Date:	4/1/2011 5:51:00 PM
Record Updated:	4/1/2011 5:51:00 PM
Updated By:	DADESNOY

CBS UST:

Detail As of 1/1/2012:

Id/Status:	2-000096 / NO LONGER A MAJOR FACILITY
Facility Type:	MANUFACTURING
Facility Tel:	(718) 858-8694
Total Tanks:	0
Region:	STATE
ICS No:	2-500035
PBS No:	Not reported
MOSF No:	Not reported
SPDES No:	Not reported
Town:	NEW YORK CITY
Operator:	WITCO CORPORATION (POLYMER ADD
Emergency Contact:	MARIE PITTIGNANO
Emergency Contact Phone:	(203) 552-2477
Certification Date:	05/12/1999
Expiration Date:	07/07/2001
Owner Name:	CK WITCO
Owner Address:	ONE AMERICAN WAY

CHEM TURA (Continued) 1001485652

Owner City,St,Zip:	BROOKLYN, NY 11231
Owner Phone:	(203) 552-2477
Owner Type:	5
Owner Subtype:	Not reported
Mail To Name:	CK WITCO
Mail To Contact:	MARIE PITTIGNANO
Mail To Address:	ONE AMERICAN WAY
Mail To Address 2:	Not reported
Mail To City,St,Zip:	BROOKLYN, NY 11231
Mail To Telephone:	(203) 552-2477
Tank Number:	F203
Date Entered:	04/26/1995
Capacity:	4000
Chemical:	Benzene,1-methylethyl-
Tank Closed:	12/99
Tank Status:	2
Tank Type:	Steel/carbon steel
Install Date:	06/93
CAS No:	98828
Substance:	Single Hazardous Substance on DEC List
Tank Location:	Outdoors, Belowground
Tank Internal:	1
Tank External:	SACRIFICIAL ANODE
Pipe Location:	Aboveground/Underground Combination
Pipe Internal:	None
Pipe External:	None
Leak Detection:	Interstitial Monitoring
Secondary Containment:	Cut-off Walls
Overfill Protection:	High Level Alarm
Haz Percent:	100
Pipe Containment:	None
Pipe Type:	STEEL/IRON
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	14:34:01
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	40|40|10 / 74|00|13
Renew Date:	04/01/93
Deliquent:	False
Total Capacity:	0
Date Expired:	07/07/95
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	True
Tank Number:	T5016
Date Entered:	07/07/1989
Capacity:	4000

CHEM TURA (Continued) 1001485652

Chemical:	m-Xylene
Tank Closed:	Not reported
Tank Status:	2
Tank Type:	Steel/carbon steel
Install Date:	08/70
CAS No:	108383
Substance:	Not reported
Tank Location:	5
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Leak Detection:	Not reported
Secondary Containmentl:	Vault
Overfill Protection:	Not reported
Haz Percent:	0
Pipe Containment:	Not reported
Pipe Type:	STEEL/IRON
Tank Error Status:	Minor Data Missing
Tank Secret:	False
Date Entered:	12:04:21
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	40|40|10 / 74|00|13
Renew Date:	04/01/93
Deliquent:	False
Total Capacity:	0
Date Expired:	07/07/95
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	True

NY MANIFEST:

EPA ID:	NY0001411404
Country:	USA

Mailing Info:

Name:	CROMPTON CORPORATION
Contact:	MARTIN DONAHUE
Address:	199 BENSON ROAD
City/State/Zip:	WATERBURY, CT 06749
Country:	USA
Phone:	435-655-8110

Document ID:	NJA2782884
Manifest Status:	Not reported
Trans1 State ID:	NYD980769947
Trans2 State ID:	Not reported
Generator Ship Date:	12/11/1998

CHEM TURA (Continued) 1001485652

Trans1 Recv Date:	12/11/1998
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/11/1998
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0001411404
Trans1 EPA ID:	NJD002454544
Trans2 EPA ID:	Not reported
TSDF ID:	00602
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	05123
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	01.00
Year:	98

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD039322250
Trans2 State ID:	MAD039322250
Generator Ship Date:	2012-07-12
Trans1 Recv Date:	2012-07-16
Trans2 Recv Date:	2012-07-16
TSD Site Recv Date:	2012-08-02
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0001411404
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD000816629
Waste Code:	Not reported
Quantity:	2750.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	11.0
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	004816920FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	NJA2783121
Manifest Status:	Not reported

CHEM TURA (Continued) **1001485652**

Trans1 State ID: NYD980769947
Trans2 State ID: Not reported
Generator Ship Date: 05/04/1999
Trans1 Recv Date: 05/04/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 05/04/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NY0001411404
Trans1 EPA ID: NJD002454544
Trans2 EPA ID: Not reported
TSDF ID: 0602
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 05003
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 99

Document ID: NJA2783122
Manifest Status: Not reported
Trans1 State ID: NJD080631369
Trans2 State ID: Not reported
Generator Ship Date: 05/27/1999
Trans1 Recv Date: 05/27/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 05/28/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NY0001411404
Trans1 EPA ID: NJD980536593
Trans2 EPA ID: Not reported
TSDF ID: NJDEP5016
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00313
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D009 - MERCURY 0.2 MG/L TCLP
Quantity: 00005
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 01.00
Year: 99

Document ID: NJA2827742
Manifest Status: Not reported
Trans1 State ID: NJD080631369
Trans2 State ID: Not reported

CHEM TURA (Continued) **1001485652**

Generator Ship Date: 12/28/1999
Trans1 Recv Date: 12/28/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 12/28/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NY0001411404
Trans1 EPA ID: NJD980536593
Trans2 EPA ID: Not reported
TSDF ID: NJDEP5016
Waste Code: D005 - BARIUM 100.0 MG/L TCLP
Quantity: 00400
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D002 - NON-LISTED CORROSIVE WASTES
Quantity: 01800
Units: P - Pounds
Number of Containers: 004
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D005 - BARIUM 100.0 MG/L TCLP
Quantity: 00800
Units: P - Pounds
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Waste Code: D005 - BARIUM 100.0 MG/L TCLP
Quantity: 04800
Units: P - Pounds
Number of Containers: 012
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 99

Document ID: NJA2827742
Manifest Status: Not reported
Trans1 State ID: NJD080631369
Trans2 State ID: Not reported
Generator Ship Date: 12/28/1999
Trans1 Recv Date: 12/28/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 12/28/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NY0001411404
Trans1 EPA ID: NJD980536593
Trans2 EPA ID: Not reported
TSDF ID: NJDEP5016
Waste Code: D005 - BARIUM 100.0 MG/L TCLP
Quantity: 00400

CHEM TURA (Continued) 1001485652

Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D005 - BARIUM 100.0 MG/L TCLP
Quantity:	00450
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	NJA1483383
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Trans2 State ID:	Not reported
Generator Ship Date:	11/05/1999
Trans1 Recv Date:	11/05/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/05/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0001411404
Trans1 EPA ID:	NJD980536593
Trans2 EPA ID:	Not reported
TSDF ID:	083437
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	01350
Units:	P - Pounds
Number of Containers:	002
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	01750
Units:	P - Pounds
Number of Containers:	001
Container Type:	TP - Tanks, portable
Handling Method:	B Incineration, heat recovery, burning
Specific Gravity:	01.00
Year:	99

Document ID:	NJA1483384
Manifest Status:	Not reported
Trans1 State ID:	NJD002454544
Trans2 State ID:	Not reported
Generator Ship Date:	11/05/1999
Trans1 Recv Date:	11/05/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/05/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0001411404

CHEM TURA (Continued) 1001485652

Trans1 EPA ID:	NJD002454544
Trans2 EPA ID:	Not reported
TSDF ID:	2809
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	06211
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	01.00
Year:	99

Document ID:	NJA2575717
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Trans2 State ID:	Not reported
Generator Ship Date:	10/12/1999
Trans1 Recv Date:	10/12/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/12/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0001411404
Trans1 EPA ID:	NJD980536593
Trans2 EPA ID:	Not reported
TSDF ID:	NJDEP5016
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00005
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00110
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00008
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	NJA2673302
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Trans2 State ID:	Not reported
Generator Ship Date:	12/17/1999
Trans1 Recv Date:	12/17/1999

CHEM TURA (Continued) 1001485652

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/17/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0001411404
Trans1 EPA ID:	NJD980536593
Trans2 EPA ID:	Not reported
TSDF ID:	NJDEP5016
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00125
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D005 - BARIUM 100.0 MG/L TCLP
Quantity:	01200
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D003 - NON-LISTED REACTIVE WASTES
Quantity:	00180
Units:	P - Pounds
Number of Containers:	006
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	NJA2673307
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Trans2 State ID:	Not reported
Generator Ship Date:	12/22/1999
Trans1 Recv Date:	12/22/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/22/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0001411404
Trans1 EPA ID:	NJD980536593
Trans2 EPA ID:	Not reported
TSDF ID:	NJDEP5016
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	02400
Units:	P - Pounds
Number of Containers:	006
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	01600
Units:	P - Pounds
Number of Containers:	004

CHEM TURA (Continued) 1001485652

Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Waste Code:	U147 - MALEIC ANHYDRIDE
Quantity:	00100
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	NJA2673308
Manifest Status:	Not reported
Trans1 State ID:	NJD000692061
Trans2 State ID:	Not reported
Generator Ship Date:	12/22/1999
Trans1 Recv Date:	12/22/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/22/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0001411404
Trans1 EPA ID:	NJD002385730
Trans2 EPA ID:	Not reported
TSDF ID:	S71070858
Waste Code:	D005 - BARIUM 100.0 MG/L TCLP
Quantity:	40840
Units:	P - Pounds
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	99

Document ID:	NJA2783066
Manifest Status:	Not reported
Trans1 State ID:	NJD000692061
Trans2 State ID:	Not reported
Generator Ship Date:	12/08/1999
Trans1 Recv Date:	12/08/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/08/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0001411404
Trans1 EPA ID:	NJD002385730
Trans2 EPA ID:	Not reported
TSDF ID:	S7107
Waste Code:	D005 - BARIUM 100.0 MG/L TCLP
Quantity:	05000
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.

CHEM TURA (Continued) 1001485652

Specific Gravity: 01.00
Year: 99

Document ID: NJA2783067
Manifest Status: Not reported
Trans1 State ID: NJD000692061
Trans2 State ID: Not reported
Generator Ship Date: 12/08/1999
Trans1 Recv Date: 12/08/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 12/08/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NY0001411404
Trans1 EPA ID: NJD002385730
Trans2 EPA ID: Not reported
TSDF ID: XS7107
Waste Code: D005 - BARIUM 100.0 MG/L TCLP
Quantity: 05000
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Year: 99

Document ID: NJA2783071
Manifest Status: Not reported
Trans1 State ID: NYD980769947
Trans2 State ID: Not reported
Generator Ship Date: 01/25/1999
Trans1 Recv Date: 01/25/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 01/25/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NY0001411404
Trans1 EPA ID: NJD002454544
Trans2 EPA ID: Not reported
TSDF ID: 00602
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 41520
Units: P - Pounds
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 99

Document ID: NJA2783073
Manifest Status: Not reported
Trans1 State ID: NYD980769947
Trans2 State ID: Not reported
Generator Ship Date: 01/08/1999

CHEM TURA (Continued) 1001485652

Trans1 Recv Date: 01/08/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 01/08/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NY0001411404
Trans1 EPA ID: NJD002454544
Trans2 EPA ID Not reported
TSDF ID: 0602
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 40180
Units: P - Pounds
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 99

Document ID: NJA2783076
Manifest Status: Not reported
Trans1 State ID: NJD080631369
Trans2 State ID: Not reported
Generator Ship Date: 02/02/1999
Trans1 Recv Date: 02/02/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 02/10/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NY0001411404
Trans1 EPA ID: NJD980536593
Trans2 EPA ID: Not reported
TSDF ID: NJDEP5016
Waste Code: D009 - MERCURY 0.2 MG/L TCLP
Quantity: 00005
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 01.00
Year: 99

Document ID: NJA2673289
Manifest Status: Not reported
Trans1 State ID: NJD000692061
Trans2 State ID: Not reported
Generator Ship Date: 10/19/1999
Trans1 Recv Date: 10/19/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 10/19/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NY0001411404
Trans1 EPA ID: NJD980536593
Trans2 EPA ID: Not reported
TSDF ID: S7107

CHEM TURA (Continued) 1001485652

Waste Code:	U002 - ACETONE
Quantity:	00125
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	U404 - TRIETHYLAMINE
Quantity:	00800
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00450
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	03600
Units:	P - Pounds
Number of Containers:	009
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	NJA2673289
Manifest Status:	Not reported
Trans1 State ID:	NJD000692061
Trans2 State ID:	Not reported
Generator Ship Date:	10/19/1999
Trans1 Recv Date:	10/19/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/19/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0001411404
Trans1 EPA ID:	NJD980536593
Trans2 EPA ID:	Not reported
TSDF ID:	S7107
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00800
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	NJA2783093
Manifest Status:	Not reported

CHEM TURA (Continued) 1001485652

Trans1 State ID:	NYD980769947
Trans2 State ID:	Not reported
Generator Ship Date:	02/11/1999
Trans1 Recv Date:	02/11/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	02/11/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0001411404
Trans1 EPA ID:	NJD002454544
Trans2 EPA ID:	Not reported
TSDF ID:	00602
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	40460
Units:	P - Pounds
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	01.00
Year:	99

Click this hyperlink while viewing on your computer to access
110 additional NY_MANIFEST: record(s) in the EDR Site Report.

CBS:

CBS Number:	2-000096
Program Type:	CBS
Facility Status:	Unregulated
Expiration Date:	07/07/2001
Dec Region:	2
UTMX:	584344.69793000
UTMY:	4502565.3476999

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105 ESE 1/2-1 0.870 mi. 4592 ft. — **RED HOOK SMITH STREET**, **627 SMITH ST.**, **BROOKLYN, NY 11231** — **SHWS BROWNFIELDS** — **S112818546** N/A

Relative: Lower
Actual: 2 ft.

SHWS:

Program:	HW
Site Code:	466165
Classification:	N
Region:	2
Acres:	1.040
HW Code:	224163
Record Add:	07/06/2012
Record Upd:	05/24/2013
Updated By:	BXANDERS
Site Description:	See site C224163 Location: The 45,400 square foot site is located at 627-641 Smith Street in the Borough of Brooklyn, Kings County, NY in an urban area.Site Features: The Site currently consists of a vacant 1-story warehouse and an asphalt-paved parking lot. The site warehouse is connected to the warehouse on the lot to the south.Current Zoning/Use(s):The site is currently zoned as M3-1 (manufacturing).Historical Use(s):The Site was occupied by Barrett Manufacturing Company, Storage and Shipping in the early 1900s.

RED HOOK SMITH STREET (Continued) S112818546

Later, Colonial Sand and Stone Company occupied the site in the 1950s. Black Diamond Cargo Line and Pittston Stevedoring Storage occupied the Site from the early 1960?s to the 1990s. The original occupant, Barrett Manufacturing, utilized nine coal tar storage tanks and two gasoline underground storage tanks (USTs) as part of their production of coal tar and roofing material. Additionally, Barrett Manufacturing operations occupied the entire city block west of the site (Block 492). Block 492 currently consists of three Lots: Lot 1, Lot 15, Lot 20. Block 492, Lot 1 is a State Superfund Site: Chemtura 633 Court Street ID No. 224146. Site Geology and Hydrogeology:Soil borings conducted between 2005 and 2012 indicate there are alternating layers of sand and dense clay. Two to four separate aquifers are present at the site, separated by clay confining layers. Groundwater is present at a depth of 2 ? 4 feet below grade.

Env Problem: See site C224163 Nature and Extent of Contamination: Soil ? Coal tar related VOCs and SVOCs are present above Unrestricted Use SCOs. These include naphthalene (7,700 mg/kg), benzo(a)anthracene (280 mg/kg), benzo(a)pyrene (250 mg/kg), and benzo(b)fluoranthene (190 mg/kg). Contaminated soil is present on-site in the vicinity of the former tar storage tanks, and extends to the eastern property boundary, which is bordered by the Gowanus Canal. Additionally, the area of contaminated soil extends off-site to the south, and upgradient to the west. High soil VOCs and SVOCs upgradient and adjacent to Block 492 indicate that Block 492 may be a source of coal tar related VOCs and SVOCs. Groundwater ? VOCs and SVOCs are present above Class GA Standard in twenty monitoring wells. The groundwater plume has not been delineated to the south or to the west.VOC and SVOC contamination extends to the eastern property boundary, which is bordered by the Gowanus Canal. Napthalene is present at a concentration of up to 17,000 ug/l. Benzene is present at a maximum concentration of 11,000 ug/l. Toluene is present at a concentration of up to 7,300 ug/l. Soil Vapor ? Soil vapor samples have not been collected.Significant Threat:No evaluation has been made thus far to determine if the contaminants represent an environmental significant threat.

Health Problem: Not reported
Dump: Not reported
Structure: Not reported
Lagoon: Not reported
Landfill: Not reported
Pond: Not reported
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: Not reported
Record Upd: Not reported
Updated By: Not reported
Own Op: Owner
Sub Type: E
Owner Name: c/o Crown Acquisitions, Inc.
Owner Company: Red Hook Developers Holdings, LLC
Owner Address: 362 Fifth Avenue
Owner Addr2: Suite 1201
Owner City,St,Zip: New York, NY 10001
Owner Country: United States of America
Own Op: Owner

RED HOOK SMITH STREET (Continued) S112818546

Sub Type: E
Owner Name: Not reported
Owner Company: CF Smith, LLC
Owner Address: 404 Fifth Avenue
Owner Addr2: 5th Floor
Owner City,St,Zip: New York, NY 10018
Owner Country: United States of America
HW Code: Not reported
Waste Type: Not reported
Waste Quantity: Not reported
Waste Code: Not reported
Crossref ID: Not reported
Cross Ref Type Code: Not reported
Cross Ref Type: Not reported
Record Added Date: Not reported
Record Updated: Not reported
Updated By: Not reported

BROWNFIELDS:
Program: BCP
Site Code: 476652
Site Description: Location: The Red Hook Smith Street site is located in Brooklyn, an urban area. The site is bounded by Smith Street to the west, the Gowanus Canal to the east and south, and an industrial property to the north. Site Features: The site encompasses anapproximate area of 85,400 square feet. Block 493 (the northern part of the site) is occupied by a vacant one-story warehouse and an asphalt-paved parking lot. The warehouse is connected to the warehouse on the lot to the south (Block 495, Lot 1). Block 495 is occupied by an approximate 40,000-square-foot vacant one-storywarehouse.Current Zoning/Use(s): The site is zoned industrial but is currently vacant.Historical Use(s): Barrett Manufacturing occupied Block 493 from circa 1900 to 1940 and utilized nine coal tar storage tanks and two gasoline underground storage tanks (UST) as part of their production of coal tar and roofing material. Their manufacturing facility also extended to the west of the site (hydraulically up-gradient). Various manufacturing and storage companies occupied Block 495 (the southern part of the site). American Ice Company occupied Block 495 in the early 1900s and Smith Street Dock Corporation and Seaboard Storage occupied lock 495 from around 1930 to 1950. Black Diamond Cargo Line and Pittston Stevedoring Cargo Storage occupied Block 495 from the late 1960s to the 1990s.Site Geology and Hydrogeology: The topography is relatively flat, gently sloping to the east-southeast towards the Gowanus Canal. The site is underlain by a layer of historic urban fill that extends to approximately 12 feet below grade surface (bgs). The historic fill generally consisted of sand, silt, clay, gravel,cobbles, wood and brick fragments, cinder, and ash. The historic fill is underlain by finesands and silts from 2 to 55 feet bgs and stiff clays (potential confining layers) withsome organic materials in lenses at varying depths (8 to 35 feet bgs). Bedrock underlying the site is part of the Hartland Formation comprised of gray, fine to medium-grained biotite-muscovitequartz schist with minor garnet and gray sillimanite-plagioclase-muscovite schist with minor garnet with localized concentrations of granite and intrusions of coarsegrained granitic pegmatite.

Env Problem: Information submitted with the BCP application regarding the environmental condition at the site are currently under review and

RED HOOK SMITH STREET (Continued) — S112818546

Health Problem: will be revised as additional information becomes available Information submitted with the BCP application regarding the conditions at the site are currently under review and will be revised as additional information becomes available.

S106 NNW 1/2-1 0.957 mi. 5053 ft. — **CASTLE WILLIAMS, GOVERNORS ISLAND**, **GOVERNOR'S ISLAND**, **NEW YORK, NY 10004** — SHWS — S113916589, N/A

Site 1 of 2 in cluster S

Relative: Lower

Actual: 5 ft.

SHWS:

Program:	HW
Site Code:	338770
Classification:	N
Region:	2
Acres:	Not reported
HW Code:	231003
Record Add:	11/18/1999
Record Upd:	12/16/2003
Updated By:	kstang
Site Description:	The site did not qualify for addition to the Registry of Inactive Hazardous Waste Sites.
Env Problem:	Not reported
Health Problem:	Not reported
Dump:	Not reported
Structure:	Not reported
Lagoon:	Not reported
Landfill:	Not reported
Pond:	Not reported
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	Not reported
Record Upd:	Not reported
Updated By:	Not reported
Own Op:	Not reported
Sub Type:	Not reported
Owner Name:	Not reported
Owner Company:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Country:	Not reported
HW Code:	Not reported
Waste Type:	Not reported
Waste Quantity:	Not reported
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported

S107 NNW 1/2-1 0.957 mi. 5053 ft. — **FORT JAY DOD GRANT**, **GOVERNORS ISLAND**, **NEW YORK, NY 10004** — SHWS — S111072385, N/A

Site 2 of 2 in cluster S

Relative: Lower

Actual: 5 ft.

SHWS:

Program:	HW
Site Code:	437464
Classification:	A
Region:	2
Acres:	173.000
HW Code:	231069
Record Add:	07/15/2010
Record Upd:	06/10/2013
Updated By:	JBSWARTO
Site Description:	Fort Jay is located on Governors Island between Brooklyn Borough and Manhattan Borough in New York County, New York City, New York. This site is surrounded by an urban setting. The highest point is on the north side of the island at the machine gun range. Parade grounds are located on the northern end of Fort Jay. There is an open lawn area in the center of the island. Many deciduous tress border the edges of the island. The National Park Service currently manages 22 acres of the 173 acres of the island as a National Monument. The Governors Island Preservation and Education Corporation (GIPEC) plans to develop the parkland and waterfront esplanade on the remaining acres. Deed restrictions were created to prohibit permanent housing and casinos on the island. Until the 1960s, this site was used for military purposes which included fort construction, army recruitment and army prison, and supply base for Army ground and air forces. From 1966 to 1996 Governor's Island was used as a Coast Guard facility.A site assessment was completed by the US Army Corps of Engineers in January 2008 under the Military Munitions Response Program. Based on the results, concentrations of various metals were found below the background levels. However, an RI/FS was recommended for munitions and explosives of concern (MEC) for Area of Concern 1 (AOC 1) based on past discoveries of MEC and munitions debris at multiple locations on the island outside of known range areas after it was turned over to the Coast Guard. AOC 1 encompasses about 170 acres (all of the island except for the rifle ranges, machine gun range, and skeet range) and includes the fortifications of Fort Jay/Columbus, Castle Williams, South Battery, Barbette Battery, and Anti-Aircraft Firing Measures. The Army Corps of Engineers will prioritize munitions sites for further investigation once all sites nationally have completed Site Inspections.
Env Problem:	Based on the results of the site characterization, a "No Department of Defense Action Indicated" (NDAI) was designated for the known range areas on the island. However, an RI/FS is recommended for Area of Concern 1 due to munitions concerns.
Health Problem:	Not reported
Dump:	Not reported
Structure:	Not reported
Lagoon:	Not reported
Landfill:	Not reported
Pond:	Not reported
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported

FORT JAY DOD GRANT (Continued) S111072385

Record Add:	Not reported
Record Upd:	Not reported
Updated By:	Not reported
Own Op:	On-Site Operator
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	Governors Island preservation & Education Corporation
Owner Address:	10 South Street
Owner Addr2:	Building Maritime Building, Slip 7
Owner City,St,Zip:	New York, NY 10004
Owner Country:	United States of America
Own Op:	Owner
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	Governors Island Preservation & Education Corporation
Owner Address:	10 South Street
Owner Addr2:	Battery Maritime Building, Slip 7
Owner City,St,Zip:	New York, NY 10004
Owner Country:	United States of America
HW Code:	Not reported
Waste Type:	Not reported
Waste Quantity:	Not reported
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported

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108 East 1/2-1 0.997 mi. 5262 ft. — **CARROLL GARDENS**, **CORNER OF 5TH STREET & SMITH STREET**, **BROOKLYN, NY** — DEL SHWS — S105972444, N/A

Relative: Higher — **Actual: 37 ft.**

DEL SHWS:

Year:	Not reported
Site Code Id:	224012
Site Classification:	D1
Region:	2
Epa Id Number:	Not reported
Site Type - Dump:	No
Site Type - Structure:	No
Site Type - Lagoon:	No
Site Type - Landfill:	No
Site Type - Treat Pond:	No
Site Size (Acres):	6 Acres
Site Size Comment:	Not reported
Period Assoc/HW Start:	Not reported
Period Assoc/HW End:	Not reported
Lat/Long:	40 40' 33 / 73 59' 46
Lat/Long Decimal:	0.00000 / 0.00000
Lat/Long (dms):	0 0 0 / 0 0 0
Hazardous Waste Code:	Not reported
Hazard Waste Disposed:	Not reported
Quantity:	Not reported
Air Data Available:	No

CARROLL GARDENS (Continued) S105972444

SW Std Contravention:	No
GW Std Contravention:	No
Soil Type:	Not reported
Sediment Data Available:	No
GW Std Contravention:	No
DW Std Contravention:	No
SW Std Contravention:	No
Air Stand Contraventions:	No
Legal Action Type:	Not reported
State Legal Action:	No
Federal Legal Action:	No
Enforce Status Code:	Not reported
Remedial Act Proposed:	No
Rem Act Under Design:	No
Rem Act In Progress:	No
Rem Act Completed:	No
Remedial Action Type:	Not reported
Soil Type:	Not reported
Depth To Groundwater:	Not reported
Owner Name:	NYC Department of Real Property
Owner Address:	2 Lafayette Street
Owner City,St,Zip:	New York, NY 10007
Owner Phone:	Not reported
Owner Contact Name:	Not reported
Owner During Disposal:	Not reported
Owner During Use:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City,St,Zip:	Not reported
Operator Phone:	Not reported
Operator Contact Name:	Not reported
Oper During Disposal:	Not reported
Site Type:	Dump
HW Disposal Period:	From: unknown To:
Analytical Data Available:	Groundwater, Surface Water, Soil
Applicable Std Exceeded:	Groundwater, Surface Water
Geotech Info:	Sand and till.
Depth To Groundwater:	Range: 10 to 20 feet.
Status:	Not reported
Nature Of Action:	Not reported
Env Prob Assessment:	Not reported
Site Description:	This site was formerly owned by the Brooklyn Union Gas Company, which operated a coal gasification plant. It is believed that products from previous operations may have been disposed at this site. The site is currently vacant and located in a mixed industrial/residential area. Single family homes and a concrete product manufacturing plant are adjacent to the site. At one time, residential housing was proposed for construction at this location. The lot is littered with debris piles, cinder blocks, old lumber and at least fourteen 55-gallon drums embedded in concrete. The NYSDEC has received the final Phase II site investigation report, but is awaiting the analytical results of the sampling of the 55 gallon drums disposed on site. These drums were sampled separately in December 1990. Analytical data for the 3 drums sampled in 1990 revealed that the waste present in the drums originated from a petroleum hydrocarbon source and is not classified as hazardous waste.
Confirmed HW:	Methylene Chloride: unknown
Environment Assesment:	Environmental problems not established.
Health Assesment:	Not reported

Map ID Direction Distance Elevation	Site		Database(s)	EDR ID Number EPA ID Number
	MAP FINDINGS			
	CARROLL GARDENS (Continued)			**S105972444**
	Disposal Start Date:	Not reported		
	Disposal Term Date:	Not reported		
	Air Violation:	Not reported		
	Groundwater Violation:	Not reported		
	Drink Water Violation:	Not reported		
	Surface Water Violation:	Not reported		
	Legal New York State:	Not reported		
	Legal Federal:	Not reported		
	Legal State:	Not reported		
	Remedial Action Active:	Not reported		
	Remedial Action Done:	Not reported		
	NPL Status:	Not reported		
	Count Operator:	Not reported		
	Count Owner:	Not reported		
	NYTM X:	0		
	NYTM Y:	0		
	Co Name:	Not reported		
	Co Adjr:	Not reported		
	Operator Addr:	Not reported		
	Operator Addr 2:	Not reported		
	Operator Addr 3:	Not reported		
	Operator Addr 4:	Not reported		
	HWDP From:	Not reported		
	From To:	Not reported		
	Assessment of Health:	Not reported		
	Description:	Not reported		
	Env Assessment:	Not reported		
	HW Disposed/Quantity:	Not reported		
	Assess/Env Prog:	Not reported		
	Assess/Health Prob:	Not reported		
	Site Description:	Not reported		

Count: 20 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BROOKLYN	S110049531	NYS DOT BIN 1065390	ROUTE 27 E TELLARY ST RAMP	11201	MANIFEST
BROOKLYN	1010787644	NYSDOT BIN 2067689	RTE 27 OVER 4TH AVE	11215	RCRA-LQG
BROOKLYN	1010787641	NYSDOT BIN 1076750	RTE 27 OVER 17TH ST	11232	RCRA-LQG
BROOKLYN	S107787053	EXIT 34	ROUTE 278 SOUTHBOUND		NY Spills
BROOKLYN	S108906421	BELL ATLANTIC-NY	E 94 ST/BET CLARKSON AVE KINGS		MANIFEST
BROOKLYN	1004571797	COFFEY STREET	32-15 COLLEGE POINT BLVD		ICIS, FINDS
BROOKLYN	S116293576	CON EDISON	CONEY ISLAND & KINGS HWY	11201	MANIFEST
BROOKLYN	S116293566	CON EDISON	KINGS HWY CONEY ISLAND	11201	MANIFEST
BROOKLYN	S107407680	KINGS HIGHWAY MOBIL	KINGS HIGHWAY		NY Spills
BROOKLYN	S106737045	BET/W/AVE X &	KINGS HIGHWAY AVE U		NY Spills
BROOKLYN	1009235114	BP PRODUCTS OF NORTH AMERICA INC	5061 KINGS HIGHWAY SS671	11201	MANIFEST
BROOKLYN	1009238175	CONSOLIDATED EDISON	MH3944S-E 25TH ST & KINGS HWY	11201	MANIFEST
BROOKLYN	S113816641	CON EDISON	NWC KINGS HWY & E 35 ST	11201	MANIFEST
BROOKLYN	1014473075	NYSDOT BIN 1076849	RAMP FROM GOWANUS EXPWY TO RTE	11215	RCRA-LQG
BROOKLYN	1007268397	CON EDISION - MH38210	S/WT KINGS HWY & W 7 ST S/IN	10503	RCRA NonGen / N.L.R. MANIFEST
	S109207895	205842: KINGS HVY	KINGS HWY		NY Spills
NEW YORK	1006817482	NYCTA - 2ND AVE 128TH TO 116TH STR	2ND AVE FROM 128TH-116TH ST.	10035	RCRA-CESQG, MANIFEST
NEW YORK	1001961619	MTA NYCT - 30TH STREET YARD	30TH ST & BETW 11TH & 12TH AVE	10001	RCRA NonGen / N.L.R. MANIFEST
NEW YORK	1009218230	NYSDOT BIN 2267480 D259670 P-X7598	RTE 9A S PROMENADE WEST ST	10004	RCRA NonGen / N.L.R
NEW YORK	1009218229	NYSDOT BIN 2232000 D259670 P-X7598	RTE 9A S PROMENADE BATTERY	10004	RCRA-SQG, MANIFEST, MANIFEST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List
National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: N/A
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 07/08/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/20/2014
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1 Telephone 617-918-1143	EPA Region 6 Telephone: 214-655-6659
EPA Region 3 Telephone 215-814-5418	EPA Region 7 Telephone: 913-551-7247
EPA Region 4 Telephone 404-562-8033	EPA Region 8 Telephone: 303-312-6774
EPA Region 5 Telephone 312-886-6686	EPA Region 9 Telephone: 415-947-4246
EPA Region 10 Telephone 206-553-8665	

Proposed NPL: Proposed National Priority List Sites
A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: N/A
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 07/08/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/20/2014
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens
Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions
The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: N/A
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 07/08/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/20/2014
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 05/29/2014
Number of Days to Update: 94	Next Scheduled EDR Contact: 09/08/2014
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing
A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/31/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/08/2013	Telephone: 703-603-8704
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 07/08/2014
Number of Days to Update: 151	Next Scheduled EDR Contact: 10/20/2014
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned
Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 05/29/2014
Number of Days to Update: 94	Next Scheduled EDR Contact: 09/08/2014
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transportors are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List
A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/19/2014
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 116

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 06/05/2014
Next Scheduled EDR Contact: 09/22/2014
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls
A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/19/2014
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 116

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 06/05/2014
Next Scheduled EDR Contact: 09/22/2014
Data Release Frequency: Varies

LUCIS: Land Use Control Information System
LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2014
Date Data Arrived at EDR: 05/30/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 18

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/19/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/30/2013
Date Data Arrived at EDR: 10/01/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 66

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 07/03/2014
Next Scheduled EDR Contact: 07/14/2014
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Inactive Hazardous Waste Disposal Sites in New York State
Referred to as the State Superfund Program, the Inactive Hazardous Waste Disposal Site Remedial Program is the cleanup program for inactive hazardous waste sites and now includes hazardous substance sites.

Date of Government Version: 05/19/2014
Date Data Arrived at EDR: 05/21/2014
Date Made Active in Reports: 06/10/2014
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 07/17/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Annually

VAPOR REOPENED: Vapor Intrusion Legacy Site List
New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at sites. As a result, all past, current, and future contaminated sites will be evaluated to determine whether these sites have the potential for exposures related to soil vapor intrusion.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 05/22/2014
Date Made Active in Reports: 06/13/2014
Number of Days to Update: 22
Source: Department of Environmental Conservation
Telephone: 518-402-9814
Last EDR Contact: 05/22/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Varies

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Facility Register
Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 04/09/2014
Date Data Arrived at EDR: 04/10/2014
Date Made Active in Reports: 05/07/2014
Number of Days to Update: 27
Source: Department of Environmental Conservation
Telephone: 518-457-2051
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/08/2014
Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LTANKS: Spills Information Database
Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

Date of Government Version: 05/19/2014
Date Data Arrived at EDR: 05/22/2014
Date Made Active in Reports: 06/11/2014
Number of Days to Update: 20
Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 05/22/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Varies

HIST LTANKS: Listing of Leaking Storage Tanks
A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6
Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 05/12/2014
Date Data Arrived at EDR: 05/12/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 36
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/28/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 184
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/02/2014
Next Scheduled EDR Contact: 08/11/2014
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/06/2013
Date Data Arrived at EDR: 11/07/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 29
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/28/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 03/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 42
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/28/2014
Date Data Arrived at EDR: 05/01/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 47
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/14/2014
Date Data Arrived at EDR: 05/15/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 61
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/20/2014
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 04/24/2014
Date Data Arrived at EDR: 04/25/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 53
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/22/2014
Next Scheduled EDR Contact: 08/11/2014
Data Release Frequency: Semi-Annually

State and tribal registered storage tank lists

TANKS: Storage Tank Facility Listing
This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

Date of Government Version: 03/31/2014
Date Data Arrived at EDR: 04/02/2014
Date Made Active in Reports: 05/05/2014
Number of Days to Update: 33

Source: Department of Environmental Conservation
Telephone: 518-402-9543
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Quarterly

UST: Petroleum Bulk Storage (PBS) Database
Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

Date of Government Version: 03/31/2014
Date Data Arrived at EDR: 04/02/2014
Date Made Active in Reports: 05/01/2014
Number of Days to Update: 29

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: No Update Planned

CBS UST: Chemical Bulk Storage Database
Facilities that store regulated hazardous substances in underground tanks of any size

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 10/24/2005
Next Scheduled EDR Contact: 01/23/2006
Data Release Frequency: No Update Planned

MOSF UST: Major Oil Storage Facilities Database
Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: Varies

AST: Petroleum Bulk Storage
Registered Aboveground Storage Tanks.

Date of Government Version: 03/31/2014
Date Data Arrived at EDR: 04/02/2014
Date Made Active in Reports: 05/01/2014
Number of Days to Update: 29

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: No Update Planned

CBS AST: Chemical Bulk Storage Database
Facilities that store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

MOSF AST: Major Oil Storage Facilities Database
Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

CBS: Chemical Bulk Storage Site Listing
These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

Date of Government Version: 03/31/2014
Date Data Arrived at EDR: 04/02/2014
Date Made Active in Reports: 04/29/2014
Number of Days to Update: 27

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Quarterly

MOSF: Major Oil Storage Facility Site Listing
These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 03/31/2014
Date Data Arrived at EDR: 04/02/2014
Date Made Active in Reports: 04/29/2014
Number of Days to Update: 27

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 01/27/2014
Number of Days to Update: 271

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/02/2014
Next Scheduled EDR Contact: 08/11/2014
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 04/24/2014
Date Data Arrived at EDR: 04/25/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 53

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/22/2014
Next Scheduled EDR Contact: 08/11/2014
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 05/12/2014
Date Data Arrived at EDR: 05/12/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 36

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/28/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/14/2014
Date Data Arrived at EDR: 05/15/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 33

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Semi-Annually

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations)

Date of Government Version: 05/07/2014
Date Data Arrived at EDR: 05/09/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 39

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 05/28/2014
Date Data Arrived at EDR: 05/01/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 47

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/04/2014
Date Data Arrived at EDR: 04/08/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 70

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 05/12/2014
Date Data Arrived at EDR: 05/14/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 34

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/08/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Registry of Engineering Controls
Environmental Remediation sites that have engineering controls in place.

Date of Government Version: 05/19/2014
Date Data Arrived at EDR: 05/21/2014
Date Made Active in Reports: 06/10/2014
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 07/17/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Quarterly

INST CONTROL: Registry of Institutional Controls
Environmental Remediation sites that have institutional controls in place.

Date of Government Version: 05/19/2014
Date Data Arrived at EDR: 05/21/2014
Date Made Active in Reports: 06/10/2014
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 07/17/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Quarterly

RES DECL: Restrictive Declarations Listing
A restrictive declaration is a covenant running with the land which binds the present and future owners of the property. As a condition of certain special permits, the City Planning Commission may require an applicant to sign and record a restrictive declaration that places specified conditions on the future use and development of the property. Certain restrictive declarations are indicated by a D on zoning maps.

Date of Government Version: 11/18/2010
Date Data Arrived at EDR: 06/30/2014
Date Made Active in Reports: 07/21/2014
Number of Days to Update: 21

Source: NYC Department of City Planning
Telephone: 212-720-3401
Last EDR Contact: 06/26/2014
Next Scheduled EDR Contact: 10/06/2014
Data Release Frequency: No Update Planned

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 03/20/2014
Date Data Arrived at EDR: 04/01/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 77

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 07/01/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Agreements
New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. The Voluntary Cleanup Program was developed to enhance private sector cleanup of brownfields by enabling parties to remediate sites using private rather than public funds and to reduce the development pressures on "greenfield" sites.

Date of Government Version: 05/19/2014
Date Data Arrived at EDR: 05/21/2014
Date Made Active in Reports: 06/10/2014
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-402-9711
Last EDR Contact: 07/17/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Semi-Annually

State and tribal Brownfields sites

ERP: Environmental Restoration Program Listing
In an effort to spur the cleanup and redevelopment of brownfields, New Yorkers approved a $200 million Environmental Restoration or Brownfields Fund as part of the $1.75 billion Clean Water/Clean Air Bond Act of 1996 (1996 Bond Act). Enhancements to the program were enacted on October 7, 2003. Under the Environmental Restoration Program, the State provides grants to municipalities to reimburse up to 90 percent of on-site eligible costs and 100% of off-site eligible costs for site investigation and remediation activities. Once remediated, the property may then be reused for commercial, industrial, residential or public use.

Date of Government Version: 05/19/2014
Date Data Arrived at EDR: 05/21/2014
Date Made Active in Reports: 06/10/2014
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 07/17/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Quarterly

BROWNFIELDS: Brownfields Site List
A Brownfield is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant.

Date of Government Version: 05/19/2014
Date Data Arrived at EDR: 05/21/2014
Date Made Active in Reports: 06/10/2014
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-402-9764
Last EDR Contact: 07/17/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Semi-Annually

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/20/2014
Date Data Arrived at EDR: 03/20/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 07/03/2014
Next Scheduled EDR Contact: 10/06/2014
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/28/2014
Next Scheduled EDR Contact: 08/11/2014
Data Release Frequency: No Update Planned

SWTIRE: Registered Waste Tire Storage & Facility List
A listing of facilities registered to accept waste tires.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 11/15/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-8694
Last EDR Contact: 07/21/2014
Next Scheduled EDR Contact: 11/03/2014
Data Release Frequency: Annually

SWRCY: Registered Recycling Facility List
A listing of recycling facilities.

Date of Government Version: 04/09/2014
Date Data Arrived at EDR: 04/10/2014
Date Made Active in Reports: 05/07/2014
Number of Days to Update: 27

Source: Department of Environmental Conservation
Telephone: 518-402-8705
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Semi-Annually

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 05/02/2014
Next Scheduled EDR Contact: 08/18/2014
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/28/2014
Date Data Arrived at EDR: 06/20/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 25

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 06/04/2014
Next Scheduled EDR Contact: 09/15/2014
Data Release Frequency: Quarterly

DEL SHWS: Delisted Registry Sites
A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

Date of Government Version: 05/19/2014
Date Data Arrived at EDR: 05/21/2014
Date Made Active in Reports: 06/10/2014
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 07/17/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Annually

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/28/2014
Date Data Arrived at EDR: 06/20/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 25

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 06/04/2014
Next Scheduled EDR Contact: 09/15/2014
Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

HIST UST: Historical Petroleum Bulk Storage Database
These facilities have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. It is no longer updated due to the sensitive nature of the information involved. See UST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

HIST AST: Historical Petroleum Bulk Storage Database
These facilities have petroleum storage capabilities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. No longer updated due to the sensitive nature of the information involved. See AST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

LIENS: Spill Liens Information
Lien information from the Oil Spill Fund.

Date of Government Version: 05/21/2014
Date Data Arrived at EDR: 05/22/2014
Date Made Active in Reports: 06/10/2014
Number of Days to Update: 19

Source: Office of the State Comptroller
Telephone: 518-474-9034
Last EDR Contact: 05/12/2014
Next Scheduled EDR Contact: 08/25/2014
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/31/2014
Date Data Arrived at EDR: 04/01/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 105

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 07/01/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Annually

SPILLS: Spills Information Database
Data collected on spills reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

Date of Government Version: 05/19/2014
Date Data Arrived at EDR: 05/22/2014
Date Made Active in Reports: 06/11/2014
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 05/22/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Varies

HIST SPILLS: SPILLS Database
This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch
Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 11/02/2010
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/07/2013
Number of Days to Update: 63

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 90: SPILLS90 data from FirstSearch
Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 12/14/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/12/2013
Number of Days to Update: 40

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/06/2014
Next Scheduled EDR Contact: 08/18/2014
Data Release Frequency: Varies

DOD: Department of Defense Sites
This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites
The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 02/28/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 55

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 06/04/2014
Next Scheduled EDR Contact: 09/22/2014
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 01/24/2014
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 31

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/30/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Varies

ROD: Records Of Decision
Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/10/2014
Next Scheduled EDR Contact: 09/22/2014
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites
Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/25/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Varies

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 01/30/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 132

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 06/06/2014
Next Scheduled EDR Contact: 09/15/2014
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System
Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/31/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 44

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/30/2014
Next Scheduled EDR Contact: 09/08/2014
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act
Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/25/2014
Next Scheduled EDR Contact: 10/06/2014
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 05/22/2014
Next Scheduled EDR Contact: 09/08/2014
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 05/22/2014
Next Scheduled EDR Contact: 09/08/2014
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 05/06/2014
Date Data Arrived at EDR: 05/16/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 10/09/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2013
Date Data Arrived at EDR: 07/17/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 107

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/22/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 06/05/2014
Next Scheduled EDR Contact: 09/22/2014
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/08/2014
Date Data Arrived at EDR: 04/09/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/10/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/18/2013
Date Data Arrived at EDR: 02/27/2014
Date Made Active in Reports: 03/12/2014
Number of Days to Update: 13

Source: EPA
Telephone: (212) 637-3000
Last EDR Contact: 06/13/2014
Next Scheduled EDR Contact: 09/22/2014
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System
RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans
When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 11/01/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

BRS: Biennial Reporting System
The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/19/2013
Number of Days to Update: 52

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/30/2014
Next Scheduled EDR Contact: 09/08/2014
Data Release Frequency: Biennially

HSWDS: Hazardous Substance Waste Disposal Site Inventory
The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-Registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity. The last version of the study inventory is frozen in time. The sites on the study will not automatically be made Superfund sites, rather each site will be further evaluated for listing on the Registry. So overtime they will be added to the registry or not.

Date of Government Version: 01/01/2003
Date Data Arrived at EDR: 10/20/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 518-402-9564
Last EDR Contact: 05/26/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: No Update Planned

UIC: Underground Injection Control Wells
A listing of enhanced oil recovery underground injection wells.

Date of Government Version: 03/07/2014
Date Data Arrived at EDR: 03/12/2014
Date Made Active in Reports: 04/25/2014
Number of Days to Update: 44

Source: Department of Environmental Conservation
Telephone: 518-402-8056
Last EDR Contact: 06/12/2014
Next Scheduled EDR Contact: 09/22/2014
Data Release Frequency: Quarterly

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 05/01/2014
Date Data Arrived at EDR: 05/07/2014
Date Made Active in Reports: 06/10/2014
Number of Days to Update: 34

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/07/2014
Next Scheduled EDR Contact: 08/18/2014
Data Release Frequency: Annually

DRYCLEANERS: Registered Drycleaners
A listing of all registered drycleaning facilities.

Date of Government Version: 04/17/2014
Date Data Arrived at EDR: 04/18/2014
Date Made Active in Reports: 05/07/2014
Number of Days to Update: 19

Source: Department of Environmental Conservation
Telephone: 518-402-8403
Last EDR Contact: 06/16/2014
Next Scheduled EDR Contact: 09/29/2014
Data Release Frequency: Varies

SPDES: State Pollutant Discharge Elimination System
New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

Date of Government Version: 05/29/2014
Date Data Arrived at EDR: 05/30/2014
Date Made Active in Reports: 08/12/2014
Number of Days to Update: 13

Source: Department of Environmental Conservation
Telephone: 518-402-8233
Last EDR Contact: 05/27/2014
Next Scheduled EDR Contact: 08/11/2014
Data Release Frequency: No Update Planned

AIRS: Air Emissions Data
Point source emissions inventory data.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 11/01/2013
Date Made Active in Reports: 01/09/2014
Number of Days to Update: 69

Source: Department of Environmental Conservation
Telephone: 518-402-8452
Last EDR Contact: 04/28/2014
Next Scheduled EDR Contact: 08/11/2014
Data Release Frequency: Annually

E DESIGNATION: E DESIGNATION SITE LISTING
The (E (Environmental)) designation would ensure that sampling and remediation take place on the subject properties, and would avoid any significant impacts related to hazardous materials at these locations. The (E) designations would require that the fee owner of the sites conduct a testing and sampling protocol, and remediation where appropriate, to the satisfaction of the NYCDEP before the issuance of a building permit by the Department of Buildings pursuant to the provisions of Section 11-15 of the Zoning Resolution (Environmental Requirements). The (E) designations also include a mandatory construction-related health and safety plan which must be approved by NYCDEP.

Date of Government Version: 06/18/2014
Date Data Arrived at EDR: 06/30/2014
Date Made Active in Reports: 07/02/2014
Number of Days to Update: 2

Source: New York City Department of City Planning
Telephone: 718-595-6858
Last EDR Contact: 06/20/2014
Next Scheduled EDR Contact: 10/06/2014
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations
This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing
The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 07/21/2014
Next Scheduled EDR Contact: 11/03/2014
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial assurance information.

Date of Government Version: 04/09/2014
Date Data Arrived at EDR: 04/11/2014
Date Made Active in Reports: 05/07/2014
Number of Days to Update: 26

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List
The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/16/2014
Next Scheduled EDR Contact: 08/25/2014
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 01/29/2013
Date Data Arrived at EDR: 02/14/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/01/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites
A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a throat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 04/15/2013
Date Data Arrived at EDR: 07/03/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 72

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 07/01/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Quarterly

FEDLAND: Federal and Indian Lands
Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: N/A

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)
The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/23/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 30

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/25/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/23/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 30

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/25/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Annually

US FIN ASSUR: Financial Assurance Information
All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 02/25/2014
Date Data Arrived at EDR: 02/27/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 41

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 05/16/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Quarterly

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/01/2013
Date Data Arrived at EDR: 12/05/2013
Date Made Active in Reports: 02/17/2014
Number of Days to Update: 74

Source: Department of Environmental Conservation
Telephone: 518-402-8712
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 05/02/2014
Next Scheduled EDR Contact: 08/11/2014
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/11/2014
Next Scheduled EDR Contact: 09/22/2014
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Site Listing
A listing of coal ash disposal site locations.

Date of Government Version: 04/09/2014
Date Data Arrived at EDR: 04/11/2014
Date Made Active in Reports: 05/07/2014
Number of Days to Update: 26

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Varies

COAL ASH DOE: Steam-Electric Plan Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Varies

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 05/16/2014
Next Scheduled EDR Contact: 08/25/2014
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/10/2014
Number of Days to Update: 193

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

CORTLAND COUNTY:

Cortland County Storage Tank Listing

A listing of aboveground storage tank sites located in Cortland County.

Date of Government Version: 05/30/2014
Date Data Arrived at EDR: 05/30/2014
Date Made Active in Reports: 06/13/2014
Number of Days to Update: 14

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 05/05/2014
Next Scheduled EDR Contact: 08/18/2014
Data Release Frequency: Quarterly

Cortland County Storage Tank Listing

A listing of underground storage tank sites located in Cortland County.

Date of Government Version: 05/30/2014
Date Data Arrived at EDR: 05/30/2014
Date Made Active in Reports: 06/13/2014
Number of Days to Update: 14

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 05/05/2014
Next Scheduled EDR Contact: 08/18/2014
Data Release Frequency: Quarterly

NASSAU COUNTY:

Registered Tank Database

A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 11/20/2013
Date Data Arrived at EDR: 11/22/2013
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 81

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 07/07/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 05/05/2014
Next Scheduled EDR Contact: 08/18/2014
Data Release Frequency: Varies

Registered Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 11/20/2013
Date Data Arrived at EDR: 11/22/2013
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 81

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 07/07/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 05/05/2014
Next Scheduled EDR Contact: 08/18/2014
Data Release Frequency: Varies

ROCKLAND COUNTY:

Petroleum Bulk Storage Database
A listing of aboveground storage tank sites located in Rockland County.

Date of Government Version: 03/14/2014
Date Data Arrived at EDR: 03/14/2014
Date Made Active in Reports: 05/07/2014
Number of Days to Update: 54

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 06/09/2014
Next Scheduled EDR Contact: 09/22/2014
Data Release Frequency: Quarterly

Petroleum Bulk Storage Database
A listing of underground storage tank sites located in Rockland County.

Date of Government Version: 03/14/2014
Date Data Arrived at EDR: 03/14/2014
Date Made Active in Reports: 05/07/2014
Number of Days to Update: 54

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 06/09/2014
Next Scheduled EDR Contact: 09/22/2014
Data Release Frequency: Quarterly

SUFFOLK COUNTY:

Storage Tank Database
A listing of aboveground storage tank sites located in Suffolk County.

Date of Government Version: 01/30/2014
Date Data Arrived at EDR: 02/28/2014
Date Made Active in Reports: 04/03/2014
Number of Days to Update: 34

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 05/05/2014
Next Scheduled EDR Contact: 08/18/2014
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of underground storage tank sites located in Suffolk County.

Date of Government Version: 01/30/2014
Date Data Arrived at EDR: 02/28/2014
Date Made Active in Reports: 04/03/2014
Number of Days to Update: 34

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 05/05/2014
Next Scheduled EDR Contact: 08/18/2014
Data Release Frequency: No Update Planned

WESTCHESTER COUNTY:

Listing of Storage Tanks
A listing of aboveground storage tank sites located in Westchester County.

Date of Government Version: 03/18/2014
Date Data Arrived at EDR: 03/20/2014
Date Made Active in Reports: 04/25/2014
Number of Days to Update: 36

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 05/05/2014
Next Scheduled EDR Contact: 08/18/2014
Data Release Frequency: Varies

Listing of Storage Tanks
A listing of underground storage tank sites located in Westchester County.

Date of Government Version: 03/18/2014
Date Data Arrived at EDR: 03/20/2014
Date Made Active in Reports: 04/25/2014
Number of Days to Update: 36

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 05/05/2014
Next Scheduled EDR Contact: 08/18/2014
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specially databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/23/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/17/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2012	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/24/2013	Telephone: 717-783-8990
Date Made Active in Reports: 08/19/2013	Last EDR Contact: 07/18/2014
Number of Days to Update: 26	Next Scheduled EDR Contact: 11/03/2014
	Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2012	Source: Department of Environmental Management
Date Data Arrived at EDR: 06/21/2013	Telephone: 401-222-2797
Date Made Active in Reports: 08/05/2013	Last EDR Contact: 05/27/2014
Number of Days to Update: 45	Next Scheduled EDR Contact: 09/08/2014
	Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 03/27/2014	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 06/12/2014	Telephone: 802-241-3443
Date Made Active in Reports: 07/17/2014	Last EDR Contact: 07/21/2014
Number of Days to Update: 35	Next Scheduled EDR Contact: 11/03/2014
	Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 08/09/2013	Telephone: N/A
Date Made Active in Reports: 09/27/2013	Last EDR Contact: 06/16/2014
Number of Days to Update: 49	Next Scheduled EDR Contact: 09/29/2014
	Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Providers
Source: Department of Health
Telephone: 212-676-2444

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

430-432 VAN BRUNT STREET
430-432 VAN BRUNT ST
BROOKLYN, NY 11231

TARGET PROPERTY COORDINATES

Latitude (North):	40.6756 - 40' 40' 32.16"
Longitude (West):	74.0153 - 74' 0' 55.08"
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	583222.3
UTM Y (Meters):	4503001.5
Elevation:	8 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	40074-F1 JERSEY CITY, NJ NY
Most Recent Revision:	1981
East Map:	40073-F8 BROOKLYN, NY
Most Recent Revision:	1995

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

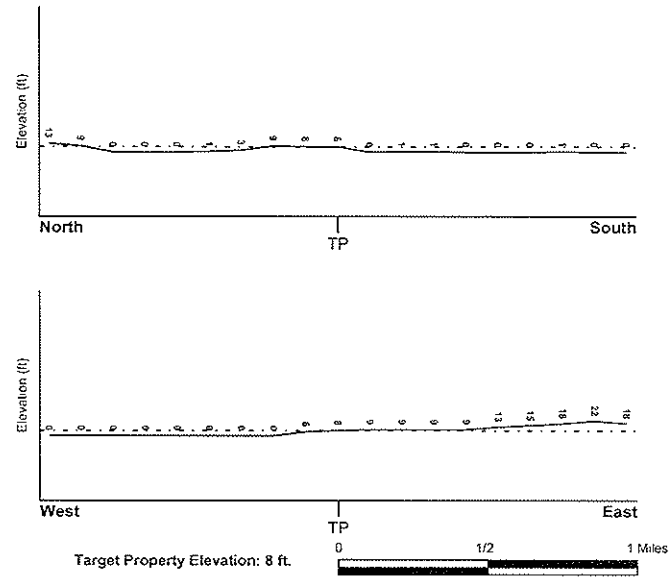
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
KINGS, NY	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 360497 - FEMA DFIRM Flood data

Additional Panels in search area:
3604970062B - FEMA Q3 Flood data
3604970063B - FEMA Q3 Flood data
3604970072B - FEMA Q3 Flood data
3604970073B - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
JERSEY CITY	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Location Relative to TP:	1 - 2 Miles NNW
Site Name:	SUPPORT CENTER - GOVERNOR'S ISLAND
Site EPA ID Number:	NY5690319889
Groundwater Flow Direction:	GENERALLY SSW.
Measured Depth to Water:	not available.
Hydraulic Connection:	Detailed hydraulic connection information is not available.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information is inferred in the CERCLIS investigation report(s)

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1990 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s) which were compiled under a Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Mesozoic
System:	Cretaceous
Series:	Upper Cretaceous
Code:	uK *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	URBAN LAND
Soil Surface Texture:	variable
Hydrologic Group:	Not reported
Soil Drainage Class:	Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	Not Reported
Depth to Bedrock Min:	> 10 inches
Depth to Bedrock Max:	> 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam
loamy sand
sandy loam
fine sandy loam

Surficial Soil Types: silt loam
loamy sand
sandy loam
fine sandy loam

Shallow Soil Types: sandy loam

Deeper Soil Types: unweathered bedrock
very gravelly - loamy sand
stratified
sandy loam

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000828171	1/8 - 1/4 Mile ESE
2	USGS40000828353	1/8 - 1/4 Mile NNW
3	USGS40000828275	1/4 - 1/2 Mile East
A4	USGS40000828200	1/2 - 1 Mile East
A5	USGS40000828254	1/2 - 1 Mile East
B6	USGS40000828453	1/2 - 1 Mile NE
7	USGS40000828339	1/2 - 1 Mile ENE
B8	USGS40000828462	1/2 - 1 Mile NE
9	USGS40000828002	1/2 - 1 Mile SE
C10	USGS40000828193	1/2 - 1 Mile East
C11	USGS40000828183	1/2 - 1 Mile East
12	USGS40000828452	1/2 - 1 Mile NE
13	USGS40000828410	1/2 - 1 Mile ENE
14	USGS40000828559	1/2 - 1 Mile NE
15	USGS40000828265	1/2 - 1 Mile East

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 4017064.2s

- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: 430-432 Van Brunt Street ADDRESS: 430-432 VAN BRUNT ST Brooklyn NY 11231 LAT/LONG: 40.6756 / 74.0153	CLIENT: PT Consultants, Inc. CONTACT: Denis Cummings INQUIRY #: 4017064.2s DATE: July 25, 2014 8:39 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
1 **ESE** **1/8 - 1/4 Mile** **Lower**		**FED USGS**	**USGS40000828171**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404028074004901		
Monloc name:	K 1900. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6745476
Longitude:	-74.0131953	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	10.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	135
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

2 **NNW** **1/8 - 1/4 Mile** **Higher**		**FED USGS**	**USGS40000828353**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404044074010001		
Monloc name:	K 705. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.678992
Longitude:	-74.0162509	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	10.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	151
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

3
East
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000828275**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404035074003001		
Monloc name:	K 704. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6764921
Longitude:	-74.0079174	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	7.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	130
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

A4
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000828200**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404031074001501		
Monloc name:	K 700. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.675381
Longitude:	-74.0037506	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	6.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	116
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

A5
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000828254**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404032074001401		
Monloc name:	K 1069. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6756588
Longitude:	-74.0034728	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	11.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	60
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 55

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1980-03-13		1.31	1979-12-18		2.00
1979-09-17		1.80	1979-06-28		2.50
1979-03-26		1.89	1978-12-22		1.49
1978-10-02		1.88	1978-06-23		2.80
1978-04-04		2.97	1978-01-03		2.73
1977-10-13		2.65	1977-07-07		2.34
1977-03-28		1.43	1976-12-22		1.84
1976-09-23		2.10	1976-06-28		2.40
1976-03-23		2.35	1975-12-30		2.33
1975-10-08		2.57	1975-06-30		2.29
1975-03-26		2.27	1974-12-20		2.38
1974-09-05		2.44	1973-10-02		2.57
1973-07-09		0.23	1973-04-03		0.56
1972-12-27		1.07	1972-10-03		0.50
1972-07-11		0.30	1972-03-28		0.90
1972-01-13		1.86	1971-09-27		2.81
1971-03-08		2.01	1970-10-30		1.94
1970-03-13		1.75	1969-11-10		0.99
1969-09-03		1.05	1968-11-06		1.43

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1968-04-23		1.43	1967-10-23		1.46
1967-03-29		1.61	1966-10-25		-0.78
1966-05-04		1.46	1965-10-27		1.59
1965-09-14		1.72	1965-05-04		1.86
1964-11-02		1.28	1964-04-23		1.32
1963-04-25		1.75	1961-12-28		1.76
1960-09-09		0.73	1960-01-11		0.82
1954-12-17		0.06	1953-12-23		-0.11
1953-01-15		-0.34			

B6
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000828453**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404055074002601		
Monloc name:	K 1191. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6820475
Longitude:	-74.0068062	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	60
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

7
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000828339**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404041074001401		
Monloc name:	K 703. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6781587
Longitude:	-74.0034728	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	16.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	138
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

B8
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000828462**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404056074002501		
Monloc name:	K 1190. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6823253
Longitude:	-74.0065284	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	10.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	65
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

9
SE
1/2 - 1 Mile
Lower

FED USGS **USGS40000828002**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404006074002701		
Monloc name:	K 701. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6684367
Longitude:	-74.007084	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifermame:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	83
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

C10
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000828193**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc identifier:	USGS-404030074000701		
Monloc name:	K 1091. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6751032
Longitude:	-74.0015283	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	11.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifermame:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	124
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

C11
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000828183**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc identifier:	USGS-404029074000601		
Monloc name:	K 720. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6748255
Longitude:	-74.0012505	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	13.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifermame:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	103
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

12
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000828452**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc identifier:	USGS-404055074001101		
Monloc name:	K 1192. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6820475
Longitude:	-74.0026394	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	30.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifermame:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	112
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

13
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000828410**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc identifier:	USGS-404049074000101		
Monloc name:	K 669. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6803809
Longitude:	-73.9998616	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	48.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	182
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

14
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000828559**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404111074002001		
Monloc name:	K 1561. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6864919
Longitude:	-74.0051395	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	5.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	60
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

15
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000828265**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404033073595001		
Monloc name:	K 1536. 1		
Monloc type:	Well		
Monloc desc:	5001		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6759366
Longitude:	-73.9968059	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	14.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	156
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for KINGS County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for KINGS COUNTY, NY

Number of sites tested: 51

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	0.750 pCi/L	100%	0%	0%
Basement	1.370 pCi/L	88%	10%	2%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

New York Public Water Wells
Source: New York Department of Health
Telephone: 518-458-6731

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database
Department of Environmental Conservation
Telephone: 518-402-8072
These files contain records, in the database, of wells that have been drilled.

RADON

State Database: NY Radon
Source: Department of Health
Telephone: 518-402-7556
Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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APPENDIX 6
LOCAL ZONING RECORDS

NYC Buildings

NYC

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NYC Department of Buildings

Property Profile Overview

430 VAN BRUNT STREET — **BROOKLYN 11231** — **BIN# 3846916**

VAN BRUNT STREET 430 - 430

Health Area	: 4100	**Tax Block**	: 603
Census Tract	: 53	**Tax Lot**	: 23
Community Board	: 306	**Condo**	: NO
		Vacant	: YES

View DCP Addresses... Browse Block

View Zoning Documents | View Challenge Results | Pre - BIS PA | View Certificates of Occupancy

Cross Street(s):	VAN DYKE STREET, BEARD STREET		
DOB Special Place Name:			
DOB Building Remarks:			
Landmark Status:		**Special Status:**	N/A
Local Law:	NO	**Loft Law:**	NO
SRO Restricted:	NO	**TA Restricted:**	NO
UB Restricted:	NO		
Environmental Restrictions:	HAZMAT	**Grandfathered Sign:**	NO
Legal Adult Use:	NO	**City Owned:**	NO
Additional BINs for Building:	NONE		

Special District: MX-5 - MIXED USE-5 (RED HOOK, BK)

This property is not located in an area that may be affected by Tidal Wetlands, Freshwater Wetlands, or Coastal Erosion Hazard Area. Click here for more information

Department of Finance Building Classification: V1-VACANT LAND

Please Note: The Department of Finance's building classification information shows a building's tax status, which may not be the same as the legal use of the structure. To determine the legal use of a structure, research the records of the Department of Buildings.

	Total	Open
Complaints	4	0
Violations-DOB	6	6
Violations-ECB (DOB)	6	5

This property has 3 open DOB and 2 open ECB "Work Without A Permit" Violations and may be subject to DOB civil penalties upon application for a permit. After obtaining the permit, a certificate of correction must be filed on the ECB violations.

Jobs/Filings	0
ARA / LAA Jobs	0
Total Jobs	0
Actions	6

OR Enter Action Type:

OR Select from List: Select...

AND Show Actions

- Elevator Records
- Electrical Applications
- Permits In-Process / Issued
- Illuminated Signs Annual Permits
- Plumbing Inspections
- Open Plumbing Jobs / Work Types
- Facades
- Marquee Annual Permits
- Boiler Records
- DEP Boiler Information
- Crane Information
- After Hours Variance Permits

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NYC Department of Buildings

Actions

Premises: 430 VAN BRUNT STREET BROOKLYN BIN: 3846916 Block: 603 Lot: 23

NUMBER	TYPE	FILE DATE
ALT 3693/53	ALTERATION	08/18/1953
BN 1093/50	BUILDING NOTICE	02/05/1950
DEM 73/32	DEMOLITION	04/12/1932
NB 36/52	NEW BUILDING	01/16/1952
PRS 3881/49	PLUMBING REPAIR SLIP	12/29/1949
PRS 5374/53	PLUMBING REPAIR SLIP	12/30/1953
V 072497C06SC01	DOB VIOLATION - ACTIVE	07/24/1997
VW 072497C06SC02	VIOLATION WORK WITHOUT PERMIT - ACTIVE	07/24/1997
V 112597C06M01	DOB VIOLATION - ACTIVE	11/25/1997
V 090198C06HS02	DOB VIOLATION - ACTIVE	09/01/1998
VW 051299C06M02	VIOLATION WORK WITHOUT PERMIT - ACTIVE	05/12/1999
VW 050901C06MC05	VIOLATION WORK WITHOUT PERMIT - ACTIVE	05/09/2001
VECB 090198C06HS02	ECB VIOLATION - ACTIVE	09/01/1998
VECB 072497C06SC01	ECB VIOLATION - ACTIVE	07/24/1997
VECB 072497C06SC02	ECB VIOLATION - ACTIVE	07/24/1997
VECB 112597C06M01	ECB VIOLATION - ACTIVE	11/25/1997
VECB 050901C06MC05	ECB VIOLATION - ACTIVE	05/09/2001
VEC* 121009E2321C02	ECB VIOLATION DISMISSED	12/10/2009

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

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NYC Department of Buildings

DOB Violation Display for 072497C06SC01

Premises: 430 VAN BRUNT STREET BROOKLYN **BIN: 3846916** **Block: 603** **Lot: 23**

Issue Date:	07/24/1997	**Violation Category:**	V - DOB VIOLATION - ACTIVE
Violation Type:	C - CONSTRUCTION		
Violation Number:	06SC01	**Device No.:**	
ECB No.:	34160291N (refer to for further details)		
Description:	OCCUPANCY CONTRARY TO THAT ALLOWED BY BUILDING DEPT RECORDS: IN THAT DEMO NUMBER 73 OF 1A32 INDICATES A VACANT LOT, CURRENT USE HAS BEEN CHANGED TO USE GROUP 16 OCCUPANCY GROUPD B2-DEAD STORAGE OF APROXIMATE LY 3 TRACTOR TRAILORS AND 3 LARGE COMMERCIAL TRUCKS REMEDY: DISCONTINUE ILLEGAL USE		

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

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NYC Department of Buildings

DOB Violation Display for 072497C06SC02

Premises: 430 VAN BRUNT STREET BROOKLYN **BIN: 3846916 Block: 603 Lot: 23**

Issue Date:	07/24/1997	**Violation Category:**	VW - VIOLATION WORK WITHOUT PERMIT - ACTIVE
Violation Type:	C - CONSTRUCTION		
Violation Number:	06SC02	**Device No.:**	
ECB No.:	34160292P (refer to for further details)		
Description:	WORK WITHOUT A PERMIT. WORK NOTED: HAVING CONSTRUCTED A 20'X30' CARPORT MADE OUT OF WOOD AND SHEET METAL, HOUSING A LARGE TRUCK REMEDY: FILE PLANS AND OBTAIN A PERMIT IF FEASIBLE.OR REATORE TO PRIOR LEGAL CONDITION		

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

NYC Buildings

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NYC Department of Buildings

ECB Violation Details

Premises: 430 VAN BRUNT STREET BROOKLYN

Filed At: 430 VAN BRUNT STREET , BROOKLYN , NY 11231

BIN: 3846916 **Block:** 603 **Lot:** 23

Community Board: 306

ECB Violation Summary

VIOLATION OPEN

ECB Violation Number: 34162147H

Severity: NON-HAZARDOUS

Certification Status: NO COMPLIANCE RECORDED

Hearing Status: WRITTEN OFF

Penalty Balance Due: $0.00

Respondent Information

Name: OWNER OF

Mailing Address: 430 VAN BRUNT STREET , BROOKLYN , NY 11231

Violation Details

Violation Date: 11/25/1997

Violation Type: CONSTRUCTION

Served Date: 01/16/1998

Inspection Unit:

Infraction Codes	Section of Law	Standard Description
B03	27-217	OCCUPANCY CONTRARY TO THAT ALLOWED BY THE C OF O BLDG DEPT RECORDS

Specific Violation Condition(s) and Remedy:

OCCUPANCY CONTRARY TO THAT ALLOWED BY THE DEPARTMENT OF BUILDING RECORDS. DEMO # 73/32 INDICATES A VACANT LOT NOW USE AS STORAGE OF TRUCKS (7). REMEDY: AMEND C OF O OR OBTAIN VALID C OF O.

Issuing Inspector ID: 0427

DOB Violation Number: 112597C06M01

Issued as Aggravated Level: NO

Dept. of Buildings Compliance Information

Certification Status: NO COMPLIANCE RECORDED

Compliance On:

A Certificate of Correction must be submitted to the Administrative Enforcement Unit (AEU) for all violations. A violation that is not dismissed by ECB will continue to remain ACTIVE or "open" on DOB records until acceptable proof is submitted to the AEU, even if you have paid the penalty imposed by ECB.

ECB Hearing Information

Hearing Status: WRITTEN OFF

ECB Penalty Information

Penalty Imposed:	$2,500.00
Adjustments:	$-2,500.00
Amount Paid:	$0.00
Penalty Balance Due:	$0.00
Court Docket Date:	07/31/1998

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

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NYC Department of Buildings

DOB Violation Display for 090198C06HS02

Premises: 430 VAN BRUNT STREET BROOKLYN **BIN: 3846916** **Block: 603** **Lot: 23**

Issue Date:	09/01/1998	**Violation Category:**	V - DOB VIOLATION - ACTIVE
Violation Type:	C - CONSTRUCTION		
Violation Number:	06HS02	**Device No.:**	
ECB No.:	34183570H (refer to for further details)		
Description:			

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

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NYC Department of Buildings

ECB Violation Details

Premises: 430 VAN BRUNT STREET BROOKLYN
Filed At: 430 VAN BRUNT STREET , BROOKLYN , NY 11231
BIN: 3846916 **Block:** 603 **Lot:** 23
Community Board: 306

ECB Violation Summary

VIOLATION OPEN

ECB Violation Number: 34183570H

Severity: NON-HAZARDOUS

Certification Status: NO COMPLIANCE RECORDED
Hearing Status: WRITTEN OFF
Penalty Balance Due: $0.00

Respondent Information

Name: PACE PAT
Mailing Address: 310 RICHMONDE HILL RD , SI , NY 10314

Violation Details

Violation Date: 09/01/1998
Violation Type: CONSTRUCTION
Served Date: 09/17/1998
Inspection Unit:

Infraction Codes	Section of Law	Standard Description
B03	27-217	OCCUPANCY CONTRARY TO THAT ALLOWED BY THE C OF O BLDG DEPT RECORDS

Specific Violation Condition(s) and Remedy:

OCCUPANCY CONTRARY TO BUILDING DEPARTMENT RECORDS VACANT LOT BEING USED FOR TRUCK STORAGE BUILDING DEPT RECORDS INDICATES DEMO #73/32 VACANT LOT PLATES STORED ON LOT

Issuing Inspector ID: 1058
DOB Violation Number: 090198C06HS02
Issued as Aggravated Level: NO

Dept. of Buildings Compliance Information

Certification Status: NO COMPLIANCE RECORDED
Compliance On:

A Certificate of Correction must be submitted to the Administrative Enforcement Unit (AEU) for all violations. A violation that is not dismissed by ECB will continue to remain ACTIVE or "open" on DOB records until acceptable proof is submitted to the AEU, even if you have paid the penalty imposed by ECB.

ECB Hearing Information

Hearing Status: WRITTEN OFF

ECB Penalty Information

Penalty Imposed:	$2,500.00
Adjustments:	$2,500.00
Amount Paid:	$0.00
Penalty Balance Due:	$0.00
Court Docket Date:	05/31/1999

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

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NYC Department of Buildings

DOB Violation Display for 051299C06M02

Premises: 430 VAN BRUNT STREET BROOKLYN **BIN: 3846916** **Block: 603** **Lot: 23**

Issue Date:	05/12/1999	**Violation Category:**	VW - VIOLATION WORK WITHOUT PERMIT - ACTIVE
Violation Type:	C - CONSTRUCTION		
Violation Number:	06M02	**Device No.:**	
ECB No.:	34209743J (refer to for further details)		
Description:	WORK WITHOUT A PERMIT:HAVING CONST'D A 20'X30'CARPORT MADE OUT OF WOOD AND METAL.HOUSING A LARGE TRUCK REMEDY:OBTAIN PERMIT OR REMOVE CARPORT		

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

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NYC Department of Buildings

ECB Violation Details

Premises: 430 VAN BRUNT STREET BROOKLYN
Filed At: 430 VAN BRUNT STREET , BROOKLYN , NY 11231
BIN: 3846916 **Block:** 603 **Lot:** 23
Community Board: 306

ECB Violation Summary

VIOLATION OPEN

ECB Violation Number: 34290808M

Severity: NON-HAZARDOUS

Certification Status: NO COMPLIANCE RECORDED
Hearing Status: WRITTEN OFF
Penalty Balance Due: $0.00

Respondent Information

Name: OWNER OF
Mailing Address: 430 VAN BRUNT STREET , BK , NY 11231

Violation Details

Violation Date: 05/09/2001
Violation Type: CONSTRUCTION
Served Date: 05/09/2001
Inspection Unit:

Infraction Codes	Section of Law	Standard Description
B04	27-147	WORK WITHOUT A PERMIT

Specific Violation Condition(s) and Remedy:

WORK WITHOUT A PERMIT:WORK NOTED.HAVING CONSTRUCTED A 20'X30'CARPORT MADE OUT OF WOOD AND METAL.HOUSING A LARGE COMMERCIAL TRUCK.REMEDY:FILE PLANS AND OBTAIN A PERMIT IF FEASIBLE OR RESTORE TO PRIOR.

Issuing Inspector ID:
DOB Violation Number: 050901C06MC05
Issued as Aggravated Level: NO

Dept. of Buildings Compliance Information

Certification Status: NO COMPLIANCE RECORDED
Compliance On:

A Certificate of Correction must be submitted to the Administrative Enforcement Unit (AEU) for all violations. A violation that is not dismissed by ECB will continue to remain ACTIVE or "open" on DOB records until acceptable proof is submitted to the AEU, even if you have paid the penalty imposed by ECB.

ECB Hearing Information

Hearing Status: WRITTEN OFF

ECB Penalty Information

Penalty Imposed:	$2,500.00
Adjustments:	$2,500.00
Amount Paid:	$0.00
Penalty Balance Due:	$0.00
Court Docket Date:	10/31/2001

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

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NYC Department of Buildings

ECB Violation Details

Premises: 430 VAN BRUNT STREET BROOKLYN
Filed At: 430 VAN BRUNT STREET , BROOKLYN , NY 11231
BIN: 3846916 **Block:** 603 **Lot:** 23
Community Board: 306

ECB Violation Summary

VIOLATION OPEN

ECB Violation Number: 34160291N

Severity: NON-HAZARDOUS

Certification Status: NO COMPLIANCE RECORDED
Hearing Status: WRITTEN OFF
Penalty Balance Due: $0.00

Respondent Information

Name: OWNER OF 430 VAN BRUNT
Mailing Address: , ,

Violation Details

Violation Date: 07/24/1997
Violation Type: CONSTRUCTION
Served Date: 09/25/1997
Inspection Unit:

Infraction Codes	Section of Law	Standard Description
B03	27-217	OCCUPANCY CONTRARY TO THAT ALLOWED BY THE C OF O BLDG DEPT RECORDS

Specific Violation Condition(s) and Remedy:

OCCUPANCY CONTRARY TO THAT ALLOWED BY BUILDING DEPT. RECORDS: IN THATDEMO NUMBER 73 OF 1932 INDICATES A VACANT LOT CURRENT USE HAS BEEN CHANGED TO USE GROUP 16 OCCUPANCY GROUP B2-DEAD STORAGE OF APPROXIMATELY

Issuing Inspector ID: 0860
DOB Violation Number: 072497C06SC01
Issued as Aggravated Level: NO

Dept. of Buildings Compliance Information

Certification Status: NO COMPLIANCE RECORDED
Compliance On:

A Certificate of Correction must be submitted to the Administrative Enforcement Unit (AEU) for all violations. A violation that is not dismissed by ECB will continue to remain ACTIVE or "open" on DOB records until acceptable proof is submitted to the AEU, even if you have paid the penalty imposed by ECB.

ECB Hearing Information

Hearing Status: WRITTEN OFF

ECB Penalty Information

Penalty Imposed:	$1,000.00
Adjustments:	$-1,000.00
Amount Paid:	$0.00
Penalty Balance Due:	$0.00
Court Docket Date:	04/30/1998

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

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NYC Department of Buildings

ECB Violation Details

Premises: 430 VAN BRUNT STREET BROOKLYN
Filed At: 430 VAN BRUNT STREET , BROOKLYN , NY 11231
BIN: 3846916 **Block:** 603 **Lot:** 23
Community Board: 306

ECB Violation Summary

VIOLATION OPEN

ECB Violation Number: 34160292P

Severity: NON-HAZARDOUS

Certification Status: NO COMPLIANCE RECORDED
Hearing Status: WRITTEN OFF
Penalty Balance Due: $0.00

Respondent Information

Name: OWNER FO 430 VAN BRUNT
Mailing Address: , ,

Violation Details

Violation Date: 07/24/1997
Violation Type: CONSTRUCTION
Served Date: 09/25/1997
Inspection Unit:

Infraction Codes	Section of Law	Standard Description
B04	27-147	WORK WITHOUT A PERMIT

Specific Violation Condition(s) and Remedy:

OWRK WITHOUT A PERMIT, OWRK NOTED: HAVING CONSTRUCTED A 20'X30' CARPORT MADE OUT OF WOOD AND SHEET METAL, HOUSING A LARGE COMMERCIAL TRUCK.REMEDY: FILE PLANS AND OBTAIN A PERMIT IF FEASIBLE OR RESTORE TO PRIOR

Issuing Inspector ID: 0860
DOB Violation Number: 072497C06SC02
Issued as Aggravated Level: NO

Dept. of Buildings Compliance Information

Certification Status: NO COMPLIANCE RECORDED
Compliance On:

A Certificate of Correction must be submitted to the Administrative Enforcement Unit (AEU) for all violations. A violation that is not dismissed by ECB will continue to remain ACTIVE or "open" on DOB records until acceptable proof is submitted to the AEU, even if you have paid the penalty imposed by ECB.

ECB Hearing Information

Hearing Status: WRITTEN OFF

ECB Penalty Information

Penalty Imposed:	$1,000.00
Adjustments:	$-1,000.00
Amount Paid:	$0.00
Penalty Balance Due:	$0.00
Court Docket Date:	04/30/1998

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

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NYC Department of Buildings

Overview for Complaint #:3066282 = RESOLVED

Complaint at: 430-434 VAN BRUNT STREET **BIN:** 3846916 **Borough:** BROOKLYN **ZIP:** 11231

Re: REPAIRING TRUCKS, USE CONTRARY TO C OF O. (SECOND OFFENSE)

Category Code: 32 C OF O - NOT BEING COMPLIED WITH

DOB District: N/A

Assigned To: BROOKLYN BOROUGH OFFICE **Priority:** C

Received: 08/28/1998 **Block:** 603 **Lot:** 23 **Community Board:** 306

Owner:

Last Inspection: 09/10/1998 - - BY BADGE # 1058

Disposition: 09/18/1998 - B1 - BUILDINGS VIOLATION(S) PREPARED & ATTEMPT TO SERVE WILL BE MADE

Comments: VIOLATION PREPARED FOR ILLEGLA STORAGE OF TRUCKS ON VACANT L OT

DOB Violation #: 090198C06HS02

ECB Violation #s: 34183570H

Complaint Disposition History

Disposition Date	Disposition Code	Disposition	Inspection By	Date
09/18/1998	B1	BUILDINGS VIOLATION(S) PREPARED & ATTEMPT TO SERVE WILL BE MADE NO REPAIR AT TIME OF INSPECTION	1058	09/01/1998
09/18/1998	J1	FOLLOW-UP INSPECTION TO BE SCHEDULED UPON FURTHER RESEARCH - NO REPAIR AT TIME OF INSPECTION	1058	09/01/1998
09/18/1998	B1	BUILDINGS VIOLATION(S) PREPARED & ATTEMPT TO SERVE WILL BE MADE VIOLATION PREPARED FOR ILLEGLA STORAGE OF TRUCKS ON VACANT L	1058	09/10/1998

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

APPENDIX 7
CURRENT DEED

NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER

This page is part of the instrument. The City Register will rely on the information provided by you on this page for purposes of indexing this instrument.The information on this page will control for indexing purposes in the event of any conflict with the rest of the document.

2014041701257001001E1B81

RECORDING AND ENDORSEMENT COVER PAGE

Document ID: 2014041701257001 Document Date: 04-17-2014 Preparation Date: 04-17-2014
Document Type: DEED
Document Page Count: 1

PRESENTER:
DAVID H. PERLMAN
186 MONTAGUE STREET
4TH FL
BROOKLYN, NY 11201
718-855-8708
SHARON@DHPERLMANLAW.COM

RETURN TO:
DAVID H. PERLMAN
186 MONTAGUE STREET
4TH FL
BROOKLYN, NY 11201
718-855-8708
SHARON@DHPERLMANLAW.COM

PROPERTY DATA

Borough	Block	Lot	Unit	Address
BROOKLYN	603	23	Entire Lot	N/A VAN BRUNT STREET

Property Type: RESIDENTIAL VACANT LAND

CROSS REFERENCE DATA

CRFN_____ *or* DocumentID_____ *or* _____ Year_____ Reel____ Page_____ *or* File Number_____

PARTIES

GRANTOR/SELLER:
PAT PACE
17 MOORE ROAD
MARLBORO, NY 07746

GRANTEE/BUYER:
MARLBORO BUILDERS, LLC
C/O DAVID H. PERLMAN, ESQ. , 186 MONTAGUE STREET, 4TH FL
BROOKLYN, NY 11201

FEES AND TAXES

Mortgage :		
Mortgage Amount:	$	0.00
Taxable Mortgage Amount:	$	0.00
Exemption:		
TAXES: County (Basic):	$	0.00
City (Additional):	$	0.00
Spec (Additional):	$	0.00
TASF:	$	0.00
MTA:	$	0.00
NYCTA:	$	0.00
Additional MRT:	$	0.00
TOTAL:	$	0.00
Recording Fee:	$	42.00
Affidavit Fee:	$	0.00

Filing Fee:	$	250.00
NYC Real Property Transfer Tax:	$	0.00
NYS Real Estate Transfer Tax:	$	0.00

RECORDED OR FILED IN THE OFFICE OF THE CITY REGISTER OF THE CITY OF NEW YORK
Recorded/Filed 05-12-2014 09:17
City Register File No.(CRFN): **2014000160710**

City Register Official Signature

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT – THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY

THIS INDENTURE, made the 17th day of April, in the year Two Thousand and Fourteen
BETWEEN

PAT PACE residing at 17 Moore Road, Marlboro NJ

party of the first part, and

MARLBORO BUILDERS, LLC c/o DAVID H. PERLMAN, ESQ,
186 Montague Street, 4th Fl, Brooklyn NY 11201

party of the second part,

WITNESSETH, that the party of the first part, in consideration of ten dollars and other valuable consideration paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Borough of Brooklyn, County of Kings, City and State of New York, known and designated on the Tax Map of the City of New York, known and designated in the Tax Map of the City of New York for the Borough of Brooklyn, Section 2 Block 603 Lot 23 as the Tax Map was on 10/20/1965 and Lot 24 as the Tax Map was on July 18th, 1967.

FOR INFORMATIONAL PURPOSES ONLY: 432 Van Brunt Street,
Borough of Brooklyn, County of Kings, State of New York

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.
AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.
The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF:

Pat Pace

* STATE OF NEW YORK)
) ss:
COUNTY OF KINGS)

On the 17 day of April in the year 2014 before me the undersigned, personally appeared Pat Pace, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

DAVID H. PERLMAN
Notary Public, State of New York
No. 02PE6046530
Qualified in Kings County
Commission Expires August 14, 2014

Signature and Office of individual taking acknowledgement

SEAL

* STATE OF NEW YORK)
) SS:
COUNTY OF KINGS)

On the ____day of _____ in the year 2005 before me the undersigned personally appeared _____, personally known to me or proved to me on the basis of satisfactory evidence to be the individuals) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

_____
Signature and Office of individual taking acknowledgement

* For acknowledgement taken in New York State.

** State, District of Columbia, Territory, Possession, or Foreign Country

_____) ss.:

On the _____ day of _____ in the year, _____ before me, the undersigned, personally appeared _____, personally known to me or proved to be on the basis of satisfactory evidence to be the individual(s) whose name(s) (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument, and that such individual made such appearance before the undersigned in the _____. (Insert the city or other political subdivision and the state or country or other place the acknowledgement was taken.)

_____
Signature and Office of
Individual taking acknowledgement

** For acknowledgement taken outside of New York State

BARGAIN and SALE DEED

With Covenant Against Grantor's Acts

TITLE NO.

PAT PACE

TO

MARLBORO BUILDERS, LLC

Section

Block 603

Lot 23

County or Town KINGS

Return by Mail to:

NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER

2014041701257001001SD500

SUPPORTING DOCUMENT COVER PAGE

Document ID: 2014041701257001 Document Date: 04-17-2014 Preparation Date: 04-17-2014
Document Type: DEED

ASSOCIATED TAX FORM ID: 2014041500153

SUPPORTING DOCUMENTS SUBMITTED:

	Page Count
RP - 5217 REAL PROPERTY TRANSFER REPORT	1

FOR CITY USE ONLY

C1. County Code ____ C2. Date Deed Recorded ____ Month Day Year

C3. Book ____ C4. Page ____

OR

C5. CRFN ____

CITY REGISTER

APR 22 2014

REAL PROPERTY TRANSFER REPORT

STATE OF NEW YORK
STATE BOARD OF REAL PROPERTY SERVICES

RP - 5217NYC

PROPERTY INFORMATION

1. Property Location: N/A (STREET NUMBER) | VANBRUNT STREET (STREET NAME) | BROOKLYN (BOROUGH) | 00000 (ZIP CODE)

2. Buyer Name: MARLBORO BUILDERS, LLC (LAST NAME / COMPANY) | (FIRST NAME)
(LAST NAME / COMPANY) | (FIRST NAME)

3. Tax Billing Address: Indicate where future Tax Bills are to be sent if other than buyer address (at bottom of form) (LAST NAME / COMPANY) | (FIRST NAME)
(STREET NUMBER AND STREET NAME) | (CITY OR TOWN) | (STATE) | (ZIP CODE)

4. Indicate the number of Assessment Roll parcels transferred on the deed: 1 # of Parcels OR ☐ Part of a Parcel

4A. Planning Board Approval - N/A for NYC
4B. Agricultural District Notice - N/A for NYC

5. Deed Property Size: ____ (FRONT FEET) X ____ (DEPTH) OR ____ (ACRES)

Check the boxes below as they apply:
6. Ownership Type is Condominium ☐
7. New Construction on Vacant Land ☐

8. Seller Name: PACE (LAST NAME / COMPANY) | PAT (FIRST NAME)
(LAST NAME / COMPANY) | (FIRST NAME)

9. Check the box below which most accurately describes the use of the property at the time of sale:

A ☐ One Family Residential
B ☐ 2 or 3 Family Residential
C ☑ Residential Vacant Land
D ☐ Non-Residential Vacant Land
E ☐ Commercial
F ☐ Apartment
G ☐ Entertainment / Amusement
H ☐ Community Service
I ☐ Industrial
J ☐ Public Service

SALE INFORMATION

10. Sale Contract Date: 4 / 1 / 2014 (Month Day Year)

11. Date of Sale / Transfer: 4 / 17 / 2014 (Month Day Year)

12. Full Sale Price $ 0

(Full Sale Price is the total amount paid for the property including personal property. This payment may be in the form of cash, other property or goods, or the assumption of mortgages or other obligations.) *Please round to the nearest whole dollar amount.*

13. Indicate the value of personal property included in the sale ____

14. Check one or more of these conditions as applicable to transfer:

A ☐ Sale Between Relatives or Former Relatives
B ☑ Sale Between Related Companies or Partners in Business
C ☑ One of the Buyers is also a Seller
D ☐ Buyer or Seller is Government Agency or Lending Institution
E ☐ Deed Type not Warranty or Bargain and Sale (Specify Below)
F ☐ Sale of Fractional or Less than Fee Interest (Specify Below)
G ☐ Significant Change in Property Between Taxable Status and Sale Dates
H ☐ Sale of Business is Included in Sale Price
I ☐ Other Unusual Factors Affecting Sale Price (Specify Below)
J ☐ None

ASSESSMENT INFORMATION - Data should reflect the latest Final Assessment Roll and Tax Bill

16. Building Class: V1

18. Total Assessed Value (of all parcels in transfer): 4230 0

17. Borough, Block and Lot / Roll Identifier(s) (If more than three, attach sheet with additional identifier(s))

BROOKLYN 603 23

20140415001532010 1

CERTIFICATION

I certify that all of the items of information entered on this form are true and correct (to the best of my knowledge and belief) and understand that the making of any willful false statement of material fact herein will subject me to the provisions of the penal law relative to the making and filing of false instruments.

BUYER	BUYER'S ATTORNEY
BUYER SIGNATURE: Pr Pr — DATE: Pr	LAST NAME: Perlman — FIRST NAME: David
STREET NUMBER / STREET NAME (AFTER SALE): C/O DAVID H. PERLMAN, ESQ. 186 MONTAGUE STREET, 4TH FL	AREA CODE: 718 — TELEPHONE NUMBER: 855 8708
CITY OR TOWN: BROOKLYN — STATE: NY — ZIP CODE: 11201	**SELLER** — SELLER SIGNATURE: Pat Sac — DATE: 4-17-14

2014041500153201

AFFIDAVIT OF COMPLIANCE WITH SMOKE DETECTOR REQUIREMENT FOR ONE- AND TWO-FAMILY DWELLINGS

State of New York)
) SS.:
County of Kings)

The undersigned, being duly sworn, depose and say under penalty of perjury that they are the grantor and grantee of the real property or of the cooperative shares in a cooperative corporation owning real property located at

N/A VAN BRUNT STREET
Street Address, Unit/Apt.

BROOKLYN (Borough) New York, 603 (Block) 23 (Lot) (the "Premises");

That the Premises is a one or two family dwelling, or a cooperative apartment or condominium unit in a one- or two-family dwelling, and that installed in the Premises is an approved and operational smoke detecting device in compliance with the provisions of Article 6 of Subchapter 17 of Chapter 1 of Title 27 of the Administrative Code of the City of New York concerning smoke detecting devices;

That they make affidavit in compliance with New York City Administrative Code Section 11-2105 (g). (The signatures of at least one grantor and one grantee are required, and must be notarized).

Pat Pace	Marlboro Builders LLC
Name of Grantor (Type or Print)	Name of Grantee (Type or Print)
Pat Pace	Pat Pace member
Signature of Grantor	Signature of Grantee
Sworn to before me this 17 date of April 20 14	Sworn to before me this ____ date of April 20 14
DAVID H. PERLMAN Notary Public, State of New York No. 02PE6046530 Qualified in Kings County Commission Expires August 14, 2014	DAVID H. PERLMAN Notary Public, State of New York No. 02PE6046530 Qualified in Kings County Commission Expires August 14, 2014

SEAL

These statements are made with the knowledge that a willfully false representation is punishable as a crime of perjury under Article 210 of the Penal Law.

NEW YORK CITY REAL PROPERTY TRANSFER TAX RETURNS FILED ON OR AFTER FEBRUARY 6th, 1990, WITH RESPECT TO THE CONVEYANCE OF A ONE- OR TWO-FAMILY DWELLING, OR A COOPERATIVE APARTMENT OR A CONDOMINIUM UNIT IN A ONE- OR TWO-FAMILY DWELLING, WILL NOT BE ACCEPTED FOR FILING UNLESS ACCOMPANIED BY THIS AFFIDAVIT.

The City of New York
Department of Environmental Protection
Bureau of Customer Services
59-17 Junction Boulevard
Flushing, NY 11373-5108

Customer Registration Form for Water and Sewer Billing

Property and Owner Information:

(1) Property receiving service: BOROUGH: BROOKLYN BLOCK: 603 LOT: 23

(2) Property Address: N/A VAN BRUNT STREET, BROOKLYN, NY 00000

(3) Owner's Name: MARLBORO BUILDERS, LLC

Additional Name:

Affirmation:

☑ Your water & sewer bills will be sent to the property address shown above.

Customer Billing Information:

Please Note:

A. Water and sewer charges are the legal responsibility of the owner of a property receiving water and/or sewer service. The owner's responsibility to pay such charges is not affected by any lease, license or other arrangement, or any assignment of responsibility for payment of such charges. Water and sewer charges constitute a lien on the property until paid. In addition to legal action against the owner, a failure to pay such charges when due may result in foreclosure of the lien by the City of New York, the property being placed in a lien sale by the City or Service Termination.

B. Original bills for water and/or sewer service will be mailed to the owner, **at the property address or to an alternate mailing address.** DEP will provide a duplicate copy of bills to one other party (such as a managing agent), however, any failure or delay by DEP in providing duplicate copies of bills shall in no way relieve the owner from his/her liability to pay all outstanding water and sewer charges. Contact DEP at (718) 595-7000 during business hours or visit www.nyc.gov/dep to provide us with the other party's information.

Owner's Approval:

The undersigned certifies that he/she/it is the owner of the property receiving service referenced above; that he/she/it has read and understands Paragraphs A & B under the section captioned "Customer Billing Information"; and that the information supplied by the undersigned on this form is true and complete to the best of his/her/its knowledge.

Print Name of Owner

Signature: _____ Date (mm/dd/yyyy) 04/17/2014

Name and Title of Person Signing for Owner, if applicable:

BCS-7CRF-ACRIS REV. 8/08

2014041500153101

NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER

This page is part of the instrument. The City Register will rely on the information provided by you on this page for purposes of indexing this instrument.The information on this page will control for indexing purposes in the event of any conflict with the rest of the document.

2013101400753001002E95E6

RECORDING AND ENDORSEMENT COVER PAGE

Document ID: 2013101400753001 Document Date: 10-22-2013 Preparation Date: 12-03-2013
Document Type: DEED
Document Page Count: 1

PRESENTER:
DAVID H. PERLMAN
186 MONTAGUE STREET
4TH FL
BROOKLYN, NY 11201
718-855-8708
SHARON@DHPERLMANLAW.COM

RETURN TO:
DAVID H. PERLMAN
186 MONTAGUE STREET
4TH FL
BROOKLYN, NY 11201
718-855-8708
SHARON@DHPERLMANLAW.COM

PROPERTY DATA

Borough	Block	Lot	Unit	Address
BROOKLYN	603	24	Entire Lot	432 VAN BRUNT STREET

Property Type: RESIDENTIAL VACANT LAND

CROSS REFERENCE DATA

CRFN_____ *or* DocumentID_____ *or* _____ Year_____ Reel____ Page_____ *or* File Number_____

PARTIES

GRANTOR/SELLER:
PAT PACE
17 MOORE ROAD
MARLBORO, NJ 07746

GRANTEE/BUYER:
MARLBORO BUILDERS, LLC
C/O DAVID H. PERLMAN, ESQ., 186 MONTAGUE STREET, 4TH FL
BROOKLYN, NY 11201

FEES AND TAXES

Mortgage :		
Mortgage Amount:	$	0.00
Taxable Mortgage Amount:	$	0.00
Exemption:		
TAXES: County (Basic):	$	0.00
City (Additional):	$	0.00
Spec (Additional):	$	0.00
TASF:	$	0.00
MTA:	$	0.00
NYCTA:	$	0.00
Additional MRT:	$	0.00
TOTAL:	$	0.00
Recording Fee:	$	42.00
Affidavit Fee:	$	0.00

Filing Fee:	$	250.00
NYC Real Property Transfer Tax:	$	0.00
NYS Real Estate Transfer Tax:	$	0.00

RECORDED OR FILED IN THE OFFICE OF THE CITY REGISTER OF THE CITY OF NEW YORK

Recorded/Filed 12-13-2013 09:05
City Register File No.(CRFN): **2013000512320**

City Register Official Signature

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT – THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY

THIS INDENTURE, made the 22 day of October , in the year Two Thousand and Thirteen
BETWEEN

PAT PACE residing at 17 Moore Road, Marlboro NJ

party of the first part, and

MARLBORO BUILDERS, LLC c/o DAVID H. PERLMAN, ESQ,
186 Montague Street, 4th Floor, Brooklyn New York 11201

party of the second part,

WITNESSETH, that the party of the first part, in consideration of ten dollars and other valuable consideration paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the

SEE SCHEDULE "A" ATTACHED

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.
AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.
The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF:

Pat Pace

PAT PACE

* STATE OF NEW YORK)
) ss:
COUNTY OF KINGS)

On the 22 day of October in the year 2013 before me the undersigned, personally appeared PAT PACE, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

DAVID H. PERLMAN
Notary Public, State of New York
No. 02PE6046530
Qualified in Kings County
Commission Expires August 14, 2016

Signature and Office of individual taking acknowledgement

SEAL

* STATE OF NEW YORK)
) SS:
COUNTY OF KINGS)

On the ____day of _____ in the year 2005 before me the undersigned personally appeared _____, personally known to me or proved to me on the basis of satisfactory evidence to be the individuals) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Signature and Office of individual taking acknowledgement

* For acknowledgement taken in New York State.

** State, District of Columbia, Territory, Possession, or Foreign Country

_____) ss.:

On the _____ day of _____ in the year, _____ before me, the undersigned, personally appeared _____, personally known to me or proved to be on the basis of satisfactory evidence to be the individual(s) whose name(s) (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument, and that such individual made such appearance before the undersigned in the _____. (Insert the city or other political subdivision and the state or country or other place the acknowledgement was taken.)

Signature and Office of
Individual taking acknowledgement

** For acknowledgement taken outside of New York State

BARGAIN and SALE DEED

With Covenant Against Grantor's Acts

TITLE NO.

PAT PACE

TO

MARLBORO BUILDERS, LLC

Section

Block 603

Lot 23 and 24

County or Town KINGS

Return by Mail to:

Schedule A Description

Title Number:

BLOCK 603 LOTS 23 AND 24 ON THE TAX MAP OF KINGS COUNTY

ALL that certain plot, piece or parcel of land situate lying and being in the Borough of Brooklyn, County of Kings, City and State of New York, known and designated on the Tax Map of The City of New York, known and designated in the Tax Map of the City of New York for the Borough of Brooklyn, Section 2 Block 603 Lot 23 as the Tax Map was on 10/20/1965 and Lot 24 as the Tax Map was on 7/18/1967.

FOR INFORMATIONAL PURPOSES ONLY: 432 Van Brunt Street
Borough of Brooklyn, County of Kings, State of New York

NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER

2013101400753001002S5B67

SUPPORTING DOCUMENT COVER PAGE

Document ID: 2013101400753001 Document Date: 10-22-2013 Preparation Date: 12-03-2013
Document Type: DEED

ASSOCIATED TAX FORM ID: 2013092700380

SUPPORTING DOCUMENTS SUBMITTED:

	Page Count
RP - 5217 REAL PROPERTY TRANSFER REPORT	1

CITY REGISTER

FOR CITY USE ONLY
C1. County Code
C2. Date Deed Recorded DEC 03 2013 Year
C3. Book
OR
C4. Page
C5. CRFN

REAL PROPERTY TRANSFER REPORT

STATE OF NEW YORK
STATE BOARD OF REAL PROPERTY SERVICES

RP - 5217NYC

PROPERTY INFORMATION

1. Property Location: 432 (STREET NUMBER) VAN BRUNT STREET (STREET NAME) BROOKLYN (BOROUGH) 11231 (ZIP CODE)

2. Buyer Name: MARLBORO BUILDERS, LLC (LAST NAME / COMPANY) (FIRST NAME)
(LAST NAME / COMPANY) (FIRST NAME)

3. Tax Billing Address: Indicate where future Tax Bills are to be sent if other than buyer address (at bottom of form)
(LAST NAME / COMPANY) (FIRST NAME)
(STREET NUMBER AND STREET NAME) (CITY OR TOWN) (STATE) (ZIP CODE)

4. Indicate the number of Assessment Roll parcels transferred on the deed: 1 # of Parcels OR ☐ Part of a Parcel

4A. Planning Board Approval - N/A for NYC
4B. Agricultural District Notice - N/A for NYC

Check the boxes below as they apply:
6. Ownership Type is Condominium ☐
7. New Construction on Vacant Land ☐

5. Deed Property Size: (FRONT FEET) X (DEPTH) OR (ACRES)

8. Seller Name: PACE (LAST NAME / COMPANY) PAT (FIRST NAME)
(LAST NAME / COMPANY) (FIRST NAME)

9. Check the box below which most accurately describes the use of the property at the time of sale:

A ☐ One Family Residential
B ☐ 2 or 3 Family Residential
C ☑ Residential Vacant Land
D ☐ Non-Residential Vacant Land
E ☐ Commercial
F ☐ Apartment
G ☐ Entertainment / Amusement
H ☐ Community Service
I ☐ Industrial
J ☐ Public Service

SALE INFORMATION

10. Sale Contract Date: 9 / 30 / 2013 (Month Day Year)

11. Date of Sale / Transfer: 10 / 22 / 2013 (Month Day Year)

12. Full Sale Price $ 0

(Full Sale Price is the total amount paid for the property including personal property. This payment may be in the form of cash, other property or goods, or the assumption of mortgages or other obligations.) *Please round to the nearest whole dollar amount.*

13. Indicate the value of personal property included in the sale

14. Check one or more of these conditions as applicable to transfer:

A ☐ Sale Between Relatives or Former Relatives
B ☐ Sale Between Related Companies or Partners in Business
C ☐ One of the Buyers is also a Seller
D ☐ Buyer or Seller is Government Agency or Lending Institution
E ☐ Deed Type not Warranty or Bargain and Sale (Specify Below)
F ☐ Sale of Fractional or Less than Fee Interest (Specify Below)
G ☐ Significant Change in Property Between Taxable Status and Sale Dates
H ☐ Sale of Business is Included in Sale Price
I ☐ Other Unusual Factors Affecting Sale Price (Specify Below)
J ☑ None

ASSESSMENT INFORMATION - Date should reflect the latest Final Assessment Roll and Tax Bill

15. Building Class: V 1

16. Total Assessed Value (of all parcels in transfer): 6 7 0 5 0

17. Borough, Block and Lot / Roll Identifier(s) (If more than three, attach sheet with additional identifier(s))

BROOKLYN 603 24

20130927003802010 2

CERTIFICATION

I certify that all of the items of information entered on this form are true and correct (to the best of my knowledge and belief) and understand that the making of any willful false statement of material fact herein will subject me to the provisions of the penal law relative to the making and filing of false instruments.

BUYER	BUYER'S ATTORNEY
Pat Pace	Perlman, David
BUYER SIGNATURE / DATE	LAST NAME / FIRST NAME
C/O DAVID H. PERLMAN, ESQ. 186 MONTAGUE STREET, 4TH FL	718 / 855-8708
STREET NUMBER / STREET NAME (AFTER SALE)	AREA CODE / TELEPHONE NUMBER
BROOKLYN / NY / 11201	SELLER
CITY OR TOWN / STATE / ZIP CODE	Pat Pace / 10/22/13
	SELLER SIGNATURE / DATE

2013092700380201

The City of New York
Department of Environmental Protection
Bureau of Customer Services
59-17 Junction Boulevard
Flushing, NY 11373-5108

www.nyc.gov/dep

Customer Registration Form for Water and Sewer Billing

Property and Owner Information:

(1) Property receiving service: BOROUGH: BROOKLYN BLOCK: 603 LOT: 24

(2) Property Address: 432 VAN BRUNT STREET, BROOKLYN, NY 11231

(3) Owner's Name: MARLBORO BUILDERS, LLC

Additional Name:

Affirmation:

☑ Your water & sewer bills will be sent to the property address shown above.

Customer Billing Information:

Please Note:

A. Water and sewer charges are the legal responsibility of the owner of a property receiving water and/or sewer service. The owner's responsibility to pay such charges is not affected by any lease, license or other arrangement, or any assignment of responsibility for payment of such charges. Water and sewer charges constitute a lien on the property until paid. In addition to legal action against the owner, a failure to pay such charges when due may result in foreclosure of the lien by the City of New York, the property being placed in a lien sale by the City or Service Termination.

B. Original bills for water and/or sewer service will be mailed to the owner, **at the property address or to an alternate mailing address.** DEP will provide a duplicate copy of bills to one other party (such as a managing agent), however, any failure or delay by DEP in providing duplicate copies of bills shall in no way relieve the owner from his/her liability to pay all outstanding water and sewer charges. Contact DEP at (718) 595-7000 during business hours or visit www.nyc.gov/dep to provide us with the other party's information.

Owner's Approval:

The undersigned certifies that he/she/it is the owner of the property receiving service referenced above; that he/she/it has read and understands Paragraphs A & B under the section captioned "Customer Billing Information"; and that the information supplied by the undersigned on this form is true and complete to the best of his/her/its knowledge.

Print Name of Owner:

Signature: _____ Date (mm/dd/yyyy)

Name and Title of Person Signing for Owner, if applicable:

BCS-7CRF-ACRIS REV. 8/08

2013092700380101

APPENDIX 8
AERIAL PHOTOGRAPHS

430-432 Van Brunt Street
430-432 VAN BRUNT ST
Brooklyn, NY 11231

Inquiry Number: 4017064.9
July 25, 2014

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

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with any questions or comments.

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Date EDR Searched Historical Sources:
Aerial Photography July 25, 2014

Target Property:
430-432 VAN BRUNT ST
Brooklyn, NY 11231

Year	*Scale*	*Details*	*Source*
1924	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: July 01, 1924	EDR
1940	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: January 01, 1940	EDR
1943	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: January 01, 1943	EDR
1954	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: February 27, 1954	EDR
1966	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: February 23, 1966	EDR
1975	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: April 01, 1975	EDR
1978	Aerial Photograph. Scale: 1"=1000'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: October 01, 1978	EDR
1984	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: April 27, 1984	EDR
1995	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/DOQQ - acquisition dates: March 13, 1995	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Year: 2006	EDR
2008	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Year: 2008	EDR
2009	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Year: 2009	EDR
2011	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Year: 2011	EDR

INQUIRY #: 4017064.9

YEAR: 1924

= 500'

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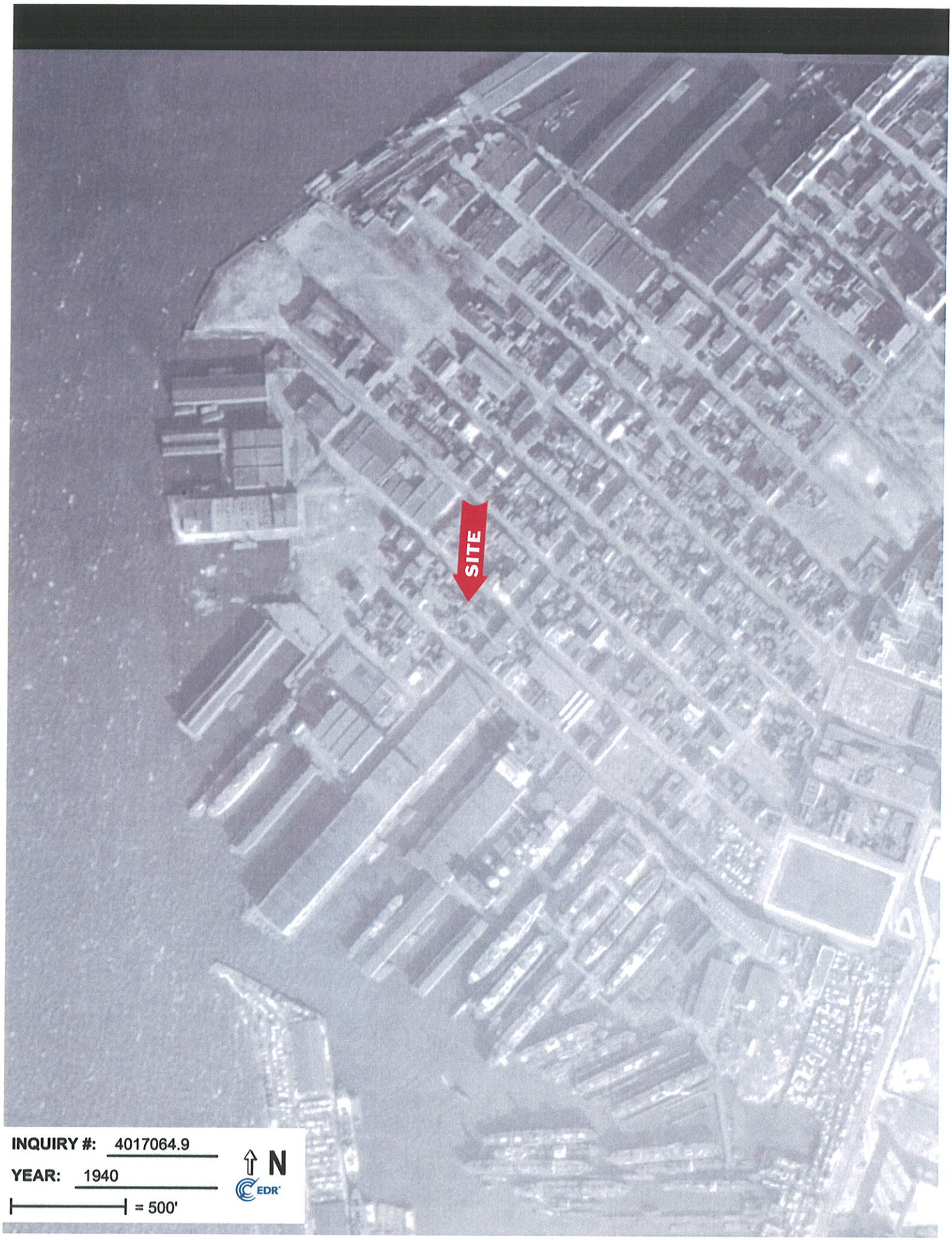
SITE
INQUIRY #: 4017064.9
YEAR: 1940
= 500'
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EDR

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INQUIRY #: 4017064.9

YEAR: 1954

= 500'

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YEAR: 1975

= 500'

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YEAR: 1978

= 1000'

N

EDR

INQUIRY #: 4017064.9

YEAR: 1984

= 500'

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EDR

SITE
INQUIRY #: 4017064.9
YEAR: 1995
= 500'
N
EDR

SITE
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YEAR: 2006
= 500'
N
EDR

SITE
INQUIRY #: 4017064.9
YEAR: 2008
= 500'
N
EDR

SITE
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YEAR: 2009
= 500'
N
EDR

SITE
INQUIRY #: 4017064.9
YEAR: 2011
= 500'
N
EDR

APPENDIX 9
SANBORN MAPS

430-432 Van Brunt Street
430-432 VAN BRUNT ST
Brooklyn, NY 11231

Inquiry Number: 4017064.3
July 25, 2014

Certified Sanborn® Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

7/25/14

Site Name:
430-432 Van Brunt Street
430-432 VAN BRUNT ST
Brooklyn, NY 11231

Client Name:
PT Consultants, Inc.
629 Creek Road
Bellmawr, NJ 08031

EDR Inquiry # 4017064.3

Contact: Denis Cummings

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by PT Consultants, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

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Certified Sanborn Results:

Site Name: 430-432 Van Brunt Street
Address: 430-432 VAN BRUNT ST
City, State, Zip: Brooklyn, NY 11231
Cross Street:
P.O. # 99999-99
Project: 430-432 Van Brunt Street
Certification # D82B-44DD-AE86

Sanborn® Library search results
Certification # D82B-44DD-AE86

Maps Provided:

2007	2001	1988	1979	1922
2006	1996	1987	1977	1921
2005	1995	1986	1969	1915
2004	1993	1982	1950	1904
2003	1992	1981	1938	1886
2002	1991	1980	1928	

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

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Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2007 Source Sheets

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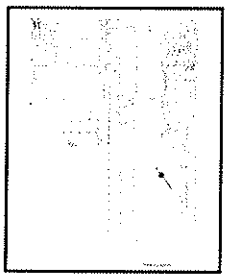

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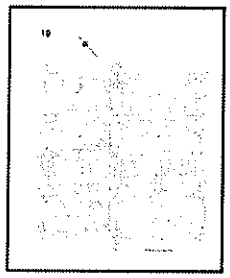

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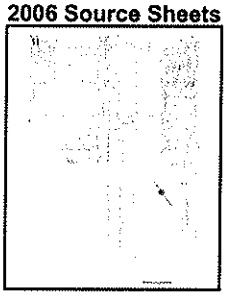

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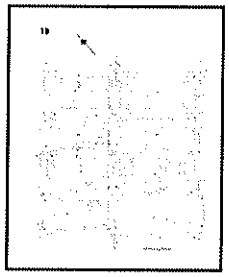

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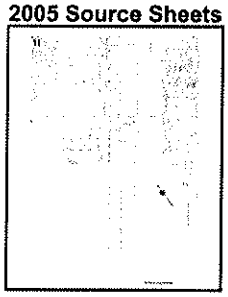

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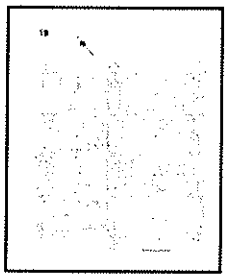

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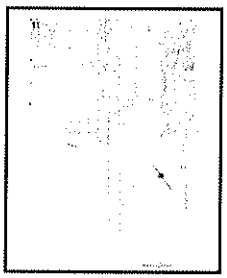

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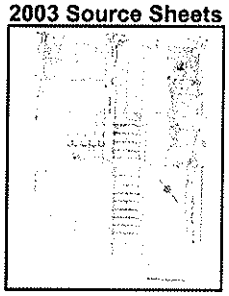

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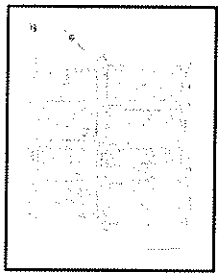

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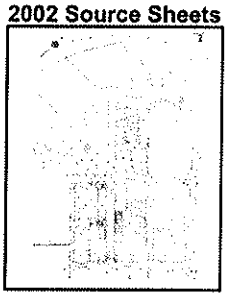

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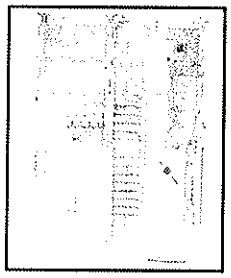

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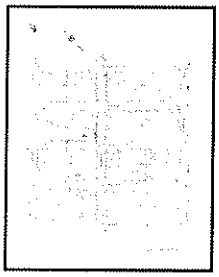

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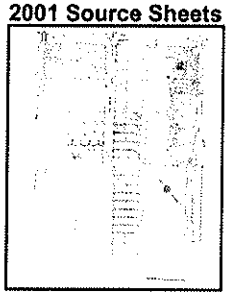

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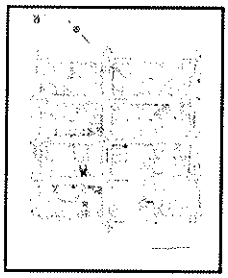

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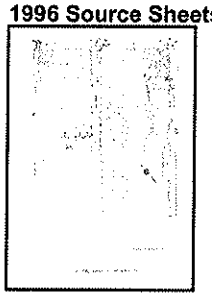

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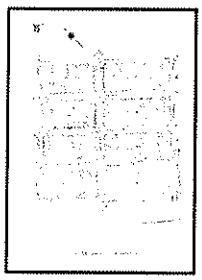

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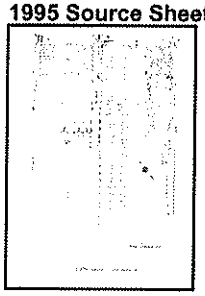

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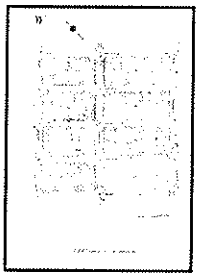

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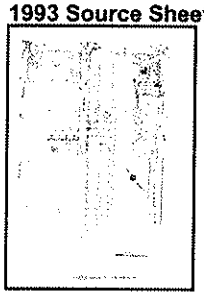

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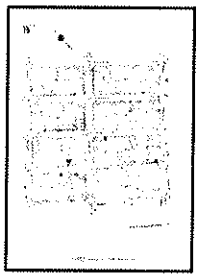

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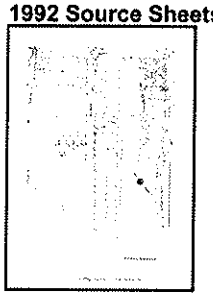

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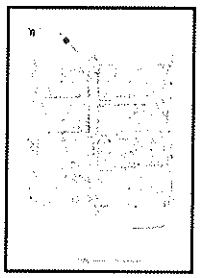

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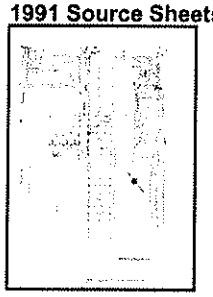

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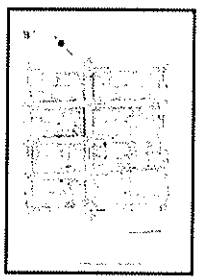

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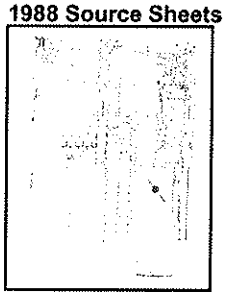

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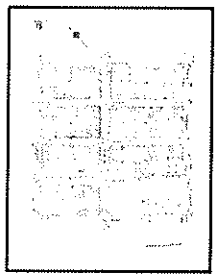

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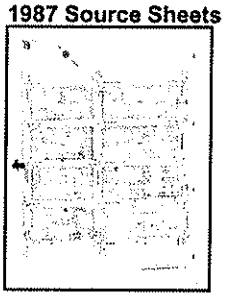

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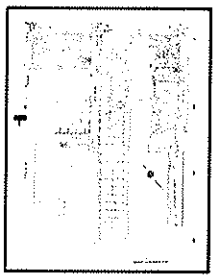

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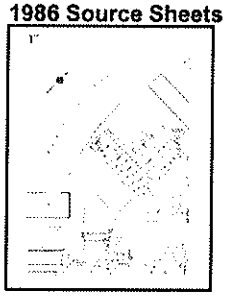

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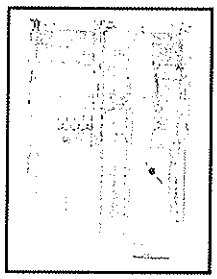

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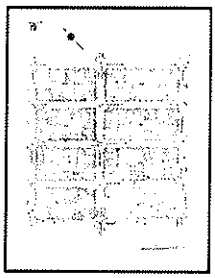

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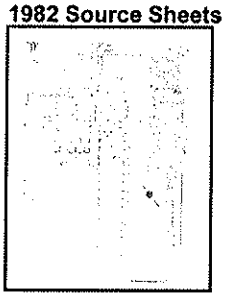

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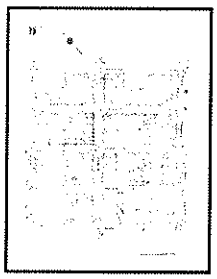

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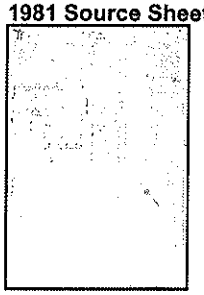

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Volume 1, Sheet 19

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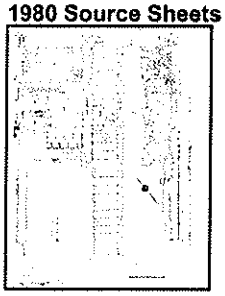

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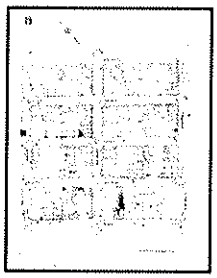
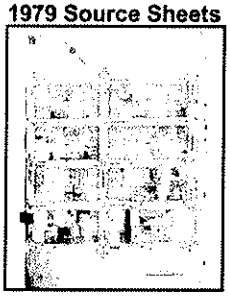


Volume 1, Sheet 19

1979 Source Sheets



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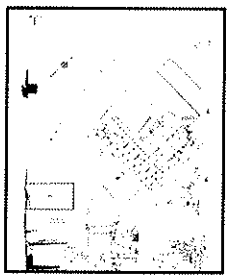
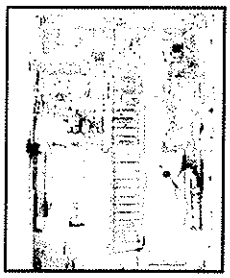


Volume 1, Sheet 1



Volume 1, Sheet 11

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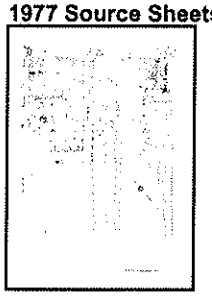

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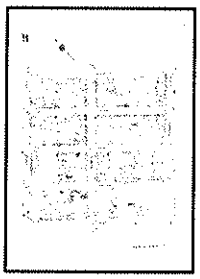
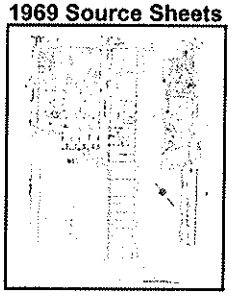


Volume 1, Sheet 19

Volume 1, Sheet 2

1969 Source Sheets



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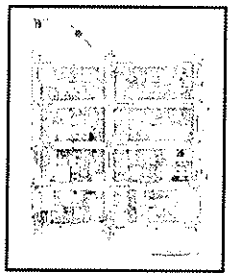

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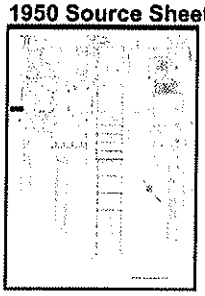

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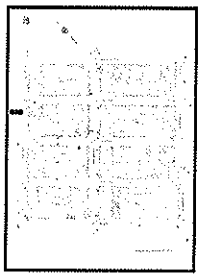

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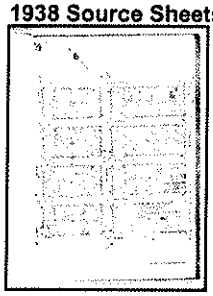

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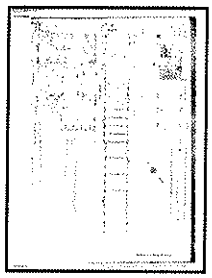
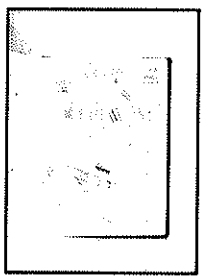


Volume 1, Sheet 11

1928 Source Sheets

Volume Pier Maps, Sheet 47



Volume Pier Maps, Sheet 48

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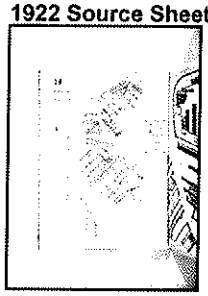

Volume Pier Maps, Sheet 39

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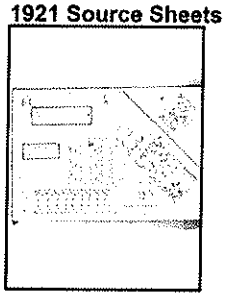

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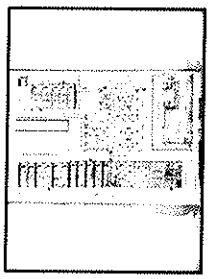

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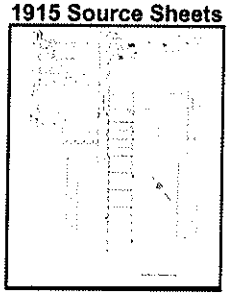

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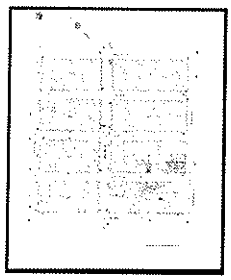

Volume 1, Sheet 19

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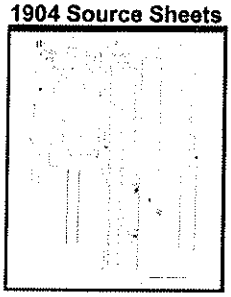
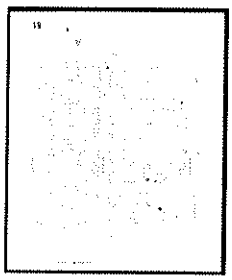
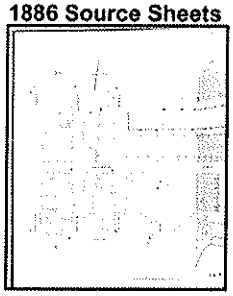


Volume 1, Sheet 11



Volume 1, Sheet 19

1886 Source Sheets



Volume 1, Sheet 6

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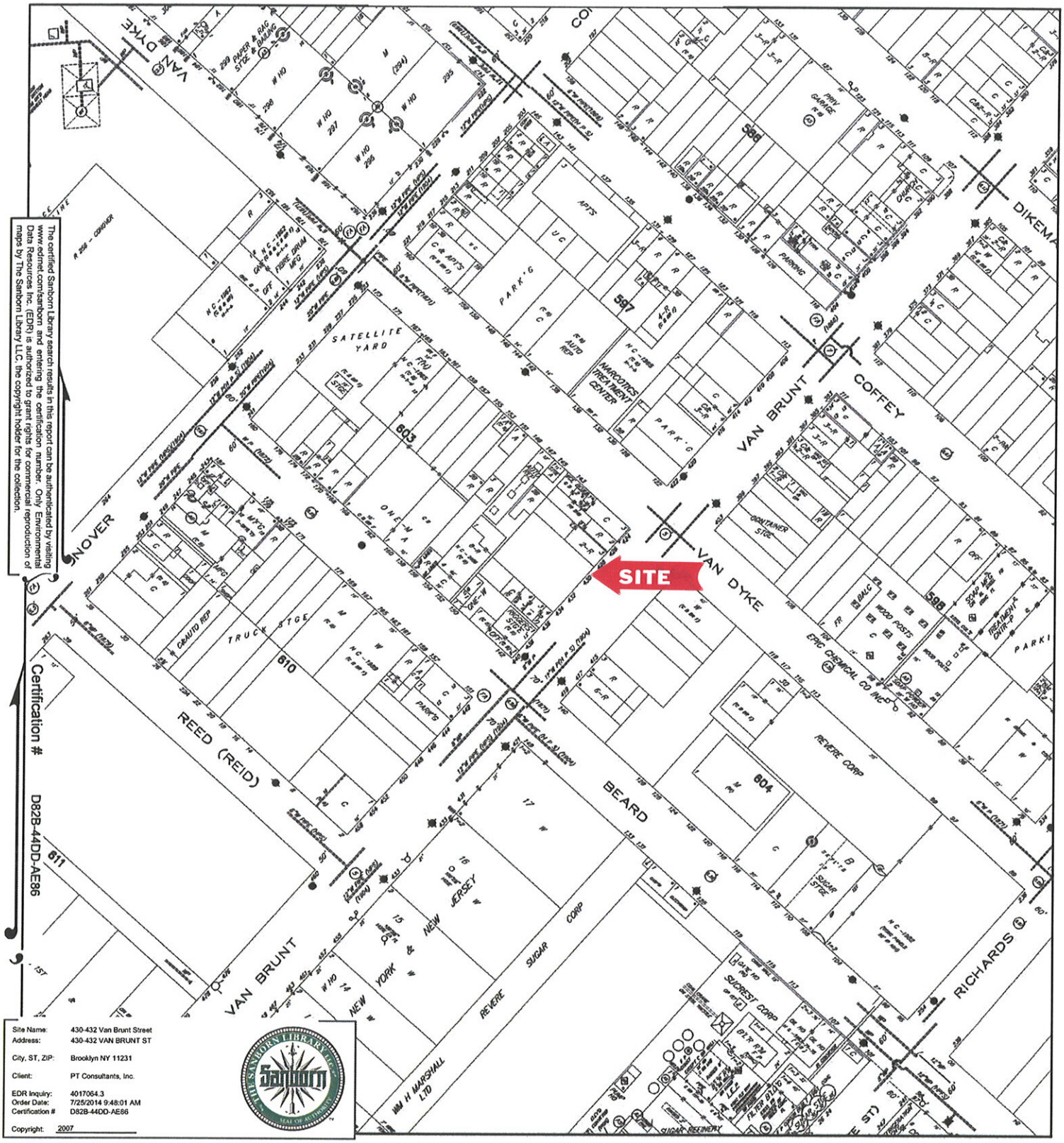

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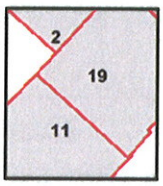

Volume 1, Sheet 2
Volume 1, Sheet 11
Volume 1, Sheet 19

0 Feet 150 300 600

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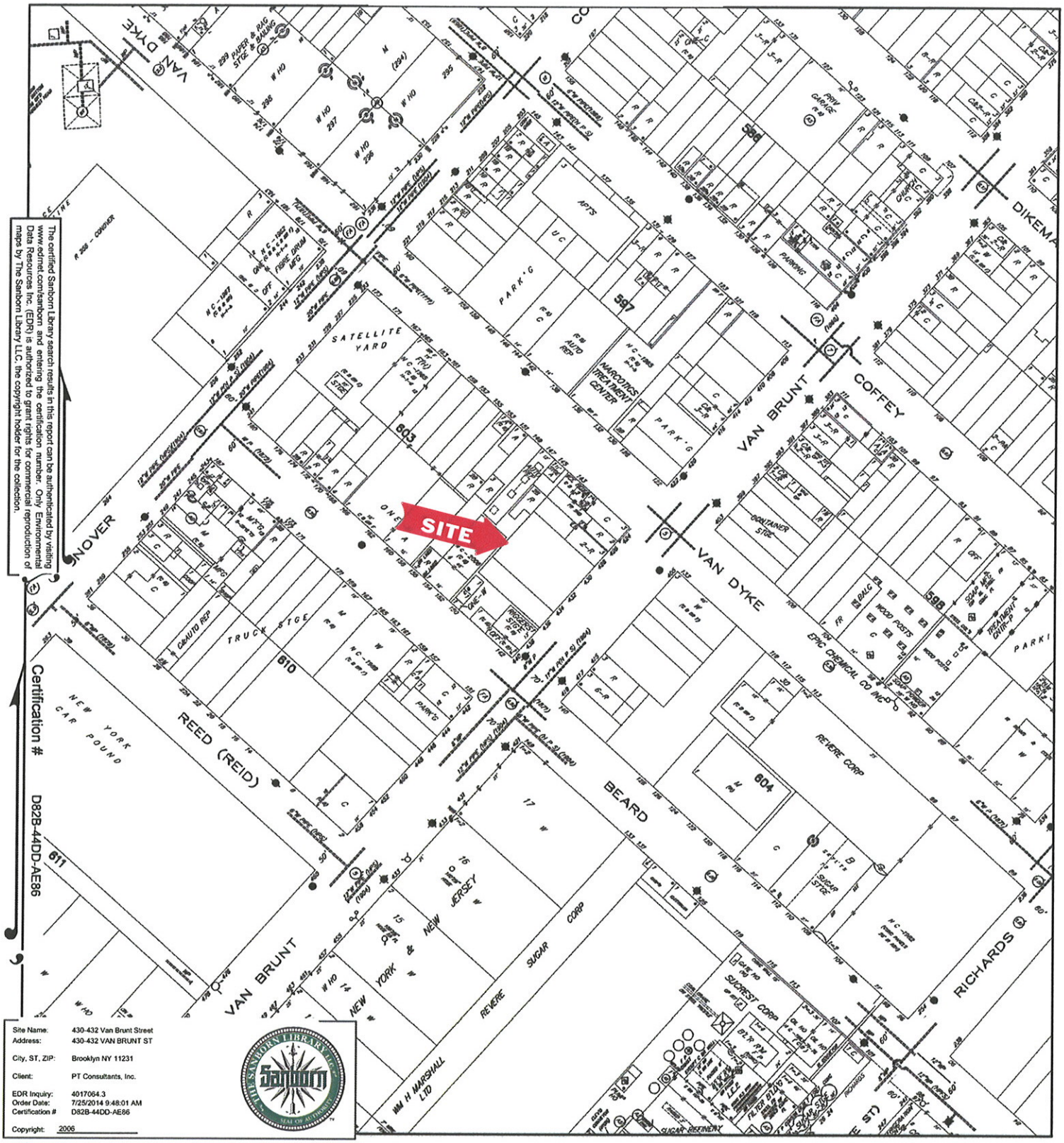

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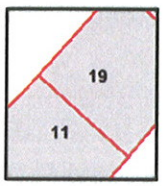

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Volume 1, Sheet 19

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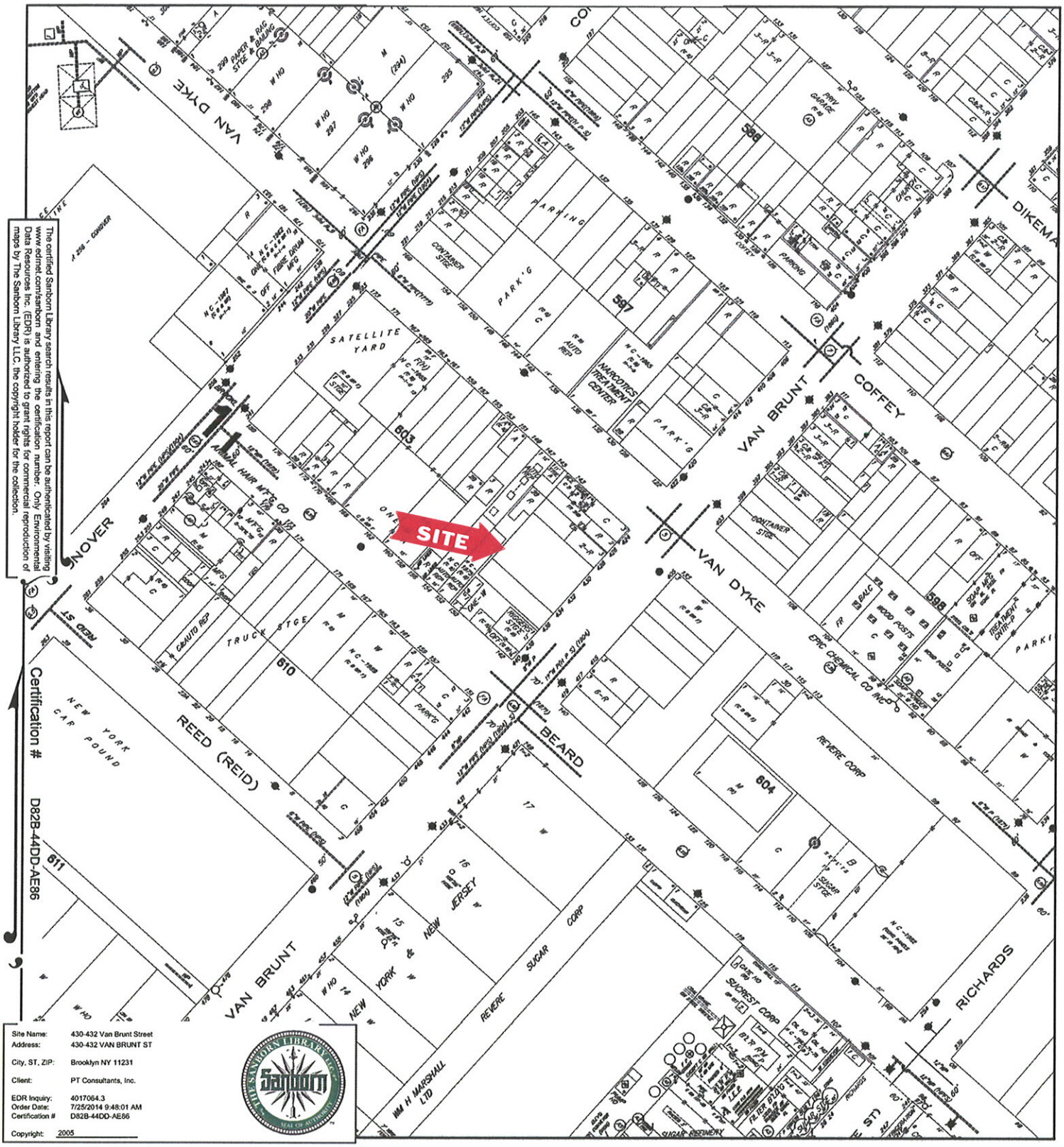

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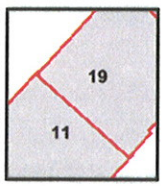

Volume 1, Sheet 11
Volume 1, Sheet 19

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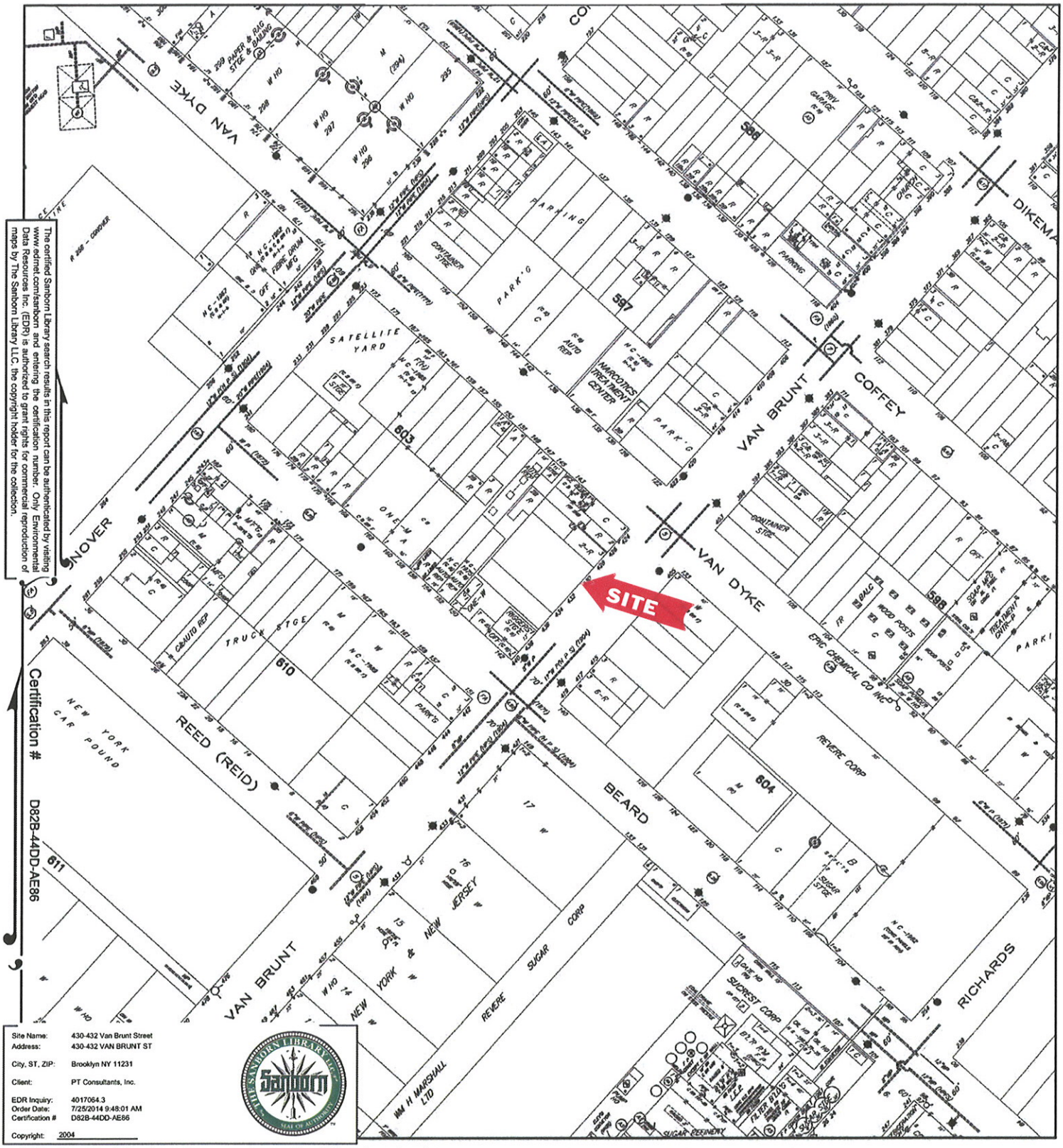

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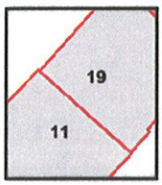

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Volume 1, Sheet 11

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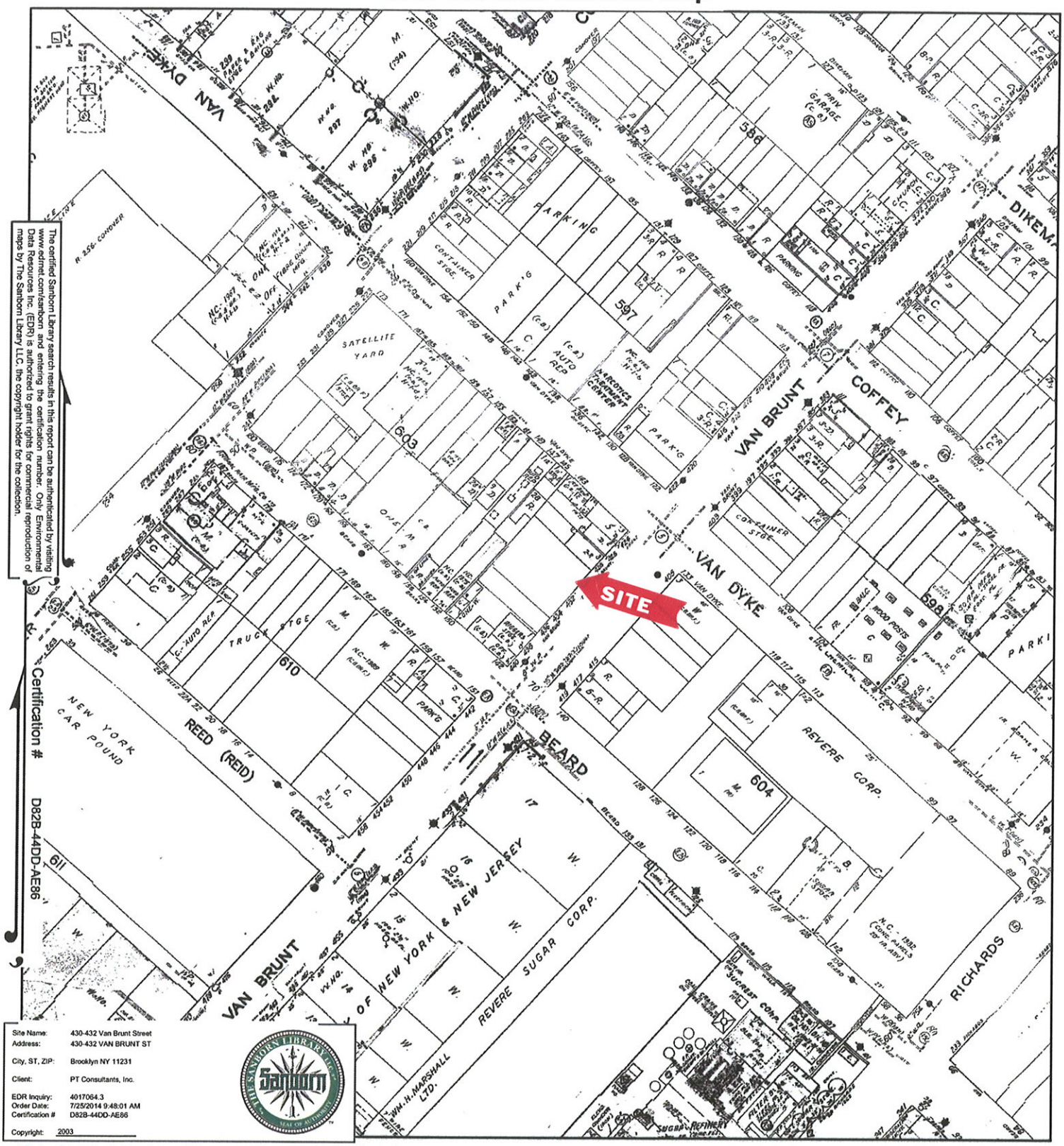

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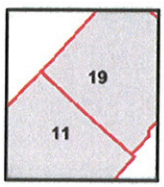

Volume 1, Sheet 11
Volume 1, Sheet 19

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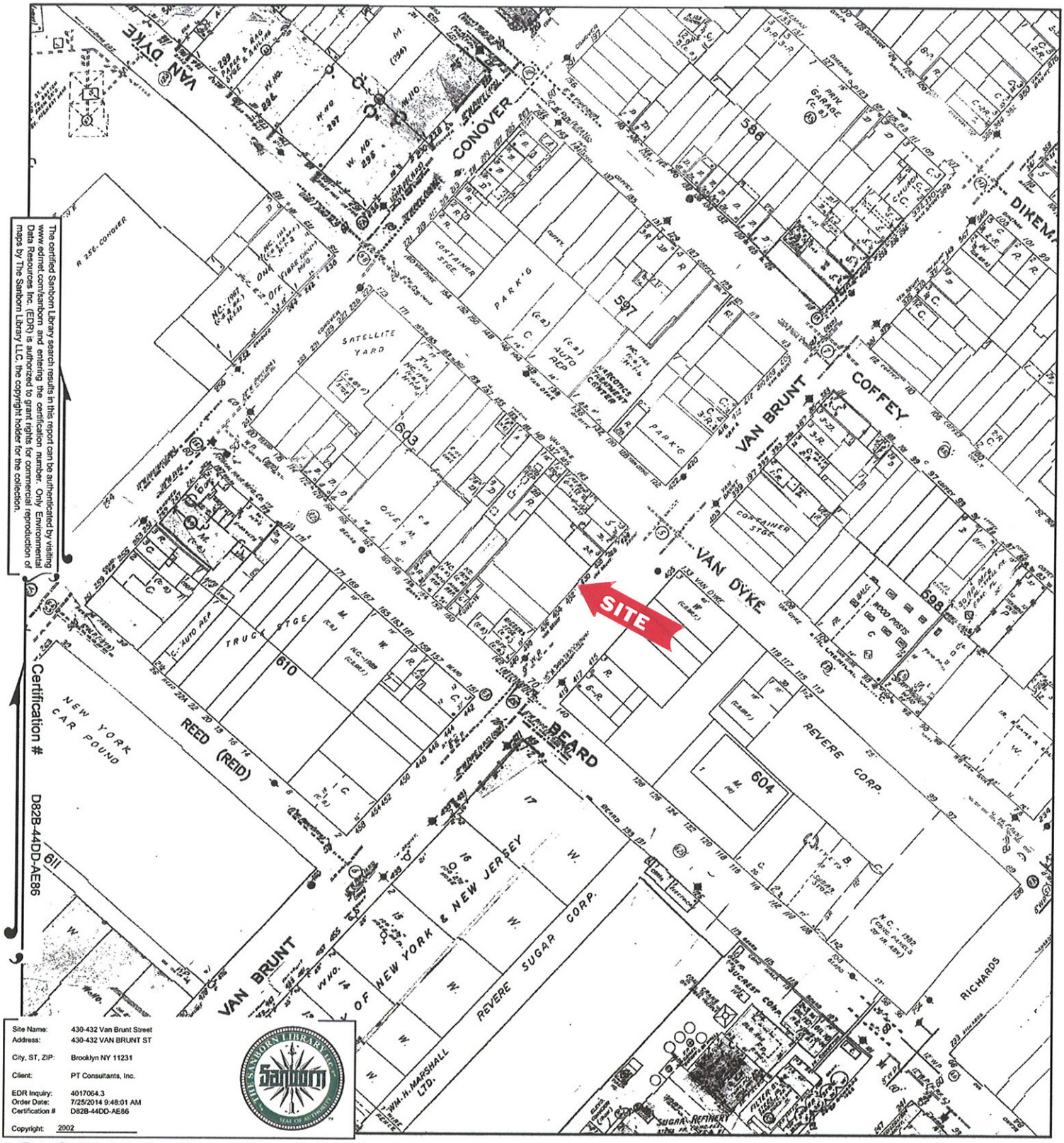

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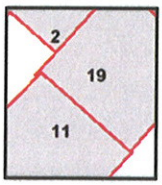

Volume 1, Sheet 2
Volume 1, Sheet 11
Volume 1, Sheet 19

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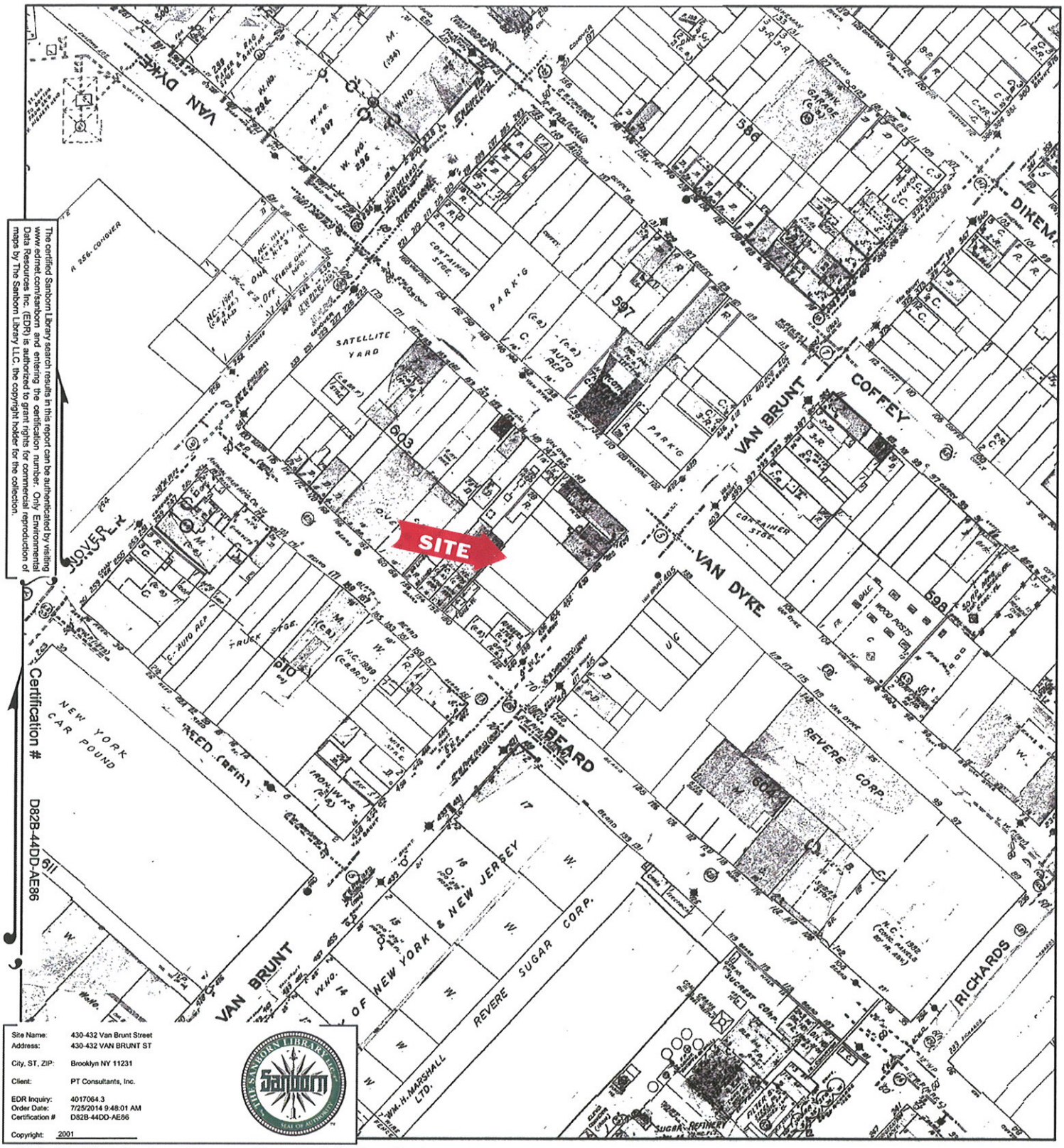

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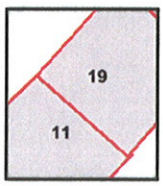

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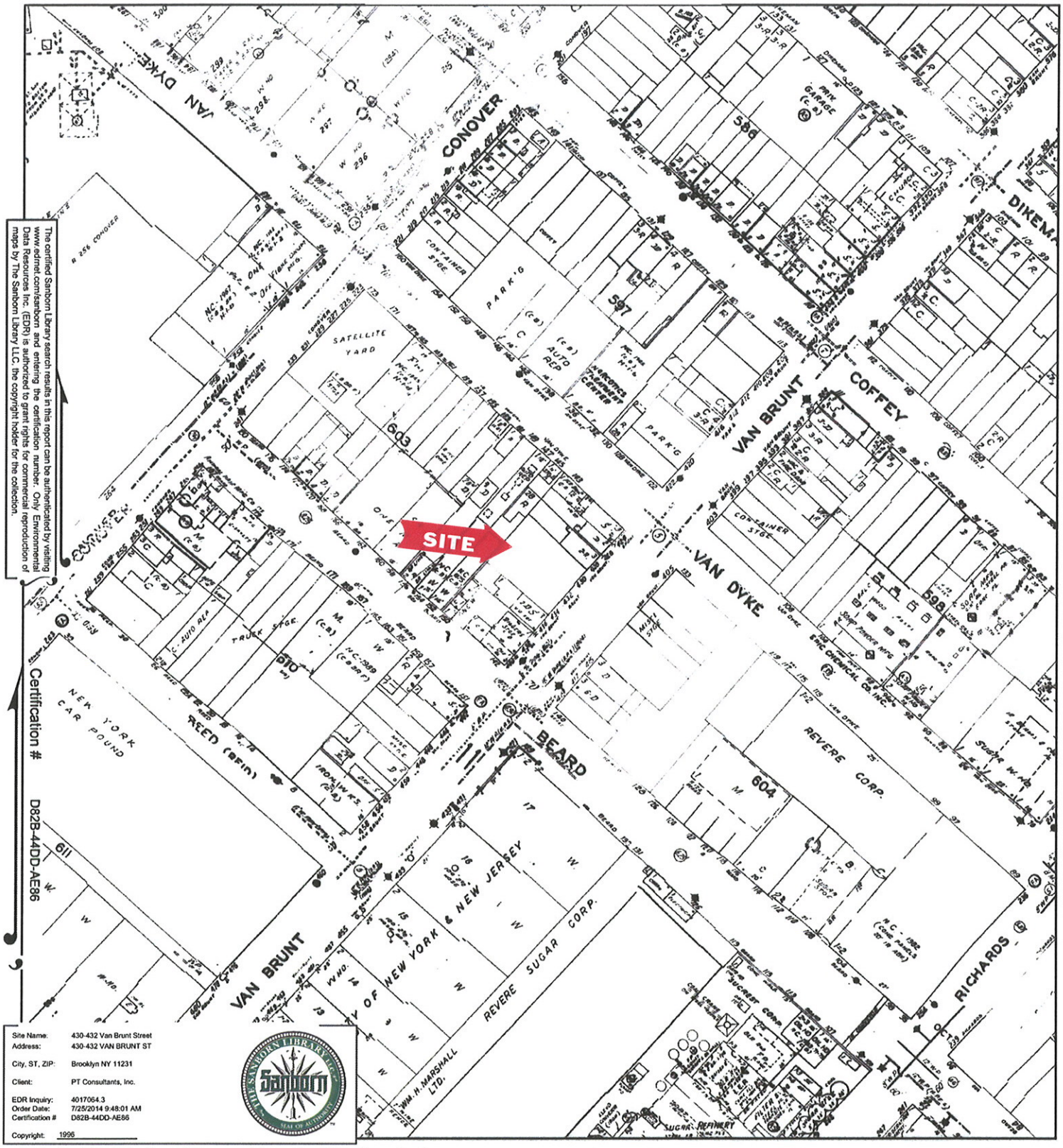

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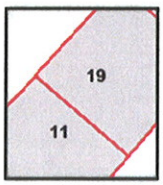

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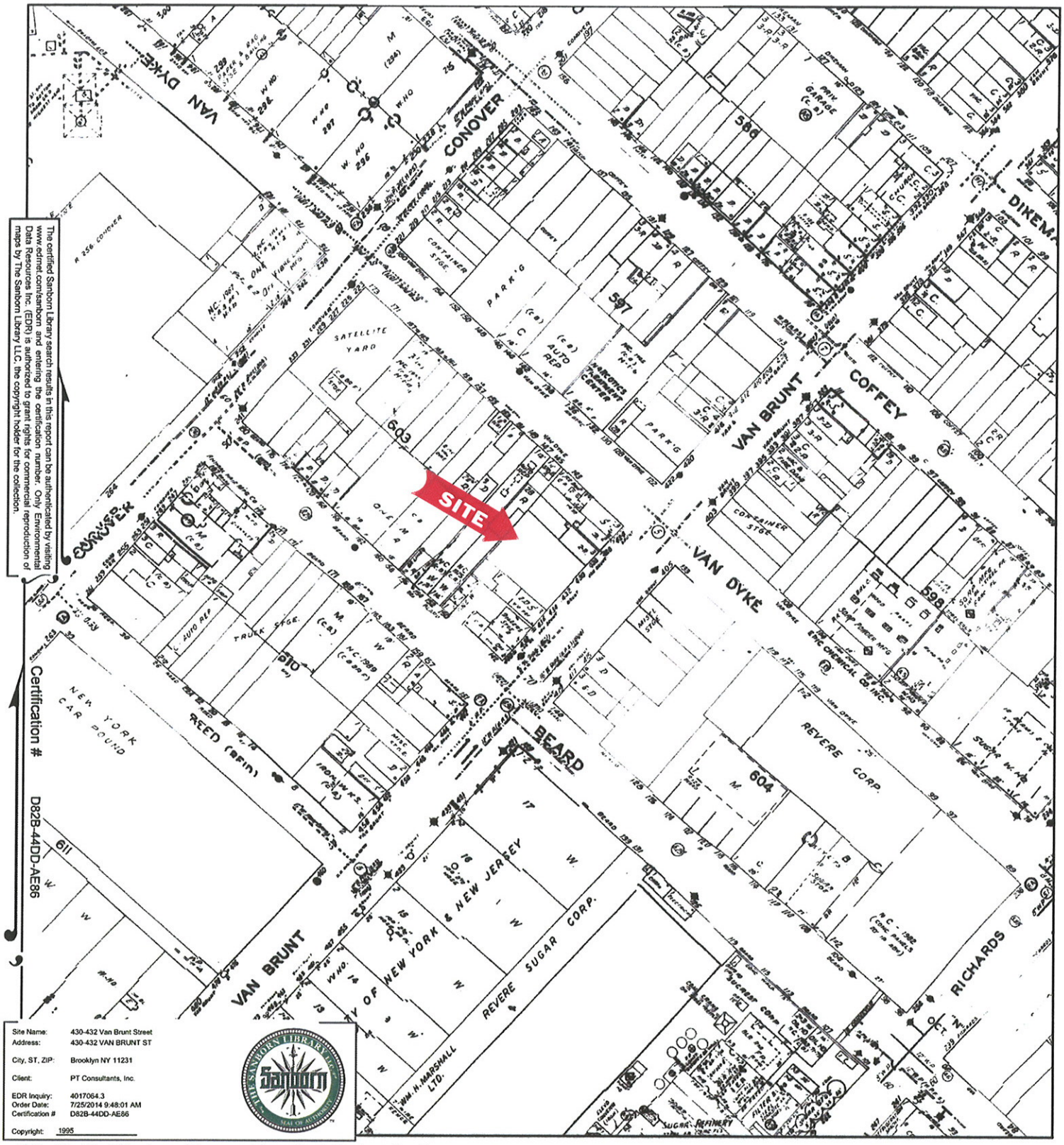

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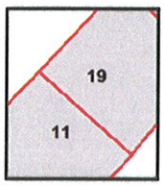

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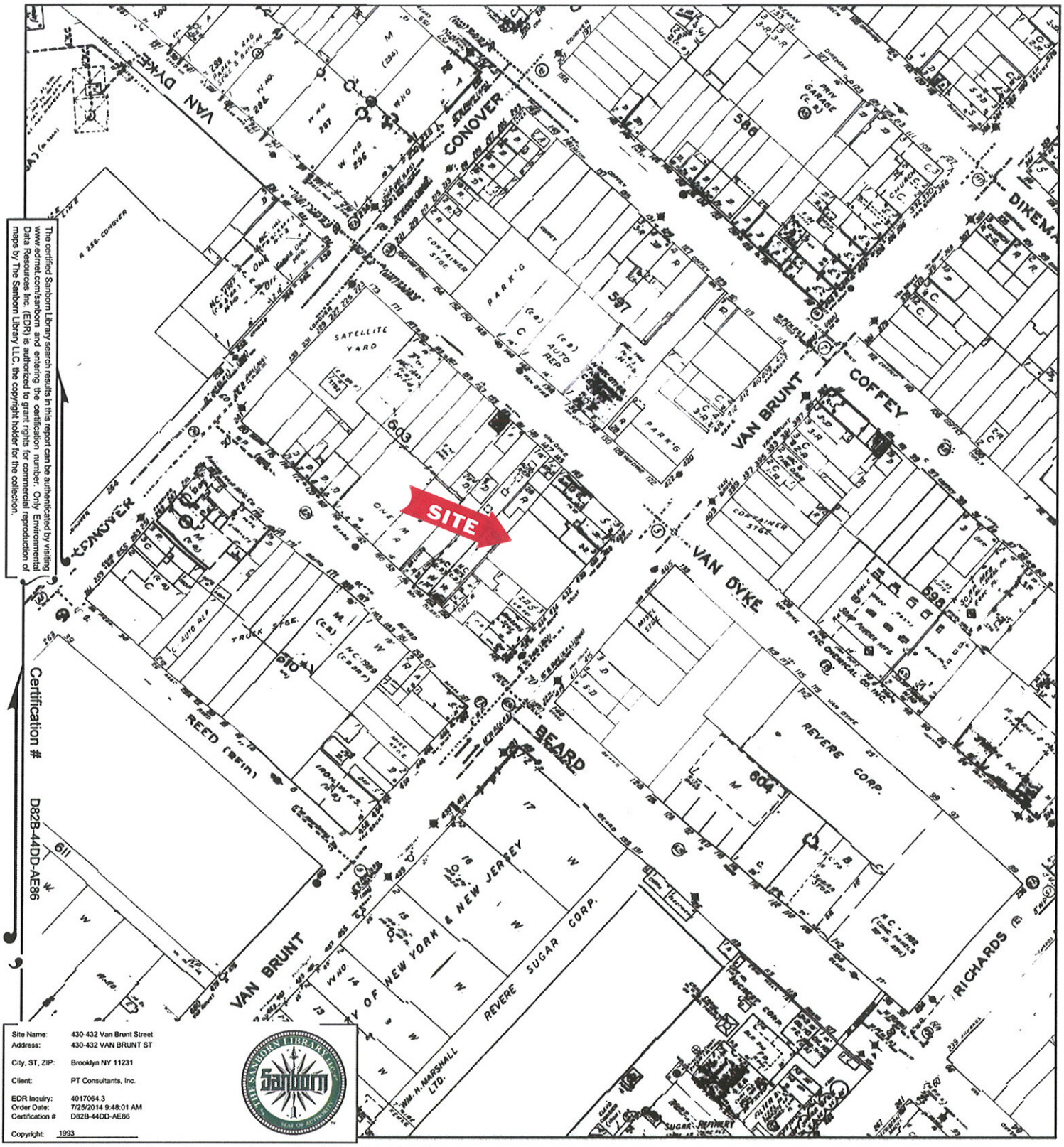

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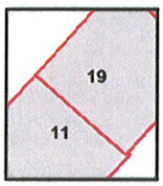

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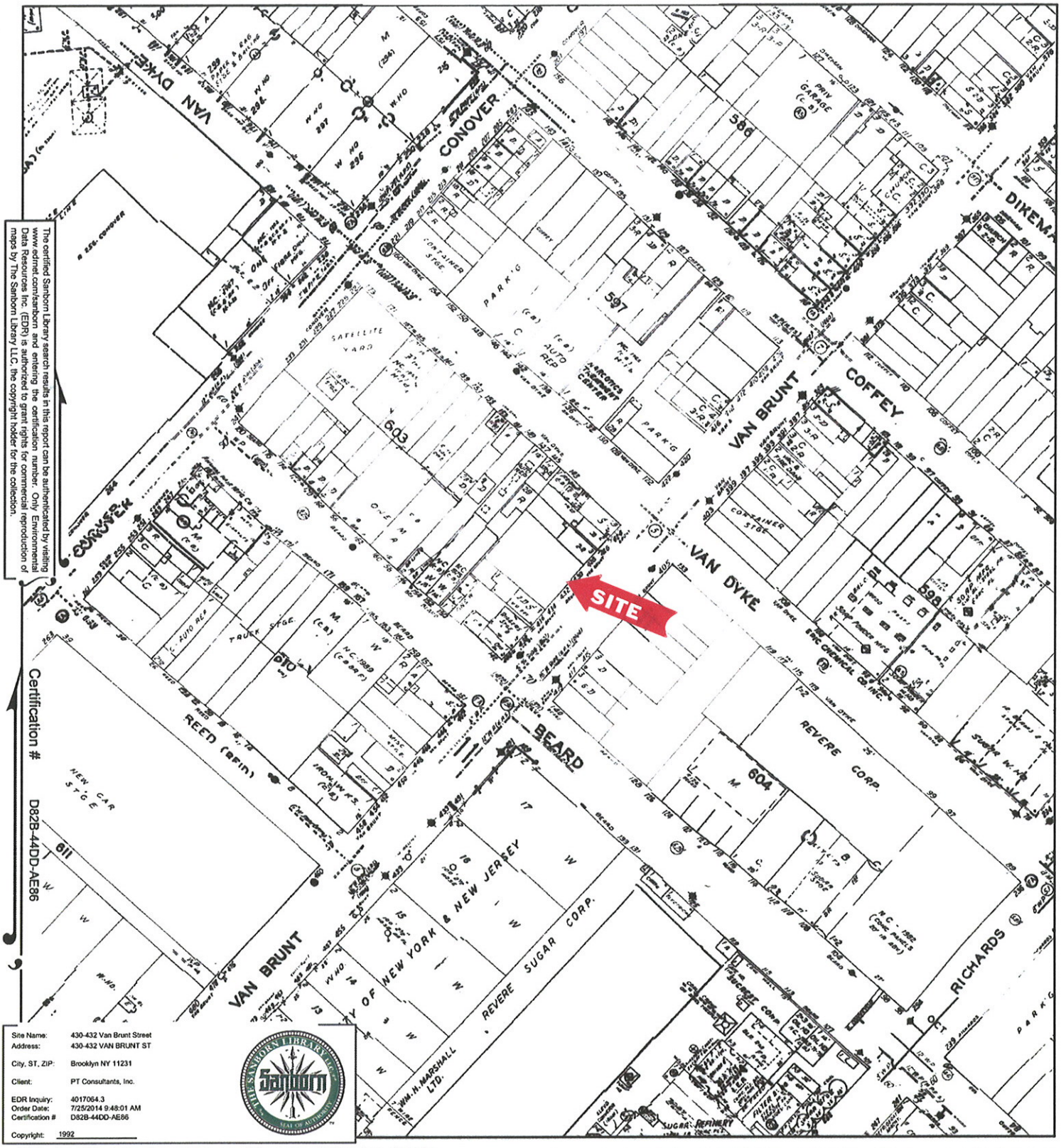

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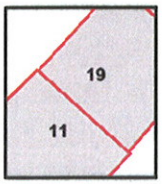

Volume 1, Sheet 11
Volume 1, Sheet 19

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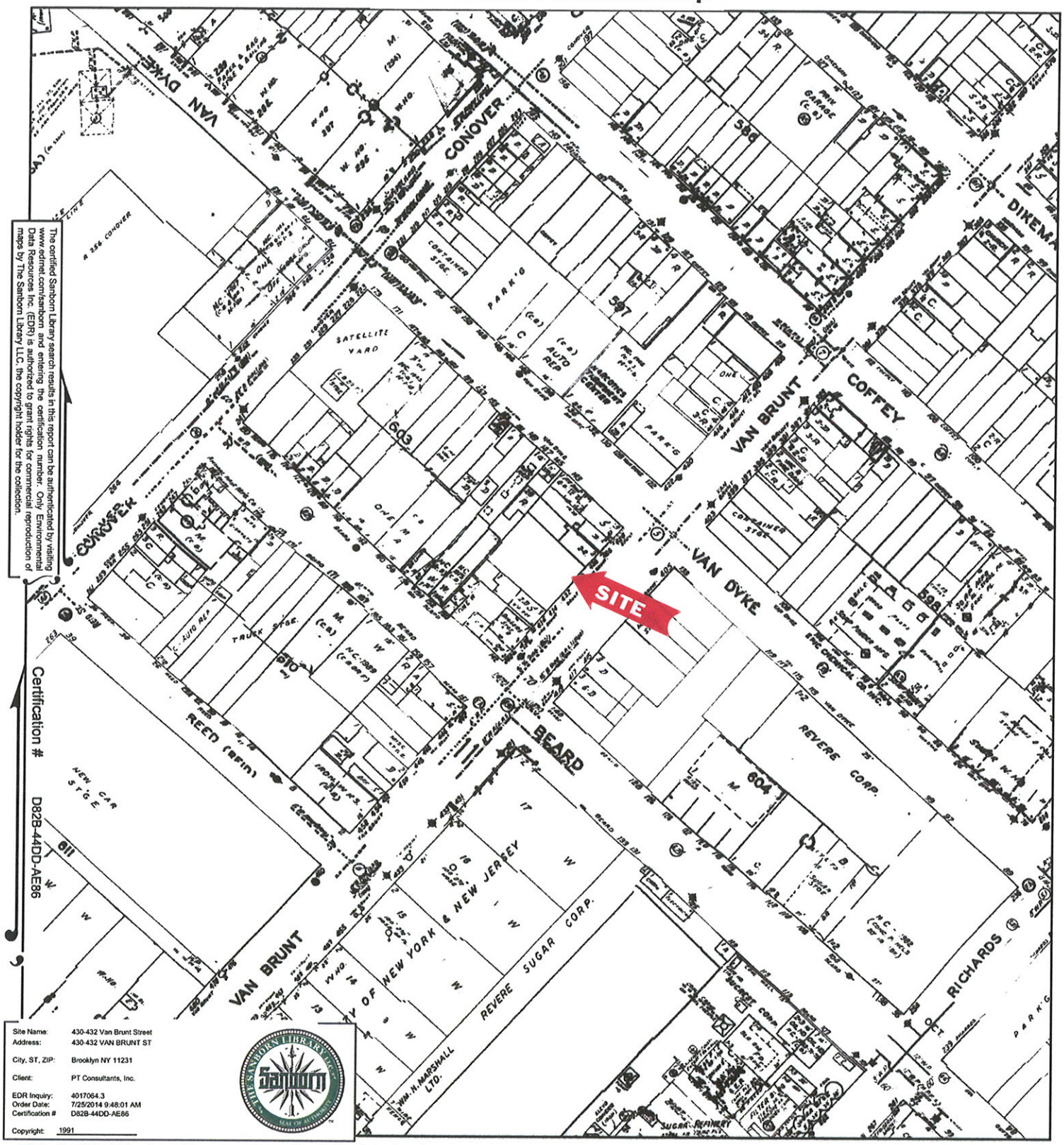
1991 Certified Sanborn Map



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Address:	430-432 VAN BRUNT ST
City, ST, ZIP:	Brooklyn NY 11231
Client:	PT Consultants, Inc.
EDR Inquiry:	4017064.3
Order Date:	7/25/2014 9:48:01 AM
Certification #	D82B-44DD-AE86
Copyright:	1991

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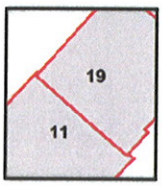

Volume 1, Sheet 11
Volume 1, Sheet 19

0 Feet 150 300 600

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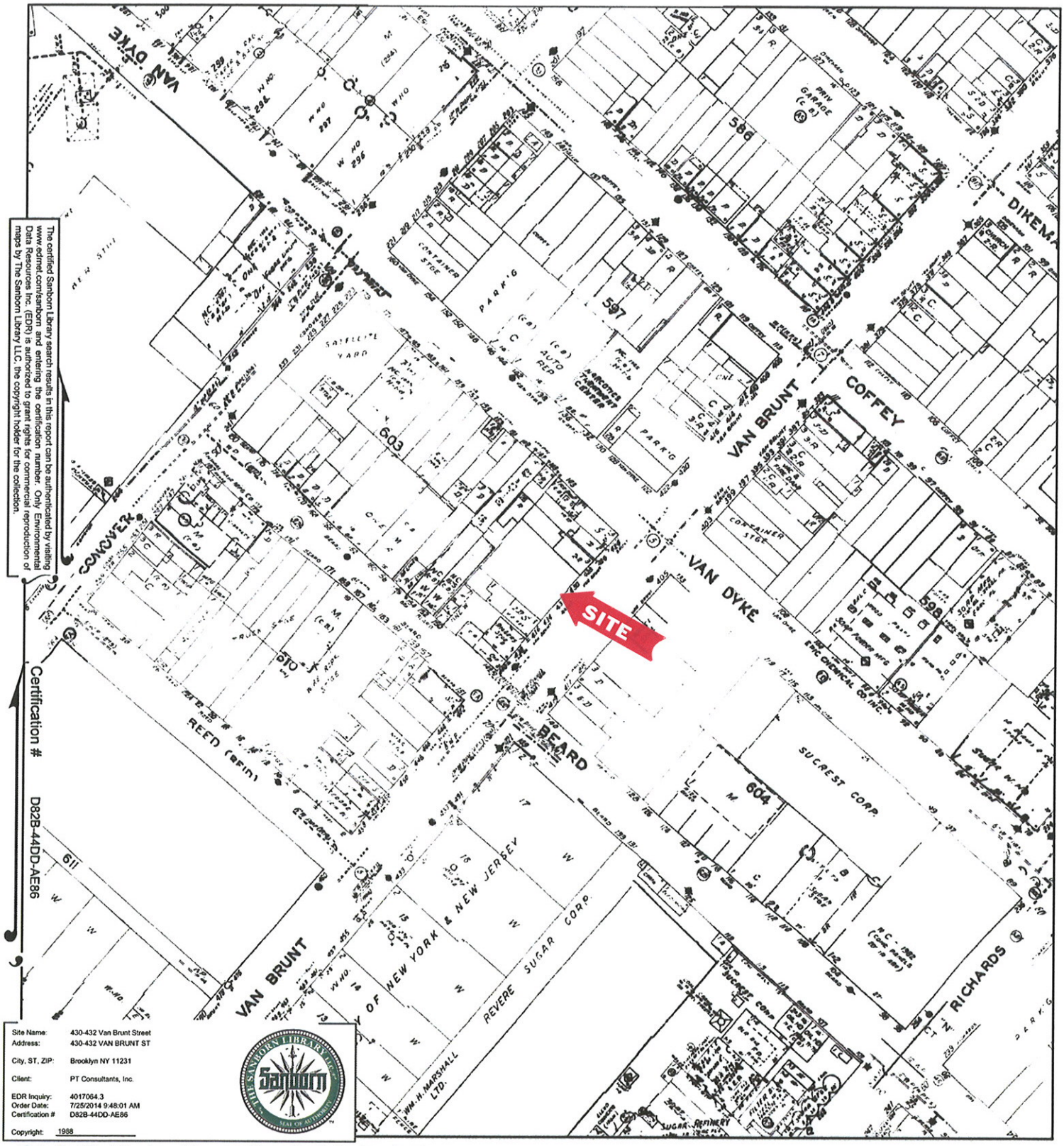
1988 Certified Sanborn Map



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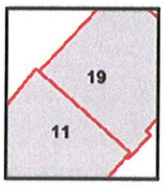

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0 Feet 150 300 600

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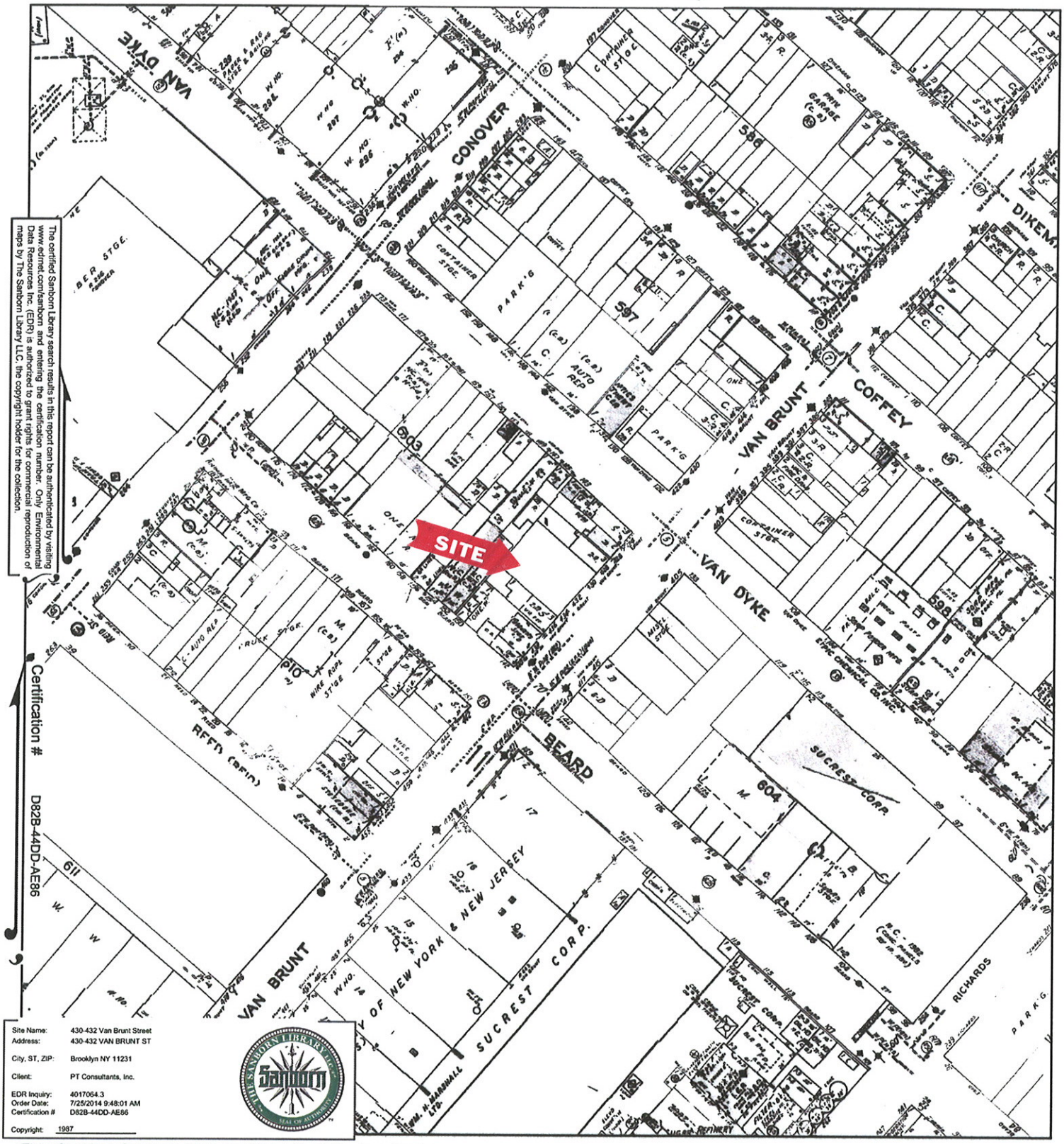
1987 Certified Sanborn Map



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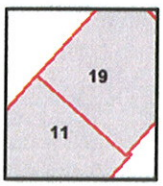

Volume 1, Sheet 19
Volume 1, Sheet 11

0 Feet 150 300 600

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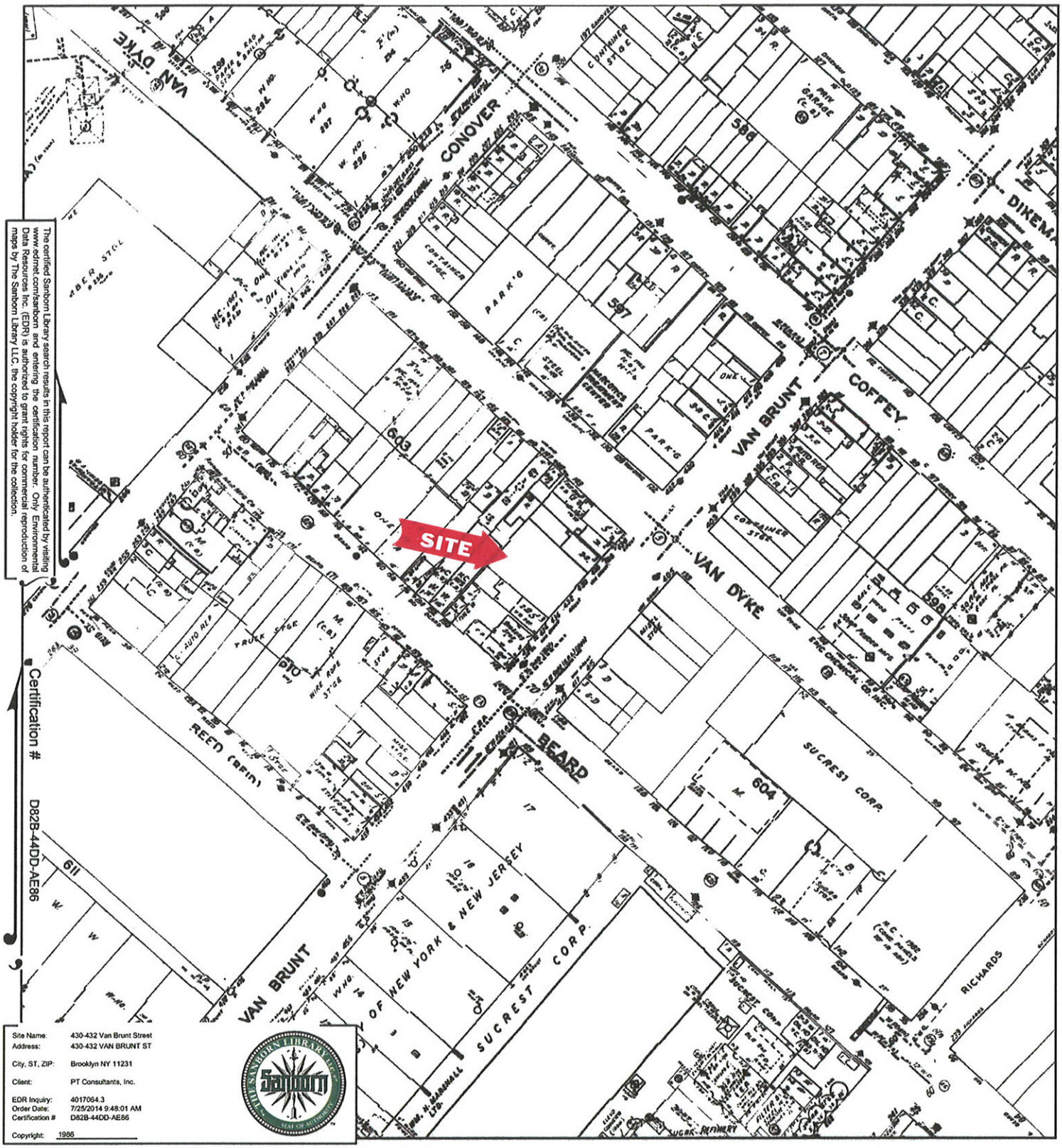
1986 Certified Sanborn Map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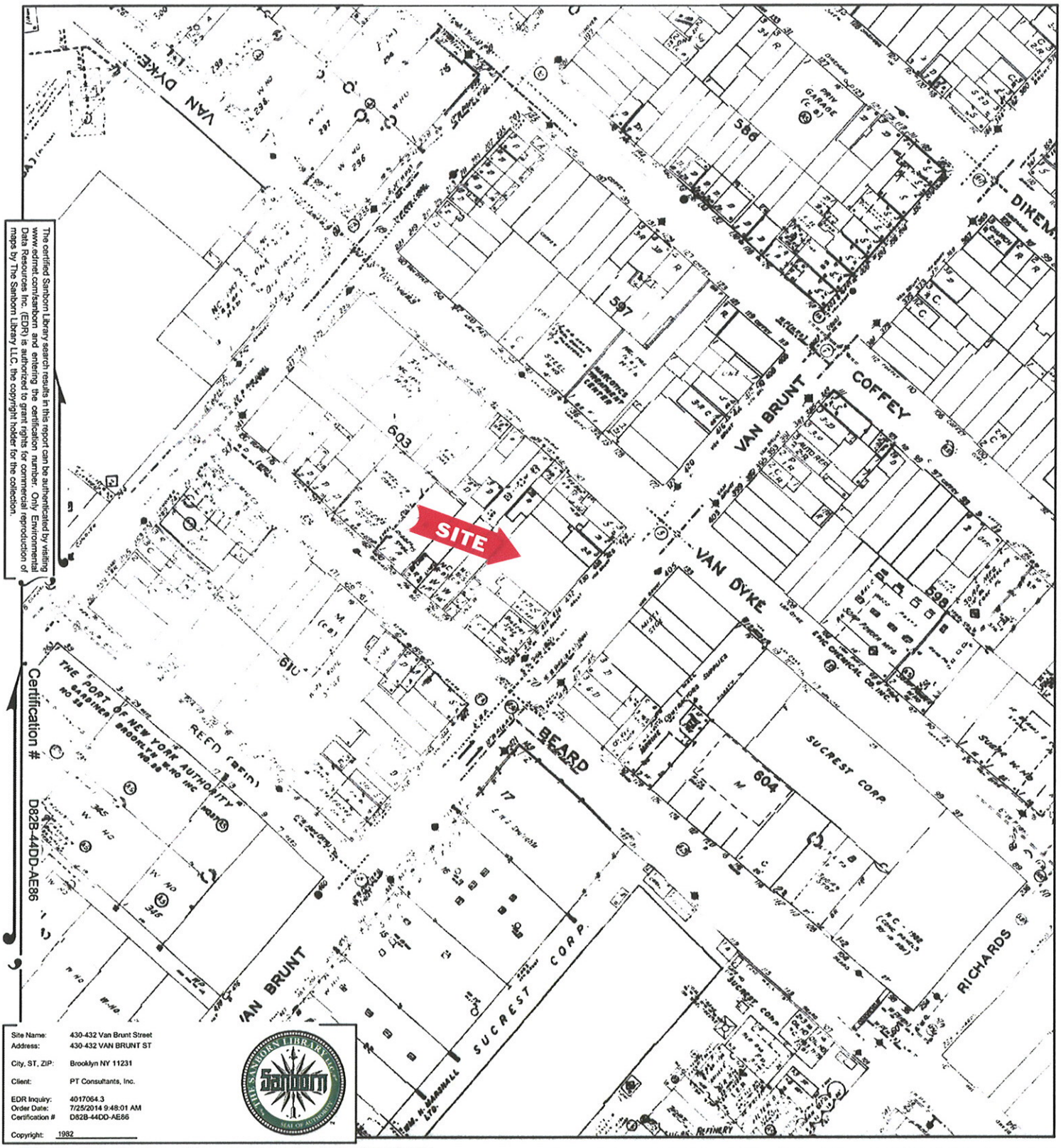
1982 Certified Sanborn Map



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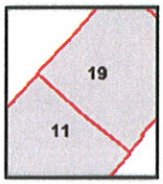
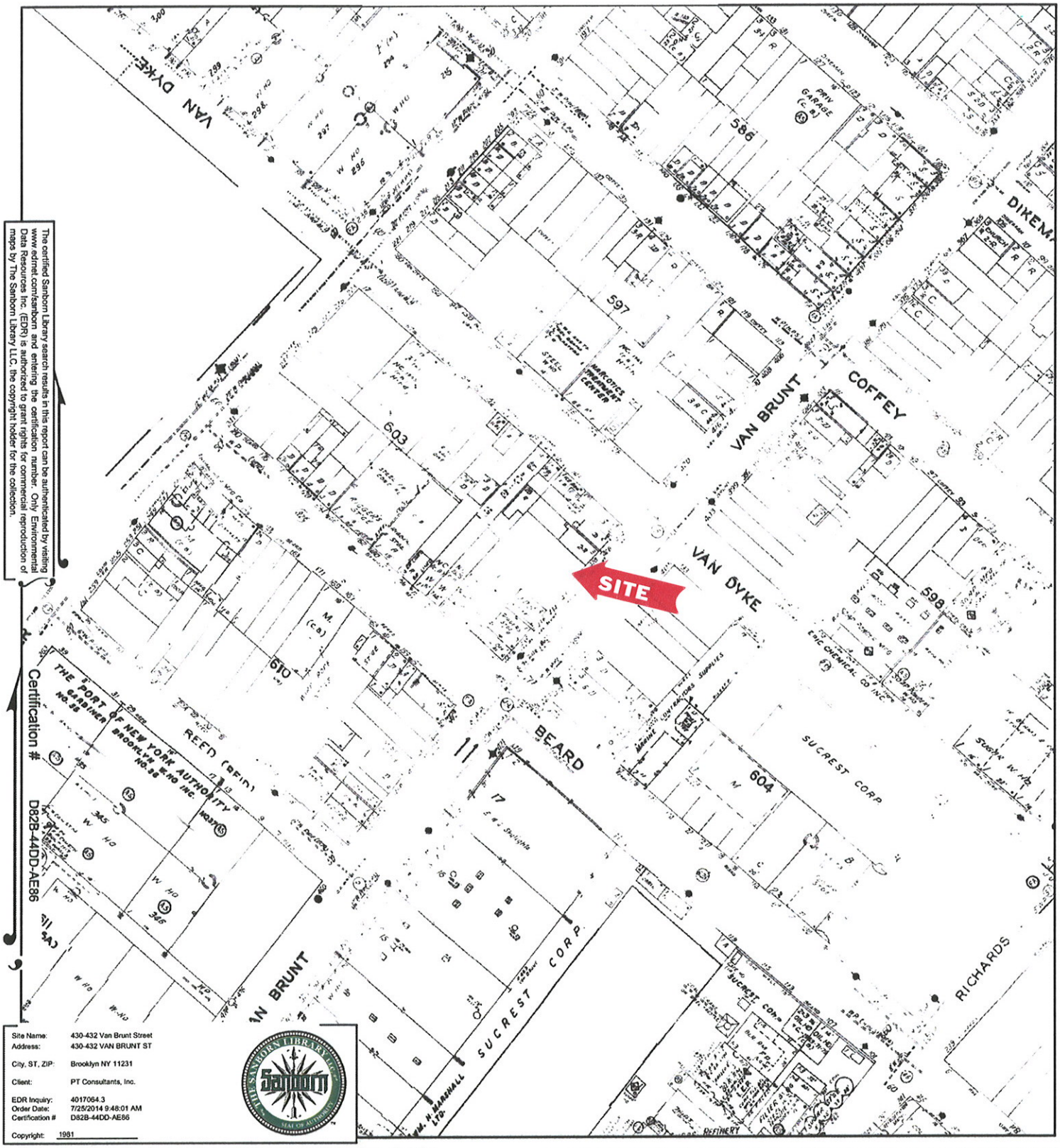


Volume 1, Sheet 11
Volume 1, Sheet 19

0 Feet 150 300 600

N

1981 Certified Sanborn Map



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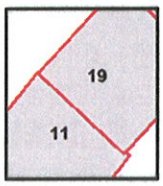
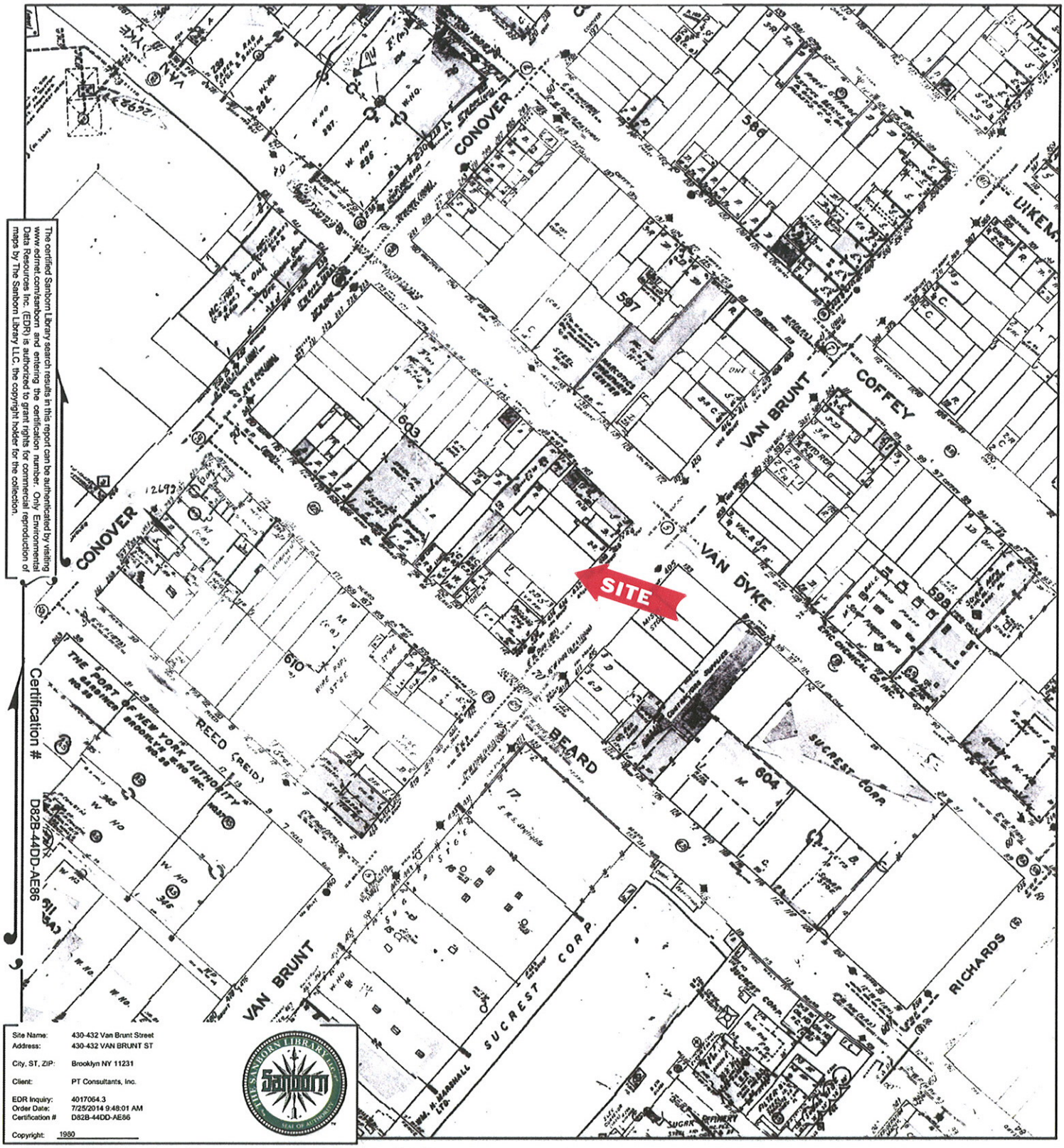


Volume 1, Sheet 11
Volume 1, Sheet 19

0 Feet 150 300 600

N

1980 Certified Sanborn Map



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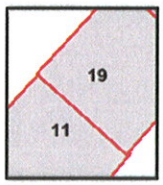

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Volume 1, Sheet 19

0 Feet 150 300 600

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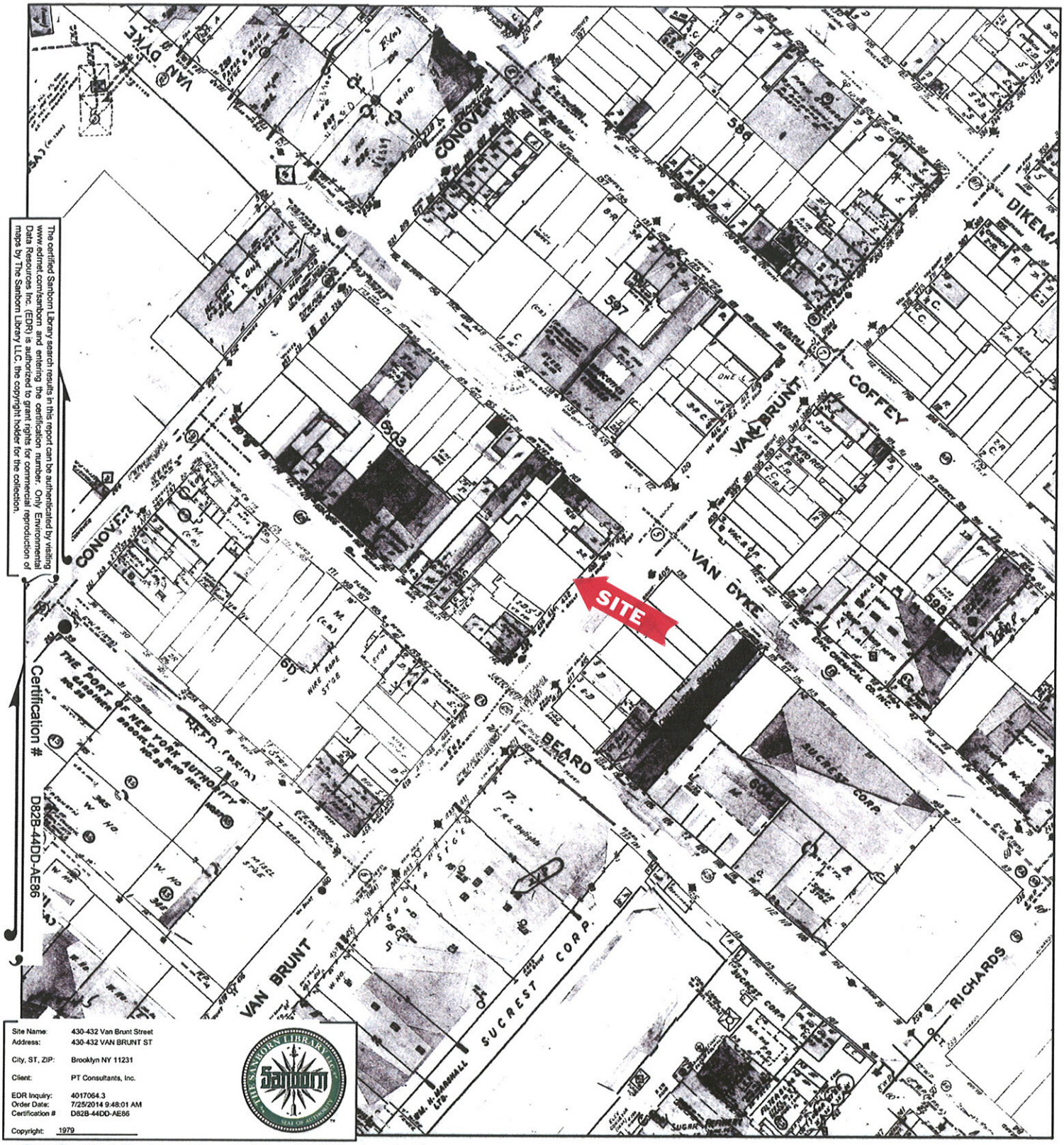
1979 Certified Sanborn Map



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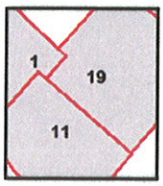

Volume 1, Sheet 19
Volume 1, Sheet 1
Volume 1, Sheet 11

0 Feet 150 300 600

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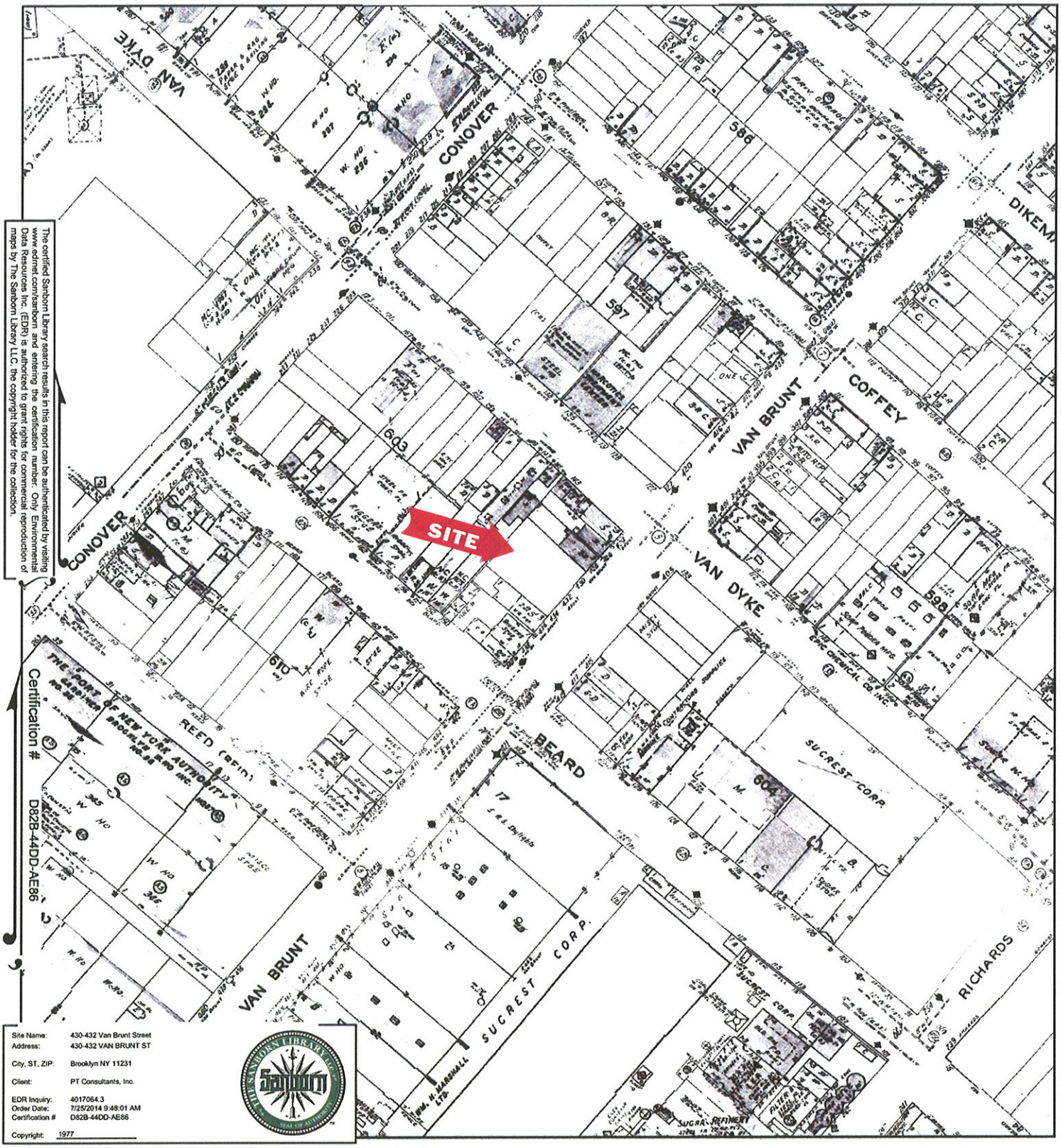
1977 Certified Sanborn Map



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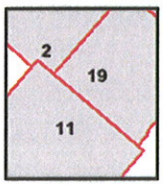

Volume 1, Sheet 11
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Volume 1, Sheet 2

0 Feet 150 300 600

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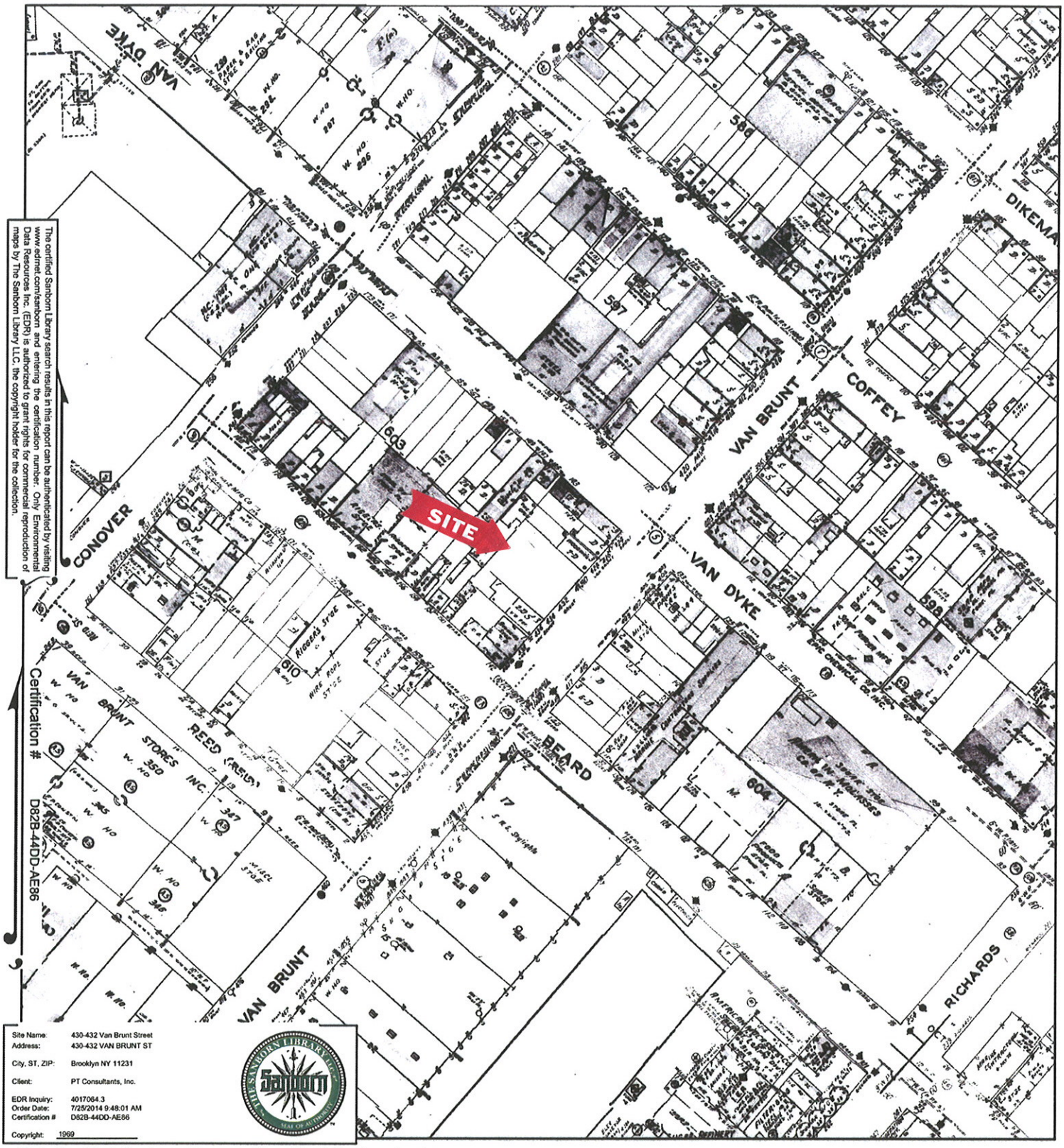
1969 Certified Sanborn Map



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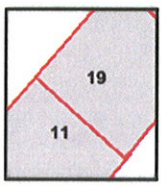

Volume 1, Sheet 11
Volume 1, Sheet 19

0 Feet 150 300 600

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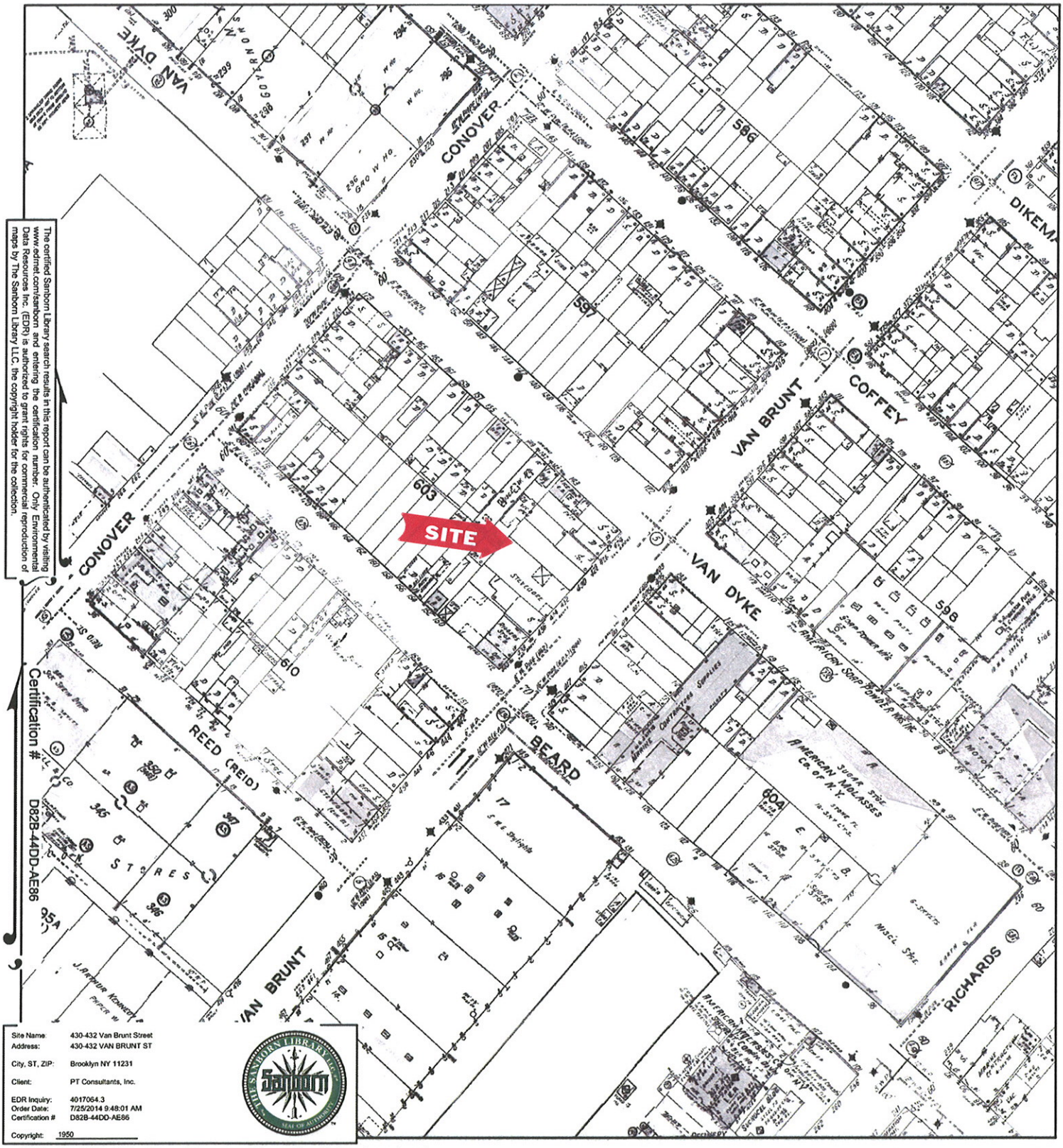
1950 Certified Sanborn Map



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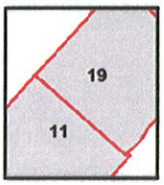

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Volume 1, Sheet 19

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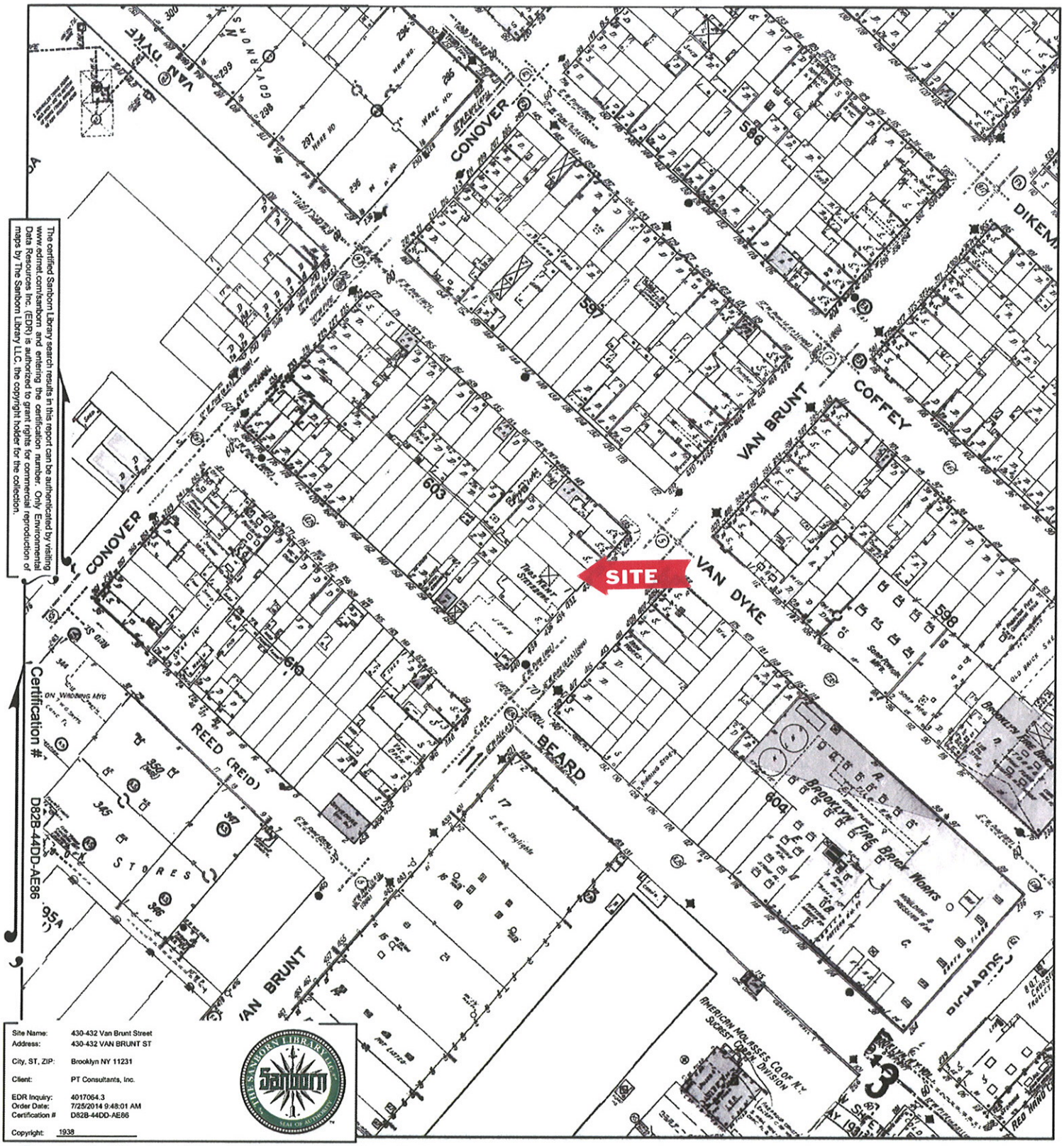
1938 Certified Sanborn Map



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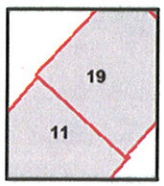

Volume 1, Sheet 19
Volume 1, Sheet 11

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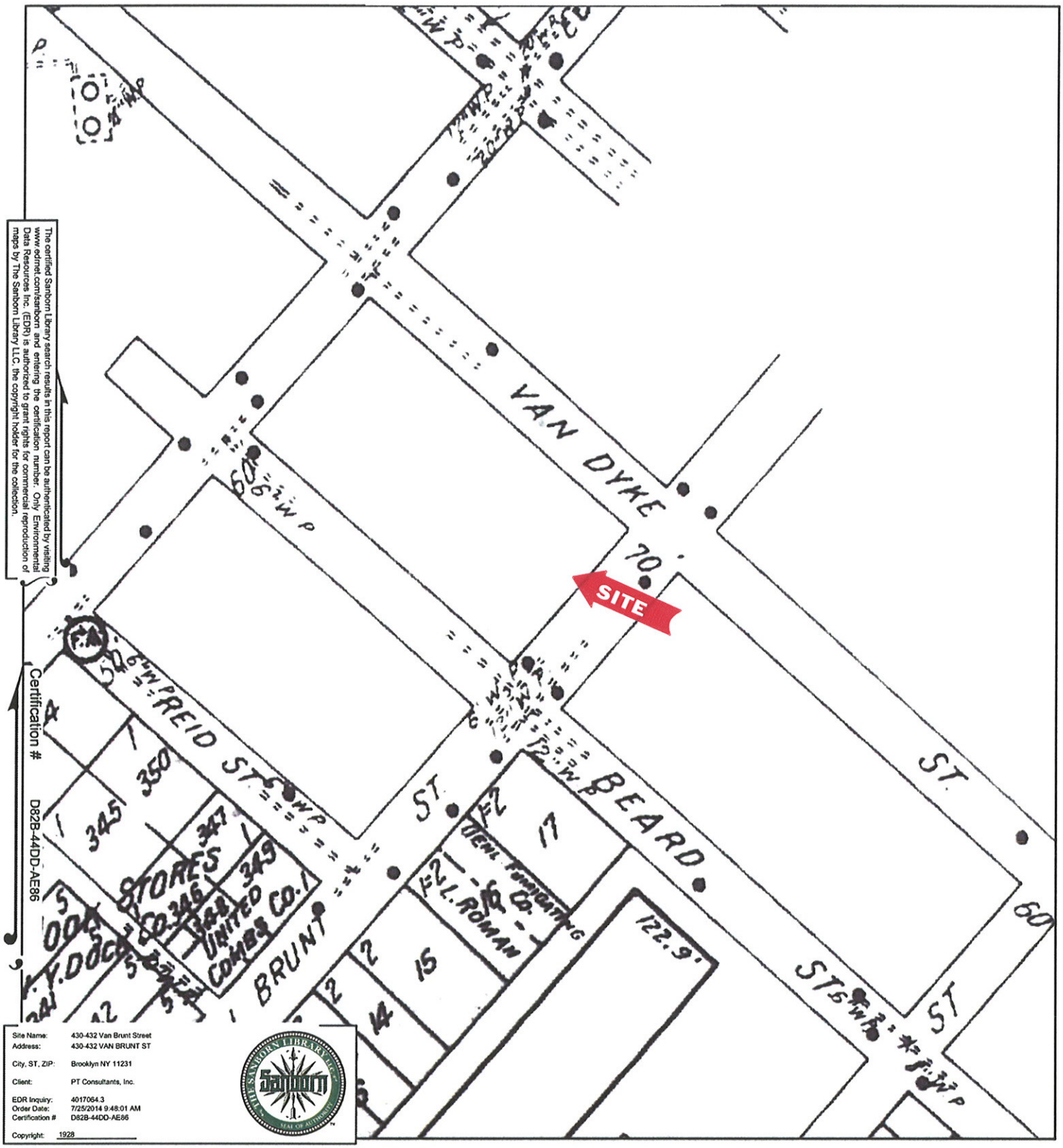
N

1928 Certified Sanborn Map



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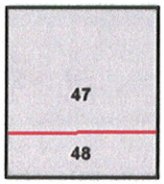
Certification # D82B-44DD-AE86

Site Name:	430-432 Van Brunt Street
Address:	430-432 VAN BRUNT ST
City, ST, ZIP:	Brooklyn NY 11231
Client:	PT Consultants, Inc.
EDR Inquiry:	4017064.3
Order Date:	7/25/2014 9:48:01 AM
Certification #	D82B-44DD-AE86
Copyright:	1928

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

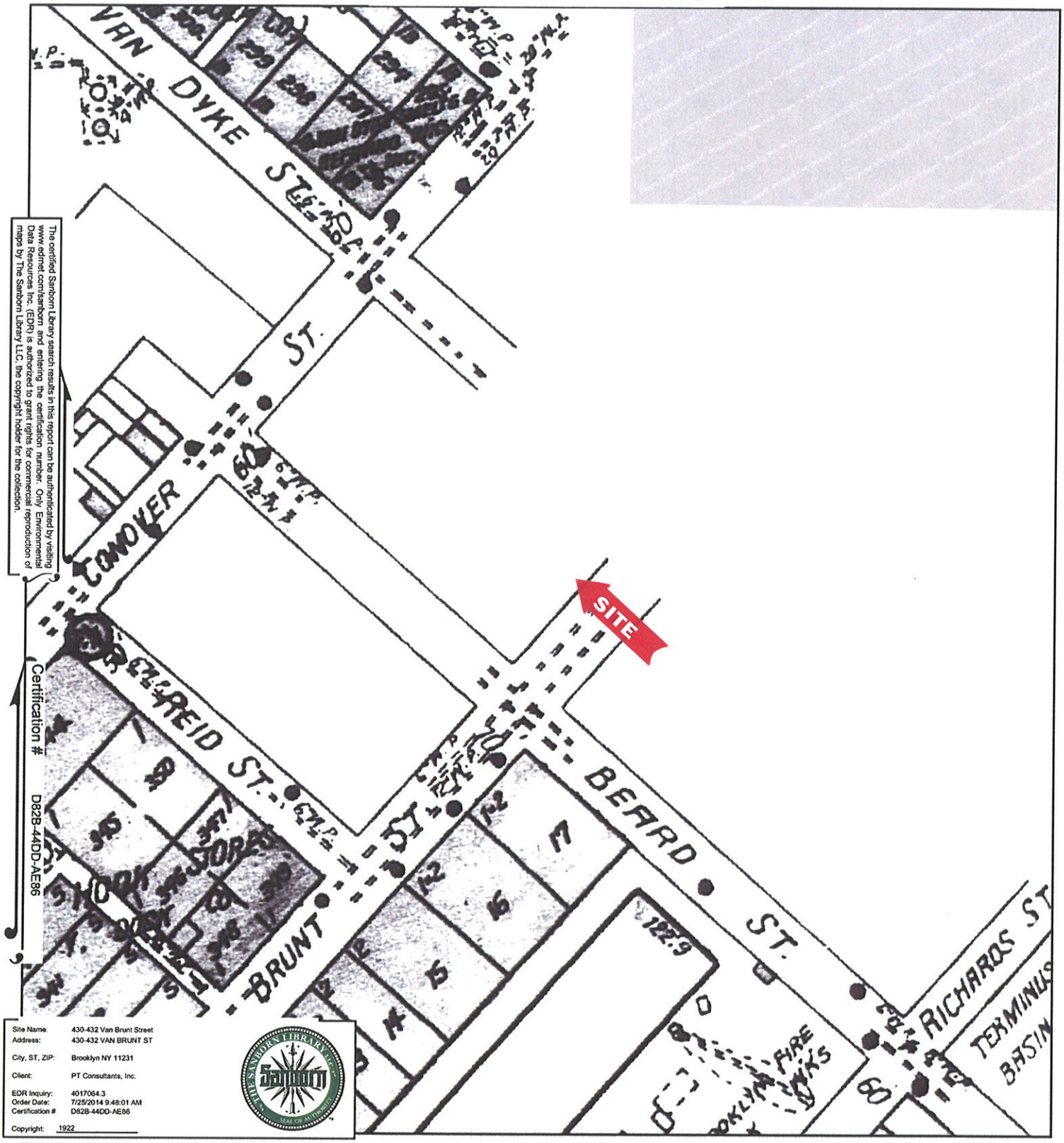


Volume Pier Maps, Sheet 47
Volume Pier Maps, Sheet 48

0 Feet 150 300 600

N

1922 Certified Sanborn Map



Site Name:	430-432 Van Brunt Street
Address:	430-432 VAN BRUNT ST
City, ST, ZIP:	Brooklyn NY 11231
Client:	PT Consultants, Inc.
EDR Inquiry:	4017064.3
Order Date:	7/25/2014 9:48:01 AM
Certification #	D82B-44DD-AE86
Copyright:	1922

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

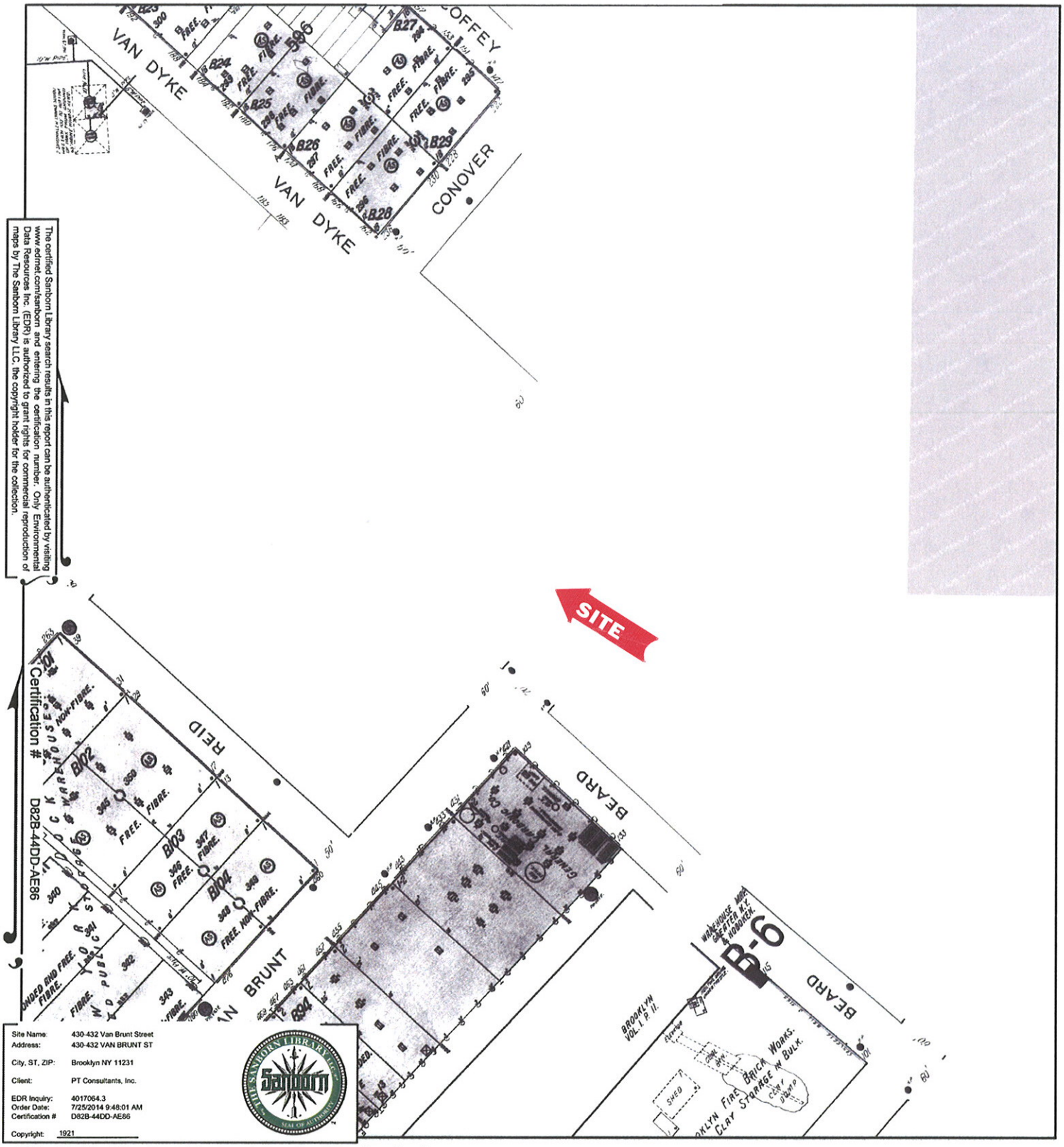
0 Feet 150 300 600

39

Volume Pier Maps, Sheet 39

N

1921 Certified Sanborn Map



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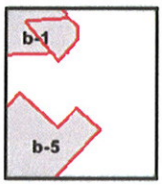
Certification # D82B-44DD-AE86

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

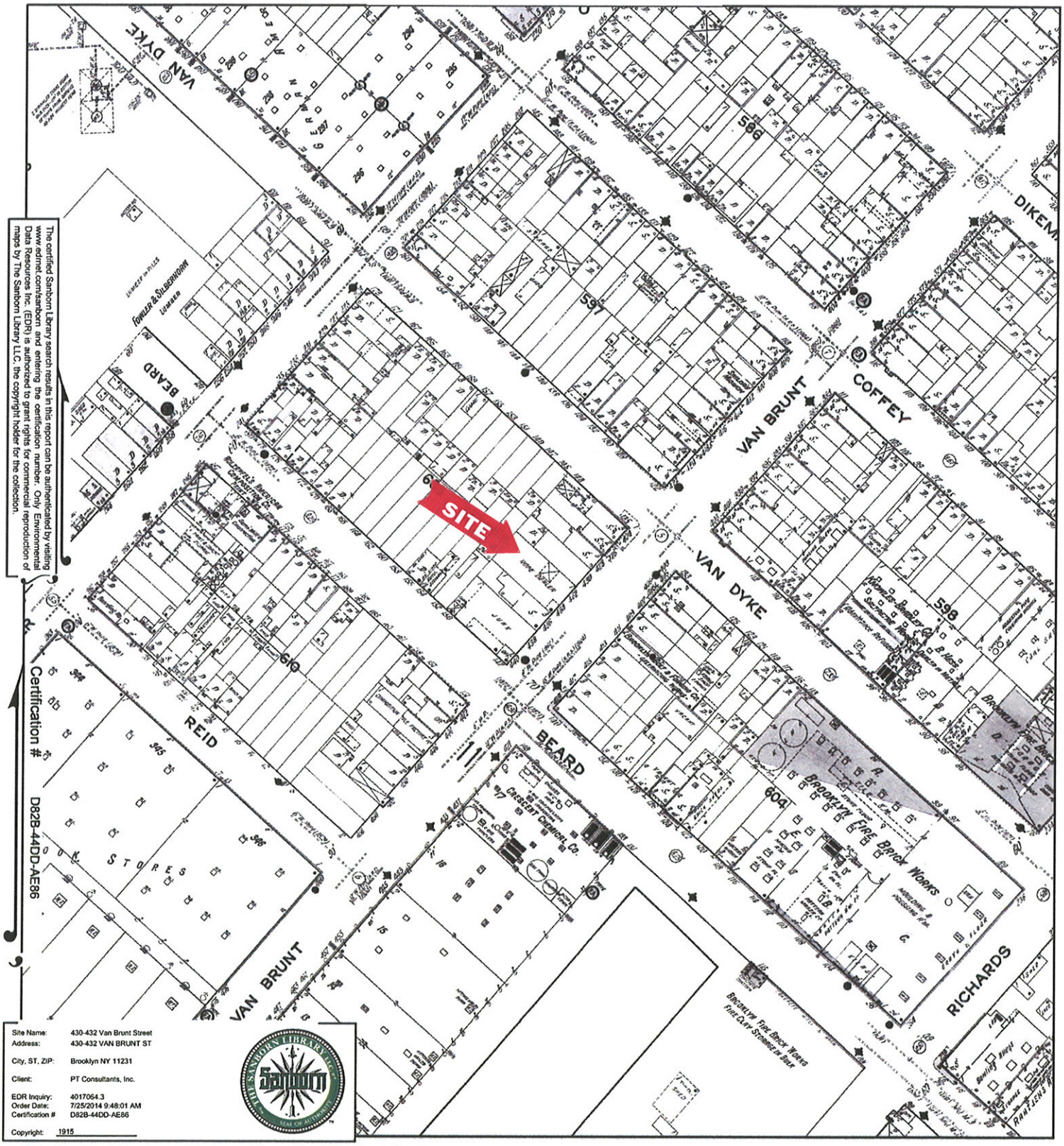


Volume Atlas Maps, Sheet b-1
Volume Atlas Maps, Sheet b-5

0 Feet 150 300 600

N

1915 Certified Sanborn Map



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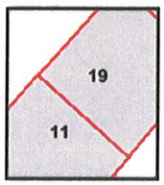
Certification # D82B-44DD-AE86

Site Name:	430-432 Van Brunt Street
Address:	430-432 VAN BRUNT ST
City, ST, ZIP:	Brooklyn NY 11231
Client:	PT Consultants, Inc.
EDR Inquiry:	4017064.3
Order Date:	7/25/2014 9:48:01 AM
Certification #	D82B-44DD-AE86
Copyright:	1915

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

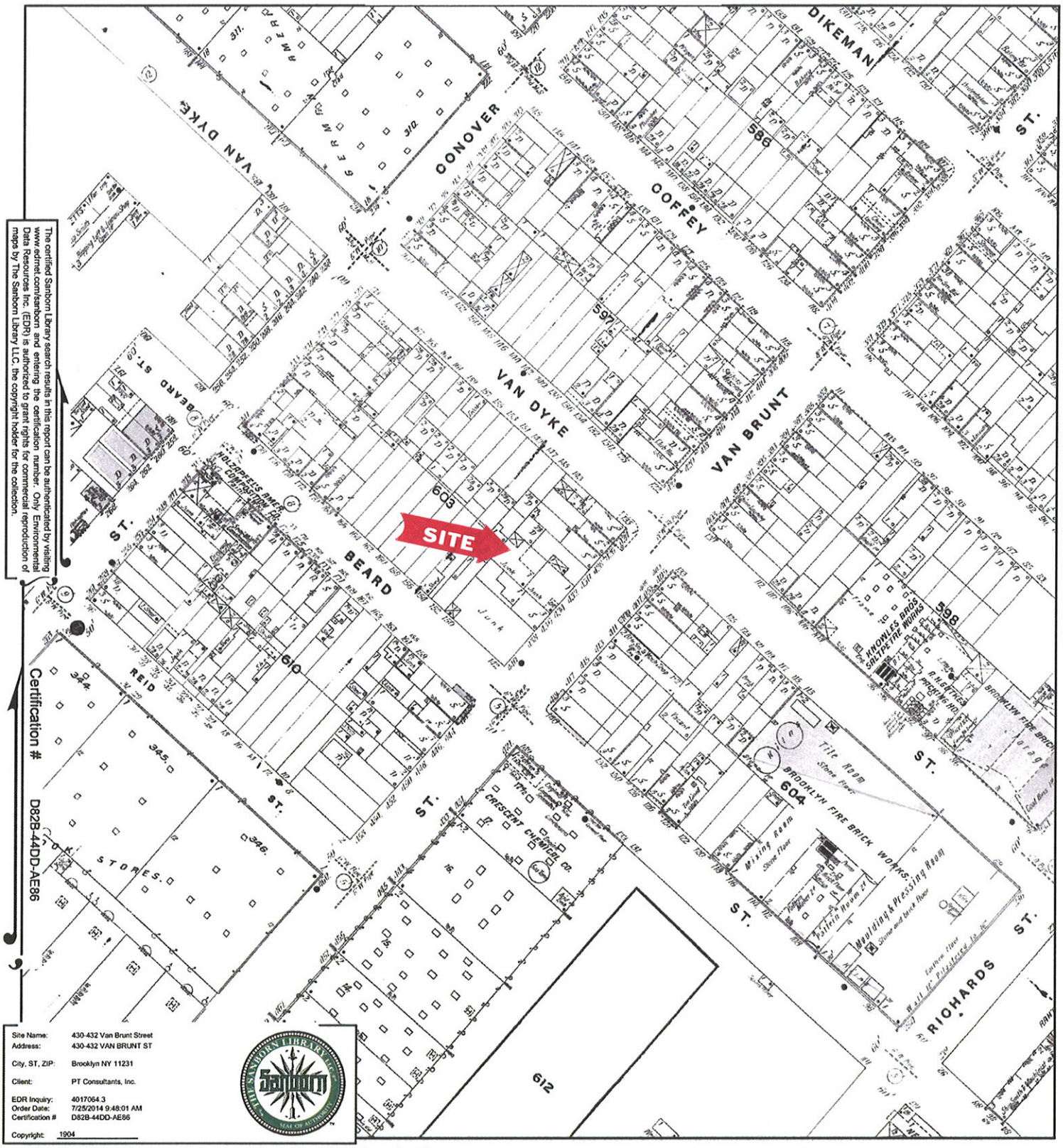


Volume 1, Sheet 11
Volume 1, Sheet 19

0 Feet 150 300 600

N

1904 Certified Sanborn Map



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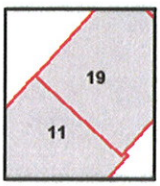
Certification # D82B-44DD-AE86

Site Name:	430-432 Van Brunt Street
Address:	430-432 VAN BRUNT ST
City, ST, ZIP:	Brooklyn NY 11231
Client:	PT Consultants, Inc.
EDR Inquiry:	4017064.3
Order Date:	7/25/2014 9:48:01 AM
Certification #	D82B-44DD-AE86
Copyright:	1904

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

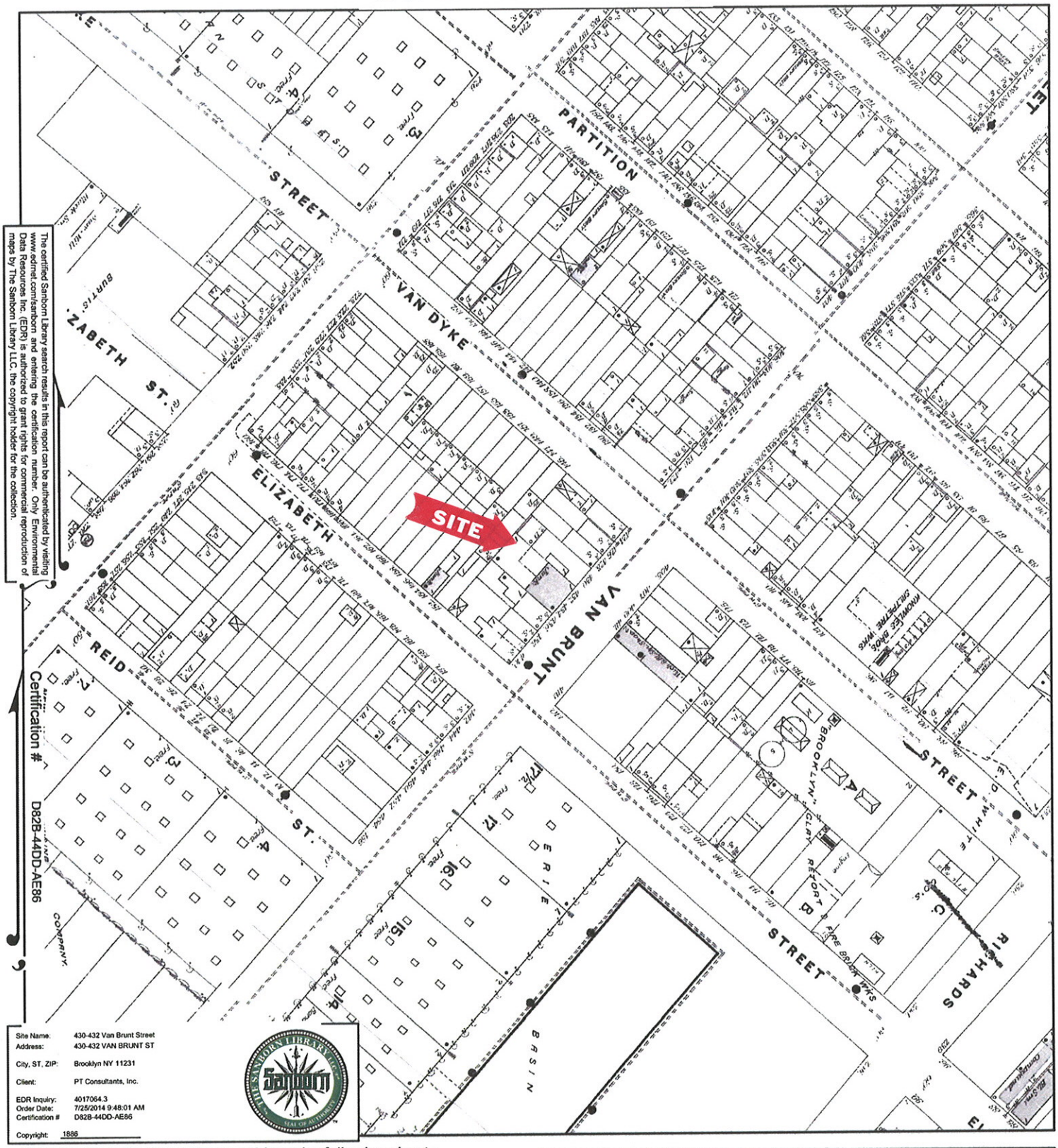


Volume 1, Sheet 11
Volume 1, Sheet 19

0 Feet 150 300 600

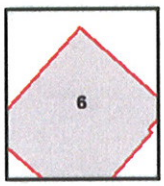
N

1886 Certified Sanborn Map



This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600



Volume 1, Sheet 6

N

APPENDIX 10
HISTORICAL TOPOGRPAHIC MAPS

430-432 Van Brunt Street
430-432 VAN BRUNT ST
Brooklyn, NY 11231

Inquiry Number: 4017064.4
July 24, 2014

EDR Historical Topographic Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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Historical Topographic Map

N	TARGET QUAD NAME: STATEN ISLAND MAP YEAR: 1891 SERIES: 15 SCALE: 1:62500	SITE NAME: 430-432 Van Brunt Street ADDRESS: 430-432 VAN BRUNT ST Brooklyn, NY 11231 LAT/LONG: 40.6756 / -74.0153	CLIENT: PT Consultants, Inc. CONTACT: Denis Cummings INQUIRY#: 4017064.4 RESEARCH DATE: 07/24/2014

Historical Topographic Map

N ↑	TARGET QUAD NAME: STATEN ISLAND MAP YEAR: 1900 SERIES: 15 SCALE: 1:62500	SITE NAME: 430-432 Van Brunt Street ADDRESS: 430-432 VAN BRUNT ST Brooklyn, NY 11231 LAT/LONG: 40.6756 / -74.0153	CLIENT: PT Consultants, Inc. CONTACT: Denis Cummings INQUIRY#: 4017064.4 RESEARCH DATE: 07/24/2014

Historical Topographic Map

N ↑	TARGET QUAD NAME: PASSAIC MAP YEAR: 1900 SERIES: 30 SCALE: 1:125000	SITE NAME: ADDRESS: LAT/LONG:	430-432 Van Brunt Street 430-432 VAN BRUNT ST Brooklyn, NY 11231 40.6756 / -74.0153	CLIENT: CONTACT: INQUIRY#: RESEARCH DATE:	PT Consultants, Inc. Denis Cummings 4017064.4 07/24/2014

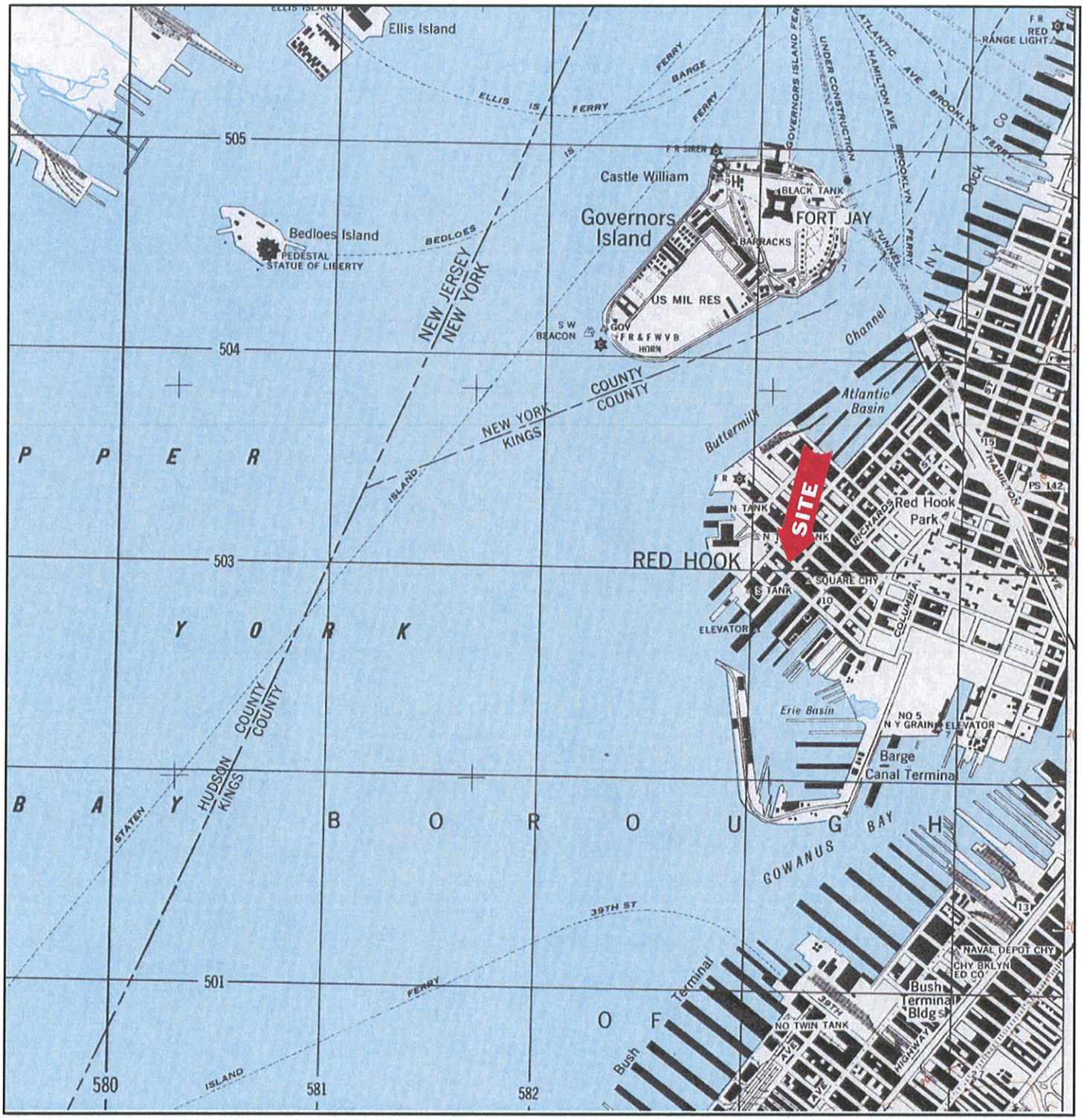
Historical Topographic Map

N	TARGET QUAD NAME: PASSAIC MAP YEAR: 1905 SERIES: 30 SCALE: 1:125000	SITE NAME: 430-432 Van Brunt Street ADDRESS: 430-432 VAN BRUNT ST Brooklyn, NY 11231 LAT/LONG: 40.6756 / -74.0153	CLIENT: PT Consultants, Inc. CONTACT: Denis Cummings INQUIRY#: 4017064.4 RESEARCH DATE: 07/24/2014

Historical Topographic Map

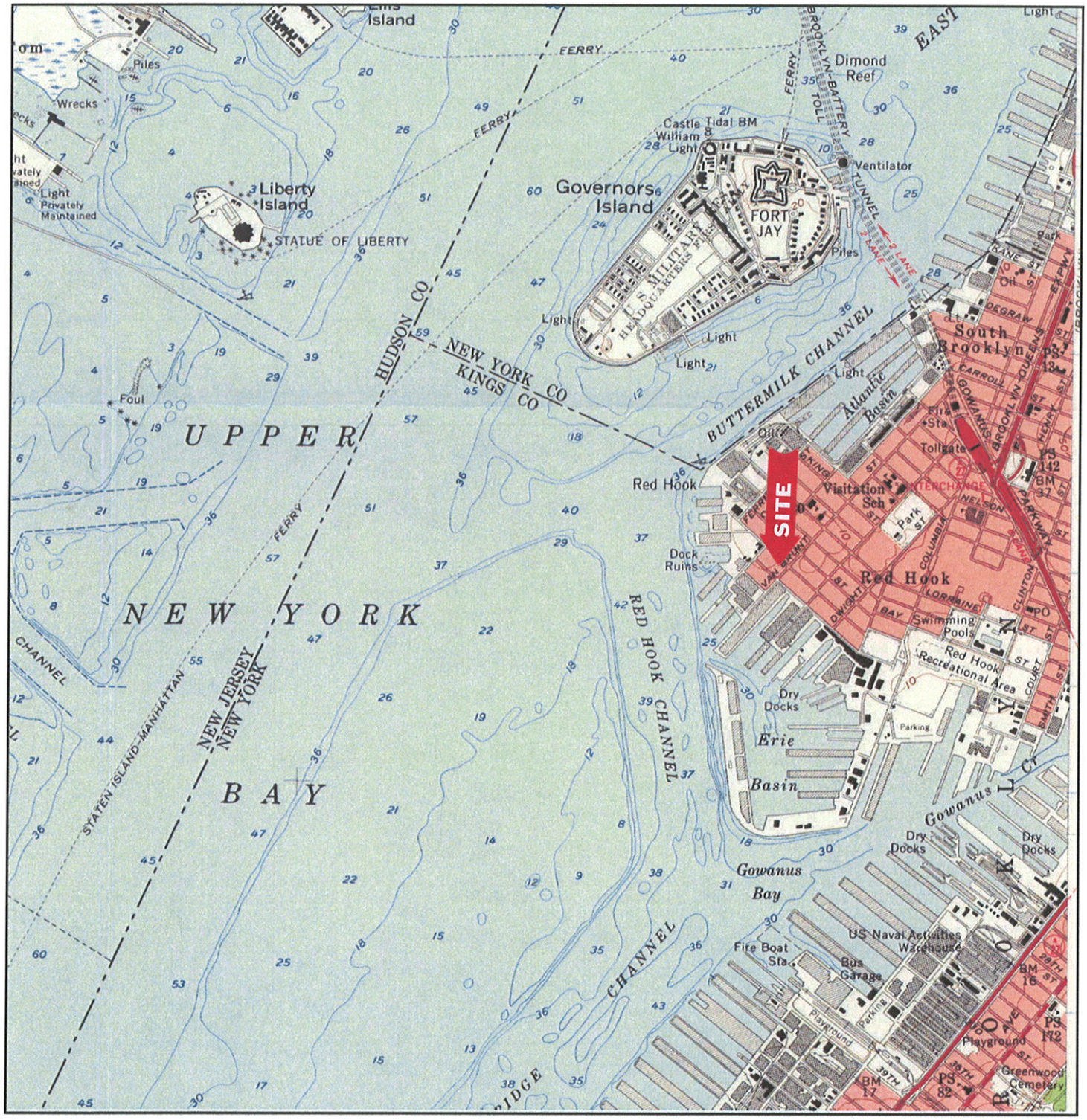
N	TARGET QUAD NAME: STATEN ISLAND MAP YEAR: 1925 REVISED FROM :1900 SERIES: 15 SCALE: 1:62500	SITE NAME: 430-432 Van Brunt Street ADDRESS: 430-432 VAN BRUNT ST Brooklyn, NY 11231 LAT/LONG: 40.6756 / -74.0153	CLIENT: PT Consultants, Inc. CONTACT: Denis Cummings INQUIRY#: 4017064.4 RESEARCH DATE: 07/24/2014

Historical Topographic Map



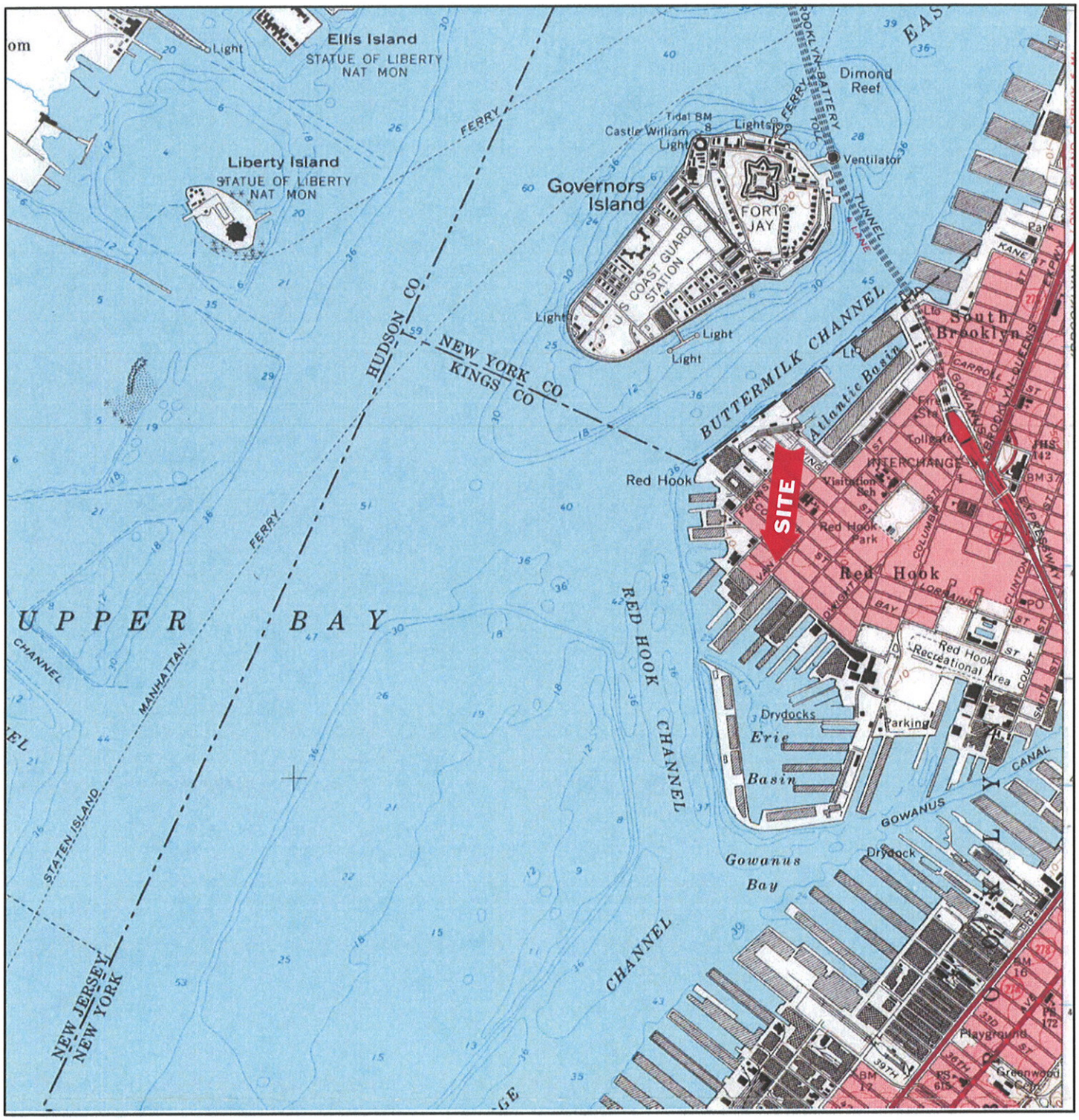
N	TARGET QUAD NAME: JERSEY CITY MAP YEAR: 1947 SERIES: 7.5 SCALE: 1:25000	SITE NAME: 430-432 Van Brunt Street ADDRESS: 430-432 VAN BRUNT ST Brooklyn, NY 11231 LAT/LONG: 40.6756 / -74.0153	CLIENT: PT Consultants, Inc. CONTACT: Denis Cummings INQUIRY#: 4017064.4 RESEARCH DATE: 07/24/2014

Historical Topographic Map



N	TARGET QUAD NAME: JERSEY CITY MAP YEAR: 1955 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 430-432 Van Brunt Street ADDRESS: 430-432 VAN BRUNT ST Brooklyn, NY 11231 LAT/LONG: 40.6756 / -74.0153	CLIENT: PT Consultants, Inc. CONTACT: Denis Cummings INQUIRY#: 4017064.4 RESEARCH DATE: 07/24/2014

Historical Topographic Map



N	TARGET QUAD NAME: JERSEY CITY MAP YEAR: 1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 430-432 Van Brunt Street ADDRESS: 430-432 VAN BRUNT ST Brooklyn, NY 11231 LAT/LONG: 40.6756 / -74.0153	CLIENT: PT Consultants, Inc. CONTACT: Denis Cummings INQUIRY#: 4017064.4 RESEARCH DATE: 07/24/2014

Historical Topographic Map

N	TARGET QUAD NAME: JERSEY CITY MAP YEAR: 1981 PHOTOREVISED FROM :1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 430-432 Van Brunt Street ADDRESS: 430-432 VAN BRUNT ST Brooklyn, NY 11231 LAT/LONG: 40.6756 / -74.0153	CLIENT: PT Consultants, Inc. CONTACT: Denis Cummings INQUIRY#: 4017064.4 RESEARCH DATE: 07/24/2014

APPENDIX 11
CITY DIRECTORY SEARCH

430-432 Van Brunt Street
430-432 VAN BRUNT ST
Brooklyn, NY 11231

Inquiry Number: 4017064.5
July 25, 2014

The EDR-City Directory Abstract

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1928 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 100 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2013	Cole Information Services	-	-	-	-
	Cole Information Services	-	X	X	-
2008	Cole Information Services	-	X	X	-
2005	Hill-Donnelly Corporation	-	X	X	-
2000	Cole Information Services	-	X	X	-
1997	NYNEX	-	X	X	-
1992	NYNEX Informantion Resource Co.	-	-	-	-
1985	NYNEX Information Resources Company	-	-	-	-
1980	New York Telephone	-	-	-	-
1976	New York Telephone	-	X	X	-
1973	New York Telephone	-	-	-	-
1970	New York Telephone	-	X	X	-
1965	New York Telephone	-	X	X	-
1960	New York Telephone	-	X	X	-
	New York Telephone Company	-	X	X	-
1949	New York Telephone	-	X	X	-
1945	New York Telephone	-	X	X	-
1940	New York Telephone	-	X	X	-
1934	R. L. Polk & Co.	-	X	X	-
1928	New York Telephone	-	X	X	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	*Type*	*Findings*
430 VAN BRUNT STREET	Client Entered	
432 VAN BRUNT STREET	Client Entered	
405 VAN BRUNT STREET	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

430-432 VAN BRUNT ST
Brooklyn, NY 11231

FINDINGS DETAIL

Target Property research detail.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

VAN BRUNT

411 VAN BRUNT

Year	Uses	Source
1960	PORT SMITHS INC	New York Telephone
1934	BRADLEY JAS A V PRES-SEC PORT ENGINEERING WORKS INC	R. L. Polk & Co.

413 VAN BRUNT

Year	Uses	Source
1934	O NEILL EDWIN MRS R	R. L. Polk & Co.
	HYLAN WM LAB R	R. L. Polk & Co.
	HYLAN DANL LAB R	R. L. Polk & Co.
	HANEY JOHN IRONWKR H	R. L. Polk & Co.
1928	LEDWIN IDA MRS R	New York Telephone

415 VAN BRUNT

Year	Uses	Source
1976	MILDRED S LUNCHEOHETTE	New York Telephone
	SURILLO T	New York Telephone
1960	BEARY CATHERINE MRS	New York Telephone
1934	KOSTYRKA CONSTANT IRONWKR H	R. L. Polk & Co.

434 VAN BRUNT

Year	Uses	Source
1960	BANKS WM RIGRS	New York Telephone
	MARITIME TESTING CORP	New York Telephone

VAN BRUNT ST

405 VAN BRUNT ST

Year	Uses	Source
2013	EVERLAST CUSTOM CONSTRUCTION CORP	Cole Information Services
2008	EVERLASTING CUSTOM CONSTRUCTION CORP	Cole Information Services

FINDINGS

411 VAN BRUNT ST

Year	Uses	Source
1970	Port Smitns Inc	New York Telephone
1965	Port Smiths Inc	New York Telephone
1960	Port Smiths Inc	New York Telephone Company
1945	Port Engnrng Wks	New York Telephone
1940	Port Engineering Wks Inc	New York Telephone

415 VAN BRUNT ST

Year	Uses	Source
2005	h Oquita Richard	Hill-Donnelly Corporation
2000	4 DORIS LOECHLE	Cole Information Services
	3 JACK MORTENSBAK	Cole Information Services
	THOMAS J SCHNALDT	Cole Information Services
	1 TERENCE ACCOLA	Cole Information Services
	APARTMENTS	Cole Information Services
1997	SUZUKI Tomohiro	NYNEX
	STEVENS Aishe	NYNEX
	PAIR Darrow	NYNEX
	FRATESI Joseph	NYNEX
	CUMMINS K	NYNEX
	BRENDAN Guy	NYNEX
1960	Beary Catherine Mrs	New York Telephone Company
1949	Beary Catherine Mrs	New York Telephone
1945	Beary Marion	New York Telephone
	Beary M C	New York Telephone

434 VAN BRUNT ST

Year	Uses	Source
1960	Banks Wm rigrs	New York Telephone Company
1949	Banks Wm riggers	New York Telephone
1945	Banks Wm Jr rigger	New York Telephone
	Red Hook Rigging Co	New York Telephone
1940	Banks Wm rigger	New York Telephone

436 VAN BRUNT ST

Year	Uses	Source
2008	ONE ELEVEN INTERACTIVE INC	Cole Information Services

FINDINGS

VAN BRUNT STREET

405 VAN BRUNT STREET

Year	*Uses*	*Source*
2005	Tarr Nadia v	Hill-Donnelly Corporation

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
430-432 VAN BRUNT ST	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928

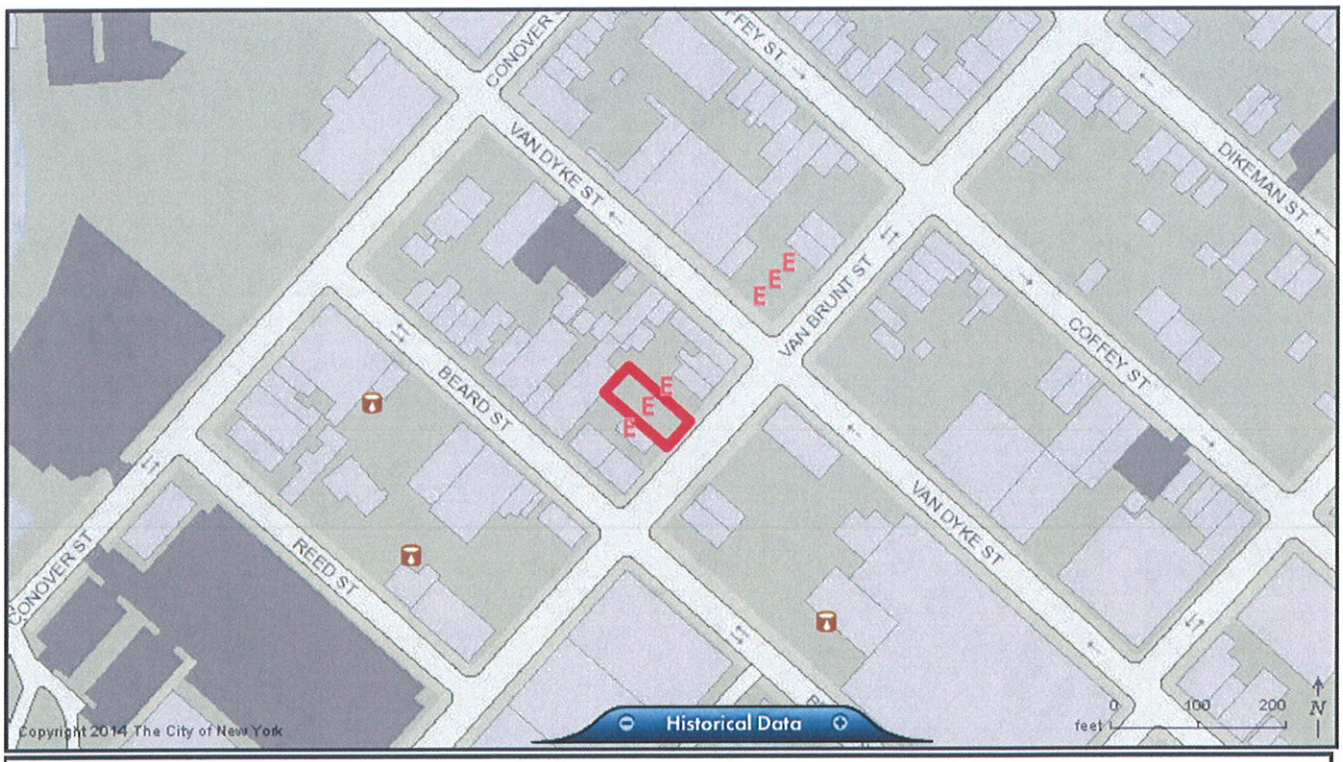
ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
405 VAN BRUNT ST	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
405 VAN BRUNT STREET	2013, 2008, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
411 VAN BRUNT	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1949, 1945, 1940, 1928
411 VAN BRUNT ST	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1949, 1934, 1928
413 VAN BRUNT	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940
415 VAN BRUNT	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1973, 1970, 1965, 1949, 1945, 1940, 1928
415 VAN BRUNT ST	2013, 2008, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1940, 1934, 1928
434 VAN BRUNT	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1949, 1945, 1940, 1934, 1928
434 VAN BRUNT ST	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1934, 1928
436 VAN BRUNT ST	2013, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928

APPENDIX 12
ENVIRONMENTAL DATABASE GIS MAP

NYCityMap



E NYC E-Designation Sites (E)

NYS Open Petroleum Spill Locations

NYS Petroleum Bulk Storage Sites (PBS)

NYS Resource Conservation & Recovery Act Facilities (RCRA)

NYCityMap

E NYC E-Designation Sites (E)

NYS Open Petroleum Spill Locations

NYS Petroleum Bulk Storage Sites (PBS)

NYS Resource Conservation & Recovery Act Facilities (RCRA)

APPENDIX 13
PHASE I ESA CHECKLIST

PT Consultants, Inc.
Phase I Inspection Check List

Date: 7/24/2014
Site Name: 430-434 Van Brunt Street
Address: 430-434 Van Brunt Street
City or Town: Brooklyn State: NY Zip Code: 11231
Municipality: Brooklyn County: Kings
Block(s): 603 Lots(s): 23 & 24

Buildings:	NA		
Year Constructed:	NA	Material:	NA
Approximate Size:	NA		
Utilities:	NA		

Recognized Environmental Condition (REC)	Currently or Formerly Exists at the Site Yes/No	Description of REC	Phase II Recommended Yes/No
Aboveground Storage Tanks and Associated Piping	No		
Underground Storage tanks and Associated Piping	Potential	Site historically developed prior to 1960's. Features associated with such unknown	Yes
Silos	No		
Rail Cars	No		
Loading and unloading areas	No		
Piping, above ground and below ground pumping stations, sumps and pits	No		

Storage pads including drum and/or waste storage	Yes	Several staging areas consisting of trucks, trailers, miscellaneous building materials, solid waste debris were. PT also observed a total of five (5) 5-gallon pails of mastic and hydraulic fluid situated at various locations throughout the subject property	No
Surface impoundments and lagoons	No		
Dumpsters	No		
Chemical storage cabinets or closets	Yes	A storage container, which is utilized for the housing of building materials, compressed gas cylinders, and one (1) 55-gallon polyethylene drum, was observed within the northern corner of the subject property. The contents of the drum are unknown and at the time in which the inspection was completed, the drum was noted as having been staged on its side allowing the contents of such to spill onto the wooden floor of the storage container.	Yes
Floor drains, trenches and piping and sumps	No		
Process area sinks and piping which receive process waste	No		
Roof leaders when process operations vent to the roof	No		
Drainage swales & culverts	No		
Storm sewer collection systems	No		
Storm water detention ponds and fire ponds	No		
Surface water bodies	No		
Septic systems leachfields or seepage pits	No		
Drywells and sumps	No		

Areas of discharge	Yes	One (1) 55-gallon steel drum was observed within the northern portion of the property. The contents of the drum are unknown. PT noted the structural integrity of the drum appeared to have been compromised, causing it to rupture and discharge its contents onto the ground surface	Yes
Waste piles	No		
Waste water collection systems including septic systems, seepage pits, & dry wells.	No		
Landfills or landfarms	No		
Sprayfields	No		
Incinerators	No		
Historic Fill or any other Fill material	Yes	Two (2) small soil piles and test pit excavations situated along the center of the northern and southern property boundaries, respectively. Various layers of fill were observed throughout the soils piles as well as along the sidewalls of the excavated areas	Yes
Open Pipe discharges	No		
Electrical Transformers & Capacitors	No		
Hazardous material storage or handling areas	No		
Waste Treatment areas	No		
Discolored or spill areas	No		
Open areas away from production areas	No		

Areas of stressed vegetation	No		
Underground piping including industrial process sewers	No		
Compressor vent discharges	No		
Non-contact cooling water discharges	No		
Areas which receive flood or storm water from potentially contaminated areas	No		
Active or Inactive production wells	No		
Loading or Transfer areas	No		
Boiler rooms	No		
Air vents and ducts	No		
Fluorescent Lights	No		
Wetlands	No		
Asbestos Containing Materials	No		
Lead Based Paint	No		
Mold Impacted or water damaged materials	No		

Neighboring Properties	
Direction	Description of Property
North	The property is bordered directly north by residential properties followed by Van Dyke Street.
South	The property is bordered to the south by Van Brunt Street followed by residential and commercial properties.
East	The property is bordered to the east by residential and commercial properties followed by the intersection of Van Brunt Street and Van Dyke Street.
West	The property is bordered to the west by residential properties followed by Beard Street.

PT Inspector D. Cummings Date 7/24/2014

APPENDIX 14
PHOTO DOCUMENTATION

Photograph 1: View of the subject property

Photograph 2: View of the subject property facing southeast from the rear boundary

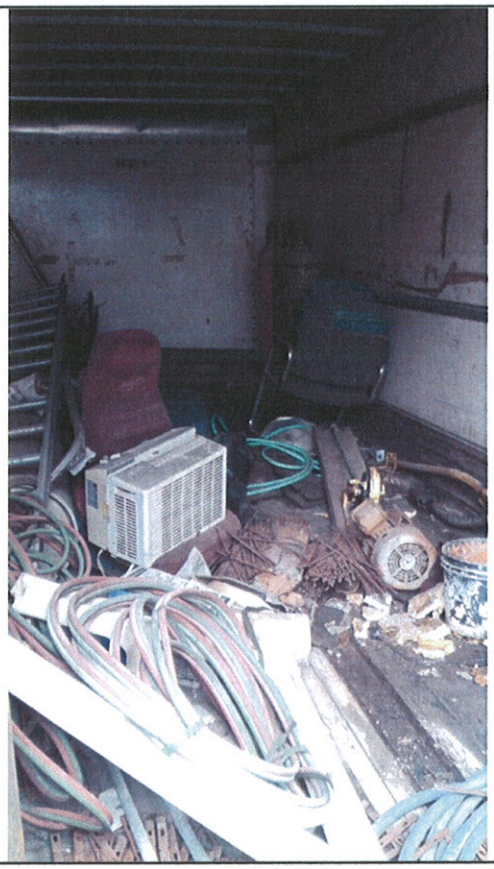
Photograph 3: Typical storage areas

Photograph 4: Typical storage areas

Photograph 5: Typical storage areas

Photograph 6: Ruptured drum situated along the northern property boundary

Photograph 7: Minor surface staining situated beneath truck staged on-site



Photograph 8: Interior portions of the storage container

Photograph 9: Leaking 55-gallon poly drum located within storage container

Photograph 10: Fill layers noted within soil piles

Appendix 4B

Geophysical Investigation Report

DELTA Geophysics Inc.

GEOPHYSICAL INVESTIGATION REPORT

SITE LOCATION:

430-432 Van Burnt Street
Brooklyn, New York

PREPARED FOR:

PT Consultants
629 Creek Road
Bellmawr, New Jersey

PREPARED BY:

Mike Mesaros
Delta Geophysics Inc.
738 Front Street
Catasauqua, PA 18032

February 20, 2015

Delta Geophysics, Inc. (Delta) is pleased to provide the results of the geophysical survey conducted at 430-432 Van Burnt Street, Brooklyn, New York.

1.0 INTRODUCTION

On February 19th, 2015 Delta Geophysics personnel performed a limited geophysical investigation at 430-432 Van Burnt Street, Brooklyn, New York. The area of interest was all accessible areas throughout the property. Subsurface conditions were unknown at the time of survey.

2.0 SCOPE OF WORK

The survey was conducted to investigate the subsurface for anomalies consistent with underground storage tanks (UST). A secondary objective was to locate and mark detectable underground utilities for the property.

3.0 METHODOLOGY

Selection of survey equipment is dependent site conditions and project objectives. For this project the technician utilized the following equipment to survey the area of concern:

- Geophysical Survey Systems Inc. SIR-3000 cart-mounted Ground Penetrating Radar (GPR) unit with a 400 Mhz antenna.
- Radiodetection RD7000 precision utility locator.
- Fisher M-Scope TW-6 pipe and cable locator.

Ground penetrating radar (commonly called GPR) is a geophysical method that has been developed over the past thirty years for shallow, high-resolution, subsurface investigations of the earth. GPR uses high frequency pulsed electromagnetic waves (generally 10 MHz to 1,000 MHz) to acquire subsurface information. Energy is propagated downward into the ground and is reflected back to the surface from boundaries at which there are electrical property contrasts. GPR is a method that is commonly used for environmental, engineering, archeological, and other shallow investigations.

The GSSI SIR-3000 GPR can accept a wide variety of antennas which provide various depths of penetration and levels of resolution. The 400 MHz antenna can achieve depths of penetration up to about 20 feet, but this depth may be greatly reduced due to site-specific conditions. Signal penetration decreases with increased soil conductivity. Conductive materials attenuate or absorb the GPR signal. As depth increases the return signal becomes weaker. Penetration is the greatest in unsaturated sands and fine gravels. Clayey, highly saline or saturated soils, areas covered by steel reinforced concrete, foundry slag, of other highly conductive materials significantly reduces GPR depth of penetration.

The GPR was configured to transmit to a depth of approximately 10 feet below the subsurface, but actual signal penetration terminated at approximately 1-3 feet below ground surface (bgs). The limiting factor was signal attenuation from near surface soils and snowcover.

The RD7000 precision utility locator uses radio emission to trace the location of metal bearing utilities. This radio emission can be active or passive. Active tracing requires the attachment of a

radio transmitter to the utility, passive tracing uses radio emissions that are present on the utility. Underground electrical utilities typically emit radio signals that this device can detect.

The TW-6 is designed to find pipes, cables and other metallic objects such as underground storage tanks. One surveyor can carry both the transmitter and receiver together, making it ideally suited for exploration type searches of ferrous metal masses. Metal detectors of this type operate by generating a magnetic field at the transmitter which causes metallic objects in the subsurface to generate a secondary magnetic field. The induced secondary field is detected by the receiver, which generates an audible tone equal to the strength of the secondary field.

4.0 SURVEY FINDINGS

All accessible areas throughout the property were examined during this investigation. Each location was examined with the RD7000 for potential subsurface utilities then surveyed with GPR and TW-6 for other potential anomalies. Based on the data gathered, no significant metallic anomalies were detected on the subject property.

TW-6 and GPR Survey

Multiple small near surface metallic anomalies were detected throughout accessible areas of the property. Metallic features consisted of steel re-bar, sheet metal, and metal debris. No anomalies consistent with UST's, septic tanks, steel drums, or other large metallic features were detected.

Utility Survey

Delta performed a utility survey across accessible areas of the property. No utilities were detected on the property or in the adjacent sidewalk. No valve covers, manholes, storm grates, or any other surface indicators of nearby utilities were observed.

5.0 SURVEY LIMITATIONS

GPR depth of penetration was limited to approximately 1-3 feet bgs. The limiting factor was due to conductive soils and snowcover. Snowcover also limits visual identification of potential valve covers or manholes which may aid in detecting utilities or potential anomalies. The property contained a large amount of surface obstructions limiting the use of GPR and TW-6. Parked commercial size vehicles, trailers, construction materials, steel re-bar, sheet metal, and miscellaneous metal debris were located on the property. Location of these obstructions varied, however was predominantly around the perimeter of the property.

6.0 WARRANTIES AND DISCLAIMER

As with any geophysical method, it must be stressed that caution be used during any excavation or intrusive testing in proximity to any anomalies indicated in this report. In addition, the absence of detected signatures does not preclude the possibility that targets may exist. To the extent the client desires more definitive conclusions than are warranted by the currently available facts; it is specifically Delta's intent that the conclusions stated herein will be intended as guidance.

This report is based upon the application of scientific principles and professional judgment to certain facts with resultant subjective interpretations. Professional judgments expressed herein are based on the facts currently available within the limit or scope of work, budget and schedule. Delta represents that the services were performed in a manner consistent with currently accepted professional practices employed by geophysical/geological consultants under similar

circumstances. No other representations to Client, express or implied, and no warranty or guarantee is included or intended in this agreement, or in any report, document, or otherwise.

This report was prepared pursuant to the contract Delta has with the Client. That contractual relationship included an exchange of information about the property that was unique and between Delta and its client and serves as the basis upon which this report was prepared. Because of the importance of the understandings between Delta and its client, reliance or any use of this report by anyone other than the Client, for whom it was prepared, is prohibited and therefore not foreseeable to Delta.

Reliance or use by any such third party without explicit authorization in the report does not make said third party a third party beneficiary to Delta's contract with the Client. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at the third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.

Appendix 5

NYCOER Sampling Requirements Email

Dorothy Libring

From: Brad Summerville <bradsummerville@ptconsultantsinc.com>
Sent: Friday, March 13, 2015 2:22 PM
To: dorothylibring@ptconsultantsinc.com
Subject: FW: 430-434 Van Brunt Street - 15EHAZ292K

Brad Summerville, P.E.
PT Consultants, Inc.

From: Brad Summerville [mailto:bradsummerville@ptconsultantsinc.com]
Sent: Thursday, March 12, 2015 1:58 PM
To: andrewgroetsch@ptconsultantsinc.com
Subject: FW: 430-434 Van Brunt Street - 15EHAZ292K

Brad Summerville, P.E.
PT Consultants, Inc.

From: Wong, William [mailto:WiWong@dep.nyc.gov]
Sent: Thursday, February 26, 2015 5:18 PM
To: 'Brad Summerville'
Subject: RE: 430-434 Van Brunt Street - 15EHAZ292K

Hi Brad,

Thank you for the information.

As per my Jan 14, 2015 e-mail, the sampling plan will remain the same. Please see below.

- Six (6) soil boring will be installed with a minimum of 12 soil samples collected from 0 - 2 feet and two feet above groundwater table, and analyzed for VOCs, SVOCs, Metals, Pesticides, and PCBs.
- Three (3) groundwater wells will be installed and 3 groundwater samples will be collected and analyzed for VOCs, SVOCs, Metals (both filtered and unfiltered), Pesticides, and PCBs.
- Five (5) soil vapor probes will be installed below four feet and 5 soil vapor samples will be collected and analyzed for VOCs.

In regards to the sampling map, OER requested that you prepare the sampling location map with information from the GPR survey and include any obstruction noted currently on-site.

Based on the current GPR figure, please include the entire sampling plan on the map and any location that cannot be sampled at this time, will be completed after demolition and after removal of all trucks, trailer, and debris.

Please give me a call if you have any questions.

Regards,

-William Wong

William H. Wong | Senior Project Manager | NYC Office of Environmental Remediation (OER)
100 Gold Street, 2nd Floor | New York, NY 10038
P: 212-341-0659 | C: 917-373-3768 | WiWong@dep.nyc.gov

From: Brad Summerville [mailto:bradsummerville@ptconsultantsinc.com]
Sent: Thursday, February 26, 2015 3:03 PM
To: Wong, William
Subject: RE: 430-434 Van Brunt Street - 15EHAZ292K

William,

We performed the GPR survey of the property last week. I've attached a figure identifying the obstructions while our subcontractor was out there. The client was unable to get the heavy equipment running in the cold weather. Therefore, the trucks could not move the debris that was at the site.

We were only able to scan approximately 50% of the property plus the sidewalk. No subsurface anomalies were identified during the survey. Will the soil boring requirements say the same with the limited GPR?

I don't believe I ever received a copy of the layout that we had agreed upon during our pre-application meeting. Once I receive the layout, I'll begin drafting the Phase II work plan.

Best Regards,

Brad Summerville, P.E.
PT Consultants, Inc.

From: Wong, William [mailto:WiWong@dep.nyc.gov]
Sent: Thursday, January 15, 2015 6:30 PM
To: 'Brad Summerville'
Subject: RE: 430-434 Van Brunt Street - 15EHAZ292K

Hi Brad,

I only received two emails with 5 pictures total.

Any e-mails submitted to OER cannot exceed 8MB due to security.

Regards,

-William Wong

William H. Wong | Senior Project Manager | NYC Office of Environmental Remediation (OER)
100 Gold Street, 2nd Floor | New York, NY 10038
P: 212-341-0659 | C: 917-373-3768 | WiWong@dep.nyc.gov

From: Brad Summerville [mailto:bradsummerville@ptconsultantsinc.com]
Sent: Thursday, January 15, 2015 2:48 PM
To: Wong, William
Subject: FW: 430-434 Van Brunt Street - 15EHAZ292K

This was bounced due to size. I'll send three emails.

Brad Summerville, P.E.
PT Consultants, Inc.

From: Brad Summerville [mailto:bradsummerville@ptconsultantsinc.com]
Sent: Thursday, January 15, 2015 2:27 PM
To: 'Wong, William'
Subject: RE: 430-434 Van Brunt Street - 15EHAZ292K

Will,

I've attached a few pictures from our site visit in July. I've also attached the SPEED reports for both lots. It appears that both lots have the E-designation. Could you please confirm that?

Could you also send me the information for the February 12th meeting? Do I need to register for it?

Best Regards,

Brad Summerville, P.E.
PT Consultants, Inc.

From: Wong, William [mailto:WiWong@dep.nyc.gov]
Sent: Wednesday, January 14, 2015 6:33 PM
To: bradsummerville@ptconsultantsinc.com; paul@strekte.com
Cc: Matthew Carroll (mcarroll@tenen-env.com); Chawla, Shaminder; Schreiber, Zachariah
Subject: 430-434 Van Brunt Street - 15EHAZ292K

Hi Brad, Hi Paul,

RE: 430-434 Van Brunt Street - 15EHAZ292K

Thank you for coming to the Pre-Application Meeting this afternoon. Please see the attached pre-application meeting roster for your records.

Please see below for more information in regards to the current available incentives under the NYC Voluntary Cleanup Program.

- BIG Grants for Cleanup (plus additional grants for sites with an affordable component) – Pending Appropriations
- Hazardous Waste Disposal Fee Waiver – For project which hazardous waste is detected during the remedial investigation work.
- NYC Green Property Certification
- OER Help Mediating / Expediting Petroleum Spills at the Site with DEC.
- State and City Liability Protection
- Cost Savings with the NYC Clean Soil Bank (also possible under the "E" program, but priority is given to VCP sites)
- Lower Oversight Costs with BrownfieldsWorks! (also possible under the "E" program)
- Removal of Hazmat E-Designation if a Track 1 Cleanup is achieved (also possible under the "E" program)

- Possible Federal 198 Tax Deduction (if Congress reinstates the federal brownfield deduction that expired in December 2011)

Based upon our discussion,

- Six (6) soil boring will be installed with a minimum of 12 soil samples collected from 0 - 2 feet and two feet above groundwater table, and analyzed for VOCs, SVOCs, Metals, Pesticides, and PCBs.
- Three (3) groundwater wells will be installed and 3 groundwater samples will be collected and analyzed for VOCs SVOCs, Metals (both filtered and unfiltered), Pesticides, and PCBs.
- Five (5) soil vapor probes will be installed below four feet and 5 soil vapor samples will be collected and analyzed for VOCs.

Moving forward, please complete the following task for submission:

- 'Pre-Application Worksheet': http://www.nyc.gov/html/oer/html/voluntary-cleanup-program/vcp-forms-applications.shtml
- Prepare the sampling location map with information from the GPR survey and include any obstruction noted currently on-site.
- 'Phase II Work Plan – Long form': http://www.nyc.gov/html/oer/html/e-designation/additional-resources.shtml#Templates
- Provide pictures of the current site conditions.
- Provide the DOB Job Numbers.

If you have any questions, please feel free to contact me directly.

Regards,

-William Wong

William H. Wong | Senior Project Manager | NYC Office of Environmental Remediation (OER)
100 Gold Street, 2nd Floor | New York, NY 10038
P: 212-341-0659 | C: 917-373-3768 | WiWong@dep.nyc.gov

APPENDIX 5

FIELD ENGINEER NOTES FROM MAY 7, 2015

Location Van Brunt St. Date 5/7/15

Project / Client 12052

Bob – 80°F Sunny – SI & GW

SB-1

		PID
0"-6"	asphalt debris, gravel	18.6
6"-1'		6.7
1'-1.5		6.4
-2		4.3
-2.5		5.8
-3		6.1
-3.5		6.7
-4		6.4
-4.5	black gravel, fine brown sand	10.4
-5		10.2
-5.5		10.7
-6	fine brown sand	9.6
-6.5		4.3
-7		4.2
-7.5		1.6
-8	GW fine brown saturated sand	1.1
-8.5		0.4
-9		0.6
-9.5		0.4
-10		0.1
-10.5		0.3
-12		0.5

Location Date 5/7/15

Project / Client 12052

SB1-1 @ 9:21 @ 0"-6"
SB1-2 @ 9:26 @ 5.5'-6'

TW-1

DTW- 8.2'
DTB 10.9'

Purging began at 9:58
- purged clear
- Sample taken at 10:10

TW end purge at 10:15

Location

Date 5/7/15

Project / Client 12092-02

SB-2

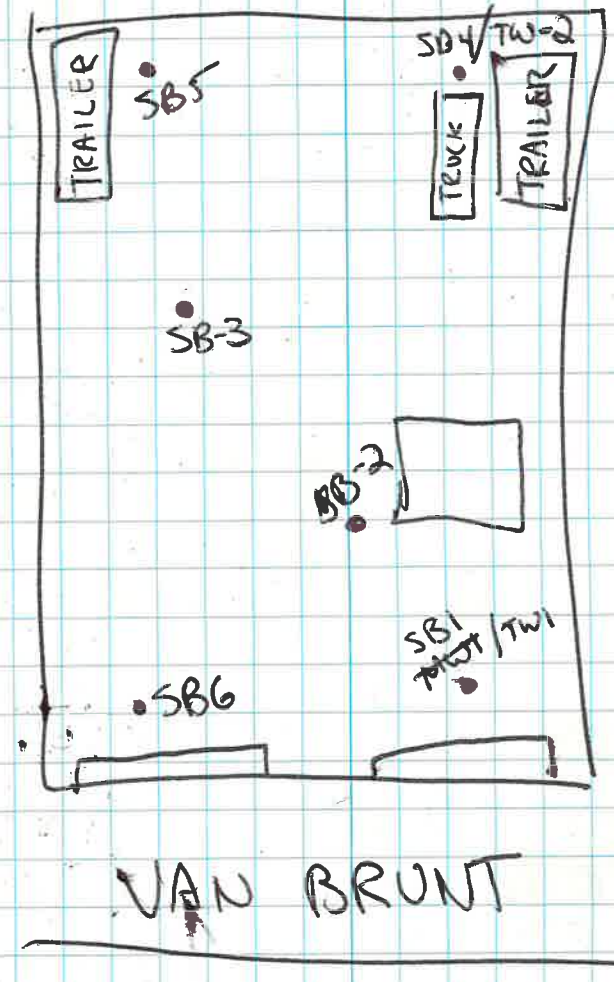
		PID
0"-6"	black gravel, black sand	1.2
-1'		1.1
-1.5		1.0
-2		0.2
-2.5		0.4
-3		0.6
-3.5		0.7
-4		1.1
-4.5	black & brown fine sand	0.3
-5		0.4
-6		1.1
-6.5	fine brown sand	1.1
-7		1.1
-7.5		1.0
-8	GW saturated fine brown sand	0.8

SB2-1 @ 10:30 @ 0"-6"
SB2-2 @ 10:35 @ 6.5-7'

Location

Date 5/7/15

Project / Client 12092-02



Location _____ Date _____

Project / Client _____

SB-~~5~~ 6

		PID
0"-6"	black gravel, brown sand	0.0
-1'		
-1.5		
-2		
-2.5		
-3	fine brown sand	
-3.5		
-4		
-4.5		
-5		
-5.5		
-6		
-6.5		
-7		
-7.5		
-8	GW	

SB6-1 @ 1.5-2' @ 1345
SB6-2 @ 7.5-8 @ 1350

Location _____ Date _____

Project / Client _____

SB-4

		PID
0"-6"	gravel, black silt, black sand	1.0
-1		1.1
-1.5		0.0
-2	dark brown sand, some small gravel	0.0
-2.5		
-3		
-3.5		
-4	fine light brown sand	
-4.5		8.6
-5		8.6
-5.5		6.4
-6		8.1
-6.5		14.1
-7		3.2
-7.5		2.2
-8	GW saturated fine brown sand	2.0

SB4-1 @ .6-1' @ 1109
SB4-2 @ 6-6.5 @ 11:15

Location _____ Date _____

Project / Client _____

TW-2

DTW 8.2
DTB 12.35

Purge began at 1136

~~SB~~ TW2 @ 1145
TW2 Dup @ 1300
Purge end at 1202

TW3
DTW 8.13 DTB 11.61
began purge @ 1400
- very slow purge
TW3 @ 1435

FB @ 1410 using DI water
with liner.

Location _____ Date _____

Project / Client _____

SB5

		PID
0"-6"	black topsoil, silty sand	0.6
-1		
-1.5	grey concrete gravel	
-2	dark brn sand	
-2.5		
-3	blk fine gravel (coal)	
-3.5	fine lt brn sand	
-4		0.8
-4.5		0.8
-5		0.7
-5.5		0.6
-6		
-6.5		
-7		
-7.5		0.8
-8	saturated fine brn sand	0.8

SB5-1 @ 0-0.5 ft 1146
SB5-2 @ 7-7.5 ft 1151
SB5-2 Dup @ 7-7.5 ft 1157

Location _____ Date _____

Project / Client _____

SB 3

		PID
0"-6"	gravel, black crushed asphalt	1.0
-1	red brick	1.1
-1.5		1.3
-2		1.6
-2.5		0.8
-3	black + brown fine sand	0.4
-3.5		1.3
-4		1.0
-4.5		1.1
-5	brown clay	1.0
-5.5		1.4
-6	fine brown sand	1.8
-6.5		2.1
-7		1.4
-7.5		0.3
-8		0.3

SB3-1 @ 1.5-2' @ 1322
SB3-2 @ 6-6.5' @ 1330

Location _____ Date _____

Project / Client _____

APPENDIX 6

SOIL VAPOR SAMPLING LOG

COMPENDIUM METHOD TO-15
CANISTER SAMPLING FIELD TEST DATA SHEET

A.GENERAL INFORMATION

SITE LOCATION: Brooklyn, NY
SITE ADDRESS: 430 Van Brunt St
SAMPLING DATE: 5/7/2015

SHIPPING DATE: 5/7/2015
CANISTER SERIAL NO.: 14827 / FC119
SAMPLER ID: SV-1
OPERATOR: Dorothy Libring
CANISTER LEAK CHECK DATE:

B. SAMPLING INFORMATION

TEMPERATURE

	INTERIOR	AMBIENT	MAXIMUM	MINIMUM
START				
STOP				

PRESSURE

CANISTER PRESSURE	
	30" Hg
	7 0

SAMPLING TIMES

	LOCAL TIME	ELAPSED TIME METER READING
START	1021	
STOP	1222	

FLOW RATES

MANIFOLD FLOW RATE	CANISTER FLOW RATE	FLOW CONTROLLER READOUT
	0.2 L/min	

SAMPLING SYSTEM CERTIFICATION DATE: 5/5/15
QUARTERLY RECERTIFICATION DATE:

C. LABORATORY INFORMATION

DATA RECEIVED:
RECEIVED BY:
INITIAL PRESSURE:
FINAL PRESSURE:
DILUTION FACTOR:
ANALYSIS
GC-FID-ECD DATE:
GC-MSD-SCAN DATE:
GC-MSD-SIM DATE:
RESULTS*:

GC-FID-ECD:
GC-MSD-SCAN:
GC-MSD-SIM:

Dorothy Libring
SIGNATURE/TITLE

Figure 9. Canister sampling field test data sheet (FTDS).

COMPENDIUM METHOD TO-15
CANISTER SAMPLING FIELD TEST DATA SHEET

A. GENERAL INFORMATION

SITE LOCATION: Brooklyn, NY
SITE ADDRESS: 930 Van Brunt St
SAMPLING DATE: 5/7/2015

SHIPPING DATE: 5/7/2015
CANISTER SERIAL NO.: A089 / FC442
SAMPLER ID: SV-2
OPERATOR: Dorothy Libering
CANISTER LEAK CHECK DATE:

B. SAMPLING INFORMATION

TEMPERATURE

	INTERIOR	AMBIENT	MAXIMUM	MINIMUM
START				
STOP				

PRESSURE

CANISTER PRESSURE	
	30" Hg
	0

SAMPLING TIMES

	LOCAL TIME	ELAPSED TIME METER READING
START	1052	
STOP	1253	

FLOW RATES

MANIFOLD FLOW RATE	CANISTER FLOW RATE	FLOW CONTROLLER READOUT
	0.2 L/min	

SAMPLING SYSTEM CERTIFICATION DATE: 5/5/15
QUARTERLY RECERTIFICATION DATE:

C. LABORATORY INFORMATION

DATA RECEIVED:
RECEIVED BY:
INITIAL PRESSURE:
FINAL PRESSURE:
DILUTION FACTOR:
ANALYSIS
GC-FID-ECD DATE:
GC-MSD-SCAN DATE:
GC-MSD-SIM DATE:
RESULTS*:

GC-FID-ECD:
GC-MSD-SCAN:
GC-MSD-SIM:

Dorothy Libering
SIGNATURE/TITLE

Figure 9. Canister sampling field test data sheet (FTDS).

COMPENDIUM METHOD TO-15
CANISTER SAMPLING FIELD TEST DATA SHEET

A.GENERAL INFORMATION

SITE LOCATION: Brooklyn, NY
SITE ADDRESS: 430 Van Brunt St

SAMPLING DATE: 5/7/2015

SHIPPING DATE: 5/7/2015
CANISTER SERIAL NO.: A1021 / FC366
SAMPLER ID: SV-3
OPERATOR: Dorothy Libong
CANISTER LEAK CHECK DATE:

B. SAMPLING INFORMATION

TEMPERATURE

	INTERIOR	AMBIENT	MAXIMUM	MINIMUM
START				
STOP				

PRESSURE

CANISTER PRESSURE	
	30

SAMPLING TIMES

	LOCAL TIME	ELAPSED TIME METER READING
START	1112	
STOP		

FLOW RATES

MANIFOLD FLOW RATE	CANISTER FLOW RATE	FLOW CONTROLLER READOUT
	0.2L/min	

SAMPLING SYSTEM CERTIFICATION DATE: 5/5/15
QUARTERLY RECERTIFICATION DATE:

C. LABORATORY INFORMATION

DATA RECEIVED:
RECEIVED BY:
INITIAL PRESSURE:
FINAL PRESSURE:
DILUTION FACTOR:
ANALYSIS
GC-FID-ECD DATE:
GC-MSD-SCAN DATE:
GC-MSD-SIM DATE:
RESULTS*:

GC-FID-ECD:
GC-MSD-SCAN:
GC-MSD-SIM:

D Libong
SIGNATURE/TITLE

Figure 9. Canister sampling field test data sheet (FTDS).

COMPENDIUM METHOD TO-15
CANISTER SAMPLING FIELD TEST DATA SHEET

A.GENERAL INFORMATION

SITE LOCATION: Brooklyn, NY
SITE ADDRESS: 430 Van Brunt St

SAMPLING DATE: 5/7/2015

SHIPPING DATE: 5/7/2015
CANISTER SERIAL NO.: A463/FC676
SAMPLER ID: SV-4
OPERATOR: Dorothy Libong
CANISTER LEAK CHECK DATE:

B. SAMPLING INFORMATION

TEMPERATURE

	INTERIOR	AMBIENT	MAXIMUM	MINIMUM
START				
STOP				

PRESSURE

CANISTER PRESSURE	
	30

SAMPLING TIMES

	LOCAL TIME	ELAPSED TIME METER READING
START	1331	
STOP		

FLOW RATES

MANIFOLD FLOW RATE	CANISTER FLOW RATE	FLOW CONTROLLER READOUT
	0.2 L/min	

SAMPLING SYSTEM CERTIFICATION DATE: 5/5/15
QUARTERLY RECERTIFICATION DATE:

C. LABORATORY INFORMATION

DATA RECEIVED:
RECEIVED BY:
INITIAL PRESSURE:
FINAL PRESSURE:
DILUTION FACTOR:
ANALYSIS
GC-FID-ECD DATE:
GC-MSD-SCAN DATE:
GC-MSD-SIM DATE:
RESULTS*:

GC-FID-ECD:
GC-MSD-SCAN:
GC-MSD-SIM:

SIGNATURE/TITLE

Figure 9. Canister sampling field test data sheet (FTDS).

COMPENDIUM METHOD TO-15
CANISTER SAMPLING FIELD TEST DATA SHEET

A.GENERAL INFORMATION

SITE LOCATION: Brooklyn, NY
SITE ADDRESS: 430 Van Brunt St
SAMPLING DATE: 5/7/2015

SHIPPING DATE: 5/7/2015
CANISTER SERIAL NO.: A647/FC365
SAMPLER ID: SV-5
OPERATOR: Dorothy Libong
CANISTER LEAK CHECK DATE:

B. SAMPLING INFORMATION

TEMPERATURE

	INTERIOR	AMBIENT	MAXIMUM	MINIMUM
START				
STOP				

PRESSURE

CANISTER PRESSURE	
	30

SAMPLING TIMES

	LOCAL TIME	ELAPSED TIME METER READING
START	1353	
STOP		

FLOW RATES

MANIFOLD FLOW RATE	CANISTER FLOW RATE	FLOW CONTROLLER READOUT
	0.2 L/min	

SAMPLING SYSTEM CERTIFICATION DATE: 5/5/15
QUARTERLY RECERTIFICATION DATE:

C. LABORATORY INFORMATION

DATA RECEIVED:
RECEIVED BY:
INITIAL PRESSURE:
FINAL PRESSURE:
DILUTION FACTOR:
ANALYSIS
GC-FID-ECD DATE:
GC-MSD-SCAN DATE:
GC-MSD-SIM DATE:
RESULTS*:

GC-FID-ECD:
GC-MSD-SCAN:
GC-MSD-SIM:

SIGNATURE/TITLE

Figure 9. Canister sampling field test data sheet (FTDS).

APPENDIX 7

LABORATORY DATA DELIVERABLES FOR SOIL AND GROUNDWATER ANALYTICAL DATA

New Jersey
ACCUTEST LABORATORIES

05/18/15

Technical Report for

PT Consultants

12090-02 430 Van Brunt Street, Brooklyn, NY

Accutest Job Number: JB94209

Sampling Date: 05/07/15

Report to:

PT Consultants
629 Creek Road
Bellmawr, NJ 08031
bradsummerville@ptconsultantsinc.com

ATTN: Brad Summerville

Total number of pages in report: **1419**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Kelly Patterson 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

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Sections: 1 2 3 4 5 6 7 8 9 10 11 12 13

Table of Contents

-1-

Section 1: Sample Summary **4**
Section 2: Case Narrative/Conformance Summary **6**
Section 3: Summary of Hits **10**
Section 4: Sample Results **23**
4.1: JB94209-1: SB1-1 24
4.2: JB94209-2: SB1-2 33
4.3: JB94209-3: SB2-1 41
4.4: JB94209-4: SB2-2 50
4.5: JB94209-5: SB3-1 58
4.6: JB94209-6: SB3-2 66
4.7: JB94209-7: SB4-1 74
4.8: JB94209-8: SB4-2 82
4.9: JB94209-9: SB5-1 90
4.10: JB94209-10: SB5-2 98
4.11: JB94209-11: SB6-1 106
4.12: JB94209-12: SB6-2 114
4.13: JB94209-13: TW-1 122
4.14: JB94209-14: TW-2 130
4.15: JB94209-15: TW-3 138
4.16: JB94209-16: TW2-DUP 146
4.17: JB94209-17: FB 154
4.18: JB94209-18: SB5-2 DUP 160
Section 5: Misc. Forms **168**
5.1: Chain of Custody 169
5.2: Sample Tracking Chronicle 174
5.3: Internal Chain of Custody 180
Section 6: GC/MS Volatiles - QC Data Summaries **206**
6.1: Method Blank Summary 207
6.2: Blank Spike Summary 219
6.3: Matrix Spike/Matrix Spike Duplicate Summary 231
6.4: Instrument Performance Checks (BFB) 243
6.5: Internal Standard Area Summaries 252
6.6: Surrogate Recovery Summaries 258
6.7: Initial and Continuing Calibration Summaries 261
Section 7: GC/MS Volatiles - Raw Data **304**
7.1: Samples 305
7.2: Method Blanks 469
Section 8: GC/MS Semi-volatiles - QC Data Summaries **511**
8.1: Method Blank Summary 512
8.2: Blank Spike Summary 518
8.3: Matrix Spike/Matrix Spike Duplicate Summary 524
8.4: Instrument Performance Checks (DFTPP) 530

Table of Contents

8.5: Internal Standard Area Summaries 541
8.6: Surrogate Recovery Summaries 544
8.7: Initial and Continuing Calibration Summaries 546
Section 9: GC/MS Semi-volatiles - Raw Data 584
9.1: Samples 585
9.2: Method Blanks 1013
Section 10: GC Semi-volatiles - QC Data Summaries 1032
10.1: Method Blank Summary 1033
10.2: Blank Spike Summary 1038
10.3: Blank Spike/Blank Spike Duplicate Summary 1041
10.4: Matrix Spike/Matrix Spike Duplicate Summary 1042
10.5: Internal Standard Area Summaries 1045
10.6: DDT/Endrin Breakdown Checks 1050
10.7: Surrogate Recovery Summaries 1059
10.8: GC Surrogate Retention Time Summaries 1063
10.9: Initial and Continuing Calibration Summaries 1074
Section 11: GC Semi-volatiles - Raw Data 1159
11.1: Samples 1160
11.2: Method Blanks 1236
11.3: Reference Chromatograms 1246
Section 12: Metals Analysis - QC Data Summaries 1274
12.1: Inst QC MA36627: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag, Na,Tl,V,Zn 1275
12.2: Inst QC MA36628: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag, Na,Tl,V,Zn 1293
12.3: Inst QC MA36629: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag, Na,Tl,V,Zn 1327
12.4: Inst QC MA36632: Hg 1371
12.5: Inst QC MA36633: Hg 1378
12.6: Prep QC MP86343: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag, Na,Tl,V,Zn 1388
12.7: Prep QC MP86349: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag, Na,Tl,V,Zn 1398
12.8: Prep QC MP86397: Hg 1408
12.9: Prep QC MP86398: Hg 1412
Section 13: General Chemistry - QC Data Summaries 1416
13.1: Percent Solids Raw Data Summary 1417

Sample Summary

PT Consultants

12090-02 430 Van Brunt Street, Brooklyn, NY

Job No: JB94209

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB94209-1	05/07/15	09:21	BD	05/07/15	SO	Soil	SB1-1
JB94209-2	05/07/15	09:26	BD	05/07/15	SO	Soil	SB1-2
JB94209-3	05/07/15	10:30	BD	05/07/15	SO	Soil	SB2-1
JB94209-4	05/07/15	10:35	BD	05/07/15	SO	Soil	SB2-2
JB94209-5	05/07/15	13:22	BD	05/07/15	SO	Soil	SB3-1
JB94209-6	05/07/15	13:30	BD	05/07/15	SO	Soil	SB3-2
JB94209-7	05/07/15	11:09	BD	05/07/15	SO	Soil	SB4-1
JB94209-8	05/07/15	11:15	BD	05/07/15	SO	Soil	SB4-2
JB94209-9	05/07/15	11:46	BD	05/07/15	SO	Soil	SB5-1
JB94209-10	05/07/15	11:51	BD	05/07/15	SO	Soil	SB5-2
JB94209-11	05/07/15	13:45	BD	05/07/15	SO	Soil	SB6-1
JB94209-12	05/07/15	13:50	BD	05/07/15	SO	Soil	SB6-2
JB94209-13	05/07/15	10:10	BD	05/07/15	AQ	Ground Water	TW-1

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

PT Consultants

Job No: JB94209

12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB94209-13F	05/07/15	10:10	BD	05/07/15	AQ	Groundwater Filtered	TW-1
JB94209-14	05/07/15	11:45	BD	05/07/15	AQ	Ground Water	TW-2
JB94209-14F	05/07/15	11:45	BD	05/07/15	AQ	Groundwater Filtered	TW-2
JB94209-15	05/07/15	12:35	BD	05/07/15	AQ	Ground Water	TW-3
JB94209-15F	05/07/15	12:35	BD	05/07/15	AQ	Groundwater Filtered	TW-3
JB94209-16	05/07/15	13:00	BD	05/07/15	AQ	Ground Water	TW2-DUP
JB94209-16F	05/07/15	13:00	BD	05/07/15	AQ	Groundwater Filtered	TW2-DUP
JB94209-17	05/07/15	16:10	BD	05/07/15	AQ	Field Blank Water	FB
JB94209-17F	05/07/15	16:10	BD	05/07/15	AQ	Field Blank Filtered	FB
JB94209-18	05/07/15	11:57	BD	05/07/15	SO	Soil	SB5-2 DUP

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	PT Consultants	**Job No**	JB94209
Site:	12090-02 430 Van Brunt Street, Brooklyn, NY	**Report Date**	5/18/2015 2:52:21 PM

On 05/07/2015, 17 Sample(s), 0 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 1.8 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB94209 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** V2D6061

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB94104-3MS, JB94104-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: SO **Batch ID:** V3C5467

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB94209-12MS, JB94209-12MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** VI8194

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB94209-1MS, JB94209-1MSD were used as the QC samples indicated.
- RPD(s) for MSD for 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene are outside control limits for sample JB94209-1MSD.
- JB94209-1MSD for 1,2,4-Trichlorobenzene: Outside control limits due to matrix interference. Confirmed by reanalysis.
- JB94209-1MSD for 1,2-Dichlorobenzene: Outside control limits due to matrix interference. Confirmed by reanalysis.

Matrix: SO **Batch ID:** VI8195

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB94209-2MS, JB94209-2MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for Bromoform, Freon 113, Trichlorofluoromethane are outside control limits.
- VI8195-BS for Bromoform: High percent recoveries and no associated positive reported in the QC batch.
- VI8195-BS for Freon 113: High percent recoveries and no associated positive reported in the QC batch.
- VI8195-BS for Trichlorofluoromethane: High percent recoveries and no associated positive reported in the QC batch.

Matrix: SO **Batch ID:** VI8196

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB94209-9MS, JB94209-9MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for Bromoform are outside control limits.

Volatiles by GCMS By Method SW846 8260C

Matrix: SO **Batch ID:** VI8196

- Matrix Spike Recovery(s) for 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dibromoethane, 1,2-Dichlorobenzene, 1,2-Dichloroethane, 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Bromodichloromethane, Chlorobenzene, cis-1,3-Dichloropropene, Dibromochloromethane, o-Xylene, Styrene, trans-1,3-Dichloropropene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, Chlorobenzene, Styrene, trans-1,3-Dichloropropene, 1,4-Dichlorobenzene are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MSD for 1,4-Dichlorobenzene, Chloromethane are outside control limits for sample JB94209-9MSD. Outside control limits due to matrix interference.
- VI8196-BS for Bromoform: High percent recoveries and no associated positive reported in the QC batch.

Matrix: SO **Batch ID:** VI8197

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB94209-18MS, JB94209-18MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Bromochloromethane, Bromoform, Dibromochloromethane are outside control limits.
- Matrix Spike Duplicate Recovery(s) for Methyl Acetate are outside control limits. Probable cause due to matrix interference.
- VI8197-BS for Bromoform: High percent recoveries and no associated positive reported in the QC batch.
- VI8197-BS for Bromochloromethane: High percent recoveries and no associated positive reported in the QC batch.
- VI8197-BS for Dibromochloromethane: High percent recoveries and no associated positive reported in the QC batch.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP83797

- All samples were extracted within the recommended method holding time.
- Sample(s) JB94209-13MS, JB94209-13MSD were used as the QC samples indicated.
- Sample(s) JB94209-13, JB94209-15, JB94209-16 have compound(s) reported with a “B” qualifier, indicating analyte is found in the associated method blank.
- RPD(s) for MSD for 2,3,4,6-Tetrachlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2-Chlorophenol, 2-Methylphenol, 2-Nitrophenol, 3&4-Methylphenol, 4,6-Dinitro-o-cresol, 4-Bromophenyl phenyl ether, 4-Chloro-3-methyl phenol, 4-Nitrophenol, Acetophenone, bis(2-Chloroethoxy)methane, bis(2-Chloroethyl)ether, bis(2-Chloroisopropyl)ether, Hexachlorobenzene, Hexachloroethane, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenol are outside control limits for sample OP83797-MSD. Analytical precision exceeds in-house control limits.

Matrix: SO **Batch ID:** OP83787

- All samples were extracted within the recommended method holding time.
- Sample(s) JB94209-1MS, JB94209-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Benzaldehyde are outside control limits.
- Matrix Spike Recovery(s) for 2,4-Dinitrophenol, 3,3'-Dichlorobenzidine, 4,6-Dinitro-o-cresol, 4-Chloroaniline, 4-Nitroaniline, Dibenzo(a,h)anthracene, Hexachlorocyclopentadiene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 2,4-Dinitrophenol, 4-Chloroaniline, Hexachlorocyclopentadiene, 3,3'-Dichlorobenzidine are outside control limits. Probable cause due to matrix interference.
- RPD(s) for MSD for 2,4-Dimethylphenol, 3,3'-Dichlorobenzidine are outside control limits for sample OP83787-MSD. Analytical precision exceeds in-house control limits.
- JB94209-9: Elevated detection limit due to high final volume of viscous extract.
- OP83787-BS1 for Benzaldehyde: Outside of in-house control limits.

Extractables by GC By Method SW846 8081B

Matrix: AQ	**Batch ID:** OP83792

- All samples were extracted within the recommended method holding time.
- Sample(s) JB94209-13MS, JB94209-13MSD, OP83792-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: SO	**Batch ID:** OP83920

- All samples were extracted within the recommended method holding time.
- Sample(s) JB94209-18MS, JB94209-18MSD, OP83920-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JB94209-3 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JB94209-3 for alpha-BHC: More than 40 % RPD for detected concentrations between the two GC columns.
- JB94209-3 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JB94209-5 for Heptachlor epoxide: More than 40 % RPD for detected concentrations between the two GC columns.
- JB94209-5 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JB94209-7 for 4,4'-DDD: More than 40 % RPD for detected concentrations between the two GC columns.
- JB94209-9 for 4,4'-DDT: More than 40 % RPD for detected concentrations between the two GC columns.
- JB94209-9 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JB94209-3 for Decachlorobiphenyl: Outside control limits due to dilution.
- JB94209-3 for Tetrachloro-m-xylene: Outside control limits due to dilution.
- JB94209-11 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JB94209-3 for Methoxychlor: More than 40 % RPD for detected concentrations between the two GC columns.
- JB94209-9 for 4,4'-DDD: More than 40 % RPD for detected concentrations between the two GC columns.

Extractables by GC By Method SW846 8082A

Matrix: AQ	**Batch ID:** OP83793

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix: SO	**Batch ID:** OP83802

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB94209-1MS, JB94209-1MSD, OP83802-MSMSD were used as the QC samples indicated.
- JB94209-9 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JB94209-11 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JB94209-3 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JB94209-5 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- OP83802-BS1 for Aroclor 1016: Reported from 1st signal. %D of end check calibration on 2nd signal exceed method criteria (20%) so using for confirmation only.
- JB94209-18 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- OP83802-BS1 for Aroclor 1260: Reported from 1st signal. %D of end check calibration on 2nd signal exceed method criteria (20%) so using for confirmation only.

Metals By Method SW846 6010C

Matrix: AQ	**Batch ID:** MP86343

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB94170-4MS, JB94170-4MSD, JB94170-4SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic, Cadmium, Chromium, Cobalt, Copper, Lead, Silver, Vanadium, Zinc are outside control limits for sample MP86343-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP86343-SD1 for Aluminum: Serial dilution indicates possible matrix interference.

Matrix: SO	**Batch ID:** MP86349

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB93689-1MS, JB93689-1MSD, JB93689-1SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Aluminum, Calcium, Magnesium, Zinc are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Aluminum, Calcium, Magnesium, Zinc are outside control limits. Probable cause due to matrix interference.
- RPD(s) for MSD for Calcium, Magnesium, Zinc are outside control limits for sample MP86349-S2. High rpd due to possible sample nonhomogeneity.
- RPD(s) for Serial Dilution for Antimony, Silver are outside control limits for sample MP86349-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals By Method SW846 7470A

Matrix: AQ	**Batch ID:** MP86398

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB94209-13MS, JB94209-13MSD were used as the QC samples for metals.

Metals By Method SW846 7471B

Matrix: SO	**Batch ID:** MP86397

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB94209-2MS, JB94209-2MSD were used as the QC samples for metals.

Wet Chemistry By Method SM2540 G-97

Matrix: SO	**Batch ID:** GN24964

- The data for SM2540 G-97 meets quality control requirements.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JB94209
Account: PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Collected: 05/07/15

3

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB94209-1	**SB1-1**					
Ethylbenzene		0.41 J	1.1	0.19	ug/kg	SW846 8260C
Isopropylbenzene		0.58 J	2.3	0.12	ug/kg	SW846 8260C
m,p-Xylene		2.7	1.1	0.40	ug/kg	SW846 8260C
o-Xylene		4.0	1.1	0.31	ug/kg	SW846 8260C
Xylene (total)		6.7	1.1	0.31	ug/kg	SW846 8260C
Total TIC, Volatile		914 J			ug/kg	
3&4-Methylphenol		213	75	48	ug/kg	SW846 8270D
Phenol		190	75	40	ug/kg	SW846 8270D
Acenaphthylene		44.5	38	12	ug/kg	SW846 8270D
Acetophenone		76.7 J	190	6.6	ug/kg	SW846 8270D
Benzo(b)fluoranthene		17.3 J	38	13	ug/kg	SW846 8270D
1,1'-Biphenyl		48.2 J	75	4.4	ug/kg	SW846 8270D
2-Chloronaphthalene		148	75	12	ug/kg	SW846 8270D
Chrysene		19.8 J	38	13	ug/kg	SW846 8270D
Fluoranthene		48.0	38	17	ug/kg	SW846 8270D
2-Methylnaphthalene		35.2 J	75	21	ug/kg	SW846 8270D
Naphthalene		387	38	10	ug/kg	SW846 8270D
Phenanthrene		89.6	38	17	ug/kg	SW846 8270D
Pyrene		41.1	38	14	ug/kg	SW846 8270D
Total TIC, Semi-Volatile		3680 J			ug/kg	
Aluminum		3370	54		mg/kg	SW846 6010C
Arsenic		5.1	2.2		mg/kg	SW846 6010C
Barium		47.9	22		mg/kg	SW846 6010C
Beryllium		0.26	0.22		mg/kg	SW846 6010C
Cadmium		0.69	0.54		mg/kg	SW846 6010C
Calcium		4900	540		mg/kg	SW846 6010C
Chromium		11.4	1.1		mg/kg	SW846 6010C
Copper		40.2	2.7		mg/kg	SW846 6010C
Iron		8310	54		mg/kg	SW846 6010C
Lead		198	2.2		mg/kg	SW846 6010C
Magnesium		3380	540		mg/kg	SW846 6010C
Manganese		141	1.6		mg/kg	SW846 6010C
Mercury		0.35	0.036		mg/kg	SW846 7471B
Nickel		15.7	4.4		mg/kg	SW846 6010C
Vanadium		11.0	5.4		mg/kg	SW846 6010C
Zinc		702	5.4		mg/kg	SW846 6010C
JB94209-2	**SB1-2**					
Acetone		13.0	12	2.7	ug/kg	SW846 8260C
Total TIC, Semi-Volatile		430 J			ug/kg	
Aluminum		5240	57		mg/kg	SW846 6010C
Arsenic		5.3	2.3		mg/kg	SW846 6010C

Summary of Hits

Job Number: JB94209
Account: PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Collected: 05/07/15

3

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Barium	30.0	23		mg/kg	SW846 6010C
Beryllium	0.38	0.23		mg/kg	SW846 6010C
Chromium	22.5	1.1		mg/kg	SW846 6010C
Cobalt	11.7	5.7		mg/kg	SW846 6010C
Copper	14.7	2.9		mg/kg	SW846 6010C
Iron	18700	57		mg/kg	SW846 6010C
Lead	49.6	2.3		mg/kg	SW846 6010C
Magnesium	2230	570		mg/kg	SW846 6010C
Manganese	422	1.7		mg/kg	SW846 6010C
Mercury	0.037	0.037		mg/kg	SW846 7471B
Nickel	74.3	4.6		mg/kg	SW846 6010C
Vanadium	17.4	5.7		mg/kg	SW846 6010C
Zinc	154	5.7		mg/kg	SW846 6010C
JB94209-3 SB2-1					
Acenaphthene	574	39	11	ug/kg	SW846 8270D
Acenaphthylene	1560	39	12	ug/kg	SW846 8270D
Anthracene	2790	39	14	ug/kg	SW846 8270D
Benzo(a)anthracene	9980	390	130	ug/kg	SW846 8270D
Benzo(a)pyrene	8200	390	120	ug/kg	SW846 8270D
Benzo(b)fluoranthene	10200	390	130	ug/kg	SW846 8270D
Benzo(g,h,i)perylene	3810	390	150	ug/kg	SW846 8270D
Benzo(k)fluoranthene	2500	39	15	ug/kg	SW846 8270D
1,1'-Biphenyl	48.3 J	78	4.5	ug/kg	SW846 8270D
Carbazole	1150	78	18	ug/kg	SW846 8270D
Chrysene	10400	390	130	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene	1950	39	13	ug/kg	SW846 8270D
Dibenzofuran	461	78	12	ug/kg	SW846 8270D
Di-n-butyl phthalate	80.8	78	8.7	ug/kg	SW846 8270D
Fluoranthene	18000	390	170	ug/kg	SW846 8270D
Fluorene	742	39	13	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	3550	390	140	ug/kg	SW846 8270D
2-Methylnaphthalene	178	78	22	ug/kg	SW846 8270D
Naphthalene	388	39	11	ug/kg	SW846 8270D
Phenanthrene	12200	390	180	ug/kg	SW846 8270D
Pyrene	20800	390	150	ug/kg	SW846 8270D
Total TIC, Semi-Volatile	41900 J			ug/kg	
alpha-BHC [a]	1.4	0.78	0.23	ug/kg	SW846 8081B
delta-BHC	2.3	0.78	0.38	ug/kg	SW846 8081B
alpha-Chlordane [a]	15.8	0.78	0.29	ug/kg	SW846 8081B
gamma-Chlordane	15.3	0.78	0.54	ug/kg	SW846 8081B
Dieldrin	13.5	0.78	0.30	ug/kg	SW846 8081B
4,4'-DDD	343	78	42	ug/kg	SW846 8081B
4,4'-DDE	693	78	31	ug/kg	SW846 8081B

Summary of Hits

Job Number: JB94209
Account: PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Collected: 05/07/15

3

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
4,4'-DDT		3030	78	38	ug/kg	SW846 8081B
Methoxychlor [a]		26.3	1.6	0.76	ug/kg	SW846 8081B
Aluminum		6230	59		mg/kg	SW846 6010C
Arsenic		5.8	2.4		mg/kg	SW846 6010C
Barium		56.6	24		mg/kg	SW846 6010C
Beryllium		0.51	0.24		mg/kg	SW846 6010C
Calcium		1980	590		mg/kg	SW846 6010C
Chromium		13.9	1.2		mg/kg	SW846 6010C
Cobalt		7.2	5.9		mg/kg	SW846 6010C
Copper		32.0	2.9		mg/kg	SW846 6010C
Iron		13300	59		mg/kg	SW846 6010C
Lead		117	2.4		mg/kg	SW846 6010C
Magnesium		3660	590		mg/kg	SW846 6010C
Manganese		372	1.8		mg/kg	SW846 6010C
Mercury		0.42	0.037		mg/kg	SW846 7471B
Nickel		42.8	4.7		mg/kg	SW846 6010C
Vanadium		18.2	5.9		mg/kg	SW846 6010C
Zinc		535	5.9		mg/kg	SW846 6010C
JB94209-4	**SB2-2**					
Aluminum		4990	57		mg/kg	SW846 6010C
Arsenic		5.3	2.3		mg/kg	SW846 6010C
Barium		29.3	23		mg/kg	SW846 6010C
Beryllium		0.35	0.23		mg/kg	SW846 6010C
Calcium		10800	570		mg/kg	SW846 6010C
Chromium		10.4	1.1		mg/kg	SW846 6010C
Copper		18.9	2.9		mg/kg	SW846 6010C
Iron		12200	57		mg/kg	SW846 6010C
Lead		28.0	2.3		mg/kg	SW846 6010C
Magnesium		6970	570		mg/kg	SW846 6010C
Manganese		96.4	1.7		mg/kg	SW846 6010C
Mercury		0.038	0.037		mg/kg	SW846 7471B
Nickel		20.9	4.6		mg/kg	SW846 6010C
Vanadium		15.0	5.7		mg/kg	SW846 6010C
Zinc		256	5.7		mg/kg	SW846 6010C
JB94209-5	**SB3-1**					
Acetone		123	11	2.6	ug/kg	SW846 8260C
2-Butanone (MEK)		16.9	11	2.2	ug/kg	SW846 8260C
Carbon disulfide		1.7 J	2.3	0.26	ug/kg	SW846 8260C
Total TIC, Volatile		13 J			ug/kg	
Acenaphthene		1630	38	11	ug/kg	SW846 8270D
Acenaphthylene		365	38	12	ug/kg	SW846 8270D

Summary of Hits

Job Number: JB94209
Account: PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Collected: 05/07/15

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Anthracene	4290	380	130	ug/kg	SW846 8270D
Benzo(a)anthracene	10600	380	120	ug/kg	SW846 8270D
Benzo(a)pyrene	8700	380	110	ug/kg	SW846 8270D
Benzo(b)fluoranthene	11100	380	130	ug/kg	SW846 8270D
Benzo(g,h,i)perylene	4670	380	140	ug/kg	SW846 8270D
Benzo(k)fluoranthene	2690	38	14	ug/kg	SW846 8270D
1,1'-Biphenyl	140	75	4.4	ug/kg	SW846 8270D
Benzaldehyde	32.2 J	190	8.6	ug/kg	SW846 8270D
Carbazole	1970	75	17	ug/kg	SW846 8270D
Chrysene	10200	380	130	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene	1810	38	13	ug/kg	SW846 8270D
Dibenzofuran	1150	75	11	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate	191	75	33	ug/kg	SW846 8270D
Fluoranthene	23400	380	170	ug/kg	SW846 8270D
Fluorene	1860	38	12	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	4350	380	130	ug/kg	SW846 8270D
2-Methylnaphthalene	471	75	21	ug/kg	SW846 8270D
Naphthalene	1120	38	10	ug/kg	SW846 8270D
Phenanthrene	21600	380	170	ug/kg	SW846 8270D
Pyrene	23600	380	140	ug/kg	SW846 8270D
Total TIC, Semi-Volatile	23790 J			ug/kg	
alpha-Chlordane	131	3.5	1.3	ug/kg	SW846 8081B
gamma-Chlordane	98.3	3.5	2.4	ug/kg	SW846 8081B
4,4'-DDD	17.8	0.70	0.38	ug/kg	SW846 8081B
4,4'-DDE	4.9	0.70	0.28	ug/kg	SW846 8081B
4,4'-DDT	10.8	0.70	0.35	ug/kg	SW846 8081B
Heptachlor epoxide [a]	2.3	0.70	0.26	ug/kg	SW846 8081B
Aluminum	10100	55		mg/kg	SW846 6010C
Arsenic	8.5	2.2		mg/kg	SW846 6010C
Barium	146	22		mg/kg	SW846 6010C
Beryllium	0.59	0.22		mg/kg	SW846 6010C
Cadmium	1.4	0.55		mg/kg	SW846 6010C
Calcium	7870	550		mg/kg	SW846 6010C
Chromium	20.9	1.1		mg/kg	SW846 6010C
Cobalt	7.8	5.5		mg/kg	SW846 6010C
Copper	99.2	2.8		mg/kg	SW846 6010C
Iron	22700	55		mg/kg	SW846 6010C
Lead	416	2.2		mg/kg	SW846 6010C
Magnesium	3480	550		mg/kg	SW846 6010C
Manganese	261	1.7		mg/kg	SW846 6010C
Mercury	1.5	0.19		mg/kg	SW846 7471B
Nickel	40.2	4.4		mg/kg	SW846 6010C
Silver	0.55	0.55		mg/kg	SW846 6010C
Vanadium	30.2	5.5		mg/kg	SW846 6010C
Zinc	411	5.5		mg/kg	SW846 6010C

Summary of Hits

Job Number: JB94209
Account: PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Collected: 05/07/15

3

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB94209-6	**SB3-2**					
Acetone		128	11	2.5	ug/kg	SW846 8260C
2-Butanone (MEK)		19.5	11	2.1	ug/kg	SW846 8260C
Carbon disulfide		0.63 J	2.2	0.26	ug/kg	SW846 8260C
Benzo(a)anthracene		18.3 J	36	12	ug/kg	SW846 8270D
Benzo(b)fluoranthene		15.0 J	36	12	ug/kg	SW846 8270D
Chrysene		15.1 J	36	12	ug/kg	SW846 8270D
Fluoranthene		28.3 J	36	16	ug/kg	SW846 8270D
Phenanthrene		25.4 J	36	16	ug/kg	SW846 8270D
Pyrene		28.4 J	36	14	ug/kg	SW846 8270D
Aluminum		12200	57		mg/kg	SW846 6010C
Arsenic		4.2	2.3		mg/kg	SW846 6010C
Barium		39.2	23		mg/kg	SW846 6010C
Beryllium		0.40	0.23		mg/kg	SW846 6010C
Calcium		942	570		mg/kg	SW846 6010C
Chromium		18.8	1.1		mg/kg	SW846 6010C
Cobalt		7.3	5.7		mg/kg	SW846 6010C
Copper		11.6	2.8		mg/kg	SW846 6010C
Iron		18500	57		mg/kg	SW846 6010C
Lead		14.2	2.3		mg/kg	SW846 6010C
Magnesium		2910	570		mg/kg	SW846 6010C
Manganese		297	1.7		mg/kg	SW846 6010C
Mercury		0.58	0.036		mg/kg	SW846 7471B
Nickel		20.4	4.5		mg/kg	SW846 6010C
Vanadium		23.1	5.7		mg/kg	SW846 6010C
Zinc		48.5	5.7		mg/kg	SW846 6010C
JB94209-7	**SB4-1**					
Benzene		0.48 J	0.57	0.15	ug/kg	SW846 8260C
Toluene		0.39 J	1.1	0.24	ug/kg	SW846 8260C
m,p-Xylene		0.90 J	1.1	0.40	ug/kg	SW846 8260C
o-Xylene		0.74 J	1.1	0.31	ug/kg	SW846 8260C
Xylene (total)		1.6	1.1	0.31	ug/kg	SW846 8260C
Total TIC, Volatile		156 J			ug/kg	
Acenaphthene		28.6 J	36	11	ug/kg	SW846 8270D
Acenaphthylene		72.8	36	12	ug/kg	SW846 8270D
Acetophenone		64.8 J	180	6.4	ug/kg	SW846 8270D
Anthracene		118	36	13	ug/kg	SW846 8270D
Benzo(a)anthracene		413	36	12	ug/kg	SW846 8270D
Benzo(a)pyrene		431	36	11	ug/kg	SW846 8270D
Benzo(b)fluoranthene		566	36	12	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		298	36	13	ug/kg	SW846 8270D

Summary of Hits

Job Number: JB94209
Account: PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Collected: 05/07/15

3

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Benzo(k)fluoranthene	156	36	14	ug/kg	SW846 8270D
Butyl benzyl phthalate	44.6 J	72	21	ug/kg	SW846 8270D
Benzaldehyde	57.3 J	180	8.3	ug/kg	SW846 8270D
Carbazole	63.5 J	72	17	ug/kg	SW846 8270D
Chrysene	435	36	12	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene	79.3	36	12	ug/kg	SW846 8270D
Dibenzofuran	27.0 J	72	11	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate	93.7	72	32	ug/kg	SW846 8270D
Fluoranthene	877	36	16	ug/kg	SW846 8270D
Fluorene	42.5	36	12	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	259	36	13	ug/kg	SW846 8270D
Naphthalene	34.9 J	36	9.9	ug/kg	SW846 8270D
Phenanthrene	598	36	16	ug/kg	SW846 8270D
Pyrene	938	36	14	ug/kg	SW846 8270D
Total TIC, Semi-Volatile	2080 J			ug/kg	
4,4'-DDD [a]	2.1	0.68	0.37	ug/kg	SW846 8081B
4,4'-DDE	0.99	0.68	0.28	ug/kg	SW846 8081B
4,4'-DDT	7.2	0.68	0.34	ug/kg	SW846 8081B
Aluminum	8070	58		mg/kg	SW846 6010C
Arsenic	8.5	2.3		mg/kg	SW846 6010C
Barium	1890	23		mg/kg	SW846 6010C
Beryllium	0.45	0.23		mg/kg	SW846 6010C
Cadmium	0.80	0.58		mg/kg	SW846 6010C
Calcium	3590	580		mg/kg	SW846 6010C
Chromium	19.2	1.2		mg/kg	SW846 6010C
Cobalt	8.8	5.8		mg/kg	SW846 6010C
Copper	112	2.9		mg/kg	SW846 6010C
Iron	19200	58		mg/kg	SW846 6010C
Lead	3150	2.3		mg/kg	SW846 6010C
Magnesium	3210	580		mg/kg	SW846 6010C
Manganese	478	1.7		mg/kg	SW846 6010C
Mercury	3.0	0.35		mg/kg	SW846 7471B
Nickel	29.9	4.6		mg/kg	SW846 6010C
Silver	0.97	0.58		mg/kg	SW846 6010C
Vanadium	25.9	5.8		mg/kg	SW846 6010C
Zinc	960	5.8		mg/kg	SW846 6010C
JB94209-8 SB4-2					
m,p-Xylene	0.58 J	1.2	0.42	ug/kg	SW846 8260C
Xylene (total)	0.84 J	1.2	0.32	ug/kg	SW846 8260C
Total TIC, Volatile	193 J			ug/kg	
Benzo(a)anthracene	31.8 J	39	13	ug/kg	SW846 8270D
Benzo(a)pyrene	22.0 J	39	12	ug/kg	SW846 8270D
Benzo(b)fluoranthene	26.7 J	39	13	ug/kg	SW846 8270D

Summary of Hits

Job Number: JB94209
Account: PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Collected: 05/07/15

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Chrysene		23.5 J	39	13	ug/kg	SW846 8270D
Fluoranthene		51.4	39	17	ug/kg	SW846 8270D
Phenanthrene		42.9	39	18	ug/kg	SW846 8270D
Pyrene		46.5	39	15	ug/kg	SW846 8270D
Aluminum		8350	60		mg/kg	SW846 6010C
Arsenic		6.2	2.4		mg/kg	SW846 6010C
Barium		30.0	24		mg/kg	SW846 6010C
Beryllium		0.40	0.24		mg/kg	SW846 6010C
Calcium		736	600		mg/kg	SW846 6010C
Chromium		13.0	1.2		mg/kg	SW846 6010C
Cobalt		8.7	6.0		mg/kg	SW846 6010C
Copper		17.5	3.0		mg/kg	SW846 6010C
Iron		19100	60		mg/kg	SW846 6010C
Lead		9.3	2.4		mg/kg	SW846 6010C
Magnesium		2710	600		mg/kg	SW846 6010C
Manganese		460	1.8		mg/kg	SW846 6010C
Nickel		16.5	4.8		mg/kg	SW846 6010C
Vanadium		19.2	6.0		mg/kg	SW846 6010C
Zinc		42.9	6.0		mg/kg	SW846 6010C
JB94209-9	**SB5-1**					
Ethylbenzene		0.42 J	1.1	0.18	ug/kg	SW846 8260C
Methylene chloride		1.8 J	5.4	1.1	ug/kg	SW846 8260C
Tetrachloroethene		0.78 J	2.2	0.32	ug/kg	SW846 8260C
Toluene		0.62 J	1.1	0.22	ug/kg	SW846 8260C
m,p-Xylene		2.3	1.1	0.38	ug/kg	SW846 8260C
o-Xylene		0.73 J	1.1	0.29	ug/kg	SW846 8260C
Xylene (total)		3.1	1.1	0.29	ug/kg	SW846 8260C
Acenaphthene [b]		1150	180	51	ug/kg	SW846 8270D
Acenaphthylene [b]		217	180	57	ug/kg	SW846 8270D
Anthracene [b]		3070	180	62	ug/kg	SW846 8270D
Benzo(a)anthracene [b]		8350	180	58	ug/kg	SW846 8270D
Benzo(a)pyrene [b]		7800	180	54	ug/kg	SW846 8270D
Benzo(b)fluoranthene [b]		10300	180	59	ug/kg	SW846 8270D
Benzo(g,h,i)perylene [b]		4330	180	66	ug/kg	SW846 8270D
Benzo(k)fluoranthene [b]		2680	180	66	ug/kg	SW846 8270D
1,1'-Biphenyl [b]		92.2 J	350	21	ug/kg	SW846 8270D
Carbazole [b]		1400	350	82	ug/kg	SW846 8270D
Chrysene [b]		7930	180	60	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene [b]		1440	180	60	ug/kg	SW846 8270D
Dibenzofuran [b]		768	350	53	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate [b]		1490	350	160	ug/kg	SW846 8270D
Fluoranthene [b]		16900	180	78	ug/kg	SW846 8270D
Fluorene [b]		1310	180	58	ug/kg	SW846 8270D

Summary of Hits

Job Number: JB94209
Account: PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Collected: 05/07/15

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Indeno(1,2,3-cd)pyrene [b]	3980	180	61	ug/kg	SW846 8270D
2-Methylnaphthalene [b]	282 J	350	99	ug/kg	SW846 8270D
Naphthalene [b]	513	180	48	ug/kg	SW846 8270D
Phenanthrene [b]	14300	180	80	ug/kg	SW846 8270D
Pyrene [b]	16200	180	68	ug/kg	SW846 8270D
Total TIC, Semi-Volatile	38220 J			ug/kg	
delta-BHC	1.7	0.69	0.34	ug/kg	SW846 8081B
alpha-Chlordane	5.1	0.69	0.26	ug/kg	SW846 8081B
gamma-Chlordane	3.6	0.69	0.48	ug/kg	SW846 8081B
4,4'-DDD [a]	9.0	0.69	0.38	ug/kg	SW846 8081B
4,4'-DDE	2.5	0.69	0.28	ug/kg	SW846 8081B
4,4'-DDT [a]	17.6	0.69	0.34	ug/kg	SW846 8081B
Heptachlor epoxide	2.9	0.69	0.26	ug/kg	SW846 8081B
Aluminum	8200	51		mg/kg	SW846 6010C
Arsenic	7.1	2.0		mg/kg	SW846 6010C
Barium	261	20		mg/kg	SW846 6010C
Beryllium	0.46	0.20		mg/kg	SW846 6010C
Cadmium	1.2	0.51		mg/kg	SW846 6010C
Calcium	1950	510		mg/kg	SW846 6010C
Chromium	18.9	1.0		mg/kg	SW846 6010C
Cobalt	8.1	5.1		mg/kg	SW846 6010C
Copper	53.3	2.6		mg/kg	SW846 6010C
Iron	19900	51		mg/kg	SW846 6010C
Lead	687	2.0		mg/kg	SW846 6010C
Magnesium	2130	510		mg/kg	SW846 6010C
Manganese	196	1.5		mg/kg	SW846 6010C
Mercury	0.42	0.035		mg/kg	SW846 7471B
Nickel	24.9	4.1		mg/kg	SW846 6010C
Vanadium	23.1	5.1		mg/kg	SW846 6010C
Zinc	754	5.1		mg/kg	SW846 6010C
JB94209-10 SB5-2					
Acenaphthene	56.9	37	11	ug/kg	SW846 8270D
Acenaphthylene	77.2	37	12	ug/kg	SW846 8270D
Anthracene	167	37	13	ug/kg	SW846 8270D
Benzo(a)anthracene	553	37	12	ug/kg	SW846 8270D
Benzo(a)pyrene	522	37	11	ug/kg	SW846 8270D
Benzo(b)fluoranthene	661	37	12	ug/kg	SW846 8270D
Benzo(g,h,i)perylene	321	37	14	ug/kg	SW846 8270D
Benzo(k)fluoranthene	173	37	14	ug/kg	SW846 8270D
Carbazole	97.8	74	17	ug/kg	SW846 8270D
Chrysene	579	37	13	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene	94.7	37	13	ug/kg	SW846 8270D
Dibenzofuran	49.1 J	74	11	ug/kg	SW846 8270D

Summary of Hits

Job Number: JB94209
Account: PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Collected: 05/07/15

3

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Fluoranthene	1050	37	16	ug/kg	SW846 8270D
Fluorene	75.4	37	12	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	279	37	13	ug/kg	SW846 8270D
2-Methylnaphthalene	27.9 J	74	21	ug/kg	SW846 8270D
Naphthalene	53.7	37	10	ug/kg	SW846 8270D
Phenanthrene	858	37	17	ug/kg	SW846 8270D
Pyrene	1230	37	14	ug/kg	SW846 8270D
Total TIC, Semi-Volatile	1840 J			ug/kg	
4,4'-DDT	2.2	0.71	0.35	ug/kg	SW846 8081B
Aluminum	5460	57		mg/kg	SW846 6010C
Arsenic	5.1	2.3		mg/kg	SW846 6010C
Barium	23.8	23		mg/kg	SW846 6010C
Beryllium	0.32	0.23		mg/kg	SW846 6010C
Chromium	8.9	1.1		mg/kg	SW846 6010C
Cobalt	6.3	5.7		mg/kg	SW846 6010C
Copper	12.6	2.9		mg/kg	SW846 6010C
Iron	14600	57		mg/kg	SW846 6010C
Lead	14.4	2.3		mg/kg	SW846 6010C
Magnesium	1850	570		mg/kg	SW846 6010C
Manganese	297	1.7		mg/kg	SW846 6010C
Mercury	0.18	0.035		mg/kg	SW846 7471B
Nickel	17.9	4.6		mg/kg	SW846 6010C
Vanadium	13.7	5.7		mg/kg	SW846 6010C
Zinc	40.0	5.7		mg/kg	SW846 6010C
JB94209-11 SB6-1					
Methyl Acetate	6.2	5.4	0.92	ug/kg	SW846 8260C
Total TIC, Volatile	81 J			ug/kg	
3&4-Methylphenol	84.8	69	44	ug/kg	SW846 8270D
Acenaphthene	5810	1400	400	ug/kg	SW846 8270D
Acenaphthylene	173	34	11	ug/kg	SW846 8270D
Anthracene	13100	1400	480	ug/kg	SW846 8270D
Benzo(a)anthracene	27300	1400	450	ug/kg	SW846 8270D
Benzo(a)pyrene	21700	1400	420	ug/kg	SW846 8270D
Benzo(b)fluoranthene	27300	1400	460	ug/kg	SW846 8270D
Benzo(g,h,i)perylene	11100	1400	510	ug/kg	SW846 8270D
Benzo(k)fluoranthene	8330	1400	520	ug/kg	SW846 8270D
1,1'-Biphenyl	352	69	4.0	ug/kg	SW846 8270D
Carbazole	6560	2800	640	ug/kg	SW846 8270D
Chrysene	25100	1400	470	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene	3680	1400	470	ug/kg	SW846 8270D
Dibenzofuran	3400	2800	410	ug/kg	SW846 8270D
Di-n-butyl phthalate	64.4 J	69	7.7	ug/kg	SW846 8270D
Fluoranthene	62000	1400	610	ug/kg	SW846 8270D

Summary of Hits

Job Number: JB94209
Account: PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Collected: 05/07/15

3

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Fluorene	5850	1400	450	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	10500	1400	480	ug/kg	SW846 8270D
2-Methylnaphthalene	1230	69	19	ug/kg	SW846 8270D
Naphthalene	3320	34	9.4	ug/kg	SW846 8270D
Phenanthrene	57100	1400	630	ug/kg	SW846 8270D
Pyrene	58700	1400	530	ug/kg	SW846 8270D
Total TIC, Semi-Volatile	6020 J			ug/kg	
4,4'-DDD	12.4	0.70	0.38	ug/kg	SW846 8081B
4,4'-DDE	1.2	0.70	0.28	ug/kg	SW846 8081B
Methoxychlor	21.3	1.4	0.68	ug/kg	SW846 8081B
Aluminum	9760	57		mg/kg	SW846 6010C
Arsenic	5.5	2.3		mg/kg	SW846 6010C
Barium	179	23		mg/kg	SW846 6010C
Beryllium	0.95	0.23		mg/kg	SW846 6010C
Calcium	18100	570		mg/kg	SW846 6010C
Chromium	18.6	1.1		mg/kg	SW846 6010C
Cobalt	8.2	5.7		mg/kg	SW846 6010C
Copper	52.9	2.8		mg/kg	SW846 6010C
Iron	14100	57		mg/kg	SW846 6010C
Lead	131	2.3		mg/kg	SW846 6010C
Magnesium	9140	570		mg/kg	SW846 6010C
Manganese	997	1.7		mg/kg	SW846 6010C
Mercury	0.21	0.033		mg/kg	SW846 7471B
Nickel	72.1	4.5		mg/kg	SW846 6010C
Potassium	1290	1100		mg/kg	SW846 6010C
Vanadium	33.2	5.7		mg/kg	SW846 6010C
Zinc	91.6	5.7		mg/kg	SW846 6010C
JB94209-12 SB6-2					
Acenaphthene	57.3	36	10	ug/kg	SW846 8270D
Anthracene	129	36	13	ug/kg	SW846 8270D
Benzo(a)anthracene	302	36	12	ug/kg	SW846 8270D
Benzo(a)pyrene	263	36	11	ug/kg	SW846 8270D
Benzo(b)fluoranthene	323	36	12	ug/kg	SW846 8270D
Benzo(g,h,i)perylene	134	36	13	ug/kg	SW846 8270D
Benzo(k)fluoranthene	114	36	14	ug/kg	SW846 8270D
Carbazole	66.7 J	72	17	ug/kg	SW846 8270D
Chrysene	280	36	12	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene	41.4	36	12	ug/kg	SW846 8270D
Dibenzofuran	33.6 J	72	11	ug/kg	SW846 8270D
Fluoranthene	621	36	16	ug/kg	SW846 8270D
Fluorene	55.6	36	12	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	123	36	12	ug/kg	SW846 8270D
Naphthalene	23.0 J	36	9.8	ug/kg	SW846 8270D

Summary of Hits

Job Number: JB94209
Account: PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Collected: 05/07/15

3

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Phenanthrene	512	36	16	ug/kg	SW846 8270D
Pyrene	559	36	14	ug/kg	SW846 8270D
Total TIC, Semi-Volatile	180 J			ug/kg	
Aluminum	5030	52		mg/kg	SW846 6010C
Arsenic	4.5	2.1		mg/kg	SW846 6010C
Barium	27.4	21		mg/kg	SW846 6010C
Beryllium	0.34	0.21		mg/kg	SW846 6010C
Cadmium	0.52	0.52		mg/kg	SW846 6010C
Calcium	935	520		mg/kg	SW846 6010C
Chromium	24.5	1.0		mg/kg	SW846 6010C
Cobalt	10	5.2		mg/kg	SW846 6010C
Copper	11.6	2.6		mg/kg	SW846 6010C
Iron	13700	52		mg/kg	SW846 6010C
Lead	27.3	2.1		mg/kg	SW846 6010C
Magnesium	10100	520		mg/kg	SW846 6010C
Manganese	159	1.6		mg/kg	SW846 6010C
Nickel	148	4.1		mg/kg	SW846 6010C
Vanadium	15.8	5.2		mg/kg	SW846 6010C
Zinc	27.8	5.2		mg/kg	SW846 6010C
JB94209-13 TW-1					
Di-n-butyl phthalate	1.4 JB	2.0	0.58	ug/l	SW846 8270D
Total TIC, Semi-Volatile	5.4 J			ug/l	
Aluminum	536	200		ug/l	SW846 6010C
Calcium	81500	5000		ug/l	SW846 6010C
Iron	974	100		ug/l	SW846 6010C
Magnesium	25300	5000		ug/l	SW846 6010C
Manganese	246	15		ug/l	SW846 6010C
Nickel	34.0	10		ug/l	SW846 6010C
Potassium	15100	10000		ug/l	SW846 6010C
Selenium	10.6	10		ug/l	SW846 6010C
Sodium	497000	10000		ug/l	SW846 6010C
Zinc	108	20		ug/l	SW846 6010C
JB94209-14 TW-2					
Naphthalene	0.59 J	1.0	0.27	ug/l	SW846 8270D
Phenanthrene	0.47 J	1.0	0.19	ug/l	SW846 8270D
Total TIC, Semi-Volatile	28.9 J			ug/l	
Aluminum	2860	200		ug/l	SW846 6010C
Calcium	21800	5000		ug/l	SW846 6010C
Copper	14.5	10		ug/l	SW846 6010C
Iron	6160	100		ug/l	SW846 6010C
Lead	6.5	3.0		ug/l	SW846 6010C

Summary of Hits

Job Number: JB94209
Account: PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Collected: 05/07/15

3

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Magnesium		5570	5000		ug/l	SW846 6010C
Manganese		162	15		ug/l	SW846 6010C
Nickel		12.4	10		ug/l	SW846 6010C
Sodium		41600	10000		ug/l	SW846 6010C
Zinc		20.1	20		ug/l	SW846 6010C
JB94209-15	**TW-3**					
Acetone		30.6	10	3.3	ug/l	SW846 8260C
Di-n-butyl phthalate		1.4 JB	2.1	0.61	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate		1.2 J	2.1	0.58	ug/l	SW846 8270D
Total TIC, Semi-Volatile		5.9 J			ug/l	
Aluminum		714	200		ug/l	SW846 6010C
Calcium		117000	5000		ug/l	SW846 6010C
Iron		1380	100		ug/l	SW846 6010C
Lead		4.3	3.0		ug/l	SW846 6010C
Magnesium		22900	5000		ug/l	SW846 6010C
Manganese		399	15		ug/l	SW846 6010C
Nickel		51.0	10		ug/l	SW846 6010C
Potassium		25100	10000		ug/l	SW846 6010C
Silver		11.6	10		ug/l	SW846 6010C
Sodium		546000	10000		ug/l	SW846 6010C
Zinc		20.7	20		ug/l	SW846 6010C
JB94209-16	**TW2-DUP**					
Di-n-butyl phthalate		1.4 JB	2.2	0.65	ug/l	SW846 8270D
Naphthalene		1.9	1.1	0.29	ug/l	SW846 8270D
Phenanthrene		0.83 J	1.1	0.21	ug/l	SW846 8270D
Total TIC, Semi-Volatile		5.9 J			ug/l	
Aluminum		2730	200		ug/l	SW846 6010C
Calcium		22300	5000		ug/l	SW846 6010C
Iron		5710	100		ug/l	SW846 6010C
Lead		5.8	3.0		ug/l	SW846 6010C
Magnesium		5700	5000		ug/l	SW846 6010C
Manganese		155	15		ug/l	SW846 6010C
Nickel		11.6	10		ug/l	SW846 6010C
Potassium		10300	10000		ug/l	SW846 6010C
Sodium		43000	10000		ug/l	SW846 6010C
Zinc		25.2	20		ug/l	SW846 6010C
JB94209-17	**FB**					
Total TIC, Semi-Volatile		7.9 J			ug/l	

Summary of Hits

Job Number: JB94209
Account: PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Collected: 05/07/15

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB94209-18	**SB5-2 DUP**					
Acetone		11.0 J	13	2.8	ug/kg	SW846 8260C
Ethylbenzene		0.26 J	1.3	0.20	ug/kg	SW846 8260C
Methylene chloride		1.6 J	6.3	1.2	ug/kg	SW846 8260C
Toluene		0.34 J	1.3	0.26	ug/kg	SW846 8260C
m,p-Xylene		1.2 J	1.3	0.44	ug/kg	SW846 8260C
o-Xylene		0.38 J	1.3	0.34	ug/kg	SW846 8260C
Xylene (total)		1.6	1.3	0.34	ug/kg	SW846 8260C
Benzo(a)anthracene		27.0 J	39	13	ug/kg	SW846 8270D
Benzo(a)pyrene		20.7 J	39	12	ug/kg	SW846 8270D
Benzo(b)fluoranthene		28.1 J	39	13	ug/kg	SW846 8270D
Chrysene		25.3 J	39	13	ug/kg	SW846 8270D
Fluoranthene		47.4	39	17	ug/kg	SW846 8270D
Phenanthrene		43.1	39	18	ug/kg	SW846 8270D
Pyrene		46.4	39	15	ug/kg	SW846 8270D
4,4'-DDD		1.4	0.76	0.42	ug/kg	SW846 8081B
4,4'-DDT		4.9	0.76	0.38	ug/kg	SW846 8081B
Aluminum		8880	62		mg/kg	SW846 6010C
Arsenic		5.9	2.5		mg/kg	SW846 6010C
Barium		36.9	25		mg/kg	SW846 6010C
Beryllium		0.50	0.25		mg/kg	SW846 6010C
Calcium		1030	620		mg/kg	SW846 6010C
Chromium		15.5	1.2		mg/kg	SW846 6010C
Cobalt		9.4	6.2		mg/kg	SW846 6010C
Copper		24.1	3.1		mg/kg	SW846 6010C
Iron		19900	62		mg/kg	SW846 6010C
Lead		39.8	2.5		mg/kg	SW846 6010C
Magnesium		2790	620		mg/kg	SW846 6010C
Manganese		488	1.9		mg/kg	SW846 6010C
Mercury		0.29	0.038		mg/kg	SW846 7471B
Nickel		19.3	5.0		mg/kg	SW846 6010C
Potassium		1260	1200		mg/kg	SW846 6010C
Vanadium		20.1	6.2		mg/kg	SW846 6010C
Zinc		74.7	6.2		mg/kg	SW846 6010C

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Elevated detection limit due to high final volume of viscous extract.

New Jersey

ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB1-1		
Lab Sample ID:	JB94209-1	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	87.5
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I203937.D	1	05/08/15	SJM	n/a	n/a	VI8194
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	2.6	ug/kg	
71-43-2	Benzene	ND	0.57	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	5.7	0.35	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	0.18	ug/kg	
75-25-2	Bromoform	ND	5.7	0.27	ug/kg	
74-83-9	Bromomethane	ND	5.7	0.42	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.2	ug/kg	
75-15-0	Carbon disulfide	ND	2.3	0.26	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	0.26	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	0.18	ug/kg	
75-00-3	Chloroethane	ND	5.7	0.55	ug/kg	
67-66-3	Chloroform	ND	2.3	0.17	ug/kg	
74-87-3	Chloromethane	ND	5.7	0.30	ug/kg	
110-82-7	Cyclohexane	ND	2.3	0.36	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.3	0.62	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	0.23	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.15	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.14	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.18	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.26	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.7	0.41	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.1	0.16	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.15	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.1	0.68	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.89	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.68	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	0.27	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	0.13	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	0.20	ug/kg	
100-41-4	Ethylbenzene	0.41	1.1	0.19	ug/kg	J
76-13-1	Freon 113	ND	5.7	0.51	ug/kg	
591-78-6	2-Hexanone	ND	5.7	1.5	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB1-1		
Lab Sample ID:	JB94209-1	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	87.5
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	0.58	2.3	0.12	ug/kg	J
79-20-9	Methyl Acetate	ND	5.7	0.98	ug/kg	
108-87-2	Methylcyclohexane	ND	2.3	0.26	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.17	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.7	0.52	ug/kg	
75-09-2	Methylene chloride	ND	5.7	1.1	ug/kg	
100-42-5	Styrene	ND	2.3	0.20	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	0.20	ug/kg	
127-18-4	Tetrachloroethene	ND	2.3	0.34	ug/kg	
108-88-3	Toluene	ND	1.1	0.24	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.7	0.20	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.7	0.19	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	0.17	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	0.17	ug/kg	
79-01-6	Trichloroethene	ND	1.1	0.17	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.7	0.28	ug/kg	
75-01-4	Vinyl chloride	ND	2.3	0.23	ug/kg	
	m,p-Xylene	2.7	1.1	0.40	ug/kg	
95-47-6	o-Xylene	4.0	1.1	0.31	ug/kg	
1330-20-7	Xylene (total)	6.7	1.1	0.31	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		70-122%
17060-07-0	1,2-Dichloroethane-D4	99%		68-124%
2037-26-5	Toluene-D8	94%		77-125%
460-00-4	4-Bromofluorobenzene	104%		72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	C3 alkyl benzene	14.97	39	ug/kg	J
	C3 alkyl benzene	15.05	34	ug/kg	J
	C3 alkyl benzene	15.43	81	ug/kg	J
	C3 alkyl benzene	16.05	50	ug/kg	J
	C4 alkyl benzene	16.11	100	ug/kg	J
	C4 alkyl benzene	16.40	34	ug/kg	J
	C4 alkyl benzene	16.43	35	ug/kg	J
	C4 alkyl benzene	16.51	82	ug/kg	J
	C4 alkyl benzene	16.92	53	ug/kg	J
	C4 alkyl benzene	16.98	88	ug/kg	J

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB1-1		
Lab Sample ID:	JB94209-1	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	87.5
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

VOA TCL List

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	1H-Indene-dihydro-methyl- isomer	17.30	44	ug/kg	J
	C4 alkyl benzene	17.43	58	ug/kg	J
	1H-Indene-dihydro-methyl- isomer	17.48	100	ug/kg	J
	1H-indene-dihydro-dimethyl- isomer	17.78	81	ug/kg	J
	1H-indene-dihydro-dimethyl- isomer	18.50	35	ug/kg	J
	Total TIC, Volatile		914	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB1-1		
Lab Sample ID:	JB94209-1	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	87.5
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P48478.D	1	05/11/15	SD	05/09/15	OP83787	E2P2069
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	75	38	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	38	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	61	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	63	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	190	46	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	190	46	ug/kg	
95-48-7	2-Methylphenol	ND	75	43	ug/kg	
	3&4-Methylphenol	213	75	48	ug/kg	
88-75-5	2-Nitrophenol	ND	190	40	ug/kg	
100-02-7	4-Nitrophenol	ND	380	64	ug/kg	
87-86-5	Pentachlorophenol	ND	190	64	ug/kg	
108-95-2	Phenol	190	75	40	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	39	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	44	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	35	ug/kg	
83-32-9	Acenaphthene	ND	38	11	ug/kg	
208-96-8	Acenaphthylene	44.5	38	12	ug/kg	
98-86-2	Acetophenone	76.7	190	6.6	ug/kg	J
120-12-7	Anthracene	ND	38	13	ug/kg	
1912-24-9	Atrazine	ND	75	7.4	ug/kg	
56-55-3	Benzo(a)anthracene	ND	38	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	38	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	17.3	38	13	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	ND	38	14	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	38	14	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	75	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	75	22	ug/kg	
92-52-4	1,1'-Biphenyl	48.2	75	4.4	ug/kg	J
100-52-7	Benzaldehyde	ND	190	8.7	ug/kg	
91-58-7	2-Chloronaphthalene	148	75	12	ug/kg	
106-47-8	4-Chloroaniline	ND	190	12	ug/kg	
86-74-8	Carbazole	ND	75	17	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB1-1		
Lab Sample ID:	JB94209-1	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	87.5
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	75	12	ug/kg	
218-01-9	Chrysene	19.8	38	13	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	75	15	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	75	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	75	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	75	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	38	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	38	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	75	9.6	ug/kg	
123-91-1	1,4-Dioxane	ND	38	25	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	38	13	ug/kg	
132-64-9	Dibenzofuran	ND	75	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	75	8.4	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	75	18	ug/kg	
84-66-2	Diethyl phthalate	ND	75	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	75	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	75	33	ug/kg	
206-44-0	Fluoranthene	48.0	38	17	ug/kg	
86-73-7	Fluorene	ND	38	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	75	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	38	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	380	38	ug/kg	
67-72-1	Hexachloroethane	ND	190	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38	13	ug/kg	
78-59-1	Isophorone	ND	75	10	ug/kg	
91-57-6	2-Methylnaphthalene	35.2	75	21	ug/kg	J
88-74-4	2-Nitroaniline	ND	190	17	ug/kg	
99-09-2	3-Nitroaniline	ND	190	15	ug/kg	
100-01-6	4-Nitroaniline	ND	190	15	ug/kg	
91-20-3	Naphthalene	387	38	10	ug/kg	
98-95-3	Nitrobenzene	ND	75	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	75	9.2	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	23	ug/kg	
85-01-8	Phenanthrene	89.6	38	17	ug/kg	
129-00-0	Pyrene	41.1	38	14	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		22-121%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB1-1		
Lab Sample ID:	JB94209-1	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	87.5
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	31%		27-119%
118-79-6	2,4,6-Tribromophenol	42%		17-158%
4165-60-0	Nitrobenzene-d5	57%		33-127%
321-60-8	2-Fluorobiphenyl	68%		41-121%
1718-51-0	Terphenyl-d14	51%		44-137%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.43	7200	ug/kg	J
	system artifact	1.54	210	ug/kg	J
	system artifact	1.72	220	ug/kg	J
	system artifact	1.82	440	ug/kg	J
	system artifact	1.92	1900	ug/kg	J
	system artifact	2.17	990	ug/kg	J
	system artifact	2.37	1300	ug/kg	J
	system artifact	2.45	15000	ug/kg	J
	system artifact	2.56	600	ug/kg	J
	system artifact	2.57	660	ug/kg	J
	system artifact	2.67	590	ug/kg	J
	system artifact	2.75	350	ug/kg	J
	Furfural	2.82	700	ug/kg	JN
	system artifact/aldol-condensation	2.91	7400	ug/kg	J
	system artifact	3.09	270	ug/kg	J
	system artifact	3.37	750	ug/kg	J
	system artifact	3.53	590	ug/kg	J
	system artifact	3.66	460	ug/kg	J
	system artifact	3.83	210	ug/kg	J
	system artifact	3.91	580	ug/kg	J
	2-Furancarboxaldehyde, 5-methyl-	3.94	520	ug/kg	JN
	C3 alkyl benzene	4.00	180	ug/kg	J
	Benzene, 1,2-dichloro-	4.46	160	ug/kg	JN
	unknown	4.53	260	ug/kg	J
	2-Cyclohexen-1-one, -methyl-	4.60	410	ug/kg	J
	unknown	4.95	530	ug/kg	J
	Ethanone, 1-(2-hydroxyphenyl)-	5.23	170	ug/kg	JN
	unknown	5.59	160	ug/kg	J
	unknown acid	8.65	590	ug/kg	J
	Total TIC, Semi-Volatile		3680	ug/kg	J

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID: SB1-1
Lab Sample ID: JB94209-1
Matrix: SO - Soil
Method: SW846 8081B SW846 3546
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Date Sampled: 05/07/15
Date Received: 05/07/15
Percent Solids: 87.5

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G56090.D	1	05/14/15	RK	05/14/15	OP83920	G4G1469
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.74	0.34	ug/kg	
319-84-6	alpha-BHC	ND	0.74	0.22	ug/kg	
319-85-7	beta-BHC	ND	0.74	0.46	ug/kg	
319-86-8	delta-BHC	ND	0.74	0.37	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.74	0.36	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.74	0.27	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.74	0.51	ug/kg	
60-57-1	Dieldrin	ND	0.74	0.29	ug/kg	
72-54-8	4,4'-DDD	ND	0.74	0.41	ug/kg	
72-55-9	4,4'-DDE	ND	0.74	0.30	ug/kg	
50-29-3	4,4'-DDT	ND	0.74	0.37	ug/kg	
72-20-8	Endrin	ND	0.74	0.24	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.74	0.32	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.74	0.39	ug/kg	
959-98-8	Endosulfan-I	ND	0.74	0.28	ug/kg	
33213-65-9	Endosulfan-II	ND	0.74	0.44	ug/kg	
76-44-8	Heptachlor	ND	0.74	0.36	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.74	0.28	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.73	ug/kg	
53494-70-5	Endrin ketone	ND	0.74	0.30	ug/kg	
8001-35-2	Toxaphene	ND	19	9.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	99%		10-129%
877-09-8	Tetrachloro-m-xylene	101%		10-129%
2051-24-3	Decachlorobiphenyl	82%		10-144%
2051-24-3	Decachlorobiphenyl	74%		10-144%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB1-1		
Lab Sample ID:	JB94209-1	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8082A SW846 3546	**Percent Solids:**	87.5
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G113706.D	1	05/11/15	DG	05/10/15	OP83802	G2G3349
Run #2							

	Initial Weight	Final Volume
Run #1	16.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.2	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	18	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	11	ug/kg	
11097-69-1	Aroclor 1254	ND	35	17	ug/kg	
11096-82-5	Aroclor 1260	ND	35	12	ug/kg	
11100-14-4	Aroclor 1268	ND	35	10	ug/kg	
37324-23-5	Aroclor 1262	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	110%		14-139%
877-09-8	Tetrachloro-m-xylene	90%		14-139%
2051-24-3	Decachlorobiphenyl	82%		10-155%
2051-24-3	Decachlorobiphenyl	77%		10-155%

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Report of Analysis

Client Sample ID:	SB1-1		
Lab Sample ID:	JB94209-1	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
		Percent Solids:	87.5
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	3370	54	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Antimony	< 2.2	2.2	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Arsenic	5.1	2.2	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Barium	47.9	22	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Beryllium	0.26	0.22	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Cadmium	0.69	0.54	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Calcium	4900	540	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Chromium	11.4	1.1	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Cobalt	< 5.4	5.4	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Copper	40.2	2.7	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Iron	8310	54	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Lead	198	2.2	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Magnesium	3380	540	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Manganese	141	1.6	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Mercury	0.35	0.036	mg/kg	1	05/12/15	05/12/15	DP	SW846 7471B [2]	SW846 7471B [4]
Nickel	15.7	4.4	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Selenium	< 2.2	2.2	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Silver	< 0.54	0.54	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Vanadium	11.0	5.4	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Zinc	702	5.4	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA36629
(2) Instrument QC Batch: MA36633
(3) Prep QC Batch: MP86349
(4) Prep QC Batch: MP86397

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB1-2		
Lab Sample ID:	JB94209-2	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	84.2
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I203960.D	1	05/09/15	SJM	n/a	n/a	VI8195
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	13.0	12	2.7	ug/kg	
71-43-2	Benzene	ND	0.59	0.16	ug/kg	
74-97-5	Bromochloromethane	ND	5.9	0.37	ug/kg	
75-27-4	Bromodichloromethane	ND	2.4	0.19	ug/kg	
75-25-2	Bromoform	ND	5.9	0.28	ug/kg	
74-83-9	Bromomethane	ND	5.9	0.43	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	2.3	ug/kg	
75-15-0	Carbon disulfide	ND	2.4	0.27	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.4	0.27	ug/kg	
108-90-7	Chlorobenzene	ND	2.4	0.18	ug/kg	
75-00-3	Chloroethane	ND	5.9	0.57	ug/kg	
67-66-3	Chloroform	ND	2.4	0.18	ug/kg	
74-87-3	Chloromethane	ND	5.9	0.31	ug/kg	
110-82-7	Cyclohexane	ND	2.4	0.38	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.4	0.65	ug/kg	
124-48-1	Dibromochloromethane	ND	2.4	0.24	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.2	0.14	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.2	0.19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.2	0.27	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.9	0.43	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.2	0.17	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.16	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.2	0.70	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.2	0.93	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.2	0.71	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.4	0.28	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	0.14	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	0.21	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.19	ug/kg	
76-13-1	Freon 113	ND	5.9	0.53	ug/kg	
591-78-6	2-Hexanone	ND	5.9	1.6	ug/kg	

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RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB1-2		
Lab Sample ID:	JB94209-2	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	84.2
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.4	0.13	ug/kg	
79-20-9	Methyl Acetate	ND	5.9	1.0	ug/kg	
108-87-2	Methylcyclohexane	ND	2.4	0.27	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.18	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.9	0.55	ug/kg	
75-09-2	Methylene chloride	ND	5.9	1.2	ug/kg	
100-42-5	Styrene	ND	2.4	0.21	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	0.21	ug/kg	
127-18-4	Tetrachloroethene	ND	2.4	0.36	ug/kg	
108-88-3	Toluene	ND	1.2	0.25	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.9	0.21	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.9	0.20	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.4	0.18	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.4	0.17	ug/kg	
79-01-6	Trichloroethene	ND	1.2	0.17	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.9	0.30	ug/kg	
75-01-4	Vinyl chloride	ND	2.4	0.23	ug/kg	
	m,p-Xylene	ND	1.2	0.42	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.33	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		70-122%
17060-07-0	1,2-Dichloroethane-D4	95%		68-124%
2037-26-5	Toluene-D8	97%		77-125%
460-00-4	4-Bromofluorobenzene	92%		72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

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RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB1-2		
Lab Sample ID:	JB94209-2	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	84.2
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P48473.D	1	05/11/15	SD	05/09/15	OP83787	E2P2069
Run #2							

	Initial Weight	Final Volume
Run #1	31.4 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	76	38	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	38	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	61	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	64	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	190	46	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	190	46	ug/kg	
95-48-7	2-Methylphenol	ND	76	43	ug/kg	
	3&4-Methylphenol	ND	76	48	ug/kg	
88-75-5	2-Nitrophenol	ND	190	40	ug/kg	
100-02-7	4-Nitrophenol	ND	380	64	ug/kg	
87-86-5	Pentachlorophenol	ND	190	65	ug/kg	
108-95-2	Phenol	ND	76	40	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	39	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	44	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	36	ug/kg	
83-32-9	Acenaphthene	ND	38	11	ug/kg	
208-96-8	Acenaphthylene	ND	38	12	ug/kg	
98-86-2	Acetophenone	ND	190	6.7	ug/kg	
120-12-7	Anthracene	ND	38	13	ug/kg	
1912-24-9	Atrazine	ND	76	7.5	ug/kg	
56-55-3	Benzo(a)anthracene	ND	38	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	38	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	38	13	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	38	14	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	38	14	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	76	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	76	22	ug/kg	
92-52-4	1,1'-Biphenyl	ND	76	4.4	ug/kg	
100-52-7	Benzaldehyde	ND	190	8.7	ug/kg	
91-58-7	2-Chloronaphthalene	ND	76	12	ug/kg	
106-47-8	4-Chloroaniline	ND	190	12	ug/kg	
86-74-8	Carbazole	ND	76	18	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB1-2		
Lab Sample ID:	JB94209-2	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	84.2
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	76	12	ug/kg	
218-01-9	Chrysene	ND	38	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	76	15	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	76	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	76	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	76	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	38	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	38	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	76	9.6	ug/kg	
123-91-1	1,4-Dioxane	ND	38	25	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	38	13	ug/kg	
132-64-9	Dibenzofuran	ND	76	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	76	8.4	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	76	18	ug/kg	
84-66-2	Diethyl phthalate	ND	76	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	76	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	76	33	ug/kg	
206-44-0	Fluoranthene	ND	38	17	ug/kg	
86-73-7	Fluorene	ND	38	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	76	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	38	11	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	380	39	ug/kg	
67-72-1	Hexachloroethane	ND	190	11	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38	13	ug/kg	
78-59-1	Isophorone	ND	76	10	ug/kg	
91-57-6	2-Methylnaphthalene	ND	76	21	ug/kg	
88-74-4	2-Nitroaniline	ND	190	17	ug/kg	
99-09-2	3-Nitroaniline	ND	190	15	ug/kg	
100-01-6	4-Nitroaniline	ND	190	15	ug/kg	
91-20-3	Naphthalene	ND	38	10	ug/kg	
98-95-3	Nitrobenzene	ND	76	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	76	9.2	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	23	ug/kg	
85-01-8	Phenanthrene	ND	38	17	ug/kg	
129-00-0	Pyrene	ND	38	15	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	61%		22-121%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB1-2		
Lab Sample ID:	JB94209-2	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	84.2
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	58%		27-119%
118-79-6	2,4,6-Tribromophenol	59%		17-158%
4165-60-0	Nitrobenzene-d5	75%		33-127%
321-60-8	2-Fluorobiphenyl	72%		41-121%
1718-51-0	Terphenyl-d14	96%		44-137%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.54	360	ug/kg	J
	system artifact/aldol-condensation	2.88	830	ug/kg	J
	unknown acid	8.65	160	ug/kg	J
	unknown	13.95	270	ug/kg	J
	Total TIC, Semi-Volatile		430	ug/kg	J

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RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID: SB1-2
Lab Sample ID: JB94209-2
Matrix: SO - Soil
Method: SW846 8081B SW846 3546
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Date Sampled: 05/07/15
Date Received: 05/07/15
Percent Solids: 84.2

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G56091.D	1	05/14/15	RK	05/14/15	OP83920	G4G1469
Run #2							

	Initial Weight	Final Volume
Run #1	16.8 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.71	0.33	ug/kg	
319-84-6	alpha-BHC	ND	0.71	0.21	ug/kg	
319-85-7	beta-BHC	ND	0.71	0.44	ug/kg	
319-86-8	delta-BHC	ND	0.71	0.35	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.71	0.35	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.71	0.26	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.71	0.49	ug/kg	
60-57-1	Dieldrin	ND	0.71	0.28	ug/kg	
72-54-8	4,4'-DDD	ND	0.71	0.39	ug/kg	
72-55-9	4,4'-DDE	ND	0.71	0.28	ug/kg	
50-29-3	4,4'-DDT	ND	0.71	0.35	ug/kg	
72-20-8	Endrin	ND	0.71	0.23	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.71	0.30	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.71	0.37	ug/kg	
959-98-8	Endosulfan-I	ND	0.71	0.27	ug/kg	
33213-65-9	Endosulfan-II	ND	0.71	0.42	ug/kg	
76-44-8	Heptachlor	ND	0.71	0.34	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.71	0.26	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.69	ug/kg	
53494-70-5	Endrin ketone	ND	0.71	0.29	ug/kg	
8001-35-2	Toxaphene	ND	18	8.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	92%		10-129%
877-09-8	Tetrachloro-m-xylene	94%		10-129%
2051-24-3	Decachlorobiphenyl	79%		10-144%
2051-24-3	Decachlorobiphenyl	70%		10-144%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB1-2		
Lab Sample ID:	JB94209-2	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8082A SW846 3546	**Percent Solids:**	84.2
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G113707.D	1	05/11/15	DG	05/10/15	OP83802	G2G3349
Run #2							

	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	9.8	ug/kg	
11104-28-2	Aroclor 1221	ND	38	23	ug/kg	
11141-16-5	Aroclor 1232	ND	38	19	ug/kg	
53469-21-9	Aroclor 1242	ND	38	12	ug/kg	
12672-29-6	Aroclor 1248	ND	38	11	ug/kg	
11097-69-1	Aroclor 1254	ND	38	18	ug/kg	
11096-82-5	Aroclor 1260	ND	38	12	ug/kg	
11100-14-4	Aroclor 1268	ND	38	11	ug/kg	
37324-23-5	Aroclor 1262	ND	38	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	126%		14-139%
877-09-8	Tetrachloro-m-xylene	102%		14-139%
2051-24-3	Decachlorobiphenyl	98%		10-155%
2051-24-3	Decachlorobiphenyl	86%		10-155%

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RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB1-2		
Lab Sample ID:	JB94209-2	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
		Percent Solids:	84.2
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	5240	57	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Antimony	< 2.3	2.3	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Arsenic	5.3	2.3	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Barium	30.0	23	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Beryllium	0.38	0.23	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Cadmium	< 0.57	0.57	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Calcium	< 570	570	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Chromium	22.5	1.1	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Cobalt	11.7	5.7	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Copper	14.7	2.9	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Iron	18700	57	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Lead	49.6	2.3	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Magnesium	2230	570	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Manganese	422	1.7	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Mercury	0.037	0.037	mg/kg	1	05/12/15	05/12/15	DP	SW846 7471B [2]	SW846 7471B [4]
Nickel	74.3	4.6	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Selenium	< 2.3	2.3	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Silver	< 0.57	0.57	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Vanadium	17.4	5.7	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]
Zinc	154	5.7	mg/kg	1	05/09/15	05/11/15	ND	SW846 6010C [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA36629
(2) Instrument QC Batch: MA36633
(3) Prep QC Batch: MP86349
(4) Prep QC Batch: MP86397

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB2-1		
Lab Sample ID:	JB94209-3	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	84.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I203961.D	1	05/09/15	SJM	n/a	n/a	VI8195
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	2.7	ug/kg	
71-43-2	Benzene	ND	0.60	0.16	ug/kg	
74-97-5	Bromochloromethane	ND	6.0	0.37	ug/kg	
75-27-4	Bromodichloromethane	ND	2.4	0.19	ug/kg	
75-25-2	Bromoform	ND	6.0	0.28	ug/kg	
74-83-9	Bromomethane	ND	6.0	0.43	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	2.3	ug/kg	
75-15-0	Carbon disulfide	ND	2.4	0.27	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.4	0.27	ug/kg	
108-90-7	Chlorobenzene	ND	2.4	0.18	ug/kg	
75-00-3	Chloroethane	ND	6.0	0.57	ug/kg	
67-66-3	Chloroform	ND	2.4	0.18	ug/kg	
74-87-3	Chloromethane	ND	6.0	0.31	ug/kg	
110-82-7	Cyclohexane	ND	2.4	0.38	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.4	0.65	ug/kg	
124-48-1	Dibromochloromethane	ND	2.4	0.24	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.2	0.15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.2	0.19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.2	0.27	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.0	0.43	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.2	0.17	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.16	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.2	0.70	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.2	0.93	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.2	0.71	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.4	0.28	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	0.14	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	0.21	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.19	ug/kg	
76-13-1	Freon 113	ND	6.0	0.53	ug/kg	
591-78-6	2-Hexanone	ND	6.0	1.6	ug/kg	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB2-1		
Lab Sample ID:	JB94209-3	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	84.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.4	0.13	ug/kg	
79-20-9	Methyl Acetate	ND	6.0	1.0	ug/kg	
108-87-2	Methylcyclohexane	ND	2.4	0.27	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.18	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.0	0.55	ug/kg	
75-09-2	Methylene chloride	ND	6.0	1.2	ug/kg	
100-42-5	Styrene	ND	2.4	0.21	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	0.21	ug/kg	
127-18-4	Tetrachloroethene	ND	2.4	0.36	ug/kg	
108-88-3	Toluene	ND	1.2	0.25	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.0	0.21	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.0	0.20	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.4	0.18	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.4	0.18	ug/kg	
79-01-6	Trichloroethene	ND	1.2	0.18	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.0	0.30	ug/kg	
75-01-4	Vinyl chloride	ND	2.4	0.23	ug/kg	
	m,p-Xylene	ND	1.2	0.42	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.33	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		70-122%
17060-07-0	1,2-Dichloroethane-D4	96%		68-124%
2037-26-5	Toluene-D8	93%		77-125%
460-00-4	4-Bromofluorobenzene	105%		72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB2-1		
Lab Sample ID:	JB94209-3	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	84.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P48480.D	1	05/11/15	SD	05/09/15	OP83787	E2P2069
Run #2	2P48481.D	10	05/11/15	SD	05/09/15	OP83787	E2P2069

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2	30.5 g	1.0 ml

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	78	39	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	200	39	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	200	63	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	200	66	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	200	48	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	200	48	ug/kg	
95-48-7	2-Methylphenol	ND	78	44	ug/kg	
	3&4-Methylphenol	ND	78	50	ug/kg	
88-75-5	2-Nitrophenol	ND	200	41	ug/kg	
100-02-7	4-Nitrophenol	ND	390	66	ug/kg	
87-86-5	Pentachlorophenol	ND	200	67	ug/kg	
108-95-2	Phenol	ND	78	41	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	200	40	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	200	45	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	200	37	ug/kg	
83-32-9	Acenaphthene	574	39	11	ug/kg	
208-96-8	Acenaphthylene	1560	39	12	ug/kg	
98-86-2	Acetophenone	ND	200	6.9	ug/kg	
120-12-7	Anthracene	2790	39	14	ug/kg	
1912-24-9	Atrazine	ND	78	7.7	ug/kg	
56-55-3	Benzo(a)anthracene	9980 [a]	390	130	ug/kg	
50-32-8	Benzo(a)pyrene	8200 [a]	390	120	ug/kg	
205-99-2	Benzo(b)fluoranthene	10200 [a]	390	130	ug/kg	
191-24-2	Benzo(g,h,i)perylene	3810 [a]	390	150	ug/kg	
207-08-9	Benzo(k)fluoranthene	2500	39	15	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	78	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	78	23	ug/kg	
92-52-4	1,1'-Biphenyl	48.3	78	4.5	ug/kg	J
100-52-7	Benzaldehyde	ND	200	9.0	ug/kg	
91-58-7	2-Chloronaphthalene	ND	78	12	ug/kg	
106-47-8	4-Chloroaniline	ND	200	12	ug/kg	
86-74-8	Carbazole	1150	78	18	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB2-1		
Lab Sample ID:	JB94209-3	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	84.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	78	12	ug/kg	
218-01-9	Chrysene	10400 [a]	390	130	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	78	16	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	78	12	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	78	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	78	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	39	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	39	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	78	9.9	ug/kg	
123-91-1	1,4-Dioxane	ND	39	25	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	1950	39	13	ug/kg	
132-64-9	Dibenzofuran	461	78	12	ug/kg	
84-74-2	Di-n-butyl phthalate	80.8	78	8.7	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	78	19	ug/kg	
84-66-2	Diethyl phthalate	ND	78	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	78	14	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	78	34	ug/kg	
206-44-0	Fluoranthene	18000 [a]	390	170	ug/kg	
86-73-7	Fluorene	742	39	13	ug/kg	
118-74-1	Hexachlorobenzene	ND	78	13	ug/kg	
87-68-3	Hexachlorobutadiene	ND	39	11	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	390	40	ug/kg	
67-72-1	Hexachloroethane	ND	200	11	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	3550 [a]	390	140	ug/kg	
78-59-1	Isophorone	ND	78	10	ug/kg	
91-57-6	2-Methylnaphthalene	178	78	22	ug/kg	
88-74-4	2-Nitroaniline	ND	200	17	ug/kg	
99-09-2	3-Nitroaniline	ND	200	16	ug/kg	
100-01-6	4-Nitroaniline	ND	200	15	ug/kg	
91-20-3	Naphthalene	388	39	11	ug/kg	
98-95-3	Nitrobenzene	ND	78	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	78	9.5	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	200	23	ug/kg	
85-01-8	Phenanthrene	12200 [a]	390	180	ug/kg	
129-00-0	Pyrene	20800 [a]	390	150	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	200	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	56%	45%	22-121%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB2-1		
Lab Sample ID:	JB94209-3	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	84.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	52%	47%	27-119%
118-79-6	2,4,6-Tribromophenol	67%	59%	17-158%
4165-60-0	Nitrobenzene-d5	67%	64%	33-127%
321-60-8	2-Fluorobiphenyl	65%	61%	41-121%
1718-51-0	Terphenyl-d14	62%	74%	44-137%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	3.81	1100	ug/kg	J
	unknown	9.03	460	ug/kg	J
483-65-8	Phenanthrene, 1-methyl-7-(1-methylethyl)	10.00	1100	ug/kg	JN
	Pyrene methyl	10.18	790	ug/kg	J
	unknown	10.74	460	ug/kg	J
	unknown	12.31	1200	ug/kg	J
	unknown	12.44	930	ug/kg	J
	unknown	12.54	3100	ug/kg	J
	unknown PAH substance	12.88	2700	ug/kg	J
	unknown	13.00	2200	ug/kg	J
	unknown PAH substance	13.11	7800	ug/kg	J
	unknown	13.45	1000	ug/kg	J
	unknown	13.59	960	ug/kg	J
	unknown	13.79	1400	ug/kg	J
	unknown	13.94	740	ug/kg	J
	unknown	14.27	1600	ug/kg	J
	unknown	14.33	1200	ug/kg	J
	unknown	14.42	2000	ug/kg	J
	unknown PAH substance	14.69	1300	ug/kg	J
	Dibenzophenanthrene	14.74	2700	ug/kg	J
	unknown	14.84	700	ug/kg	J
	unknown PAH substance	15.08	1600	ug/kg	J
	unknown	15.49	760	ug/kg	J
	unknown	15.78	1600	ug/kg	J
	Dibenzopyrene	16.61	2500	ug/kg	J
	Total TIC, Semi-Volatile		41900	ug/kg	J

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB2-1		
Lab Sample ID:	JB94209-3	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8081B SW846 3546	**Percent Solids:**	84.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G56092.D	1	05/14/15	RK	05/14/15	OP83920	G4G1469
Run #2	6G22920.D	100	05/14/15	RK	05/14/15	OP83920	G6G684

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2	15.3 g	10.0 ml

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.78	0.36	ug/kg	
319-84-6	alpha-BHC [a]	1.4	0.78	0.23	ug/kg	
319-85-7	beta-BHC	ND	0.78	0.48	ug/kg	
319-86-8	delta-BHC	2.3	0.78	0.38	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.78	0.38	ug/kg	
5103-71-9	alpha-Chlordane [a]	15.8	0.78	0.29	ug/kg	
5103-74-2	gamma-Chlordane	15.3	0.78	0.54	ug/kg	
60-57-1	Dieldrin	13.5	0.78	0.30	ug/kg	
72-54-8	4,4'-DDD	343 [b]	78	42	ug/kg	
72-55-9	4,4'-DDE	693 [b]	78	31	ug/kg	
50-29-3	4,4'-DDT	3030 [b]	78	38	ug/kg	
72-20-8	Endrin	ND	0.78	0.25	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.78	0.33	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.78	0.41	ug/kg	
959-98-8	Endosulfan-I	ND	0.78	0.29	ug/kg	
33213-65-9	Endosulfan-II	ND	0.78	0.47	ug/kg	
76-44-8	Heptachlor	ND	0.78	0.38	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.78	0.29	ug/kg	
72-43-5	Methoxychlor [a]	26.3	1.6	0.76	ug/kg	
53494-70-5	Endrin ketone	ND	0.78	0.32	ug/kg	
8001-35-2	Toxaphene	ND	19	9.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	97%	0% [c]	10-129%
877-09-8	Tetrachloro-m-xylene	94%	0% [c]	10-129%
2051-24-3	Decachlorobiphenyl	683% [d]	0% [c]	10-144%
2051-24-3	Decachlorobiphenyl	1137% [d]	0% [c]	10-144%

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Result is from Run# 2
(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB2-1		
Lab Sample ID:	JB94209-3	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8081B SW846 3546	**Percent Solids:**	84.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q

(d) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB2-1		
Lab Sample ID:	JB94209-3	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8082A SW846 3546	**Percent Solids:**	84.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G113708.D	1	05/11/15	DG	05/10/15	OP83802	G2G3349
Run #2							

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	9.8	ug/kg	
11104-28-2	Aroclor 1221	ND	38	23	ug/kg	
11141-16-5	Aroclor 1232	ND	38	19	ug/kg	
53469-21-9	Aroclor 1242	ND	38	12	ug/kg	
12672-29-6	Aroclor 1248	ND	38	11	ug/kg	
11097-69-1	Aroclor 1254	ND	38	18	ug/kg	
11096-82-5	Aroclor 1260	ND	38	12	ug/kg	
11100-14-4	Aroclor 1268	ND	38	11	ug/kg	
37324-23-5	Aroclor 1262	ND	38	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	75%		14-139%
877-09-8	Tetrachloro-m-xylene	58%		14-139%
2051-24-3	Decachlorobiphenyl	198% [a]		10-155%
2051-24-3	Decachlorobiphenyl	741% [a]		10-155%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB2-1		
Lab Sample ID:	JB94209-3	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
		Percent Solids:	84.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	6230	59	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Antimony	< 2.4	2.4	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Arsenic	5.8	2.4	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Barium	56.6	24	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Beryllium	0.51	0.24	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Cadmium	< 0.59	0.59	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Calcium	1980	590	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Chromium	13.9	1.2	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Cobalt	7.2	5.9	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Copper	32.0	2.9	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Iron	13300	59	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Lead	117	2.4	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Magnesium	3660	590	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Manganese	372	1.8	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Mercury	0.42	0.037	mg/kg	1	05/12/15	05/12/15	DP	SW846 7471B [2]	SW846 7471B [4]
Nickel	42.8	4.7	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Potassium	< 1200	1200	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Selenium	< 2.4	2.4	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Silver	< 0.59	0.59	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Sodium	< 1200	1200	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Thallium	< 1.2	1.2	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Vanadium	18.2	5.9	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Zinc	535	5.9	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA36629
(2) Instrument QC Batch: MA36633
(3) Prep QC Batch: MP86349
(4) Prep QC Batch: MP86397

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB2-2		
Lab Sample ID:	JB94209-4	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	84.1
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I203962.D	1	05/09/15	SJM	n/a	n/a	VI8195
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	2.7	ug/kg	
71-43-2	Benzene	ND	0.59	0.16	ug/kg	
74-97-5	Bromochloromethane	ND	5.9	0.37	ug/kg	
75-27-4	Bromodichloromethane	ND	2.4	0.19	ug/kg	
75-25-2	Bromoform	ND	5.9	0.28	ug/kg	
74-83-9	Bromomethane	ND	5.9	0.43	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	2.3	ug/kg	
75-15-0	Carbon disulfide	ND	2.4	0.27	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.4	0.27	ug/kg	
108-90-7	Chlorobenzene	ND	2.4	0.18	ug/kg	
75-00-3	Chloroethane	ND	5.9	0.57	ug/kg	
67-66-3	Chloroform	ND	2.4	0.18	ug/kg	
74-87-3	Chloromethane	ND	5.9	0.31	ug/kg	
110-82-7	Cyclohexane	ND	2.4	0.38	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.4	0.65	ug/kg	
124-48-1	Dibromochloromethane	ND	2.4	0.24	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.2	0.15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.2	0.19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.2	0.27	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.9	0.43	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.2	0.17	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.16	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.2	0.70	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.2	0.93	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.2	0.71	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.4	0.28	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	0.14	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	0.21	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.19	ug/kg	
76-13-1	Freon 113	ND	5.9	0.53	ug/kg	
591-78-6	2-Hexanone	ND	5.9	1.6	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB2-2		
Lab Sample ID:	JB94209-4	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	84.1
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.4	0.13	ug/kg	
79-20-9	Methyl Acetate	ND	5.9	1.0	ug/kg	
108-87-2	Methylcyclohexane	ND	2.4	0.27	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.18	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.9	0.55	ug/kg	
75-09-2	Methylene chloride	ND	5.9	1.2	ug/kg	
100-42-5	Styrene	ND	2.4	0.21	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	0.21	ug/kg	
127-18-4	Tetrachloroethene	ND	2.4	0.36	ug/kg	
108-88-3	Toluene	ND	1.2	0.25	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.9	0.21	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.9	0.20	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.4	0.18	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.4	0.17	ug/kg	
79-01-6	Trichloroethene	ND	1.2	0.17	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.9	0.30	ug/kg	
75-01-4	Vinyl chloride	ND	2.4	0.23	ug/kg	
	m,p-Xylene	ND	1.2	0.42	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.33	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		70-122%
17060-07-0	1,2-Dichloroethane-D4	95%		68-124%
2037-26-5	Toluene-D8	93%		77-125%
460-00-4	4-Bromofluorobenzene	96%		72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB2-2		
Lab Sample ID:	JB94209-4	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	84.1
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P48479.D	1	05/11/15	SD	05/09/15	OP83787	E2P2069
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	78	39	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	200	39	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	200	63	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	200	66	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	200	48	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	200	48	ug/kg	
95-48-7	2-Methylphenol	ND	78	45	ug/kg	
	3&4-Methylphenol	ND	78	50	ug/kg	
88-75-5	2-Nitrophenol	ND	200	41	ug/kg	
100-02-7	4-Nitrophenol	ND	390	66	ug/kg	
87-86-5	Pentachlorophenol	ND	200	67	ug/kg	
108-95-2	Phenol	ND	78	41	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	200	40	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	200	45	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	200	37	ug/kg	
83-32-9	Acenaphthene	ND	39	11	ug/kg	
208-96-8	Acenaphthylene	ND	39	13	ug/kg	
98-86-2	Acetophenone	ND	200	6.9	ug/kg	
120-12-7	Anthracene	ND	39	14	ug/kg	
1912-24-9	Atrazine	ND	78	7.7	ug/kg	
56-55-3	Benzo(a)anthracene	ND	39	13	ug/kg	
50-32-8	Benzo(a)pyrene	ND	39	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	39	13	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	39	15	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	39	15	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	78	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	78	23	ug/kg	
92-52-4	1,1'-Biphenyl	ND	78	4.5	ug/kg	
100-52-7	Benzaldehyde	ND	200	9.0	ug/kg	
91-58-7	2-Chloronaphthalene	ND	78	12	ug/kg	
106-47-8	4-Chloroaniline	ND	200	13	ug/kg	
86-74-8	Carbazole	ND	78	18	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB2-2		
Lab Sample ID:	JB94209-4	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	84.1
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	78	12	ug/kg	
218-01-9	Chrysene	ND	39	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	78	16	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	78	12	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	78	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	78	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	39	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	39	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	78	9.9	ug/kg	
123-91-1	1,4-Dioxane	ND	39	25	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	39	13	ug/kg	
132-64-9	Dibenzofuran	ND	78	12	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	78	8.7	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	78	19	ug/kg	
84-66-2	Diethyl phthalate	ND	78	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	78	14	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	78	35	ug/kg	
206-44-0	Fluoranthene	ND	39	17	ug/kg	
86-73-7	Fluorene	ND	39	13	ug/kg	
118-74-1	Hexachlorobenzene	ND	78	13	ug/kg	
87-68-3	Hexachlorobutadiene	ND	39	11	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	390	40	ug/kg	
67-72-1	Hexachloroethane	ND	200	11	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	39	14	ug/kg	
78-59-1	Isophorone	ND	78	11	ug/kg	
91-57-6	2-Methylnaphthalene	ND	78	22	ug/kg	
88-74-4	2-Nitroaniline	ND	200	17	ug/kg	
99-09-2	3-Nitroaniline	ND	200	16	ug/kg	
100-01-6	4-Nitroaniline	ND	200	15	ug/kg	
91-20-3	Naphthalene	ND	39	11	ug/kg	
98-95-3	Nitrobenzene	ND	78	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	78	9.5	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	200	23	ug/kg	
85-01-8	Phenanthrene	ND	39	18	ug/kg	
129-00-0	Pyrene	ND	39	15	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	200	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	60%		22-121%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB2-2		
Lab Sample ID:	JB94209-4	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	84.1
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	60%		27-119%
118-79-6	2,4,6-Tribromophenol	60%		17-158%
4165-60-0	Nitrobenzene-d5	79%		33-127%
321-60-8	2-Fluorobiphenyl	76%		41-121%
1718-51-0	Terphenyl-d14	93%		44-137%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	2.88	570	ug/kg	J
	system artifact	3.70	180	ug/kg	J
	system artifact	3.82	280	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

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RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: SB2-2
Lab Sample ID: JB94209-4
Matrix: SO - Soil
Method: SW846 8081B SW846 3546
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Date Sampled: 05/07/15
Date Received: 05/07/15
Percent Solids: 84.1

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G56093.D	1	05/14/15	RK	05/14/15	OP83920	G4G1469
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.79	0.36	ug/kg	
319-84-6	alpha-BHC	ND	0.79	0.24	ug/kg	
319-85-7	beta-BHC	ND	0.79	0.49	ug/kg	
319-86-8	delta-BHC	ND	0.79	0.39	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.79	0.39	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.79	0.29	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.79	0.55	ug/kg	
60-57-1	Dieldrin	ND	0.79	0.31	ug/kg	
72-54-8	4,4'-DDD	ND	0.79	0.43	ug/kg	
72-55-9	4,4'-DDE	ND	0.79	0.32	ug/kg	
50-29-3	4,4'-DDT	ND	0.79	0.39	ug/kg	
72-20-8	Endrin	ND	0.79	0.26	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.79	0.34	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.79	0.41	ug/kg	
959-98-8	Endosulfan-I	ND	0.79	0.30	ug/kg	
33213-65-9	Endosulfan-II	ND	0.79	0.47	ug/kg	
76-44-8	Heptachlor	ND	0.79	0.39	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.79	0.30	ug/kg	
72-43-5	Methoxychlor	ND	1.6	0.78	ug/kg	
53494-70-5	Endrin ketone	ND	0.79	0.32	ug/kg	
8001-35-2	Toxaphene	ND	20	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		10-129%
877-09-8	Tetrachloro-m-xylene	80%		10-129%
2051-24-3	Decachlorobiphenyl	82%		10-144%
2051-24-3	Decachlorobiphenyl	55%		10-144%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB2-2		
Lab Sample ID:	JB94209-4	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8082A SW846 3546	**Percent Solids:**	84.1
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G113709.D	1	05/11/15	DG	05/10/15	OP83802	G2G3349
Run #2							

	Initial Weight	Final Volume
Run #1	16.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	9.5	ug/kg	
11104-28-2	Aroclor 1221	ND	37	22	ug/kg	
11141-16-5	Aroclor 1232	ND	37	19	ug/kg	
53469-21-9	Aroclor 1242	ND	37	12	ug/kg	
12672-29-6	Aroclor 1248	ND	37	11	ug/kg	
11097-69-1	Aroclor 1254	ND	37	17	ug/kg	
11096-82-5	Aroclor 1260	ND	37	12	ug/kg	
11100-14-4	Aroclor 1268	ND	37	11	ug/kg	
37324-23-5	Aroclor 1262	ND	37	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	102%		14-139%
877-09-8	Tetrachloro-m-xylene	80%		14-139%
2051-24-3	Decachlorobiphenyl	63%		10-155%
2051-24-3	Decachlorobiphenyl	64%		10-155%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB2-2		
Lab Sample ID:	JB94209-4	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
		Percent Solids:	84.1
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	4990	57	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Antimony	< 2.3	2.3	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Arsenic	5.3	2.3	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Barium	29.3	23	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Beryllium	0.35	0.23	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Cadmium	< 0.57	0.57	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Calcium	10800	570	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Chromium	10.4	1.1	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Cobalt	< 5.7	5.7	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Copper	18.9	2.9	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Iron	12200	57	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Lead	28.0	2.3	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Magnesium	6970	570	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Manganese	96.4	1.7	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Mercury	0.038	0.037	mg/kg	1	05/12/15	05/12/15	DP	SW846 7471B [2]	SW846 7471B [4]
Nickel	20.9	4.6	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Selenium	< 2.3	2.3	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Silver	< 0.57	0.57	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Vanadium	15.0	5.7	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Zinc	256	5.7	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA36629
(2) Instrument QC Batch: MA36633
(3) Prep QC Batch: MP86349
(4) Prep QC Batch: MP86397

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB3-1		
Lab Sample ID:	JB94209-5	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	87.6
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I203963.D	1	05/09/15	SJM	n/a	n/a	VI8195
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	123	11	2.6	ug/kg	
71-43-2	Benzene	ND	0.57	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	5.7	0.35	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	0.18	ug/kg	
75-25-2	Bromoform	ND	5.7	0.27	ug/kg	
74-83-9	Bromomethane	ND	5.7	0.42	ug/kg	
78-93-3	2-Butanone (MEK)	16.9	11	2.2	ug/kg	
75-15-0	Carbon disulfide	1.7	2.3	0.26	ug/kg	J
56-23-5	Carbon tetrachloride	ND	2.3	0.26	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	0.18	ug/kg	
75-00-3	Chloroethane	ND	5.7	0.55	ug/kg	
67-66-3	Chloroform	ND	2.3	0.17	ug/kg	
74-87-3	Chloromethane	ND	5.7	0.30	ug/kg	
110-82-7	Cyclohexane	ND	2.3	0.36	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.3	0.62	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	0.23	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.15	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.14	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.18	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.26	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.7	0.41	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.1	0.16	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.15	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.1	0.68	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.89	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.68	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	0.27	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	0.13	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	0.20	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.19	ug/kg	
76-13-1	Freon 113	ND	5.7	0.51	ug/kg	
591-78-6	2-Hexanone	ND	5.7	1.5	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB3-1		
Lab Sample ID:	JB94209-5	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	87.6
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.3	0.12	ug/kg	
79-20-9	Methyl Acetate	ND	5.7	0.98	ug/kg	
108-87-2	Methylcyclohexane	ND	2.3	0.26	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.17	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.7	0.52	ug/kg	
75-09-2	Methylene chloride	ND	5.7	1.1	ug/kg	
100-42-5	Styrene	ND	2.3	0.20	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	0.20	ug/kg	
127-18-4	Tetrachloroethene	ND	2.3	0.34	ug/kg	
108-88-3	Toluene	ND	1.1	0.24	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.7	0.20	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.7	0.19	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	0.17	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	0.17	ug/kg	
79-01-6	Trichloroethene	ND	1.1	0.17	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.7	0.28	ug/kg	
75-01-4	Vinyl chloride	ND	2.3	0.22	ug/kg	
	m,p-Xylene	ND	1.1	0.40	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.31	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.31	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		70-122%
17060-07-0	1,2-Dichloroethane-D4	100%		68-124%
2037-26-5	Toluene-D8	91%		77-125%
460-00-4	4-Bromofluorobenzene	100%		72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
91-20-3	Naphthalene	18.17	13	ug/kg	JN
	Total TIC, Volatile		13	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB3-1		
Lab Sample ID:	JB94209-5	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	87.6
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P48482.D	1	05/11/15	SD	05/09/15	OP83787	E2P2069
Run #2	2P48483.D	10	05/11/15	SD	05/09/15	OP83787	E2P2069

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2	30.4 g	1.0 ml

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	75	38	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	38	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	60	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	63	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	190	46	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	190	46	ug/kg	
95-48-7	2-Methylphenol	ND	75	43	ug/kg	
	3&4-Methylphenol	ND	75	48	ug/kg	
88-75-5	2-Nitrophenol	ND	190	40	ug/kg	
100-02-7	4-Nitrophenol	ND	380	63	ug/kg	
87-86-5	Pentachlorophenol	ND	190	64	ug/kg	
108-95-2	Phenol	ND	75	39	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	39	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	44	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	35	ug/kg	
83-32-9	Acenaphthene	1630	38	11	ug/kg	
208-96-8	Acenaphthylene	365	38	12	ug/kg	
98-86-2	Acetophenone	ND	190	6.6	ug/kg	
120-12-7	Anthracene	4290 [a]	380	130	ug/kg	
1912-24-9	Atrazine	ND	75	7.4	ug/kg	
56-55-3	Benzo(a)anthracene	10600 [a]	380	120	ug/kg	
50-32-8	Benzo(a)pyrene	8700 [a]	380	110	ug/kg	
205-99-2	Benzo(b)fluoranthene	11100 [a]	380	130	ug/kg	
191-24-2	Benzo(g,h,i)perylene	4670 [a]	380	140	ug/kg	
207-08-9	Benzo(k)fluoranthene	2690	38	14	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	75	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	75	22	ug/kg	
92-52-4	1,1'-Biphenyl	140	75	4.4	ug/kg	
100-52-7	Benzaldehyde	32.2	190	8.6	ug/kg	J
91-58-7	2-Chloronaphthalene	ND	75	12	ug/kg	
106-47-8	4-Chloroaniline	ND	190	12	ug/kg	
86-74-8	Carbazole	1970	75	17	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB3-1		
Lab Sample ID:	JB94209-5	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	87.6
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	75	12	ug/kg	
218-01-9	Chrysene	10200 [a]	380	130	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	75	15	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	75	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	75	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	75	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	38	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	38	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	75	9.5	ug/kg	
123-91-1	1,4-Dioxane	ND	38	24	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	1810	38	13	ug/kg	
132-64-9	Dibenzofuran	1150	75	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	75	8.3	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	75	18	ug/kg	
84-66-2	Diethyl phthalate	ND	75	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	75	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	191	75	33	ug/kg	
206-44-0	Fluoranthene	23400 [a]	380	170	ug/kg	
86-73-7	Fluorene	1860	38	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	75	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	38	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	380	38	ug/kg	
67-72-1	Hexachloroethane	ND	190	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	4350 [a]	380	130	ug/kg	
78-59-1	Isophorone	ND	75	10	ug/kg	
91-57-6	2-Methylnaphthalene	471	75	21	ug/kg	
88-74-4	2-Nitroaniline	ND	190	17	ug/kg	
99-09-2	3-Nitroaniline	ND	190	15	ug/kg	
100-01-6	4-Nitroaniline	ND	190	15	ug/kg	
91-20-3	Naphthalene	1120	38	10	ug/kg	
98-95-3	Nitrobenzene	ND	75	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	75	9.2	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	22	ug/kg	
85-01-8	Phenanthrene	21600 [a]	380	170	ug/kg	
129-00-0	Pyrene	23600 [a]	380	140	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	57%	66%	22-121%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB3-1		
Lab Sample ID:	JB94209-5	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	87.6
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	54%	61%	27-119%
118-79-6	2,4,6-Tribromophenol	67%	71%	17-158%
4165-60-0	Nitrobenzene-d5	67%	77%	33-127%
321-60-8	2-Fluorobiphenyl	67%	72%	41-121%
1718-51-0	Terphenyl-d14	62%	88%	44-137%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	2.88	770	ug/kg	J
90-12-0	Naphthalene, 1-methyl-	6.04	460	ug/kg	JN
	Naphthalene dimethyl	6.54	300	ug/kg	J
	unknown	7.33	430	ug/kg	J
	unknown	7.39	380	ug/kg	J
	unknown	8.66	230	ug/kg	J
	Pyrene methyl	10.17	280	ug/kg	J
	Chrysene methyl	11.82	230	ug/kg	J
	unknown	12.30	510	ug/kg	J
	unknown	12.53	1000	ug/kg	J
	unknown PAH substance	12.87	1800	ug/kg	J
	unknown	13.03	1500	ug/kg	J
	unknown PAH substance	13.11	5200	ug/kg	J
	unknown	13.44	620	ug/kg	J
	unknown	13.49	560	ug/kg	J
	unknown	13.79	750	ug/kg	J
	unknown PAH substance	14.19	360	ug/kg	J
	unknown	14.27	710	ug/kg	J
	unknown PAH substance	14.41	1200	ug/kg	J
	unknown PAH substance	14.69	990	ug/kg	J
	unknown PAH substance	14.73	1600	ug/kg	J
	unknown PAH substance	15.07	1300	ug/kg	J
	unknown	15.49	450	ug/kg	J
	unknown	15.78	930	ug/kg	J
	Dibenzopyrene	16.60	2000	ug/kg	J
	Total TIC, Semi-Volatile		23790	ug/kg	J

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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Accutest Laboratories

Report of Analysis

Client Sample ID:	SB3-1		
Lab Sample ID:	JB94209-5	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8081B SW846 3546	**Percent Solids:**	87.6
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G56094.D	1	05/14/15	RK	05/14/15	OP83920	G4G1469
Run #2	4G56110.D	5	05/14/15	RK	05/14/15	OP83920	G4G1469

	Initial Weight	Final Volume
Run #1	16.3 g	10.0 ml
Run #2	16.3 g	10.0 ml

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.70	0.32	ug/kg	
319-84-6	alpha-BHC	ND	0.70	0.21	ug/kg	
319-85-7	beta-BHC	ND	0.70	0.44	ug/kg	
319-86-8	delta-BHC	ND	0.70	0.35	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.70	0.34	ug/kg	
5103-71-9	alpha-Chlordane	131 [a]	3.5	1.3	ug/kg	
5103-74-2	gamma-Chlordane	98.3 [a]	3.5	2.4	ug/kg	
60-57-1	Dieldrin	ND	0.70	0.27	ug/kg	
72-54-8	4,4'-DDD	17.8	0.70	0.38	ug/kg	
72-55-9	4,4'-DDE	4.9	0.70	0.28	ug/kg	
50-29-3	4,4'-DDT	10.8	0.70	0.35	ug/kg	
72-20-8	Endrin	ND	0.70	0.23	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.70	0.30	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.70	0.37	ug/kg	
959-98-8	Endosulfan-I	ND	0.70	0.27	ug/kg	
33213-65-9	Endosulfan-II	ND	0.70	0.42	ug/kg	
76-44-8	Heptachlor	ND	0.70	0.34	ug/kg	
1024-57-3	Heptachlor epoxide [b]	2.3	0.70	0.26	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.69	ug/kg	
53494-70-5	Endrin ketone	ND	0.70	0.29	ug/kg	
8001-35-2	Toxaphene	ND	18	8.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	63%	79%	10-129%
877-09-8	Tetrachloro-m-xylene	60%	64%	10-129%
2051-24-3	Decachlorobiphenyl	336% [c]	316%	10-144%
2051-24-3	Decachlorobiphenyl	479% [c]	367%	10-144%

(a) Result is from Run# 2
(b) More than 40 % RPD for detected concentrations between the two GC columns.
(c) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB3-1		
Lab Sample ID:	JB94209-5	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8082A SW846 3546	**Percent Solids:**	87.6
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G113710.D	1	05/11/15	DG	05/10/15	OP83802	G2G3349
Run #2							

	Initial Weight	Final Volume
Run #1	16.6 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	34	8.9	ug/kg	
11104-28-2	Aroclor 1221	ND	34	21	ug/kg	
11141-16-5	Aroclor 1232	ND	34	17	ug/kg	
53469-21-9	Aroclor 1242	ND	34	11	ug/kg	
12672-29-6	Aroclor 1248	ND	34	10	ug/kg	
11097-69-1	Aroclor 1254	ND	34	16	ug/kg	
11096-82-5	Aroclor 1260	ND	34	11	ug/kg	
11100-14-4	Aroclor 1268	ND	34	10	ug/kg	
37324-23-5	Aroclor 1262	ND	34	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	59%		14-139%
877-09-8	Tetrachloro-m-xylene	42%		14-139%
2051-24-3	Decachlorobiphenyl	112%		10-155%
2051-24-3	Decachlorobiphenyl	350% [a]		10-155%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB3-1		
Lab Sample ID:	JB94209-5	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
		Percent Solids:	87.6
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	10100	55	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Antimony	< 2.2	2.2	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Arsenic	8.5	2.2	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Barium	146	22	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Beryllium	0.59	0.22	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Cadmium	1.4	0.55	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Calcium	7870	550	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Chromium	20.9	1.1	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Cobalt	7.8	5.5	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Copper	99.2	2.8	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Iron	22700	55	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Lead	416	2.2	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Magnesium	3480	550	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Manganese	261	1.7	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Mercury	1.5	0.19	mg/kg	5	05/12/15	05/12/15	DP	SW846 7471B [2]	SW846 7471B [4]
Nickel	40.2	4.4	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Selenium	< 2.2	2.2	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Silver	0.55	0.55	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Vanadium	30.2	5.5	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Zinc	411	5.5	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA36629
(2) Instrument QC Batch: MA36633
(3) Prep QC Batch: MP86349
(4) Prep QC Batch: MP86397

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB3-2		
Lab Sample ID:	JB94209-6	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	89.3
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I203964.D	1	05/09/15	SJM	n/a	n/a	VI8195
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	128	11	2.5	ug/kg	
71-43-2	Benzene	ND	0.56	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	5.6	0.35	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	0.17	ug/kg	
75-25-2	Bromoform	ND	5.6	0.26	ug/kg	
74-83-9	Bromomethane	ND	5.6	0.41	ug/kg	
78-93-3	2-Butanone (MEK)	19.5	11	2.1	ug/kg	
75-15-0	Carbon disulfide	0.63	2.2	0.26	ug/kg	J
56-23-5	Carbon tetrachloride	ND	2.2	0.26	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	0.17	ug/kg	
75-00-3	Chloroethane	ND	5.6	0.54	ug/kg	
67-66-3	Chloroform	ND	2.2	0.17	ug/kg	
74-87-3	Chloromethane	ND	5.6	0.29	ug/kg	
110-82-7	Cyclohexane	ND	2.2	0.35	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.2	0.61	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	0.23	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.15	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.14	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.18	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.25	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.6	0.40	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.1	0.16	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.15	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.1	0.66	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.87	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.67	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	0.27	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	0.13	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	0.20	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.18	ug/kg	
76-13-1	Freon 113	ND	5.6	0.50	ug/kg	
591-78-6	2-Hexanone	ND	5.6	1.5	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB3-2		
Lab Sample ID:	JB94209-6	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	89.3
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.2	0.12	ug/kg	
79-20-9	Methyl Acetate	ND	5.6	0.96	ug/kg	
108-87-2	Methylcyclohexane	ND	2.2	0.25	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.17	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.6	0.51	ug/kg	
75-09-2	Methylene chloride	ND	5.6	1.1	ug/kg	
100-42-5	Styrene	ND	2.2	0.20	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	0.20	ug/kg	
127-18-4	Tetrachloroethene	ND	2.2	0.34	ug/kg	
108-88-3	Toluene	ND	1.1	0.23	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.6	0.20	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	0.19	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.2	0.17	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	0.16	ug/kg	
79-01-6	Trichloroethene	ND	1.1	0.16	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.6	0.28	ug/kg	
75-01-4	Vinyl chloride	ND	2.2	0.22	ug/kg	
	m,p-Xylene	ND	1.1	0.39	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.31	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.31	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		70-122%
17060-07-0	1,2-Dichloroethane-D4	99%		68-124%
2037-26-5	Toluene-D8	95%		77-125%
460-00-4	4-Bromofluorobenzene	94%		72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB3-2		
Lab Sample ID:	JB94209-6	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	89.3
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P48474.D	1	05/11/15	SD	05/09/15	OP83787	E2P2069
Run #2							

	Initial Weight	Final Volume
Run #1	31.0 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	72	36	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	36	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	58	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	61	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	180	44	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	180	44	ug/kg	
95-48-7	2-Methylphenol	ND	72	41	ug/kg	
	3&4-Methylphenol	ND	72	46	ug/kg	
88-75-5	2-Nitrophenol	ND	180	38	ug/kg	
100-02-7	4-Nitrophenol	ND	360	61	ug/kg	
87-86-5	Pentachlorophenol	ND	180	62	ug/kg	
108-95-2	Phenol	ND	72	38	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	37	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	42	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	34	ug/kg	
83-32-9	Acenaphthene	ND	36	10	ug/kg	
208-96-8	Acenaphthylene	ND	36	12	ug/kg	
98-86-2	Acetophenone	ND	180	6.4	ug/kg	
120-12-7	Anthracene	ND	36	13	ug/kg	
1912-24-9	Atrazine	ND	72	7.1	ug/kg	
56-55-3	Benzo(a)anthracene	18.3	36	12	ug/kg	J
50-32-8	Benzo(a)pyrene	ND	36	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	15.0	36	12	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	ND	36	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	36	14	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	72	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	72	21	ug/kg	
92-52-4	1,1'-Biphenyl	ND	72	4.2	ug/kg	
100-52-7	Benzaldehyde	ND	180	8.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	72	11	ug/kg	
106-47-8	4-Chloroaniline	ND	180	12	ug/kg	
86-74-8	Carbazole	ND	72	17	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB3-2		
Lab Sample ID:	JB94209-6	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	89.3
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	72	11	ug/kg	
218-01-9	Chrysene	15.1	36	12	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	72	15	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	72	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	72	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	72	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	36	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	36	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	72	9.2	ug/kg	
123-91-1	1,4-Dioxane	ND	36	23	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	36	12	ug/kg	
132-64-9	Dibenzofuran	ND	72	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	72	8.0	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	72	18	ug/kg	
84-66-2	Diethyl phthalate	ND	72	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	72	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	72	32	ug/kg	
206-44-0	Fluoranthene	28.3	36	16	ug/kg	J
86-73-7	Fluorene	ND	36	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	72	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	36	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	360	37	ug/kg	
67-72-1	Hexachloroethane	ND	180	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	36	13	ug/kg	
78-59-1	Isophorone	ND	72	9.7	ug/kg	
91-57-6	2-Methylnaphthalene	ND	72	20	ug/kg	
88-74-4	2-Nitroaniline	ND	180	16	ug/kg	
99-09-2	3-Nitroaniline	ND	180	14	ug/kg	
100-01-6	4-Nitroaniline	ND	180	14	ug/kg	
91-20-3	Naphthalene	ND	36	9.9	ug/kg	
98-95-3	Nitrobenzene	ND	72	10	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	72	8.8	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	22	ug/kg	
85-01-8	Phenanthrene	25.4	36	16	ug/kg	J
129-00-0	Pyrene	28.4	36	14	ug/kg	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	63%		22-121%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB3-2		
Lab Sample ID:	JB94209-6	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	89.3
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	59%		27-119%
118-79-6	2,4,6-Tribromophenol	69%		17-158%
4165-60-0	Nitrobenzene-d5	73%		33-127%
321-60-8	2-Fluorobiphenyl	70%		41-121%
1718-51-0	Terphenyl-d14	84%		44-137%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.55	210	ug/kg	J
	system artifact/aldol-condensation	2.89	500	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: SB3-2
Lab Sample ID: JB94209-6
Matrix: SO - Soil
Method: SW846 8081B SW846 3546
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Date Sampled: 05/07/15
Date Received: 05/07/15
Percent Solids: 89.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G56095.D	1	05/14/15	RK	05/14/15	OP83920	G4G1469
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.73	0.33	ug/kg	
319-84-6	alpha-BHC	ND	0.73	0.22	ug/kg	
319-85-7	beta-BHC	ND	0.73	0.45	ug/kg	
319-86-8	delta-BHC	ND	0.73	0.36	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.73	0.36	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.73	0.27	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.73	0.50	ug/kg	
60-57-1	Dieldrin	ND	0.73	0.28	ug/kg	
72-54-8	4,4'-DDD	ND	0.73	0.40	ug/kg	
72-55-9	4,4'-DDE	ND	0.73	0.29	ug/kg	
50-29-3	4,4'-DDT	ND	0.73	0.36	ug/kg	
72-20-8	Endrin	ND	0.73	0.24	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.73	0.31	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.73	0.38	ug/kg	
959-98-8	Endosulfan-I	ND	0.73	0.28	ug/kg	
33213-65-9	Endosulfan-II	ND	0.73	0.44	ug/kg	
76-44-8	Heptachlor	ND	0.73	0.35	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.73	0.27	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.71	ug/kg	
53494-70-5	Endrin ketone	ND	0.73	0.30	ug/kg	
8001-35-2	Toxaphene	ND	18	9.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		10-129%
877-09-8	Tetrachloro-m-xylene	83%		10-129%
2051-24-3	Decachlorobiphenyl	80%		10-144%
2051-24-3	Decachlorobiphenyl	62%		10-144%

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB3-2		
Lab Sample ID:	JB94209-6	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8082A SW846 3546	**Percent Solids:**	89.3
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G113715.D	1	05/11/15	DG	05/10/15	OP83802	G2G3349
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	9.6	ug/kg	
11104-28-2	Aroclor 1221	ND	37	22	ug/kg	
11141-16-5	Aroclor 1232	ND	37	19	ug/kg	
53469-21-9	Aroclor 1242	ND	37	12	ug/kg	
12672-29-6	Aroclor 1248	ND	37	11	ug/kg	
11097-69-1	Aroclor 1254	ND	37	17	ug/kg	
11096-82-5	Aroclor 1260	ND	37	12	ug/kg	
11100-14-4	Aroclor 1268	ND	37	11	ug/kg	
37324-23-5	Aroclor 1262	ND	37	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	113%		14-139%
877-09-8	Tetrachloro-m-xylene	93%		14-139%
2051-24-3	Decachlorobiphenyl	84%		10-155%
2051-24-3	Decachlorobiphenyl	68%		10-155%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB3-2		
Lab Sample ID:	JB94209-6	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
		Percent Solids:	89.3
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	12200	57	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Antimony	< 2.3	2.3	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Arsenic	4.2	2.3	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Barium	39.2	23	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Beryllium	0.40	0.23	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Cadmium	< 0.57	0.57	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Calcium	942	570	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Chromium	18.8	1.1	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Cobalt	7.3	5.7	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Copper	11.6	2.8	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Iron	18500	57	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Lead	14.2	2.3	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Magnesium	2910	570	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Manganese	297	1.7	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Mercury	0.58	0.036	mg/kg	1	05/12/15	05/12/15	DP	SW846 7471B [2]	SW846 7471B [4]
Nickel	20.4	4.5	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Selenium	< 2.3	2.3	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Silver	< 0.57	0.57	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Vanadium	23.1	5.7	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Zinc	48.5	5.7	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA36629
(2) Instrument QC Batch: MA36633
(3) Prep QC Batch: MP86349
(4) Prep QC Batch: MP86397

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB4-1		
Lab Sample ID:	JB94209-7	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	87.1
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I203965.D	1	05/09/15	SJM	n/a	n/a	VI8195
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	2.6	ug/kg	
71-43-2	Benzene	0.48	0.57	0.15	ug/kg	J
74-97-5	Bromochloromethane	ND	5.7	0.35	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	0.18	ug/kg	
75-25-2	Bromoform	ND	5.7	0.27	ug/kg	
74-83-9	Bromomethane	ND	5.7	0.42	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.2	ug/kg	
75-15-0	Carbon disulfide	ND	2.3	0.26	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	0.26	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	0.18	ug/kg	
75-00-3	Chloroethane	ND	5.7	0.55	ug/kg	
67-66-3	Chloroform	ND	2.3	0.17	ug/kg	
74-87-3	Chloromethane	ND	5.7	0.30	ug/kg	
110-82-7	Cyclohexane	ND	2.3	0.36	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.3	0.62	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	0.24	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.15	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.14	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.18	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.26	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.7	0.41	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.1	0.16	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.15	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.1	0.68	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.89	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.68	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	0.27	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	0.14	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	0.20	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.19	ug/kg	
76-13-1	Freon 113	ND	5.7	0.51	ug/kg	
591-78-6	2-Hexanone	ND	5.7	1.5	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB4-1		
Lab Sample ID:	JB94209-7	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	87.1
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.3	0.12	ug/kg	
79-20-9	Methyl Acetate	ND	5.7	0.99	ug/kg	
108-87-2	Methylcyclohexane	ND	2.3	0.26	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.18	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.7	0.53	ug/kg	
75-09-2	Methylene chloride	ND	5.7	1.1	ug/kg	
100-42-5	Styrene	ND	2.3	0.20	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	0.20	ug/kg	
127-18-4	Tetrachloroethene	ND	2.3	0.35	ug/kg	
108-88-3	Toluene	0.39	1.1	0.24	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.7	0.20	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.7	0.19	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	0.17	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	0.17	ug/kg	
79-01-6	Trichloroethene	ND	1.1	0.17	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.7	0.29	ug/kg	
75-01-4	Vinyl chloride	ND	2.3	0.23	ug/kg	
	m,p-Xylene	0.90	1.1	0.40	ug/kg	J
95-47-6	o-Xylene	0.74	1.1	0.31	ug/kg	J
1330-20-7	Xylene (total)	1.6	1.1	0.31	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		70-122%
17060-07-0	1,2-Dichloroethane-D4	98%		68-124%
2037-26-5	Toluene-D8	101%		77-125%
460-00-4	4-Bromofluorobenzene	98%		72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
496-11-7	Indane	16.12	6	ug/kg	JN
	Naphthalene	18.17	110	ug/kg	J
	Naphthalene, methyl- isomer	19.39	20	ug/kg	J
	Naphthalene, methyl- isomer	19.62	20	ug/kg	J
	Total TIC, Volatile		156	ug/kg	J

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB4-1		
Lab Sample ID:	JB94209-7	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	87.1
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P48484.D	1	05/11/15	SD	05/09/15	OP83787	E2P2069
Run #2							

	Initial Weight	Final Volume
Run #1	31.7 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	72	36	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	36	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	58	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	61	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	180	44	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	180	44	ug/kg	
95-48-7	2-Methylphenol	ND	72	41	ug/kg	
	3&4-Methylphenol	ND	72	46	ug/kg	
88-75-5	2-Nitrophenol	ND	180	38	ug/kg	
100-02-7	4-Nitrophenol	ND	360	61	ug/kg	
87-86-5	Pentachlorophenol	ND	180	62	ug/kg	
108-95-2	Phenol	ND	72	38	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	37	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	42	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	34	ug/kg	
83-32-9	Acenaphthene	28.6	36	11	ug/kg	J
208-96-8	Acenaphthylene	72.8	36	12	ug/kg	
98-86-2	Acetophenone	64.8	180	6.4	ug/kg	J
120-12-7	Anthracene	118	36	13	ug/kg	
1912-24-9	Atrazine	ND	72	7.1	ug/kg	
56-55-3	Benzo(a)anthracene	413	36	12	ug/kg	
50-32-8	Benzo(a)pyrene	431	36	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	566	36	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	298	36	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	156	36	14	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	72	13	ug/kg	
85-68-7	Butyl benzyl phthalate	44.6	72	21	ug/kg	J
92-52-4	1,1'-Biphenyl	ND	72	4.2	ug/kg	
100-52-7	Benzaldehyde	57.3	180	8.3	ug/kg	J
91-58-7	2-Chloronaphthalene	ND	72	11	ug/kg	
106-47-8	4-Chloroaniline	ND	180	12	ug/kg	
86-74-8	Carbazole	63.5	72	17	ug/kg	J

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB4-1		
Lab Sample ID:	JB94209-7	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	87.1
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	72	11	ug/kg	
218-01-9	Chrysene	435	36	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	72	15	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	72	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	72	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	72	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	36	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	36	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	72	9.2	ug/kg	
123-91-1	1,4-Dioxane	ND	36	24	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	79.3	36	12	ug/kg	
132-64-9	Dibenzofuran	27.0	72	11	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	72	8.0	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	72	18	ug/kg	
84-66-2	Diethyl phthalate	ND	72	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	72	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	93.7	72	32	ug/kg	
206-44-0	Fluoranthene	877	36	16	ug/kg	
86-73-7	Fluorene	42.5	36	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	72	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	36	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	360	37	ug/kg	
67-72-1	Hexachloroethane	ND	180	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	259	36	13	ug/kg	
78-59-1	Isophorone	ND	72	9.7	ug/kg	
91-57-6	2-Methylnaphthalene	ND	72	20	ug/kg	
88-74-4	2-Nitroaniline	ND	180	16	ug/kg	
99-09-2	3-Nitroaniline	ND	180	14	ug/kg	
100-01-6	4-Nitroaniline	ND	180	14	ug/kg	
91-20-3	Naphthalene	34.9	36	9.9	ug/kg	J
98-95-3	Nitrobenzene	ND	72	10	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	72	8.8	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	22	ug/kg	
85-01-8	Phenanthrene	598	36	16	ug/kg	
129-00-0	Pyrene	938	36	14	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		22-121%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB4-1		
Lab Sample ID:	JB94209-7	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	87.1
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	47%		27-119%
118-79-6	2,4,6-Tribromophenol	53%		17-158%
4165-60-0	Nitrobenzene-d5	60%		33-127%
321-60-8	2-Fluorobiphenyl	60%		41-121%
1718-51-0	Terphenyl-d14	66%		44-137%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	2.89	400	ug/kg	J
	system artifact	3.82	270	ug/kg	J
	unknown	8.65	250	ug/kg	J
	unknown PAH substance	13.06	370	ug/kg	J
	unknown	13.90	280	ug/kg	J
	unknown	14.29	330	ug/kg	J
	unknown PAH substance	15.02	350	ug/kg	J
	unknown	15.73	330	ug/kg	J
	unknown	16.55	170	ug/kg	J
	Total TIC, Semi-Volatile		2080	ug/kg	J

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB4-1		
Lab Sample ID:	JB94209-7	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8081B SW846 3546	**Percent Solids:**	87.1
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G56096.D	1	05/14/15	RK	05/14/15	OP83920	G4G1469
Run #2							

	Initial Weight	Final Volume
Run #1	16.8 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.68	0.31	ug/kg	
319-84-6	alpha-BHC	ND	0.68	0.20	ug/kg	
319-85-7	beta-BHC	ND	0.68	0.43	ug/kg	
319-86-8	delta-BHC	ND	0.68	0.34	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.68	0.33	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.68	0.25	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.68	0.47	ug/kg	
60-57-1	Dieldrin	ND	0.68	0.27	ug/kg	
72-54-8	4,4'-DDD [a]	2.1	0.68	0.37	ug/kg	
72-55-9	4,4'-DDE	0.99	0.68	0.28	ug/kg	
50-29-3	4,4'-DDT	7.2	0.68	0.34	ug/kg	
72-20-8	Endrin	ND	0.68	0.22	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.68	0.29	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.68	0.36	ug/kg	
959-98-8	Endosulfan-I	ND	0.68	0.26	ug/kg	
33213-65-9	Endosulfan-II	ND	0.68	0.41	ug/kg	
76-44-8	Heptachlor	ND	0.68	0.33	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.68	0.26	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.67	ug/kg	
53494-70-5	Endrin ketone	ND	0.68	0.28	ug/kg	
8001-35-2	Toxaphene	ND	17	8.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	75%		10-129%
877-09-8	Tetrachloro-m-xylene	73%		10-129%
2051-24-3	Decachlorobiphenyl	102%		10-144%
2051-24-3	Decachlorobiphenyl	97%		10-144%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB4-1		
Lab Sample ID:	JB94209-7	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8082A SW846 3546	**Percent Solids:**	87.1
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G113716.D	1	05/11/15	DG	05/10/15	OP83802	G2G3349
Run #2							

	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	9.6	ug/kg	
11104-28-2	Aroclor 1221	ND	37	22	ug/kg	
11141-16-5	Aroclor 1232	ND	37	19	ug/kg	
53469-21-9	Aroclor 1242	ND	37	12	ug/kg	
12672-29-6	Aroclor 1248	ND	37	11	ug/kg	
11097-69-1	Aroclor 1254	ND	37	17	ug/kg	
11096-82-5	Aroclor 1260	ND	37	12	ug/kg	
11100-14-4	Aroclor 1268	ND	37	11	ug/kg	
37324-23-5	Aroclor 1262	ND	37	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		14-139%
877-09-8	Tetrachloro-m-xylene	77%		14-139%
2051-24-3	Decachlorobiphenyl	94%		10-155%
2051-24-3	Decachlorobiphenyl	128%		10-155%

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB4-1		
Lab Sample ID:	JB94209-7	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
		Percent Solids:	87.1
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	8070	58	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Antimony	< 2.3	2.3	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Arsenic	8.5	2.3	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Barium	1890	23	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Beryllium	0.45	0.23	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Cadmium	0.80	0.58	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Calcium	3590	580	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Chromium	19.2	1.2	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Cobalt	8.8	5.8	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Copper	112	2.9	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Iron	19200	58	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Lead	3150	2.3	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Magnesium	3210	580	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Manganese	478	1.7	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Mercury	3.0	0.35	mg/kg	10	05/12/15	05/12/15	DP	SW846 7471B [2]	SW846 7471B [4]
Nickel	29.9	4.6	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Potassium	< 1200	1200	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Selenium	< 2.3	2.3	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Silver	0.97	0.58	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Sodium	< 1200	1200	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Thallium	< 1.2	1.2	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Vanadium	25.9	5.8	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Zinc	960	5.8	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA36629
(2) Instrument QC Batch: MA36633
(3) Prep QC Batch: MP86349
(4) Prep QC Batch: MP86397

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB4-2		
Lab Sample ID:	JB94209-8	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	84.8
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I203966.D	1	05/09/15	SJM	n/a	n/a	VI8195
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	2.6	ug/kg	
71-43-2	Benzene	ND	0.59	0.16	ug/kg	
74-97-5	Bromochloromethane	ND	5.9	0.36	ug/kg	
75-27-4	Bromodichloromethane	ND	2.4	0.18	ug/kg	
75-25-2	Bromoform	ND	5.9	0.28	ug/kg	
74-83-9	Bromomethane	ND	5.9	0.43	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	2.3	ug/kg	
75-15-0	Carbon disulfide	ND	2.4	0.27	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.4	0.27	ug/kg	
108-90-7	Chlorobenzene	ND	2.4	0.18	ug/kg	
75-00-3	Chloroethane	ND	5.9	0.57	ug/kg	
67-66-3	Chloroform	ND	2.4	0.18	ug/kg	
74-87-3	Chloromethane	ND	5.9	0.31	ug/kg	
110-82-7	Cyclohexane	ND	2.4	0.37	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.4	0.64	ug/kg	
124-48-1	Dibromochloromethane	ND	2.4	0.24	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.15	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.2	0.14	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.2	0.19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.2	0.27	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.9	0.43	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.2	0.17	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.16	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.2	0.70	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.2	0.92	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.2	0.70	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.4	0.28	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	0.14	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	0.21	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.19	ug/kg	
76-13-1	Freon 113	ND	5.9	0.53	ug/kg	
591-78-6	2-Hexanone	ND	5.9	1.6	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB4-2		
Lab Sample ID:	JB94209-8	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	84.8
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.4	0.13	ug/kg	
79-20-9	Methyl Acetate	ND	5.9	1.0	ug/kg	
108-87-2	Methylcyclohexane	ND	2.4	0.27	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.18	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.9	0.54	ug/kg	
75-09-2	Methylene chloride	ND	5.9	1.2	ug/kg	
100-42-5	Styrene	ND	2.4	0.21	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	0.21	ug/kg	
127-18-4	Tetrachloroethene	ND	2.4	0.35	ug/kg	
108-88-3	Toluene	ND	1.2	0.25	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.9	0.21	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.9	0.20	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.4	0.18	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.4	0.17	ug/kg	
79-01-6	Trichloroethene	ND	1.2	0.17	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.9	0.29	ug/kg	
75-01-4	Vinyl chloride	ND	2.4	0.23	ug/kg	
	m,p-Xylene	0.58	1.2	0.42	ug/kg	J
95-47-6	o-Xylene	ND	1.2	0.32	ug/kg	
1330-20-7	Xylene (total)	0.84	1.2	0.32	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		70-122%
17060-07-0	1,2-Dichloroethane-D4	98%		68-124%
2037-26-5	Toluene-D8	92%		77-125%
460-00-4	4-Bromofluorobenzene	95%		72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Naphthalene	18.17	130	ug/kg	J
	Naphthalene, methyl- isomer	19.39	39	ug/kg	J
	Naphthalene, methyl- isomer	19.62	24	ug/kg	J
	Total TIC, Volatile		193	ug/kg	J

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB4-2		
Lab Sample ID:	JB94209-8	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	84.8
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P48475.D	1	05/11/15	SD	05/09/15	OP83787	E2P2069
Run #2							

	Initial Weight	Final Volume
Run #1	30.6 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	77	39	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	39	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	62	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	65	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	190	47	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	190	47	ug/kg	
95-48-7	2-Methylphenol	ND	77	44	ug/kg	
	3&4-Methylphenol	ND	77	49	ug/kg	
88-75-5	2-Nitrophenol	ND	190	41	ug/kg	
100-02-7	4-Nitrophenol	ND	390	65	ug/kg	
87-86-5	Pentachlorophenol	ND	190	66	ug/kg	
108-95-2	Phenol	ND	77	40	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	40	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	45	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	36	ug/kg	
83-32-9	Acenaphthene	ND	39	11	ug/kg	
208-96-8	Acenaphthylene	ND	39	12	ug/kg	
98-86-2	Acetophenone	ND	190	6.8	ug/kg	
120-12-7	Anthracene	ND	39	13	ug/kg	
1912-24-9	Atrazine	ND	77	7.6	ug/kg	
56-55-3	Benzo(a)anthracene	31.8	39	13	ug/kg	J
50-32-8	Benzo(a)pyrene	22.0	39	12	ug/kg	J
205-99-2	Benzo(b)fluoranthene	26.7	39	13	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	ND	39	14	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	39	14	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	77	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	77	22	ug/kg	
92-52-4	1,1'-Biphenyl	ND	77	4.5	ug/kg	
100-52-7	Benzaldehyde	ND	190	8.9	ug/kg	
91-58-7	2-Chloronaphthalene	ND	77	12	ug/kg	
106-47-8	4-Chloroaniline	ND	190	12	ug/kg	
86-74-8	Carbazole	ND	77	18	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB4-2		
Lab Sample ID:	JB94209-8	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	84.8
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	77	12	ug/kg	
218-01-9	Chrysene	23.5	39	13	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	77	16	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	77	12	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	77	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	77	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	39	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	39	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	77	9.8	ug/kg	
123-91-1	1,4-Dioxane	ND	39	25	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	39	13	ug/kg	
132-64-9	Dibenzofuran	ND	77	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	77	8.6	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	77	19	ug/kg	
84-66-2	Diethyl phthalate	ND	77	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	77	14	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	77	34	ug/kg	
206-44-0	Fluoranthene	51.4	39	17	ug/kg	
86-73-7	Fluorene	ND	39	13	ug/kg	
118-74-1	Hexachlorobenzene	ND	77	13	ug/kg	
87-68-3	Hexachlorobutadiene	ND	39	11	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	390	39	ug/kg	
67-72-1	Hexachloroethane	ND	190	11	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	39	13	ug/kg	
78-59-1	Isophorone	ND	77	10	ug/kg	
91-57-6	2-Methylnaphthalene	ND	77	22	ug/kg	
88-74-4	2-Nitroaniline	ND	190	17	ug/kg	
99-09-2	3-Nitroaniline	ND	190	15	ug/kg	
100-01-6	4-Nitroaniline	ND	190	15	ug/kg	
91-20-3	Naphthalene	ND	39	11	ug/kg	
98-95-3	Nitrobenzene	ND	77	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	77	9.4	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	23	ug/kg	
85-01-8	Phenanthrene	42.9	39	18	ug/kg	
129-00-0	Pyrene	46.5	39	15	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	63%		22-121%

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB4-2		
Lab Sample ID:	JB94209-8	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	84.8
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	60%		27-119%
118-79-6	2,4,6-Tribromophenol	70%		17-158%
4165-60-0	Nitrobenzene-d5	76%		33-127%
321-60-8	2-Fluorobiphenyl	77%		41-121%
1718-51-0	Terphenyl-d14	91%		44-137%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.56	540	ug/kg	J
	system artifact/aldol-condensation	2.90	490	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	SB4-2		
Lab Sample ID:	JB94209-8	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8081B SW846 3546	**Percent Solids:**	84.8
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G56097.D	1	05/14/15	RK	05/14/15	OP83920	G4G1469
Run #2							

	Initial Weight	Final Volume
Run #1	16.0 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.74	0.34	ug/kg	
319-84-6	alpha-BHC	ND	0.74	0.22	ug/kg	
319-85-7	beta-BHC	ND	0.74	0.46	ug/kg	
319-86-8	delta-BHC	ND	0.74	0.36	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.74	0.36	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.74	0.27	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.74	0.51	ug/kg	
60-57-1	Dieldrin	ND	0.74	0.29	ug/kg	
72-54-8	4,4'-DDD	ND	0.74	0.40	ug/kg	
72-55-9	4,4'-DDE	ND	0.74	0.30	ug/kg	
50-29-3	4,4'-DDT	ND	0.74	0.36	ug/kg	
72-20-8	Endrin	ND	0.74	0.24	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.74	0.32	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.74	0.39	ug/kg	
959-98-8	Endosulfan-I	ND	0.74	0.28	ug/kg	
33213-65-9	Endosulfan-II	ND	0.74	0.44	ug/kg	
76-44-8	Heptachlor	ND	0.74	0.36	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.74	0.28	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.72	ug/kg	
53494-70-5	Endrin ketone	ND	0.74	0.30	ug/kg	
8001-35-2	Toxaphene	ND	18	9.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	76%		10-129%
877-09-8	Tetrachloro-m-xylene	78%		10-129%
2051-24-3	Decachlorobiphenyl	64%		10-144%
2051-24-3	Decachlorobiphenyl	56%		10-144%

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB4-2		
Lab Sample ID:	JB94209-8	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8082A SW846 3546	**Percent Solids:**	84.8
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G113717.D	1	05/11/15	DG	05/10/15	OP83802	G2G3349
Run #2							

	Initial Weight	Final Volume
Run #1	16.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	9.3	ug/kg	
11104-28-2	Aroclor 1221	ND	36	22	ug/kg	
11141-16-5	Aroclor 1232	ND	36	18	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248	ND	36	11	ug/kg	
11097-69-1	Aroclor 1254	ND	36	17	ug/kg	
11096-82-5	Aroclor 1260	ND	36	12	ug/kg	
11100-14-4	Aroclor 1268	ND	36	11	ug/kg	
37324-23-5	Aroclor 1262	ND	36	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	118%		14-139%
877-09-8	Tetrachloro-m-xylene	97%		14-139%
2051-24-3	Decachlorobiphenyl	82%		10-155%
2051-24-3	Decachlorobiphenyl	79%		10-155%

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB4-2		
Lab Sample ID:	JB94209-8	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
		Percent Solids:	84.8
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	8350	60	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Antimony	< 2.4	2.4	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Arsenic	6.2	2.4	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Barium	30.0	24	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Beryllium	0.40	0.24	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Cadmium	< 0.60	0.60	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Calcium	736	600	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Chromium	13.0	1.2	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Cobalt	8.7	6.0	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Copper	17.5	3.0	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Iron	19100	60	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Lead	9.3	2.4	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Magnesium	2710	600	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Manganese	460	1.8	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Mercury	< 0.039	0.039	mg/kg	1	05/12/15	05/12/15	DP	SW846 7471B [2]	SW846 7471B [4]
Nickel	16.5	4.8	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Potassium	< 1200	1200	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Selenium	< 2.4	2.4	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Silver	< 0.60	0.60	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Sodium	< 1200	1200	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Thallium	< 1.2	1.2	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Vanadium	19.2	6.0	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Zinc	42.9	6.0	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA36629
(2) Instrument QC Batch: MA36633
(3) Prep QC Batch: MP86349
(4) Prep QC Batch: MP86397

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB5-1		
Lab Sample ID:	JB94209-9	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	93.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I203988.D	1	05/11/15	SJM	n/a	n/a	VI8196
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	2.4	ug/kg	
71-43-2	Benzene	ND	0.54	0.14	ug/kg	
74-97-5	Bromochloromethane	ND	5.4	0.33	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	0.17	ug/kg	
75-25-2	Bromoform	ND	5.4	0.25	ug/kg	
74-83-9	Bromomethane	ND	5.4	0.39	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.1	ug/kg	
75-15-0	Carbon disulfide	ND	2.2	0.25	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	0.25	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	0.17	ug/kg	
75-00-3	Chloroethane	ND	5.4	0.52	ug/kg	
67-66-3	Chloroform	ND	2.2	0.16	ug/kg	
74-87-3	Chloromethane	ND	5.4	0.28	ug/kg	
110-82-7	Cyclohexane	ND	2.2	0.34	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.2	0.58	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	0.22	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.14	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.13	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.24	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.4	0.39	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.1	0.15	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.14	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.1	0.64	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.84	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.64	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	0.26	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	0.13	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	0.19	ug/kg	
100-41-4	Ethylbenzene	0.42	1.1	0.18	ug/kg	J
76-13-1	Freon 113	ND	5.4	0.48	ug/kg	
591-78-6	2-Hexanone	ND	5.4	1.4	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB5-1		
Lab Sample ID:	JB94209-9	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	93.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.2	0.11	ug/kg	
79-20-9	Methyl Acetate	ND	5.4	0.92	ug/kg	
108-87-2	Methylcyclohexane	ND	2.2	0.24	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.16	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.4	0.49	ug/kg	
75-09-2	Methylene chloride	1.8	5.4	1.1	ug/kg	J
100-42-5	Styrene	ND	2.2	0.19	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	0.19	ug/kg	
127-18-4	Tetrachloroethene	0.78	2.2	0.32	ug/kg	J
108-88-3	Toluene	0.62	1.1	0.22	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.4	0.19	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	0.18	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.2	0.16	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	0.16	ug/kg	
79-01-6	Trichloroethene	ND	1.1	0.16	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.4	0.27	ug/kg	
75-01-4	Vinyl chloride	ND	2.2	0.21	ug/kg	
	m,p-Xylene	2.3	1.1	0.38	ug/kg	
95-47-6	o-Xylene	0.73	1.1	0.29	ug/kg	J
1330-20-7	Xylene (total)	3.1	1.1	0.29	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-122%
17060-07-0	1,2-Dichloroethane-D4	99%		68-124%
2037-26-5	Toluene-D8	99%		77-125%
460-00-4	4-Bromofluorobenzene	107%		72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB5-1		
Lab Sample ID:	JB94209-9	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	93.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2P48485.D	1	05/11/15	SD	05/09/15	OP83787	E2P2069
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	5.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	350	180	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	880	180	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	880	280	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	880	300	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	880	220	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	880	220	ug/kg	
95-48-7	2-Methylphenol	ND	350	200	ug/kg	
	3&4-Methylphenol	ND	350	220	ug/kg	
88-75-5	2-Nitrophenol	ND	880	190	ug/kg	
100-02-7	4-Nitrophenol	ND	1800	300	ug/kg	
87-86-5	Pentachlorophenol	ND	880	300	ug/kg	
108-95-2	Phenol	ND	350	190	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	880	180	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	880	210	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	880	170	ug/kg	
83-32-9	Acenaphthene	1150	180	51	ug/kg	
208-96-8	Acenaphthylene	217	180	57	ug/kg	
98-86-2	Acetophenone	ND	880	31	ug/kg	
120-12-7	Anthracene	3070	180	62	ug/kg	
1912-24-9	Atrazine	ND	350	35	ug/kg	
56-55-3	Benzo(a)anthracene	8350	180	58	ug/kg	
50-32-8	Benzo(a)pyrene	7800	180	54	ug/kg	
205-99-2	Benzo(b)fluoranthene	10300	180	59	ug/kg	
191-24-2	Benzo(g,h,i)perylene	4330	180	66	ug/kg	
207-08-9	Benzo(k)fluoranthene	2680	180	66	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	350	64	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	350	100	ug/kg	
92-52-4	1,1'-Biphenyl	92.2	350	21	ug/kg	J
100-52-7	Benzaldehyde	ND	880	41	ug/kg	
91-58-7	2-Chloronaphthalene	ND	350	55	ug/kg	
106-47-8	4-Chloroaniline	ND	880	57	ug/kg	
86-74-8	Carbazole	1400	350	82	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB5-1		
Lab Sample ID:	JB94209-9	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	93.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	350	56	ug/kg	
218-01-9	Chrysene	7930	180	60	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	350	71	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	350	53	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	350	53	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	350	53	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	180	77	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	180	67	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	350	45	ug/kg	
123-91-1	1,4-Dioxane	ND	180	110	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	1440	180	60	ug/kg	
132-64-9	Dibenzofuran	768	350	53	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	350	39	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	350	86	ug/kg	
84-66-2	Diethyl phthalate	ND	350	60	ug/kg	
131-11-3	Dimethyl phthalate	ND	350	62	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	1490	350	160	ug/kg	
206-44-0	Fluoranthene	16900	180	78	ug/kg	
86-73-7	Fluorene	1310	180	58	ug/kg	
118-74-1	Hexachlorobenzene	ND	350	58	ug/kg	
87-68-3	Hexachlorobutadiene	ND	180	49	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1800	180	ug/kg	
67-72-1	Hexachloroethane	ND	880	49	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	3980	180	61	ug/kg	
78-59-1	Isophorone	ND	350	48	ug/kg	
91-57-6	2-Methylnaphthalene	282	350	99	ug/kg	J
88-74-4	2-Nitroaniline	ND	880	78	ug/kg	
99-09-2	3-Nitroaniline	ND	880	71	ug/kg	
100-01-6	4-Nitroaniline	ND	880	69	ug/kg	
91-20-3	Naphthalene	513	180	48	ug/kg	
98-95-3	Nitrobenzene	ND	350	51	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	350	43	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	880	110	ug/kg	
85-01-8	Phenanthrene	14300	180	80	ug/kg	
129-00-0	Pyrene	16200	180	68	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	880	54	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%		22-121%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB5-1		
Lab Sample ID:	JB94209-9	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	93.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	48%		27-119%
118-79-6	2,4,6-Tribromophenol	59%		17-158%
4165-60-0	Nitrobenzene-d5	62%		33-127%
321-60-8	2-Fluorobiphenyl	61%		41-121%
1718-51-0	Terphenyl-d14	69%		44-137%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
132-65-0	Dibenzothiophene	7.96	830	ug/kg	JN
	Phenanthrene methyl	8.55	1200	ug/kg	J
	Phenanthrene methyl	8.58	1400	ug/kg	J
	4H-Cyclopenta[def]phenanthrene	8.66	2600	ug/kg	J
	Anthracene methyl	8.68	920	ug/kg	J
612-94-2	Naphthalene, 2-phenyl-	8.86	1000	ug/kg	JN
84-65-1	9,10-Anthracenedione	8.90	970	ug/kg	JN
	unknown	9.25	830	ug/kg	J
	Pyrene methyl	10.03	1300	ug/kg	J
	Pyrene methyl	10.16	920	ug/kg	J
1090-13-7	5,12-Naphthacenedione	12.28	770	ug/kg	JN
	unknown	12.51	1200	ug/kg	J
	unknown PAH substance	12.84	1800	ug/kg	J
	unknown	12.99	1400	ug/kg	J
	unknown PAH substance	13.07	5300	ug/kg	J
	unknown	13.41	770	ug/kg	J
	unknown	13.57	750	ug/kg	J
	unknown	13.77	760	ug/kg	J
	alkane	13.90	2300	ug/kg	J
	unknown	14.31	1200	ug/kg	J
	unknown PAH substance	14.40	1800	ug/kg	J
	unknown PAH substance	14.67	1400	ug/kg	J
	unknown PAH substance	14.71	2300	ug/kg	J
	unknown PAH substance	15.04	1900	ug/kg	J
	Dibenzopyrene	16.57	2600	ug/kg	J
	Total TIC, Semi-Volatile		38220	ug/kg	J

(a) Elevated detection limit due to high final volume of viscous extract.

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RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB5-1		
Lab Sample ID:	JB94209-9	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8081B SW846 3546	**Percent Solids:**	93.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G56098.D	1	05/14/15	RK	05/14/15	OP83920	G4G1469
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.69	0.32	ug/kg	
319-84-6	alpha-BHC	ND	0.69	0.21	ug/kg	
319-85-7	beta-BHC	ND	0.69	0.43	ug/kg	
319-86-8	delta-BHC	1.7	0.69	0.34	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.69	0.34	ug/kg	
5103-71-9	alpha-Chlordane	5.1	0.69	0.26	ug/kg	
5103-74-2	gamma-Chlordane	3.6	0.69	0.48	ug/kg	
60-57-1	Dieldrin	ND	0.69	0.27	ug/kg	
72-54-8	4,4'-DDD [a]	9.0	0.69	0.38	ug/kg	
72-55-9	4,4'-DDE	2.5	0.69	0.28	ug/kg	
50-29-3	4,4'-DDT [a]	17.6	0.69	0.34	ug/kg	
72-20-8	Endrin	ND	0.69	0.22	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.69	0.30	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.69	0.36	ug/kg	
959-98-8	Endosulfan-I	ND	0.69	0.26	ug/kg	
33213-65-9	Endosulfan-II	ND	0.69	0.41	ug/kg	
76-44-8	Heptachlor	ND	0.69	0.34	ug/kg	
1024-57-3	Heptachlor epoxide	2.9	0.69	0.26	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.67	ug/kg	
53494-70-5	Endrin ketone	ND	0.69	0.28	ug/kg	
8001-35-2	Toxaphene	ND	17	8.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	70%		10-129%
877-09-8	Tetrachloro-m-xylene	69%		10-129%
2051-24-3	Decachlorobiphenyl	300% [b]		10-144%
2051-24-3	Decachlorobiphenyl	469% [b]		10-144%

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB5-1		
Lab Sample ID:	JB94209-9	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8082A SW846 3546	**Percent Solids:**	93.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G113718.D	1	05/11/15	DG	05/10/15	OP83802	G2G3349
Run #2							

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	34	8.8	ug/kg	
11104-28-2	Aroclor 1221	ND	34	20	ug/kg	
11141-16-5	Aroclor 1232	ND	34	17	ug/kg	
53469-21-9	Aroclor 1242	ND	34	11	ug/kg	
12672-29-6	Aroclor 1248	ND	34	10	ug/kg	
11097-69-1	Aroclor 1254	ND	34	16	ug/kg	
11096-82-5	Aroclor 1260	ND	34	11	ug/kg	
11100-14-4	Aroclor 1268	ND	34	10	ug/kg	
37324-23-5	Aroclor 1262	ND	34	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	69%		14-139%
877-09-8	Tetrachloro-m-xylene	61%		14-139%
2051-24-3	Decachlorobiphenyl	135%		10-155%
2051-24-3	Decachlorobiphenyl	692% [a]		10-155%

(a) Outside control limits due to matrix interference.

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RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB5-1		
Lab Sample ID:	JB94209-9	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
		Percent Solids:	93.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	8200	51	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Antimony	< 2.0	2.0	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Arsenic	7.1	2.0	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Barium	261	20	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Beryllium	0.46	0.20	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Cadmium	1.2	0.51	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Calcium	1950	510	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Chromium	18.9	1.0	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Cobalt	8.1	5.1	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Copper	53.3	2.6	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Iron	19900	51	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Lead	687	2.0	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Magnesium	2130	510	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Manganese	196	1.5	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Mercury	0.42	0.035	mg/kg	1	05/12/15	05/12/15	DP	SW846 7471B [2]	SW846 7471B [4]
Nickel	24.9	4.1	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Potassium	< 1000	1000	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Selenium	< 2.0	2.0	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Silver	< 0.51	0.51	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Sodium	< 1000	1000	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Thallium	< 1.0	1.0	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Vanadium	23.1	5.1	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Zinc	754	5.1	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA36629
(2) Instrument QC Batch: MA36633
(3) Prep QC Batch: MP86349
(4) Prep QC Batch: MP86397

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB5-2		
Lab Sample ID:	JB94209-10	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	88.2
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I203968.D	1	05/09/15	SJM	n/a	n/a	VI8195
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	2.5	ug/kg	
71-43-2	Benzene	ND	0.57	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	5.7	0.35	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	0.18	ug/kg	
75-25-2	Bromoform	ND	5.7	0.27	ug/kg	
74-83-9	Bromomethane	ND	5.7	0.41	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.2	ug/kg	
75-15-0	Carbon disulfide	ND	2.3	0.26	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	0.26	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	0.18	ug/kg	
75-00-3	Chloroethane	ND	5.7	0.55	ug/kg	
67-66-3	Chloroform	ND	2.3	0.17	ug/kg	
74-87-3	Chloromethane	ND	5.7	0.30	ug/kg	
110-82-7	Cyclohexane	ND	2.3	0.36	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.3	0.62	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	0.23	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.15	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.14	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.18	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.26	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.7	0.41	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.1	0.16	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.15	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.1	0.67	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.88	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.67	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	0.27	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	0.13	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	0.20	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.18	ug/kg	
76-13-1	Freon 113	ND	5.7	0.51	ug/kg	
591-78-6	2-Hexanone	ND	5.7	1.5	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB5-2		
Lab Sample ID:	JB94209-10	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	88.2
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.3	0.12	ug/kg	
79-20-9	Methyl Acetate	ND	5.7	0.98	ug/kg	
108-87-2	Methylcyclohexane	ND	2.3	0.26	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.17	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.7	0.52	ug/kg	
75-09-2	Methylene chloride	ND	5.7	1.1	ug/kg	
100-42-5	Styrene	ND	2.3	0.20	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	0.20	ug/kg	
127-18-4	Tetrachloroethene	ND	2.3	0.34	ug/kg	
108-88-3	Toluene	ND	1.1	0.24	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.7	0.20	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.7	0.19	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	0.17	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	0.17	ug/kg	
79-01-6	Trichloroethene	ND	1.1	0.17	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.7	0.28	ug/kg	
75-01-4	Vinyl chloride	ND	2.3	0.22	ug/kg	
	m,p-Xylene	ND	1.1	0.40	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.31	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.31	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		70-122%
17060-07-0	1,2-Dichloroethane-D4	96%		68-124%
2037-26-5	Toluene-D8	95%		77-125%
460-00-4	4-Bromofluorobenzene	97%		72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB5-2		
Lab Sample ID:	JB94209-10	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	88.2
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P48486.D	1	05/12/15	SD	05/09/15	OP83787	E2P2069
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	74	37	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	37	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	60	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	62	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	190	45	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	190	45	ug/kg	
95-48-7	2-Methylphenol	ND	74	42	ug/kg	
	3&4-Methylphenol	ND	74	47	ug/kg	
88-75-5	2-Nitrophenol	ND	190	39	ug/kg	
100-02-7	4-Nitrophenol	ND	370	63	ug/kg	
87-86-5	Pentachlorophenol	ND	190	64	ug/kg	
108-95-2	Phenol	ND	74	39	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	38	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	43	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	35	ug/kg	
83-32-9	Acenaphthene	56.9	37	11	ug/kg	
208-96-8	Acenaphthylene	77.2	37	12	ug/kg	
98-86-2	Acetophenone	ND	190	6.5	ug/kg	
120-12-7	Anthracene	167	37	13	ug/kg	
1912-24-9	Atrazine	ND	74	7.3	ug/kg	
56-55-3	Benzo(a)anthracene	553	37	12	ug/kg	
50-32-8	Benzo(a)pyrene	522	37	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	661	37	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	321	37	14	ug/kg	
207-08-9	Benzo(k)fluoranthene	173	37	14	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	74	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	74	22	ug/kg	
92-52-4	1,1'-Biphenyl	ND	74	4.3	ug/kg	
100-52-7	Benzaldehyde	ND	190	8.5	ug/kg	
91-58-7	2-Chloronaphthalene	ND	74	12	ug/kg	
106-47-8	4-Chloroaniline	ND	190	12	ug/kg	
86-74-8	Carbazole	97.8	74	17	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB5-2		
Lab Sample ID:	JB94209-10	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	88.2
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	74	12	ug/kg	
218-01-9	Chrysene	579	37	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	74	15	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	74	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	74	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	74	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	37	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	37	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	74	9.4	ug/kg	
123-91-1	1,4-Dioxane	ND	37	24	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	94.7	37	13	ug/kg	
132-64-9	Dibenzofuran	49.1	74	11	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	74	8.3	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	74	18	ug/kg	
84-66-2	Diethyl phthalate	ND	74	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	74	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	74	33	ug/kg	
206-44-0	Fluoranthene	1050	37	16	ug/kg	
86-73-7	Fluorene	75.4	37	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	74	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	37	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	370	38	ug/kg	
67-72-1	Hexachloroethane	ND	190	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	279	37	13	ug/kg	
78-59-1	Isophorone	ND	74	10	ug/kg	
91-57-6	2-Methylnaphthalene	27.9	74	21	ug/kg	J
88-74-4	2-Nitroaniline	ND	190	16	ug/kg	
99-09-2	3-Nitroaniline	ND	190	15	ug/kg	
100-01-6	4-Nitroaniline	ND	190	14	ug/kg	
91-20-3	Naphthalene	53.7	37	10	ug/kg	
98-95-3	Nitrobenzene	ND	74	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	74	9.1	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	22	ug/kg	
85-01-8	Phenanthrene	858	37	17	ug/kg	
129-00-0	Pyrene	1230	37	14	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	60%		22-121%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB5-2		
Lab Sample ID:	JB94209-10	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	88.2
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	56%		27-119%
118-79-6	2,4,6-Tribromophenol	70%		17-158%
4165-60-0	Nitrobenzene-d5	70%		33-127%
321-60-8	2-Fluorobiphenyl	72%		41-121%
1718-51-0	Terphenyl-d14	83%		44-137%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.54	360	ug/kg	J
	system artifact/aldol-condensation	2.89	290	ug/kg	J
	unknown	3.82	240	ug/kg	J
	unknown	8.66	200	ug/kg	J
	unknown	12.28	210	ug/kg	J
	unknown PAH substance	12.84	160	ug/kg	J
	unknown PAH substance	13.07	360	ug/kg	J
	unknown	15.68	300	ug/kg	J
	unknown	16.01	210	ug/kg	J
	Dibenzopyrene	16.56	160	ug/kg	J
	Total TIC, Semi-Volatile		1840	ug/kg	J

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID: SB5-2
Lab Sample ID: JB94209-10
Matrix: SO - Soil
Method: SW846 8081B SW846 3546
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Date Sampled: 05/07/15
Date Received: 05/07/15
Percent Solids: 88.2

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G56099.D	1	05/14/15	RK	05/14/15	OP83920	G4G1469
Run #2							

	Initial Weight	Final Volume
Run #1	16.0 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.71	0.33	ug/kg	
319-84-6	alpha-BHC	ND	0.71	0.21	ug/kg	
319-85-7	beta-BHC	ND	0.71	0.44	ug/kg	
319-86-8	delta-BHC	ND	0.71	0.35	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.71	0.35	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.71	0.26	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.71	0.49	ug/kg	
60-57-1	Dieldrin	ND	0.71	0.28	ug/kg	
72-54-8	4,4'-DDD	ND	0.71	0.39	ug/kg	
72-55-9	4,4'-DDE	ND	0.71	0.29	ug/kg	
50-29-3	4,4'-DDT	2.2	0.71	0.35	ug/kg	
72-20-8	Endrin	ND	0.71	0.23	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.71	0.30	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.71	0.37	ug/kg	
959-98-8	Endosulfan-I	ND	0.71	0.27	ug/kg	
33213-65-9	Endosulfan-II	ND	0.71	0.42	ug/kg	
76-44-8	Heptachlor	ND	0.71	0.35	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.71	0.27	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.69	ug/kg	
53494-70-5	Endrin ketone	ND	0.71	0.29	ug/kg	
8001-35-2	Toxaphene	ND	18	8.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	69%		10-129%
877-09-8	Tetrachloro-m-xylene	71%		10-129%
2051-24-3	Decachlorobiphenyl	70%		10-144%
2051-24-3	Decachlorobiphenyl	51%		10-144%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB5-2		
Lab Sample ID:	JB94209-10	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8082A SW846 3546	**Percent Solids:**	88.2
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G113719.D	1	05/11/15	DG	05/10/15	OP83802	G2G3349
Run #2							

	Initial Weight	Final Volume
Run #1	16.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.1	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	18	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	11	ug/kg	
11097-69-1	Aroclor 1254	ND	35	16	ug/kg	
11096-82-5	Aroclor 1260	ND	35	11	ug/kg	
11100-14-4	Aroclor 1268	ND	35	10	ug/kg	
37324-23-5	Aroclor 1262	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	66%		14-139%
877-09-8	Tetrachloro-m-xylene	58%		14-139%
2051-24-3	Decachlorobiphenyl	44%		10-155%
2051-24-3	Decachlorobiphenyl	89%		10-155%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB5-2		
Lab Sample ID:	JB94209-10	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
		Percent Solids:	88.2
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	5460	57	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Antimony	< 2.3	2.3	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Arsenic	5.1	2.3	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Barium	23.8	23	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Beryllium	0.32	0.23	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Cadmium	< 0.57	0.57	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Calcium	< 570	570	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Chromium	8.9	1.1	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Cobalt	6.3	5.7	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Copper	12.6	2.9	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Iron	14600	57	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Lead	14.4	2.3	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Magnesium	1850	570	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Manganese	297	1.7	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Mercury	0.18	0.035	mg/kg	1	05/12/15	05/12/15	DP	SW846 7471B [2]	SW846 7471B [4]
Nickel	17.9	4.6	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Selenium	< 2.3	2.3	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Silver	< 0.57	0.57	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Vanadium	13.7	5.7	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Zinc	40.0	5.7	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA36629
(2) Instrument QC Batch: MA36633
(3) Prep QC Batch: MP86349
(4) Prep QC Batch: MP86397

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB6-1		
Lab Sample ID:	JB94209-11	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	93.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I203969.D	1	05/09/15	SJM	n/a	n/a	VI8195
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	2.4	ug/kg	
71-43-2	Benzene	ND	0.54	0.14	ug/kg	
74-97-5	Bromochloromethane	ND	5.4	0.33	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	0.17	ug/kg	
75-25-2	Bromoform	ND	5.4	0.25	ug/kg	
74-83-9	Bromomethane	ND	5.4	0.39	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.1	ug/kg	
75-15-0	Carbon disulfide	ND	2.2	0.25	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	0.25	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	0.17	ug/kg	
75-00-3	Chloroethane	ND	5.4	0.52	ug/kg	
67-66-3	Chloroform	ND	2.2	0.16	ug/kg	
74-87-3	Chloromethane	ND	5.4	0.28	ug/kg	
110-82-7	Cyclohexane	ND	2.2	0.34	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.2	0.58	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	0.22	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.14	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.13	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.24	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.4	0.39	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.1	0.15	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.14	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.1	0.64	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.84	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.64	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	0.26	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	0.13	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	0.19	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.18	ug/kg	
76-13-1	Freon 113	ND	5.4	0.48	ug/kg	
591-78-6	2-Hexanone	ND	5.4	1.4	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB6-1		
Lab Sample ID:	JB94209-11	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	93.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.2	0.11	ug/kg	
79-20-9	Methyl Acetate	6.2	5.4	0.92	ug/kg	
108-87-2	Methylcyclohexane	ND	2.2	0.24	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.16	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.4	0.49	ug/kg	
75-09-2	Methylene chloride	ND	5.4	1.1	ug/kg	
100-42-5	Styrene	ND	2.2	0.19	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	0.19	ug/kg	
127-18-4	Tetrachloroethene	ND	2.2	0.32	ug/kg	
108-88-3	Toluene	ND	1.1	0.22	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.4	0.19	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	0.18	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.2	0.16	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	0.16	ug/kg	
79-01-6	Trichloroethene	ND	1.1	0.16	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.4	0.27	ug/kg	
75-01-4	Vinyl chloride	ND	2.2	0.21	ug/kg	
	m,p-Xylene	ND	1.1	0.38	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.29	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.29	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		70-122%
17060-07-0	1,2-Dichloroethane-D4	99%		68-124%
2037-26-5	Toluene-D8	91%		77-125%
460-00-4	4-Bromofluorobenzene	96%		72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
91-20-3	Naphthalene	18.17	62	ug/kg	JN
	Naphthalene, methyl- isomer	19.39	11	ug/kg	J
	Naphthalene, methyl- isomer	19.62	8	ug/kg	J
	Total TIC, Volatile		81	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB6-1		
Lab Sample ID:	JB94209-11	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	93.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P48487.D	1	05/12/15	SD	05/09/15	OP83787	E2P2069
Run #2	2P48489.D	40	05/12/15	SD	05/09/15	OP83787	E2P2069

	Initial Weight	Final Volume
Run #1	31.2 g	1.0 ml
Run #2	31.2 g	1.0 ml

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	69	34	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	34	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	55	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	58	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	42	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	42	ug/kg	
95-48-7	2-Methylphenol	ND	69	39	ug/kg	
	3&4-Methylphenol	84.8	69	44	ug/kg	
88-75-5	2-Nitrophenol	ND	170	37	ug/kg	
100-02-7	4-Nitrophenol	ND	340	58	ug/kg	
87-86-5	Pentachlorophenol	ND	170	59	ug/kg	
108-95-2	Phenol	ND	69	36	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	35	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	40	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	32	ug/kg	
83-32-9	Acenaphthene	5810 [a]	1400	400	ug/kg	
208-96-8	Acenaphthylene	173	34	11	ug/kg	
98-86-2	Acetophenone	ND	170	6.1	ug/kg	
120-12-7	Anthracene	13100 [a]	1400	480	ug/kg	
1912-24-9	Atrazine	ND	69	6.8	ug/kg	
56-55-3	Benzo(a)anthracene	27300 [a]	1400	450	ug/kg	
50-32-8	Benzo(a)pyrene	21700 [a]	1400	420	ug/kg	
205-99-2	Benzo(b)fluoranthene	27300 [a]	1400	460	ug/kg	
191-24-2	Benzo(g,h,i)perylene	11100 [a]	1400	510	ug/kg	
207-08-9	Benzo(k)fluoranthene	8330 [a]	1400	520	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	69	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	69	20	ug/kg	
92-52-4	1,1'-Biphenyl	352	69	4.0	ug/kg	
100-52-7	Benzaldehyde	ND	170	7.9	ug/kg	
91-58-7	2-Chloronaphthalene	ND	69	11	ug/kg	
106-47-8	4-Chloroaniline	ND	170	11	ug/kg	
86-74-8	Carbazole	6560 [a]	2800	640	ug/kg	

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RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB6-1		
Lab Sample ID:	JB94209-11	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	93.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	69	11	ug/kg	
218-01-9	Chrysene	25100 [a]	1400	470	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	69	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	69	10	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	69	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	69	10	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	34	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	34	13	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	69	8.8	ug/kg	
123-91-1	1,4-Dioxane	ND	34	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	3680 [a]	1400	470	ug/kg	
132-64-9	Dibenzofuran	3400 [a]	2800	410	ug/kg	
84-74-2	Di-n-butyl phthalate	64.4	69	7.7	ug/kg	J
117-84-0	Di-n-octyl phthalate	ND	69	17	ug/kg	
84-66-2	Diethyl phthalate	ND	69	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	69	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	69	30	ug/kg	
206-44-0	Fluoranthene	62000 [a]	1400	610	ug/kg	
86-73-7	Fluorene	5850 [a]	1400	450	ug/kg	
118-74-1	Hexachlorobenzene	ND	69	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	34	9.6	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	340	35	ug/kg	
67-72-1	Hexachloroethane	ND	170	9.6	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	10500 [a]	1400	480	ug/kg	
78-59-1	Isophorone	ND	69	9.3	ug/kg	
91-57-6	2-Methylnaphthalene	1230	69	19	ug/kg	
88-74-4	2-Nitroaniline	ND	170	15	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	13	ug/kg	
91-20-3	Naphthalene	3320	34	9.4	ug/kg	
98-95-3	Nitrobenzene	ND	69	10	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	69	8.4	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	21	ug/kg	
85-01-8	Phenanthrene	57100 [a]	1400	630	ug/kg	
129-00-0	Pyrene	58700 [a]	1400	530	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	64%	45%	22-121%

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Report of Analysis

Client Sample ID:	SB6-1		
Lab Sample ID:	JB94209-11	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	93.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	60%	48%	27-119%
118-79-6	2,4,6-Tribromophenol	66%	67%	17-158%
4165-60-0	Nitrobenzene-d5	73%	60%	33-127%
321-60-8	2-Fluorobiphenyl	77%	65%	41-121%
1718-51-0	Terphenyl-d14	74%	85%	44-137%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
90-12-0	Naphthalene, 1-methyl-	6.05	320	ug/kg	JN
	1,1'-Biphenyl, -methyl-	7.34	1100	ug/kg	J
1689-64-1	9H-Fluoren-9-ol	7.40	840	ug/kg	JN
	Pyrene methyl	10.07	230	ug/kg	J
	Pyrene methyl	10.16	170	ug/kg	J
	Pyrene methyl	10.21	240	ug/kg	J
	unknown	10.77	150	ug/kg	J
	unknown	10.93	150	ug/kg	J
	H-Benzo[de]anthracen--one	11.12	200	ug/kg	J
	unknown	11.44	190	ug/kg	J
	unknown	11.59	140	ug/kg	J
	Chrysene methyl	11.85	190	ug/kg	J
	unknown PAH substance	12.94	240	ug/kg	J
	unknown PAH substance	13.17	770	ug/kg	J
	unknown PAH substance	14.46	300	ug/kg	J
	unknown PAH substance	14.76	180	ug/kg	J
	unknown PAH substance	14.81	300	ug/kg	J
	unknown PAH substance	15.18	310	ug/kg	J
	Total TIC, Semi-Volatile		6020	ug/kg	J

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB6-1		
Lab Sample ID:	JB94209-11	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8081B SW846 3546	**Percent Solids:**	93.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G56100.D	1	05/14/15	RK	05/14/15	OP83920	G4G1469
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.70	0.32	ug/kg	
319-84-6	alpha-BHC	ND	0.70	0.21	ug/kg	
319-85-7	beta-BHC	ND	0.70	0.43	ug/kg	
319-86-8	delta-BHC	ND	0.70	0.34	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.70	0.34	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.70	0.26	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.70	0.48	ug/kg	
60-57-1	Dieldrin	ND	0.70	0.27	ug/kg	
72-54-8	4,4'-DDD	12.4	0.70	0.38	ug/kg	
72-55-9	4,4'-DDE	1.2	0.70	0.28	ug/kg	
50-29-3	4,4'-DDT	ND	0.70	0.34	ug/kg	
72-20-8	Endrin	ND	0.70	0.23	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.70	0.30	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.70	0.37	ug/kg	
959-98-8	Endosulfan-I	ND	0.70	0.26	ug/kg	
33213-65-9	Endosulfan-II	ND	0.70	0.42	ug/kg	
76-44-8	Heptachlor	ND	0.70	0.34	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.70	0.26	ug/kg	
72-43-5	Methoxychlor	21.3	1.4	0.68	ug/kg	
53494-70-5	Endrin ketone	ND	0.70	0.28	ug/kg	
8001-35-2	Toxaphene	ND	17	8.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	68%		10-129%
877-09-8	Tetrachloro-m-xylene	61%		10-129%
2051-24-3	Decachlorobiphenyl	497% [a]		10-144%
2051-24-3	Decachlorobiphenyl	507% [a]		10-144%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB6-1		
Lab Sample ID:	JB94209-11	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8082A SW846 3546	**Percent Solids:**	93.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G113720.D	1	05/11/15	DG	05/10/15	OP83802	G2G3349
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	34	9.0	ug/kg	
11104-28-2	Aroclor 1221	ND	34	21	ug/kg	
11141-16-5	Aroclor 1232	ND	34	17	ug/kg	
53469-21-9	Aroclor 1242	ND	34	11	ug/kg	
12672-29-6	Aroclor 1248	ND	34	10	ug/kg	
11097-69-1	Aroclor 1254	ND	34	16	ug/kg	
11096-82-5	Aroclor 1260	ND	34	11	ug/kg	
11100-14-4	Aroclor 1268	ND	34	10	ug/kg	
37324-23-5	Aroclor 1262	ND	34	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	62%		14-139%
877-09-8	Tetrachloro-m-xylene	48%		14-139%
2051-24-3	Decachlorobiphenyl	106%		10-155%
2051-24-3	Decachlorobiphenyl	914% [a]		10-155%

(a) Outside control limits due to matrix interference.

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RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB6-1		
Lab Sample ID:	JB94209-11	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
		Percent Solids:	93.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	9760	57	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Antimony	< 2.3	2.3	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Arsenic	5.5	2.3	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Barium	179	23	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Beryllium	0.95	0.23	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Cadmium	< 0.57	0.57	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Calcium	18100	570	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Chromium	18.6	1.1	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Cobalt	8.2	5.7	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Copper	52.9	2.8	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Iron	14100	57	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Lead	131	2.3	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Magnesium	9140	570	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Manganese	997	1.7	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Mercury	0.21	0.033	mg/kg	1	05/12/15	05/12/15	DP	SW846 7471B [2]	SW846 7471B [4]
Nickel	72.1	4.5	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Potassium	1290	1100	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Selenium	< 2.3	2.3	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Silver	< 0.57	0.57	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Vanadium	33.2	5.7	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Zinc	91.6	5.7	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA36629
(2) Instrument QC Batch: MA36633
(3) Prep QC Batch: MP86349
(4) Prep QC Batch: MP86397

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB6-2		
Lab Sample ID:	JB94209-12	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	92.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C119824.D	1	05/10/15	PS	n/a	n/a	V3C5467
Run #2							

	Initial Weight
Run #1	4.7 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	2.6	ug/kg	
71-43-2	Benzene	ND	0.58	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	5.8	0.36	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	0.18	ug/kg	
75-25-2	Bromoform	ND	5.8	0.27	ug/kg	
74-83-9	Bromomethane	ND	5.8	0.42	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	2.2	ug/kg	
75-15-0	Carbon disulfide	ND	2.3	0.26	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	0.27	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	0.18	ug/kg	
75-00-3	Chloroethane	ND	5.8	0.56	ug/kg	
67-66-3	Chloroform	ND	2.3	0.17	ug/kg	
74-87-3	Chloromethane	ND	5.8	0.30	ug/kg	
110-82-7	Cyclohexane	ND	2.3	0.37	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.3	0.63	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	0.24	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.15	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.2	0.14	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.2	0.18	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.2	0.26	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.8	0.42	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.2	0.16	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.15	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.2	0.68	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.2	0.90	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.2	0.69	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	0.28	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	0.14	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	0.20	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.19	ug/kg	
76-13-1	Freon 113	ND	5.8	0.52	ug/kg	
591-78-6	2-Hexanone	ND	5.8	1.5	ug/kg	

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RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB6-2		
Lab Sample ID:	JB94209-12	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	92.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.3	0.12	ug/kg	
79-20-9	Methyl Acetate	ND	5.8	0.99	ug/kg	
108-87-2	Methylcyclohexane	ND	2.3	0.26	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.18	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.8	0.53	ug/kg	
75-09-2	Methylene chloride	ND	5.8	1.1	ug/kg	
100-42-5	Styrene	ND	2.3	0.21	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	0.20	ug/kg	
127-18-4	Tetrachloroethene	ND	2.3	0.35	ug/kg	
108-88-3	Toluene	ND	1.2	0.24	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.8	0.20	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.8	0.20	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	0.17	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	0.17	ug/kg	
79-01-6	Trichloroethene	ND	1.2	0.17	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.8	0.29	ug/kg	
75-01-4	Vinyl chloride	ND	2.3	0.23	ug/kg	
	m,p-Xylene	ND	1.2	0.41	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.32	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.32	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		70-122%
17060-07-0	1,2-Dichloroethane-D4	107%		68-124%
2037-26-5	Toluene-D8	104%		77-125%
460-00-4	4-Bromofluorobenzene	97%		72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB6-2		
Lab Sample ID:	JB94209-12	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	92.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P48476.D	1	05/11/15	SD	05/09/15	OP83787	E2P2069
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	72	36	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	36	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	58	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	60	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	180	44	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	180	44	ug/kg	
95-48-7	2-Methylphenol	ND	72	41	ug/kg	
	3&4-Methylphenol	ND	72	46	ug/kg	
88-75-5	2-Nitrophenol	ND	180	38	ug/kg	
100-02-7	4-Nitrophenol	ND	360	61	ug/kg	
87-86-5	Pentachlorophenol	ND	180	62	ug/kg	
108-95-2	Phenol	ND	72	38	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	37	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	42	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	34	ug/kg	
83-32-9	Acenaphthene	57.3	36	10	ug/kg	
208-96-8	Acenaphthylene	ND	36	12	ug/kg	
98-86-2	Acetophenone	ND	180	6.3	ug/kg	
120-12-7	Anthracene	129	36	13	ug/kg	
1912-24-9	Atrazine	ND	72	7.1	ug/kg	
56-55-3	Benzo(a)anthracene	302	36	12	ug/kg	
50-32-8	Benzo(a)pyrene	263	36	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	323	36	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	134	36	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	114	36	14	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	72	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	72	21	ug/kg	
92-52-4	1,1'-Biphenyl	ND	72	4.2	ug/kg	
100-52-7	Benzaldehyde	ND	180	8.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	72	11	ug/kg	
106-47-8	4-Chloroaniline	ND	180	12	ug/kg	
86-74-8	Carbazole	66.7	72	17	ug/kg	J

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB6-2		
Lab Sample ID:	JB94209-12	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	92.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	72	11	ug/kg	
218-01-9	Chrysene	280	36	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	72	15	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	72	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	72	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	72	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	36	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	36	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	72	9.1	ug/kg	
123-91-1	1,4-Dioxane	ND	36	23	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	41.4	36	12	ug/kg	
132-64-9	Dibenzofuran	33.6	72	11	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	72	8.0	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	72	18	ug/kg	
84-66-2	Diethyl phthalate	ND	72	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	72	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	72	32	ug/kg	
206-44-0	Fluoranthene	621	36	16	ug/kg	
86-73-7	Fluorene	55.6	36	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	72	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	36	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	360	37	ug/kg	
67-72-1	Hexachloroethane	ND	180	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	123	36	12	ug/kg	
78-59-1	Isophorone	ND	72	9.7	ug/kg	
91-57-6	2-Methylnaphthalene	ND	72	20	ug/kg	
88-74-4	2-Nitroaniline	ND	180	16	ug/kg	
99-09-2	3-Nitroaniline	ND	180	14	ug/kg	
100-01-6	4-Nitroaniline	ND	180	14	ug/kg	
91-20-3	Naphthalene	23.0	36	9.8	ug/kg	J
98-95-3	Nitrobenzene	ND	72	10	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	72	8.8	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	21	ug/kg	
85-01-8	Phenanthrene	512	36	16	ug/kg	
129-00-0	Pyrene	559	36	14	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	64%		22-121%

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Report of Analysis

Client Sample ID:	SB6-2		
Lab Sample ID:	JB94209-12	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	92.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	58%		27-119%
118-79-6	2,4,6-Tribromophenol	71%		17-158%
4165-60-0	Nitrobenzene-d5	76%		33-127%
321-60-8	2-Fluorobiphenyl	75%		41-121%
1718-51-0	Terphenyl-d14	85%		44-137%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	2.89	320	ug/kg	J
	system artifact	3.70	190	ug/kg	J
	unknown PAH substance	13.04	180	ug/kg	J
	Total TIC, Semi-Volatile		180	ug/kg	J

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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB6-2		
Lab Sample ID:	JB94209-12	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8081B SW846 3546	**Percent Solids:**	92.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G56101.D	1	05/14/15	RK	05/14/15	OP83920	G4G1469
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.72	0.33	ug/kg	
319-84-6	alpha-BHC	ND	0.72	0.22	ug/kg	
319-85-7	beta-BHC	ND	0.72	0.45	ug/kg	
319-86-8	delta-BHC	ND	0.72	0.36	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.72	0.36	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.72	0.27	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.72	0.50	ug/kg	
60-57-1	Dieldrin	ND	0.72	0.28	ug/kg	
72-54-8	4,4'-DDD	ND	0.72	0.40	ug/kg	
72-55-9	4,4'-DDE	ND	0.72	0.29	ug/kg	
50-29-3	4,4'-DDT	ND	0.72	0.36	ug/kg	
72-20-8	Endrin	ND	0.72	0.23	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.72	0.31	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.72	0.38	ug/kg	
959-98-8	Endosulfan-I	ND	0.72	0.27	ug/kg	
33213-65-9	Endosulfan-II	ND	0.72	0.43	ug/kg	
76-44-8	Heptachlor	ND	0.72	0.35	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.72	0.27	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.71	ug/kg	
53494-70-5	Endrin ketone	ND	0.72	0.29	ug/kg	
8001-35-2	Toxaphene	ND	18	9.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	71%		10-129%
877-09-8	Tetrachloro-m-xylene	70%		10-129%
2051-24-3	Decachlorobiphenyl	66%		10-144%
2051-24-3	Decachlorobiphenyl	65%		10-144%

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB6-2		
Lab Sample ID:	JB94209-12	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8082A SW846 3546	**Percent Solids:**	92.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G113721.D	1	05/11/15	DG	05/10/15	OP83802	G2G3349
Run #2							

	Initial Weight	Final Volume
Run #1	16.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	34	8.7	ug/kg	
11104-28-2	Aroclor 1221	ND	34	20	ug/kg	
11141-16-5	Aroclor 1232	ND	34	17	ug/kg	
53469-21-9	Aroclor 1242	ND	34	11	ug/kg	
12672-29-6	Aroclor 1248	ND	34	10	ug/kg	
11097-69-1	Aroclor 1254	ND	34	16	ug/kg	
11096-82-5	Aroclor 1260	ND	34	11	ug/kg	
11100-14-4	Aroclor 1268	ND	34	9.9	ug/kg	
37324-23-5	Aroclor 1262	ND	34	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	85%		14-139%
877-09-8	Tetrachloro-m-xylene	68%		14-139%
2051-24-3	Decachlorobiphenyl	42%		10-155%
2051-24-3	Decachlorobiphenyl	51%		10-155%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB6-2		
Lab Sample ID:	JB94209-12	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
		Percent Solids:	92.0
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	5030	52	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Antimony	< 2.1	2.1	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Arsenic	4.5	2.1	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Barium	27.4	21	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Beryllium	0.34	0.21	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Cadmium	0.52	0.52	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Calcium	935	520	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Chromium	24.5	1.0	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Cobalt	10	5.2	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Copper	11.6	2.6	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Iron	13700	52	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Lead	27.3	2.1	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Magnesium	10100	520	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Manganese	159	1.6	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Mercury	< 0.036	0.036	mg/kg	1	05/12/15	05/12/15	DP	SW846 7471B [2]	SW846 7471B [4]
Nickel	148	4.1	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Potassium	< 1000	1000	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Selenium	< 2.1	2.1	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Silver	< 0.52	0.52	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Sodium	< 1000	1000	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Thallium	< 1.0	1.0	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Vanadium	15.8	5.2	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Zinc	27.8	5.2	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA36629
(2) Instrument QC Batch: MA36633
(3) Prep QC Batch: MP86349
(4) Prep QC Batch: MP86397

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TW-1		
Lab Sample ID:	JB94209-13	**Date Sampled:**	05/07/15
Matrix:	AQ - Ground Water	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D144326.D	1	05/08/15	BK	n/a	n/a	V2D6061
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TW-1		
Lab Sample ID:	JB94209-13	**Date Sampled:**	05/07/15
Matrix:	AQ - Ground Water	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		76-120%
17060-07-0	1,2-Dichloroethane-D4	88%		73-122%
2037-26-5	Toluene-D8	100%		84-119%
460-00-4	4-Bromofluorobenzene	97%		78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TW-1		
Lab Sample ID:	JB94209-13	**Date Sampled:**	05/07/15
Matrix:	AQ - Ground Water	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P95333.D	1	05/09/15	KLS	05/09/15	OP83797	EP4119
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	1.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.6	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	ug/l	
51-28-5	2,4-Dinitrophenol	ND	10	6.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.3	ug/l	
	3&4-Methylphenol	ND	2.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	10	0.91	ug/l	
87-86-5	Pentachlorophenol	ND	5.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.55	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	1.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.7	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.5	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.20	ug/l	
98-86-2	Acetophenone	ND	2.0	0.36	ug/l	
120-12-7	Anthracene	ND	1.0	0.19	ug/l	
1912-24-9	Atrazine	ND	2.0	0.42	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.67	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.31	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.22	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.25	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.22	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.27	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.30	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TW-1		
Lab Sample ID:	JB94209-13	**Date Sampled:**	05/07/15
Matrix:	AQ - Ground Water	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.0	0.41	ug/l	
218-01-9	Chrysene	ND	1.0	0.16	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.42	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.43	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.41	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.38	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.32	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.26	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.56	ug/l	
123-91-1	1,4-Dioxane	ND	1.0	0.72	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.28	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.23	ug/l	
84-74-2	Di-n-butyl phthalate	1.4	2.0	0.58	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	2.0	0.25	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.23	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.26	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.55	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.16	ug/l	
86-73-7	Fluorene	ND	1.0	0.27	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.46	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.39	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	0.48	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.29	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.40	ug/l	
78-59-1	Isophorone	ND	2.0	0.34	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.29	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.32	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.26	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.30	ug/l	
91-20-3	Naphthalene	ND	1.0	0.27	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.52	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.38	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.21	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.19	ug/l	
129-00-0	Pyrene	ND	1.0	0.19	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		12-110%

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TW-1		
Lab Sample ID:	JB94209-13	**Date Sampled:**	05/07/15
Matrix:	AQ - Ground Water	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	30%		10-110%
118-79-6	2,4,6-Tribromophenol	102%		42-154%
4165-60-0	Nitrobenzene-d5	97%		29-139%
321-60-8	2-Fluorobiphenyl	90%		33-129%
1718-51-0	Terphenyl-d14	68%		10-140%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	17.26	5.4	ug/l	J
	Total TIC, Semi-Volatile		5.4	ug/l	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID: TW-1
Lab Sample ID: JB94209-13
Matrix: AQ - Ground Water
Method: SW846 8081B SW846 3510C
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Date Sampled: 05/07/15
Date Received: 05/07/15
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G111541.D	1	05/12/15	RK	05/09/15	OP83792	G1G3675
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	2.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0067	0.0028	ug/l	
319-84-6	alpha-BHC	ND	0.0067	0.0043	ug/l	
319-85-7	beta-BHC	ND	0.0067	0.0057	ug/l	
319-86-8	delta-BHC	ND	0.0067	0.0043	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0067	0.0035	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0067	0.0040	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0067	0.0033	ug/l	
60-57-1	Dieldrin	ND	0.0067	0.0033	ug/l	
72-54-8	4,4'-DDD	ND	0.0067	0.0043	ug/l	
72-55-9	4,4'-DDE	ND	0.0067	0.0041	ug/l	
50-29-3	4,4'-DDT	ND	0.0067	0.0034	ug/l	
72-20-8	Endrin	ND	0.0067	0.0030	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0067	0.0048	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0067	0.0049	ug/l	
53494-70-5	Endrin ketone	ND	0.0067	0.0031	ug/l	
959-98-8	Endosulfan-I	ND	0.0067	0.0042	ug/l	
33213-65-9	Endosulfan-II	ND	0.0067	0.0044	ug/l	
76-44-8	Heptachlor	ND	0.0067	0.0033	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0067	0.0054	ug/l	
72-43-5	Methoxychlor	ND	0.013	0.0048	ug/l	
8001-35-2	Toxaphene	ND	0.17	0.099	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		26-132%
877-09-8	Tetrachloro-m-xylene	91%		26-132%
2051-24-3	Decachlorobiphenyl	53%		10-118%
2051-24-3	Decachlorobiphenyl	52%		10-118%

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RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID: TW-1
Lab Sample ID: JB94209-13
Matrix: AQ - Ground Water
Method: SW846 8082A SW846 3510C
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Date Sampled: 05/07/15
Date Received: 05/07/15
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G113838.D	1	05/13/15	DG	05/09/15	OP83793	G2G3351
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	2.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.33	0.085	ug/l	
11104-28-2	Aroclor 1221	ND	0.33	0.18	ug/l	
11141-16-5	Aroclor 1232	ND	0.33	0.26	ug/l	
53469-21-9	Aroclor 1242	ND	0.33	0.057	ug/l	
12672-29-6	Aroclor 1248	ND	0.33	0.097	ug/l	
11097-69-1	Aroclor 1254	ND	0.33	0.094	ug/l	
11096-82-5	Aroclor 1260	ND	0.33	0.14	ug/l	
11100-14-4	Aroclor 1268	ND	0.33	0.087	ug/l	
37324-23-5	Aroclor 1262	ND	0.33	0.040	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	108%		20-130%
877-09-8	Tetrachloro-m-xylene	97%		20-130%
2051-24-3	Decachlorobiphenyl	78%		10-122%
2051-24-3	Decachlorobiphenyl	68%		10-122%

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RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TW-1		
Lab Sample ID:	JB94209-13	**Date Sampled:**	05/07/15
Matrix:	AQ - Ground Water	**Date Received:**	05/07/15
		Percent Solids:	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	536	200	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Antimony	< 6.0	6.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Cadmium	< 3.0	3.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Calcium	81500	5000	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Cobalt	< 50	50	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Copper	< 10	10	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Iron	974	100	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Magnesium	25300	5000	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Manganese	246	15	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	05/12/15	05/12/15	JW	SW846 7470A [2]	SW846 7470A [4]
Nickel	34.0	10	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Potassium	15100	10000	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Selenium	10.6	10	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Sodium	497000	10000	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Thallium	< 2.0	2.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Vanadium	< 50	50	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Zinc	108	20	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA36628
(2) Instrument QC Batch: MA36632
(3) Prep QC Batch: MP86343
(4) Prep QC Batch: MP86398

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TW-2		
Lab Sample ID:	JB94209-14	**Date Sampled:**	05/07/15
Matrix:	AQ - Ground Water	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D144327.D	1	05/08/15	BK	n/a	n/a	V2D6061
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TW-2		
Lab Sample ID:	JB94209-14	**Date Sampled:**	05/07/15
Matrix:	AQ - Ground Water	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		76-120%
17060-07-0	1,2-Dichloroethane-D4	89%		73-122%
2037-26-5	Toluene-D8	100%		84-119%
460-00-4	4-Bromofluorobenzene	97%		78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID: TW-2
Lab Sample ID: JB94209-14
Matrix: AQ - Ground Water
Method: SW846 8270D SW846 3510C
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Date Sampled: 05/07/15
Date Received: 05/07/15
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P95334.D	1	05/09/15	KLS	05/09/15	OP83797	EP4119
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	1.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.6	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	ug/l	
51-28-5	2,4-Dinitrophenol	ND	10	6.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.3	ug/l	
	3&4-Methylphenol	ND	2.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	10	0.91	ug/l	
87-86-5	Pentachlorophenol	ND	5.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.55	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	1.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.7	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.5	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.20	ug/l	
98-86-2	Acetophenone	ND	2.0	0.36	ug/l	
120-12-7	Anthracene	ND	1.0	0.19	ug/l	
1912-24-9	Atrazine	ND	2.0	0.42	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.67	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.31	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.22	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.25	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.22	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.27	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.30	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TW-2		
Lab Sample ID:	JB94209-14	**Date Sampled:**	05/07/15
Matrix:	AQ - Ground Water	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.0	0.41	ug/l	
218-01-9	Chrysene	ND	1.0	0.16	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.42	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.43	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.41	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.38	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.32	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.26	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.56	ug/l	
123-91-1	1,4-Dioxane	ND	1.0	0.72	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.28	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.23	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.58	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.25	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.23	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.26	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.55	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.16	ug/l	
86-73-7	Fluorene	ND	1.0	0.27	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.46	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.39	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	0.48	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.29	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.40	ug/l	
78-59-1	Isophorone	ND	2.0	0.34	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.29	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.32	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.26	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.30	ug/l	
91-20-3	Naphthalene	0.59	1.0	0.27	ug/l	J
98-95-3	Nitrobenzene	ND	2.0	0.52	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.38	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.21	ug/l	
85-01-8	Phenanthrene	0.47	1.0	0.19	ug/l	J
129-00-0	Pyrene	ND	1.0	0.19	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		12-110%

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TW-2		
Lab Sample ID:	JB94209-14	**Date Sampled:**	05/07/15
Matrix:	AQ - Ground Water	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	29%		10-110%
118-79-6	2,4,6-Tribromophenol	101%		42-154%
4165-60-0	Nitrobenzene-d5	95%		29-139%
321-60-8	2-Fluorobiphenyl	89%		33-129%
1718-51-0	Terphenyl-d14	67%		10-140%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	9.96	20	ug/l	J
	unknown	11.12	8.9	ug/l	J
	Total TIC, Semi-Volatile		28.9	ug/l	J

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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TW-2		
Lab Sample ID:	JB94209-14	**Date Sampled:**	05/07/15
Matrix:	AQ - Ground Water	**Date Received:**	05/07/15
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G111544.D	1	05/12/15	RK	05/09/15	OP83792	G1G3675
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	2.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0067	0.0028	ug/l	
319-84-6	alpha-BHC	ND	0.0067	0.0043	ug/l	
319-85-7	beta-BHC	ND	0.0067	0.0057	ug/l	
319-86-8	delta-BHC	ND	0.0067	0.0043	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0067	0.0035	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0067	0.0040	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0067	0.0033	ug/l	
60-57-1	Dieldrin	ND	0.0067	0.0033	ug/l	
72-54-8	4,4'-DDD	ND	0.0067	0.0043	ug/l	
72-55-9	4,4'-DDE	ND	0.0067	0.0041	ug/l	
50-29-3	4,4'-DDT	ND	0.0067	0.0034	ug/l	
72-20-8	Endrin	ND	0.0067	0.0030	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0067	0.0048	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0067	0.0049	ug/l	
53494-70-5	Endrin ketone	ND	0.0067	0.0031	ug/l	
959-98-8	Endosulfan-I	ND	0.0067	0.0042	ug/l	
33213-65-9	Endosulfan-II	ND	0.0067	0.0044	ug/l	
76-44-8	Heptachlor	ND	0.0067	0.0033	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0067	0.0054	ug/l	
72-43-5	Methoxychlor	ND	0.013	0.0048	ug/l	
8001-35-2	Toxaphene	ND	0.17	0.099	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		26-132%
877-09-8	Tetrachloro-m-xylene	92%		26-132%
2051-24-3	Decachlorobiphenyl	65%		10-118%
2051-24-3	Decachlorobiphenyl	63%		10-118%

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Accutest Laboratories

Report of Analysis

Client Sample ID:	TW-2		
Lab Sample ID:	JB94209-14	**Date Sampled:**	05/07/15
Matrix:	AQ - Ground Water	**Date Received:**	05/07/15
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G113815.D	1	05/13/15	DG	05/09/15	OP83793	G2G3350
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	2.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.33	0.085	ug/l	
11104-28-2	Aroclor 1221	ND	0.33	0.18	ug/l	
11141-16-5	Aroclor 1232	ND	0.33	0.26	ug/l	
53469-21-9	Aroclor 1242	ND	0.33	0.057	ug/l	
12672-29-6	Aroclor 1248	ND	0.33	0.097	ug/l	
11097-69-1	Aroclor 1254	ND	0.33	0.094	ug/l	
11096-82-5	Aroclor 1260	ND	0.33	0.14	ug/l	
11100-14-4	Aroclor 1268	ND	0.33	0.087	ug/l	
37324-23-5	Aroclor 1262	ND	0.33	0.040	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	113%		20-130%
877-09-8	Tetrachloro-m-xylene	95%		20-130%
2051-24-3	Decachlorobiphenyl	88%		10-122%
2051-24-3	Decachlorobiphenyl	74%		10-122%

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Report of Analysis

Client Sample ID:	TW-2		
Lab Sample ID:	JB94209-14	**Date Sampled:**	05/07/15
Matrix:	AQ - Ground Water	**Date Received:**	05/07/15
		Percent Solids:	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	2860	200	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Antimony	< 6.0	6.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Cadmium	< 3.0	3.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Calcium	21800	5000	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Cobalt	< 50	50	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Copper	14.5	10	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Iron	6160	100	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Lead	6.5	3.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Magnesium	5570	5000	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Manganese	162	15	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	05/12/15	05/12/15	JW	SW846 7470A [2]	SW846 7470A [4]
Nickel	12.4	10	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Potassium	< 10000	10000	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Sodium	41600	10000	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Thallium	< 2.0	2.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Vanadium	< 50	50	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Zinc	20.1	20	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA36628
(2) Instrument QC Batch: MA36632
(3) Prep QC Batch: MP86343
(4) Prep QC Batch: MP86398

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TW-3		
Lab Sample ID:	JB94209-15	**Date Sampled:**	05/07/15
Matrix:	AQ - Ground Water	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D144328.D	1	05/08/15	BK	n/a	n/a	V2D6061
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	30.6	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	

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RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TW-3		
Lab Sample ID:	JB94209-15	**Date Sampled:**	05/07/15
Matrix:	AQ - Ground Water	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		76-120%
17060-07-0	1,2-Dichloroethane-D4	88%		73-122%
2037-26-5	Toluene-D8	99%		84-119%
460-00-4	4-Bromofluorobenzene	97%		78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TW-3		
Lab Sample ID:	JB94209-15	**Date Sampled:**	05/07/15
Matrix:	AQ - Ground Water	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P95335.D	1	05/09/15	KLS	05/09/15	OP83797	EP4119
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.2	1.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.2	1.4	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.1	1.7	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.2	1.9	ug/l	
51-28-5	2,4-Dinitrophenol	ND	10	6.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.2	1.4	ug/l	
95-48-7	2-Methylphenol	ND	2.1	1.3	ug/l	
	3&4-Methylphenol	ND	2.1	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.2	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	10	0.94	ug/l	
87-86-5	Pentachlorophenol	ND	5.2	1.4	ug/l	
108-95-2	Phenol	ND	2.1	0.57	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.2	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.2	1.8	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.2	1.6	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.31	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.21	ug/l	
98-86-2	Acetophenone	ND	2.1	0.38	ug/l	
120-12-7	Anthracene	ND	1.0	0.20	ug/l	
1912-24-9	Atrazine	ND	2.1	0.44	ug/l	
100-52-7	Benzaldehyde	ND	5.2	0.70	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.23	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.25	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.23	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.32	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.23	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.1	0.26	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.1	0.23	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.29	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.1	0.36	ug/l	
106-47-8	4-Chloroaniline	ND	5.2	0.31	ug/l	
86-74-8	Carbazole	ND	1.0	0.18	ug/l	

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Report of Analysis

Client Sample ID:	TW-3		
Lab Sample ID:	JB94209-15	**Date Sampled:**	05/07/15
Matrix:	AQ - Ground Water	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.1	0.42	ug/l	
218-01-9	Chrysene	ND	1.0	0.17	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.1	0.44	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.1	0.45	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.1	0.42	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.1	0.40	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.33	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.27	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.1	0.58	ug/l	
123-91-1	1,4-Dioxane	ND	1.0	0.74	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.29	ug/l	
132-64-9	Dibenzofuran	ND	5.2	0.24	ug/l	
84-74-2	Di-n-butyl phthalate	1.4	2.1	0.61	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	2.1	0.26	ug/l	
84-66-2	Diethyl phthalate	ND	2.1	0.24	ug/l	
131-11-3	Dimethyl phthalate	ND	2.1	0.27	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	1.2	2.1	0.58	ug/l	J
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.28	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.48	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.40	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	0.50	ug/l	
67-72-1	Hexachloroethane	ND	2.1	0.30	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.42	ug/l	
78-59-1	Isophorone	ND	2.1	0.35	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.30	ug/l	
88-74-4	2-Nitroaniline	ND	5.2	0.33	ug/l	
99-09-2	3-Nitroaniline	ND	5.2	0.27	ug/l	
100-01-6	4-Nitroaniline	ND	5.2	0.31	ug/l	
91-20-3	Naphthalene	ND	1.0	0.28	ug/l	
98-95-3	Nitrobenzene	ND	2.1	0.54	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.1	0.39	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.21	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.19	ug/l	
129-00-0	Pyrene	ND	1.0	0.20	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.1	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		12-110%

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Report of Analysis

Client Sample ID:	TW-3		
Lab Sample ID:	JB94209-15	**Date Sampled:**	05/07/15
Matrix:	AQ - Ground Water	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	30%		10-110%
118-79-6	2,4,6-Tribromophenol	107%		42-154%
4165-60-0	Nitrobenzene-d5	97%		29-139%
321-60-8	2-Fluorobiphenyl	91%		33-129%
1718-51-0	Terphenyl-d14	68%		10-140%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	17.26	5.9	ug/l	J
	Total TIC, Semi-Volatile		5.9	ug/l	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID: TW-3
Lab Sample ID: JB94209-15
Matrix: AQ - Ground Water
Method: SW846 8081B SW846 3510C
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Date Sampled: 05/07/15
Date Received: 05/07/15
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G111545.D	1	05/12/15	RK	05/09/15	OP83792	G1G3675
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	2.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0067	0.0028	ug/l	
319-84-6	alpha-BHC	ND	0.0067	0.0043	ug/l	
319-85-7	beta-BHC	ND	0.0067	0.0057	ug/l	
319-86-8	delta-BHC	ND	0.0067	0.0043	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0067	0.0035	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0067	0.0040	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0067	0.0033	ug/l	
60-57-1	Dieldrin	ND	0.0067	0.0033	ug/l	
72-54-8	4,4'-DDD	ND	0.0067	0.0043	ug/l	
72-55-9	4,4'-DDE	ND	0.0067	0.0041	ug/l	
50-29-3	4,4'-DDT	ND	0.0067	0.0034	ug/l	
72-20-8	Endrin	ND	0.0067	0.0030	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0067	0.0048	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0067	0.0049	ug/l	
53494-70-5	Endrin ketone	ND	0.0067	0.0031	ug/l	
959-98-8	Endosulfan-I	ND	0.0067	0.0042	ug/l	
33213-65-9	Endosulfan-II	ND	0.0067	0.0044	ug/l	
76-44-8	Heptachlor	ND	0.0067	0.0033	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0067	0.0054	ug/l	
72-43-5	Methoxychlor	ND	0.013	0.0048	ug/l	
8001-35-2	Toxaphene	ND	0.17	0.099	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	54%		26-132%
877-09-8	Tetrachloro-m-xylene	91%		26-132%
2051-24-3	Decachlorobiphenyl	31%		10-118%
2051-24-3	Decachlorobiphenyl	44%		10-118%

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TW-3		
Lab Sample ID:	JB94209-15	**Date Sampled:**	05/07/15
Matrix:	AQ - Ground Water	**Date Received:**	05/07/15
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G113816.D	1	05/13/15	DG	05/09/15	OP83793	G2G3350
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	2.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.33	0.085	ug/l	
11104-28-2	Aroclor 1221	ND	0.33	0.18	ug/l	
11141-16-5	Aroclor 1232	ND	0.33	0.26	ug/l	
53469-21-9	Aroclor 1242	ND	0.33	0.057	ug/l	
12672-29-6	Aroclor 1248	ND	0.33	0.097	ug/l	
11097-69-1	Aroclor 1254	ND	0.33	0.094	ug/l	
11096-82-5	Aroclor 1260	ND	0.33	0.14	ug/l	
11100-14-4	Aroclor 1268	ND	0.33	0.087	ug/l	
37324-23-5	Aroclor 1262	ND	0.33	0.040	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		20-130%
877-09-8	Tetrachloro-m-xylene	89%		20-130%
2051-24-3	Decachlorobiphenyl	53%		10-122%
2051-24-3	Decachlorobiphenyl	47%		10-122%

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Report of Analysis

Client Sample ID:	TW-3		
Lab Sample ID:	JB94209-15	**Date Sampled:**	05/07/15
Matrix:	AQ - Ground Water	**Date Received:**	05/07/15
		Percent Solids:	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	714	200	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Antimony	< 6.0	6.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Cadmium	< 3.0	3.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Calcium	117000	5000	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Cobalt	< 50	50	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Copper	< 10	10	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Iron	1380	100	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Lead	4.3	3.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Magnesium	22900	5000	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Manganese	399	15	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	05/12/15	05/12/15	JW	SW846 7470A [2]	SW846 7470A [4]
Nickel	51.0	10	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Potassium	25100	10000	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Silver	11.6	10	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Sodium	546000	10000	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Thallium	< 2.0	2.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Vanadium	< 50	50	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Zinc	20.7	20	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA36628
(2) Instrument QC Batch: MA36632
(3) Prep QC Batch: MP86343
(4) Prep QC Batch: MP86398

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TW2-DUP		
Lab Sample ID:	JB94209-16	**Date Sampled:**	05/07/15
Matrix:	AQ - Ground Water	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D144329.D	1	05/08/15	BK	n/a	n/a	V2D6061
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	

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Report of Analysis

Client Sample ID:	TW2-DUP		
Lab Sample ID:	JB94209-16	**Date Sampled:**	05/07/15
Matrix:	AQ - Ground Water	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		76-120%
17060-07-0	1,2-Dichloroethane-D4	88%		73-122%
2037-26-5	Toluene-D8	99%		84-119%
460-00-4	4-Bromofluorobenzene	99%		78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TW2-DUP		
Lab Sample ID:	JB94209-16	**Date Sampled:**	05/07/15
Matrix:	AQ - Ground Water	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P95336.D	1	05/09/15	KLS	05/09/15	OP83797	EP4119
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.6	1.4	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.6	1.4	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.2	1.8	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.6	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	11	7.2	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.6	1.5	ug/l	
95-48-7	2-Methylphenol	ND	2.2	1.4	ug/l	
	3&4-Methylphenol	ND	2.2	1.2	ug/l	
88-75-5	2-Nitrophenol	ND	5.6	2.1	ug/l	
100-02-7	4-Nitrophenol	ND	11	1.0	ug/l	
87-86-5	Pentachlorophenol	ND	5.6	1.5	ug/l	
108-95-2	Phenol	ND	2.2	0.61	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.6	1.6	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.6	1.9	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.6	1.7	ug/l	
83-32-9	Acenaphthene	ND	1.1	0.33	ug/l	
208-96-8	Acenaphthylene	ND	1.1	0.22	ug/l	
98-86-2	Acetophenone	ND	2.2	0.40	ug/l	
120-12-7	Anthracene	ND	1.1	0.21	ug/l	
1912-24-9	Atrazine	ND	2.2	0.47	ug/l	
100-52-7	Benzaldehyde	ND	5.6	0.75	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.1	0.24	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.1	0.27	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.1	0.25	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.1	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.1	0.24	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.2	0.28	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.2	0.25	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.30	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.2	0.38	ug/l	
106-47-8	4-Chloroaniline	ND	5.6	0.33	ug/l	
86-74-8	Carbazole	ND	1.1	0.19	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TW2-DUP		
Lab Sample ID:	JB94209-16	**Date Sampled:**	05/07/15
Matrix:	AQ - Ground Water	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.2	0.45	ug/l	
218-01-9	Chrysene	ND	1.1	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.2	0.47	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.2	0.48	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.2	0.45	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.2	0.42	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.1	0.36	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.1	0.28	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.2	0.62	ug/l	
123-91-1	1,4-Dioxane	ND	1.1	0.79	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.31	ug/l	
132-64-9	Dibenzofuran	ND	5.6	0.25	ug/l	
84-74-2	Di-n-butyl phthalate	1.4	2.2	0.65	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	2.2	0.28	ug/l	
84-66-2	Diethyl phthalate	ND	2.2	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.2	0.29	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.62	ug/l	
206-44-0	Fluoranthene	ND	1.1	0.18	ug/l	
86-73-7	Fluorene	ND	1.1	0.30	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.43	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	0.54	ug/l	
67-72-1	Hexachloroethane	ND	2.2	0.32	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.1	0.45	ug/l	
78-59-1	Isophorone	ND	2.2	0.38	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.32	ug/l	
88-74-4	2-Nitroaniline	ND	5.6	0.35	ug/l	
99-09-2	3-Nitroaniline	ND	5.6	0.29	ug/l	
100-01-6	4-Nitroaniline	ND	5.6	0.33	ug/l	
91-20-3	Naphthalene	1.9	1.1	0.29	ug/l	
98-95-3	Nitrobenzene	ND	2.2	0.58	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.2	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.23	ug/l	
85-01-8	Phenanthrene	0.83	1.1	0.21	ug/l	J
129-00-0	Pyrene	ND	1.1	0.21	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.2	0.49	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		12-110%

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TW2-DUP		
Lab Sample ID:	JB94209-16	**Date Sampled:**	05/07/15
Matrix:	AQ - Ground Water	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	35%		10-110%
118-79-6	2,4,6-Tribromophenol	104%		42-154%
4165-60-0	Nitrobenzene-d5	94%		29-139%
321-60-8	2-Fluorobiphenyl	88%		33-129%
1718-51-0	Terphenyl-d14	67%		10-140%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	17.25	5.9	ug/l	J
	Total TIC, Semi-Volatile		5.9	ug/l	J

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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID: TW2-DUP
Lab Sample ID: JB94209-16
Matrix: AQ - Ground Water
Method: SW846 8081B SW846 3510C
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Date Sampled: 05/07/15
Date Received: 05/07/15
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G111546.D	1	05/12/15	RK	05/09/15	OP83792	G1G3675
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	2.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0067	0.0028	ug/l	
319-84-6	alpha-BHC	ND	0.0067	0.0043	ug/l	
319-85-7	beta-BHC	ND	0.0067	0.0057	ug/l	
319-86-8	delta-BHC	ND	0.0067	0.0043	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0067	0.0035	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0067	0.0040	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0067	0.0033	ug/l	
60-57-1	Dieldrin	ND	0.0067	0.0033	ug/l	
72-54-8	4,4'-DDD	ND	0.0067	0.0043	ug/l	
72-55-9	4,4'-DDE	ND	0.0067	0.0041	ug/l	
50-29-3	4,4'-DDT	ND	0.0067	0.0034	ug/l	
72-20-8	Endrin	ND	0.0067	0.0030	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0067	0.0048	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0067	0.0049	ug/l	
53494-70-5	Endrin ketone	ND	0.0067	0.0031	ug/l	
959-98-8	Endosulfan-I	ND	0.0067	0.0042	ug/l	
33213-65-9	Endosulfan-II	ND	0.0067	0.0044	ug/l	
76-44-8	Heptachlor	ND	0.0067	0.0033	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0067	0.0054	ug/l	
72-43-5	Methoxychlor	ND	0.013	0.0048	ug/l	
8001-35-2	Toxaphene	ND	0.17	0.099	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	67%		26-132%
877-09-8	Tetrachloro-m-xylene	75%		26-132%
2051-24-3	Decachlorobiphenyl	46%		10-118%
2051-24-3	Decachlorobiphenyl	48%		10-118%

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID: TW2-DUP
Lab Sample ID: JB94209-16
Matrix: AQ - Ground Water
Method: SW846 8082A SW846 3510C
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Date Sampled: 05/07/15
Date Received: 05/07/15
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G113817.D	1	05/13/15	DG	05/09/15	OP83793	G2G3350
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	2.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.33	0.085	ug/l	
11104-28-2	Aroclor 1221	ND	0.33	0.18	ug/l	
11141-16-5	Aroclor 1232	ND	0.33	0.26	ug/l	
53469-21-9	Aroclor 1242	ND	0.33	0.057	ug/l	
12672-29-6	Aroclor 1248	ND	0.33	0.097	ug/l	
11097-69-1	Aroclor 1254	ND	0.33	0.094	ug/l	
11096-82-5	Aroclor 1260	ND	0.33	0.14	ug/l	
11100-14-4	Aroclor 1268	ND	0.33	0.087	ug/l	
37324-23-5	Aroclor 1262	ND	0.33	0.040	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		20-130%
877-09-8	Tetrachloro-m-xylene	78%		20-130%
2051-24-3	Decachlorobiphenyl	66%		10-122%
2051-24-3	Decachlorobiphenyl	57%		10-122%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TW2-DUP		
Lab Sample ID:	JB94209-16	**Date Sampled:**	05/07/15
Matrix:	AQ - Ground Water	**Date Received:**	05/07/15
		Percent Solids:	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	2730	200	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Antimony	< 6.0	6.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Cadmium	< 3.0	3.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Calcium	22300	5000	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Cobalt	< 50	50	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Copper	< 10	10	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Iron	5710	100	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Lead	5.8	3.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Magnesium	5700	5000	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Manganese	155	15	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	05/12/15	05/12/15	JW	SW846 7470A [2]	SW846 7470A [4]
Nickel	11.6	10	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Potassium	10300	10000	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Sodium	43000	10000	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Thallium	< 2.0	2.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Vanadium	< 50	50	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Zinc	25.2	20	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA36628
(2) Instrument QC Batch: MA36632
(3) Prep QC Batch: MP86343
(4) Prep QC Batch: MP86398

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	FB		
Lab Sample ID:	JB94209-17	**Date Sampled:**	05/07/15
Matrix:	AQ - Field Blank Water	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P95337.D	1	05/09/15	KLS	05/09/15	OP83797	EP4119
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.4	1.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.4	1.4	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.2	1.7	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.4	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	11	7.0	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.4	1.4	ug/l	
95-48-7	2-Methylphenol	ND	2.2	1.4	ug/l	
	3&4-Methylphenol	ND	2.2	1.2	ug/l	
88-75-5	2-Nitrophenol	ND	5.4	2.0	ug/l	
100-02-7	4-Nitrophenol	ND	11	0.98	ug/l	
87-86-5	Pentachlorophenol	ND	5.4	1.5	ug/l	
108-95-2	Phenol	ND	2.2	0.59	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.4	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.4	1.8	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.4	1.7	ug/l	
83-32-9	Acenaphthene	ND	1.1	0.32	ug/l	
208-96-8	Acenaphthylene	ND	1.1	0.22	ug/l	
98-86-2	Acetophenone	ND	2.2	0.39	ug/l	
120-12-7	Anthracene	ND	1.1	0.20	ug/l	
1912-24-9	Atrazine	ND	2.2	0.45	ug/l	
100-52-7	Benzaldehyde	ND	5.4	0.72	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.1	0.23	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.1	0.26	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.1	0.24	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.1	0.33	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.1	0.24	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.2	0.27	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.2	0.24	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.29	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.2	0.37	ug/l	
106-47-8	4-Chloroaniline	ND	5.4	0.32	ug/l	
86-74-8	Carbazole	ND	1.1	0.18	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB		
Lab Sample ID:	JB94209-17	**Date Sampled:**	05/07/15
Matrix:	AQ - Field Blank Water	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.2	0.44	ug/l	
218-01-9	Chrysene	ND	1.1	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.2	0.45	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.2	0.47	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.2	0.44	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.2	0.41	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.1	0.35	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.1	0.27	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.2	0.60	ug/l	
123-91-1	1,4-Dioxane	ND	1.1	0.77	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.30	ug/l	
132-64-9	Dibenzofuran	ND	5.4	0.25	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.2	0.62	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.2	0.27	ug/l	
84-66-2	Diethyl phthalate	ND	2.2	0.25	ug/l	
131-11-3	Dimethyl phthalate	ND	2.2	0.28	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.60	ug/l	
206-44-0	Fluoranthene	ND	1.1	0.17	ug/l	
86-73-7	Fluorene	ND	1.1	0.29	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.49	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.42	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.2	0.31	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.1	0.43	ug/l	
78-59-1	Isophorone	ND	2.2	0.36	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.31	ug/l	
88-74-4	2-Nitroaniline	ND	5.4	0.34	ug/l	
99-09-2	3-Nitroaniline	ND	5.4	0.28	ug/l	
100-01-6	4-Nitroaniline	ND	5.4	0.32	ug/l	
91-20-3	Naphthalene	ND	1.1	0.28	ug/l	
98-95-3	Nitrobenzene	ND	2.2	0.56	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.2	0.41	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.1	0.20	ug/l	
129-00-0	Pyrene	ND	1.1	0.21	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.2	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		12-110%

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB		
Lab Sample ID:	JB94209-17	**Date Sampled:**	05/07/15
Matrix:	AQ - Field Blank Water	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	31%		10-110%
118-79-6	2,4,6-Tribromophenol	105%		42-154%
4165-60-0	Nitrobenzene-d5	97%		29-139%
321-60-8	2-Fluorobiphenyl	92%		33-129%
1718-51-0	Terphenyl-d14	90%		10-140%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	17.03	7.9	ug/l	J
	Total TIC, Semi-Volatile		7.9	ug/l	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID: FB
Lab Sample ID: JB94209-17
Matrix: AQ - Field Blank Water
Method: SW846 8081B SW846 3510C
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Date Sampled: 05/07/15
Date Received: 05/07/15
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G111547.D	1	05/12/15	RK	05/09/15	OP83792	G1G3675
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	2.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0067	0.0028	ug/l	
319-84-6	alpha-BHC	ND	0.0067	0.0043	ug/l	
319-85-7	beta-BHC	ND	0.0067	0.0057	ug/l	
319-86-8	delta-BHC	ND	0.0067	0.0043	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0067	0.0035	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0067	0.0040	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0067	0.0033	ug/l	
60-57-1	Dieldrin	ND	0.0067	0.0033	ug/l	
72-54-8	4,4'-DDD	ND	0.0067	0.0043	ug/l	
72-55-9	4,4'-DDE	ND	0.0067	0.0041	ug/l	
50-29-3	4,4'-DDT	ND	0.0067	0.0034	ug/l	
72-20-8	Endrin	ND	0.0067	0.0030	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0067	0.0048	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0067	0.0049	ug/l	
53494-70-5	Endrin ketone	ND	0.0067	0.0031	ug/l	
959-98-8	Endosulfan-I	ND	0.0067	0.0042	ug/l	
33213-65-9	Endosulfan-II	ND	0.0067	0.0044	ug/l	
76-44-8	Heptachlor	ND	0.0067	0.0033	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0067	0.0054	ug/l	
72-43-5	Methoxychlor	ND	0.013	0.0048	ug/l	
8001-35-2	Toxaphene	ND	0.17	0.099	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		26-132%
877-09-8	Tetrachloro-m-xylene	88%		26-132%
2051-24-3	Decachlorobiphenyl	33%		10-118%
2051-24-3	Decachlorobiphenyl	33%		10-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	FB		
Lab Sample ID:	JB94209-17	**Date Sampled:**	05/07/15
Matrix:	AQ - Field Blank Water	**Date Received:**	05/07/15
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G113818.D	1	05/13/15	DG	05/09/15	OP83793	G2G3350
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	2.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.33	0.085	ug/l	
11104-28-2	Aroclor 1221	ND	0.33	0.18	ug/l	
11141-16-5	Aroclor 1232	ND	0.33	0.26	ug/l	
53469-21-9	Aroclor 1242	ND	0.33	0.057	ug/l	
12672-29-6	Aroclor 1248	ND	0.33	0.097	ug/l	
11097-69-1	Aroclor 1254	ND	0.33	0.094	ug/l	
11096-82-5	Aroclor 1260	ND	0.33	0.14	ug/l	
11100-14-4	Aroclor 1268	ND	0.33	0.087	ug/l	
37324-23-5	Aroclor 1262	ND	0.33	0.040	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	114%		20-130%
877-09-8	Tetrachloro-m-xylene	94%		20-130%
2051-24-3	Decachlorobiphenyl	48%		10-122%
2051-24-3	Decachlorobiphenyl	41%		10-122%

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Report of Analysis

Client Sample ID:	FB		
Lab Sample ID:	JB94209-17	**Date Sampled:**	05/07/15
Matrix:	AQ - Field Blank Water	**Date Received:**	05/07/15
		Percent Solids:	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Antimony	< 6.0	6.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Cadmium	< 3.0	3.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Calcium	< 5000	5000	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Cobalt	< 50	50	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Copper	< 10	10	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Iron	< 100	100	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Magnesium	< 5000	5000	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Manganese	< 15	15	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	05/12/15	05/12/15	JW	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 10	10	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Potassium	< 10000	10000	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Sodium	< 10000	10000	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Thallium	< 2.0	2.0	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Vanadium	< 50	50	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	05/09/15	05/11/15	KK	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA36628
(2) Instrument QC Batch: MA36632
(3) Prep QC Batch: MP86343
(4) Prep QC Batch: MP86398

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB5-2 DUP		
Lab Sample ID:	JB94209-18	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	79.9
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I204010.D	1	05/12/15	SJM	n/a	n/a	VI8197
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	11.0	13	2.8	ug/kg	J
71-43-2	Benzene	ND	0.63	0.17	ug/kg	
74-97-5	Bromochloromethane	ND	6.3	0.39	ug/kg	
75-27-4	Bromodichloromethane	ND	2.5	0.20	ug/kg	
75-25-2	Bromoform	ND	6.3	0.30	ug/kg	
74-83-9	Bromomethane	ND	6.3	0.46	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	2.4	ug/kg	
75-15-0	Carbon disulfide	ND	2.5	0.29	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.5	0.29	ug/kg	
108-90-7	Chlorobenzene	ND	2.5	0.19	ug/kg	
75-00-3	Chloroethane	ND	6.3	0.60	ug/kg	
67-66-3	Chloroform	ND	2.5	0.19	ug/kg	
74-87-3	Chloromethane	ND	6.3	0.33	ug/kg	
110-82-7	Cyclohexane	ND	2.5	0.40	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.68	ug/kg	
124-48-1	Dibromochloromethane	ND	2.5	0.26	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.3	0.15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.3	0.20	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.3	0.28	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.3	0.45	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.3	0.18	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.3	0.74	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.3	0.97	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.3	0.74	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.5	0.30	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.15	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.22	ug/kg	
100-41-4	Ethylbenzene	0.26	1.3	0.20	ug/kg	J
76-13-1	Freon 113	ND	6.3	0.56	ug/kg	
591-78-6	2-Hexanone	ND	6.3	1.7	ug/kg	

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Report of Analysis

Client Sample ID:	SB5-2 DUP		
Lab Sample ID:	JB94209-18	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260C	**Percent Solids:**	79.9
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.5	0.13	ug/kg	
79-20-9	Methyl Acetate	ND	6.3	1.1	ug/kg	
108-87-2	Methylcyclohexane	ND	2.5	0.28	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.19	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.3	0.57	ug/kg	
75-09-2	Methylene chloride	1.6	6.3	1.2	ug/kg	J
100-42-5	Styrene	ND	2.5	0.22	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.22	ug/kg	
127-18-4	Tetrachloroethene	ND	2.5	0.38	ug/kg	
108-88-3	Toluene	0.34	1.3	0.26	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	6.3	0.22	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.3	0.21	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.19	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.5	0.18	ug/kg	
79-01-6	Trichloroethene	ND	1.3	0.18	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.3	0.31	ug/kg	
75-01-4	Vinyl chloride	ND	2.5	0.25	ug/kg	
	m,p-Xylene	1.2	1.3	0.44	ug/kg	J
95-47-6	o-Xylene	0.38	1.3	0.34	ug/kg	J
1330-20-7	Xylene (total)	1.6	1.3	0.34	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		70-122%
17060-07-0	1,2-Dichloroethane-D4	92%		68-124%
2037-26-5	Toluene-D8	96%		77-125%
460-00-4	4-Bromofluorobenzene	95%		72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB5-2 DUP		
Lab Sample ID:	JB94209-18	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	79.9
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P48477.D	1	05/11/15	SD	05/09/15	OP83787	E2P2069
Run #2							

	Initial Weight	Final Volume
Run #1	32.1 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	78	39	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	39	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	63	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	66	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	190	48	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	190	48	ug/kg	
95-48-7	2-Methylphenol	ND	78	44	ug/kg	
	3&4-Methylphenol	ND	78	50	ug/kg	
88-75-5	2-Nitrophenol	ND	190	41	ug/kg	
100-02-7	4-Nitrophenol	ND	390	66	ug/kg	
87-86-5	Pentachlorophenol	ND	190	67	ug/kg	
108-95-2	Phenol	ND	78	41	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	40	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	45	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	37	ug/kg	
83-32-9	Acenaphthene	ND	39	11	ug/kg	
208-96-8	Acenaphthylene	ND	39	12	ug/kg	
98-86-2	Acetophenone	ND	190	6.9	ug/kg	
120-12-7	Anthracene	ND	39	14	ug/kg	
1912-24-9	Atrazine	ND	78	7.7	ug/kg	
56-55-3	Benzo(a)anthracene	27.0	39	13	ug/kg	J
50-32-8	Benzo(a)pyrene	20.7	39	12	ug/kg	J
205-99-2	Benzo(b)fluoranthene	28.1	39	13	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	ND	39	15	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	39	15	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	78	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	78	23	ug/kg	
92-52-4	1,1'-Biphenyl	ND	78	4.5	ug/kg	
100-52-7	Benzaldehyde	ND	190	9.0	ug/kg	
91-58-7	2-Chloronaphthalene	ND	78	12	ug/kg	
106-47-8	4-Chloroaniline	ND	190	12	ug/kg	
86-74-8	Carbazole	ND	78	18	ug/kg	

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB5-2 DUP		
Lab Sample ID:	JB94209-18	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	79.9
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	78	12	ug/kg	
218-01-9	Chrysene	25.3	39	13	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	78	16	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	78	12	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	78	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	78	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	39	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	39	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	78	9.9	ug/kg	
123-91-1	1,4-Dioxane	ND	39	25	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	39	13	ug/kg	
132-64-9	Dibenzofuran	ND	78	12	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	78	8.7	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	78	19	ug/kg	
84-66-2	Diethyl phthalate	ND	78	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	78	14	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	78	34	ug/kg	
206-44-0	Fluoranthene	47.4	39	17	ug/kg	
86-73-7	Fluorene	ND	39	13	ug/kg	
118-74-1	Hexachlorobenzene	ND	78	13	ug/kg	
87-68-3	Hexachlorobutadiene	ND	39	11	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	390	40	ug/kg	
67-72-1	Hexachloroethane	ND	190	11	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	39	14	ug/kg	
78-59-1	Isophorone	ND	78	10	ug/kg	
91-57-6	2-Methylnaphthalene	ND	78	22	ug/kg	
88-74-4	2-Nitroaniline	ND	190	17	ug/kg	
99-09-2	3-Nitroaniline	ND	190	16	ug/kg	
100-01-6	4-Nitroaniline	ND	190	15	ug/kg	
91-20-3	Naphthalene	ND	39	11	ug/kg	
98-95-3	Nitrobenzene	ND	78	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	78	9.5	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	23	ug/kg	
85-01-8	Phenanthrene	43.1	39	18	ug/kg	
129-00-0	Pyrene	46.4	39	15	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	64%		22-121%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB5-2 DUP		
Lab Sample ID:	JB94209-18	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	79.9
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	61%		27-119%
118-79-6	2,4,6-Tribromophenol	71%		17-158%
4165-60-0	Nitrobenzene-d5	79%		33-127%
321-60-8	2-Fluorobiphenyl	77%		41-121%
1718-51-0	Terphenyl-d14	93%		44-137%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	2.88	600	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB5-2 DUP		
Lab Sample ID:	JB94209-18	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8081B SW846 3546	**Percent Solids:**	79.9
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G56102.D	1	05/14/15	RK	05/14/15	OP83920	G4G1469
Run #2							

	Initial Weight	Final Volume
Run #1	16.4 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.76	0.35	ug/kg	
319-84-6	alpha-BHC	ND	0.76	0.23	ug/kg	
319-85-7	beta-BHC	ND	0.76	0.48	ug/kg	
319-86-8	delta-BHC	ND	0.76	0.38	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.76	0.37	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.76	0.28	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.76	0.53	ug/kg	
60-57-1	Dieldrin	ND	0.76	0.30	ug/kg	
72-54-8	4,4'-DDD	1.4	0.76	0.42	ug/kg	
72-55-9	4,4'-DDE	ND	0.76	0.31	ug/kg	
50-29-3	4,4'-DDT	4.9	0.76	0.38	ug/kg	
72-20-8	Endrin	ND	0.76	0.25	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.76	0.33	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.76	0.40	ug/kg	
959-98-8	Endosulfan-I	ND	0.76	0.29	ug/kg	
33213-65-9	Endosulfan-II	ND	0.76	0.46	ug/kg	
76-44-8	Heptachlor	ND	0.76	0.37	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.76	0.29	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.75	ug/kg	
53494-70-5	Endrin ketone	ND	0.76	0.31	ug/kg	
8001-35-2	Toxaphene	ND	19	9.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	75%		10-129%
877-09-8	Tetrachloro-m-xylene	75%		10-129%
2051-24-3	Decachlorobiphenyl	80%		10-144%
2051-24-3	Decachlorobiphenyl	99%		10-144%

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SB5-2 DUP		
Lab Sample ID:	JB94209-18	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8082A SW846 3546	**Percent Solids:**	79.9
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G113726.D	1	05/11/15	DG	05/10/15	OP83802	G2G3349
Run #2							

	Initial Weight	Final Volume
Run #1	16.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	10	ug/kg	
11104-28-2	Aroclor 1221	ND	38	23	ug/kg	
11141-16-5	Aroclor 1232	ND	38	19	ug/kg	
53469-21-9	Aroclor 1242	ND	38	12	ug/kg	
12672-29-6	Aroclor 1248	ND	38	12	ug/kg	
11097-69-1	Aroclor 1254	ND	38	18	ug/kg	
11096-82-5	Aroclor 1260	ND	38	13	ug/kg	
11100-14-4	Aroclor 1268	ND	38	11	ug/kg	
37324-23-5	Aroclor 1262	ND	38	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	68%		14-139%
877-09-8	Tetrachloro-m-xylene	62%		14-139%
2051-24-3	Decachlorobiphenyl	100%		10-155%
2051-24-3	Decachlorobiphenyl	161% [a]		10-155%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB5-2 DUP		
Lab Sample ID:	JB94209-18	**Date Sampled:**	05/07/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
		Percent Solids:	79.9
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	8880	62	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Antimony	< 2.5	2.5	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Arsenic	5.9	2.5	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Barium	36.9	25	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Beryllium	0.50	0.25	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Cadmium	< 0.62	0.62	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Calcium	1030	620	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Chromium	15.5	1.2	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Cobalt	9.4	6.2	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Copper	24.1	3.1	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Iron	19900	62	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Lead	39.8	2.5	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Magnesium	2790	620	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Manganese	488	1.9	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Mercury	0.29	0.038	mg/kg	1	05/12/15	05/12/15	DP	SW846 7471B [2]	SW846 7471B [4]
Nickel	19.3	5.0	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Potassium	1260	1200	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Selenium	< 2.5	2.5	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Silver	< 0.62	0.62	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Sodium	< 1200	1200	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Thallium	< 1.2	1.2	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Vanadium	20.1	6.2	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]
Zinc	74.7	6.2	mg/kg	1	05/09/15	05/12/15	ND	SW846 6010C [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA36629
(2) Instrument QC Batch: MA36633
(3) Prep QC Batch: MP86349
(4) Prep QC Batch: MP86397

RL = Reporting Limit

New Jersey

ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

ACCUTEST LABORATORIES

SO
GW
FB

CHAIN OF CUSTODY

PN
F

PAGE 1 OF 3

2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: JB94209

Client / Reporting Information

Company Name: PT Consultants Inc
Street Address: 629 Creek Rd
City / State / Zip: Bellmawr NJ
Project Contact: Brad Summerville
E-mail:
Phone #: 856 251 9980
Fax #:
Sampler(s) Name(s): Bob DiMenna
Phone #:

Project Information

Project Name: Van Brunt
Street: 430 Van Brunt
City / State: Brooklyn NY
Project #: 18090-02
Client Purchase Order #:
Project Manager: Kelly Patterson

Billing Information (If different from Report to)

Company Name:
Street Address:
City / State / Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	VOA+10	SVOC+20	Pesticides/PCBs	TAL Metals							LAB USE ONLY
1	SB1-1		5/7/15	9:21	BD	SO	3					X				X	X	X	X							
2	SB1-2			9:26			3					X				X	X	X	X							E6
3	SB2-1			10:30			3					X				X	X	X	X							A21
4	SB2-2			10:35			3					X				X	X	X	X							C12
5	SB3-1			13:22			2					X				X	X	X	X							UP01
6	SB3-2			13:30			2					X				X	X	X	X							
7	SB4-1			11:09			3					X				X	X	X	X							D40
8	SB4-2			11:15			3					X				X	X	X	X							4N6
9	SB5-1			11:46			3					X				X	X	X	X							P61
10	SB5-2			11:51			3					X				X	X	X	X							
11	SB6-1			13:45			2					X				X	X	X	X							
12	SB6-2			13:50			2					X				X	X	X	X							

Turnaround Time (Business days)

- ☐ Std. 10 Business Days
- ☒ 5 Day ~~RUSH~~ Standard
- ☐ 3 Day RUSH
- ☐ 2 Day RUSH
- ☐ 1 Day RUSH
- ☐ other _____

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

INITIAL ASSESSMENT JK 3B

LABEL VERIFICATION KV

Data Deliverable Information

- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" (Level 2)
- ☐ FULLT1 (Level 3+4)
- ☒ NJ Reduced
- ☐ Commercial "C"
- ☐ *NJ Data of Known Quality Protocol Reporting*
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☒ EDD Format EDSA7
- ☐ Other _____

Commercial "A" = Results Only, Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date/Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	5/7/15 17:35	1 Jane Xuan	2		2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # 153,155 ☑ Intact ☐ Not intact	Preserved where applicable ☑ JK	On Ice ☑ Cooler Temp. 2.3°C IR

JB94209: Chain of Custody
Page 1 of 5

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: JB94209

Client / Reporting Information

Company Name: PT Consultants Inc
Street Address: 629 Creek Rd
City / State / Zip: Bellmawr NJ
Project Contact: Brad Summerville
E-mail:
Phone #: 856 251 9980
Fax #:
Sampler(s) Name(s): Bob DiMeno
Phone #:

Project Information

Project Name: Van Brunt
Street: 430 Van Brunt St
City / State: Brooklyn NY
Project #: 12090-02
Client Purchase Order #:
Project Manager: Kelly Patterson

Billing Information (if different from Report to)

Company Name:
Street Address:
City / State / Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	VOA+10	SVOC+20	Pesticides/PCBs	TAL Metals Unfiltered	TAL Metals-Filtered *	LAB USE ONLY
13F	TW-1	*	5/7/15	10:10	BD	GW	9	3		1		5				X	X	X	X	X	
14F	TW-2			11:45												X	X	X	X	X	
15F	TW-3			14:35												X	X	X	X	X	
16F	TW2-DUP	*		13:00												X	X	X	X	X	

Turnaround Time (Business days)

- Std. 10 Business Days
- [x] 5 Day RUSH Standard
- 3 Day RUSH
- 2 Day RUSH
- 1 Day RUSH
- other

Approved By (Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- Commercial "A" (Level 1)
- Commercial "B" (Level 2)
- FULLT1 (Level 3+4)
- [x] NJ Reduced
- Commercial "C"
- NJ Data of Known Quality Protocol Reporting
- NYASP Category A
- NYASP Category B
- State Forms
- [x] EDD Format EDA7
- Other

Commercial "A" = Results Only, Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

* Hold filtered metals analysis

K2 X 300ml RUZ 5/7/15

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	5/7/15 17:35	1	2		2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	Intact / Not intact	Preserved where applicable / On ice / Cooler Temp.

JB94209: Chain of Custody
Page 2 of 5

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: JB94209

Client / Reporting Information

Company Name: PT Consultants Inc
Street Address: 629 Creek Rd
City / State / Zip: Bellmawr NJ
Project Contact / E-mail: Brad Somersville
Phone # / Fax #: 856 251 9980
Sampler(s) Name(s) / Phone #: Bob DiMeme

Project Information

Project Name: Van Brunt St
Street: 430 Van Brunt
City / State: Brooklyn NY
Project #: 12090-02
Client Purchase Order #:
Project Manager: Kelly Pattison

Billing Information (if different from Report to)

Company Name:
Street Address:
City / State / Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	VOC+10	SVOC+20	Pesticide/PCB	TAL Metals-Unfiltered	TAL Metals-Filtered*	LAB USE ONLY
17F	FB	*	5/7/15	1610	BD		9	3		1		5				X	X	X	X	X	
	Trip Blank															X	X	X	X	X	
18	JB 5-2 Dup			1157	BD		3					3				X	X	X	X		

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Turnaround Time (Business days)

- ☐ Std. 10 Business Days
- ☒ 5 Day ~~RUSH~~ standard
- ☐ 3 Day RUSH
- ☐ 2 Day RUSH
- ☐ 1 Day RUSH
- ☐ other _____

Approved By (Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" (Level 2)
- ☐ FULLT1 (Level 3+4)
- ☒ NJ Reduced
- ☐ Commercial "C"
- ☐ NJ Data of Known Quality Protocol Reporting
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☒ EDD Format EDD#7
- ☐ Other _____

Commercial "A" = Results Only, Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

*Hold Filtered TAL Metals analysis

* 2 x 300 ml RUZ (B) 5/7/15

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	5/7/15 15:35	1 [signature]	2		2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐ On Ice ☐ Cooler Temp.

5.1 5

JB94209: Chain of Custody
Page 3 of 5

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB94209 **Client:** PT CONSULTANTS **Project:** Von Brunt

Date / Time Received: 5/7/2015 5:35:00 PM **Delivery Method:** Client **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (2.3/1.1); #2: (3/1.8); 0

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☐	☑

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	
4. No, Coolers	2	

Quality Control Preservatio	Y	N	N/A
1. Trip Blank present / cooler:	☐	☑	☐
2. Trip Blank listed on COC:	☑	☐	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☐	☑
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments
-15 VOC vials have collection time of 12:35, not 14:35. ID and date ok. Other bottle are ok
-16 Did not receive Diss LF metals volume. A 100ml aliquot was taken from SVOC bottle for Diss metals.
-17 Did not receive VOC volume for FB

Did not receive TB. TB is listed on COC

Accutest Laboratories
V:732.329.0200
2235 US Highway 130
F: 732.329.3499
Dayton, New Jersey
www/accutest.com

Sample Receipt Summary - Problem Resolution

Accutest Job Number: JB94209

Initiator: ANDREWS

CSR: Kelly

Response Date: 5/13/2015

Response: Sample -15 correct collection time is 12:35. Please proceed as noted.

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

Internal Sample Tracking Chronicle

PT Consultants

12090-02 430 Van Brunt Street, Brooklyn, NY

Job No: JB94209

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB94209-1 SB1-1	Collected: 07-MAY-15 09:21 By: BD		Received: 07-MAY-15 By: AS			
JB94209-1	SM2540 G-97	08-MAY-15 11:30	KP			%SOL
JB94209-1	SW846 8260C	08-MAY-15 13:57	SJM			V8260TCL20+
JB94209-1	SW846 8082A	11-MAY-15 16:35	DG	10-MAY-15	AQ	P8082PCB11AO
JB94209-1	SW846 8270D	11-MAY-15 21:26	SD	09-MAY-15	FN	AB8270TCL20+
JB94209-1	SW846 6010C	11-MAY-15 23:01	ND	09-MAY-15	MB	AG,AL,AS,BA,BE,CA,CD,CO,CR, CU,FE,K,MG,MN,NA,NI,PB,SB, SE,TL,V,ZN
JB94209-1	SW846 7471B	12-MAY-15 14:56	DP	12-MAY-15	DP	HG
JB94209-1	SW846 8081B	14-MAY-15 10:31	RK	14-MAY-15	AC	P8081PESTTCL
JB94209-2 SB1-2	Collected: 07-MAY-15 09:26 By: BD		Received: 07-MAY-15 By: AS			
JB94209-2	SM2540 G-97	08-MAY-15 11:30	KP			%SOL
JB94209-2	SW846 8260C	09-MAY-15 04:48	SJM			V8260TCL20+
JB94209-2	SW846 8082A	11-MAY-15 16:52	DG	10-MAY-15	AQ	P8082PCB11AO
JB94209-2	SW846 8270D	11-MAY-15 19:41	SD	09-MAY-15	FN	AB8270TCL20+
JB94209-2	SW846 6010C	11-MAY-15 23:07	ND	09-MAY-15	MB	AG,AL,AS,BA,BE,CA,CD,CO,CR, CU,FE,K,MG,MN,NA,NI,PB,SB, SE,TL,V,ZN
JB94209-2	SW846 7471B	12-MAY-15 14:54	DP	12-MAY-15	DP	HG
JB94209-2	SW846 8081B	14-MAY-15 10:46	RK	14-MAY-15	AC	P8081PESTTCL
JB94209-3 SB2-1	Collected: 07-MAY-15 10:30 By: BD		Received: 07-MAY-15 By: AS			
JB94209-3	SM2540 G-97	08-MAY-15 11:30	KP			%SOL
JB94209-3	SW846 8260C	09-MAY-15 05:17	SJM			V8260TCL20+
JB94209-3	SW846 8082A	11-MAY-15 17:08	DG	10-MAY-15	AQ	P8082PCB11AO
JB94209-3	SW846 8270D	11-MAY-15 22:08	SD	09-MAY-15	FN	AB8270TCL20+
JB94209-3	SW846 8270D	11-MAY-15 22:29	SD	09-MAY-15	FN	AB8270TCL20+
JB94209-3	SW846 6010C	12-MAY-15 00:23	ND	09-MAY-15	MB	AG,AL,AS,BA,BE,CA,CD,CO,CR, CU,FE,K,MG,MN,NA,NI,PB,SB, SE,TL,V,ZN
JB94209-3	SW846 7471B	12-MAY-15 14:57	DP	12-MAY-15	DP	HG
JB94209-3	SW846 8081B	14-MAY-15 11:00	RK	14-MAY-15	AC	P8081PESTTCL
JB94209-3	SW846 8081B	14-MAY-15 12:48	RK	14-MAY-15	AC	P8081PESTTCL

Internal Sample Tracking Chronicle

PT Consultants

12090-02 430 Van Brunt Street, Brooklyn, NY

Job No: JB94209

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB94209-4 SB2-2	Collected: 07-MAY-15 10:35 By: BD		Received: 07-MAY-15 By: AS			
JB94209-4	SM2540 G-97	08-MAY-15 11:30	KP			%SOL
JB94209-4	SW846 8260C	09-MAY-15 05:45	SJM			V8260TCL20+
JB94209-4	SW846 8082A	11-MAY-15 17:25	DG	10-MAY-15	AQ	P8082PCB11AO
JB94209-4	SW846 8270D	11-MAY-15 21:47	SD	09-MAY-15	FN	AB8270TCL20+
JB94209-4	SW846 6010C	12-MAY-15 00:29	ND	09-MAY-15	MB	AG,AL,AS,BA,BE,CA,CD,CO,CR, CU,FE,K,MG,MN,NA,NI,PB,SB, SE,TL,V,ZN
JB94209-4	SW846 7471B	12-MAY-15 14:59	DP	12-MAY-15	DP	HG
JB94209-4	SW846 8081B	14-MAY-15 11:15	RK	14-MAY-15	AC	P8081PESTTCL
JB94209-5 SB3-1	Collected: 07-MAY-15 13:22 By: BD		Received: 07-MAY-15 By: AS			
JB94209-5	SM2540 G-97	08-MAY-15 11:30	KP			%SOL
JB94209-5	SW846 8260C	09-MAY-15 06:13	SJM			V8260TCL20+
JB94209-5	SW846 8082A	11-MAY-15 17:42	DG	10-MAY-15	AQ	P8082PCB11AO
JB94209-5	SW846 8270D	11-MAY-15 22:50	SD	09-MAY-15	FN	AB8270TCL20+
JB94209-5	SW846 8270D	11-MAY-15 23:11	SD	09-MAY-15	FN	AB8270TCL20+
JB94209-5	SW846 6010C	12-MAY-15 00:34	ND	09-MAY-15	MB	AG,AL,AS,BA,BE,CA,CD,CO,CR, CU,FE,K,MG,MN,NA,NI,PB,SB, SE,TL,V,ZN
JB94209-5	SW846 7471B	12-MAY-15 15:36	DP	12-MAY-15	DP	HG
JB94209-5	SW846 8081B	14-MAY-15 11:29	RK	14-MAY-15	AC	P8081PESTTCL
JB94209-5	SW846 8081B	14-MAY-15 16:12	RK	14-MAY-15	AC	P8081PESTTCL
JB94209-6 SB3-2	Collected: 07-MAY-15 13:30 By: BD		Received: 07-MAY-15 By: AS			
JB94209-6	SM2540 G-97	08-MAY-15 11:30	KP			%SOL
JB94209-6	SW846 8260C	09-MAY-15 06:42	SJM			V8260TCL20+
JB94209-6	SW846 8082A	11-MAY-15 19:07	DG	10-MAY-15	AQ	P8082PCB11AO
JB94209-6	SW846 8270D	11-MAY-15 20:02	SD	09-MAY-15	FN	AB8270TCL20+
JB94209-6	SW846 6010C	12-MAY-15 00:40	ND	09-MAY-15	MB	AG,AL,AS,BA,BE,CA,CD,CO,CR, CU,FE,K,MG,MN,NA,NI,PB,SB, SE,TL,V,ZN
JB94209-6	SW846 7471B	12-MAY-15 15:02	DP	12-MAY-15	DP	HG

Internal Sample Tracking Chronicle

PT Consultants

12090-02 430 Van Brunt Street, Brooklyn, NY

Job No: JB94209

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB94209-6	SW846 8081B	14-MAY-15 11:44	RK	14-MAY-15	AC	P8081PESTTCL
JB94209-7 SB4-1	Collected: 07-MAY-15 11:09 By: BD		Received: 07-MAY-15 By: AS			
JB94209-7	SM2540 G-97	08-MAY-15 11:30	KP			%SOL
JB94209-7	SW846 8260C	09-MAY-15 07:10	SJM			V8260TCL20+
JB94209-7	SW846 8082A	11-MAY-15 19:24	DG	10-MAY-15	AQ	P8082PCB11AO
JB94209-7	SW846 8270D	11-MAY-15 23:32	SD	09-MAY-15	FN	AB8270TCL20+
JB94209-7	SW846 6010C	12-MAY-15 00:46	ND	09-MAY-15	MB	AG,AL,AS,BA,BE,CA,CD,CO,CR, CU,FE,K,MG,MN,NA,NI,PB,SB, SE,TL,V,ZN
JB94209-7	SW846 7471B	12-MAY-15 15:41	DP	12-MAY-15	DP	HG
JB94209-7	SW846 8081B	14-MAY-15 11:58	RK	14-MAY-15	AC	P8081PESTTCL
JB94209-8 SB4-2	Collected: 07-MAY-15 11:15 By: BD		Received: 07-MAY-15 By: AS			
JB94209-8	SM2540 G-97	08-MAY-15 11:30	KP			%SOL
JB94209-8	SW846 8260C	09-MAY-15 07:38	SJM			V8260TCL20+
JB94209-8	SW846 8082A	11-MAY-15 19:40	DG	10-MAY-15	AQ	P8082PCB11AO
JB94209-8	SW846 8270D	11-MAY-15 20:23	SD	09-MAY-15	FN	AB8270TCL20+
JB94209-8	SW846 6010C	12-MAY-15 00:52	ND	09-MAY-15	MB	AG,AL,AS,BA,BE,CA,CD,CO,CR, CU,FE,K,MG,MN,NA,NI,PB,SB, SE,TL,V,ZN
JB94209-8	SW846 7471B	12-MAY-15 15:08	DP	12-MAY-15	DP	HG
JB94209-8	SW846 8081B	14-MAY-15 12:13	RK	14-MAY-15	AC	P8081PESTTCL
JB94209-9 SB5-1	Collected: 07-MAY-15 11:46 By: BD		Received: 07-MAY-15 By: AS			
JB94209-9	SM2540 G-97	08-MAY-15 11:30	KP			%SOL
JB94209-9	SW846 8260C	11-MAY-15 15:22	SJM			V8260TCL20+
JB94209-9	SW846 8082A	11-MAY-15 19:57	DG	10-MAY-15	AQ	P8082PCB11AO
JB94209-9	SW846 8270D	11-MAY-15 23:53	SD	09-MAY-15	FN	AB8270TCL20+
JB94209-9	SW846 6010C	12-MAY-15 00:58	ND	09-MAY-15	MB	AG,AL,AS,BA,BE,CA,CD,CO,CR, CU,FE,K,MG,MN,NA,NI,PB,SB, SE,TL,V,ZN
JB94209-9	SW846 7471B	12-MAY-15 15:10	DP	12-MAY-15	DP	HG
JB94209-9	SW846 8081B	14-MAY-15 12:27	RK	14-MAY-15	AC	P8081PESTTCL

Internal Sample Tracking Chronicle

PT Consultants

12090-02 430 Van Brunt Street, Brooklyn, NY

Job No: JB94209

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB94209-10 SB5-2	Collected: 07-MAY-15 11:51 By: BD		Received: 07-MAY-15 By: AS			
JB94209-10	SM2540 G-97	08-MAY-15 11:30	KP			%SOL
JB94209-10	SW846 8260C	09-MAY-15 08:34	SJM			V8260TCL20+
JB94209-10	SW846 8082A	11-MAY-15 20:14	DG	10-MAY-15	AQ	P8082PCB11AO
JB94209-10	SW846 8270D	12-MAY-15 00:14	SD	09-MAY-15	FN	AB8270TCL20+
JB94209-10	SW846 6010C	12-MAY-15 01:03	ND	09-MAY-15	MB	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JB94209-10	SW846 7471B	12-MAY-15 15:11	DP	12-MAY-15	DP	HG
JB94209-10	SW846 8081B	14-MAY-15 12:42	RK	14-MAY-15	AC	P8081PESTTCL
JB94209-11 SB6-1	Collected: 07-MAY-15 13:45 By: BD		Received: 07-MAY-15 By: AS			
JB94209-11	SM2540 G-97	08-MAY-15 11:30	KP			%SOL
JB94209-11	SW846 8260C	09-MAY-15 09:02	SJM			V8260TCL20+
JB94209-11	SW846 8082A	11-MAY-15 20:31	DG	10-MAY-15	AQ	P8082PCB11AO
JB94209-11	SW846 8270D	12-MAY-15 00:35	SD	09-MAY-15	FN	AB8270TCL20+
JB94209-11	SW846 6010C	12-MAY-15 01:09	ND	09-MAY-15	MB	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JB94209-11	SW846 8270D	12-MAY-15 01:17	SD	09-MAY-15	FN	AB8270TCL20+
JB94209-11	SW846 7471B	12-MAY-15 15:13	DP	12-MAY-15	DP	HG
JB94209-11	SW846 8081B	14-MAY-15 12:56	RK	14-MAY-15	AC	P8081PESTTCL
JB94209-12 SB6-2	Collected: 07-MAY-15 13:50 By: BD		Received: 07-MAY-15 By: AS			
JB94209-12	SM2540 G-97	08-MAY-15 11:30	KP			%SOL
JB94209-12	SW846 8260C	10-MAY-15 14:13	PS			V8260TCL20+
JB94209-12	SW846 8270D	11-MAY-15 20:44	SD	09-MAY-15	FN	AB8270TCL20+
JB94209-12	SW846 8082A	11-MAY-15 20:48	DG	10-MAY-15	AQ	P8082PCB11AO
JB94209-12	SW846 6010C	12-MAY-15 01:27	ND	09-MAY-15	MB	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JB94209-12	SW846 7471B	12-MAY-15 15:14	DP	12-MAY-15	DP	HG
JB94209-12	SW846 8081B	14-MAY-15 13:11	RK	14-MAY-15	AC	P8081PESTTCL

Internal Sample Tracking Chronicle

PT Consultants

12090-02 430 Van Brunt Street, Brooklyn, NY

Job No: JB94209

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB94209-13 Collected: 07-MAY-15 10:10 By: BD TW-1			Received: 07-MAY-15 By: AS			
JB94209-13	SW846 8260C	08-MAY-15 18:37	BK			V8260TCL20+
JB94209-13	SW846 8270D	09-MAY-15 18:07	KLS	09-MAY-15	RM	AB8270TCL20+
JB94209-13	SW846 6010C	11-MAY-15 17:14	KK	09-MAY-15	MO	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JB94209-13	SW846 7470A	12-MAY-15 13:51	JW	12-MAY-15	JW	HG
JB94209-13	SW846 8081B	12-MAY-15 18:30	RK	09-MAY-15	RM	P8081PESTTCL
JB94209-13	SW846 8082A	13-MAY-15 14:22	DG	09-MAY-15	RM	P8082PCB11AO
JB94209-14 Collected: 07-MAY-15 11:45 By: BD TW-2			Received: 07-MAY-15 By: AS			
JB94209-14	SW846 8260C	08-MAY-15 19:08	BK			V8260TCL20+
JB94209-14	SW846 8270D	09-MAY-15 18:35	KLS	09-MAY-15	RM	AB8270TCL20+
JB94209-14	SW846 6010C	11-MAY-15 17:17	KK	09-MAY-15	MO	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JB94209-14	SW846 7470A	12-MAY-15 13:53	JW	12-MAY-15	JW	HG
JB94209-14	SW846 8081B	12-MAY-15 19:17	RK	09-MAY-15	RM	P8081PESTTCL
JB94209-14	SW846 8082A	13-MAY-15 02:37	DG	09-MAY-15	RM	P8082PCB11AO
JB94209-15 Collected: 07-MAY-15 12:35 By: BD TW-3			Received: 07-MAY-15 By: AS			
JB94209-15	SW846 8260C	08-MAY-15 19:39	BK			V8260TCL20+
JB94209-15	SW846 8270D	09-MAY-15 19:04	KLS	09-MAY-15	RM	AB8270TCL20+
JB94209-15	SW846 6010C	11-MAY-15 17:25	KK	09-MAY-15	MO	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JB94209-15	SW846 7470A	12-MAY-15 13:54	JW	12-MAY-15	JW	HG
JB94209-15	SW846 8081B	12-MAY-15 19:33	RK	09-MAY-15	RM	P8081PESTTCL
JB94209-15	SW846 8082A	13-MAY-15 02:54	DG	09-MAY-15	RM	P8082PCB11AO
JB94209-16 Collected: 07-MAY-15 13:00 By: BD TW2-DUP			Received: 07-MAY-15 By: AS			

Internal Sample Tracking Chronicle

PT Consultants

12090-02 430 Van Brunt Street, Brooklyn, NY

Job No: JB94209

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB94209-16	SW846 8260C	08-MAY-15 20:09	BK			V8260TCL20+
JB94209-16	SW846 8270D	09-MAY-15 19:32	KLS	09-MAY-15	RM	AB8270TCL20+
JB94209-16	SW846 6010C	11-MAY-15 17:28	KK	09-MAY-15	MO	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JB94209-16	SW846 7470A	12-MAY-15 13:55	JW	12-MAY-15	JW	HG
JB94209-16	SW846 8081B	12-MAY-15 19:49	RK	09-MAY-15	RM	P8081PESTTCL
JB94209-16	SW846 8082A	13-MAY-15 03:11	DG	09-MAY-15	RM	P8082PCB11AO
JB94209-17	Collected: 07-MAY-15 16:10 By: BD		Received: 07-MAY-15 By: AS			
FB						
JB94209-17	SW846 8270D	09-MAY-15 20:01	KLS	09-MAY-15	RM	AB8270TCL20+
JB94209-17	SW846 6010C	11-MAY-15 17:31	KK	09-MAY-15	MO	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JB94209-17	SW846 7470A	12-MAY-15 13:56	JW	12-MAY-15	JW	HG
JB94209-17	SW846 8081B	12-MAY-15 20:05	RK	09-MAY-15	RM	P8081PESTTCL
JB94209-17	SW846 8082A	13-MAY-15 03:28	DG	09-MAY-15	RM	P8082PCB11AO
JB94209-18	Collected: 07-MAY-15 11:57 By: BD		Received: 07-MAY-15 By: AS			
SB5-2 DUP						
JB94209-18	SM2540 G-97	08-MAY-15 11:30	KP			%SOL
JB94209-18	SW846 8270D	11-MAY-15 21:05	SD	09-MAY-15	FN	AB8270TCL20+
JB94209-18	SW846 8082A	11-MAY-15 22:13	DG	10-MAY-15	AQ	P8082PCB11AO
JB94209-18	SW846 6010C	12-MAY-15 01:32	ND	09-MAY-15	MB	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JB94209-18	SW846 8260C	12-MAY-15 03:06	SJM			V8260TCL20+
JB94209-18	SW846 7471B	12-MAY-15 15:16	DP	12-MAY-15	DP	HG
JB94209-18	SW846 8081B	14-MAY-15 13:25	RK	14-MAY-15	AC	P8081PESTTCL

Accutest Internal Chain of Custody

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB94209-1.1	Secured Storage	Todd Shoemaker	05/08/15 09:45	Retrieve from Storage
JB94209-1.1	Todd Shoemaker	Secured Staging Area	05/08/15 09:45	Return to Storage
JB94209-1.1	Secured Staging Area	Kruti Patel	05/08/15 10:16	Retrieve from Storage
JB94209-1.1	Kruti Patel	Secured Storage	05/08/15 11:22	Return to Storage
JB94209-1.1	Secured Storage	Arielle Cocozza	05/09/15 04:30	Retrieve from Storage
JB94209-1.1	Arielle Cocozza	Sauvelson Auguste	05/09/15 07:07	Custody Transfer
JB94209-1.1	Sauvelson Auguste	Secured Storage	05/09/15 09:07	Return to Storage
JB94209-1.1	Secured Storage	Bernadette Vassilatos	05/10/15 06:20	Retrieve from Storage
JB94209-1.1	Bernadette Vassilatos	Secured Staging Area	05/10/15 06:20	Return to Storage
JB94209-1.1	Secured Staging Area	Sora Lynn Mathurin	05/10/15 06:32	Retrieve from Storage
JB94209-1.1	Sora Lynn Mathurin	Secured Staging Area	05/10/15 15:41	Return to Storage
JB94209-1.1	Secured Staging Area	Albert Quayson	05/11/15 09:10	Retrieve from Storage
JB94209-1.1	Albert Quayson	Secured Storage	05/11/15 09:44	Return to Storage
JB94209-1.1	Secured Storage	Arielle Cocozza	05/14/15 04:50	Retrieve from Storage
JB94209-1.1	Arielle Cocozza	Sauvelson Auguste	05/14/15 06:37	Custody Transfer
JB94209-1.1	Sauvelson Auguste	Secured Storage	05/14/15 09:16	Return to Storage
JB94209-1.1.1	Sauvelson Auguste	Organics Prep	05/09/15 07:09	Extract from JB94209-1.1
JB94209-1.1.1	Organics Prep	Finley Nyaata	05/09/15 15:01	Extract from JB94209-1.1
JB94209-1.1.1	Finley Nyaata	Extract Storage	05/09/15 15:01	Return to Storage
JB94209-1.1.1	Extract Storage	Ashley Dye	05/10/15 14:02	Retrieve from Storage
JB94209-1.1.1	Ashley Dye	GCMS2P	05/10/15 14:02	Load on Instrument
JB94209-1.1.1	GCMS2P	Samta Patel	05/15/15 09:41	Unload from Instrument
JB94209-1.1.1	Samta Patel	Extract Freezer	05/15/15 09:41	Return to Storage
JB94209-1.1.2	Sora Lynn Mathurin	Organics Prep	05/10/15 06:33	Extract from JB94209-1.1
JB94209-1.1.2	Organics Prep	Albert Quayson	05/10/15 15:49	Extract from JB94209-1.1
JB94209-1.1.2	Albert Quayson	Extract Storage	05/10/15 15:49	Return to Storage
JB94209-1.1.2	Extract Storage	Yvelande DHaiti	05/13/15 08:42	Retrieve from Storage
JB94209-1.1.2	Yvelande DHaiti	GC4G	05/13/15 08:42	Load on Instrument
JB94209-1.1.2	GC4G	Yvelande DHaiti	05/13/15 15:39	Unload from Instrument
JB94209-1.1.2	Yvelande DHaiti	Extract Freezer	05/13/15 15:39	Return to Storage
JB94209-1.1.3	Sora Lynn Mathurin	Organics Prep	05/10/15 06:36	Extract from JB94209-1.1
JB94209-1.1.3	Organics Prep	Albert Quayson	05/10/15 15:50	Extract from JB94209-1.1
JB94209-1.1.3	Albert Quayson	Extract Storage	05/10/15 15:50	Return to Storage
JB94209-1.1.3	Extract Storage	Dylan Gary	05/11/15 15:54	Retrieve from Storage
JB94209-1.1.3	Dylan Gary	GC2G	05/11/15 15:54	Load on Instrument
JB94209-1.1.3	GC2G	Dylan Gary	05/12/15 12:26	Unload from Instrument
JB94209-1.1.3	Dylan Gary	Extract Freezer	05/12/15 12:26	Return to Storage
JB94209-1.1.4	Arielle Cocozza	Organics Prep	05/14/15 04:51	Extract from JB94209-1.1
JB94209-1.1.4	Organics Prep	Arielle Cocozza	05/14/15 08:59	Extract from JB94209-1.1
JB94209-1.1.4	Arielle Cocozza	Extract Storage	05/14/15 08:59	Return to Storage

Accutest Internal Chain of Custody

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB94209-1.1.4	Extract Storage	Yvelande DHaiti	05/14/15 09:34	Retrieve from Storage
JB94209-1.1.4	Yvelande DHaiti	GC4G	05/14/15 09:34	Load on Instrument
JB94209-1.2	Secured Storage	Scott McGonigal	05/08/15 11:31	Retrieve from Storage
JB94209-1.2	Scott McGonigal	Secured Storage	05/08/15 15:56	Return to Storage
JB94209-1.3	Secured Storage	Edwin Gonzalez	05/09/15 08:15	Retrieve from Storage
JB94209-1.3	Edwin Gonzalez	Secured Staging Area	05/09/15 08:15	Return to Storage
JB94209-1.3	Secured Staging Area	Mikhail Beaton	05/09/15 09:47	Retrieve from Storage
JB94209-1.3	Mikhail Beaton	Secured Storage	05/09/15 13:57	Return to Storage
JB94209-1.3	Secured Storage	Alfredo Crespo	05/12/15 07:27	Retrieve from Storage
JB94209-1.3	Alfredo Crespo	Secured Staging Area	05/12/15 07:27	Return to Storage
JB94209-1.3	Secured Staging Area	Darshananben Patel	05/12/15 08:37	Retrieve from Storage
JB94209-1.3	Darshananben Patel	Secured Storage	05/12/15 12:56	Return to Storage
JB94209-1.3.1	Mikhail Beaton	Metals Digestion	05/09/15 13:56	Digestate from JB94209-1.3
JB94209-1.3.1	Metals Digestion	Mikhail Beaton	05/09/15 13:57	Digestate from JB94209-1.3
JB94209-1.3.1	Mikhail Beaton	Metals Digestate Storage	05/09/15 13:57	Return to Storage
JB94209-1.3.1	Metals Digestate Storage	Nancy Duan	05/11/15 14:47	Retrieve from Storage
JB94209-1.3.1	Nancy Duan	Metals Digestate Storage	05/11/15 14:52	Return to Storage
JB94209-2.1	Secured Storage	Todd Shoemaker	05/08/15 09:45	Retrieve from Storage
JB94209-2.1	Todd Shoemaker	Secured Staging Area	05/08/15 09:45	Return to Storage
JB94209-2.1	Secured Staging Area	Kruti Patel	05/08/15 10:16	Retrieve from Storage
JB94209-2.1	Kruti Patel	Secured Storage	05/08/15 11:22	Return to Storage
JB94209-2.1	Secured Storage	Arielle Cocozza	05/09/15 04:30	Retrieve from Storage
JB94209-2.1	Arielle Cocozza	Sauvelson Auguste	05/09/15 07:07	Custody Transfer
JB94209-2.1	Sauvelson Auguste	Secured Storage	05/09/15 09:07	Return to Storage
JB94209-2.1	Secured Storage	Bernadette Vassilatos	05/10/15 06:20	Retrieve from Storage
JB94209-2.1	Bernadette Vassilatos	Secured Staging Area	05/10/15 06:20	Return to Storage
JB94209-2.1	Secured Staging Area	Sora Lynn Mathurin	05/10/15 06:32	Retrieve from Storage
JB94209-2.1	Sora Lynn Mathurin	Secured Staging Area	05/10/15 15:41	Return to Storage
JB94209-2.1	Secured Staging Area	Albert Quayson	05/11/15 09:10	Retrieve from Storage
JB94209-2.1	Albert Quayson	Secured Storage	05/11/15 09:44	Return to Storage
JB94209-2.1	Secured Storage	Arielle Cocozza	05/14/15 04:50	Retrieve from Storage
JB94209-2.1	Arielle Cocozza	Sauvelson Auguste	05/14/15 06:37	Custody Transfer
JB94209-2.1	Sauvelson Auguste	Secured Storage	05/14/15 09:16	Return to Storage
JB94209-2.1.1	Sauvelson Auguste	Organics Prep	05/09/15 07:09	Extract from JB94209-2.1
JB94209-2.1.1	Organics Prep	Finley Nyaata	05/09/15 15:01	Extract from JB94209-2.1
JB94209-2.1.1	Finley Nyaata	Extract Storage	05/09/15 15:01	Return to Storage
JB94209-2.1.1	Extract Storage	Ashley Dye	05/10/15 14:02	Retrieve from Storage
JB94209-2.1.1	Ashley Dye	GCMS2P	05/10/15 14:02	Load on Instrument
JB94209-2.1.1	GCMS2P	Samta Patel	05/15/15 09:41	Unload from Instrument

Accutest Internal Chain of Custody

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB94209-2.1.1	Samta Patel	Extract Freezer	05/15/15 09:41	Return to Storage
JB94209-2.1.2	Sora Lynn Mathurin	Organics Prep	05/10/15 06:33	Extract from JB94209-2.1
JB94209-2.1.2	Organics Prep	Albert Quayson	05/10/15 15:49	Extract from JB94209-2.1
JB94209-2.1.2	Albert Quayson	Extract Storage	05/10/15 15:49	Return to Storage
JB94209-2.1.2	Extract Storage	Yvelande DHaiti	05/13/15 08:42	Retrieve from Storage
JB94209-2.1.2	Yvelande DHaiti	GC4G	05/13/15 08:42	Load on Instrument
JB94209-2.1.2	GC4G	Yvelande DHaiti	05/13/15 15:39	Unload from Instrument
JB94209-2.1.2	Yvelande DHaiti	Extract Freezer	05/13/15 15:39	Return to Storage
JB94209-2.1.3	Sora Lynn Mathurin	Organics Prep	05/10/15 06:36	Extract from JB94209-2.1
JB94209-2.1.3	Organics Prep	Albert Quayson	05/10/15 15:50	Extract from JB94209-2.1
JB94209-2.1.3	Albert Quayson	Extract Storage	05/10/15 15:50	Return to Storage
JB94209-2.1.3	Extract Storage	Dylan Gary	05/11/15 15:54	Retrieve from Storage
JB94209-2.1.3	Dylan Gary	GC2G	05/11/15 15:54	Load on Instrument
JB94209-2.1.3	GC2G	Dylan Gary	05/12/15 12:26	Unload from Instrument
JB94209-2.1.3	Dylan Gary	Extract Freezer	05/12/15 12:26	Return to Storage
JB94209-2.1.4	Arielle Cocozza	Organics Prep	05/14/15 04:51	Extract from JB94209-2.1
JB94209-2.1.4	Organics Prep	Arielle Cocozza	05/14/15 08:59	Extract from JB94209-2.1
JB94209-2.1.4	Arielle Cocozza	Extract Storage	05/14/15 08:59	Return to Storage
JB94209-2.1.4	Extract Storage	Yvelande DHaiti	05/14/15 09:34	Retrieve from Storage
JB94209-2.1.4	Yvelande DHaiti	GC4G	05/14/15 09:34	Load on Instrument
JB94209-2.2	Secured Storage	Scott McGonigal	05/08/15 11:31	Retrieve from Storage
JB94209-2.2	Scott McGonigal	Secured Storage	05/08/15 15:56	Return to Storage
JB94209-2.3	Secured Storage	Edwin Gonzalez	05/09/15 08:15	Retrieve from Storage
JB94209-2.3	Edwin Gonzalez	Secured Staging Area	05/09/15 08:15	Return to Storage
JB94209-2.3	Secured Staging Area	Mikhail Beaton	05/09/15 09:47	Retrieve from Storage
JB94209-2.3	Mikhail Beaton	Secured Storage	05/09/15 13:57	Return to Storage
JB94209-2.3	Secured Storage	Alfredo Crespo	05/12/15 07:27	Retrieve from Storage
JB94209-2.3	Alfredo Crespo	Secured Staging Area	05/12/15 07:27	Return to Storage
JB94209-2.3	Secured Staging Area	Darshananben Patel	05/12/15 08:37	Retrieve from Storage
JB94209-2.3	Darshananben Patel	Secured Storage	05/12/15 12:56	Return to Storage
JB94209-2.3.1	Mikhail Beaton	Metals Digestion	05/09/15 13:56	Digestate from JB94209-2.3
JB94209-2.3.1	Metals Digestion	Mikhail Beaton	05/09/15 13:57	Digestate from JB94209-2.3
JB94209-2.3.1	Mikhail Beaton	Metals Digestate Storage	05/09/15 13:57	Return to Storage
JB94209-2.3.1	Metals Digestate Storage	Nancy Duan	05/11/15 14:47	Retrieve from Storage
JB94209-2.3.1	Nancy Duan	Metals Digestate Storage	05/11/15 14:52	Return to Storage
JB94209-3.1	Secured Storage	Todd Shoemaker	05/08/15 09:45	Retrieve from Storage
JB94209-3.1	Todd Shoemaker	Secured Staging Area	05/08/15 09:45	Return to Storage

Accutest Internal Chain of Custody

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB94209-3.1	Secured Staging Area	Kruti Patel	05/08/15 10:16	Retrieve from Storage
JB94209-3.1	Kruti Patel	Secured Storage	05/08/15 11:22	Return to Storage
JB94209-3.1	Secured Storage	Arielle Cocozza	05/09/15 04:30	Retrieve from Storage
JB94209-3.1	Arielle Cocozza	Sauvelson Auguste	05/09/15 07:07	Custody Transfer
JB94209-3.1	Sauvelson Auguste	Secured Storage	05/09/15 09:07	Return to Storage
JB94209-3.1	Secured Storage	Bernadette Vassilatos	05/10/15 06:20	Retrieve from Storage
JB94209-3.1	Bernadette Vassilatos	Secured Staging Area	05/10/15 06:20	Return to Storage
JB94209-3.1	Secured Staging Area	Sora Lynn Mathurin	05/10/15 06:32	Retrieve from Storage
JB94209-3.1	Sora Lynn Mathurin	Secured Staging Area	05/10/15 15:41	Return to Storage
JB94209-3.1	Secured Staging Area	Albert Quayson	05/11/15 09:10	Retrieve from Storage
JB94209-3.1	Albert Quayson	Secured Storage	05/11/15 09:44	Return to Storage
JB94209-3.1	Secured Storage	Arielle Cocozza	05/14/15 04:50	Retrieve from Storage
JB94209-3.1	Arielle Cocozza	Sauvelson Auguste	05/14/15 06:37	Custody Transfer
JB94209-3.1	Sauvelson Auguste	Secured Storage	05/14/15 09:16	Return to Storage
JB94209-3.1.1	Sauvelson Auguste	Organics Prep	05/09/15 07:09	Extract from JB94209-3.1
JB94209-3.1.1	Organics Prep	Finley Nyaata	05/09/15 15:01	Extract from JB94209-3.1
JB94209-3.1.1	Finley Nyaata	Extract Storage	05/09/15 15:01	Return to Storage
JB94209-3.1.1	Extract Storage	Ashley Dye	05/10/15 14:02	Retrieve from Storage
JB94209-3.1.1	Ashley Dye	GCMS2P	05/10/15 14:02	Load on Instrument
JB94209-3.1.1	GCMS2P	Samta Patel	05/15/15 09:41	Unload from Instrument
JB94209-3.1.1	Samta Patel	Extract Freezer	05/15/15 09:41	Return to Storage
JB94209-3.1.2	Sora Lynn Mathurin	Organics Prep	05/10/15 06:33	Extract from JB94209-3.1
JB94209-3.1.2	Organics Prep	Albert Quayson	05/10/15 15:49	Extract from JB94209-3.1
JB94209-3.1.2	Albert Quayson	Extract Storage	05/10/15 15:49	Return to Storage
JB94209-3.1.2	Extract Storage	Yvelande DHaiti	05/13/15 08:42	Retrieve from Storage
JB94209-3.1.2	Yvelande DHaiti	GC4G	05/13/15 08:42	Load on Instrument
JB94209-3.1.2	GC4G	Yvelande DHaiti	05/13/15 15:39	Unload from Instrument
JB94209-3.1.2	Yvelande DHaiti	Extract Freezer	05/13/15 15:39	Return to Storage
JB94209-3.1.3	Sora Lynn Mathurin	Organics Prep	05/10/15 06:36	Extract from JB94209-3.1
JB94209-3.1.3	Organics Prep	Albert Quayson	05/10/15 15:50	Extract from JB94209-3.1
JB94209-3.1.3	Albert Quayson	Extract Storage	05/10/15 15:50	Return to Storage
JB94209-3.1.3	Extract Storage	Dylan Gary	05/11/15 15:54	Retrieve from Storage
JB94209-3.1.3	Dylan Gary	GC2G	05/11/15 15:54	Load on Instrument
JB94209-3.1.3	GC2G	Dylan Gary	05/12/15 12:26	Unload from Instrument
JB94209-3.1.3	Dylan Gary	Extract Freezer	05/12/15 12:26	Return to Storage
JB94209-3.1.4	Arielle Cocozza	Organics Prep	05/14/15 04:51	Extract from JB94209-3.1
JB94209-3.1.4	Organics Prep	Arielle Cocozza	05/14/15 08:59	Extract from JB94209-3.1
JB94209-3.1.4	Arielle Cocozza	Extract Storage	05/14/15 08:59	Return to Storage
JB94209-3.1.4	Extract Storage	Yvelande DHaiti	05/14/15 09:34	Retrieve from Storage
JB94209-3.1.4	Yvelande DHaiti	GC4G	05/14/15 09:34	Load on Instrument

Accutest Internal Chain of Custody

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB94209-3.2	Secured Storage	Scott McGonigal	05/08/15 11:31	Retrieve from Storage
JB94209-3.2	Scott McGonigal	Secured Storage	05/08/15 15:56	Return to Storage
JB94209-3.3	Secured Storage	Edwin Gonzalez	05/09/15 08:15	Retrieve from Storage
JB94209-3.3	Edwin Gonzalez	Secured Staging Area	05/09/15 08:15	Return to Storage
JB94209-3.3	Secured Staging Area	Mikhail Beaton	05/09/15 09:47	Retrieve from Storage
JB94209-3.3	Mikhail Beaton	Secured Storage	05/09/15 13:57	Return to Storage
JB94209-3.3	Secured Storage	Alfredo Crespo	05/12/15 07:27	Retrieve from Storage
JB94209-3.3	Alfredo Crespo	Secured Staging Area	05/12/15 07:27	Return to Storage
JB94209-3.3	Secured Staging Area	Darshananben Patel	05/12/15 08:37	Retrieve from Storage
JB94209-3.3	Darshananben Patel	Secured Storage	05/12/15 12:56	Return to Storage
JB94209-3.3.1	Mikhail Beaton	Metals Digestion	05/09/15 13:56	Digestate from JB94209-3.3
JB94209-3.3.1	Metals Digestion	Mikhail Beaton	05/09/15 13:57	Digestate from JB94209-3.3
JB94209-3.3.1	Mikhail Beaton	Metals Digestate Storage	05/09/15 13:57	Return to Storage
JB94209-3.3.1	Metals Digestate Storage	Nancy Duan	05/11/15 14:47	Retrieve from Storage
JB94209-3.3.1	Nancy Duan	Metals Digestate Storage	05/11/15 14:52	Return to Storage
JB94209-4.1	Secured Storage	Todd Shoemaker	05/08/15 09:45	Retrieve from Storage
JB94209-4.1	Todd Shoemaker	Secured Staging Area	05/08/15 09:45	Return to Storage
JB94209-4.1	Secured Staging Area	Kruti Patel	05/08/15 10:16	Retrieve from Storage
JB94209-4.1	Kruti Patel	Secured Storage	05/08/15 11:22	Return to Storage
JB94209-4.1	Secured Storage	Arielle Cocozza	05/09/15 04:30	Retrieve from Storage
JB94209-4.1	Arielle Cocozza	Sauvelson Auguste	05/09/15 07:07	Custody Transfer
JB94209-4.1	Sauvelson Auguste	Secured Storage	05/09/15 09:07	Return to Storage
JB94209-4.1	Secured Storage	Bernadette Vassilatos	05/10/15 06:20	Retrieve from Storage
JB94209-4.1	Bernadette Vassilatos	Secured Staging Area	05/10/15 06:20	Return to Storage
JB94209-4.1	Secured Staging Area	Sora Lynn Mathurin	05/10/15 06:32	Retrieve from Storage
JB94209-4.1	Sora Lynn Mathurin	Secured Staging Area	05/10/15 15:41	Return to Storage
JB94209-4.1	Secured Staging Area	Albert Quayson	05/11/15 09:10	Retrieve from Storage
JB94209-4.1	Albert Quayson	Secured Storage	05/11/15 09:44	Return to Storage
JB94209-4.1	Secured Storage	Arielle Cocozza	05/14/15 04:50	Retrieve from Storage
JB94209-4.1	Arielle Cocozza	Sauvelson Auguste	05/14/15 06:37	Custody Transfer
JB94209-4.1	Sauvelson Auguste	Secured Storage	05/14/15 09:16	Return to Storage
JB94209-4.1.1	Sauvelson Auguste	Organics Prep	05/09/15 07:09	Extract from JB94209-4.1
JB94209-4.1.1	Organics Prep	Finley Nyaata	05/09/15 15:01	Extract from JB94209-4.1
JB94209-4.1.1	Finley Nyaata	Extract Storage	05/09/15 15:01	Return to Storage
JB94209-4.1.1	Extract Storage	Ashley Dye	05/10/15 14:02	Retrieve from Storage
JB94209-4.1.1	Ashley Dye	GCMS2P	05/10/15 14:02	Load on Instrument
JB94209-4.1.1	GCMS2P	Samta Patel	05/15/15 09:41	Unload from Instrument
JB94209-4.1.1	Samta Patel	Extract Freezer	05/15/15 09:41	Return to Storage

Accutest Internal Chain of Custody

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB94209-4.1.2	Sora Lynn Mathurin	Organics Prep	05/10/15 06:33	Extract from JB94209-4.1
JB94209-4.1.2	Organics Prep	Albert Quayson	05/10/15 15:49	Extract from JB94209-4.1
JB94209-4.1.2	Albert Quayson	Extract Storage	05/10/15 15:49	Return to Storage
JB94209-4.1.3	Sora Lynn Mathurin	Organics Prep	05/10/15 06:36	Extract from JB94209-4.1
JB94209-4.1.3	Organics Prep	Albert Quayson	05/10/15 15:50	Extract from JB94209-4.1
JB94209-4.1.3	Albert Quayson	Extract Storage	05/10/15 15:50	Return to Storage
JB94209-4.1.3	Extract Storage	Dylan Gary	05/11/15 15:54	Retrieve from Storage
JB94209-4.1.3	Dylan Gary	GC2G	05/11/15 15:54	Load on Instrument
JB94209-4.1.3	GC2G	Dylan Gary	05/12/15 12:26	Unload from Instrument
JB94209-4.1.3	Dylan Gary	Extract Freezer	05/12/15 12:26	Return to Storage
JB94209-4.1.4	Arielle Cocozza	Organics Prep	05/14/15 04:51	Extract from JB94209-4.1
JB94209-4.1.4	Organics Prep	Arielle Cocozza	05/14/15 08:59	Extract from JB94209-4.1
JB94209-4.1.4	Arielle Cocozza	Extract Storage	05/14/15 08:59	Return to Storage
JB94209-4.1.4	Extract Storage	Yvelande DHaiti	05/14/15 09:34	Retrieve from Storage
JB94209-4.1.4	Yvelande DHaiti	GC4G	05/14/15 09:34	Load on Instrument
JB94209-4.2	Secured Storage	Scott McGonigal	05/08/15 11:31	Retrieve from Storage
JB94209-4.2	Scott McGonigal	Secured Storage	05/08/15 15:56	Return to Storage
JB94209-4.3	Secured Storage	Edwin Gonzalez	05/09/15 08:15	Retrieve from Storage
JB94209-4.3	Edwin Gonzalez	Secured Staging Area	05/09/15 08:15	Return to Storage
JB94209-4.3	Secured Staging Area	Mikhail Beaton	05/09/15 09:47	Retrieve from Storage
JB94209-4.3	Mikhail Beaton	Secured Storage	05/09/15 13:57	Return to Storage
JB94209-4.3	Secured Storage	Alfredo Crespo	05/12/15 07:27	Retrieve from Storage
JB94209-4.3	Alfredo Crespo	Secured Staging Area	05/12/15 07:27	Return to Storage
JB94209-4.3	Secured Staging Area	Darshananben Patel	05/12/15 08:37	Retrieve from Storage
JB94209-4.3	Darshananben Patel	Secured Storage	05/12/15 12:56	Return to Storage
JB94209-4.3.1	Mikhail Beaton	Metals Digestion	05/09/15 13:56	Digestate from JB94209-4.3
JB94209-4.3.1	Metals Digestion	Mikhail Beaton	05/09/15 13:57	Digestate from JB94209-4.3
JB94209-4.3.1	Mikhail Beaton	Metals Digestate Storage	05/09/15 13:57	Return to Storage
JB94209-4.3.1	Metals Digestate Storage	Nancy Duan	05/11/15 14:47	Retrieve from Storage
JB94209-4.3.1	Nancy Duan	Metals Digestate Storage	05/11/15 14:52	Return to Storage
JB94209-5.1	Secured Storage	Todd Shoemaker	05/08/15 09:45	Retrieve from Storage
JB94209-5.1	Todd Shoemaker	Secured Staging Area	05/08/15 09:45	Return to Storage
JB94209-5.1	Secured Staging Area	Kruti Patel	05/08/15 10:16	Retrieve from Storage
JB94209-5.1	Kruti Patel	Secured Storage	05/08/15 11:22	Return to Storage
JB94209-5.1	Secured Storage	Arielle Cocozza	05/09/15 04:30	Retrieve from Storage
JB94209-5.1	Arielle Cocozza	Sauvelson Auguste	05/09/15 07:07	Custody Transfer
JB94209-5.1	Sauvelson Auguste	Secured Storage	05/09/15 09:07	Return to Storage
JB94209-5.1	Secured Storage	Mikhail Beaton	05/09/15 11:00	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB94209-5.1	Mikhail Beaton	Secured Storage	05/09/15 13:57	Return to Storage
JB94209-5.1	Secured Storage	Bernadette Vassilatos	05/10/15 06:20	Retrieve from Storage
JB94209-5.1	Bernadette Vassilatos	Secured Staging Area	05/10/15 06:20	Return to Storage
JB94209-5.1	Secured Staging Area	Sora Lynn Mathurin	05/10/15 06:32	Retrieve from Storage
JB94209-5.1	Sora Lynn Mathurin	Secured Staging Area	05/10/15 15:41	Return to Storage
JB94209-5.1	Secured Staging Area	Albert Quayson	05/11/15 09:10	Retrieve from Storage
JB94209-5.1	Albert Quayson	Secured Storage	05/11/15 09:44	Return to Storage
JB94209-5.1	Secured Storage	Arielle Cocozza	05/14/15 04:50	Retrieve from Storage
JB94209-5.1	Arielle Cocozza	Sauvelson Auguste	05/14/15 06:37	Custody Transfer
JB94209-5.1	Sauvelson Auguste	Secured Storage	05/14/15 09:16	Return to Storage
JB94209-5.1.1	Sauvelson Auguste	Organics Prep	05/09/15 07:09	Extract from JB94209-5.1
JB94209-5.1.1	Organics Prep	Finley Nyaata	05/09/15 15:01	Extract from JB94209-5.1
JB94209-5.1.1	Finley Nyaata	Extract Storage	05/09/15 15:01	Return to Storage
JB94209-5.1.1	Extract Storage	Ashley Dye	05/10/15 14:02	Retrieve from Storage
JB94209-5.1.1	Ashley Dye	GCMS2P	05/10/15 14:02	Load on Instrument
JB94209-5.1.1	GCMS2P	Samta Patel	05/15/15 09:41	Unload from Instrument
JB94209-5.1.1	Samta Patel	Extract Freezer	05/15/15 09:41	Return to Storage
JB94209-5.1.2	Mikhail Beaton	Metals Digestion	05/09/15 13:56	Digestate from JB94209-5.1
JB94209-5.1.2	Metals Digestion	Mikhail Beaton	05/09/15 13:57	Digestate from JB94209-5.1
JB94209-5.1.2	Mikhail Beaton	Metals Digestate Storage	05/09/15 13:57	Return to Storage
JB94209-5.1.2	Metals Digestate Storage	Nancy Duan	05/11/15 14:47	Retrieve from Storage
JB94209-5.1.2	Nancy Duan	Metals Digestate Storage	05/11/15 14:52	Return to Storage
JB94209-5.1.3	Sora Lynn Mathurin	Organics Prep	05/10/15 06:33	Extract from JB94209-5.1
JB94209-5.1.3	Organics Prep	Albert Quayson	05/10/15 15:49	Extract from JB94209-5.1
JB94209-5.1.3	Albert Quayson	Extract Storage	05/10/15 15:49	Return to Storage
JB94209-5.1.4	Sora Lynn Mathurin	Organics Prep	05/10/15 06:36	Extract from JB94209-5.1
JB94209-5.1.4	Organics Prep	Albert Quayson	05/10/15 15:50	Extract from JB94209-5.1
JB94209-5.1.4	Albert Quayson	Extract Storage	05/10/15 15:50	Return to Storage
JB94209-5.1.4	Extract Storage	Dylan Gary	05/11/15 15:54	Retrieve from Storage
JB94209-5.1.4	Dylan Gary	GC2G	05/11/15 15:54	Load on Instrument
JB94209-5.1.4	GC2G	Dylan Gary	05/12/15 12:26	Unload from Instrument
JB94209-5.1.4	Dylan Gary	Extract Freezer	05/12/15 12:26	Return to Storage
JB94209-5.1.5	Arielle Cocozza	Organics Prep	05/14/15 04:51	Extract from JB94209-5.1
JB94209-5.1.5	Organics Prep	Arielle Cocozza	05/14/15 08:59	Extract from JB94209-5.1
JB94209-5.1.5	Arielle Cocozza	Extract Storage	05/14/15 08:59	Return to Storage
JB94209-5.1.5	Extract Storage	Yvelande DHaiti	05/14/15 09:34	Retrieve from Storage
JB94209-5.1.5	Yvelande DHaiti	GC4G	05/14/15 09:34	Load on Instrument
JB94209-5.2	Secured Storage	Scott McGonigal	05/08/15 11:31	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB94209-5.2	Scott McGonigal	Secured Storage	05/08/15 15:56	Return to Storage
JB94209-5.2	Secured Storage	Alfredo Crespo	05/12/15 07:27	Retrieve from Storage
JB94209-5.2	Alfredo Crespo	Secured Staging Area	05/12/15 07:27	Return to Storage
JB94209-5.2	Secured Staging Area	Darshananben Patel	05/12/15 08:37	Retrieve from Storage
JB94209-5.2	Darshananben Patel	Secured Storage	05/12/15 12:56	Return to Storage
JB94209-6.1	Secured Storage	Todd Shoemaker	05/08/15 09:45	Retrieve from Storage
JB94209-6.1	Todd Shoemaker	Secured Staging Area	05/08/15 09:45	Return to Storage
JB94209-6.1	Secured Staging Area	Kruti Patel	05/08/15 10:16	Retrieve from Storage
JB94209-6.1	Kruti Patel	Secured Storage	05/08/15 11:22	Return to Storage
JB94209-6.1	Secured Storage	Arielle Cocozza	05/09/15 04:30	Retrieve from Storage
JB94209-6.1	Arielle Cocozza	Sauvelson Auguste	05/09/15 07:07	Custody Transfer
JB94209-6.1	Sauvelson Auguste	Secured Storage	05/09/15 09:07	Return to Storage
JB94209-6.1	Secured Storage	Mikhail Beaton	05/09/15 11:00	Retrieve from Storage
JB94209-6.1	Mikhail Beaton	Secured Storage	05/09/15 13:57	Return to Storage
JB94209-6.1	Secured Storage	Bernadette Vassilatos	05/10/15 06:20	Retrieve from Storage
JB94209-6.1	Bernadette Vassilatos	Secured Staging Area	05/10/15 06:20	Return to Storage
JB94209-6.1	Secured Staging Area	Sora Lynn Mathurin	05/10/15 06:32	Retrieve from Storage
JB94209-6.1	Sora Lynn Mathurin	Secured Staging Area	05/10/15 15:41	Return to Storage
JB94209-6.1	Secured Staging Area	Albert Quayson	05/11/15 09:10	Retrieve from Storage
JB94209-6.1	Albert Quayson	Secured Storage	05/11/15 09:44	Return to Storage
JB94209-6.1	Secured Storage	Arielle Cocozza	05/14/15 04:50	Retrieve from Storage
JB94209-6.1	Arielle Cocozza	Sauvelson Auguste	05/14/15 06:37	Custody Transfer
JB94209-6.1	Sauvelson Auguste	Secured Storage	05/14/15 09:16	Return to Storage
JB94209-6.1.1	Sauvelson Auguste	Organics Prep	05/09/15 07:09	Extract from JB94209-6.1
JB94209-6.1.1	Organics Prep	Finley Nyaata	05/09/15 15:01	Extract from JB94209-6.1
JB94209-6.1.1	Finley Nyaata	Extract Storage	05/09/15 15:01	Return to Storage
JB94209-6.1.1	Extract Storage	Ashley Dye	05/10/15 14:02	Retrieve from Storage
JB94209-6.1.1	Ashley Dye	GCMS2P	05/10/15 14:02	Load on Instrument
JB94209-6.1.1	GCMS2P	Samta Patel	05/15/15 09:41	Unload from Instrument
JB94209-6.1.1	Samta Patel	Extract Freezer	05/15/15 09:41	Return to Storage
JB94209-6.1.2	Mikhail Beaton	Metals Digestion	05/09/15 13:56	Digestate from JB94209-6.1
JB94209-6.1.2	Metals Digestion	Mikhail Beaton	05/09/15 13:57	Digestate from JB94209-6.1
JB94209-6.1.2	Mikhail Beaton	Metals Digestate Storage	05/09/15 13:57	Return to Storage
JB94209-6.1.2	Metals Digestate Storage	Nancy Duan	05/11/15 14:47	Retrieve from Storage
JB94209-6.1.2	Nancy Duan	Metals Digestate Storage	05/11/15 14:52	Return to Storage
JB94209-6.1.3	Sora Lynn Mathurin	Organics Prep	05/10/15 06:33	Extract from JB94209-6.1
JB94209-6.1.3	Organics Prep	Albert Quayson	05/10/15 15:49	Extract from JB94209-6.1
JB94209-6.1.3	Albert Quayson	Extract Storage	05/10/15 15:49	Return to Storage
JB94209-6.1.4	Sora Lynn Mathurin	Organics Prep	05/10/15 06:36	Extract from JB94209-6.1

Accutest Internal Chain of Custody

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB94209-6.1.4	Organics Prep	Albert Quayson	05/10/15 15:50	Extract from JB94209-6.1
JB94209-6.1.4	Albert Quayson	Extract Storage	05/10/15 15:50	Return to Storage
JB94209-6.1.4	Extract Storage	Dylan Gary	05/11/15 15:54	Retrieve from Storage
JB94209-6.1.4	Dylan Gary	GC2G	05/11/15 15:54	Load on Instrument
JB94209-6.1.4	GC2G	Dylan Gary	05/12/15 12:26	Unload from Instrument
JB94209-6.1.4	Dylan Gary	Extract Freezer	05/12/15 12:26	Return to Storage
JB94209-6.1.5	Arielle Cocozza	Organics Prep	05/14/15 04:51	Extract from JB94209-6.1
JB94209-6.1.5	Organics Prep	Arielle Cocozza	05/14/15 08:59	Extract from JB94209-6.1
JB94209-6.1.5	Arielle Cocozza	Extract Storage	05/14/15 08:59	Return to Storage
JB94209-6.1.5	Extract Storage	Yvelande DHaiti	05/14/15 09:34	Retrieve from Storage
JB94209-6.1.5	Yvelande DHaiti	GC4G	05/14/15 09:34	Load on Instrument
JB94209-6.2	Secured Storage	Scott McGonigal	05/08/15 11:31	Retrieve from Storage
JB94209-6.2	Scott McGonigal	Secured Storage	05/08/15 15:56	Return to Storage
JB94209-6.2	Secured Storage	Alfredo Crespo	05/12/15 07:27	Retrieve from Storage
JB94209-6.2	Alfredo Crespo	Secured Staging Area	05/12/15 07:27	Return to Storage
JB94209-6.2	Secured Staging Area	Darshananben Patel	05/12/15 08:37	Retrieve from Storage
JB94209-6.2	Darshananben Patel	Secured Storage	05/12/15 12:56	Return to Storage
JB94209-7.1	Secured Storage	Todd Shoemaker	05/08/15 09:45	Retrieve from Storage
JB94209-7.1	Todd Shoemaker	Secured Staging Area	05/08/15 09:45	Return to Storage
JB94209-7.1	Secured Staging Area	Kruti Patel	05/08/15 10:16	Retrieve from Storage
JB94209-7.1	Kruti Patel	Secured Storage	05/08/15 11:22	Return to Storage
JB94209-7.1	Secured Storage	Arielle Cocozza	05/09/15 04:30	Retrieve from Storage
JB94209-7.1	Arielle Cocozza	Sauvelson Auguste	05/09/15 07:07	Custody Transfer
JB94209-7.1	Sauvelson Auguste	Secured Storage	05/09/15 09:07	Return to Storage
JB94209-7.1	Secured Storage	Bernadette Vassilatos	05/10/15 06:20	Retrieve from Storage
JB94209-7.1	Bernadette Vassilatos	Secured Staging Area	05/10/15 06:20	Return to Storage
JB94209-7.1	Secured Staging Area	Sora Lynn Mathurin	05/10/15 06:32	Retrieve from Storage
JB94209-7.1	Sora Lynn Mathurin	Secured Staging Area	05/10/15 15:41	Return to Storage
JB94209-7.1	Secured Staging Area	Albert Quayson	05/11/15 09:10	Retrieve from Storage
JB94209-7.1	Albert Quayson	Secured Storage	05/11/15 09:44	Return to Storage
JB94209-7.1	Secured Storage	Arielle Cocozza	05/14/15 04:50	Retrieve from Storage
JB94209-7.1	Arielle Cocozza	Sauvelson Auguste	05/14/15 06:37	Custody Transfer
JB94209-7.1	Sauvelson Auguste	Secured Storage	05/14/15 09:16	Return to Storage
JB94209-7.1.1	Sauvelson Auguste	Organics Prep	05/09/15 07:09	Extract from JB94209-7.1
JB94209-7.1.1	Organics Prep	Finley Nyaata	05/09/15 15:01	Extract from JB94209-7.1
JB94209-7.1.1	Finley Nyaata	Extract Storage	05/09/15 15:01	Return to Storage
JB94209-7.1.1	Extract Storage	Ashley Dye	05/10/15 14:02	Retrieve from Storage
JB94209-7.1.1	Ashley Dye	GCMS2P	05/10/15 14:02	Load on Instrument
JB94209-7.1.1	GCMS2P	Samta Patel	05/15/15 09:41	Unload from Instrument
JB94209-7.1.1	Samta Patel	Extract Freezer	05/15/15 09:41	Return to Storage

Accutest Internal Chain of Custody

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB94209-7.1.2	Sora Lynn Mathurin	Organics Prep	05/10/15 06:33	Extract from JB94209-7.1
JB94209-7.1.2	Organics Prep	Albert Quayson	05/10/15 15:49	Extract from JB94209-7.1
JB94209-7.1.2	Albert Quayson	Extract Storage	05/10/15 15:49	Return to Storage
JB94209-7.1.3	Sora Lynn Mathurin	Organics Prep	05/10/15 06:36	Extract from JB94209-7.1
JB94209-7.1.3	Organics Prep	Albert Quayson	05/10/15 15:50	Extract from JB94209-7.1
JB94209-7.1.3	Albert Quayson	Extract Storage	05/10/15 15:50	Return to Storage
JB94209-7.1.3	Extract Storage	Dylan Gary	05/11/15 15:54	Retrieve from Storage
JB94209-7.1.3	Dylan Gary	GC2G	05/11/15 15:54	Load on Instrument
JB94209-7.1.3	GC2G	Dylan Gary	05/12/15 12:26	Unload from Instrument
JB94209-7.1.3	Dylan Gary	Extract Freezer	05/12/15 12:26	Return to Storage
JB94209-7.1.4	Arielle Cocozza	Organics Prep	05/14/15 04:51	Extract from JB94209-7.1
JB94209-7.1.4	Organics Prep	Arielle Cocozza	05/14/15 08:59	Extract from JB94209-7.1
JB94209-7.1.4	Arielle Cocozza	Extract Storage	05/14/15 08:59	Return to Storage
JB94209-7.1.4	Extract Storage	Yvelande DHaiti	05/14/15 09:34	Retrieve from Storage
JB94209-7.1.4	Yvelande DHaiti	GC4G	05/14/15 09:34	Load on Instrument
JB94209-7.2	Secured Storage	Scott McGonigal	05/08/15 11:31	Retrieve from Storage
JB94209-7.2	Scott McGonigal	Secured Storage	05/08/15 15:56	Return to Storage
JB94209-7.3	Secured Storage	Edwin Gonzalez	05/09/15 08:15	Retrieve from Storage
JB94209-7.3	Edwin Gonzalez	Secured Staging Area	05/09/15 08:15	Return to Storage
JB94209-7.3	Secured Staging Area	Mikhail Beaton	05/09/15 09:47	Retrieve from Storage
JB94209-7.3	Mikhail Beaton	Secured Storage	05/09/15 13:57	Return to Storage
JB94209-7.3	Secured Storage	Alfredo Crespo	05/12/15 07:27	Retrieve from Storage
JB94209-7.3	Alfredo Crespo	Secured Staging Area	05/12/15 07:27	Return to Storage
JB94209-7.3	Secured Staging Area	Darshananben Patel	05/12/15 08:37	Retrieve from Storage
JB94209-7.3	Darshananben Patel	Secured Storage	05/12/15 12:56	Return to Storage
JB94209-7.3.1	Mikhail Beaton	Metals Digestion	05/09/15 13:56	Digestate from JB94209-7.3
JB94209-7.3.1	Metals Digestion	Mikhail Beaton	05/09/15 13:57	Digestate from JB94209-7.3
JB94209-7.3.1	Mikhail Beaton	Metals Digestate Storage	05/09/15 13:57	Return to Storage
JB94209-7.3.1	Metals Digestate Storage	Nancy Duan	05/11/15 14:47	Retrieve from Storage
JB94209-7.3.1	Nancy Duan	Metals Digestate Storage	05/11/15 14:52	Return to Storage
JB94209-8.1	Secured Storage	Todd Shoemaker	05/08/15 09:45	Retrieve from Storage
JB94209-8.1	Todd Shoemaker	Secured Staging Area	05/08/15 09:45	Return to Storage
JB94209-8.1	Secured Staging Area	Kruti Patel	05/08/15 10:16	Retrieve from Storage
JB94209-8.1	Kruti Patel	Secured Storage	05/08/15 11:22	Return to Storage
JB94209-8.1	Secured Storage	Arielle Cocozza	05/09/15 04:30	Retrieve from Storage
JB94209-8.1	Arielle Cocozza	Sauvelson Auguste	05/09/15 07:07	Custody Transfer
JB94209-8.1	Sauvelson Auguste	Secured Storage	05/09/15 09:07	Return to Storage

Accutest Internal Chain of Custody

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB94209-8.1	Secured Storage	Bernadette Vassilatos	05/10/15 06:20	Retrieve from Storage
JB94209-8.1	Bernadette Vassilatos	Secured Staging Area	05/10/15 06:20	Return to Storage
JB94209-8.1	Secured Staging Area	Sora Lynn Mathurin	05/10/15 06:32	Retrieve from Storage
JB94209-8.1	Sora Lynn Mathurin	Secured Staging Area	05/10/15 15:41	Return to Storage
JB94209-8.1	Secured Staging Area	Albert Quayson	05/11/15 09:10	Retrieve from Storage
JB94209-8.1	Albert Quayson	Secured Storage	05/11/15 09:44	Return to Storage
JB94209-8.1	Secured Storage	Arielle Cocozza	05/14/15 04:50	Retrieve from Storage
JB94209-8.1	Arielle Cocozza	Sauvelson Auguste	05/14/15 06:37	Custody Transfer
JB94209-8.1	Sauvelson Auguste	Secured Storage	05/14/15 09:16	Return to Storage
JB94209-8.1.1	Sauvelson Auguste	Organics Prep	05/09/15 07:09	Extract from JB94209-8.1
JB94209-8.1.1	Organics Prep	Finley Nyaata	05/09/15 15:01	Extract from JB94209-8.1
JB94209-8.1.1	Finley Nyaata	Extract Storage	05/09/15 15:01	Return to Storage
JB94209-8.1.1	Extract Storage	Ashley Dye	05/10/15 14:02	Retrieve from Storage
JB94209-8.1.1	Ashley Dye	GCMS2P	05/10/15 14:02	Load on Instrument
JB94209-8.1.1	GCMS2P	Samta Patel	05/15/15 09:41	Unload from Instrument
JB94209-8.1.1	Samta Patel	Extract Freezer	05/15/15 09:41	Return to Storage
JB94209-8.1.2	Sora Lynn Mathurin	Organics Prep	05/10/15 06:33	Extract from JB94209-8.1
JB94209-8.1.2	Organics Prep	Albert Quayson	05/10/15 15:49	Extract from JB94209-8.1
JB94209-8.1.2	Albert Quayson	Extract Storage	05/10/15 15:49	Return to Storage
JB94209-8.1.3	Sora Lynn Mathurin	Organics Prep	05/10/15 06:36	Extract from JB94209-8.1
JB94209-8.1.3	Organics Prep	Albert Quayson	05/10/15 15:50	Extract from JB94209-8.1
JB94209-8.1.3	Albert Quayson	Extract Storage	05/10/15 15:50	Return to Storage
JB94209-8.1.3	Extract Storage	Dylan Gary	05/11/15 15:54	Retrieve from Storage
JB94209-8.1.3	Dylan Gary	GC2G	05/11/15 15:54	Load on Instrument
JB94209-8.1.3	GC2G	Dylan Gary	05/12/15 12:26	Unload from Instrument
JB94209-8.1.3	Dylan Gary	Extract Freezer	05/12/15 12:26	Return to Storage
JB94209-8.1.4	Arielle Cocozza	Organics Prep	05/14/15 04:51	Extract from JB94209-8.1
JB94209-8.1.4	Organics Prep	Arielle Cocozza	05/14/15 08:59	Extract from JB94209-8.1
JB94209-8.1.4	Arielle Cocozza	Extract Storage	05/14/15 08:59	Return to Storage
JB94209-8.1.4	Extract Storage	Yvelande DHaiti	05/14/15 09:34	Retrieve from Storage
JB94209-8.1.4	Yvelande DHaiti	GC4G	05/14/15 09:34	Load on Instrument
JB94209-8.2	Secured Storage	Scott McGonigal	05/08/15 11:31	Retrieve from Storage
JB94209-8.2	Scott McGonigal	Secured Storage	05/08/15 15:56	Return to Storage
JB94209-8.3	Secured Storage	Edwin Gonzalez	05/09/15 08:15	Retrieve from Storage
JB94209-8.3	Edwin Gonzalez	Secured Staging Area	05/09/15 08:15	Return to Storage
JB94209-8.3	Secured Staging Area	Mikhail Beaton	05/09/15 09:47	Retrieve from Storage
JB94209-8.3	Mikhail Beaton	Secured Storage	05/09/15 13:57	Return to Storage
JB94209-8.3	Secured Storage	Alfredo Crespo	05/12/15 07:27	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB94209-8.3	Alfredo Crespo	Secured Staging Area	05/12/15 07:27	Return to Storage
JB94209-8.3	Secured Staging Area	Darshananben Patel	05/12/15 08:37	Retrieve from Storage
JB94209-8.3	Darshananben Patel	Secured Storage	05/12/15 12:56	Return to Storage
JB94209-9.1	Secured Storage	Todd Shoemaker	05/08/15 09:45	Retrieve from Storage
JB94209-9.1	Todd Shoemaker	Secured Staging Area	05/08/15 09:45	Return to Storage
JB94209-9.1	Secured Staging Area	Kruti Patel	05/08/15 10:16	Retrieve from Storage
JB94209-9.1	Kruti Patel	Secured Storage	05/08/15 11:22	Return to Storage
JB94209-9.1	Secured Storage	Arielle Cocozza	05/09/15 04:30	Retrieve from Storage
JB94209-9.1	Arielle Cocozza	Sauvelson Auguste	05/09/15 07:07	Custody Transfer
JB94209-9.1	Sauvelson Auguste	Secured Storage	05/09/15 09:07	Return to Storage
JB94209-9.1	Secured Storage	Bernadette Vassilatos	05/10/15 06:20	Retrieve from Storage
JB94209-9.1	Bernadette Vassilatos	Secured Staging Area	05/10/15 06:20	Return to Storage
JB94209-9.1	Secured Staging Area	Sora Lynn Mathurin	05/10/15 06:32	Retrieve from Storage
JB94209-9.1	Sora Lynn Mathurin	Secured Staging Area	05/10/15 15:41	Return to Storage
JB94209-9.1	Secured Staging Area	Albert Quayson	05/11/15 09:10	Retrieve from Storage
JB94209-9.1	Albert Quayson	Secured Storage	05/11/15 09:44	Return to Storage
JB94209-9.1	Secured Storage	Arielle Cocozza	05/14/15 04:50	Retrieve from Storage
JB94209-9.1	Arielle Cocozza	Sauvelson Auguste	05/14/15 06:37	Custody Transfer
JB94209-9.1	Sauvelson Auguste	Secured Storage	05/14/15 09:16	Return to Storage
JB94209-9.1.1	Sauvelson Auguste	Organics Prep	05/09/15 07:09	Extract from JB94209-9.1
JB94209-9.1.1	Organics Prep	Finley Nyaata	05/09/15 15:01	Extract from JB94209-9.1
JB94209-9.1.1	Finley Nyaata	Extract Storage	05/09/15 15:01	Return to Storage
JB94209-9.1.1	Extract Storage	Ashley Dye	05/10/15 14:02	Retrieve from Storage
JB94209-9.1.1	Ashley Dye	GCMS2P	05/10/15 14:02	Load on Instrument
JB94209-9.1.1	GCMS2P	Samta Patel	05/15/15 09:41	Unload from Instrument
JB94209-9.1.1	Samta Patel	Extract Freezer	05/15/15 09:41	Return to Storage
JB94209-9.1.2	Sora Lynn Mathurin	Organics Prep	05/10/15 06:33	Extract from JB94209-9.1
JB94209-9.1.2	Organics Prep	Albert Quayson	05/10/15 15:49	Extract from JB94209-9.1
JB94209-9.1.2	Albert Quayson	Extract Storage	05/10/15 15:49	Return to Storage
JB94209-9.1.3	Sora Lynn Mathurin	Organics Prep	05/10/15 06:36	Extract from JB94209-9.1
JB94209-9.1.3	Organics Prep	Albert Quayson	05/10/15 15:50	Extract from JB94209-9.1
JB94209-9.1.3	Albert Quayson	Extract Storage	05/10/15 15:50	Return to Storage
JB94209-9.1.3	Extract Storage	Dylan Gary	05/11/15 15:54	Retrieve from Storage
JB94209-9.1.3	Dylan Gary	GC2G	05/11/15 15:54	Load on Instrument
JB94209-9.1.3	GC2G	Dylan Gary	05/12/15 12:26	Unload from Instrument
JB94209-9.1.3	Dylan Gary	Extract Freezer	05/12/15 12:26	Return to Storage
JB94209-9.1.4	Arielle Cocozza	Organics Prep	05/14/15 04:51	Extract from JB94209-9.1
JB94209-9.1.4	Organics Prep	Arielle Cocozza	05/14/15 08:59	Extract from JB94209-9.1
JB94209-9.1.4	Arielle Cocozza	Extract Storage	05/14/15 08:59	Return to Storage

Accutest Internal Chain of Custody

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB94209-9.1.4	Extract Storage	Yvelande DHaiti	05/14/15 09:34	Retrieve from Storage
JB94209-9.1.4	Yvelande DHaiti	GC4G	05/14/15 09:34	Load on Instrument
JB94209-9.2	Secured Storage	Scott McGonigal	05/08/15 11:31	Retrieve from Storage
JB94209-9.2	Scott McGonigal	Secured Storage	05/08/15 15:56	Return to Storage
JB94209-9.3	Secured Storage	Edwin Gonzalez	05/09/15 08:15	Retrieve from Storage
JB94209-9.3	Edwin Gonzalez	Secured Staging Area	05/09/15 08:15	Return to Storage
JB94209-9.3	Secured Staging Area	Mikhail Beaton	05/09/15 09:47	Retrieve from Storage
JB94209-9.3	Mikhail Beaton	Secured Storage	05/09/15 13:57	Return to Storage
JB94209-9.3	Secured Storage	Alfredo Crespo	05/12/15 07:27	Retrieve from Storage
JB94209-9.3	Alfredo Crespo	Secured Staging Area	05/12/15 07:27	Return to Storage
JB94209-9.3	Secured Staging Area	Darshananben Patel	05/12/15 08:37	Retrieve from Storage
JB94209-9.3	Darshananben Patel	Secured Storage	05/12/15 12:56	Return to Storage
JB94209-9.3.1	Mikhail Beaton	Metals Digestion	05/09/15 13:56	Digestate from JB94209-9.3
JB94209-9.3.1	Metals Digestion	Mikhail Beaton	05/09/15 13:57	Digestate from JB94209-9.3
JB94209-9.3.1	Mikhail Beaton	Metals Digestate Storage	05/09/15 13:57	Return to Storage
JB94209-9.3.1	Metals Digestate Storage	Nancy Duan	05/11/15 14:47	Retrieve from Storage
JB94209-9.3.1	Nancy Duan	Metals Digestate Storage	05/11/15 14:52	Return to Storage
JB94209-10.1	Secured Storage	Todd Shoemaker	05/08/15 09:45	Retrieve from Storage
JB94209-10.1	Todd Shoemaker	Secured Staging Area	05/08/15 09:45	Return to Storage
JB94209-10.1	Secured Staging Area	Kruti Patel	05/08/15 10:16	Retrieve from Storage
JB94209-10.1	Kruti Patel	Secured Storage	05/08/15 11:22	Return to Storage
JB94209-10.1	Secured Storage	Scott McGonigal	05/08/15 14:00	Retrieve from Storage
JB94209-10.1	Scott McGonigal	Secured Storage	05/08/15 15:56	Return to Storage
JB94209-10.1	Secured Storage	Arielle Cocozza	05/09/15 04:30	Retrieve from Storage
JB94209-10.1	Arielle Cocozza	Sauvelson Auguste	05/09/15 07:07	Custody Transfer
JB94209-10.1	Sauvelson Auguste	Secured Storage	05/09/15 09:07	Return to Storage
JB94209-10.1	Secured Storage	Bernadette Vassilatos	05/10/15 06:20	Retrieve from Storage
JB94209-10.1	Bernadette Vassilatos	Secured Staging Area	05/10/15 06:20	Return to Storage
JB94209-10.1	Secured Staging Area	Sora Lynn Mathurin	05/10/15 06:32	Retrieve from Storage
JB94209-10.1	Sora Lynn Mathurin	Secured Staging Area	05/10/15 15:41	Return to Storage
JB94209-10.1	Secured Staging Area	Albert Quayson	05/11/15 09:10	Retrieve from Storage
JB94209-10.1	Albert Quayson	Secured Storage	05/11/15 09:44	Return to Storage
JB94209-10.1	Secured Storage	Todd Shoemaker	05/12/15 11:19	Retrieve from Storage
JB94209-10.1	Todd Shoemaker	Francis Pandolfo	05/12/15 11:21	Custody Transfer
JB94209-10.1	Francis Pandolfo	Secured Storage	05/12/15 12:30	Return to Storage
JB94209-10.1	Secured Storage	Arielle Cocozza	05/14/15 04:50	Retrieve from Storage
JB94209-10.1	Arielle Cocozza	Sauvelson Auguste	05/14/15 06:37	Custody Transfer
JB94209-10.1	Sauvelson Auguste	Secured Storage	05/14/15 09:16	Return to Storage
JB94209-10.1.1	Sauvelson Auguste	Organics Prep	05/09/15 07:09	Extract from JB94209-10.1

Accutest Internal Chain of Custody

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB94209-10.1.1	Organics Prep	Finley Nyaata	05/09/15 15:01	Extract from JB94209-10.1
JB94209-10.1.1	Finley Nyaata	Extract Storage	05/09/15 15:01	Return to Storage
JB94209-10.1.1	Extract Storage	Ashley Dye	05/10/15 14:02	Retrieve from Storage
JB94209-10.1.1	Ashley Dye	GCMS2P	05/10/15 14:02	Load on Instrument
JB94209-10.1.1	GCMS2P	Samta Patel	05/15/15 09:41	Unload from Instrument
JB94209-10.1.1	Samta Patel	Extract Freezer	05/15/15 09:41	Return to Storage
JB94209-10.1.2	Sora Lynn Mathurin	Organics Prep	05/10/15 06:33	Extract from JB94209-10.1
JB94209-10.1.2	Organics Prep	Albert Quayson	05/10/15 15:49	Extract from JB94209-10.1
JB94209-10.1.2	Albert Quayson	Extract Storage	05/10/15 15:49	Return to Storage
JB94209-10.1.3	Sora Lynn Mathurin	Organics Prep	05/10/15 06:36	Extract from JB94209-10.1
JB94209-10.1.3	Organics Prep	Albert Quayson	05/10/15 15:50	Extract from JB94209-10.1
JB94209-10.1.3	Albert Quayson	Extract Storage	05/10/15 15:50	Return to Storage
JB94209-10.1.3	Extract Storage	Dylan Gary	05/11/15 15:54	Retrieve from Storage
JB94209-10.1.3	Dylan Gary	GC2G	05/11/15 15:54	Load on Instrument
JB94209-10.1.3	GC2G	Dylan Gary	05/12/15 12:26	Unload from Instrument
JB94209-10.1.3	Dylan Gary	Extract Freezer	05/12/15 12:26	Return to Storage
JB94209-10.1.4	Arielle Cocozza	Organics Prep	05/14/15 04:51	Extract from JB94209-10.1
JB94209-10.1.4	Organics Prep	Arielle Cocozza	05/14/15 08:59	Extract from JB94209-10.1
JB94209-10.1.4	Arielle Cocozza	Extract Storage	05/14/15 08:59	Return to Storage
JB94209-10.1.4	Extract Storage	Yvelande DHaiti	05/14/15 09:34	Retrieve from Storage
JB94209-10.1.4	Yvelande DHaiti	GC4G	05/14/15 09:34	Load on Instrument
JB94209-10.2	Secured Storage	Scott McGonigal	05/08/15 11:31	Retrieve from Storage
JB94209-10.2	Scott McGonigal	Secured Storage	05/08/15 15:56	Return to Storage
JB94209-10.3	Secured Storage	Edwin Gonzalez	05/09/15 08:15	Retrieve from Storage
JB94209-10.3	Edwin Gonzalez	Secured Staging Area	05/09/15 08:15	Return to Storage
JB94209-10.3	Secured Staging Area	Mikhail Beaton	05/09/15 09:47	Retrieve from Storage
JB94209-10.3	Mikhail Beaton	Secured Storage	05/09/15 13:57	Return to Storage
JB94209-10.3	Secured Storage	Alfredo Crespo	05/12/15 07:27	Retrieve from Storage
JB94209-10.3	Alfredo Crespo	Secured Staging Area	05/12/15 07:27	Return to Storage
JB94209-10.3	Secured Staging Area	Darshananben Patel	05/12/15 08:37	Retrieve from Storage
JB94209-10.3	Darshananben Patel	Secured Storage	05/12/15 12:56	Return to Storage
JB94209-10.3.1	Mikhail Beaton	Metals Digestion	05/09/15 13:56	Digestate from JB94209-10.3
JB94209-10.3.1	Metals Digestion	Mikhail Beaton	05/09/15 13:57	Digestate from JB94209-10.3
JB94209-10.3.1	Mikhail Beaton	Metals Digestate Storage	05/09/15 13:57	Return to Storage
JB94209-10.3.1	Metals Digestate Storage	Nancy Duan	05/11/15 14:47	Retrieve from Storage
JB94209-10.3.1	Nancy Duan	Metals Digestate Storage	05/11/15 14:52	Return to Storage
JB94209-11.1	Secured Storage	Todd Shoemaker	05/08/15 09:45	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB94209-11.1	Todd Shoemaker	Secured Staging Area	05/08/15 09:45	Return to Storage
JB94209-11.1	Secured Staging Area	Kruti Patel	05/08/15 10:16	Retrieve from Storage
JB94209-11.1	Kruti Patel	Secured Storage	05/08/15 11:22	Return to Storage
JB94209-11.1	Secured Storage	Scott McGonigal	05/08/15 14:05	Retrieve from Storage
JB94209-11.1	Scott McGonigal	Secured Storage	05/08/15 15:56	Return to Storage
JB94209-11.1	Secured Storage	Arielle Cocozza	05/09/15 04:30	Retrieve from Storage
JB94209-11.1	Arielle Cocozza	Sauvelson Auguste	05/09/15 07:07	Custody Transfer
JB94209-11.1	Sauvelson Auguste	Secured Storage	05/09/15 09:07	Return to Storage
JB94209-11.1	Secured Storage	Mikhail Beaton	05/09/15 11:00	Retrieve from Storage
JB94209-11.1	Mikhail Beaton	Secured Storage	05/09/15 13:57	Return to Storage
JB94209-11.1	Secured Storage	Bernadette Vassilatos	05/10/15 06:20	Retrieve from Storage
JB94209-11.1	Bernadette Vassilatos	Secured Staging Area	05/10/15 06:20	Return to Storage
JB94209-11.1	Secured Staging Area	Sora Lynn Mathurin	05/10/15 06:32	Retrieve from Storage
JB94209-11.1	Sora Lynn Mathurin	Secured Staging Area	05/10/15 15:41	Return to Storage
JB94209-11.1	Secured Staging Area	Albert Quayson	05/11/15 09:10	Retrieve from Storage
JB94209-11.1	Albert Quayson	Secured Storage	05/11/15 09:44	Return to Storage
JB94209-11.1	Secured Storage	Arielle Cocozza	05/14/15 04:50	Retrieve from Storage
JB94209-11.1	Arielle Cocozza	Sauvelson Auguste	05/14/15 06:37	Custody Transfer
JB94209-11.1	Sauvelson Auguste	Secured Storage	05/14/15 09:16	Return to Storage
JB94209-11.1.1	Sauvelson Auguste	Organics Prep	05/09/15 07:09	Extract from JB94209-11.1
JB94209-11.1.1	Organics Prep	Finley Nyaata	05/09/15 15:01	Extract from JB94209-11.1
JB94209-11.1.1	Finley Nyaata	Extract Storage	05/09/15 15:01	Return to Storage
JB94209-11.1.1	Extract Storage	Ashley Dye	05/10/15 14:02	Retrieve from Storage
JB94209-11.1.1	Ashley Dye	GCMS2P	05/10/15 14:02	Load on Instrument
JB94209-11.1.1	GCMS2P	Samta Patel	05/15/15 09:41	Unload from Instrument
JB94209-11.1.1	Samta Patel	Extract Freezer	05/15/15 09:41	Return to Storage
JB94209-11.1.2	Mikhail Beaton	Metals Digestion	05/09/15 13:56	Digestate from JB94209-11.1
JB94209-11.1.2	Metals Digestion	Mikhail Beaton	05/09/15 13:57	Digestate from JB94209-11.1
JB94209-11.1.2	Mikhail Beaton	Metals Digestate Storage	05/09/15 13:57	Return to Storage
JB94209-11.1.2	Metals Digestate Storage	Nancy Duan	05/11/15 14:47	Retrieve from Storage
JB94209-11.1.2	Nancy Duan	Metals Digestate Storage	05/11/15 14:52	Return to Storage
JB94209-11.1.3	Sora Lynn Mathurin	Organics Prep	05/10/15 06:33	Extract from JB94209-11.1
JB94209-11.1.3	Organics Prep	Albert Quayson	05/10/15 15:49	Extract from JB94209-11.1
JB94209-11.1.3	Albert Quayson	Extract Storage	05/10/15 15:49	Return to Storage
JB94209-11.1.4	Sora Lynn Mathurin	Organics Prep	05/10/15 06:36	Extract from JB94209-11.1
JB94209-11.1.4	Organics Prep	Albert Quayson	05/10/15 15:50	Extract from JB94209-11.1
JB94209-11.1.4	Albert Quayson	Extract Storage	05/10/15 15:50	Return to Storage
JB94209-11.1.4	Extract Storage	Dylan Gary	05/11/15 15:54	Retrieve from Storage
JB94209-11.1.4	Dylan Gary	GC2G	05/11/15 15:54	Load on Instrument
JB94209-11.1.4	GC2G	Dylan Gary	05/12/15 12:26	Unload from Instrument

Accutest Internal Chain of Custody

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB94209-11.1.4	Dylan Gary	Extract Freezer	05/12/15 12:26	Return to Storage
JB94209-11.1.5	Arielle Cocozza	Organics Prep	05/14/15 04:51	Extract from JB94209-11.1
JB94209-11.1.5	Organics Prep	Arielle Cocozza	05/14/15 08:59	Extract from JB94209-11.1
JB94209-11.1.5	Arielle Cocozza	Extract Storage	05/14/15 08:59	Return to Storage
JB94209-11.1.5	Extract Storage	Yvelande DHaiti	05/14/15 09:34	Retrieve from Storage
JB94209-11.1.5	Yvelande DHaiti	GC4G	05/14/15 09:34	Load on Instrument
JB94209-11.2	Secured Storage	Alfredo Crespo	05/12/15 07:27	Retrieve from Storage
JB94209-11.2	Alfredo Crespo	Secured Staging Area	05/12/15 07:27	Return to Storage
JB94209-11.2	Secured Staging Area	Darshananben Patel	05/12/15 08:37	Retrieve from Storage
JB94209-11.2	Darshananben Patel	Secured Storage	05/12/15 12:56	Return to Storage
JB94209-12.1	Secured Storage	Todd Shoemaker	05/08/15 09:45	Retrieve from Storage
JB94209-12.1	Todd Shoemaker	Secured Staging Area	05/08/15 09:45	Return to Storage
JB94209-12.1	Secured Staging Area	Kruti Patel	05/08/15 10:16	Retrieve from Storage
JB94209-12.1	Kruti Patel	Secured Storage	05/08/15 11:22	Return to Storage
JB94209-12.1	Secured Storage	Arielle Cocozza	05/09/15 04:30	Retrieve from Storage
JB94209-12.1	Arielle Cocozza	Sauvelson Auguste	05/09/15 07:07	Custody Transfer
JB94209-12.1	Sauvelson Auguste	Secured Storage	05/09/15 09:07	Return to Storage
JB94209-12.1	Secured Storage	Mikhail Beaton	05/09/15 11:00	Retrieve from Storage
JB94209-12.1	Mikhail Beaton	Secured Storage	05/09/15 13:57	Return to Storage
JB94209-12.1	Secured Storage	Bernadette Vassilatos	05/10/15 06:20	Retrieve from Storage
JB94209-12.1	Bernadette Vassilatos	Secured Staging Area	05/10/15 06:20	Return to Storage
JB94209-12.1	Secured Staging Area	Sora Lynn Mathurin	05/10/15 06:32	Retrieve from Storage
JB94209-12.1	Sora Lynn Mathurin	Secured Staging Area	05/10/15 15:41	Return to Storage
JB94209-12.1	Secured Staging Area	Albert Quayson	05/11/15 09:10	Retrieve from Storage
JB94209-12.1	Albert Quayson	Secured Storage	05/11/15 09:44	Return to Storage
JB94209-12.1	Secured Storage	Arielle Cocozza	05/14/15 04:50	Retrieve from Storage
JB94209-12.1	Arielle Cocozza	Sauvelson Auguste	05/14/15 06:37	Custody Transfer
JB94209-12.1	Sauvelson Auguste	Secured Storage	05/14/15 09:16	Return to Storage
JB94209-12.1.1	Sauvelson Auguste	Organics Prep	05/09/15 07:09	Extract from JB94209-12.1
JB94209-12.1.1	Organics Prep	Finley Nyaata	05/09/15 15:01	Extract from JB94209-12.1
JB94209-12.1.1	Finley Nyaata	Extract Storage	05/09/15 15:01	Return to Storage
JB94209-12.1.1	Extract Storage	Ashley Dye	05/10/15 14:02	Retrieve from Storage
JB94209-12.1.1	Ashley Dye	GCMS2P	05/10/15 14:02	Load on Instrument
JB94209-12.1.1	GCMS2P	Samta Patel	05/15/15 09:41	Unload from Instrument
JB94209-12.1.1	Samta Patel	Extract Freezer	05/15/15 09:41	Return to Storage
JB94209-12.1.2	Mikhail Beaton	Metals Digestion	05/09/15 13:56	Digestate from JB94209-12.1
JB94209-12.1.2	Metals Digestion	Mikhail Beaton	05/09/15 13:57	Digestate from JB94209-12.1
JB94209-12.1.2	Mikhail Beaton	Metals Digestate Storage	05/09/15 13:57	Return to Storage
JB94209-12.1.2	Metals Digestate Storage	Nancy Duan	05/11/15 14:47	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB94209-12.1.2	Nancy Duan	Metals Digestate Storage	05/11/15 14:52	Return to Storage
JB94209-12.1.3	Sora Lynn Mathurin	Organics Prep	05/10/15 06:33	Extract from JB94209-12.1
JB94209-12.1.3	Organics Prep	Albert Quayson	05/10/15 15:49	Extract from JB94209-12.1
JB94209-12.1.3	Albert Quayson	Extract Storage	05/10/15 15:49	Return to Storage
JB94209-12.1.4	Sora Lynn Mathurin	Organics Prep	05/10/15 06:36	Extract from JB94209-12.1
JB94209-12.1.4	Organics Prep	Albert Quayson	05/10/15 15:50	Extract from JB94209-12.1
JB94209-12.1.4	Albert Quayson	Extract Storage	05/10/15 15:50	Return to Storage
JB94209-12.1.4	Extract Storage	Dylan Gary	05/11/15 15:54	Retrieve from Storage
JB94209-12.1.4	Dylan Gary	GC2G	05/11/15 15:54	Load on Instrument
JB94209-12.1.4	GC2G	Dylan Gary	05/12/15 12:26	Unload from Instrument
JB94209-12.1.4	Dylan Gary	Extract Freezer	05/12/15 12:26	Return to Storage
JB94209-12.1.5	Arielle Cocozza	Organics Prep	05/14/15 04:51	Extract from JB94209-12.1
JB94209-12.1.5	Organics Prep	Arielle Cocozza	05/14/15 08:59	Extract from JB94209-12.1
JB94209-12.1.5	Arielle Cocozza	Extract Storage	05/14/15 08:59	Return to Storage
JB94209-12.1.5	Extract Storage	Yvelande DHaiti	05/14/15 09:34	Retrieve from Storage
JB94209-12.1.5	Yvelande DHaiti	GC4G	05/14/15 09:34	Load on Instrument
JB94209-12.2	Secured Storage	Scott McGonigal	05/08/15 11:31	Retrieve from Storage
JB94209-12.2	Scott McGonigal	Secured Storage	05/08/15 15:56	Return to Storage
JB94209-12.2	Secured Storage	Prashant Shukla	05/10/15 12:07	Retrieve from Storage
JB94209-12.2	Prashant Shukla	Secured Storage	05/10/15 12:10	Return to Storage
JB94209-12.2	Secured Storage	Alfredo Crespo	05/12/15 07:27	Retrieve from Storage
JB94209-12.2	Alfredo Crespo	Secured Staging Area	05/12/15 07:27	Return to Storage
JB94209-12.2	Secured Staging Area	Darshananben Patel	05/12/15 08:37	Retrieve from Storage
JB94209-12.2	Darshananben Patel	Secured Storage	05/12/15 12:56	Return to Storage
JB94209-13.1	Secured Storage	Raghava Marthi	05/09/15 06:49	Retrieve from Storage
JB94209-13.1	Raghava Marthi		05/09/15 13:53	Depleted
JB94209-13.1.1	Raghava Marthi	Organics Prep	05/09/15 06:54	Extract from JB94209-13.1
JB94209-13.2	Secured Storage	Raghava Marthi	05/09/15 06:49	Retrieve from Storage
JB94209-13.2	Raghava Marthi		05/09/15 13:53	Depleted
JB94209-13.2.1	Raghava Marthi	Organics Prep	05/09/15 06:54	Extract from JB94209-13.2
JB94209-13.2.1	Organics Prep	Kristi Schollenberger	05/09/15 16:31	Extract from JB94209-13.2
JB94209-13.2.1	Kristi Schollenberger	GCMSP	05/09/15 16:31	Load on Instrument
JB94209-13.2.1	GCMSP	Kristi Schollenberger	05/11/15 09:44	Unload from Instrument
JB94209-13.2.1	Kristi Schollenberger	Extract Freezer	05/11/15 09:44	Return to Storage
JB94209-13.3	Secured Storage	Raghava Marthi	05/09/15 06:49	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB94209-13.3	Raghava Marthi		05/09/15 13:53	Depleted
JB94209-13.3.1	Raghava Marthi	Organics Prep	05/09/15 06:59	Extract from JB94209-13.3
JB94209-13.3.1	Organics Prep	Rebecca Krug	05/12/15 15:26	Extract from JB94209-13.3
JB94209-13.3.1	Rebecca Krug	Extract Storage	05/12/15 15:26	Return to Storage
JB94209-13.3.1	Extract Storage	Rebecca Krug	05/12/15 15:27	Retrieve from Storage
JB94209-13.3.1	Rebecca Krug	GC1G	05/12/15 15:27	Load on Instrument
JB94209-13.3.1	GC1G	Rebecca Krug	05/13/15 15:45	Unload from Instrument
JB94209-13.3.1	Rebecca Krug	Extract Freezer	05/13/15 15:45	Return to Storage
JB94209-13.3.2	Raghava Marthi	Organics Prep	05/09/15 07:00	Extract from JB94209-13.3
JB94209-13.3.2	Organics Prep	Dylan Gary	05/12/15 14:52	Extract from JB94209-13.3
JB94209-13.3.2	Dylan Gary	Extract Storage	05/12/15 14:52	Return to Storage
JB94209-13.3.2	Extract Storage	Dylan Gary	05/12/15 14:52	Retrieve from Storage
JB94209-13.3.2	Dylan Gary	GC2G	05/12/15 14:52	Load on Instrument
JB94209-13.3.2	GC2G	Dylan Gary	05/13/15 14:49	Unload from Instrument
JB94209-13.3.2	Dylan Gary	Extract Freezer	05/13/15 14:49	Return to Storage
JB94209-13.4	Secured Storage	Raghava Marthi	05/09/15 06:49	Retrieve from Storage
JB94209-13.4	Raghava Marthi		05/09/15 13:53	Depleted
JB94209-13.4.1	Raghava Marthi	Organics Prep	05/09/15 06:59	Extract from JB94209-13.4
JB94209-13.4.1	Organics Prep	Rebecca Krug	05/12/15 15:26	Extract from JB94209-13.4
JB94209-13.4.1	Rebecca Krug	Extract Storage	05/12/15 15:26	Return to Storage
JB94209-13.4.1	Extract Storage	Rebecca Krug	05/12/15 15:27	Retrieve from Storage
JB94209-13.4.1	Rebecca Krug	GC1G	05/12/15 15:27	Load on Instrument
JB94209-13.4.1	GC1G	Rebecca Krug	05/13/15 15:45	Unload from Instrument
JB94209-13.4.1	Rebecca Krug	Extract Freezer	05/13/15 15:45	Return to Storage
JB94209-13.5	Secured Storage	Edwin Gonzalez	05/09/15 07:31	Retrieve from Storage
JB94209-13.5	Edwin Gonzalez	Secured Staging Area	05/09/15 07:31	Return to Storage
JB94209-13.5	Secured Staging Area	Michael Obasidey	05/09/15 09:51	Retrieve from Storage
JB94209-13.5	Michael Obasidey	Secured Storage	05/09/15 15:27	Return to Storage
JB94209-13.5	Secured Storage	Alfredo Crespo	05/11/15 07:22	Retrieve from Storage
JB94209-13.5	Alfredo Crespo	Secured Staging Area	05/11/15 07:22	Return to Storage
JB94209-13.5	Secured Staging Area	Jieyu Wang	05/11/15 08:33	Retrieve from Storage
JB94209-13.5	Jieyu Wang	Secured Storage	05/11/15 12:26	Return to Storage
JB94209-13.5	Secured Storage	Alfredo Crespo	05/12/15 07:34	Retrieve from Storage
JB94209-13.5	Alfredo Crespo	Secured Staging Area	05/12/15 07:34	Return to Storage
JB94209-13.5	Secured Staging Area	Jieyu Wang	05/12/15 08:45	Retrieve from Storage
JB94209-13.5	Jieyu Wang	Secured Storage	05/12/15 11:29	Return to Storage
JB94209-13.5.1	Michael Obasidey	Metals Digestion	05/09/15 14:10	Digestate from JB94209-13.5
JB94209-13.5.1	Metals Digestion	Michael Obasidey	05/09/15 14:11	Digestate from JB94209-13.5

Accutest Internal Chain of Custody

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB94209-13.5.1	Michael Obasidey	Metals Digestate Storage	05/09/15 14:12	Return to Storage
JB94209-13.5.1	Metals Digestate Storage	Nancy Duan	05/11/15 12:49	Retrieve from Storage
JB94209-13.5.1	Nancy Duan	Metals Digestate Storage	05/11/15 12:50	Return to Storage
JB94209-13.5.1	Metals Digestate Storage	Kyle Kroeze	05/11/15 17:14	Retrieve from Storage
JB94209-13.5.1	Kyle Kroeze	Metals Digestate Storage	05/11/15 17:15	Return to Storage
JB94209-13.5.1	Metals Digestate Storage	Kyle Kroeze	05/12/15 15:51	Retrieve from Storage
JB94209-13.5.1	Kyle Kroeze	Metals Digestate Storage	05/12/15 15:52	Return to Storage
JB94209-13.8	Secured Storage	Nicole Horvath	05/08/15 11:31	Retrieve from Storage
JB94209-13.8	Nicole Horvath	GCMSU	05/08/15 11:31	Load on Instrument
JB94209-13.8	GCMSU	Shannon Tilly	05/08/15 15:07	Unload from Instrument
JB94209-13.8	Shannon Tilly	GCMS2D	05/08/15 15:07	Load on Instrument
JB94209-13.8	GCMS2D	Bridget Kelly	05/11/15 09:36	Unload from Instrument
JB94209-13.8	Bridget Kelly	Secured Storage	05/11/15 09:36	Return to Storage
JB94209-13F.6	Secured Storage	Dwayne Johnson	05/08/15 08:24	Retrieve from Storage
JB94209-13F.6	Dwayne Johnson	Secured Staging Area	05/08/15 08:24	Return to Storage
JB94209-13F.6	Secured Staging Area	Francis Pandolfo	05/08/15 08:30	Retrieve from Storage
JB94209-13F.6	Francis Pandolfo	Secured Storage	05/08/15 16:59	Return to Storage
JB94209-13F.6	Secured Storage	Edwin Gonzalez	05/09/15 09:01	Retrieve from Storage
JB94209-13F.6	Edwin Gonzalez	Secured Staging Area	05/09/15 09:02	Return to Storage
JB94209-13F.6	Secured Staging Area	Masooda Sultani	05/09/15 09:02	Retrieve from Storage
JB94209-13F.6	Masooda Sultani	Secured Storage	05/09/15 11:45	Return to Storage
JB94209-14.2	Secured Storage	Raghava Marthi	05/09/15 06:49	Retrieve from Storage
JB94209-14.2	Raghava Marthi		05/09/15 13:53	Depleted
JB94209-14.2.1	Raghava Marthi	Organics Prep	05/09/15 06:54	Extract from JB94209-14.2
JB94209-14.2.1	Organics Prep	Kristi Schollenberger	05/09/15 16:31	Extract from JB94209-14.2
JB94209-14.2.1	Kristi Schollenberger	GCMSP	05/09/15 16:31	Load on Instrument
JB94209-14.2.1	GCMSP	Kristi Schollenberger	05/11/15 09:44	Unload from Instrument
JB94209-14.2.1	Kristi Schollenberger	Extract Freezer	05/11/15 09:44	Return to Storage
JB94209-14.3	Secured Storage	Raghava Marthi	05/09/15 06:49	Retrieve from Storage
JB94209-14.3	Raghava Marthi		05/09/15 13:53	Depleted
JB94209-14.3.1	Raghava Marthi	Organics Prep	05/09/15 06:59	Extract from JB94209-14.3
JB94209-14.3.1	Organics Prep	Rebecca Krug	05/12/15 15:26	Extract from JB94209-14.3
JB94209-14.3.1	Rebecca Krug	Extract Storage	05/12/15 15:26	Return to Storage
JB94209-14.3.1	Extract Storage	Rebecca Krug	05/12/15 15:27	Retrieve from Storage
JB94209-14.3.1	Rebecca Krug	GC1G	05/12/15 15:27	Load on Instrument
JB94209-14.3.1	GC1G	Rebecca Krug	05/13/15 15:45	Unload from Instrument
JB94209-14.3.1	Rebecca Krug	Extract Freezer	05/13/15 15:45	Return to Storage

Accutest Internal Chain of Custody

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB94209-14.3.2	Raghava Marthi	Organics Prep	05/09/15 07:00	Extract from JB94209-14.3
JB94209-14.3.2	Organics Prep	Dylan Gary	05/12/15 14:52	Extract from JB94209-14.3
JB94209-14.3.2	Dylan Gary	Extract Storage	05/12/15 14:52	Return to Storage
JB94209-14.3.2	Extract Storage	Dylan Gary	05/12/15 14:52	Retrieve from Storage
JB94209-14.3.2	Dylan Gary	GC2G	05/12/15 14:52	Load on Instrument
JB94209-14.3.2	GC2G	Dylan Gary	05/13/15 14:49	Unload from Instrument
JB94209-14.3.2	Dylan Gary	Extract Freezer	05/13/15 14:49	Return to Storage
JB94209-14.5	Secured Storage	Edwin Gonzalez	05/09/15 07:31	Retrieve from Storage
JB94209-14.5	Edwin Gonzalez	Secured Staging Area	05/09/15 07:31	Return to Storage
JB94209-14.5	Secured Staging Area	Michael Obasidey	05/09/15 09:51	Retrieve from Storage
JB94209-14.5	Michael Obasidey	Secured Storage	05/09/15 15:27	Return to Storage
JB94209-14.5	Secured Storage	Alfredo Crespo	05/11/15 07:22	Retrieve from Storage
JB94209-14.5	Alfredo Crespo	Secured Staging Area	05/11/15 07:22	Return to Storage
JB94209-14.5	Secured Staging Area	Jieyu Wang	05/11/15 08:33	Retrieve from Storage
JB94209-14.5	Jieyu Wang	Secured Storage	05/11/15 12:26	Return to Storage
JB94209-14.5	Secured Storage	Alfredo Crespo	05/12/15 07:34	Retrieve from Storage
JB94209-14.5	Alfredo Crespo	Secured Staging Area	05/12/15 07:34	Return to Storage
JB94209-14.5	Secured Staging Area	Jieyu Wang	05/12/15 08:45	Retrieve from Storage
JB94209-14.5	Jieyu Wang	Secured Storage	05/12/15 11:29	Return to Storage
JB94209-14.5.1	Michael Obasidey	Metals Digestion	05/09/15 14:10	Digestate from JB94209-14.5
JB94209-14.5.1	Metals Digestion	Michael Obasidey	05/09/15 14:11	Digestate from JB94209-14.5
JB94209-14.5.1	Michael Obasidey	Metals Digestate Storage	05/09/15 14:12	Return to Storage
JB94209-14.5.1	Metals Digestate Storage	Nancy Duan	05/11/15 12:49	Retrieve from Storage
JB94209-14.5.1	Nancy Duan	Metals Digestate Storage	05/11/15 12:50	Return to Storage
JB94209-14.5.1	Metals Digestate Storage	Kyle Kroeze	05/11/15 17:14	Retrieve from Storage
JB94209-14.5.1	Kyle Kroeze	Metals Digestate Storage	05/11/15 17:15	Return to Storage
JB94209-14.5.1	Metals Digestate Storage	Kyle Kroeze	05/12/15 15:51	Retrieve from Storage
JB94209-14.5.1	Kyle Kroeze	Metals Digestate Storage	05/12/15 15:52	Return to Storage
JB94209-14.7	Secured Storage	Nicole Horvath	05/08/15 11:32	Retrieve from Storage
JB94209-14.7	Nicole Horvath	GCMSU	05/08/15 11:32	Load on Instrument
JB94209-14.7	GCMSU	Shannon Tilly	05/08/15 15:07	Unload from Instrument
JB94209-14.7	Shannon Tilly	GCMS2D	05/08/15 15:07	Load on Instrument
JB94209-14.7	GCMS2D	Bridget Kelly	05/11/15 09:36	Unload from Instrument
JB94209-14.7	Bridget Kelly	Secured Storage	05/11/15 09:36	Return to Storage
JB94209-14F.6	Secured Storage	Dwayne Johnson	05/08/15 08:24	Retrieve from Storage
JB94209-14F.6	Dwayne Johnson	Secured Staging Area	05/08/15 08:24	Return to Storage
JB94209-14F.6	Secured Staging Area	Francis Pandolfo	05/08/15 08:30	Retrieve from Storage
JB94209-14F.6	Francis Pandolfo	Secured Storage	05/08/15 16:59	Return to Storage
JB94209-14F.6	Secured Storage	Edwin Gonzalez	05/09/15 09:01	Retrieve from Storage
JB94209-14F.6	Edwin Gonzalez	Secured Staging Area	05/09/15 09:02	Return to Storage

Accutest Internal Chain of Custody

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB94209-14F.6	Secured Staging Area	Masooda Sultani	05/09/15 09:02	Retrieve from Storage
JB94209-14F.6	Masooda Sultani	Secured Storage	05/09/15 11:45	Return to Storage
JB94209-15.2	Secured Storage	Raghava Marthi	05/09/15 06:49	Retrieve from Storage
JB94209-15.2	Raghava Marthi		05/09/15 13:53	Depleted
JB94209-15.2.1	Raghava Marthi	Organics Prep	05/09/15 06:54	Extract from JB94209-15.2
JB94209-15.2.1	Organics Prep	Kristi Schollenberger	05/09/15 16:31	Extract from JB94209-15.2
JB94209-15.2.1	Kristi Schollenberger	GCMSP	05/09/15 16:31	Load on Instrument
JB94209-15.2.1	GCMSP	Kristi Schollenberger	05/11/15 09:44	Unload from Instrument
JB94209-15.2.1	Kristi Schollenberger	Extract Freezer	05/11/15 09:44	Return to Storage
JB94209-15.4	Secured Storage	Raghava Marthi	05/09/15 06:49	Retrieve from Storage
JB94209-15.4	Raghava Marthi		05/09/15 13:53	Depleted
JB94209-15.4.1	Raghava Marthi	Organics Prep	05/09/15 06:59	Extract from JB94209-15.4
JB94209-15.4.1	Organics Prep	Rebecca Krug	05/12/15 15:26	Extract from JB94209-15.4
JB94209-15.4.1	Rebecca Krug	Extract Storage	05/12/15 15:26	Return to Storage
JB94209-15.4.1	Extract Storage	Rebecca Krug	05/12/15 15:27	Retrieve from Storage
JB94209-15.4.1	Rebecca Krug	GC1G	05/12/15 15:27	Load on Instrument
JB94209-15.4.1	GC1G	Rebecca Krug	05/13/15 15:45	Unload from Instrument
JB94209-15.4.1	Rebecca Krug	Extract Freezer	05/13/15 15:45	Return to Storage
JB94209-15.4.2	Raghava Marthi	Organics Prep	05/09/15 07:00	Extract from JB94209-15.4
JB94209-15.4.2	Organics Prep	Dylan Gary	05/12/15 14:52	Extract from JB94209-15.4
JB94209-15.4.2	Dylan Gary	Extract Storage	05/12/15 14:52	Return to Storage
JB94209-15.4.2	Extract Storage	Dylan Gary	05/12/15 14:52	Retrieve from Storage
JB94209-15.4.2	Dylan Gary	GC2G	05/12/15 14:52	Load on Instrument
JB94209-15.4.2	GC2G	Dylan Gary	05/13/15 14:49	Unload from Instrument
JB94209-15.4.2	Dylan Gary	Extract Freezer	05/13/15 14:49	Return to Storage
JB94209-15.5	Secured Storage	Edwin Gonzalez	05/09/15 07:31	Retrieve from Storage
JB94209-15.5	Edwin Gonzalez	Secured Staging Area	05/09/15 07:31	Return to Storage
JB94209-15.5	Secured Staging Area	Michael Obasidey	05/09/15 09:51	Retrieve from Storage
JB94209-15.5	Michael Obasidey	Secured Storage	05/09/15 15:27	Return to Storage
JB94209-15.5	Secured Storage	Alfredo Crespo	05/11/15 07:22	Retrieve from Storage
JB94209-15.5	Alfredo Crespo	Secured Staging Area	05/11/15 07:22	Return to Storage
JB94209-15.5	Secured Staging Area	Jieyu Wang	05/11/15 08:33	Retrieve from Storage
JB94209-15.5	Jieyu Wang	Secured Storage	05/11/15 12:26	Return to Storage
JB94209-15.5	Secured Storage	Alfredo Crespo	05/12/15 07:34	Retrieve from Storage
JB94209-15.5	Alfredo Crespo	Secured Staging Area	05/12/15 07:34	Return to Storage
JB94209-15.5	Secured Staging Area	Jieyu Wang	05/12/15 08:45	Retrieve from Storage
JB94209-15.5	Jieyu Wang	Secured Storage	05/12/15 11:29	Return to Storage

Accutest Internal Chain of Custody

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB94209-15.5.1	Michael Obasidey	Metals Digestion	05/09/15 14:10	Digestate from JB94209-15.5
JB94209-15.5.1	Metals Digestion	Michael Obasidey	05/09/15 14:11	Digestate from JB94209-15.5
JB94209-15.5.1	Michael Obasidey	Metals Digestate Storage	05/09/15 14:12	Return to Storage
JB94209-15.5.1	Metals Digestate Storage	Nancy Duan	05/11/15 12:49	Retrieve from Storage
JB94209-15.5.1	Nancy Duan	Metals Digestate Storage	05/11/15 12:50	Return to Storage
JB94209-15.5.1	Metals Digestate Storage	Kyle Kroeze	05/11/15 17:14	Retrieve from Storage
JB94209-15.5.1	Kyle Kroeze	Metals Digestate Storage	05/11/15 17:15	Return to Storage
JB94209-15.5.1	Metals Digestate Storage	Kyle Kroeze	05/12/15 15:51	Retrieve from Storage
JB94209-15.5.1	Kyle Kroeze	Metals Digestate Storage	05/12/15 15:52	Return to Storage
JB94209-15.8	Secured Storage	Nicole Horvath	05/08/15 11:31	Retrieve from Storage
JB94209-15.8	Nicole Horvath	GCMSU	05/08/15 11:31	Load on Instrument
JB94209-15.8	GCMSU	Shannon Tilly	05/08/15 15:07	Unload from Instrument
JB94209-15.8	Shannon Tilly	GCMS2D	05/08/15 15:07	Load on Instrument
JB94209-15.8	GCMS2D	Bridget Kelly	05/11/15 09:36	Unload from Instrument
JB94209-15.8	Bridget Kelly	Secured Storage	05/11/15 09:36	Return to Storage
JB94209-15F.6	Secured Storage	Dwayne Johnson	05/08/15 08:24	Retrieve from Storage
JB94209-15F.6	Dwayne Johnson	Secured Staging Area	05/08/15 08:24	Return to Storage
JB94209-15F.6	Secured Staging Area	Francis Pandolfo	05/08/15 08:30	Retrieve from Storage
JB94209-15F.6	Francis Pandolfo	Secured Storage	05/08/15 16:59	Return to Storage
JB94209-16.2	Secured Storage	Raghava Marthi	05/09/15 06:49	Retrieve from Storage
JB94209-16.2	Raghava Marthi		05/09/15 13:53	Depleted
JB94209-16.2.1	Raghava Marthi	Organics Prep	05/09/15 06:54	Extract from JB94209-16.2
JB94209-16.2.1	Organics Prep	Kristi Schollenberger	05/09/15 16:31	Extract from JB94209-16.2
JB94209-16.2.1	Kristi Schollenberger	GCMSP	05/09/15 16:31	Load on Instrument
JB94209-16.2.1	GCMSP	Kristi Schollenberger	05/11/15 09:44	Unload from Instrument
JB94209-16.2.1	Kristi Schollenberger	Extract Freezer	05/11/15 09:44	Return to Storage
JB94209-16.3	Secured Storage	Raghava Marthi	05/09/15 06:49	Retrieve from Storage
JB94209-16.3	Raghava Marthi		05/09/15 13:53	Depleted
JB94209-16.3.1	Raghava Marthi	Organics Prep	05/09/15 06:59	Extract from JB94209-16.3
JB94209-16.3.1	Organics Prep	Rebecca Krug	05/12/15 15:26	Extract from JB94209-16.3
JB94209-16.3.1	Rebecca Krug	Extract Storage	05/12/15 15:26	Return to Storage
JB94209-16.3.1	Extract Storage	Rebecca Krug	05/12/15 15:27	Retrieve from Storage
JB94209-16.3.1	Rebecca Krug	GC1G	05/12/15 15:27	Load on Instrument
JB94209-16.3.1	GC1G	Rebecca Krug	05/13/15 15:45	Unload from Instrument
JB94209-16.3.1	Rebecca Krug	Extract Freezer	05/13/15 15:45	Return to Storage
JB94209-16.3.2	Raghava Marthi	Organics Prep	05/09/15 07:00	Extract from JB94209-16.3
JB94209-16.3.2	Organics Prep	Dylan Gary	05/12/15 14:52	Extract from JB94209-16.3

Accutest Internal Chain of Custody

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB94209-16.3.2	Dylan Gary	Extract Storage	05/12/15 14:52	Return to Storage
JB94209-16.3.2	Extract Storage	Dylan Gary	05/12/15 14:52	Retrieve from Storage
JB94209-16.3.2	Dylan Gary	GC2G	05/12/15 14:52	Load on Instrument
JB94209-16.3.2	GC2G	Dylan Gary	05/13/15 14:49	Unload from Instrument
JB94209-16.3.2	Dylan Gary	Extract Freezer	05/13/15 14:49	Return to Storage
JB94209-16.5	Secured Storage	Edwin Gonzalez	05/09/15 07:31	Retrieve from Storage
JB94209-16.5	Edwin Gonzalez	Secured Staging Area	05/09/15 07:31	Return to Storage
JB94209-16.5	Secured Staging Area	Michael Obasidey	05/09/15 09:51	Retrieve from Storage
JB94209-16.5	Michael Obasidey	Secured Storage	05/09/15 15:27	Return to Storage
JB94209-16.5	Secured Storage	Alfredo Crespo	05/11/15 07:22	Retrieve from Storage
JB94209-16.5	Alfredo Crespo	Secured Staging Area	05/11/15 07:22	Return to Storage
JB94209-16.5	Secured Staging Area	Jieyu Wang	05/11/15 08:33	Retrieve from Storage
JB94209-16.5	Jieyu Wang	Secured Storage	05/11/15 12:26	Return to Storage
JB94209-16.5	Secured Storage	Alfredo Crespo	05/12/15 07:34	Retrieve from Storage
JB94209-16.5	Alfredo Crespo	Secured Staging Area	05/12/15 07:34	Return to Storage
JB94209-16.5	Secured Staging Area	Jieyu Wang	05/12/15 08:45	Retrieve from Storage
JB94209-16.5	Jieyu Wang	Secured Storage	05/12/15 11:29	Return to Storage
JB94209-16.5.1	Michael Obasidey	Metals Digestion	05/09/15 14:10	Digestate from JB94209-16.5
JB94209-16.5.1	Metals Digestion	Michael Obasidey	05/09/15 14:11	Digestate from JB94209-16.5
JB94209-16.5.1	Michael Obasidey	Metals Digestate Storage	05/09/15 14:12	Return to Storage
JB94209-16.5.1	Metals Digestate Storage	Nancy Duan	05/11/15 12:49	Retrieve from Storage
JB94209-16.5.1	Nancy Duan	Metals Digestate Storage	05/11/15 12:50	Return to Storage
JB94209-16.5.1	Metals Digestate Storage	Kyle Kroeze	05/11/15 17:14	Retrieve from Storage
JB94209-16.5.1	Kyle Kroeze	Metals Digestate Storage	05/11/15 17:15	Return to Storage
JB94209-16.5.1	Metals Digestate Storage	Kyle Kroeze	05/12/15 15:51	Retrieve from Storage
JB94209-16.5.1	Kyle Kroeze	Metals Digestate Storage	05/12/15 15:52	Return to Storage
JB94209-16.7	Secured Storage	Nicole Horvath	05/08/15 11:31	Retrieve from Storage
JB94209-16.7	Nicole Horvath	GCMSU	05/08/15 11:31	Load on Instrument
JB94209-16.7	GCMSU	Shannon Tilly	05/08/15 15:07	Unload from Instrument
JB94209-16.7	Shannon Tilly	GCMS2D	05/08/15 15:07	Load on Instrument
JB94209-16.7	GCMS2D	Bridget Kelly	05/11/15 09:36	Unload from Instrument
JB94209-16.7	Bridget Kelly	Secured Storage	05/11/15 09:36	Return to Storage
JB94209-16F.6	Secured Storage	Dwayne Johnson	05/08/15 08:24	Retrieve from Storage
JB94209-16F.6	Dwayne Johnson	Secured Staging Area	05/08/15 08:24	Return to Storage
JB94209-16F.6	Secured Staging Area	Francis Pandolfo	05/08/15 08:30	Retrieve from Storage
JB94209-16F.6	Francis Pandolfo	Secured Storage	05/08/15 16:59	Return to Storage
JB94209-17.1	Secured Storage	Raghava Marthi	05/09/15 06:49	Retrieve from Storage
JB94209-17.1	Raghava Marthi		05/09/15 13:53	Depleted

Accutest Internal Chain of Custody

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB94209-17.1.1	Raghava Marthi	Organics Prep	05/09/15 06:54	Extract from JB94209-17.1
JB94209-17.1.1	Organics Prep	Kristi Schollenberger	05/09/15 16:31	Extract from JB94209-17.1
JB94209-17.1.1	Kristi Schollenberger	GCMSP	05/09/15 16:31	Load on Instrument
JB94209-17.1.1	GCMSP	Kristi Schollenberger	05/11/15 09:44	Unload from Instrument
JB94209-17.1.1	Kristi Schollenberger	Extract Freezer	05/11/15 09:44	Return to Storage
JB94209-17.4	Secured Storage	Raghava Marthi	05/09/15 06:49	Retrieve from Storage
JB94209-17.4	Raghava Marthi		05/09/15 13:53	Depleted
JB94209-17.4.1	Raghava Marthi	Organics Prep	05/09/15 06:59	Extract from JB94209-17.4
JB94209-17.4.1	Organics Prep	Rebecca Krug	05/12/15 15:26	Extract from JB94209-17.4
JB94209-17.4.1	Rebecca Krug	Extract Storage	05/12/15 15:26	Return to Storage
JB94209-17.4.1	Extract Storage	Rebecca Krug	05/12/15 15:27	Retrieve from Storage
JB94209-17.4.1	Rebecca Krug	GC1G	05/12/15 15:27	Load on Instrument
JB94209-17.4.1	GC1G	Rebecca Krug	05/13/15 15:45	Unload from Instrument
JB94209-17.4.1	Rebecca Krug	Extract Freezer	05/13/15 15:45	Return to Storage
JB94209-17.4.2	Raghava Marthi	Organics Prep	05/09/15 07:00	Extract from JB94209-17.4
JB94209-17.4.2	Organics Prep	Dylan Gary	05/12/15 14:52	Extract from JB94209-17.4
JB94209-17.4.2	Dylan Gary	Extract Storage	05/12/15 14:52	Return to Storage
JB94209-17.4.2	Extract Storage	Dylan Gary	05/12/15 14:52	Retrieve from Storage
JB94209-17.4.2	Dylan Gary	GC2G	05/12/15 14:52	Load on Instrument
JB94209-17.4.2	GC2G	Dylan Gary	05/13/15 14:49	Unload from Instrument
JB94209-17.4.2	Dylan Gary	Extract Freezer	05/13/15 14:49	Return to Storage
JB94209-17.5	Secured Storage	Edwin Gonzalez	05/09/15 07:31	Retrieve from Storage
JB94209-17.5	Edwin Gonzalez	Secured Staging Area	05/09/15 07:31	Return to Storage
JB94209-17.5	Secured Staging Area	Michael Obasidey	05/09/15 09:51	Retrieve from Storage
JB94209-17.5	Michael Obasidey	Secured Storage	05/09/15 15:27	Return to Storage
JB94209-17.5	Secured Storage	Alfredo Crespo	05/11/15 07:22	Retrieve from Storage
JB94209-17.5	Alfredo Crespo	Secured Staging Area	05/11/15 07:22	Return to Storage
JB94209-17.5	Secured Staging Area	Jieyu Wang	05/11/15 08:33	Retrieve from Storage
JB94209-17.5	Jieyu Wang	Secured Storage	05/11/15 12:26	Return to Storage
JB94209-17.5	Secured Storage	Alfredo Crespo	05/12/15 07:34	Retrieve from Storage
JB94209-17.5	Alfredo Crespo	Secured Staging Area	05/12/15 07:34	Return to Storage
JB94209-17.5	Secured Staging Area	Jieyu Wang	05/12/15 08:45	Retrieve from Storage
JB94209-17.5	Jieyu Wang	Secured Storage	05/12/15 11:29	Return to Storage
JB94209-17.5.1	Michael Obasidey	Metals Digestion	05/09/15 14:10	Digestate from JB94209-17.5
JB94209-17.5.1	Metals Digestion	Michael Obasidey	05/09/15 14:11	Digestate from JB94209-17.5
JB94209-17.5.1	Michael Obasidey	Metals Digestate Storage	05/09/15 14:12	Return to Storage
JB94209-17.5.1	Metals Digestate Storage	Nancy Duan	05/11/15 12:49	Retrieve from Storage
JB94209-17.5.1	Nancy Duan	Metals Digestate Storage	05/11/15 12:50	Return to Storage
JB94209-17.5.1	Metals Digestate Storage	Kyle Kroeze	05/11/15 17:14	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB94209-17.5.1	Kyle Kroeze	Metals Digestate Storage	05/11/15 17:15	Return to Storage
JB94209-17.5.1	Metals Digestate Storage	Kyle Kroeze	05/12/15 15:51	Retrieve from Storage
JB94209-17.5.1	Kyle Kroeze	Metals Digestate Storage	05/12/15 15:52	Return to Storage
JB94209-17F.6	Secured Storage	Dwayne Johnson	05/08/15 08:24	Retrieve from Storage
JB94209-17F.6	Dwayne Johnson	Secured Staging Area	05/08/15 08:24	Return to Storage
JB94209-17F.6	Secured Staging Area	Francis Pandolfo	05/08/15 08:30	Retrieve from Storage
JB94209-17F.6	Francis Pandolfo	Secured Storage	05/08/15 16:59	Return to Storage
JB94209-18.1	Secured Storage	Todd Shoemaker	05/08/15 09:45	Retrieve from Storage
JB94209-18.1	Todd Shoemaker	Secured Staging Area	05/08/15 09:45	Return to Storage
JB94209-18.1	Secured Staging Area	Kruti Patel	05/08/15 10:16	Retrieve from Storage
JB94209-18.1	Kruti Patel	Secured Storage	05/08/15 11:22	Return to Storage
JB94209-18.1	Secured Storage	Arielle Cocozza	05/09/15 04:30	Retrieve from Storage
JB94209-18.1	Arielle Cocozza	Sauvelson Auguste	05/09/15 07:07	Custody Transfer
JB94209-18.1	Sauvelson Auguste	Secured Storage	05/09/15 09:07	Return to Storage
JB94209-18.1	Secured Storage	Bernadette Vassilatos	05/10/15 06:20	Retrieve from Storage
JB94209-18.1	Bernadette Vassilatos	Secured Staging Area	05/10/15 06:20	Return to Storage
JB94209-18.1	Secured Staging Area	Sora Lynn Mathurin	05/10/15 06:32	Retrieve from Storage
JB94209-18.1	Sora Lynn Mathurin	Secured Staging Area	05/10/15 15:41	Return to Storage
JB94209-18.1	Secured Staging Area	Albert Quayson	05/11/15 09:10	Retrieve from Storage
JB94209-18.1	Albert Quayson	Secured Storage	05/11/15 09:44	Return to Storage
JB94209-18.1	Secured Storage	Todd Shoemaker	05/12/15 11:19	Retrieve from Storage
JB94209-18.1	Todd Shoemaker	Francis Pandolfo	05/12/15 11:21	Custody Transfer
JB94209-18.1	Francis Pandolfo	Secured Storage	05/12/15 12:30	Return to Storage
JB94209-18.1	Secured Storage	Arielle Cocozza	05/14/15 04:50	Retrieve from Storage
JB94209-18.1	Arielle Cocozza	Sauvelson Auguste	05/14/15 06:37	Custody Transfer
JB94209-18.1	Sauvelson Auguste	Secured Storage	05/14/15 09:16	Return to Storage
JB94209-18.1.1	Sauvelson Auguste	Organics Prep	05/09/15 07:09	Extract from JB94209-18.1
JB94209-18.1.1	Organics Prep	Finley Nyaata	05/09/15 15:01	Extract from JB94209-18.1
JB94209-18.1.1	Finley Nyaata	Extract Storage	05/09/15 15:01	Return to Storage
JB94209-18.1.1	Extract Storage	Ashley Dye	05/10/15 14:02	Retrieve from Storage
JB94209-18.1.1	Ashley Dye	GCMS2P	05/10/15 14:02	Load on Instrument
JB94209-18.1.1	GCMS2P	Samta Patel	05/15/15 09:41	Unload from Instrument
JB94209-18.1.1	Samta Patel	Extract Freezer	05/15/15 09:41	Return to Storage
JB94209-18.1.2	Sora Lynn Mathurin	Organics Prep	05/10/15 06:33	Extract from JB94209-18.1
JB94209-18.1.2	Organics Prep	Albert Quayson	05/10/15 15:49	Extract from JB94209-18.1
JB94209-18.1.2	Albert Quayson	Extract Storage	05/10/15 15:49	Return to Storage
JB94209-18.1.3	Sora Lynn Mathurin	Organics Prep	05/10/15 06:36	Extract from JB94209-18.1
JB94209-18.1.3	Organics Prep	Albert Quayson	05/10/15 15:50	Extract from JB94209-18.1
JB94209-18.1.3	Albert Quayson	Extract Storage	05/10/15 15:50	Return to Storage

Accutest Internal Chain of Custody

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB94209-18.1.3	Extract Storage	Dylan Gary	05/11/15 15:54	Retrieve from Storage
JB94209-18.1.3	Dylan Gary	GC2G	05/11/15 15:54	Load on Instrument
JB94209-18.1.3	GC2G	Dylan Gary	05/12/15 12:26	Unload from Instrument
JB94209-18.1.3	Dylan Gary	Extract Freezer	05/12/15 12:26	Return to Storage
JB94209-18.1.4	Arielle Cocozza	Organics Prep	05/14/15 04:51	Extract from JB94209-18.1
JB94209-18.1.4	Organics Prep	Arielle Cocozza	05/14/15 08:59	Extract from JB94209-18.1
JB94209-18.1.4	Arielle Cocozza	Extract Storage	05/14/15 08:59	Return to Storage
JB94209-18.1.4	Extract Storage	Yvelande DHaiti	05/14/15 09:34	Retrieve from Storage
JB94209-18.1.4	Yvelande DHaiti	GC4G	05/14/15 09:34	Load on Instrument
JB94209-18.2	Secured Storage	Scott McGonigal	05/08/15 11:31	Retrieve from Storage
JB94209-18.2	Scott McGonigal	Secured Storage	05/08/15 15:56	Return to Storage
JB94209-18.3	Secured Storage	Edwin Gonzalez	05/09/15 08:15	Retrieve from Storage
JB94209-18.3	Edwin Gonzalez	Secured Staging Area	05/09/15 08:15	Return to Storage
JB94209-18.3	Secured Staging Area	Mikhail Beaton	05/09/15 09:47	Retrieve from Storage
JB94209-18.3	Mikhail Beaton	Secured Storage	05/09/15 13:57	Return to Storage
JB94209-18.3	Secured Storage	Alfredo Crespo	05/12/15 07:27	Retrieve from Storage
JB94209-18.3	Alfredo Crespo	Secured Staging Area	05/12/15 07:27	Return to Storage
JB94209-18.3	Secured Staging Area	Darshananben Patel	05/12/15 08:37	Retrieve from Storage
JB94209-18.3	Darshananben Patel	Secured Storage	05/12/15 12:56	Return to Storage
JB94209-18.3.1	Mikhail Beaton	Metals Digestion	05/09/15 13:56	Digestate from JB94209-18.3
JB94209-18.3.1	Metals Digestion	Mikhail Beaton	05/09/15 13:57	Digestate from JB94209-18.3
JB94209-18.3.1	Mikhail Beaton	Metals Digestate Storage	05/09/15 13:57	Return to Storage
JB94209-18.3.1	Metals Digestate Storage	Nancy Duan	05/11/15 14:47	Retrieve from Storage
JB94209-18.3.1	Nancy Duan	Metals Digestate Storage	05/11/15 14:52	Return to Storage

New Jersey
ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI8194-MB1	I203932.D	1	05/08/15	SJM	n/a	n/a	VI8194

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-1

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.2	ug/kg	
71-43-2	Benzene	ND	0.50	0.13	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.31	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.16	ug/kg	
75-25-2	Bromoform	ND	5.0	0.24	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.36	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.23	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.16	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.48	ug/kg	
67-66-3	Chloroform	ND	2.0	0.15	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.26	ug/kg	
110-82-7	Cyclohexane	ND	2.0	0.32	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.54	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.21	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.12	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.23	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.36	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.14	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.13	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.78	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.59	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.24	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.12	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.18	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.16	ug/kg	
76-13-1	Freon 113	ND	5.0	0.45	ug/kg	
591-78-6	2-Hexanone	ND	5.0	1.3	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	0.11	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	0.86	ug/kg	
108-87-2	Methylcyclohexane	ND	2.0	0.23	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.15	ug/kg	

Method Blank Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI8194-MB1	I203932.D	1	05/08/15	SJM	n/a	n/a	VI8194

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-1

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.46	ug/kg	
75-09-2	Methylene chloride	ND	5.0	0.98	ug/kg	
100-42-5	Styrene	ND	2.0	0.18	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.18	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.30	ug/kg	
108-88-3	Toluene	ND	1.0	0.21	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.18	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.17	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.15	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.15	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.15	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.20	ug/kg	
	m,p-Xylene	ND	1.0	0.35	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.27	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.27	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	70-122%
17060-07-0	1,2-Dichloroethane-D4	95%	68-124%
2037-26-5	Toluene-D8	91%	77-125%
460-00-4	4-Bromofluorobenzene	97%	72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2D6061-MB	2D144314.D	1	05/08/15	BK	n/a	n/a	V2D6061

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-13, JB94209-14, JB94209-15, JB94209-16

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	

Method Blank Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2D6061-MB	2D144314.D	1	05/08/15	BK	n/a	n/a	V2D6061

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-13, JB94209-14, JB94209-15, JB94209-16

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	95%	76-120%
17060-07-0	1,2-Dichloroethane-D4	87%	73-122%
2037-26-5	Toluene-D8	99%	84-119%
460-00-4	4-Bromofluorobenzene	98%	78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI8195-MB1	I203955.D	1	05/09/15	SJM	n/a	n/a	VI8195

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-10, JB94209-11

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.2	ug/kg	
71-43-2	Benzene	ND	0.50	0.13	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.31	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.16	ug/kg	
75-25-2	Bromoform	ND	5.0	0.24	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.36	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.23	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.16	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.48	ug/kg	
67-66-3	Chloroform	ND	2.0	0.15	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.26	ug/kg	
110-82-7	Cyclohexane	ND	2.0	0.32	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.54	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.21	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.12	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.23	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.36	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.14	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.13	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.78	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.59	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.24	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.12	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.18	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.16	ug/kg	
76-13-1	Freon 113	ND	5.0	0.45	ug/kg	
591-78-6	2-Hexanone	ND	5.0	1.3	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	0.11	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	0.86	ug/kg	
108-87-2	Methylcyclohexane	ND	2.0	0.23	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.15	ug/kg	

Method Blank Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI8195-MB1	I203955.D	1	05/09/15	SJM	n/a	n/a	VI8195

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-10, JB94209-11

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.46	ug/kg	
75-09-2	Methylene chloride	ND	5.0	0.98	ug/kg	
100-42-5	Styrene	ND	2.0	0.18	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.18	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.30	ug/kg	
108-88-3	Toluene	ND	1.0	0.21	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.18	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.17	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.15	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.15	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.15	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.20	ug/kg	
	m,p-Xylene	ND	1.0	0.35	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.27	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.27	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	70-122%
17060-07-0	1,2-Dichloroethane-D4	97%	68-124%
2037-26-5	Toluene-D8	90%	77-125%
460-00-4	4-Bromofluorobenzene	96%	72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C5467-MB	3C119819.D	1	05/10/15	PS	n/a	n/a	V3C5467

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-12

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.2	ug/kg	
71-43-2	Benzene	ND	0.50	0.13	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.31	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.16	ug/kg	
75-25-2	Bromoform	ND	5.0	0.24	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.36	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.23	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.16	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.48	ug/kg	
67-66-3	Chloroform	ND	2.0	0.15	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.26	ug/kg	
110-82-7	Cyclohexane	ND	2.0	0.32	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.54	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.21	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.12	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.23	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.36	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.14	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.13	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.78	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.59	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.24	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.12	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.18	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.16	ug/kg	
76-13-1	Freon 113	ND	5.0	0.45	ug/kg	
591-78-6	2-Hexanone	ND	5.0	1.3	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	0.11	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	0.86	ug/kg	
108-87-2	Methylcyclohexane	ND	2.0	0.23	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.15	ug/kg	

Method Blank Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C5467-MB	3C119819.D	1	05/10/15	PS	n/a	n/a	V3C5467

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-12

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.46	ug/kg	
75-09-2	Methylene chloride	ND	5.0	0.98	ug/kg	
100-42-5	Styrene	ND	2.0	0.18	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.18	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.30	ug/kg	
108-88-3	Toluene	ND	1.0	0.21	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.18	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.17	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.15	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.15	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.15	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.20	ug/kg	
	m,p-Xylene	ND	1.0	0.35	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.27	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.27	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	70-122%
17060-07-0	1,2-Dichloroethane-D4	110%	68-124%
2037-26-5	Toluene-D8	103%	77-125%
460-00-4	4-Bromofluorobenzene	97%	72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI8196-MB1	I203982.D	1	05/11/15	SJM	n/a	n/a	VI8196

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-9

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.2	ug/kg	
71-43-2	Benzene	ND	0.50	0.13	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.31	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.16	ug/kg	
75-25-2	Bromoform	ND	5.0	0.24	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.36	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.23	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.16	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.48	ug/kg	
67-66-3	Chloroform	ND	2.0	0.15	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.26	ug/kg	
110-82-7	Cyclohexane	ND	2.0	0.32	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.54	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.21	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.12	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.23	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.36	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.14	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.13	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.78	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.59	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.24	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.12	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.18	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.16	ug/kg	
76-13-1	Freon 113	ND	5.0	0.45	ug/kg	
591-78-6	2-Hexanone	ND	5.0	1.3	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	0.11	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	0.86	ug/kg	
108-87-2	Methylcyclohexane	ND	2.0	0.23	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.15	ug/kg	

Method Blank Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI8196-MB1	I203982.D	1	05/11/15	SJM	n/a	n/a	VI8196

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-9

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.46	ug/kg	
75-09-2	Methylene chloride	ND	5.0	0.98	ug/kg	
100-42-5	Styrene	ND	2.0	0.18	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.18	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.30	ug/kg	
108-88-3	Toluene	ND	1.0	0.21	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.18	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.17	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.15	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.15	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.15	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.20	ug/kg	
	m,p-Xylene	ND	1.0	0.35	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.27	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.27	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	70-122%
17060-07-0	1,2-Dichloroethane-D4	92%	68-124%
2037-26-5	Toluene-D8	90%	77-125%
460-00-4	4-Bromofluorobenzene	96%	72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI8197-MB1	I204005.D	1	05/12/15	SJM	n/a	n/a	VI8197

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-18

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.2	ug/kg	
71-43-2	Benzene	ND	0.50	0.13	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.31	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.16	ug/kg	
75-25-2	Bromoform	ND	5.0	0.24	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.36	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.23	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.16	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.48	ug/kg	
67-66-3	Chloroform	ND	2.0	0.15	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.26	ug/kg	
110-82-7	Cyclohexane	ND	2.0	0.32	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.54	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.21	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.12	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.23	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.36	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.14	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.13	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.78	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.59	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.24	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.12	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.18	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.16	ug/kg	
76-13-1	Freon 113	ND	5.0	0.45	ug/kg	
591-78-6	2-Hexanone	ND	5.0	1.3	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	0.11	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	0.86	ug/kg	
108-87-2	Methylcyclohexane	ND	2.0	0.23	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.15	ug/kg	

Method Blank Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI8197-MB1	I204005.D	1	05/12/15	SJM	n/a	n/a	VI8197

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-18

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.46	ug/kg	
75-09-2	Methylene chloride	ND	5.0	0.98	ug/kg	
100-42-5	Styrene	ND	2.0	0.18	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.18	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.30	ug/kg	
108-88-3	Toluene	ND	1.0	0.21	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.18	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.17	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.15	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.15	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.15	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.25	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.20	ug/kg	
	m,p-Xylene	ND	1.0	0.35	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.27	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.27	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	70-122%
17060-07-0	1,2-Dichloroethane-D4	91%	68-124%
2037-26-5	Toluene-D8	90%	77-125%
460-00-4	4-Bromofluorobenzene	97%	72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Blank Spike Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI8194-BS	I203933.D	1	05/08/15	SJM	n/a	n/a	VI8194

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	57.7	115	30-150
71-43-2	Benzene	50	50.8	102	77-122
74-97-5	Bromochloromethane	50	57.7	115	81-126
75-27-4	Bromodichloromethane	50	54.8	110	82-130
75-25-2	Bromoform	50	67.1	134	78-134
74-83-9	Bromomethane	50	69.0	138	56-141
78-93-3	2-Butanone (MEK)	50	63.9	128	61-139
75-15-0	Carbon disulfide	50	54.9	110	68-131
56-23-5	Carbon tetrachloride	50	62.9	126	73-139
108-90-7	Chlorobenzene	50	52.0	104	79-120
75-00-3	Chloroethane	50	54.8	110	64-150
67-66-3	Chloroform	50	51.7	103	77-123
74-87-3	Chloromethane	50	50.2	100	50-140
110-82-7	Cyclohexane	50	53.3	107	66-131
96-12-8	1,2-Dibromo-3-chloropropane	50	62.2	124	70-128
124-48-1	Dibromochloromethane	50	59.0	118	82-129
106-93-4	1,2-Dibromoethane	50	57.6	115	83-125
95-50-1	1,2-Dichlorobenzene	50	53.7	107	79-118
541-73-1	1,3-Dichlorobenzene	50	52.0	104	76-119
106-46-7	1,4-Dichlorobenzene	50	50.4	101	75-118
75-71-8	Dichlorodifluoromethane	50	57.0	114	31-170
75-34-3	1,1-Dichloroethane	50	49.3	99	78-129
107-06-2	1,2-Dichloroethane	50	54.2	108	77-140
75-35-4	1,1-Dichloroethene	50	51.5	103	71-128
156-59-2	cis-1,2-Dichloroethene	50	50.7	101	73-123
156-60-5	trans-1,2-Dichloroethene	50	51.8	104	72-122
78-87-5	1,2-Dichloropropane	50	49.3	99	80-129
10061-01-5	cis-1,3-Dichloropropene	50	51.9	104	75-124
10061-02-6	trans-1,3-Dichloropropene	50	52.3	105	75-129
100-41-4	Ethylbenzene	50	50.1	100	75-121
76-13-1	Freon 113	50	65.7	131	67-136
591-78-6	2-Hexanone	50	62.4	125	63-140
98-82-8	Isopropylbenzene	50	51.5	103	70-126
79-20-9	Methyl Acetate	50	61.4	123	59-131
108-87-2	Methylcyclohexane	50	54.9	110	62-131
1634-04-4	Methyl Tert Butyl Ether	100	104	104	77-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI8194-BS	I203933.D	1	05/08/15	SJM	n/a	n/a	VI8194

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	50	59.6	119	73-141
75-09-2	Methylene chloride	50	50.7	101	71-124
100-42-5	Styrene	50	51.1	102	79-125
79-34-5	1,1,2,2-Tetrachloroethane	50	52.3	105	72-121
127-18-4	Tetrachloroethene	50	60.6	121	70-135
108-88-3	Toluene	50	49.3	99	75-123
87-61-6	1,2,3-Trichlorobenzene	50	51.9	104	76-128
120-82-1	1,2,4-Trichlorobenzene	50	53.0	106	74-129
71-55-6	1,1,1-Trichloroethane	50	57.0	114	75-134
79-00-5	1,1,2-Trichloroethane	50	55.6	111	78-130
79-01-6	Trichloroethene	50	55.5	111	79-127
75-69-4	Trichlorofluoromethane	50	68.4	137	64-141
75-01-4	Vinyl chloride	50	56.2	112	57-136
	m,p-Xylene	100	104	104	75-122
95-47-6	o-Xylene	50	52.6	105	76-121
1330-20-7	Xylene (total)	150	157	105	76-121

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	70-122%
17060-07-0	1,2-Dichloroethane-D4	99%	68-124%
2037-26-5	Toluene-D8	97%	77-125%
460-00-4	4-Bromofluorobenzene	96%	72-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2D6061-BS	2D144315.D	1	05/08/15	BK	n/a	n/a	V2D6061

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-13, JB94209-14, JB94209-15, JB94209-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	53.5	107	47-144
71-43-2	Benzene	50	52.7	105	81-119
74-97-5	Bromochloromethane	50	53.7	107	84-120
75-27-4	Bromodichloromethane	50	50.5	101	81-125
75-25-2	Bromoform	50	51.3	103	74-128
74-83-9	Bromomethane	50	50.7	101	52-146
78-93-3	2-Butanone (MEK)	50	49.3	99	68-130
75-15-0	Carbon disulfide	50	48.2	96	71-129
56-23-5	Carbon tetrachloride	50	46.7	93	77-140
108-90-7	Chlorobenzene	50	53.6	107	84-116
75-00-3	Chloroethane	50	56.0	112	70-148
67-66-3	Chloroform	50	48.5	97	81-120
74-87-3	Chloromethane	50	43.5	87	50-143
110-82-7	Cyclohexane	50	48.2	96	77-125
96-12-8	1,2-Dibromo-3-chloropropane	50	52.3	105	66-132
124-48-1	Dibromochloromethane	50	52.7	105	81-122
106-93-4	1,2-Dibromoethane	50	52.5	105	81-120
95-50-1	1,2-Dichlorobenzene	50	53.9	108	80-117
541-73-1	1,3-Dichlorobenzene	50	52.5	105	81-116
106-46-7	1,4-Dichlorobenzene	50	51.2	102	80-115
75-71-8	Dichlorodifluoromethane	50	39.3	79	36-169
75-34-3	1,1-Dichloroethane	50	52.5	105	80-125
107-06-2	1,2-Dichloroethane	50	48.6	97	78-131
75-35-4	1,1-Dichloroethene	50	50.1	100	73-127
156-59-2	cis-1,2-Dichloroethene	50	51.6	103	77-118
156-60-5	trans-1,2-Dichloroethene	50	49.3	99	75-118
78-87-5	1,2-Dichloropropane	50	51.1	102	80-124
10061-01-5	cis-1,3-Dichloropropene	50	54.2	108	72-121
10061-02-6	trans-1,3-Dichloropropene	50	51.6	103	73-122
100-41-4	Ethylbenzene	50	52.0	104	80-118
76-13-1	Freon 113	50	50.1	100	76-140
591-78-6	2-Hexanone	50	52.7	105	66-128
98-82-8	Isopropylbenzene	50	53.1	106	78-125
79-20-9	Methyl Acetate	50	49.9	100	63-120
108-87-2	Methylcyclohexane	50	46.8	94	69-132
1634-04-4	Methyl Tert Butyl Ether	100	102	102	73-122

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2D6061-BS	2D144315.D	1	05/08/15	BK	n/a	n/a	V2D6061

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-13, JB94209-14, JB94209-15, JB94209-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	50	50.3	101	73-129
75-09-2	Methylene chloride	50	49.2	98	75-122
100-42-5	Styrene	50	55.0	110	81-121
79-34-5	1,1,2,2-Tetrachloroethane	50	50.5	101	69-116
127-18-4	Tetrachloroethene	50	51.4	103	69-138
108-88-3	Toluene	50	52.2	104	80-122
87-61-6	1,2,3-Trichlorobenzene	50	59.1	118	74-137
120-82-1	1,2,4-Trichlorobenzene	50	59.0	118	75-135
71-55-6	1,1,1-Trichloroethane	50	49.6	99	80-131
79-00-5	1,1,2-Trichloroethane	50	52.1	104	78-122
79-01-6	Trichloroethene	50	54.5	109	83-122
75-69-4	Trichlorofluoromethane	50	47.3	95	66-143
75-01-4	Vinyl chloride	50	47.6	95	57-138
	m,p-Xylene	100	108	108	82-119
95-47-6	o-Xylene	50	53.6	107	82-119
1330-20-7	Xylene (total)	150	161	107	82-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	76-120%
17060-07-0	1,2-Dichloroethane-D4	89%	73-122%
2037-26-5	Toluene-D8	100%	84-119%
460-00-4	4-Bromofluorobenzene	98%	78-117%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI8195-BS	I203956.D	1	05/09/15	SJM	n/a	n/a	VI8195

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-10, JB94209-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	44.1	88	30-150
71-43-2	Benzene	50	51.2	102	77-122
74-97-5	Bromochloromethane	50	57.7	115	81-126
75-27-4	Bromodichloromethane	50	55.7	111	82-130
75-25-2	Bromoform	50	68.5	137* [a]	78-134
74-83-9	Bromomethane	50	66.8	134	56-141
78-93-3	2-Butanone (MEK)	50	47.9	96	61-139
75-15-0	Carbon disulfide	50	54.8	110	68-131
56-23-5	Carbon tetrachloride	50	65.3	131	73-139
108-90-7	Chlorobenzene	50	53.4	107	79-120
75-00-3	Chloroethane	50	59.0	118	64-150
67-66-3	Chloroform	50	52.8	106	77-123
74-87-3	Chloromethane	50	53.5	107	50-140
110-82-7	Cyclohexane	50	53.3	107	66-131
96-12-8	1,2-Dibromo-3-chloropropane	50	55.8	112	70-128
124-48-1	Dibromochloromethane	50	60.4	121	82-129
106-93-4	1,2-Dibromoethane	50	57.3	115	83-125
95-50-1	1,2-Dichlorobenzene	50	53.5	107	79-118
541-73-1	1,3-Dichlorobenzene	50	51.0	102	76-119
106-46-7	1,4-Dichlorobenzene	50	49.6	99	75-118
75-71-8	Dichlorodifluoromethane	50	60.8	122	31-170
75-34-3	1,1-Dichloroethane	50	49.6	99	78-129
107-06-2	1,2-Dichloroethane	50	55.7	111	77-140
75-35-4	1,1-Dichloroethene	50	51.3	103	71-128
156-59-2	cis-1,2-Dichloroethene	50	51.2	102	73-123
156-60-5	trans-1,2-Dichloroethene	50	52.3	105	72-122
78-87-5	1,2-Dichloropropane	50	49.4	99	80-129
10061-01-5	cis-1,3-Dichloropropene	50	50.2	100	75-124
10061-02-6	trans-1,3-Dichloropropene	50	50.7	101	75-129
100-41-4	Ethylbenzene	50	49.1	98	75-121
76-13-1	Freon 113	50	69.8	140* [a]	67-136
591-78-6	2-Hexanone	50	42.0	84	63-140
98-82-8	Isopropylbenzene	50	45.8	92	70-126
79-20-9	Methyl Acetate	50	44.7	89	59-131
108-87-2	Methylcyclohexane	50	55.3	111	62-131
1634-04-4	Methyl Tert Butyl Ether	100	104	104	77-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI8195-BS	I203956.D	1	05/09/15	SJM	n/a	n/a	VI8195

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-10, JB94209-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	50	46.3	93	73-141
75-09-2	Methylene chloride	50	52.1	104	71-124
100-42-5	Styrene	50	52.3	105	79-125
79-34-5	1,1,2,2-Tetrachloroethane	50	47.5	95	72-121
127-18-4	Tetrachloroethene	50	55.6	111	70-135
108-88-3	Toluene	50	49.3	99	75-123
87-61-6	1,2,3-Trichlorobenzene	50	49.2	98	76-128
120-82-1	1,2,4-Trichlorobenzene	50	46.5	93	74-129
71-55-6	1,1,1-Trichloroethane	50	58.7	117	75-134
79-00-5	1,1,2-Trichloroethane	50	55.4	111	78-130
79-01-6	Trichloroethene	50	55.3	111	79-127
75-69-4	Trichlorofluoromethane	50	73.2	146* [a]	64-141
75-01-4	Vinyl chloride	50	59.9	120	57-136
	m,p-Xylene	100	102	102	75-122
95-47-6	o-Xylene	50	49.2	98	76-121
1330-20-7	Xylene (total)	150	151	101	76-121

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	95%	70-122%
17060-07-0	1,2-Dichloroethane-D4	96%	68-124%
2037-26-5	Toluene-D8	94%	77-125%
460-00-4	4-Bromofluorobenzene	95%	72-130%

(a) High percent recoveries and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C5467-BS	3C119820.D	1	05/10/15	PS	n/a	n/a	V3C5467

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-12

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	67.5	135	30-150
71-43-2	Benzene	50	48.8	98	77-122
74-97-5	Bromochloromethane	50	48.3	97	81-126
75-27-4	Bromodichloromethane	50	51.7	103	82-130
75-25-2	Bromoform	50	51.0	102	78-134
74-83-9	Bromomethane	50	45.5	91	56-141
78-93-3	2-Butanone (MEK)	50	53.6	107	61-139
75-15-0	Carbon disulfide	50	47.2	94	68-131
56-23-5	Carbon tetrachloride	50	50.6	101	73-139
108-90-7	Chlorobenzene	50	50.3	101	79-120
75-00-3	Chloroethane	50	50.8	102	64-150
67-66-3	Chloroform	50	49.0	98	77-123
74-87-3	Chloromethane	50	43.2	86	50-140
110-82-7	Cyclohexane	50	53.4	107	66-131
96-12-8	1,2-Dibromo-3-chloropropane	50	48.5	97	70-128
124-48-1	Dibromochloromethane	50	49.7	99	82-129
106-93-4	1,2-Dibromoethane	50	50.1	100	83-125
95-50-1	1,2-Dichlorobenzene	50	48.5	97	79-118
541-73-1	1,3-Dichlorobenzene	50	48.4	97	76-119
106-46-7	1,4-Dichlorobenzene	50	47.2	94	75-118
75-71-8	Dichlorodifluoromethane	50	41.9	84	31-170
75-34-3	1,1-Dichloroethane	50	50.3	101	78-129
107-06-2	1,2-Dichloroethane	50	51.5	103	77-140
75-35-4	1,1-Dichloroethene	50	49.1	98	71-128
156-59-2	cis-1,2-Dichloroethene	50	43.8	88	73-123
156-60-5	trans-1,2-Dichloroethene	50	48.2	96	72-122
78-87-5	1,2-Dichloropropane	50	50.0	100	80-129
10061-01-5	cis-1,3-Dichloropropene	50	49.8	100	75-124
10061-02-6	trans-1,3-Dichloropropene	50	48.8	98	75-129
100-41-4	Ethylbenzene	50	48.4	97	75-121
76-13-1	Freon 113	50	53.9	108	67-136
591-78-6	2-Hexanone	50	59.5	119	63-140
98-82-8	Isopropylbenzene	50	50.8	102	70-126
79-20-9	Methyl Acetate	50	46.6	93	59-131
108-87-2	Methylcyclohexane	50	49.1	98	62-131
1634-04-4	Methyl Tert Butyl Ether	100	93.8	94	77-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C5467-BS	3C119820.D	1	05/10/15	PS	n/a	n/a	V3C5467

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-12

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	50	53.2	106	73-141
75-09-2	Methylene chloride	50	47.5	95	71-124
100-42-5	Styrene	50	50.7	101	79-125
79-34-5	1,1,2,2-Tetrachloroethane	50	45.7	91	72-121
127-18-4	Tetrachloroethene	50	47.2	94	70-135
108-88-3	Toluene	50	46.9	94	75-123
87-61-6	1,2,3-Trichlorobenzene	50	49.8	100	76-128
120-82-1	1,2,4-Trichlorobenzene	50	51.1	102	74-129
71-55-6	1,1,1-Trichloroethane	50	51.7	103	75-134
79-00-5	1,1,2-Trichloroethane	50	50.5	101	78-130
79-01-6	Trichloroethene	50	48.8	98	79-127
75-69-4	Trichlorofluoromethane	50	46.9	94	64-141
75-01-4	Vinyl chloride	50	43.9	88	57-136
	m,p-Xylene	100	94.9	95	75-122
95-47-6	o-Xylene	50	48.9	98	76-121
1330-20-7	Xylene (total)	150	144	96	76-121

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	70-122%
17060-07-0	1,2-Dichloroethane-D4	111%	68-124%
2037-26-5	Toluene-D8	101%	77-125%
460-00-4	4-Bromofluorobenzene	104%	72-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI8196-BS	I203983.D	1	05/11/15	SJM	n/a	n/a	VI8196

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-9

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	51.6	103	30-150
71-43-2	Benzene	50	50.0	100	77-122
74-97-5	Bromochloromethane	50	58.6	117	81-126
75-27-4	Bromodichloromethane	50	53.2	106	82-130
75-25-2	Bromoform	50	67.8	136* [a]	78-134
74-83-9	Bromomethane	50	47.3	95	56-141
78-93-3	2-Butanone (MEK)	50	57.8	116	61-139
75-15-0	Carbon disulfide	50	56.6	113	68-131
56-23-5	Carbon tetrachloride	50	59.8	120	73-139
108-90-7	Chlorobenzene	50	51.5	103	79-120
75-00-3	Chloroethane	50	45.5	91	64-150
67-66-3	Chloroform	50	51.5	103	77-123
74-87-3	Chloromethane	50	49.5	99	50-140
110-82-7	Cyclohexane	50	55.4	111	66-131
96-12-8	1,2-Dibromo-3-chloropropane	50	58.2	116	70-128
124-48-1	Dibromochloromethane	50	56.9	114	82-129
106-93-4	1,2-Dibromoethane	50	58.1	116	83-125
95-50-1	1,2-Dichlorobenzene	50	52.3	105	79-118
541-73-1	1,3-Dichlorobenzene	50	51.3	103	76-119
106-46-7	1,4-Dichlorobenzene	50	50.2	100	75-118
75-71-8	Dichlorodifluoromethane	50	56.2	112	31-170
75-34-3	1,1-Dichloroethane	50	50.3	101	78-129
107-06-2	1,2-Dichloroethane	50	51.9	104	77-140
75-35-4	1,1-Dichloroethene	50	52.0	104	71-128
156-59-2	cis-1,2-Dichloroethene	50	52.1	104	73-123
156-60-5	trans-1,2-Dichloroethene	50	53.1	106	72-122
78-87-5	1,2-Dichloropropane	50	49.7	99	80-129
10061-01-5	cis-1,3-Dichloropropene	50	50.6	101	75-124
10061-02-6	trans-1,3-Dichloropropene	50	51.9	104	75-129
100-41-4	Ethylbenzene	50	47.6	95	75-121
76-13-1	Freon 113	50	65.3	131	67-136
591-78-6	2-Hexanone	50	50.0	100	63-140
98-82-8	Isopropylbenzene	50	45.1	90	70-126
79-20-9	Methyl Acetate	50	46.9	94	59-131
108-87-2	Methylcyclohexane	50	54.0	108	62-131
1634-04-4	Methyl Tert Butyl Ether	100	105	105	77-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI8196-BS	I203983.D	1	05/11/15	SJM	n/a	n/a	VI8196

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-9

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	50	51.1	102	73-141
75-09-2	Methylene chloride	50	53.8	108	71-124
100-42-5	Styrene	50	51.5	103	79-125
79-34-5	1,1,2,2-Tetrachloroethane	50	49.5	99	72-121
127-18-4	Tetrachloroethene	50	52.8	106	70-135
108-88-3	Toluene	50	47.8	96	75-123
87-61-6	1,2,3-Trichlorobenzene	50	51.5	103	76-128
120-82-1	1,2,4-Trichlorobenzene	50	51.2	102	74-129
71-55-6	1,1,1-Trichloroethane	50	56.9	114	75-134
79-00-5	1,1,2-Trichloroethane	50	53.8	108	78-130
79-01-6	Trichloroethene	50	52.4	105	79-127
75-69-4	Trichlorofluoromethane	50	66.9	134	64-141
75-01-4	Vinyl chloride	50	57.1	114	57-136
	m,p-Xylene	100	99.8	100	75-122
95-47-6	o-Xylene	50	48.0	96	76-121
1330-20-7	Xylene (total)	150	148	99	76-121

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	70-122%
17060-07-0	1,2-Dichloroethane-D4	94%	68-124%
2037-26-5	Toluene-D8	93%	77-125%
460-00-4	4-Bromofluorobenzene	95%	72-130%

(a) High percent recoveries and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI8197-BS	I204006.D	1	05/12/15	SJM	n/a	n/a	VI8197

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-18

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	61.3	123	30-150
71-43-2	Benzene	50	55.5	111	77-122
74-97-5	Bromochloromethane	50	65.0	130* [a]	81-126
75-27-4	Bromodichloromethane	50	59.0	118	82-130
75-25-2	Bromoform	50	71.3	143* [a]	78-134
74-83-9	Bromomethane	50	58.0	116	56-141
78-93-3	2-Butanone (MEK)	50	64.1	128	61-139
75-15-0	Carbon disulfide	50	58.9	118	68-131
56-23-5	Carbon tetrachloride	50	62.4	125	73-139
108-90-7	Chlorobenzene	50	58.0	116	79-120
75-00-3	Chloroethane	50	43.6	87	64-150
67-66-3	Chloroform	50	59.0	118	77-123
74-87-3	Chloromethane	50	50.8	102	50-140
110-82-7	Cyclohexane	50	57.3	115	66-131
96-12-8	1,2-Dibromo-3-chloropropane	50	63.4	127	70-128
124-48-1	Dibromochloromethane	50	64.8	130* [a]	82-129
106-93-4	1,2-Dibromoethane	50	62.1	124	83-125
95-50-1	1,2-Dichlorobenzene	50	58.1	116	79-118
541-73-1	1,3-Dichlorobenzene	50	56.4	113	76-119
106-46-7	1,4-Dichlorobenzene	50	54.3	109	75-118
75-71-8	Dichlorodifluoromethane	50	57.8	116	31-170
75-34-3	1,1-Dichloroethane	50	56.2	112	78-129
107-06-2	1,2-Dichloroethane	50	55.9	112	77-140
75-35-4	1,1-Dichloroethene	50	54.8	110	71-128
156-59-2	cis-1,2-Dichloroethene	50	58.4	117	73-123
156-60-5	trans-1,2-Dichloroethene	50	58.5	117	72-122
78-87-5	1,2-Dichloropropane	50	55.7	111	80-129
10061-01-5	cis-1,3-Dichloropropene	50	56.2	112	75-124
10061-02-6	trans-1,3-Dichloropropene	50	54.9	110	75-129
100-41-4	Ethylbenzene	50	53.7	107	75-121
76-13-1	Freon 113	50	68.0	136	67-136
591-78-6	2-Hexanone	50	52.6	105	63-140
98-82-8	Isopropylbenzene	50	56.1	112	70-126
79-20-9	Methyl Acetate	50	52.0	104	59-131
108-87-2	Methylcyclohexane	50	54.9	110	62-131
1634-04-4	Methyl Tert Butyl Ether	100	109	109	77-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI8197-BS	I204006.D	1	05/12/15	SJM	n/a	n/a	VI8197

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-18

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	50	55.8	112	73-141
75-09-2	Methylene chloride	50	57.4	115	71-124
100-42-5	Styrene	50	56.2	112	79-125
79-34-5	1,1,2,2-Tetrachloroethane	50	55.0	110	72-121
127-18-4	Tetrachloroethene	50	63.4	127	70-135
108-88-3	Toluene	50	53.9	108	75-123
87-61-6	1,2,3-Trichlorobenzene	50	53.0	106	76-128
120-82-1	1,2,4-Trichlorobenzene	50	50.7	101	74-129
71-55-6	1,1,1-Trichloroethane	50	61.4	123	75-134
79-00-5	1,1,2-Trichloroethane	50	59.5	119	78-130
79-01-6	Trichloroethene	50	58.7	117	79-127
75-69-4	Trichlorofluoromethane	50	68.7	137	64-141
75-01-4	Vinyl chloride	50	58.9	118	57-136
	m,p-Xylene	100	112	112	75-122
95-47-6	o-Xylene	50	56.1	112	76-121
1330-20-7	Xylene (total)	150	168	112	76-121

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	70-122%
17060-07-0	1,2-Dichloroethane-D4	88%	68-124%
2037-26-5	Toluene-D8	95%	77-125%
460-00-4	4-Bromofluorobenzene	97%	72-130%

(a) High percent recoveries and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB94209-1MS	I203934.D	1	05/08/15	SJM	n/a	n/a	VI8194
JB94209-1MSD	I203935.D	1	05/08/15	SJM	n/a	n/a	VI8194
JB94209-1	I203937.D	1	05/08/15	SJM	n/a	n/a	VI8194

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-1

CAS No.	Compound	JB94209-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		57.1	49.2	86	57.1	38.8	68	24	10-180/33
71-43-2	Benzene	ND		57.1	37.8	66	57.1	37.6	66	1	48-136/30
74-97-5	Bromochloromethane	ND		57.1	47.2	83	57.1	43.5	76	8	53-137/26
75-27-4	Bromodichloromethane	ND		57.1	42.3	74	57.1	41.3	72	2	50-145/28
75-25-2	Bromoform	ND		57.1	46.1	81	57.1	42.6	75	8	39-148/24
74-83-9	Bromomethane	ND		57.1	49.5	87	57.1	50.8	89	3	12-156/32
78-93-3	2-Butanone (MEK)	ND		57.1	49.0	86	57.1	48.0	84	2	26-164/30
75-15-0	Carbon disulfide	ND		57.1	32.6	57	57.1	32.7	57	0	34-146/31
56-23-5	Carbon tetrachloride	ND		57.1	43.9	77	57.1	42.9	75	2	43-152/31
108-90-7	Chlorobenzene	ND		57.1	31.7	55	57.1	29.2	51	8	38-144/29
75-00-3	Chloroethane	ND		57.1	44.8	78	57.1	45.3	79	1	26-154/34
67-66-3	Chloroform	ND		57.1	42.0	73	57.1	40.1	70	5	52-134/27
74-87-3	Chloromethane	ND		57.1	42.7	75	57.1	41.7	73	2	41-142/28
110-82-7	Cyclohexane	ND		57.1	29.5	52	57.1	29.4	51	0	22-154/33
96-12-8	1,2-Dibromo-3-chloropropane	ND		57.1	44.6	78	57.1	37.3	65	18	29-145/26
124-48-1	Dibromochloromethane	ND		57.1	43.3	76	57.1	41.9	73	3	49-142/24
106-93-4	1,2-Dibromoethane	ND		57.1	40.9	72	57.1	39.0	68	5	46-139/24
95-50-1	1,2-Dichlorobenzene	ND		57.1	25.5	45	57.1	18.7	33	31* [a]	30-144/30
541-73-1	1,3-Dichlorobenzene	ND		57.1	24.5	43	57.1	18.3	32	29	28-148/31
106-46-7	1,4-Dichlorobenzene	ND		57.1	21.8	38	57.1	16.9	30	25	30-142/31
75-71-8	Dichlorodifluoromethane	ND		57.1	44.5	78	57.1	44.9	79	1	31-161/28
75-34-3	1,1-Dichloroethane	ND		57.1	40.4	71	57.1	38.8	68	4	54-137/28
107-06-2	1,2-Dichloroethane	ND		57.1	43.0	75	57.1	41.7	73	3	56-140/24
75-35-4	1,1-Dichloroethene	ND		57.1	37.1	65	57.1	36.4	64	2	41-143/30
156-59-2	cis-1,2-Dichloroethene	ND		57.1	37.0	65	57.1	36.7	64	1	45-137/28
156-60-5	trans-1,2-Dichloroethene	ND		57.1	35.3	62	57.1	36.1	63	2	42-141/30
78-87-5	1,2-Dichloropropane	ND		57.1	38.2	67	57.1	37.5	66	2	53-139/27
10061-01-5	cis-1,3-Dichloropropene	ND		57.1	34.8	61	57.1	33.1	58	5	41-144/26
10061-02-6	trans-1,3-Dichloropropene	ND		57.1	32.5	57	57.1	29.9	52	8	36-148/27
100-41-4	Ethylbenzene	0.41	J	57.1	29.1	50	57.1	28.0	48	4	34-145/29
76-13-1	Freon 113	ND		57.1	47.2	83	57.1	47.1	82	0	30-152/29
591-78-6	2-Hexanone	ND		57.1	45.7	80	57.1	44.3	78	3	16-176/32
98-82-8	Isopropylbenzene	0.58	J	57.1	29.4	50	57.1	26.6	46	10	36-145/33
79-20-9	Methyl Acetate	ND		57.1	64.6	113	57.1	86.6	152	29	26-176/29
108-87-2	Methylcyclohexane	ND		57.1	25.5	45	57.1	25.1	44	2	14-153/33
1634-04-4	Methyl Tert Butyl Ether	ND		57.1	49.8	87	57.1	48.8	85	2	54-129/25

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB94209-1MS	I203934.D	1	05/08/15	SJM	n/a	n/a	VI8194
JB94209-1MSD	I203935.D	1	05/08/15	SJM	n/a	n/a	VI8194
JB94209-1	I203937.D	1	05/08/15	SJM	n/a	n/a	VI8194

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-1

CAS No.	Compound	JB94209-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		57.1	43.2	76	57.1	42.9	75	1	33-154/29
75-09-2	Methylene chloride	ND		57.1	43.7	76	57.1	42.4	74	3	47-133/25
100-42-5	Styrene	ND		57.1	28.1	49	57.1	25.3	44	10	32-156/31
79-34-5	1,1,2,2-Tetrachloroethane	ND		57.1	43.9	77	57.1	36.1	63	20	31-149/25
127-18-4	Tetrachloroethene	ND		57.1	30.7	54	57.1	31.3	55	2	34-163/31
108-88-3	Toluene	ND		57.1	33.6	59	57.1	32.6	57	3	40-141/30
87-61-6	1,2,3-Trichlorobenzene	ND		57.1	13.3	23	57.1	9.3	16	35	14-153/35
120-82-1	1,2,4-Trichlorobenzene	ND		57.1	13.2	23	57.1	8.9	16	39* [a]	14-156/36
71-55-6	1,1,1-Trichloroethane	ND		57.1	43.7	76	57.1	42.5	74	3	48-144/29
79-00-5	1,1,2-Trichloroethane	ND		57.1	45.3	79	57.1	43.0	75	5	43-146/27
79-01-6	Trichloroethene	ND		57.1	34.1	60	57.1	34.5	60	1	42-152/29
75-69-4	Trichlorofluoromethane	ND		57.1	52.3	92	57.1	51.5	90	2	39-153/27
75-01-4	Vinyl chloride	ND		57.1	45.0	79	57.1	44.8	78	0	38-149/29
	m,p-Xylene	2.7		114	60.5	51	114	58.1	48	4	32-148/30
95-47-6	o-Xylene	4.0		57.1	32.8	50	57.1	31.6	48	4	36-145/30
1330-20-7	Xylene (total)	6.7		171	93.2	50	171	89.7	48	4	34-146/29

CAS No.	Surrogate Recoveries	MS	MSD	JB94209-1	Limits
1868-53-7	Dibromofluoromethane	100%	94%	99%	70-122%
17060-07-0	1,2-Dichloroethane-D4	96%	94%	99%	68-124%
2037-26-5	Toluene-D8	92%	95%	94%	77-125%
460-00-4	4-Bromofluorobenzene	107%	99%	104%	72-130%

(a) Outside control limits due to matrix interference. Confirmed by reanalysis.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB94104-3MS	2D144323.D	1	05/08/15	BK	n/a	n/a	V2D6061
JB94104-3MSD	2D144324.D	1	05/08/15	BK	n/a	n/a	V2D6061
JB94104-3	2D144318.D	1	05/08/15	BK	n/a	n/a	V2D6061

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-13, JB94209-14, JB94209-15, JB94209-16

CAS No.	Compound	JB94104-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	48.1	96	50	49.2	98	2	33-158/19
71-43-2	Benzene	ND		50	46.1	92	50	44.4	89	4	43-138/12
74-97-5	Bromochloromethane	ND		50	49.1	98	50	49.4	99	1	75-127/12
75-27-4	Bromodichloromethane	ND		50	45.4	91	50	45.0	90	1	72-128/13
75-25-2	Bromoform	ND		50	47.5	95	50	47.0	94	1	70-131/12
74-83-9	Bromomethane	ND		50	42.8	86	50	40.4	81	6	47-142/16
78-93-3	2-Butanone (MEK)	ND		50	47.1	94	50	48.1	96	2	56-146/12
75-15-0	Carbon disulfide	ND		50	42.7	85	50	39.3	79	8	38-136/17
56-23-5	Carbon tetrachloride	ND		50	41.6	83	50	37.9	76	9	45-149/17
108-90-7	Chlorobenzene	ND		50	46.9	94	50	46.1	92	2	70-124/12
75-00-3	Chloroethane	ND		50	43.0	86	50	39.9	80	7	47-139/15
67-66-3	Chloroform	ND		50	42.7	85	50	41.7	83	2	66-126/13
74-87-3	Chloromethane	ND		50	38.1	76	50	35.3	71	8	41-140/15
110-82-7	Cyclohexane	ND		50	43.7	87	50	40.2	80	8	30-148/17
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	50.2	100	50	51.2	102	2	64-136/14
124-48-1	Dibromochloromethane	ND		50	47.7	95	50	47.8	96	0	75-126/12
106-93-4	1,2-Dibromoethane	ND		50	48.6	97	50	49.2	98	1	77-124/11
95-50-1	1,2-Dichlorobenzene	ND		50	48.0	96	50	47.8	96	0	71-124/12
541-73-1	1,3-Dichlorobenzene	ND		50	46.8	94	50	45.9	92	2	69-125/12
106-46-7	1,4-Dichlorobenzene	ND		50	45.5	91	50	45.2	90	1	69-122/12
75-71-8	Dichlorodifluoromethane	ND		50	42.7	85	50	38.6	77	10	24-161/20
75-34-3	1,1-Dichloroethane	ND		50	44.6	89	50	42.8	86	4	60-129/13
107-06-2	1,2-Dichloroethane	ND		50	45.1	90	50	44.4	89	2	72-133/12
75-35-4	1,1-Dichloroethene	ND		50	45.3	91	50	41.4	83	9	40-137/17
156-59-2	cis-1,2-Dichloroethene	ND		50	45.9	92	50	44.9	90	2	57-128/13
156-60-5	trans-1,2-Dichloroethene	ND		50	44.0	88	50	41.6	83	6	53-128/15
78-87-5	1,2-Dichloropropane	ND		50	44.9	90	50	44.3	89	1	69-127/12
10061-01-5	cis-1,3-Dichloropropene	ND		50	48.0	96	50	47.6	95	1	67-129/14
10061-02-6	trans-1,3-Dichloropropene	ND		50	46.9	94	50	46.9	94	0	68-130/14
100-41-4	Ethylbenzene	ND		50	45.7	91	50	43.9	88	4	38-139/12
76-13-1	Freon 113	ND		50	43.5	87	50	39.1	78	11	34-154/18
591-78-6	2-Hexanone	ND		50	56.1	112	50	56.9	114	1	55-148/15
98-82-8	Isopropylbenzene	ND		50	46.0	92	50	43.8	88	5	54-137/15
79-20-9	Methyl Acetate	ND		50	48.1	96	50	48.7	97	1	60-137/13
108-87-2	Methylcyclohexane	ND		50	43.3	87	50	39.6	79	9	30-152/17
1634-04-4	Methyl Tert Butyl Ether	ND		50	48.2	96	50	48.3	97	0	64-132/13

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB94104-3MS	2D144323.D	1	05/08/15	BK	n/a	n/a	V2D6061
JB94104-3MSD	2D144324.D	1	05/08/15	BK	n/a	n/a	V2D6061
JB94104-3	2D144318.D	1	05/08/15	BK	n/a	n/a	V2D6061

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-13, JB94209-14, JB94209-15, JB94209-16

CAS No.	Compound	JB94104-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		50	52.9	106	50	55.1	110	4	68-139/12
75-09-2	Methylene chloride	ND		50	43.7	87	50	44.0	88	1	63-128/13
100-42-5	Styrene	ND		50	48.5	97	50	47.7	95	2	61-134/13
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	49.9	100	50	50.6	101	1	67-126/13
127-18-4	Tetrachloroethene	ND		50	45.8	92	50	43.1	86	6	43-145/15
108-88-3	Toluene	ND		50	46.3	93	50	43.9	88	5	51-136/13
87-61-6	1,2,3-Trichlorobenzene	ND		50	52.4	105	50	52.4	105	0	66-140/14
120-82-1	1,2,4-Trichlorobenzene	ND		50	51.1	102	50	51.1	102	0	65-138/15
71-55-6	1,1,1-Trichloroethane	ND		50	43.2	86	50	39.7	79	8	51-141/16
79-00-5	1,1,2-Trichloroethane	ND		50	48.5	97	50	48.6	97	0	71-127/12
79-01-6	Trichloroethene	ND		50	47.3	95	50	45.4	91	4	55-136/14
75-69-4	Trichlorofluoromethane	ND		50	44.5	89	50	40.3	81	10	33-157/21
75-01-4	Vinyl chloride	ND		50	41.1	82	50	37.6	75	9	34-147/17
	m,p-Xylene	ND		100	93.6	94	100	90.2	90	4	42-139/13
95-47-6	o-Xylene	ND		50	47.2	94	50	46.1	92	2	56-134/13
1330-20-7	Xylene (total)	ND		150	141	94	150	136	91	4	46-137/12

CAS No.	Surrogate Recoveries	MS	MSD	JB94104-3	Limits
1868-53-7	Dibromofluoromethane	96%	97%	96%	76-120%
17060-07-0	1,2-Dichloroethane-D4	89%	90%	89%	73-122%
2037-26-5	Toluene-D8	100%	101%	100%	84-119%
460-00-4	4-Bromofluorobenzene	98%	99%	98%	78-117%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB94209-2MS	I203957.D	1	05/09/15	SJM	n/a	n/a	VI8195
JB94209-2MSD	I203958.D	1	05/09/15	SJM	n/a	n/a	VI8195
JB94209-2	I203960.D	1	05/09/15	SJM	n/a	n/a	VI8195

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-10, JB94209-11

CAS No.	Compound	JB94209-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	13.0		59.4	53.4	68	59.4	53.6	68	0	10-180/33
71-43-2	Benzene	ND		59.4	50.2	85	59.4	51.3	86	2	48-136/30
74-97-5	Bromochloromethane	ND		59.4	58.5	99	59.4	59.4	100	2	53-137/26
75-27-4	Bromodichloromethane	ND		59.4	57.3	96	59.4	59.1	100	3	50-145/28
75-25-2	Bromoform	ND		59.4	68.3	115	59.4	69.8	118	2	39-148/24
74-83-9	Bromomethane	ND		59.4	60.9	103	59.4	60.5	102	1	12-156/32
78-93-3	2-Butanone (MEK)	ND		59.4	57.8	97	59.4	55.3	93	4	26-164/30
75-15-0	Carbon disulfide	ND		59.4	50.3	85	59.4	47.8	80	5	34-146/31
56-23-5	Carbon tetrachloride	ND		59.4	62.2	105	59.4	61.4	103	1	43-152/31
108-90-7	Chlorobenzene	ND		59.4	50.6	85	59.4	53.8	91	6	38-144/29
75-00-3	Chloroethane	ND		59.4	53.4	90	59.4	49.6	84	7	26-154/34
67-66-3	Chloroform	ND		59.4	53.2	90	59.4	54.4	92	2	52-134/27
74-87-3	Chloromethane	ND		59.4	47.5	80	59.4	44.7	75	6	41-142/28
110-82-7	Cyclohexane	ND		59.4	49.0	83	59.4	47.3	80	4	22-154/33
96-12-8	1,2-Dibromo-3-chloropropane	ND		59.4	52.7	89	59.4	57.3	96	8	29-145/26
124-48-1	Dibromochloromethane	ND		59.4	60.3	102	59.4	64.8	109	7	49-142/24
106-93-4	1,2-Dibromoethane	ND		59.4	57.0	96	59.4	59.0	99	3	46-139/24
95-50-1	1,2-Dichlorobenzene	ND		59.4	45.2	76	59.4	49.6	84	9	30-144/30
541-73-1	1,3-Dichlorobenzene	ND		59.4	42.1	71	59.4	47.7	80	12	28-148/31
106-46-7	1,4-Dichlorobenzene	ND		59.4	40.2	68	59.4	45.2	76	12	30-142/31
75-71-8	Dichlorodifluoromethane	ND		59.4	53.0	89	59.4	53.0	89	0	31-161/28
75-34-3	1,1-Dichloroethane	ND		59.4	49.1	83	59.4	48.9	82	0	54-137/28
107-06-2	1,2-Dichloroethane	ND		59.4	54.3	91	59.4	55.7	94	3	56-140/24
75-35-4	1,1-Dichloroethene	ND		59.4	49.7	84	59.4	47.3	80	5	41-143/30
156-59-2	cis-1,2-Dichloroethene	ND		59.4	51.5	87	59.4	51.2	86	1	45-137/28
156-60-5	trans-1,2-Dichloroethene	ND		59.4	52.4	88	59.4	51.7	87	1	42-141/30
78-87-5	1,2-Dichloropropane	ND		59.4	48.9	82	59.4	50.0	84	2	53-139/27
10061-01-5	cis-1,3-Dichloropropene	ND		59.4	48.5	82	59.4	50.7	85	4	41-144/26
10061-02-6	trans-1,3-Dichloropropene	ND		59.4	48.6	82	59.4	51.1	86	5	36-148/27
100-41-4	Ethylbenzene	ND		59.4	48.7	82	59.4	52.3	88	7	34-145/29
76-13-1	Freon 113	ND		59.4	66.4	112	59.4	63.9	108	4	30-152/29
591-78-6	2-Hexanone	ND		59.4	45.2	76	59.4	44.4	75	2	16-176/32
98-82-8	Isopropylbenzene	ND		59.4	46.5	78	59.4	51.7	87	11	36-145/33
79-20-9	Methyl Acetate	ND		59.4	101	170	59.4	99.8	168	1	26-176/29
108-87-2	Methylcyclohexane	ND		59.4	49.3	83	59.4	48.7	82	1	14-153/33
1634-04-4	Methyl Tert Butyl Ether	ND		59.4	51.3	86	59.4	49.5	83	4	54-129/25

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB94209-2MS	I203957.D	1	05/09/15	SJM	n/a	n/a	VI8195
JB94209-2MSD	I203958.D	1	05/09/15	SJM	n/a	n/a	VI8195
JB94209-2	I203960.D	1	05/09/15	SJM	n/a	n/a	VI8195

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-10, JB94209-11

CAS No.	Compound	JB94209-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		59.4	50.0	84	59.4	49.4	83	1	33-154/29
75-09-2	Methylene chloride	ND		59.4	50.9	86	59.4	50.3	85	1	47-133/25
100-42-5	Styrene	ND		59.4	47.5	80	59.4	50.6	85	6	32-156/31
79-34-5	1,1,2,2-Tetrachloroethane	ND		59.4	49.3	83	59.4	50.6	85	3	31-149/25
127-18-4	Tetrachloroethene	ND		59.4	73.8	124	59.4	84.7	143	14	34-163/31
108-88-3	Toluene	ND		59.4	49.3	83	59.4	50.9	86	3	40-141/30
87-61-6	1,2,3-Trichlorobenzene	ND		59.4	29.6	50	59.4	34.4	58	15	14-153/35
120-82-1	1,2,4-Trichlorobenzene	ND		59.4	27.6	46	59.4	32.9	55	18	14-156/36
71-55-6	1,1,1-Trichloroethane	ND		59.4	58.2	98	59.4	57.2	96	2	48-144/29
79-00-5	1,1,2-Trichloroethane	ND		59.4	54.3	91	59.4	56.4	95	4	43-146/27
79-01-6	Trichloroethene	ND		59.4	55.8	94	59.4	57.2	96	2	42-152/29
75-69-4	Trichlorofluoromethane	ND		59.4	70.1	118	59.4	66.4	112	5	39-153/27
75-01-4	Vinyl chloride	ND		59.4	55.2	93	59.4	53.0	89	4	38-149/29
	m,p-Xylene	ND		119	99.5	84	119	107	90	7	32-148/30
95-47-6	o-Xylene	ND		59.4	49.2	83	59.4	52.6	89	7	36-145/30
1330-20-7	Xylene (total)	ND		178	149	84	178	160	90	7	34-146/29

CAS No.	Surrogate Recoveries	MS	MSD	JB94209-2	Limits
1868-53-7	Dibromofluoromethane	95%	92%	94%	70-122%
17060-07-0	1,2-Dichloroethane-D4	93%	88%	95%	68-124%
2037-26-5	Toluene-D8	94%	96%	97%	77-125%
460-00-4	4-Bromofluorobenzene	97%	97%	92%	72-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB94209-12MS	3C119821.D	1	05/10/15	PS	n/a	n/a	V3C5467
JB94209-12MSD	3C119822.D	1	05/10/15	PS	n/a	n/a	V3C5467
JB94209-12	3C119824.D	1	05/10/15	PS	n/a	n/a	V3C5467

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-12

CAS No.	Compound	JB94209-12 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		60.4	66.9	111	60.4	51.9	86	25	10-180/33
71-43-2	Benzene	ND		60.4	56.8	94	60.4	58.2	96	2	48-136/30
74-97-5	Bromochloromethane	ND		60.4	57.2	95	60.4	58.2	96	2	53-137/26
75-27-4	Bromodichloromethane	ND		60.4	62.1	103	60.4	61.4	102	1	50-145/28
75-25-2	Bromoform	ND		60.4	59.4	98	60.4	58.8	97	1	39-148/24
74-83-9	Bromomethane	ND		60.4	52.7	87	60.4	57.8	96	9	12-156/32
78-93-3	2-Butanone (MEK)	ND		60.4	60.5	100	60.4	51.5	85	16	26-164/30
75-15-0	Carbon disulfide	ND		60.4	53.1	88	60.4	57.6	95	8	34-146/31
56-23-5	Carbon tetrachloride	ND		60.4	59.6	99	60.4	63.5	105	6	43-152/31
108-90-7	Chlorobenzene	ND		60.4	57.3	95	60.4	58.9	98	3	38-144/29
75-00-3	Chloroethane	ND		60.4	55.6	92	60.4	61.9	103	11	26-154/34
67-66-3	Chloroform	ND		60.4	56.0	93	60.4	57.9	96	3	52-134/27
74-87-3	Chloromethane	ND		60.4	55.5	92	60.4	62.2	103	11	41-142/28
110-82-7	Cyclohexane	ND		60.4	57.9	96	60.4	63.3	105	9	22-154/33
96-12-8	1,2-Dibromo-3-chloropropane	ND		60.4	56.6	94	60.4	54.2	90	4	29-145/26
124-48-1	Dibromochloromethane	ND		60.4	57.0	94	60.4	57.0	94	0	49-142/24
106-93-4	1,2-Dibromoethane	ND		60.4	57.0	94	60.4	56.2	93	1	46-139/24
95-50-1	1,2-Dichlorobenzene	ND		60.4	54.5	90	60.4	52.8	87	3	30-144/30
541-73-1	1,3-Dichlorobenzene	ND		60.4	54.2	90	60.4	53.4	88	1	28-148/31
106-46-7	1,4-Dichlorobenzene	ND		60.4	52.3	87	60.4	52.9	88	1	30-142/31
75-71-8	Dichlorodifluoromethane	ND		60.4	57.0	94	60.4	62.3	103	9	31-161/28
75-34-3	1,1-Dichloroethane	ND		60.4	57.3	95	60.4	60.6	100	6	54-137/28
107-06-2	1,2-Dichloroethane	ND		60.4	58.2	96	60.4	57.5	95	1	56-140/24
75-35-4	1,1-Dichloroethene	ND		60.4	56.4	93	60.4	60.4	100	7	41-143/30
156-59-2	cis-1,2-Dichloroethene	ND		60.4	49.7	82	60.4	52.4	87	5	45-137/28
156-60-5	trans-1,2-Dichloroethene	ND		60.4	55.9	93	60.4	59.4	98	6	42-141/30
78-87-5	1,2-Dichloropropane	ND		60.4	58.4	97	60.4	59.1	98	1	53-139/27
10061-01-5	cis-1,3-Dichloropropene	ND		60.4	52.7	87	60.4	52.6	87	0	41-144/26
10061-02-6	trans-1,3-Dichloropropene	ND		60.4	52.3	87	60.4	52.2	86	0	36-148/27
100-41-4	Ethylbenzene	ND		60.4	55.8	92	60.4	58.1	96	4	34-145/29
76-13-1	Freon 113	ND		60.4	54.4	90	60.4	60.2	100	10	30-152/29
591-78-6	2-Hexanone	ND		60.4	70.5	117	60.4	61.2	101	14	16-176/32
98-82-8	Isopropylbenzene	ND		60.4	57.8	96	60.4	53.2	88	8	36-145/33
79-20-9	Methyl Acetate	ND		60.4	52.8	87	60.4	54.8	91	4	26-176/29
108-87-2	Methylcyclohexane	ND		60.4	50.4	83	60.4	53.2	88	5	14-153/33
1634-04-4	Methyl Tert Butyl Ether	ND		60.4	57.5	95	60.4	57.9	96	1	54-129/25

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB94209-12MS	3C119821.D	1	05/10/15	PS	n/a	n/a	V3C5467
JB94209-12MSD	3C119822.D	1	05/10/15	PS	n/a	n/a	V3C5467
JB94209-12	3C119824.D	1	05/10/15	PS	n/a	n/a	V3C5467

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-12

CAS No.	Compound	JB94209-12 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		60.4	68.0	113	60.4	56.6	94	18	33-154/29
75-09-2	Methylene chloride	ND		60.4	54.0	89	60.4	57.2	95	6	47-133/25
100-42-5	Styrene	ND		60.4	58.8	97	60.4	60.7	101	3	32-156/31
79-34-5	1,1,2,2-Tetrachloroethane	ND		60.4	57.3	95	60.4	48.3	80	17	31-149/25
127-18-4	Tetrachloroethene	ND		60.4	54.6	90	60.4	55.5	92	2	34-163/31
108-88-3	Toluene	ND		60.4	55.7	92	60.4	56.8	94	2	40-141/30
87-61-6	1,2,3-Trichlorobenzene	ND		60.4	51.9	86	60.4	47.8	79	8	14-153/35
120-82-1	1,2,4-Trichlorobenzene	ND		60.4	51.0	84	60.4	48.8	81	4	14-156/36
71-55-6	1,1,1-Trichloroethane	ND		60.4	59.1	98	60.4	64.2	106	8	48-144/29
79-00-5	1,1,2-Trichloroethane	ND		60.4	61.4	102	60.4	60.5	100	1	43-146/27
79-01-6	Trichloroethene	ND		60.4	55.7	92	60.4	57.8	96	4	42-152/29
75-69-4	Trichlorofluoromethane	ND		60.4	56.9	94	60.4	61.6	102	8	39-153/27
75-01-4	Vinyl chloride	ND		60.4	56.4	93	60.4	62.1	103	10	38-149/29
	m,p-Xylene	ND		121	108	89	121	112	93	4	32-148/30
95-47-6	o-Xylene	ND		60.4	56.6	94	60.4	57.0	94	1	36-145/30
1330-20-7	Xylene (total)	ND		181	165	91	181	169	93	2	34-146/29

CAS No.	Surrogate Recoveries	MS	MSD	JB94209-12	Limits
1868-53-7	Dibromofluoromethane	101%	99%	101%	70-122%
17060-07-0	1,2-Dichloroethane-D4	110%	103%	107%	68-124%
2037-26-5	Toluene-D8	103%	102%	104%	77-125%
460-00-4	4-Bromofluorobenzene	102%	94%	97%	72-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB94209-9MS	I203991.D	1	05/11/15	SJM	n/a	n/a	VI8196
JB94209-9MSD	I203992.D	1	05/11/15	SJM	n/a	n/a	VI8196
JB94209-9	I203988.D	1	05/11/15	SJM	n/a	n/a	VI8196

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-9

CAS No.	Compound	JB94209-9 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		53.8	31.5	59	53.8	43.2	80	31	10-180/33
71-43-2	Benzene	ND		53.8	28.9	54	53.8	33.1	62	14	48-136/30
74-97-5	Bromochloromethane	ND		53.8	31.7	59	53.8	36.3	68	14	53-137/26
75-27-4	Bromodichloromethane	ND		53.8	26.0	48* [a]	53.8	29.8	55	14	50-145/28
75-25-2	Bromoform	ND		53.8	22.1	41	53.8	27.3	51	21	39-148/24
74-83-9	Bromomethane	ND		53.8	38.3	71	53.8	39.7	74	4	12-156/32
78-93-3	2-Butanone (MEK)	ND		53.8	36.6	68	53.8	38.7	72	6	26-164/30
75-15-0	Carbon disulfide	ND		53.8	26.9	50	53.8	30.2	56	12	34-146/31
56-23-5	Carbon tetrachloride	ND		53.8	38.8	72	53.8	41.0	76	6	43-152/31
108-90-7	Chlorobenzene	ND		53.8	15.6	29* [a]	53.8	19.2	36* [a]	21	38-144/29
75-00-3	Chloroethane	ND		53.8	37.5	70	53.8	40.4	75	7	26-154/34
67-66-3	Chloroform	ND		53.8	30.2	56	53.8	35.4	66	16	52-134/27
74-87-3	Chloromethane	ND		53.8	27.9	52	53.8	41.9	78	40* [a]	41-142/28
110-82-7	Cyclohexane	ND		53.8	32.2	60	53.8	33.6	62	4	22-154/33
96-12-8	1,2-Dibromo-3-chloropropane	ND		53.8	19.3	36	53.8	22.4	42	15	29-145/26
124-48-1	Dibromochloromethane	ND		53.8	23.9	44* [a]	53.8	28.2	52	17	49-142/24
106-93-4	1,2-Dibromoethane	ND		53.8	21.4	40* [a]	53.8	26.7	50	22	46-139/24
95-50-1	1,2-Dichlorobenzene	ND		53.8	8.0	15* [a]	53.8	10.5	20* [a]	27	30-144/30
541-73-1	1,3-Dichlorobenzene	ND		53.8	8.1	15* [a]	53.8	10.4	19* [a]	25	28-148/31
106-46-7	1,4-Dichlorobenzene	ND		53.8	6.5	12* [a]	53.8	9.1	17* [a]	33* [a]	30-142/31
75-71-8	Dichlorodifluoromethane	ND		53.8	42.2	78	53.8	47.4	88	12	31-161/28
75-34-3	1,1-Dichloroethane	ND		53.8	31.9	59	53.8	36.4	68	13	54-137/28
107-06-2	1,2-Dichloroethane	ND		53.8	26.1	49* [a]	53.8	30.2	56	15	56-140/24
75-35-4	1,1-Dichloroethene	ND		53.8	32.5	60	53.8	36.5	68	12	41-143/30
156-59-2	cis-1,2-Dichloroethene	ND		53.8	27.1	50	53.8	31.4	58	15	45-137/28
156-60-5	trans-1,2-Dichloroethene	ND		53.8	28.6	53	53.8	32.5	60	13	42-141/30
78-87-5	1,2-Dichloropropane	ND		53.8	28.0	52* [a]	53.8	32.0	60	13	53-139/27
10061-01-5	cis-1,3-Dichloropropene	ND		53.8	19.9	37* [a]	53.8	23.2	43	15	41-144/26
10061-02-6	trans-1,3-Dichloropropene	ND		53.8	16.0	30* [a]	53.8	18.8	35* [a]	16	36-148/27
100-41-4	Ethylbenzene	0.42	J	53.8	21.1	38	53.8	23.1	42	9	34-145/29
76-13-1	Freon 113	ND		53.8	48.3	90	53.8	52.3	97	8	30-152/29
591-78-6	2-Hexanone	ND		53.8	25.2	47	53.8	28.2	52	11	16-176/32
98-82-8	Isopropylbenzene	ND		53.8	22.9	43	53.8	22.6	42	1	36-145/33
79-20-9	Methyl Acetate	ND		53.8	67.7	126	53.8	88.0	164	26	26-176/29
108-87-2	Methylcyclohexane	ND		53.8	27.2	51	53.8	27.5	51	1	14-153/33
1634-04-4	Methyl Tert Butyl Ether	ND		53.8	37.3	69	53.8	41.8	78	11	54-129/25

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB94209-9MS	I203991.D	1	05/11/15	SJM	n/a	n/a	VI8196
JB94209-9MSD	I203992.D	1	05/11/15	SJM	n/a	n/a	VI8196
JB94209-9	I203988.D	1	05/11/15	SJM	n/a	n/a	VI8196

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-9

CAS No.	Compound	JB94209-9 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		53.8	30.1	56	53.8	35.6	66	17	33-154/29
75-09-2	Methylene chloride	1.8	J	53.8	33.0	58	53.8	37.8	67	14	47-133/25
100-42-5	Styrene	ND		53.8	11.2	21* [a]	53.8	14.4	27* [a]	25	32-156/31
79-34-5	1,1,2,2-Tetrachloroethane	ND		53.8	23.3	43	53.8	25.7	48	10	31-149/25
127-18-4	Tetrachloroethene	0.78	J	53.8	27.8	50	53.8	29.3	53	5	34-163/31
108-88-3	Toluene	0.62	J	53.8	24.0	43	53.8	26.9	49	11	40-141/30
87-61-6	1,2,3-Trichlorobenzene	ND		53.8	3.7	7* [a]	53.8	4.9	9* [a]	28	14-153/35
120-82-1	1,2,4-Trichlorobenzene	ND		53.8	3.7	7* [a]	53.8	4.7	9* [a]	24	14-156/36
71-55-6	1,1,1-Trichloroethane	ND		53.8	38.0	71	53.8	40.7	76	7	48-144/29
79-00-5	1,1,2-Trichloroethane	ND		53.8	26.3	49	53.8	30.5	57	15	43-146/27
79-01-6	Trichloroethene	ND		53.8	27.6	51	53.8	30.4	57	10	42-152/29
75-69-4	Trichlorofluoromethane	ND		53.8	48.1	89	53.8	51.2	95	6	39-153/27
75-01-4	Vinyl chloride	ND		53.8	39.1	73	53.8	46.5	86	17	38-149/29
	m,p-Xylene	2.3		108	41.3	36	108	46.2	41	11	32-148/30
95-47-6	o-Xylene	0.73	J	53.8	19.1	34* [a]	53.8	21.6	39	12	36-145/30
1330-20-7	Xylene (total)	3.1		161	60.4	36	161	67.8	40	12	34-146/29

CAS No.	Surrogate Recoveries	MS	MSD	JB94209-9	Limits
1868-53-7	Dibromofluoromethane	94%	96%	103%	70-122%
17060-07-0	1,2-Dichloroethane-D4	82%	84%	99%	68-124%
2037-26-5	Toluene-D8	96%	94%	99%	77-125%
460-00-4	4-Bromofluorobenzene	106%	105%	107%	72-130%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB94209-18MS	I204007.D	1	05/12/15	SJM	n/a	n/a	VI8197
JB94209-18MSD	I204008.D	1	05/12/15	SJM	n/a	n/a	VI8197
JB94209-18	I204010.D	1	05/12/15	SJM	n/a	n/a	VI8197

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-18

CAS No.	Compound	JB94209-18 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	11.0	J	62.6	64.9	86	62.6	62.8	83	3	10-180/33
71-43-2	Benzene	ND		62.6	45.0	72	62.6	47.8	76	6	48-136/30
74-97-5	Bromochloromethane	ND		62.6	48.2	77	62.6	50.2	80	4	53-137/26
75-27-4	Bromodichloromethane	ND		62.6	44.5	71	62.6	49.6	79	11	50-145/28
75-25-2	Bromoform	ND		62.6	41.1	66	62.6	51.2	82	22	39-148/24
74-83-9	Bromomethane	ND		62.6	55.7	89	62.6	58.0	93	4	12-156/32
78-93-3	2-Butanone (MEK)	ND		62.6	51.6	82	62.6	50.1	80	3	26-164/30
75-15-0	Carbon disulfide	ND		62.6	40.5	65	62.6	42.8	68	6	34-146/31
56-23-5	Carbon tetrachloride	ND		62.6	57.0	91	62.6	59.4	95	4	43-152/31
108-90-7	Chlorobenzene	ND		62.6	33.7	54	62.6	38.8	62	14	38-144/29
75-00-3	Chloroethane	ND		62.6	55.9	89	62.6	58.8	94	5	26-154/34
67-66-3	Chloroform	ND		62.6	49.9	80	62.6	51.7	83	4	52-134/27
74-87-3	Chloromethane	ND		62.6	50.7	81	62.6	52.6	84	4	41-142/28
110-82-7	Cyclohexane	ND		62.6	48.2	77	62.6	48.4	77	0	22-154/33
96-12-8	1,2-Dibromo-3-chloropropane	ND		62.6	32.4	52	62.6	40.0	64	21	29-145/26
124-48-1	Dibromochloromethane	ND		62.6	41.6	66	62.6	49.0	78	16	49-142/24
106-93-4	1,2-Dibromoethane	ND		62.6	37.1	59	62.6	44.0	70	17	46-139/24
95-50-1	1,2-Dichlorobenzene	ND		62.6	21.1	34	62.6	26.9	43	24	30-144/30
541-73-1	1,3-Dichlorobenzene	ND		62.6	21.4	34	62.6	27.0	43	23	28-148/31
106-46-7	1,4-Dichlorobenzene	ND		62.6	18.5	30	62.6	24.3	39	27	30-142/31
75-71-8	Dichlorodifluoromethane	ND		62.6	59.9	96	62.6	59.8	96	0	31-161/28
75-34-3	1,1-Dichloroethane	ND		62.6	49.2	79	62.6	50.2	80	2	54-137/28
107-06-2	1,2-Dichloroethane	ND		62.6	42.4	68	62.6	46.1	74	8	56-140/24
75-35-4	1,1-Dichloroethene	ND		62.6	49.7	79	62.6	50.5	81	2	41-143/30
156-59-2	cis-1,2-Dichloroethene	ND		62.6	42.5	68	62.6	45.1	72	6	45-137/28
156-60-5	trans-1,2-Dichloroethene	ND		62.6	41.4	66	62.6	44.3	71	7	42-141/30
78-87-5	1,2-Dichloropropane	ND		62.6	44.1	70	62.6	47.4	76	7	53-139/27
10061-01-5	cis-1,3-Dichloropropene	ND		62.6	33.9	54	62.6	38.1	61	12	41-144/26
10061-02-6	trans-1,3-Dichloropropene	ND		62.6	29.0	46	62.6	34.3	55	17	36-148/27
100-41-4	Ethylbenzene	0.26	J	62.6	36.4	58	62.6	38.9	62	7	34-145/29
76-13-1	Freon 113	ND		62.6	67.6	108	62.6	68.9	110	2	30-152/29
591-78-6	2-Hexanone	ND		62.6	36.9	59	62.6	42.3	68	14	16-176/32
98-82-8	Isopropylbenzene	ND		62.6	34.4	55	62.6	35.7	57	4	36-145/33
79-20-9	Methyl Acetate	ND		62.6	109	174	62.6	129	206* [a]	17	26-176/29
108-87-2	Methylcyclohexane	ND		62.6	40.7	65	62.6	42.2	67	4	14-153/33
1634-04-4	Methyl Tert Butyl Ether	ND		62.6	50.7	81	62.6	54.2	87	7	54-129/25

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB94209-18MS	I204007.D	1	05/12/15	SJM	n/a	n/a	VI8197
JB94209-18MSD	I204008.D	1	05/12/15	SJM	n/a	n/a	VI8197
JB94209-18	I204010.D	1	05/12/15	SJM	n/a	n/a	VI8197

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB94209-18

CAS No.	Compound	JB94209-18 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		62.6	42.8	68	62.6	48.0	77	11	33-154/29
75-09-2	Methylene chloride	1.6	J	62.6	46.1	71	62.6	49.3	76	7	47-133/25
100-42-5	Styrene	ND		62.6	27.4	44	62.6	32.8	52	18	32-156/31
79-34-5	1,1,2,2-Tetrachloroethane	ND		62.6	35.9	57	62.6	41.7	67	15	31-149/25
127-18-4	Tetrachloroethene	ND		62.6	53.3	85	62.6	56.2	90	5	34-163/31
108-88-3	Toluene	0.34	J	62.6	41.7	66	62.6	43.9	70	5	40-141/30
87-61-6	1,2,3-Trichlorobenzene	ND		62.6	9.5	15	62.6	11.9	19	22	14-153/35
120-82-1	1,2,4-Trichlorobenzene	ND		62.6	9.4	15	62.6	11.9	19	23	14-156/36
71-55-6	1,1,1-Trichloroethane	ND		62.6	56.2	90	62.6	57.1	91	2	48-144/29
79-00-5	1,1,2-Trichloroethane	ND		62.6	45.4	73	62.6	50.1	80	10	43-146/27
79-01-6	Trichloroethene	ND		62.6	44.7	71	62.6	47.9	77	7	42-152/29
75-69-4	Trichlorofluoromethane	ND		62.6	71.6	114	62.6	72.7	116	2	39-153/27
75-01-4	Vinyl chloride	ND		62.6	57.1	91	62.6	59.1	94	3	38-149/29
	m,p-Xylene	1.2	J	125	73.9	58	125	78.5	62	6	32-148/30
95-47-6	o-Xylene	0.38	J	62.6	35.0	55	62.6	38.2	60	9	36-145/30
1330-20-7	Xylene (total)	1.6		188	109	57	188	117	61	7	34-146/29

CAS No.	Surrogate Recoveries	MS	MSD	JB94209-18	Limits
1868-53-7	Dibromofluoromethane	101%	101%	97%	70-122%
17060-07-0	1,2-Dichloroethane-D4	87%	90%	92%	68-124%
2037-26-5	Toluene-D8	91%	90%	96%	77-125%
460-00-4	4-Bromofluorobenzene	99%	99%	95%	72-130%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: V2D6039-BFB
Lab File ID: 2D143781.D
Instrument ID: GCMS2D
Injection Date: 04/21/15
Injection Time: 15:36

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	15058	17.7		Pass
75	30.0 - 60.0% of mass 95	39520	46.4		Pass
95	Base peak, 100% relative abundance	85160	100.0		Pass
96	5.0 - 9.0% of mass 95	5628	6.61		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	88221	103.6		Pass
175	5.0 - 9.0% of mass 174	6754	7.93	(7.66) [a]	Pass
176	95.0 - 101.0% of mass 174	86842	102.0	(98.4) [a]	Pass
177	5.0 - 9.0% of mass 176	5795	6.80	(6.67) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2D6039-IC6039	2D143782.D	04/21/15	16:07	00:31	Initial cal 0.2
V2D6039-IC6039	2D143783.D	04/21/15	16:38	01:02	Initial cal 0.5
V2D6039-IC6039	2D143784.D	04/21/15	17:10	01:34	Initial cal 1
V2D6039-IC6039	2D143785.D	04/21/15	17:41	02:05	Initial cal 2
V2D6039-IC6039	2D143786.D	04/21/15	18:12	02:36	Initial cal 5
V2D6039-IC6039	2D143787.D	04/21/15	18:43	03:07	Initial cal 10
V2D6039-IC6039	2D143788.D	04/21/15	19:14	03:38	Initial cal 20
V2D6039-ICC6039	2D143789.D	04/21/15	19:45	04:09	Initial cal 50
V2D6039-IC6039	2D143790.D	04/21/15	20:16	04:40	Initial cal 100
V2D6039-IC6039	2D143791.D	04/21/15	20:48	05:12	Initial cal 200
V2D6039-ICV6039	2D143794.D	04/21/15	22:21	06:45	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: V2D6061-BFB
Lab File ID: 2D144311.D
Instrument ID: GCMS2D
Injection Date: 05/08/15
Injection Time: 10:15

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	14855	15.7		Pass
75	30.0 - 60.0% of mass 95	40880	43.2		Pass
95	Base peak, 100% relative abundance	94555	100.0		Pass
96	5.0 - 9.0% of mass 95	6173	6.53		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	104992	111.0		Pass
175	5.0 - 9.0% of mass 174	7944	8.40	(7.57) [a]	Pass
176	95.0 - 101.0% of mass 174	102272	108.2	(97.4) [a]	Pass
177	5.0 - 9.0% of mass 176	6477	6.85	(6.33) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2D6061-CC6039	2D144312.D	05/08/15	10:52	00:37	Continuing cal 20
V2D6061-MB	2D144314.D	05/08/15	12:01	01:46	Method Blank
V2D6061-BS	2D144315.D	05/08/15	12:38	02:23	Blank Spike
ZZZZZZ	2D144317.D	05/08/15	13:58	03:43	(unrelated sample)
JB94104-3	2D144318.D	05/08/15	14:29	04:14	(used for QC only; not part of job JB94209)
ZZZZZZ	2D144319.D	05/08/15	15:00	04:45	(unrelated sample)
ZZZZZZ	2D144320.D	05/08/15	15:31	05:16	(unrelated sample)
ZZZZZZ	2D144321.D	05/08/15	16:02	05:47	(unrelated sample)
JB94104-3MS	2D144323.D	05/08/15	17:04	06:49	Matrix Spike
JB94104-3MSD	2D144324.D	05/08/15	17:35	07:20	Matrix Spike Duplicate
JB94209-13	2D144326.D	05/08/15	18:37	08:22	TW-1
JB94209-14	2D144327.D	05/08/15	19:08	08:53	TW-2
JB94209-15	2D144328.D	05/08/15	19:39	09:24	TW-3
JB94209-16	2D144329.D	05/08/15	20:09	09:54	TW2-DUP
ZZZZZZ	2D144330.D	05/08/15	20:40	10:25	(unrelated sample)
ZZZZZZ	2D144331.D	05/08/15	21:11	10:56	(unrelated sample)
ZZZZZZ	2D144332.D	05/08/15	21:42	11:27	(unrelated sample)
ZZZZZZ	2D144333.D	05/08/15	22:13	11:58	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: V3C5457-BFB
Lab File ID: 3C119615.D
Instrument ID: GCMS3C
Injection Date: 04/29/15
Injection Time: 17:22

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	10660	16.5		Pass
75	30.0 - 60.0% of mass 95	30480	47.3		Pass
95	Base peak, 100% relative abundance	64485	100.0		Pass
96	5.0 - 9.0% of mass 95	4435	6.88		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	60389	93.6		Pass
175	5.0 - 9.0% of mass 174	4461	6.92	(7.39) [a]	Pass
176	95.0 - 101.0% of mass 174	57557	89.3	(95.3) [a]	Pass
177	5.0 - 9.0% of mass 176	3953	6.13	(6.87) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3C5457-IC5457	3C119616.D	04/29/15	17:57	00:35	Initial cal 0.2
V3C5457-IC5457	3C119617.D	04/29/15	18:25	01:03	Initial cal 0.5
V3C5457-IC5457	3C119618.D	04/29/15	18:53	01:31	Initial cal 1
V3C5457-IC5457	3C119619.D	04/29/15	19:21	01:59	Initial cal 2
V3C5457-IC5457	3C119620.D	04/29/15	19:48	02:26	Initial cal 4
V3C5457-IC5457	3C119621.D	04/29/15	20:16	02:54	Initial cal 8
V3C5457-IC5457	3C119622.D	04/29/15	20:44	03:22	Initial cal 20
V3C5457-ICC5457	3C119623.D	04/29/15	21:12	03:50	Initial cal 50
V3C5457-IC5457	3C119624.D	04/29/15	21:40	04:18	Initial cal 100
V3C5457-IC5457	3C119625.D	04/29/15	22:08	04:46	Initial cal 200
V3C5457-ICV5457	3C119628.D	04/29/15	23:31	06:09	Initial cal verification 50
V3C5458-CC4586	3C119630.D	04/30/15	09:23	16:01	Continuing cal 50
V3C5458-MB	3C119631.D	04/30/15	09:48	16:26	Method Blank
V3C5458-BS	3C119632.D	04/30/15	10:19	16:57	Blank Spike
JB93581-2	3C119633.D	04/30/15	10:59	17:37	(used for QC only; not part of job JB94209)
ZZZZZZ	3C119634.D	04/30/15	11:23	18:01	(unrelated sample)
ZZZZZZ	3C119637.D	04/30/15	12:39	19:17	(unrelated sample)
ZZZZZZ	3C119638.D	04/30/15	13:04	19:42	(unrelated sample)
ZZZZZZ	3C119639.D	04/30/15	13:29	20:07	(unrelated sample)
JB93589-5	3C119641.D	04/30/15	14:19	20:57	(used for QC only; not part of job JB94209)
JB93589-5MS	3C119642.D	04/30/15	14:44	21:22	Matrix Spike
JB93589-5MSD	3C119643.D	04/30/15	15:09	21:47	Matrix Spike Duplicate
ZZZZZZ	3C119644.D	04/30/15	15:35	22:13	(unrelated sample)
ZZZZZZ	3C119646.D	04/30/15	16:25	23:03	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: V3C5467-BFB
Lab File ID: 3C119817A.D
Instrument ID: GCMS3C
Injection Date: 05/10/15
Injection Time: 10:41

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	13797	17.3		Pass
75	30.0 - 60.0% of mass 95	40026	50.3		Pass
95	Base peak, 100% relative abundance	79581	100.0		Pass
96	5.0 - 9.0% of mass 95	5033	6.32		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	75021	94.3		Pass
175	5.0 - 9.0% of mass 174	5565	6.99	(7.42) [a]	Pass
176	95.0 - 101.0% of mass 174	72298	90.8	(96.4) [a]	Pass
177	5.0 - 9.0% of mass 176	4710	5.92	(6.51) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3C5467-CC5457	3C119817.D	05/10/15	10:41	00:00	Continuing cal 20
V3C5467-MB	3C119819.D	05/10/15	11:44	01:03	Method Blank
V3C5467-BS	3C119820.D	05/10/15	12:12	01:31	Blank Spike
JB94209-12MS	3C119821.D	05/10/15	12:50	02:09	Matrix Spike
JB94209-12MSD	3C119822.D	05/10/15	13:18	02:37	Matrix Spike Duplicate
JB94209-12	3C119824.D	05/10/15	14:13	03:32	SB6-2
ZZZZZZ	3C119825.D	05/10/15	14:41	04:00	(unrelated sample)
ZZZZZZ	3C119830.D	05/10/15	17:41	07:00	(unrelated sample)
ZZZZZZ	3C119831.D	05/10/15	18:08	07:27	(unrelated sample)
ZZZZZZ	3C119833.D	05/10/15	19:03	08:22	(unrelated sample)
ZZZZZZ	3C119834.D	05/10/15	19:31	08:50	(unrelated sample)
ZZZZZZ	3C119835.D	05/10/15	19:59	09:18	(unrelated sample)
ZZZZZZ	3C119836.D	05/10/15	20:26	09:45	(unrelated sample)
ZZZZZZ	3C119837.D	05/10/15	20:54	10:13	(unrelated sample)
ZZZZZZ	3C119840.D	05/10/15	22:17	11:36	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: VI8156-BFB
Lab File ID: I202962.D
Instrument ID: GCMSI
Injection Date: 04/07/15
Injection Time: 12:40

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	19952	20.3		Pass
75	30.0 - 60.0% of mass 95	47850	48.6		Pass
95	Base peak, 100% relative abundance	98525	100.0		Pass
96	5.0 - 9.0% of mass 95	6268	6.36		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	77613	78.8		Pass
175	5.0 - 9.0% of mass 174	6784	6.89	(8.74) [a]	Pass
176	95.0 - 101.0% of mass 174	74074	75.2	(95.4) [a]	Pass
177	5.0 - 9.0% of mass 176	4880	4.95	(6.59) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VI8156-IC8156	I202963.D	04/07/15	14:05	01:25	Initial cal 0.2
VI8156-IC8156	I202964.D	04/07/15	14:34	01:54	Initial cal 0.5
VI8156-IC8156	I202965.D	04/07/15	15:03	02:23	Initial cal 1
VI8156-IC8156	I202966.D	04/07/15	15:33	02:53	Initial cal 2
VI8156-IC8156	I202967.D	04/07/15	16:01	03:21	Initial cal 5
VI8156-IC8156	I202968.D	04/07/15	16:30	03:50	Initial cal 10
VI8156-IC8156	I202969.D	04/07/15	16:59	04:19	Initial cal 20
VI8156-ICC8156	I202970.D	04/07/15	17:28	04:48	Initial cal 50
VI8156-IC8156	I202971.D	04/07/15	17:56	05:16	Initial cal 100
VI8156-IC8156	I202972.D	04/07/15	18:25	05:45	Initial cal 200
VI8156-ICV8156	I202974.D	04/07/15	19:51	07:11	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: VI8194-BFB
Lab File ID: I203929.D
Instrument ID: GCMSI
Injection Date: 05/08/15
Injection Time: 08:59

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	13001	18.3		Pass
75	30.0 - 60.0% of mass 95	33608	47.3		Pass
95	Base peak, 100% relative abundance	71002	100.0		Pass
96	5.0 - 9.0% of mass 95	4833	6.81		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	63112	88.9		Pass
175	5.0 - 9.0% of mass 174	3406	4.80	(5.40) [a]	Pass
176	95.0 - 101.0% of mass 174	61610	86.8	(97.6) [a]	Pass
177	5.0 - 9.0% of mass 176	3966	5.59	(6.44) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VI8194-CC8156	I203930.D	05/08/15	09:39	00:40	Continuing cal 50
VI8194-MB1	I203932.D	05/08/15	11:21	02:22	Method Blank
ZZZZZZ	I203932A.D	05/08/15	11:21	02:22	(unrelated sample)
VI8194-BS	I203933.D	05/08/15	11:55	02:56	Blank Spike
JB94209-1MS	I203934.D	05/08/15	12:32	03:33	Matrix Spike
JB94209-1MSD	I203935.D	05/08/15	13:00	04:01	Matrix Spike Duplicate
JB94209-1	I203937.D	05/08/15	13:57	04:58	SB1-1
ZZZZZZ	I203938.D	05/08/15	14:25	05:26	(unrelated sample)
ZZZZZZ	I203939.D	05/08/15	14:54	05:55	(unrelated sample)
ZZZZZZ	I203940.D	05/08/15	15:22	06:23	(unrelated sample)
ZZZZZZ	I203941.D	05/08/15	15:50	06:51	(unrelated sample)
ZZZZZZ	I203942.D	05/08/15	16:19	07:20	(unrelated sample)
ZZZZZZ	I203943.D	05/08/15	16:47	07:48	(unrelated sample)
ZZZZZZ	I203944.D	05/08/15	17:15	08:16	(unrelated sample)
ZZZZZZ	I203945.D	05/08/15	17:43	08:44	(unrelated sample)
ZZZZZZ	I203946.D	05/08/15	18:12	09:13	(unrelated sample)
ZZZZZZ	I203947.D	05/08/15	18:40	09:41	(unrelated sample)
ZZZZZZ	I203948.D	05/08/15	19:08	10:09	(unrelated sample)
ZZZZZZ	I203949.D	05/08/15	19:36	10:37	(unrelated sample)
ZZZZZZ	I203950.D	05/08/15	20:05	11:06	(unrelated sample)
ZZZZZZ	I203951.D	05/08/15	20:33	11:34	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: VI8195-BFB
Lab File ID: I203952A.D
Instrument ID: GCMSI
Injection Date: 05/09/15
Injection Time: 00:48

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	14413	19.1		Pass
75	30.0 - 60.0% of mass 95	36541	48.4		Pass
95	Base peak, 100% relative abundance	75490	100.0		Pass
96	5.0 - 9.0% of mass 95	4944	6.55		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	62882	83.3		Pass
175	5.0 - 9.0% of mass 174	5250	6.95	(8.35) [a]	Pass
176	95.0 - 101.0% of mass 174	60301	79.9	(95.9) [a]	Pass
177	5.0 - 9.0% of mass 176	4413	5.85	(7.32) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VI8195-CC8156	I203953A.D	05/09/15	01:16	00:28	Continuing cal 20
VI8195-MB1	I203955.D	05/09/15	02:27	01:39	Method Blank
VI8195-BS	I203956.D	05/09/15	02:55	02:07	Blank Spike
JB94209-2MS	I203957.D	05/09/15	03:24	02:36	Matrix Spike
JB94209-2MSD	I203958.D	05/09/15	03:52	03:04	Matrix Spike Duplicate
JB94209-2	I203960.D	05/09/15	04:48	04:00	SB1-2
JB94209-3	I203961.D	05/09/15	05:17	04:29	SB2-1
JB94209-4	I203962.D	05/09/15	05:45	04:57	SB2-2
JB94209-5	I203963.D	05/09/15	06:13	05:25	SB3-1
JB94209-6	I203964.D	05/09/15	06:42	05:54	SB3-2
JB94209-7	I203965.D	05/09/15	07:10	06:22	SB4-1
JB94209-8	I203966.D	05/09/15	07:38	06:50	SB4-2
JB94209-10	I203968.D	05/09/15	08:34	07:46	SB5-2
JB94209-11	I203969.D	05/09/15	09:02	08:14	SB6-1
ZZZZZZ	I203970.D	05/09/15	09:30	08:42	(unrelated sample)
ZZZZZZ	I203971.D	05/09/15	09:57	09:09	(unrelated sample)
ZZZZZZ	I203972.D	05/09/15	10:25	09:37	(unrelated sample)
ZZZZZZ	I203973.D	05/09/15	10:53	10:05	(unrelated sample)
ZZZZZZ	I203974.D	05/09/15	11:21	10:33	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: VI8196-BFB
Lab File ID: I203978.D
Instrument ID: GCMSI
Injection Date: 05/11/15
Injection Time: 09:14

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	18172	18.1		Pass
75	30.0 - 60.0% of mass 95	46997	46.8		Pass
95	Base peak, 100% relative abundance	100458	100.0		Pass
96	5.0 - 9.0% of mass 95	6840	6.81		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	84610	84.2		Pass
175	5.0 - 9.0% of mass 174	6640	6.61	(7.85) [a]	Pass
176	95.0 - 101.0% of mass 174	82330	82.0	(97.3) [a]	Pass
177	5.0 - 9.0% of mass 176	5712	5.69	(6.94) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VI8196-CC8156	I203980.D	05/11/15	10:35	01:21	Continuing cal 50
VI8196-MB1	I203982.D	05/11/15	12:03	02:49	Method Blank
ZZZZZZ	I203982A.D	05/11/15	12:03	02:49	(unrelated sample)
VI8196-BS	I203983.D	05/11/15	12:41	03:27	Blank Spike
ZZZZZZ	I203985.D	05/11/15	13:52	04:38	(unrelated sample)
ZZZZZZ	I203986.D	05/11/15	14:21	05:07	(unrelated sample)
ZZZZZZ	I203987.D	05/11/15	14:49	05:35	(unrelated sample)
JB94209-9	I203988.D	05/11/15	15:22	06:08	SB5-1
ZZZZZZ	I203989.D	05/11/15	15:51	06:37	(unrelated sample)
ZZZZZZ	I203990.D	05/11/15	16:19	07:05	(unrelated sample)
JB94209-9MS	I203991.D	05/11/15	16:47	07:33	Matrix Spike
JB94209-9MSD	I203992.D	05/11/15	17:16	08:02	Matrix Spike Duplicate
ZZZZZZ	I203994.D	05/11/15	18:12	08:58	(unrelated sample)
ZZZZZZ	I203995.D	05/11/15	18:41	09:27	(unrelated sample)
ZZZZZZ	I203996.D	05/11/15	19:09	09:55	(unrelated sample)
ZZZZZZ	I203997.D	05/11/15	19:37	10:23	(unrelated sample)
ZZZZZZ	I203998.D	05/11/15	20:05	10:51	(unrelated sample)
ZZZZZZ	I203999.D	05/11/15	20:34	11:20	(unrelated sample)
ZZZZZZ	I204000.D	05/11/15	21:02	11:48	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: VI8197-BFB
Lab File ID: I204002.D
Instrument ID: GCMSI
Injection Date: 05/11/15
Injection Time: 21:58

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	17542	17.0		Pass
75	30.0 - 60.0% of mass 95	46709	45.2		Pass
95	Base peak, 100% relative abundance	103272	100.0		Pass
96	5.0 - 9.0% of mass 95	6797	6.58		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	94874	91.9		Pass
175	5.0 - 9.0% of mass 174	7539	7.30	(7.95) [a]	Pass
176	95.0 - 101.0% of mass 174	91538	88.6	(96.5) [a]	Pass
177	5.0 - 9.0% of mass 176	6095	5.90	(6.66) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VI8197-CC8156	I204003.D	05/11/15	22:27	00:29	Continuing cal 20
VI8197-MB1	I204005.D	05/12/15	00:44	02:46	Method Blank
VI8197-BS	I204006.D	05/12/15	01:13	03:15	Blank Spike
JB94209-18MS	I204007.D	05/12/15	01:41	03:43	Matrix Spike
JB94209-18MSD	I204008.D	05/12/15	02:09	04:11	Matrix Spike Duplicate
JB94209-18	I204010.D	05/12/15	03:06	05:08	SB5-2 DUP
ZZZZZZ	I204011.D	05/12/15	03:34	05:36	(unrelated sample)
ZZZZZZ	I204012.D	05/12/15	04:02	06:04	(unrelated sample)
ZZZZZZ	I204014.D	05/12/15	04:59	07:01	(unrelated sample)
ZZZZZZ	I204015.D	05/12/15	05:27	07:29	(unrelated sample)
ZZZZZZ	I204016.D	05/12/15	05:55	07:57	(unrelated sample)
ZZZZZZ	I204017.D	05/12/15	06:23	08:25	(unrelated sample)
ZZZZZZ	I204018.D	05/12/15	06:52	08:54	(unrelated sample)
ZZZZZZ	I204019.D	05/12/15	07:20	09:22	(unrelated sample)
ZZZZZZ	I204020.D	05/12/15	07:48	09:50	(unrelated sample)
ZZZZZZ	I204021.D	05/12/15	08:18	10:20	(unrelated sample)
ZZZZZZ	I204022.D	05/12/15	08:47	10:49	(unrelated sample)
ZZZZZZ	I204023.D	05/12/15	09:15	11:17	(unrelated sample)

Volatile Internal Standard Area Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	V2D6061-CC6039	**Injection Date:**	05/08/15
Lab File ID:	2D144312.D	**Injection Time:**	10:52
Instrument ID:	GCMS2D	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	84364	7.56	342039	10.30	384521	11.46	354689	15.66	212213	18.42
Upper Limit [a]	168728	8.06	684078	10.80	769042	11.96	709378	16.16	424426	18.92
Lower Limit [b]	42182	7.06	171020	9.80	192261	10.96	177345	15.16	106107	17.92

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V2D6061-MB	79453	7.56	335374	10.31	369947	11.46	340128	15.66	211007	18.42
V2D6061-BS	82568	7.56	320704	10.30	362442	11.46	336293	15.66	203299	18.42
ZZZZZZ	87689	7.55	342912	10.30	380705	11.46	341479	15.66	208469	18.42
JB94104-3	90743	7.56	333070	10.31	367615	11.47	338731	15.67	209183	18.42
ZZZZZZ	77503	7.56	321867	10.31	356138	11.47	329349	15.66	204728	18.42
ZZZZZZ	79552	7.56	322315	10.31	357234	11.47	330673	15.67	205623	18.42
ZZZZZZ	78910	7.57	324892	10.31	356095	11.47	333556	15.67	206432	18.42
JB94104-3MS	90586	7.57	319673	10.31	357875	11.47	335048	15.67	204031	18.42
JB94104-3MSD	94320	7.57	328740	10.31	367836	11.47	341515	15.67	207881	18.42
JB94209-13	75631	7.56	320093	10.31	356459	11.46	323752	15.67	197624	18.42
JB94209-14	79056	7.56	332385	10.31	369403	11.46	337690	15.67	209614	18.42
JB94209-15	78782	7.56	332789	10.31	369757	11.47	334190	15.67	204569	18.42
JB94209-16	73437	7.56	312122	10.31	345503	11.47	316697	15.67	197933	18.42
ZZZZZZ	77568	7.56	324702	10.31	359305	11.47	331175	15.67	204642	18.42
ZZZZZZ	78783	7.56	320250	10.30	355877	11.46	327333	15.66	204004	18.42
ZZZZZZ	88552	7.56	328204	10.31	368863	11.46	344513	15.67	213262	18.42
ZZZZZZ	80310	7.55	333865	10.30	371539	11.45	341934	15.66	210246	18.42

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	V3C5467-CC5457	**Injection Date:**	05/10/15
Lab File ID:	3C119817.D	**Injection Time:**	10:41
Instrument ID:	GCMS3C	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	118979	7.09	284532	9.34	332498	10.25	263345	13.42	159623	15.72
Upper Limit [a]	237958	7.59	569064	9.84	664996	10.75	526690	13.92	319246	16.22
Lower Limit [b]	59490	6.59	142266	8.84	166249	9.75	131673	12.92	79812	15.22

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V3C5467-MB	89576	7.09	219993	9.34	265146	10.26	231169	13.42	143415	15.72
V3C5467-BS	109232	7.09	290443	9.34	343959	10.26	269811	13.42	150420	15.71
JB94209-12MS	133440	7.10	312800	9.34	361111	10.26	292431	13.42	164119	15.71
JB94209-12MSD	96481	7.10	286294	9.34	335469	10.26	272390	13.42	168241	15.71
JB94209-12	120135	7.08	299461	9.34	362482	10.26	309381	13.42	189199	15.72
ZZZZZZ	119281	7.10	312112	9.34	375076	10.26	288097	13.42	171724	15.72
ZZZZZZ	114188	7.09	301145	9.34	359798	10.26	291480	13.42	174158	15.72
ZZZZZZ	113858	7.09	290624	9.34	350070	10.26	292339	13.42	168475	15.71
ZZZZZZ	121052	7.08	292628	9.34	351332	10.26	294020	13.42	170404	15.71
ZZZZZZ	125596	7.08	303094	9.34	355876	10.26	310459	13.42	190744	15.71
ZZZZZZ	158931	7.09	298949	9.34	361021	10.26	313871	13.42	196943	15.72
ZZZZZZ	136840	7.09	299783	9.34	363261	10.26	300100	13.42	181586	15.71
ZZZZZZ	115661	7.09	297551	9.34	351816	10.26	301335	13.42	186969	15.71
ZZZZZZ	128477	7.09	359726	9.34	434394	10.26	352843	13.42	205314	15.71

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	VI8194-CC8156	**Injection Date:**	05/08/15
Lab File ID:	I203930.D	**Injection Time:**	09:39
Instrument ID:	GCMSI	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	93650	7.21	198874	9.45	237417	10.37	189421	13.52	96177	15.84
Upper Limit [a]	187300	7.71	397748	9.95	474834	10.87	378842	14.02	192354	16.34
Lower Limit [b]	46825	6.71	99437	8.95	118709	9.87	94711	13.02	48089	15.34

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VI8194-MB1	59507	7.18	167821	9.45	200914	10.37	176729	13.52	91615	15.84
ZZZZZZ	59507	7.18	167821	9.45	200914	10.37	176729	13.52	91615	15.84
VI8194-BS	117764	7.24	201974	9.45	241362	10.37	197933	13.52	104846	15.84
JB94209-1MS	77717	7.19	182813	9.45	217118	10.37	186904	13.52	84376	15.84
JB94209-1MSD	71258	7.18	176580	9.45	209551	10.37	170395	13.52	83897	15.84
JB94209-1	59952	7.18	155580	9.45	187111	10.37	158238	13.52	78363	15.84
ZZZZZZ	65004	7.18	159985	9.45	189789	10.37	175375	13.53	92076	15.84
ZZZZZZ	99563	7.19	169834	9.45	202248	10.37	170224	13.52	95840	15.84
ZZZZZZ	65623	7.17	167095	9.45	202161	10.37	183416	13.52	96596	15.84
ZZZZZZ	79202	7.18	162974	9.45	196313	10.37	166936	13.52	91161	15.84
ZZZZZZ	78746	7.19	182174	9.44	220664	10.37	186683	13.52	102365	15.84
ZZZZZZ	92758	7.18	177806	9.45	213720	10.37	194688	13.53	107175	15.84
ZZZZZZ	76739	7.18	182394	9.45	214078	10.37	178661	13.52	96822	15.84
ZZZZZZ	80593	7.22	178462	9.45	208747	10.37	168434	13.52	94678	15.84
ZZZZZZ	75279	7.18	180793	9.45	216103	10.37	179424	13.52	97390	15.84
ZZZZZZ	66690	7.18	162416	9.45	197688	10.37	174602	13.52	96244	15.84
ZZZZZZ	59839	7.17	166732	9.45	196690	10.37	177150	13.52	93670	15.84
ZZZZZZ	76179	7.20	169997	9.45	203485	10.37	169669	13.52	94980	15.84
ZZZZZZ	69028	7.18	160498	9.45	182197	10.37	154699	13.52	74103	15.84
ZZZZZZ	74377	7.19	177585	9.45	213402	10.37	175481	13.52	92571	15.84

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	VI8195-CC8156	**Injection Date:**	05/09/15
Lab File ID:	I203953A.D	**Injection Time:**	01:16
Instrument ID:	GCMSI	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	72076	7.19	161742	9.45	193151	10.37	155258	13.52	82148	15.84
Upper Limit [a]	144152	7.69	323484	9.95	386302	10.87	310516	14.02	164296	16.34
Lower Limit [b]	36038	6.69	80871	8.95	96576	9.87	77629	13.02	41074	15.34

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VI8195-MB1	53490	7.16	146967	9.45	177289	10.37	156978	13.52	81792	15.84
VI8195-BS	67802	7.19	162516	9.45	189635	10.37	155797	13.52	85759	15.84
JB94209-2MS	64041	7.19	176878	9.45	211745	10.37	174702	13.52	92963	15.84
JB94209-2MSD	63208	7.18	182822	9.45	217937	10.37	173702	13.52	91405	15.84
JB94209-2	69984	7.19	180749	9.45	212848	10.37	167226	13.52	92705	15.84
JB94209-3	54446	7.18	155250	9.44	187774	10.37	164248	13.52	76763	15.84
JB94209-4	47198	7.19	163813	9.45	192226	10.37	161622	13.52	82814	15.84
JB94209-5	56656	7.17	158903	9.45	192144	10.37	172545	13.52	84966	15.84
JB94209-6	56822	7.18	163982	9.45	190441	10.37	153446	13.52	80365	15.84
JB94209-7	65410	7.20	178418	9.45	208812	10.37	159553	13.52	79927	15.84
JB94209-8	64918	7.18	167211	9.44	199544	10.37	168061	13.52	88843	15.84
JB94209-10	55329	7.19	164364	9.45	194126	10.37	157531	13.52	81706	15.84
JB94209-11	63543	7.19	164102	9.45	193253	10.37	169239	13.52	85837	15.84
ZZZZZZ	65204	7.17	167920	9.45	197437	10.37	156424	13.52	74398	15.84
ZZZZZZ	75258	7.21	159593	9.45	188471	10.37	152973	13.52	75550	15.84
ZZZZZZ	69121	7.18	161528	9.45	190959	10.37	159954	13.52	80753	15.84
ZZZZZZ	59633	7.18	153957	9.45	179091	10.37	147695	13.52	68274	15.84
ZZZZZZ	62514	7.19	165778	9.45	197085	10.37	161098	13.52	86484	15.84

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	VI8196-CC8156	**Injection Date:**	05/11/15
Lab File ID:	I203980.D	**Injection Time:**	10:35
Instrument ID:	GCMSI	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	115636	7.19	249777	9.44	304940	10.37	253046	13.52	134709	15.84
Upper Limit [a]	231272	7.69	499554	9.94	609880	10.87	506092	14.02	269418	16.34
Lower Limit [b]	57818	6.69	124889	8.94	152470	9.87	126523	13.02	67355	15.34

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VI8196-MB1	88044	7.18	223392	9.45	269978	10.37	244672	13.52	124073	15.84
ZZZZZZ	88044	7.18	223392	9.45	269978	10.37	244672	13.52	124073	15.84
VI8196-BS	143552	7.20	280946	9.45	341591	10.37	280549	13.52	152234	15.84
ZZZZZZ	90912	7.20	187913	9.45	237174	10.37	199470	13.52	105707	15.84
ZZZZZZ	117282	7.19	261198	9.45	321508	10.37	266834	13.52	143384	15.84
ZZZZZZ	112122	7.18	248021	9.45	303183	10.37	248325	13.52	134475	15.84
JB94209-9	119531	7.20	286703	9.45	343663	10.37	269082	13.53	120802	15.84
ZZZZZZ	88337	7.18	225725	9.44	274888	10.37	213392	13.52	84881	15.84
ZZZZZZ	96365	7.19	224939	9.45	278496	10.37	214213	13.52	82424	15.84
JB94209-9MS	110090	7.20	329821	9.44	396714	10.37	316736	13.52	144430	15.84
JB94209-9MSD	114981	7.18	336047	9.45	410349	10.37	329899	13.52	153586	15.84
ZZZZZZ	124905	7.19	291134	9.45	350429	10.37	296892	13.53	151124	15.84
ZZZZZZ	119481	7.19	313194	9.45	375279	10.37	304392	13.52	161624	15.84
ZZZZZZ	121280	7.17	260346	9.45	313204	10.37	265089	13.52	133108	15.84
ZZZZZZ	105332	7.18	222929	9.45	277647	10.37	241295	13.52	126840	15.84
ZZZZZZ	115244	7.17	268997	9.45	328913	10.37	292771	13.53	151286	15.84
ZZZZZZ	107624	7.17	235425	9.45	292714	10.37	260147	13.52	130392	15.84
ZZZZZZ	124360	7.18	274244	9.45	329955	10.37	291315	13.52	166495	15.84

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	VI8197-CC8156	**Injection Date:**	05/11/15
Lab File ID:	I204003.D	**Injection Time:**	22:27
Instrument ID:	GCMSI	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	102491	7.19	246243	9.45	305603	10.37	254561	13.52	132816	15.84
Upper Limit [a]	204982	7.69	492486	9.95	611206	10.87	509122	14.02	265632	16.34
Lower Limit [b]	51246	6.69	123122	8.95	152802	9.87	127281	13.02	66408	15.34

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VI8197-MB1	86232	7.18	237347	9.45	282707	10.37	252595	13.52	129671	15.84
VI8197-BS	118487	7.21	255972	9.44	324228	10.37	262218	13.52	133623	15.84
JB94209-18MS	87094	7.18	256568	9.45	318135	10.37	276063	13.52	138794	15.84
JB94209-18MSD	90451	7.18	246940	9.45	301293	10.37	263849	13.52	135390	15.84
JB94209-18	123266	7.20	271128	9.45	334242	10.37	269556	13.52	144253	15.84
ZZZZZZ	86844	7.19	243508	9.45	290930	10.37	231334	13.52	91031	15.84
ZZZZZZ	93225	7.17	242425	9.45	302744	10.37	265445	13.52	136502	15.84
ZZZZZZ	129364	7.19	265186	9.45	323342	10.37	259355	13.52	139528	15.84
ZZZZZZ	103142	7.16	256796	9.45	321076	10.37	284301	13.52	145051	15.84
ZZZZZZ	108209	7.20	261427	9.45	320210	10.37	252938	13.52	137368	15.84
ZZZZZZ	110422	7.16	241545	9.45	297079	10.37	259439	13.52	134491	15.84
ZZZZZZ	113424	7.18	264724	9.44	335261	10.37	305391	13.53	150913	15.84
ZZZZZZ	101821	7.18	236756	9.45	296838	10.37	258347	13.52	134375	15.84
ZZZZZZ	103982	7.18	231965	9.45	292066	10.37	264241	13.53	134598	15.84
ZZZZZZ	139278	7.21	268879	9.45	336810	10.37	283041	13.53	154970	15.84
ZZZZZZ	112145	7.19	258129	9.45	319711	10.37	267838	13.52	142447	15.84
ZZZZZZ	103226	7.18	249809	9.45	303028	10.37	265274	13.52	136624	15.84

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JB94209-13	2D144326.D	94	88	100	97
JB94209-14	2D144327.D	96	89	100	97
JB94209-15	2D144328.D	96	88	99	97
JB94209-16	2D144329.D	95	88	99	99
JB94104-3MS	2D144323.D	96	89	100	98
JB94104-3MSD	2D144324.D	97	90	101	99
V2D6061-BS	2D144315.D	96	89	100	98
V2D6061-MB	2D144314.D	95	87	99	98

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	76-120%
S2 = 1,2-Dichloroethane-D4	73-122%
S3 = Toluene-D8	84-119%
S4 = 4-Bromofluorobenzene	78-117%

Volatile Surrogate Recovery Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Method: SW846 8260C **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JB94209-1	I203937.D	99	99	94	104
JB94209-2	I203960.D	94	95	97	92
JB94209-3	I203961.D	99	96	93	105
JB94209-4	I203962.D	94	95	93	96
JB94209-5	I203963.D	100	100	91	100
JB94209-6	I203964.D	98	99	95	94
JB94209-7	I203965.D	98	98	101	98
JB94209-8	I203966.D	100	98	92	95
JB94209-9	I203988.D	103	99	99	107
JB94209-10	I203968.D	98	96	95	97
JB94209-11	I203969.D	98	99	91	96
JB94209-12	3C119824.D	101	107	104	97
JB94209-18	I204010.D	97	92	96	95
JB94209-12MS	3C119821.D	101	110	103	102
JB94209-12MSD	3C119822.D	99	103	102	94
JB94209-18MS	I204007.D	101	87	91	99
JB94209-18MSD	I204008.D	101	90	90	99
JB94209-1MS	I203934.D	100	96	92	107
JB94209-1MSD	I203935.D	94	94	95	99
JB94209-2MS	I203957.D	95	93	94	97
JB94209-2MSD	I203958.D	92	88	96	97
JB94209-9MS	I203991.D	94	82	96	106
JB94209-9MSD	I203992.D	96	84	94	105
V3C5467-BS	3C119820.D	100	111	101	104
V3C5467-MB	3C119819.D	105	110	103	97
VI8194-BS	I203933.D	98	99	97	96
VI8194-MB1	I203932.D	97	95	91	97
VI8195-BS	I203956.D	95	96	94	95
VI8195-MB1	I203955.D	98	97	90	96
VI8196-BS	I203983.D	100	94	93	95
VI8196-MB1	I203982.D	98	92	90	96
VI8197-BS	I204006.D	99	88	95	97
VI8197-MB1	I204005.D	99	91	90	97

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-122%
S2 = 1,2-Dichloroethane-D4	68-124%
S3 = Toluene-D8	77-125%

Volatile Surrogate Recovery Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Method: SW846 8260C **Matrix:** SO

Samples and QC shown here apply to the above method

Surrogate Compounds	Recovery Limits
S4 = 4-Bromofluorobenzene	72-130%

Initial Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: V2D6039-ICC6039
Lab FileID: 2D143789.D

Response Factor Report MS2D

```
Method       : C:\MSDCHEM\1\METHODS\M2D6039.M (RTE Integrator)
Title        : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update  : Thu Apr 23 17:12:49 2015
Response via : Initial Calibration

Calibration Files
1   =2D143784.D  2   =2D143785.D  100 =2D143790.D  50  =2D143789.D
20  =2D143788.D  200 =2D143791.D  5   =2D143786.D  0.5 =2D143783.D
10  =2D143787.D  0.2 =2D143782.D      =                =

Compound
        1     2     100   50    20    200   5     0.5   10    0.2    Avg   %RSD
-------------------------------------------------------------------------------

1) I   tert butyl alcohol-d9 ----------------ISTD---------------------
2)  tertiary butyl alcohol
           1.020 1.099 1.123 1.181 1.052 1.045       1.187        1.101    6.01
3)  ethyl alcohol
     0.053 0.071 0.091 0.095 0.091 0.093 0.086       0.081        0.083   17.33
4)  1,4-dioxane
           0.097 0.103 0.105 0.108 0.097 0.091       0.107        0.101    6.08

5) I   pentafluorobenzene    ----------------ISTD---------------------
6)  freon 23
                                                                  0.000   -1.00
7)  freon 115
                                                                  0.000   -1.00
8)  freon 143a
                                                                  0.000   -1.00
9)  freon 152a
                                                                  0.000   -1.00
10)  chlorotrifluoroethene
                                                                  0.000   -1.00
11)  chlorodifluoromethane
     0.261 0.339 0.410 0.399 0.408 0.399 0.363 0.255 0.404        0.360   17.29
12)  dichlorodifluoromethane
     0.334 0.416 0.503 0.485 0.473 0.465 0.377       0.458        0.439   13.26
13)  freon 114
                                                                  0.000   -1.00
14)  freon 142b
                                                                  0.000   -1.00
15)  chloromethane
     0.451 0.457 0.535 0.515 0.494 0.512 0.422 0.508 0.463 0.468  0.482    7.33
16)  vinyl chloride
     0.382 0.406 0.492 0.470 0.452 0.459 0.381 0.381 0.433 0.424  0.428    9.33
17)  acetaldehyde
                                                                  0.000   -1.00
18)  bromomethane
     0.306 0.296 0.340 0.331 0.322 0.314 0.269 0.336 0.301 0.277  0.309    7.82
19)  chloroethane
     0.174 0.202 0.230 0.225 0.222 0.217 0.186 0.167 0.212        0.204   11.32
20)  trichlorofluoromethane
     0.425 0.468 0.583 0.567 0.551 0.549 0.453 0.331 0.527        0.495   16.64
21)  pentane
                                                                  0.000   -1.00
22)  ethyl ether
     0.115 0.151 0.172 0.162 0.170 0.168 0.148 0.157 0.157        0.156   11.04
23)  acrolein
```

Initial Calibration Summary

Job Number: JB94209 **Sample:** V2D6039-ICC6039
Account: PTCNJB PT Consultants **Lab FileID:** 2D143789.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

```
      0.055 0.059       0.054 0.055       0.051 0.038 0.051        0.052   13.19
24)  freon 141b
                                                                   0.000   -1.00
25)  freon 123a
                                                                   0.000   -1.00
26)  freon 123
                                                                   0.000   -1.00
27)  1,1-dichloroethene
      0.246 0.297 0.324 0.307 0.322 0.310 0.274 0.213 0.309 0.231  0.283   14.05
28)  2-chloropropane
      0.482 0.599 0.591 0.576 0.602 0.574 0.514 0.406 0.560        0.545   12.05
29)  acetone
                  0.024 0.024 0.026 0.024 0.018       0.024        0.023   12.35
30)  allyl chloride
      0.129 0.147 0.169 0.166 0.175 0.166 0.151 0.119 0.171        0.155   12.84
31)  acetonitrile
      0.019 0.023 0.025 0.024 0.025 0.025 0.023 0.024 0.025        0.024    8.92
32)  iodomethane
      0.508 0.633 0.728 0.697 0.710 0.710 0.614       0.671        0.659   11.02
33)  carbon disulfide
      0.970 1.085 1.171 1.118 1.144 1.118 1.010 0.895 1.093        1.067    8.45
34)  methylene chloride
      0.300 0.342 0.365 0.355 0.360 0.356 0.324 0.332 0.347 0.342  0.342    5.66
35)  methyl acetate
            0.031 0.045 0.044 0.046 0.045 0.038       0.042        0.042   12.74
36)  1-chloropropane
      0.031 0.027 0.028 0.028 0.029 0.027 0.023       0.026        0.027    8.07
37)  methyl tert butyl ether
      0.733 0.893 0.985 0.945 0.964 0.938 0.862 0.802 0.926 0.694  0.874   11.44
38)  trans-1,2-dichloroethene
      0.274 0.323 0.346 0.335 0.353 0.334 0.308 0.276 0.332 0.240  0.312   11.91
39)  di-isopropyl ether
      0.784 0.975 1.112 1.095 1.123 1.085 1.021 0.888 1.106        1.021   11.56
40)  2-butanone
                  0.032 0.031 0.032 0.031 0.024       0.033        0.031   10.48
41)  1,1-dichloroethane
      0.456 0.559 0.616 0.599 0.623 0.596 0.546 0.461 0.588 0.404  0.545   14.14
42)  chloroprene
      0.317 0.389 0.475 0.467 0.482 0.471 0.445 0.289 0.476        0.423   17.55
43)  acrylonitrile
      0.073 0.094 0.111 0.106 0.110 0.107 0.096 0.084 0.103        0.098   13.02
44)  vinyl acetate
            0.034 0.052 0.051 0.051 0.052 0.042       0.051        0.048   14.49
45)  ethyl tert-butyl ether
      0.756 0.911 1.086 1.061 1.080 1.067 0.982 0.925 1.075        0.994   11.30
46)  ethyl acetate
            0.036 0.037 0.038 0.039 0.037 0.030       0.037        0.036    8.06
47)  2,2-dichloropropane
      0.428 0.481 0.496 0.484 0.509 0.463 0.460 0.354 0.488        0.462   10.18
48)  cis-1,2-dichloroethene
      0.292 0.352 0.382 0.367 0.380 0.374 0.330 0.306 0.355 0.287  0.343   10.64
49)  propionitrile
      0.032 0.035 0.041 0.039 0.040 0.040 0.037 0.034 0.038        0.037    8.67
50)  tert-Butyl Formate
      0.203 0.243 0.289 0.282 0.295 0.281 0.274 0.235 0.290        0.266   11.85
51)  bromochloromethane
      0.155 0.190 0.205 0.198 0.207 0.201 0.174 0.160 0.191 0.117  0.180   15.88
52)  tetrahydrofuran
      0.063 0.080 0.085 0.082 0.086 0.082 0.080 0.093 0.083        0.082    9.85
53)  chloroform
```

Initial Calibration Summary

Job Number: JB94209 **Sample:** V2D6039-ICC6039
Account: PTCNJB PT Consultants **Lab FileID:** 2D143789.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

```
      0.493 0.580 0.600 0.581 0.604 0.580 0.527 0.520 0.573 0.595  0.565    6.72
54)  dibromofluoromethane (s)
      0.358 0.362 0.358 0.360 0.362 0.361 0.357 0.360 0.358 0.359  0.360    0.45
55)  1,2-dichloroethane-d4 (s)
      0.375 0.382 0.361 0.367 0.369 0.361 0.378 0.374 0.373 0.375  0.372    1.86
56)  freon 113
      0.192 0.240 0.298 0.288 0.292 0.290 0.265       0.304        0.271   14.05
57)  methacrylonitrile
      0.081 0.100 0.119 0.112 0.116 0.119 0.103       0.106        0.107   11.84
58)  1,1,1-trichloroethane
      0.405 0.496 0.558 0.537 0.552 0.538 0.481 0.346 0.527        0.493   14.73
59)  cyclohexane
      0.362 0.497 0.527 0.494 0.501 0.504 0.433       0.487        0.475   11.19
60)  isobutyl alcohol
             0.003 0.004 0.004 0.004 0.004 0.003       0.004        0.004   14.45
61)  tert amyl alcohol
                                                                    0.000   -1.00
62)  iso-octane
      0.791 1.026 1.238 1.189 1.205 1.203 1.055 0.803 1.256        1.085   16.67

63) I   1,4-difluorobenzene   ----------------ISTD---------------------
64)  di-isobutylene
                                                                    0.000   -1.00
65)  epichlorohydrin
      0.013 0.020 0.024 0.023 0.024 0.024 0.022 0.021 0.024        0.022   17.26
66)  n-butyl alcohol
      0.004 0.005 0.007 0.006 0.007 0.007 0.006 0.004 0.007        0.006   19.31
67)  carbon tetrachloride
      0.378 0.411 0.460 0.448 0.464 0.437 0.407       0.445        0.431    6.88
68)  1,1-dichloropropene
      0.285 0.358 0.400 0.387 0.400 0.387 0.344 0.249 0.377        0.354   15.08
69)  hexane
             0.036 0.050 0.048 0.050 0.048 0.047       0.053        0.047   11.49
70)  benzene
      0.917 1.072 1.142 1.107 1.160 1.103 1.019 0.855 1.075 0.841  1.029   11.38
71)  tert-amyl methyl ether
      0.151 0.183 0.204 0.198 0.208 0.198 0.193 0.172 0.208        0.191    9.91
72)  heptane
      0.141 0.171 0.191 0.185 0.196 0.185 0.175 0.144 0.205        0.177   12.43
73)  isopropyl acetate
      0.355 0.423 0.480 0.466 0.485 0.485 0.454 0.448 0.486        0.454    9.41
74)  1,2-dichloroethane
      0.326 0.365 0.385 0.378 0.394 0.364 0.360 0.314 0.376 0.264  0.353   11.38
75)  trichloroethene
      0.276 0.301 0.340 0.326 0.334 0.333 0.293 0.216 0.320 0.207  0.295   16.42
76)  ethyl acrylate
                                                                    0.000   -1.00
77)  tert amyl ethyl ether
                                                                    0.000   -1.00
78)  2-nitropropane
                                                                    0.000   -1.00
79)  2-chloroethyl vinyl ether
             0.119 0.161 0.156 0.155 0.159 0.135       0.152        0.148   10.56
80)  methyl methacrylate
      0.118 0.146 0.173 0.165 0.169 0.170 0.144 0.124 0.156        0.152   13.36
81)  1,2-dichloropropane
      0.249 0.274 0.307 0.293 0.303 0.298 0.281 0.243 0.290        0.282    8.13
82)  dibromomethane
      0.153 0.174 0.191 0.183 0.192 0.184 0.173 0.147 0.185        0.176    9.05
83)  methylcyclohexane
```

Initial Calibration Summary

Job Number: JB94209 **Sample:** V2D6039-ICC6039
Account: PTCNJB PT Consultants **Lab FileID:** 2D143789.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

```
      0.357 0.416 0.519 0.505 0.516 0.513 0.468       0.530        0.478   12.86
 84)  bromodichloromethane
      0.320 0.361 0.419 0.405 0.415 0.409 0.367 0.323 0.388        0.379   10.08
 85)  cis-1,3-dichloropropene
      0.390 0.440 0.504 0.486 0.500 0.495 0.429 0.393 0.462 0.348  0.445   12.14
 86)  toluene-d8 (s)
      1.133 1.130 1.140 1.142 1.130 1.143 1.131 1.123 1.133 1.126  1.133    0.58
 87)  4-methyl-2-pentanone
      0.080 0.082 0.101 0.099 0.103 0.103 0.085       0.093        0.093   10.26
 88)  toluene
      0.592 0.676 0.727 0.698 0.717 0.711 0.626 0.599 0.676 0.620  0.664    7.62
 89)  3-methyl-1-butanol
      0.008 0.009 0.011 0.011 0.011 0.011 0.010 0.008 0.011        0.010   13.52
 90)  trans-1,3-dichloropropene
      0.333 0.423 0.459 0.436 0.450 0.449 0.398 0.335 0.416        0.411   11.59
 91)  ethyl methacrylate
      0.240 0.296 0.352 0.337 0.336 0.348 0.298 0.288 0.324        0.313   11.56
 92)  1,1,2-trichloroethane
      0.175 0.202 0.224 0.215 0.222 0.219 0.194 0.202 0.208        0.207    7.55
 93)  2-hexanone
      0.054 0.076 0.089 0.086 0.093 0.090 0.077       0.082        0.081   15.28

 94) I   chlorobenzene-d5      ----------------ISTD---------------------
 95)  3,3-Dimethyl-1-butanol
      0.020 0.024 0.030 0.028 0.028 0.032 0.025 0.022 0.027        0.026   13.88
 96)  tetrachloroethene
      0.261 0.310 0.345 0.333 0.345 0.333 0.308 0.227 0.327        0.310   13.01
 97)  1,3-dichloropropane
      0.379 0.479 0.474 0.457 0.481 0.447 0.431 0.413 0.451        0.446    7.56
 98)  butyl acetate
      0.134 0.163 0.187 0.182 0.193 0.189 0.186 0.141 0.193        0.174   12.99
 99)  dibromochloromethane
      0.313 0.346 0.406 0.388 0.401 0.390 0.352 0.302 0.366 0.326  0.359   10.39
100)  1,2-dibromoethane
      0.241 0.289 0.313 0.302 0.316 0.304 0.273 0.269 0.291        0.288    8.33
101)  n-butyl ether
      1.167 1.388 1.514 1.467 1.539 1.446 1.311 1.096 1.403 1.178  1.351   11.54
102)  chlorobenzene
      0.739 0.879 0.954 0.924 0.962 0.921 0.856 0.772 0.902 0.710  0.862   10.53
103)  1,1,1,2-tetrachloroethane
      0.322 0.357 0.414 0.394 0.409 0.399 0.357 0.297 0.388        0.371   10.94
104)  ethylbenzene
      1.243 1.474 1.547 1.508 1.596 1.475 1.397 1.111 1.498 1.109  1.396   12.74
105)  m,p-xylene
      0.495 0.556 0.615 0.595 0.624 0.596 0.534 0.430 0.579 0.448  0.547   12.59
106)  o-xylene
      0.507 0.551 0.651 0.626 0.648 0.636 0.557 0.451 0.601 0.491  0.572   12.48
107)  styrene
      0.740 0.887 1.036 1.002 1.042 1.004 0.882 0.724 0.939 0.767  0.902   13.64
108)  bromoform
      0.223 0.269 0.319 0.304 0.314 0.309 0.269 0.247 0.289        0.282   11.71

109) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
110)  isopropylbenzene
      2.080 2.411 2.860 2.727 2.791 2.724 2.280 1.752 2.539        2.463   15.04
111)  4-bromofluorobenzene (s)
      0.800 0.785 0.790 0.782 0.785 0.773 0.788 0.805 0.786 0.788  0.788    1.14
112)  cyclohexanone        * This compound does not meet initial criteria*
      0.054 0.044 0.051 0.048       0.038 0.040       0.061        0.048   16.76
113)  bromobenzene
```

Initial Calibration Summary

Job Number: JB94209 **Sample:** V2D6039-ICC6039
Account: PTCNJB PT Consultants **Lab FileID:** 2D143789.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

```
       0.608 0.733 0.829 0.795 0.809 0.794 0.709 0.672 0.756 0.612  0.732   10.92
114)  1,1,2,2-tetrachloroethane
       0.548 0.604 0.695 0.669 0.700 0.670 0.597 0.632 0.630 0.541  0.628    8.97
115)  trans-1,4-dichloro-2-butene
              0.057 0.136 0.122 0.111 0.138 0.074       0.090        0.104   30.08
              ----- Linear regression -----  Coefficient =  0.9995
                Response Ratio = -0.00943 + 0.14016 *A

116)  1,2,3-trichloropropane
       0.165 0.159 0.174 0.170 0.178 0.165 0.157 0.133 0.171        0.163    8.18
117)  n-propylbenzene
       2.360 2.665 3.054 2.946 3.057 2.901 2.581 2.218 2.807        2.732   10.98
118)  4-ethyltoluene
                                                                    0.000   -1.00
119)  2-chlorotoluene
       0.525 0.630 0.724 0.695 0.711 0.709 0.594 0.502 0.661 0.522  0.627   13.78
120)  4-chlorotoluene
       1.570 1.748 1.911 1.864 1.952 1.843 1.672 1.558 1.836 1.766  1.772    7.68
121)  1,3,5-trimethylbenzene
       1.799 2.072 2.454 2.336 2.397 2.353 2.011 1.711 2.184        2.146   12.45
122)  tert-butylbenzene
       1.634 1.859 2.260 2.133 2.143 2.201 1.753 1.498 1.962        1.938   13.89
123)  pentachloroethane
       0.400 0.486 0.604 0.569 0.568 0.581 0.488 0.427 0.508        0.515   13.85
124)  1,2,4-trimethylbenzene
       1.709 2.115 2.430 2.339 2.388 2.348 1.995 1.670 2.203        2.133   13.47
125)  1,2,3-trimethylbenzene
                                                                    0.000   -1.00
126)  sec-butylbenzene
       2.337 2.741 3.328 3.149 3.177 3.202 2.628 2.092 2.928        2.843   14.99
127)  1,3-dichlorobenzene
       1.225 1.418 1.562 1.515 1.574 1.517 1.346 1.269 1.443 1.265  1.413    9.21
128)  p-isopropyltoluene
       2.065 2.388 2.901 2.746 2.787 2.803 2.275 1.901 2.567        2.493   14.26
129)  1,4-dichlorobenzene
       1.287 1.456 1.585 1.518 1.590 1.552 1.360 1.331 1.435 1.510  1.462    7.34
130)  1,2-dichlorobenzene
       1.202 1.362 1.611 1.536 1.581 1.556 1.362 1.305 1.460 1.237  1.421   10.40
131)  benzyl chloride
       1.029 1.118 1.272 1.245 1.272 1.229 1.178 1.331 1.264 1.333  1.227    7.74
132)  1,4-diethylbenzene
                                                                    0.000   -1.00
133)  n-butylbenzene
       0.975 1.132 1.395 1.317 1.335 1.345 1.072       1.205        1.222   12.32
134)  1,2,4,5-tetramethylbenzene
                                                                    0.000   -1.00
135)  1,2-dibromo-3-chloropropane
       0.141 0.148 0.192 0.180 0.181 0.184 0.151 0.174 0.152        0.167   11.45
136)  1,3,5-trichlorobenzene
       1.036 1.243 1.613 1.516 1.492 1.477 1.205       1.340        1.365   14.18
137)  hexachlorobutadiene
       0.541 0.638 0.814 0.771 0.770 0.732 0.626 0.561 0.703        0.684   14.20
138)  naphthalene
              1.660 2.533 2.392 2.291 2.323 1.733       1.969        2.129   16.03
139)  1,2,4-trichlorobenzene
       0.868 0.972 1.446 1.366 1.299 1.327 1.015       1.143        1.180   17.85
140)  1,2,3-trichlorobenzene
       0.777 0.865 1.268 1.190 1.160 1.151 0.888       0.998        1.037   17.32
141)  hexachloroethane
       0.372 0.475 0.660 0.602 0.583 0.640 0.463       0.535        0.541   18.28
```

Initial Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: V2D6039-ICC6039
Lab FileID: 2D143789.D

```
--------------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M2D6039.M         Thu Apr 23 17:18:31 2015   MS2D
```

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: V2D6039-ICV6039
Lab FileID: 2D143794.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\2D143794.D Vial: 14
Acq On : 21 Apr 2015 10:21 pm Operator: BridgetK
Sample : icv6039-50 Inst : MS2D
Misc : ms83643,v2d6039,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2D6039.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Wed Apr 22 10:22:38 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	101	0.03	7.59
2		tertiary butyl alcohol	1.101	1.218	-10.6	110	0.02	7.72
3		ethyl alcohol	0.083	0.095	-14.5	101	0.02	6.19
4		1,4-dioxane	0.101	0.101	0.0	98	0.03	12.43
5	I	pentafluorobenzene	1.000	1.000	0.0	99	0.03	10.33
6	m	freon 23		----------NA----------				
7	m	freon 115		----------NA----------				
8	m	freon 143a		----------NA----------				
9	m	freon 152a		----------NA----------				
10	m	chlorotrifluoroethene		----------NA----------				
11		chlorodifluoromethane	0.360	0.384	-6.7	95	0.01	3.98
12		dichlorodifluoromethane	0.439	0.370	15.7	75	0.02	3.96
13	m	freon 114		----------NA----------				
14	m	freon 142b		----------NA----------				
15		chloromethane	0.482	0.471	2.3	90	0.02	4.32
16		vinyl chloride	0.428	0.437	-2.1	92	0.03	4.59
17	m	acetaldehyde		----------NA----------				
18		bromomethane	0.309	0.327	-5.8	97	0.02	5.25
19		chloroethane	0.204	0.247	-21.1	108	0.02	5.43
20		trichlorofluoromethane	0.495	0.519	-4.8	90	0.03	5.94
21	m	pentane		----------NA----------				
22		ethyl ether	0.156	0.166	-6.4	101	0.02	6.37
23		acrolein	0.052	0.066	-26.9	119	0.03	6.64
24	m	freon 141b		----------NA----------				
25	m	freon 123a		----------NA----------				
26	m	freon 123		----------NA----------				
27		1,1-dichloroethene	0.283	0.263	7.1	85	0.03	6.83
28	m	2-chloropropane	0.545	0.518	5.0	89	0.03	6.58
29		acetone	0.023	0.026	-13.0	109	0.02	6.89
30		allyl chloride	0.155	0.182	-17.4	108	0.02	7.41
31		acetonitrile	0.024	0.026	-8.3	105	0.03	7.38
32		iodomethane	0.659	0.588	10.8	83	0.02	7.11
33		carbon disulfide	1.067	0.804	24.6	71	0.03	7.24
34		methylene chloride	0.342	0.348	-1.8	97	0.03	7.62
35		methyl acetate	0.042	0.048	-14.3	106	0.03	7.41
36	m	1-chloropropane	0.027	0.026	3.7	93	0.03	7.67
37		methyl tert butyl ether	0.874	0.969	-10.8	101	0.03	8.03
38		trans-1,2-dichloroethene	0.312	0.322	-3.2	95	0.03	8.06
39		di-isopropyl ether	1.021	1.179	-15.5	106	0.03	8.75
40		2-butanone	0.031	0.033	-6.5	103	0.03	9.62
41		1,1-dichloroethane	0.545	0.614	-12.7	101	0.03	8.73

Initial Calibration Verification

Job Number: JB94209 **Sample:** V2D6039-ICV6039
Account: PTCNJB PT Consultants **Lab FileID:** 2D143794.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

42		chloroprene	0.423	0.453	-7.1	96	0.03	8.86
43		acrylonitrile	0.098	0.114	-16.3	106	0.03	8.02
44		vinyl acetate	0.048	0.056	-16.7	107	0.03	8.74
45		ethyl tert-butyl ether	0.994	1.109	-11.6	103	0.03	9.32
46		ethyl acetate	0.036	0.041	-13.9	106	0.02	9.66
47		2,2-dichloropropane	0.462	0.457	1.1	93	0.03	9.65
48		cis-1,2-dichloroethene	0.343	0.380	-10.8	102	0.03	9.63
49		propionitrile	0.037	0.042	-13.5	107	0.03	9.74
50		tert-Butyl Formate	0.266	0.316	-18.8	111	0.03	10.17
51		bromochloromethane	0.180	0.205	-13.9	102	0.03	10.01
52		tetrahydrofuran	0.082	0.088	-7.3	106	0.02	10.07
53		chloroform	0.565	0.610	-8.0	104	0.03	10.10
54	S	dibromofluoromethane (s)	0.360	0.358	0.6	98	0.03	10.34
55	S	1,2-dichloroethane-d4 (s)	0.372	0.361	3.0	97	0.03	10.88
56		freon 113	0.271	0.311	-14.8	107	0.02	6.81
57		methacrylonitrile	0.107	0.122	-14.0	108	0.03	9.97
58		1,1,1-trichloroethane	0.493	0.540	-9.5	99	0.03	10.42
59		cyclohexane	0.475	0.454	4.4	91	0.03	10.51
60		isobutyl alcohol	0.004	0.004	0.0	99	0.03	10.65
61	m	tert amyl alcohol		----------NA----------				
62	m	iso-octane	1.085	1.164	-7.3	97	0.02	11.03
63	I	1,4-difluorobenzene	1.000	1.000	0.0	98	0.03	11.49
64		di-isobutylene		----------NA----------				
65		epichlorohydrin	0.022	0.026	-18.2	109	0.03	13.16
66		n-butyl alcohol	0.006	0.007	-16.7	111	0.03	11.66
67		carbon tetrachloride	0.431	0.452	-4.9	99	0.03	10.67
68		1,1-dichloropropene	0.354	0.372	-5.1	95	0.03	10.65
69		hexane	0.047	0.042	10.6	85	0.03	8.44
70		benzene	1.029	1.148	-11.6	102	0.03	10.98
71		tert-amyl methyl ether	0.191	0.212	-11.0	105	0.03	11.07
72		heptane	0.177	0.196	-10.7	105	0.03	11.26
73		isopropyl acetate	0.454	0.496	-9.3	105	0.02	10.94
74		1,2-dichloroethane	0.353	0.395	-11.9	103	0.03	11.00
75		trichloroethene	0.295	0.340	-15.3	102	0.03	11.92
76	m	ethyl acrylate		----------NA----------				
77	m	tert amyl ethyl ether		----------NA----------				
78		2-nitropropane		----------NA----------				
79		2-chloroethyl vinyl ether	0.148	0.179	-20.9	113	0.03	13.02
80		methyl methacrylate	0.152	0.179	-17.8	107	0.03	12.33
81		1,2-dichloropropane	0.282	0.316	-12.1	106	0.02	12.27
82		dibromomethane	0.176	0.197	-11.9	106	0.02	12.46
83		methylcyclohexane	0.478	0.528	-10.5	103	0.03	12.22
84		bromodichloromethane	0.379	0.421	-11.1	102	0.03	12.65
85		cis-1,3-dichloropropene	0.445	0.468	-5.2	95	0.02	13.28
86	S	toluene-d8 (s)	1.133	1.136	-0.3	98	0.03	13.68
87		4-methyl-2-pentanone	0.093	0.108	-16.1	108	0.03	13.46
88		toluene	0.664	0.728	-9.6	103	0.02	13.77
89		3-methyl-1-butanol	0.010	0.012	-20.0	107	0.02	13.47
90		trans-1,3-dichloropropene	0.411	0.457	-11.2	103	0.02	14.04
91		ethyl methacrylate	0.313	0.346	-10.5	101	0.02	14.09
92		1,1,2-trichloroethane	0.207	0.230	-11.1	105	0.02	14.32
93		2-hexanone	0.081	0.094	-16.0	107	0.02	14.61
94	I	chlorobenzene-d5	1.000	1.000	0.0	97	0.02	15.69
95		3,3-Dimethyl-1-butanol	0.026	0.028	-7.7	100	0.02	14.83
96		tetrachloroethene	0.310	0.351	-13.2	103	0.02	14.54
97		1,3-dichloropropane	0.446	0.492	-10.3	105	0.02	14.57
98		butyl acetate	0.174	0.197	-13.2	105	0.02	14.73
99		dibromochloromethane	0.359	0.415	-15.6	104	0.02	14.90

Initial Calibration Verification

Job Number: JB94209 **Sample:** V2D6039-ICV6039
Account: PTCNJB PT Consultants **Lab FileID:** 2D143794.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

100		1,2-dibromoethane	0.288	0.323	-12.2	104	0.03	15.10
101	m	n-butyl ether	1.351	1.518	-12.4	101	0.02	15.71
102		chlorobenzene	0.862	0.991	-15.0	104	0.02	15.73
103		1,1,1,2-tetrachloroethane	0.371	0.412	-11.1	102	0.02	15.82
104		ethylbenzene	1.396	1.604	-14.9	103	0.02	15.83
105		m,p-xylene	0.547	0.634	-15.9	104	0.02	15.97
106		o-xylene	0.572	0.657	-14.9	102	0.02	16.51
107		styrene	0.902	1.062	-17.7	103	0.02	16.52
108		bromoform	0.282	0.319	-13.1	102	0.02	16.81
109	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	96	0.02	18.44
110		isopropylbenzene	2.463	2.912	-18.2	103	0.02	16.95
111	S	4-bromofluorobenzene (s)	0.788	0.791	-0.4	98	0.02	17.16
112	m	cyclohexanone	0.048	0.033	31.3#	66	0.02	17.13
113		bromobenzene	0.732	0.848	-15.8	103	0.02	17.38
114		1,1,2,2-tetrachloroethane	0.628	0.702	-11.8	101	0.02	17.30
		----------	True	Calc.	% Drift	----------		
115		trans-1,4-dichloro-2-bute	50.000	51.456	-2.9	107	0.02	17.36
		----------	AvgRF	CCRF	% Dev	----------		
116		1,2,3-trichloropropane	0.163	0.179	-9.8	102	0.02	17.38
117		n-propylbenzene	2.732	3.296	-20.6	108	0.02	17.43
118	m	4-ethyltoluene		----------NA----------				
119		2-chlorotoluene	0.627	0.737	-17.5	102	0.02	17.57
120		4-chlorotoluene	1.772	1.950	-10.0	101	0.02	17.69
121		1,3,5-trimethylbenzene	2.146	2.468	-15.0	102	0.02	17.61
122		tert-butylbenzene	1.938	2.264	-16.8	102	0.02	17.99
123		pentachloroethane	0.515	0.604	-17.3	102	0.02	18.05
124		1,2,4-trimethylbenzene	2.133	2.536	-18.9	105	0.02	18.03
125	m	1,2,3-trimethylbenzene		----------NA----------				
126		sec-butylbenzene	2.843	3.299	-16.0	101	0.02	18.21
127		1,3-dichlorobenzene	1.413	1.605	-13.6	102	0.02	18.38
128		p-isopropyltoluene	2.493	2.933	-17.6	103	0.02	18.34
129		1,4-dichlorobenzene	1.462	1.623	-11.0	103	0.02	18.46
130		1,2-dichlorobenzene	1.421	1.633	-14.9	102	0.02	18.85
131		benzyl chloride	1.227	1.379	-12.4	107	0.02	18.59
132	m	1,4-diethylbenzene		----------NA----------				
133		n-butylbenzene	1.222	1.421	-16.3	104	0.02	18.75
134	m	1,2,4,5-tetramethylbenzen		----------NA----------				
135		1,2-dibromo-3-chloropropa	0.167	0.193	-15.6	103	0.02	19.59
136		1,3,5-trichlorobenzene	1.365	1.620	-18.7	103	0.02	19.76
137		hexachlorobutadiene	0.684	0.785	-14.8	98	0.02	20.46
138		naphthalene	2.129	2.509	-17.8	101	0.02	20.61
139		1,2,4-trichlorobenzene	1.180	1.427	-20.9	101	0.02	20.35
140	m	1,2,3-trichlorobenzene	1.037	1.255	-21.0	102	0.02	20.83
141		hexachloroethane	0.541	0.641	-18.5	103	0.02	19.10

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2D143789.D M2D6039.M Wed Apr 22 10:29:05 2015 MS2D

Continuing Calibration Summary

Job Number: JB94209 **Sample:** V2D6061-CC6039
Account: PTCNJB PT Consultants **Lab FileID:** 2D144312.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2d\v2d6061\2D144312.D      Vial: 2
Acq On    :  8 May 2015  10:52 am                    Operator: BridgetK
Sample    : cc6039-20                                Inst    : MS2D
Misc      : ms84775,v2d6061,5,,,,1                   Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2D6039.M (RTE Integrator)
Title        : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update  : Thu Apr 23 17:12:49 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	104	0.00	7.56
2		tertiary butyl alcohol	1.101	1.017	7.6	90	-0.02	7.68
3		ethyl alcohol	0.083	0.105	-26.5#	120	0.00	6.16
4		1,4-dioxane	0.101	0.101	0.0	97	0.00	12.40
5	I	pentafluorobenzene	1.000	1.000	0.0	111	0.00	10.30
6	m	freon 23		----------NA----------				
7	m	freon 115		----------NA----------				
8	m	freon 143a		----------NA----------				
9	m	freon 152a		----------NA----------				
10	m	chlorotrifluoroethene		----------NA----------				
11		chlorodifluoromethane	0.360	0.311	13.6	85	0.00	3.96
12		dichlorodifluoromethane	0.439	0.409	6.8	96	0.02	3.96
13	m	freon 114		----------NA----------				
14	m	freon 142b		----------NA----------				
15		chloromethane	0.482	0.408	15.4	92	-0.01	4.29
16		vinyl chloride	0.428	0.401	6.3	99	-0.02	4.55
17	m	acetaldehyde		----------NA----------				
18		bromomethane	0.309	0.303	1.9	105	0.00	5.23
19		chloroethane	0.204	0.201	1.5	100	0.00	5.41
20		trichlorofluoromethane	0.495	0.485	2.0	98	0.00	5.91
21	m	pentane		----------NA----------				
22		ethyl ether	0.156	0.155	0.6	101	0.00	6.35
23		acrolein	0.052	0.033	36.5#	66	0.00	6.62
24	m	freon 141b		----------NA----------				
25	m	freon 123a		----------NA----------				
26	m	freon 123		----------NA----------				
27		1,1-dichloroethene	0.283	0.275	2.8	95	0.00	6.79
28	m	2-chloropropane	0.545	0.498	8.6	92	0.00	6.55
29		acetone	0.023	0.020	13.0	85	0.00	6.87
30		allyl chloride	0.155	0.148	4.5	94	0.00	7.39
31		acetonitrile	0.024	0.021	12.5	93	0.00	7.35
32		iodomethane	0.659	0.629	4.6	99	0.00	7.09
33		carbon disulfide	1.067	0.986	7.6	96	0.00	7.21
34		methylene chloride	0.342	0.324	5.3	100	0.00	7.59
35		methyl acetate	0.042	0.039	7.1	93	0.00	7.38
36	m	1-chloropropane	0.027	0.026	3.7	99	0.00	7.64
37		methyl tert butyl ether	0.874	0.840	3.9	97	0.00	7.99
38		trans-1,2-dichloroethene	0.312	0.305	2.2	96	0.00	8.03
39		di-isopropyl ether	1.021	0.921	9.8	91	0.00	8.72
40		2-butanone	0.031	0.027	12.9	94	0.00	9.59
41		1,1-dichloroethane	0.545	0.543	0.4	97	0.00	8.70

Continuing Calibration Summary

Job Number: JB94209 **Sample:** V2D6061-CC6039
Account: PTCNJB PT Consultants **Lab FileID:** 2D144312.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

42		chloroprene	0.423	0.376	11.1	87	0.00	8.84
43		acrylonitrile	0.098	0.088	10.2	89	0.00	7.98
44		vinyl acetate	0.048	0.046	4.2	101	0.00	8.71
45		ethyl tert-butyl ether	0.994	0.932	6.2	96	0.00	9.29
46		ethyl acetate	0.036	0.031	13.9	88	0.00	9.64
47		2,2-dichloropropane	0.462	0.472	-2.2	103	0.00	9.62
48		cis-1,2-dichloroethene	0.343	0.340	0.9	99	0.00	9.60
49		propionitrile	0.037	0.034	8.1	93	0.00	9.71
50		tert-Butyl Formate	0.266	0.258	3.0	97	0.00	10.14
51		bromochloromethane	0.180	0.189	-5.0	102	0.00	9.99
52		tetrahydrofuran	0.082	0.072	12.2	93	0.00	10.04
53		chloroform	0.565	0.519	8.1	96	0.00	10.07
54	S	dibromofluoromethane (s)	0.360	0.339	5.8	104	0.00	10.32
55	S	1,2-dichloroethane-d4 (s)	0.372	0.326	12.4	98	0.00	10.86
56		freon 113	0.271	0.255	5.9	97	0.00	6.78
57		methacrylonitrile	0.107	0.105	1.9	100	0.00	9.94
58		1,1,1-trichloroethane	0.493	0.459	6.9	92	0.00	10.39
59		cyclohexane	0.475	0.442	6.9	98	0.00	10.48
60		isobutyl alcohol	0.004	0.003	25.0#	95	0.00	10.62
61	m	tert amyl alcohol		----------NA----------				
62	m	iso-octane	1.085	1.017	6.3	94	-0.01	11.00
63	I	1,4-difluorobenzene	1.000	1.000	0.0	112	0.00	11.46
64		di-isobutylene		----------NA----------				
65		epichlorohydrin	0.022	0.022	0.0	104	0.00	13.13
66		n-butyl alcohol	0.006	0.006	0.0	99	0.00	11.63
67		carbon tetrachloride	0.431	0.383	11.1	92	0.00	10.64
68		1,1-dichloropropene	0.354	0.341	3.7	95	0.00	10.62
69		hexane	0.047	0.039	17.0	86	0.00	8.42
70		benzene	1.029	1.029	0.0	99	0.00	10.96
71		tert-amyl methyl ether	0.191	0.178	6.8	96	-0.01	11.03
72		heptane	0.177	0.166	6.2	95	0.00	11.23
73		isopropyl acetate	0.454	0.397	12.6	92	0.00	10.91
74		1,2-dichloroethane	0.353	0.328	7.1	93	0.00	10.97
75		trichloroethene	0.295	0.307	-4.1	103	0.00	11.88
76	m	ethyl acrylate		----------NA----------				
77	m	tert amyl ethyl ether		----------NA----------				
78		2-nitropropane		----------NA----------				
79		2-chloroethyl vinyl ether	0.148	0.151	-2.0	109	0.00	12.99
80		methyl methacrylate	0.152	0.150	1.3	100	0.00	12.30
81		1,2-dichloropropane	0.282	0.274	2.8	101	0.00	12.25
82		dibromomethane	0.176	0.173	1.7	101	0.00	12.43
83		methylcyclohexane	0.478	0.426	10.9	92	0.00	12.19
84		bromodichloromethane	0.379	0.364	4.0	98	0.00	12.62
85		cis-1,3-dichloropropene	0.445	0.454	-2.0	102	0.00	13.25
86	S	toluene-d8 (s)	1.133	1.124	0.8	111	0.00	13.65
87		4-methyl-2-pentanone	0.093	0.087	6.5	95	0.00	13.43
88		toluene	0.664	0.668	-0.6	104	0.00	13.75
89		3-methyl-1-butanol	0.010	0.009	10.0	94	0.00	13.45
90		trans-1,3-dichloropropene	0.411	0.404	1.7	100	0.00	14.02
91		ethyl methacrylate	0.313	0.303	3.2	101	0.00	14.07
92		1,1,2-trichloroethane	0.207	0.208	-0.5	105	0.00	14.30
93		2-hexanone	0.081	0.077	4.9	93	0.00	14.58
94	I	chlorobenzene-d5	1.000	1.000	0.0	115	0.00	15.66
95		3,3-Dimethyl-1-butanol	0.026	0.023	11.5	97	0.00	14.81
96		tetrachloroethene	0.310	0.310	0.0	103	0.00	14.52
97		1,3-dichloropropane	0.446	0.422	5.4	101	0.00	14.55
98		butyl acetate	0.174	0.163	6.3	97	0.00	14.71
99		dibromochloromethane	0.359	0.350	2.5	101	0.00	14.88

Continuing Calibration Summary

Job Number: JB94209 **Sample:** V2D6061-CC6039
Account: PTCNJB PT Consultants **Lab FileID:** 2D144312.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

100		1,2-dibromoethane	0.288	0.282	2.1	103	0.00	15.07
101	m	n-butyl ether	1.351	1.307	3.3	98	0.00	15.69
102		chlorobenzene	0.862	0.887	-2.9	106	0.00	15.71
103		1,1,1,2-tetrachloroethane	0.371	0.357	3.8	101	0.00	15.80
104		ethylbenzene	1.396	1.417	-1.5	102	0.00	15.81
105		m,p-xylene	0.547	0.573	-4.8	106	0.00	15.95
106		o-xylene	0.572	0.584	-2.1	104	0.00	16.49
107		styrene	0.902	0.952	-5.5	105	0.00	16.50
108		bromoform	0.282	0.266	5.7	98	0.00	16.80
109	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	111	0.00	18.42
110		isopropylbenzene	2.463	2.516	-2.2	100	0.00	16.93
111	S	4-bromofluorobenzene (s)	0.788	0.785	0.4	111	0.00	17.15
112	m	cyclohexanone	0.048	0.031	35.4#	0#	0.00	17.11
113		bromobenzene	0.732	0.764	-4.4	105	0.00	17.36
114		1,1,2,2-tetrachloroethane	0.628	0.621	1.1	99	0.00	17.28
		----------	True	Calc.	% Drift	----------		
115		trans-1,4-dichloro-2-bute	20.000	18.306	8.5	105	0.00	17.34
		----------	AvgRF	CCRF	% Dev	----------		
116		1,2,3-trichloropropane	0.163	0.161	1.2	101	0.00	17.36
117		n-propylbenzene	2.732	2.757	-0.9	100	0.00	17.41
118	m	4-ethyltoluene		----------NA----------				
119		2-chlorotoluene	0.627	0.657	-4.8	103	0.00	17.55
120		4-chlorotoluene	1.772	1.772	0.0	101	0.00	17.67
121		1,3,5-trimethylbenzene	2.146	2.185	-1.8	101	0.00	17.59
122		tert-butylbenzene	1.938	1.925	0.7	100	0.00	17.97
123		pentachloroethane	0.515	0.512	0.6	100	0.00	18.03
124		1,2,4-trimethylbenzene	2.133	2.188	-2.6	102	0.00	18.01
125	m	1,2,3-trimethylbenzene		----------NA----------				
126		sec-butylbenzene	2.843	2.918	-2.6	102	0.00	18.20
127		1,3-dichlorobenzene	1.413	1.457	-3.1	103	0.00	18.36
128		p-isopropyltoluene	2.493	2.558	-2.6	102	0.00	18.32
129		1,4-dichlorobenzene	1.462	1.444	1.2	101	0.00	18.45
130		1,2-dichlorobenzene	1.421	1.470	-3.4	103	0.00	18.83
131		benzyl chloride	1.227	1.331	-8.5	116	0.00	18.57
132	m	1,4-diethylbenzene		----------NA----------				
133		n-butylbenzene	1.222	1.232	-0.8	103	0.00	18.74
134	m	1,2,4,5-tetramethylbenzen		----------NA----------				
135		1,2-dibromo-3-chloropropa	0.167	0.161	3.6	99	0.00	19.57
136		1,3,5-trichlorobenzene	1.365	1.414	-3.6	105	0.00	19.74
137		hexachlorobutadiene	0.684	0.707	-3.4	102	0.00	20.44
138		naphthalene	2.129	2.285	-7.3	111	0.00	20.59
139		1,2,4-trichlorobenzene	1.180	1.263	-7.0	108	0.00	20.33
140	m	1,2,3-trichlorobenzene	1.037	1.123	-8.3	108	0.00	20.81
141		hexachloroethane	0.541	0.536	0.9	102	0.00	19.08

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2D143788.D M2D6039.M Fri May 08 20:05:07 2015

6.7.3

6

Initial Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: V3C5457-ICC5457
Lab FileID: 3C119623.D

Response Factor Report MS3C

```
Method       : C:\MSDCHEM\1\METHODS\M3C5457.M (RTE Integrator)
Title        : Method SW846 8260C, ZB624 60m x 0.25mm x 1.4um
Last Update  : Tue May 05 16:14:27 2015
Response via : Initial Calibration

Calibration Files
8   =3C119621.D  4   =3C119620.D  0.5 =3C119617.D  50  =3C119623.D
100 =3C119624.D  1   =3C119618.D  200 =3C119625.D  20  =3C119622.D
2   =3C119619.D  0.2 =3C119616.D      =                =

Compound
        8     4     0.5   50    100   1     200   20    2     0.2    Avg   %RSD
-------------------------------------------------------------------------------

1) I   Tert Butyl Alcohol-d9 ----------------ISTD---------------------
2)  1,4-dioxane
     0.105 0.120       0.110 0.106       0.103 0.094              0.106    7.92
3)  tertiary butyl alcohol
     1.278 1.544       1.286 1.266       1.198 1.278              1.308    9.17
4)  ethanol
                                                                  0.000   -1.00

5) I   pentafluorobenzene    ----------------ISTD---------------------
6)  chlorodifluoromethane
     0.751 0.832 0.670 0.764 0.770 0.902 0.748 0.735 0.657        0.759    9.89
7)  dichlorodifluoromethane
     1.248 1.251 1.258 1.168 1.170 1.231 1.103 1.150 1.089 1.072  1.174    6.03
8)  chloromethane
     0.608 0.663       0.600 0.645       0.664 0.577 0.632        0.627    5.31
9)  vinyl chloride
     0.725 0.756 0.823 0.714 0.746 0.721 0.748 0.675 0.673 0.816  0.740    6.84
10)  bromomethane
     0.473 0.486       0.447 0.464 0.571 0.455 0.444 0.462        0.475    8.64
11)  chloroethane
     0.354 0.349       0.311 0.320 0.373 0.313 0.315 0.302        0.330    7.73
12)  1,3-butadiene
     0.178 0.179       0.173 0.183       0.181 0.168 0.168        0.176    3.53
13)  Vinyl Bromide
                                                                  0.000   -1.00
14)  Pentane
                                                                  0.000   -1.00
15)  trichlorofluoromethane
     0.980 1.013       0.914 0.917 1.107 0.881 0.903 0.960        0.959    7.71
16)  ethyl ether
     0.181 0.176       0.177 0.179       0.181 0.167 0.175        0.176    2.83
17)  acrolein
     0.041 0.041       0.044       0.052       0.044 0.046        0.045    8.87
18)  1,1-dichloroethene
     0.604 0.599 0.620 0.552 0.553 0.709 0.552 0.538 0.549        0.586    9.32
19)  acetone
     0.024             0.021 0.020       0.020 0.022              0.021    7.00
20)  allyl chloride
     0.162 0.190       0.161 0.158       0.158 0.153              0.164    8.07
21)  acetonitrile
     0.026             0.023 0.022       0.021 0.023              0.023    7.13
22)  iodomethane
     0.762 0.777 0.716 0.722 0.740 0.908 0.729 0.711 0.718 0.797  0.758    7.93
23)  iso-butyl alcohol
```

Initial Calibration Summary

Job Number: JB94209 **Sample:** V3C5457-ICC5457
Account: PTCNJB PT Consultants **Lab FileID:** 3C119623.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

```
      0.008 0.012       0.010 0.010       0.010 0.010 0.010        0.010   10.31
24)  carbon disulfide
      1.460 1.442 1.385 1.345 1.344 1.674 1.322 1.325 1.382 1.704  1.438    9.74
25)  methylene chloride
      0.411 0.450       0.383 0.389       0.383 0.382 0.450        0.407    7.62
26)  methyl acetate
      0.179 0.182       0.149 0.153       0.154 0.167              0.164    8.64
27)  methyl tert butyl ether
      1.359 1.374 1.457 1.352 1.373 1.604 1.376 1.291 1.225 1.551  1.396    8.14
28)  trans-1,2-dichloroethene
      0.545 0.527 0.554 0.507 0.505 0.694 0.502 0.496 0.482        0.535   11.98
29)  di-isopropyl ether
      1.151 1.195 1.197 1.181 1.211 1.314 1.218 1.167 1.055 1.342  1.203    6.69
30)  ethyl tert-butyl ether
      1.208 1.325 1.170 1.331 1.390 1.465 1.403 1.263 1.185 1.169  1.291    8.32
31)  2-butanone
      0.029             0.028 0.029       0.030 0.029              0.029    2.44
32)  1,1-dichloroethane
      0.648 0.628 0.756 0.629 0.644 0.745 0.636 0.630 0.609 0.650  0.657    7.68
33)  chloroprene
      0.541 0.503 0.527 0.519 0.523 0.654 0.519 0.515 0.529        0.537    8.42
34)  acrylonitrile
      0.075 0.073       0.077 0.077       0.075 0.075              0.075    1.79
35)  vinyl acetate
      0.040 0.041       0.051 0.053       0.054 0.046              0.048   12.79
36)  ethyl acetate
      0.028 0.030       0.032 0.029       0.032 0.031              0.030    4.95
37)  2,2-dichloropropane
      0.861 0.857 0.974 0.830 0.842 1.076 0.840 0.825 0.814        0.880    9.94
38)  cis-1,2-dichloroethene
      0.437 0.459 0.590 0.402 0.404 0.591 0.408 0.408 0.479        0.464   16.47
39)  propionitrile
      0.029 0.024       0.031 0.030       0.030 0.030              0.029    9.65
40)  Methyl Acrylate ** This compound does not meet initial calibration QC criteria **
                        0.035 0.035       0.035 0.028              0.033   11.20
41)  bromochloromethane
      0.202 0.177       0.183 0.186       0.184 0.176 0.169        0.182    5.61
42)  tetrahydrofuran
      0.038 0.032       0.032 0.034       0.033 0.030              0.033    7.93
43)  chloroform
      0.663 0.647 0.796 0.637 0.643 0.794 0.652 0.631 0.638 0.658  0.676    9.39
44)  tert-Butyl Formate
      0.309 0.309 0.281 0.327 0.340 0.301 0.338 0.322 0.322        0.317    5.97
45)  dibromofluoromethane (s)
      0.340 0.332 0.328 0.331 0.330 0.331 0.335 0.331 0.328 0.335  0.332    1.07
46)  1,2-dichloroethane-d4 (s)
      0.330 0.327 0.308 0.343 0.319 0.324 0.306 0.330 0.323 0.314  0.322    3.43
47)  freon 113
      0.470 0.486 0.405 0.447 0.448 0.508 0.430 0.447 0.479        0.458    6.83
48)  methacrylonitrile
      0.094             0.091 0.092       0.093 0.085              0.091    3.72
49)  1,1,1-trichloroethane
      0.848 0.804 0.805 0.796 0.822 0.980 0.817 0.791 0.786 0.828  0.828    6.85
50)  Cyclohexane
      0.799 0.778       0.748 0.760       0.763 0.726 0.757        0.762    2.99
51)  Tert Amyl Alcohol
                                                                   0.000   -1.00
52)  2,2,4-trimethylpentane
      1.433 1.480 1.510 1.480 1.591 1.673 1.666 1.363 1.355        1.506    7.80
53)  tert-amyl methyl ether
```

Initial Calibration Summary

Job Number: JB94209 **Sample:** V3C5457-ICC5457
Account: PTCNJB PT Consultants **Lab FileID:** 3C119623.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

```
      1.174 1.244       1.211 1.250       1.274 1.182 1.189        1.218    3.17

54) I   1,4-difluorobenzene   ----------------ISTD---------------------
55)  epichlorohydrin
      0.019 0.023       0.020 0.019       0.019 0.019 0.016        0.019    9.77
56)  n-butyl alcohol
      0.007 0.006       0.007 0.007       0.007 0.007              0.007    8.89
57)  carbon tetrachloride
      0.633 0.586 0.649 0.606 0.606 0.764 0.605 0.612 0.604        0.630    8.49
58)  1,1-dichloropropene
      0.427 0.401       0.403 0.403       0.401 0.411 0.399        0.406    2.45
59)  hexane
      0.413 0.431       0.373 0.361       0.352 0.377 0.420        0.390    8.06
60)  benzene
      1.284 1.199 1.287 1.193 1.178 1.700 1.193 1.210 1.158        1.267   13.29
61)  heptane
      0.233 0.241       0.228 0.224       0.215 0.230 0.234        0.229    3.66
62)  isopropyl acetate
      0.047 0.054       0.053 0.053       0.051 0.050              0.051    4.78
63)  1,2-dichloroethane
      0.367 0.354 0.400 0.361 0.357 0.429 0.353 0.362 0.342        0.370    7.45
64)  trichloroethene
      0.326 0.326 0.368 0.311 0.310 0.419 0.310 0.308 0.308        0.332   11.44
65)  ethyl acrylate
      0.197 0.185       0.228 0.230       0.234 0.204              0.213    9.66
66)  Tert-Amyl ethyl ether
                                                                   0.000   -1.00
67)  2-nitropropane
      0.080 0.096       0.073 0.076       0.073 0.081 0.080        0.080    9.59
68)  2-chloroethyl vinyl ether
      0.110 0.113 0.102 0.116 0.117 0.109 0.115 0.114 0.095 0.132  0.112    8.75
69)  methyl methacrylate
      0.056 0.054       0.057 0.062       0.064 0.058              0.059    6.45
70)  1,2-dichloropropane
      0.281 0.266 0.317 0.279 0.286 0.325 0.286 0.279 0.261        0.287    7.41
71)  methylcyclohexane
      0.677 0.664 0.688 0.639 0.651 0.783 0.653 0.637 0.639 0.837  0.687    9.92
72)  dibromomethane
      0.155 0.161       0.149 0.154       0.153 0.151 0.129        0.150    6.81
73)  bromodichloromethane
      0.388 0.381       0.413 0.412       0.411 0.394 0.357        0.394    5.17
74)  cis-1,3-dichloropropene
      0.447 0.452 0.467 0.450 0.461 0.566 0.468 0.436 0.429 0.497  0.467    8.49
75)  toluene-d8 (s)
      1.087 1.066 1.065 1.092 1.103 1.106 1.115 1.087 1.067 1.076  1.086    1.65
76)  4-methyl-2-pentanone
      0.077 0.064       0.079 0.081       0.082 0.076              0.077    8.48
77)  toluene
      1.299 1.289 1.609 1.259 1.260 1.721 1.272 1.262 1.298        1.363   12.78
78)  3-methyl-1-butanol
      0.006 0.007       0.008 0.008       0.008 0.007              0.007    9.71
79)  trans-1,3-dichloropropene
      0.406 0.420 0.415 0.400 0.412 0.495 0.409 0.390 0.371        0.413    8.29
80)  ethyl methacrylate
      0.252 0.244       0.281 0.296       0.300 0.269              0.274    8.34
81)  1,1,2-trichloroethane
      0.200 0.205       0.213 0.217       0.216 0.213 0.176        0.205    7.06
82)  2-hexanone
      0.063 0.046       0.071 0.071       0.065 0.063              0.063   14.49
```

Initial Calibration Summary

Job Number: JB94209 **Sample:** V3C5457-ICC5457
Account: PTCNJB PT Consultants **Lab FileID:** 3C119623.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

```
 83) I   chlorobenzene-d5      ----------------ISTD---------------------
 84)  tetrachloroethene
       0.489 0.471 0.525 0.470 0.468 0.619 0.457 0.458 0.483        0.493   10.45
 85)  1,3-dichloropropane
       0.472 0.475 0.513 0.470 0.480 0.591 0.465 0.461 0.507        0.492    8.31
 86)  butyl acetate
       0.143 0.150       0.160 0.159       0.156 0.157              0.154    4.34
 87)  dibromochloromethane
       0.374 0.362 0.356 0.390 0.390 0.431 0.386 0.385 0.336        0.379    7.08
 88)  1,2-dibromoethane
       0.262 0.253 0.275 0.284 0.281 0.297 0.275 0.278 0.246        0.272    5.89
 89)  3,3-Dimethyl-1-Butanol
       0.033 0.037       0.038 0.039       0.039 0.036 0.032        0.036    7.59
 90)  chlorobenzene
       1.064 0.980       1.030 1.040       1.031 1.037 0.941        1.018    4.16
 91)  1,1,1,2-tetrachloroethane
       0.491 0.430 0.417 0.491 0.497 0.559 0.497 0.473 0.433        0.477    9.26
 92)  ethylbenzene
       1.943 1.844 1.946 1.885 1.896 2.393 1.851 1.857 1.790        1.934    9.26
 93)  m,p-xylene
       0.735 0.693 0.945 0.705 0.714 0.947 0.702 0.696 0.649        0.754   14.74
 94)  o-xylene
       1.620 1.490 1.811 1.601 1.636 1.878 1.600 1.576 1.501        1.635    7.95
 95)  styrene
       1.066 1.030 1.006 1.094 1.134 1.296 1.116 1.090 0.953        1.087    8.91
 96)  butyl acrylate
                                                                    0.000   -1.00
 97)  n-butyl ether
                                                                    0.000   -1.00
 98)  bromoform
       0.250 0.227 0.229 0.253 0.263 0.281 0.260 0.243 0.214        0.247    8.34

 99) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
100)  isopropylbenzene
       3.653 3.388 3.652 3.845 3.910 4.023 3.949 3.664 3.267        3.706    6.89
101)  4-bromofluorobenzene (s)
       0.865 0.853 0.857 0.901 0.903 0.868 0.889 0.897 0.885 0.881  0.880    2.08
102)  bromobenzene
       0.853 0.864       0.865 0.864       0.872 0.848 0.758        0.847    4.69
103)  cis-1,4-dichloro-2-butene
       0.219 0.214       0.240 0.242 0.259 0.230 0.230 0.249        0.235    6.40
104)  cyclohexanone
       0.094 0.090       0.084 0.078       0.086 0.094 0.098        0.089    7.68
105)  1,1,2,2-tetrachloroethane
       0.657 0.632 0.680 0.670 0.674 0.750 0.686 0.649 0.667        0.674    4.92
106)  trans-1,4-dichloro-2-butene
       0.209 0.206       0.181 0.172       0.166 0.189 0.192        0.188    8.55
107)  1,2,3-trichloropropane
       0.200 0.180       0.201 0.203       0.199 0.198 0.158        0.191    8.67
108)  n-propylbenzene
       3.852 3.789 4.276 3.862 3.876 4.691 3.896 3.827 3.785        3.984    7.63
109)  4-Ethyltoluene
       2.975 2.935       2.932 2.986 3.543 3.004 2.942 3.050        3.046    6.72
110)  2-chlorotoluene
       0.865 0.828       0.852 0.865 1.016 0.878 0.835 0.732        0.859    9.10
111)  4-chlorotoluene
       0.830 0.763       0.819 0.809       0.828 0.775 0.769        0.799    3.62
112)  1,3,5-trimethylbenzene
       3.121 3.147 3.260 3.275 3.375 3.640 3.454 3.165 2.838        3.253    6.99
113)  tert-butylbenzene
```

Initial Calibration Summary

Job Number: JB94209 **Sample:** V3C5457-ICC5457
Account: PTCNJB PT Consultants **Lab FileID:** 3C119623.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

```
       2.661 2.576 2.478 2.903 2.913 2.941 3.017 2.701 2.594 2.561  2.734    7.00
114)  pentachloroethane
       0.632 0.563       0.710 0.730       0.775 0.654              0.677   11.25
115)  1,2,4-trimethylbenzene
       3.059 2.868 3.485 3.155 3.197 3.812 3.292 3.026 2.790        3.187    9.88
116)  sec-butylbenzene
       4.076 3.952 3.612 4.324 4.443 4.720 4.601 4.079 3.772        4.175    8.96
117)  1,3-dichlorobenzene
       1.798 1.764 1.923 1.733 1.733 2.019 1.735 1.784 1.671        1.796    6.05
118)  p-isopropyltoluene
       3.586 3.369 3.877 3.652 3.791 4.320 3.877 3.507 3.324        3.700    8.33
119)  1,4-dichlorobenzene
       1.797 1.764 2.050 1.730 1.736 2.186 1.733 1.758 1.692        1.827    9.34
120)  1,2-dichlorobenzene
       1.758 1.709 1.933 1.704 1.716 1.873 1.774 1.736 1.645 2.063  1.791    7.13
121)  1,4-Diethylbenzene
       1.926 1.993       1.929 1.952 2.101 1.962 1.914 2.060        1.980    3.42
122)  n-butylbenzene
       1.853 1.798       1.803 1.780       1.806 1.764 1.829        1.805    1.63
123)  1,2,4,5-Tetramethylbenzene
       3.378 3.490       3.552 3.789 3.965 4.046 3.458 3.581        3.657    6.74
124)  1,2-dibromo-3-chloropropane
       0.184 0.191       0.210 0.206 0.202 0.217 0.189 0.143        0.193   11.93
125)  1,3,5-Trichlorobenzene
       1.797 1.876 1.840 1.812 1.908 2.206 2.034 1.815 1.816        1.900    7.16
126)  1,2,4-trichlorobenzene
       1.682 1.677       1.820 1.924       2.056 1.804              1.827    7.97
127)  hexachlorobutadiene
       1.055 1.061 1.173 1.036 1.097 1.315 1.228 1.009 0.987        1.107    9.91
128)  naphthalene
       3.241 3.030       3.730 3.838       4.026 3.531              3.566   10.54
129)  1,2,3-trichlorobenzene
       1.760 1.703       1.914 2.003 1.979 2.106 1.821 1.621        1.864    8.86
130)  hexachloroethane
       0.616 0.663       0.686 0.719       0.808 0.631 0.649        0.682    9.61
131)  Benzyl chloride
       1.358 1.500       1.391 1.363 1.729 1.351 1.379 1.502        1.447    8.96
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M3C5457.M         Tue May 05 16:16:13 2015   MS3C
```

6.7.4

6

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: V3C5457-ICV5457
Lab FileID: 3C119628.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\3C119628.D Vial: 14
Acq On : 29 Apr 2015 11:31 pm Operator: prashans
Sample : ICV5457-50 Inst : MS3C
Misc : MS83746,V3C5457,5.0,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M3C5457.M (RTE Integrator)
Title : Method SW846 8260C, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue May 05 16:14:27 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	102	0.00	7.09
2	1,4-dioxane	0.106	0.114	-7.5	106	0.00	10.99
3	tertiary butyl alcohol	1.308	1.344	-2.8	107	0.00	7.21
4	ethanol		----------NA----------				
5 I	pentafluorobenzene	1.000	1.000	0.0	105	0.00	9.34
6	chlorodifluoromethane	0.759	0.655	13.7	90	0.00	3.79
7	dichlorodifluoromethane	1.174	1.111	5.4	99	-0.02	3.79
8	chloromethane	0.627	0.597	4.8	104	0.00	4.10
9	vinyl chloride	0.740	0.689	6.9	101	0.00	4.35
10	bromomethane	0.475	0.433	8.8	101	-0.01	4.98
11	chloroethane	0.330	0.308	6.7	104	-0.02	5.14
12	1,3-butadiene	0.176	0.171	2.8	103	-0.01	4.40
13	Vinyl Bromide		----------NA----------				
14	Pentane		----------NA----------				
15	trichlorofluoromethane	0.959	0.853	11.1	98	0.00	5.60
16	ethyl ether	0.176	0.184	-4.5	109	0.00	6.01
17	acrolein	0.045	0.043	4.4	102	0.00	6.24
18	1,1-dichloroethene	0.586	0.545	7.0	103	0.00	6.41
19	acetone	0.021	0.022	-4.8	110	0.00	6.46
20	allyl chloride	0.164	0.177	-7.9	115	0.00	6.95
21	acetonitrile	0.023	0.024	-4.3	106	-0.01	6.89
22	iodomethane	0.758	0.713	5.9	103	0.00	6.69
23	iso-butyl alcohol	0.010	0.009	10.0	101	0.00	9.64
24	carbon disulfide	1.438	1.319	8.3	103	0.00	6.82
25	methylene chloride	0.407	0.388	4.7	106	0.00	7.13
26	methyl acetate	0.164	0.161	1.8	113	0.00	6.94
27	methyl tert butyl ether	1.396	1.279	8.4	99	0.00	7.47
28	trans-1,2-dichloroethene	0.535	0.512	4.3	106	0.00	7.51
29	di-isopropyl ether	1.203	1.188	1.2	105	0.00	8.07
30	ethyl tert-butyl ether	1.291	1.270	1.6	100	0.00	8.53
31	2-butanone	0.029	0.028	3.4	104	-0.02	8.79
32	1,1-dichloroethane	0.657	0.641	2.4	107	0.00	8.07
33	chloroprene	0.537	0.456	15.1	92	0.00	8.19
34	acrylonitrile	0.075	0.084	-12.0	114	0.00	7.45
35	vinyl acetate	0.048	0.056	-16.7	114	0.00	8.08
36	ethyl acetate	0.030	0.033	-10.0	108	-0.01	8.80
37	2,2-dichloropropane	0.880	0.786	10.7	99	0.00	8.81
38	cis-1,2-dichloroethene	0.464	0.419	9.7	109	0.00	8.81
39	propionitrile	0.029	0.032	-10.3	107	0.00	8.87
40	Methyl Acrylate	0.033	0.035	-6.1	105	-0.01	8.89
41	bromochloromethane	0.182	0.185	-1.6	106	0.00	9.12

Initial Calibration Verification

Job Number: JB94209 **Sample:** V3C5457-ICV5457
Account: PTCNJB PT Consultants **Lab FileID:** 3C119628.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

42		tetrahydrofuran	0.033	0.035	-6.1	115	0.00	9.18
43		chloroform	0.676	0.655	3.1	107	0.00	9.18
44		tert-Butyl Formate	0.317	0.336	-6.0	107	0.00	9.22
45	S	dibromofluoromethane (s)	0.332	0.328	1.2	104	0.00	9.38
46	S	1,2-dichloroethane-d4 (s)	0.322	0.304	5.6	93	0.00	9.80
47		freon 113	0.458	0.426	7.0	100	-0.01	6.39
48		methacrylonitrile	0.091	0.090	1.1	104	0.00	9.06
49		1,1,1-trichloroethane	0.828	0.769	7.1	101	0.00	9.44
50		Cyclohexane	0.762	0.715	6.2	100	0.00	9.52
51		Tert Amyl Alcohol		----------NA----------				
52		2,2,4-trimethylpentane	1.506	1.326	12.0	94	0.00	9.89
53		tert-amyl methyl ether	1.218	1.175	3.5	102	0.00	9.92
54	I	1,4-difluorobenzene	1.000	1.000	0.0	106	0.00	10.26
55		epichlorohydrin	0.019	0.020	-5.3	106	0.00	11.52
56		n-butyl alcohol	0.007	0.008	-14.3	119	0.00	10.39
57		carbon tetrachloride	0.630	0.570	9.5	99	0.00	9.65
58		1,1-dichloropropene	0.406	0.410	-1.0	108	0.00	9.62
59		hexane	0.390	0.348	10.8	98	0.00	7.82
60		benzene	1.267	1.242	2.0	110	0.00	9.88
61		heptane	0.229	0.217	5.2	100	0.00	10.06
62		isopropyl acetate	0.051	0.050	2.0	100	0.00	9.80
63		1,2-dichloroethane	0.370	0.365	1.4	107	0.00	9.89
64		trichloroethene	0.332	0.315	5.1	107	0.00	10.60
65		ethyl acrylate	0.213	0.226	-6.1	105	0.00	10.61
66		Tert-Amyl ethyl ether		----------NA----------				
67		2-nitropropane	0.080	0.083	-3.8	120	0.00	11.37
68		2-chloroethyl vinyl ether	0.112	0.125	-11.6	113	0.00	11.40
69		methyl methacrylate	0.059	0.062	-5.1	116	0.00	10.88
70		1,2-dichloropropane	0.287	0.292	-1.7	110	0.00	10.87
71		methylcyclohexane	0.687	0.598	13.0	99	0.00	10.83
72		dibromomethane	0.150	0.155	-3.3	109	0.00	11.02
73		bromodichloromethane	0.394	0.407	-3.3	104	0.00	11.16
74		cis-1,3-dichloropropene	0.467	0.460	1.5	108	0.00	11.62
75	S	toluene-d8 (s)	1.086	1.075	1.0	104	0.00	11.91
76		4-methyl-2-pentanone	0.077	0.080	-3.9	106	0.00	11.71
77		toluene	1.363	1.283	5.9	108	0.00	11.98
78		3-methyl-1-butanol	0.007	0.008	-14.3	109	0.00	11.74
79		trans-1,3-dichloropropene	0.413	0.402	2.7	106	0.00	12.18
80		ethyl methacrylate	0.274	0.284	-3.6	107	0.00	12.18
81		1,1,2-trichloroethane	0.205	0.212	-3.4	105	0.00	12.39
82		2-hexanone	0.063	0.070	-11.1	105	0.00	12.57
83	I	chlorobenzene-d5	1.000	1.000	0.0	103	0.00	13.42
84		tetrachloroethene	0.493	0.486	1.4	106	0.00	12.57
85		1,3-dichloropropane	0.492	0.489	0.6	107	0.00	12.57
86		butyl acetate	0.154	0.169	-9.7	108	0.00	12.64
87		dibromochloromethane	0.379	0.387	-2.1	102	0.00	12.84
88		1,2-dibromoethane	0.272	0.292	-7.4	106	0.00	12.98
89		3,3-Dimethyl-1-Butanol	0.036	0.037	-2.8	99	0.00	12.74
90		chlorobenzene	1.018	1.085	-6.6	108	0.00	13.44
91		1,1,1,2-tetrachloroethane	0.477	0.493	-3.4	103	0.00	13.51
92		ethylbenzene	1.934	1.902	1.7	104	0.00	13.51
93		m,p-xylene	0.754	0.725	3.8	106	0.00	13.61
94		o-xylene	1.635	1.633	0.1	105	0.00	14.02
95		styrene	1.087	1.150	-5.8	108	0.00	14.03
96		butyl acrylate		----------NA----------				
97		n-butyl ether		----------NA----------				
98		bromoform	0.247	0.256	-3.6	104	0.00	14.29

Initial Calibration Verification

Job Number: JB94209 **Sample:** V3C5457-ICV5457
Account: PTCNJB PT Consultants **Lab FileID:** 3C119628.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

99	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	103	0.00	15.71
100		isopropylbenzene	3.706	3.880	-4.7	104	0.00	14.36
101	S	4-bromofluorobenzene (s)	0.880	0.899	-2.2	102	0.00	14.56
102		bromobenzene	0.847	0.899	-6.1	107	0.00	14.75
103		cis-1,4-dichloro-2-butene	0.235	0.239	-1.7	102	0.00	14.43
104		cyclohexanone	0.089	0.083	6.7	101	0.00	14.52
105		1,1,2,2-tetrachloroethane	0.674	0.686	-1.8	105	0.00	14.66
106		trans-1,4-dichloro-2-bute	0.188	0.179	4.8	101	0.00	14.70
107		1,2,3-trichloropropane	0.191	0.195	-2.1	100	0.00	14.73
108		n-propylbenzene	3.984	3.957	0.7	105	0.00	14.77
109		4-Ethyltoluene	3.046	2.987	1.9	105	0.00	14.87
110		2-chlorotoluene	0.859	0.856	0.3	103	0.00	14.91
111		4-chlorotoluene	0.799	0.851	-6.5	107	0.00	15.01
112		1,3,5-trimethylbenzene	3.253	3.327	-2.3	104	0.00	14.92
113		tert-butylbenzene	2.734	2.884	-5.5	102	0.00	15.26
114		pentachloroethane	0.677	0.707	-4.4	102	0.00	15.34
115		1,2,4-trimethylbenzene	3.187	3.170	0.5	103	0.00	15.31
116		sec-butylbenzene	4.175	4.312	-3.3	102	0.00	15.47
117		1,3-dichlorobenzene	1.796	1.769	1.5	105	0.00	15.66
118		p-isopropyltoluene	3.700	3.652	1.3	103	0.00	15.59
119		1,4-dichlorobenzene	1.827	1.761	3.6	104	0.00	15.74
120		1,2-dichlorobenzene	1.791	1.765	1.5	106	0.00	16.13
121		1,4-Diethylbenzene	1.980	1.924	2.8	102	0.00	15.97
122		n-butylbenzene	1.805	1.768	2.0	101	0.00	16.01
123		1,2,4,5-Tetramethylbenzen	3.657	3.677	-0.5	106	0.00	16.75
124		1,2-dibromo-3-chloropropa	0.193	0.205	-6.2	100	0.00	16.90
125		1,3,5-Trichlorobenzene	1.900	1.817	4.4	103	0.00	17.08
126		1,2,4-trichlorobenzene	1.827	1.830	-0.2	103	0.00	17.71
127		hexachlorobutadiene	1.107	1.073	3.1	106	0.00	17.83
128		naphthalene	3.566	3.790	-6.3	104	0.00	17.98
129		1,2,3-trichlorobenzene	1.864	1.958	-5.0	105	0.00	18.22
130		hexachloroethane	0.682	0.704	-3.2	105	0.00	16.39
131		Benzyl chloride	1.447	1.404	3.0	104	0.00	15.85

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3C119623.D M3C5457.M Tue May 05 16:15:53 2015 MS3C

6.7.5
6

Continuing Calibration Summary

Job Number: JB94209 **Sample:** V3C5467-CC5457
Account: PTCNJB PT Consultants **Lab FileID:** 3C119817.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\3C119817.D Vial: 2
Acq On : 10 May 2015 10:41 am Operator: prashans
Sample : CC5457-20 Inst : MS3C
Misc : MS84574,V3C5467,5.0,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M3C5457.M (RTE Integrator)
Title : Method SW846 8260C, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue May 05 16:14:27 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	115	0.00	7.09
2	1,4-dioxane	0.106	0.096	9.4	118	0.00	10.99
3	tertiary butyl alcohol	1.308	1.259	3.7	114	0.00	7.21
4	ethanol		----------NA----------				
5 I	pentafluorobenzene	1.000	1.000	0.0	102	0.00	9.34
6	chlorodifluoromethane	0.759	0.980	-29.1#	136	0.00	3.79
7	dichlorodifluoromethane	1.174	1.297	-10.5	115	0.00	3.80
8	chloromethane	0.627	0.630	-0.5	112	0.00	4.10
9	vinyl chloride	0.740	0.760	-2.7	115	0.00	4.35
10	bromomethane	0.475	0.461	2.9	106	-0.01	4.98
11	chloroethane	0.330	0.326	1.2	106	-0.01	5.15
12	1,3-butadiene		----------NA----------				
13	Vinyl Bromide		----------NA----------				
14	Pentane		----------NA----------				
15	trichlorofluoromethane	0.959	1.050	-9.5	119	-0.01	5.59
16	ethyl ether	0.176	0.183	-4.0	113	0.00	6.00
17	acrolein	0.045	0.047	-4.4	111	0.00	6.24
18	1,1-dichloroethene	0.586	0.624	-6.5	119	0.00	6.41
19	acetone	0.021	0.025	-19.0	117	0.02	6.48
20	allyl chloride	0.164	0.195	-18.9	130	0.00	6.94
21	acetonitrile	0.023	0.027	-17.4	119	-0.01	6.89
22	iodomethane	0.758	0.786	-3.7	113	0.00	6.69
23	iso-butyl alcohol	0.010	0.010	0.0	102	-0.02	9.62
24	carbon disulfide	1.438	1.546	-7.5	119	0.00	6.82
25	methylene chloride	0.407	0.423	-3.9	113	0.00	7.13
26	methyl acetate	0.164	0.166	-1.2	102	0.00	6.94
27	methyl tert butyl ether	1.396	1.432	-2.6	113	-0.01	7.46
28	trans-1,2-dichloroethene	0.535	0.570	-6.5	117	0.00	7.51
29	di-isopropyl ether	1.203	1.229	-2.2	108	0.00	8.06
30	ethyl tert-butyl ether	1.291	1.369	-6.0	111	0.00	8.53
31	2-butanone	0.029	0.034	-17.2	120	0.00	8.81
32	1,1-dichloroethane	0.657	0.695	-5.8	113	0.00	8.07
33	chloroprene	0.537	0.586	-9.1	116	0.00	8.18
34	acrylonitrile	0.075	0.078	-4.0	106	0.00	7.45
35	vinyl acetate	0.048	0.046	4.2	102	0.00	8.08
36	ethyl acetate	0.030	0.028	6.7	93	0.00	8.81
37	2,2-dichloropropane	0.880	0.930	-5.7	115	0.00	8.82
38	cis-1,2-dichloroethene	0.464	0.423	8.8	106	0.00	8.81
39	propionitrile	0.029	0.031	-6.9	106	0.00	8.87
40	Methyl Acrylate	0.033	0.028	15.2	105	0.00	8.89
41	bromochloromethane	0.182	0.187	-2.7	109	-0.01	9.12

Continuing Calibration Summary

Job Number: JB94209 **Sample:** V3C5467-CC5457
Account: PTCNJB PT Consultants **Lab FileID:** 3C119817.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

42		tetrahydrofuran	0.033	0.033	0.0	111	0.00	9.17
43		chloroform	0.676	0.704	-4.1	114	-0.01	9.18
44		tert-Butyl Formate	0.317	0.332	-4.7	105	-0.01	9.21
45	S	dibromofluoromethane (s)	0.332	0.336	-1.2	104	-0.01	9.37
46	S	1,2-dichloroethane-d4 (s)	0.322	0.363	-12.7	113	0.00	9.80
47		freon 113	0.458	0.528	-15.3	121	0.00	6.40
48		methacrylonitrile	0.091	0.091	0.0	108	0.00	9.07
49		1,1,1-trichloroethane	0.828	0.901	-8.8	116	0.00	9.44
50		Cyclohexane	0.762	0.839	-10.1	118	0.00	9.52
51		Tert Amyl Alcohol		----------NA----------				
52		2,2,4-trimethylpentane	1.506	1.612	-7.0	121	0.00	9.89
53		tert-amyl methyl ether	1.218	1.260	-3.4	109	0.00	9.92
54	I	1,4-difluorobenzene	1.000	1.000	0.0	105	0.00	10.25
55		epichlorohydrin	0.019	0.020	-5.3	110	0.00	11.52
56		n-butyl alcohol	0.007	0.007	0.0	113	0.00	10.39
57		carbon tetrachloride	0.630	0.681	-8.1	117	0.00	9.65
58		1,1-dichloropropene	0.406	0.462	-13.8	118	0.00	9.62
59		hexane	0.390	0.426	-9.2	119	0.00	7.83
60		benzene	1.267	1.309	-3.3	113	0.00	9.88
61		heptane	0.229	0.252	-10.0	115	0.00	10.06
62		isopropyl acetate	0.051	0.048	5.9	101	0.00	9.81
63		1,2-dichloroethane	0.370	0.391	-5.7	113	0.00	9.89
64		trichloroethene	0.332	0.346	-4.2	118	0.00	10.60
65		ethyl acrylate		----------NA----------				
66		Tert-Amyl ethyl ether		----------NA----------				
67		2-nitropropane	0.080	0.084	-5.0	108	0.00	11.38
68		2-chloroethyl vinyl ether	0.112	0.120	-7.1	111	0.00	11.40
69		methyl methacrylate	0.059	0.060	-1.7	108	0.01	10.89
70		1,2-dichloropropane	0.287	0.305	-6.3	115	0.00	10.86
71		methylcyclohexane	0.687	0.710	-3.3	117	0.00	10.83
72		dibromomethane	0.150	0.161	-7.3	111	0.00	11.03
73		bromodichloromethane	0.394	0.436	-10.7	116	0.00	11.15
74		cis-1,3-dichloropropene	0.467	0.484	-3.6	117	0.00	11.62
75	S	toluene-d8 (s)	1.086	1.091	-0.5	105	0.00	11.91
76		4-methyl-2-pentanone	0.077	0.081	-5.2	112	0.00	11.71
77		toluene	1.363	1.352	0.8	112	0.00	11.98
78		3-methyl-1-butanol	0.007	0.008	-14.3	110	0.00	11.74
79		trans-1,3-dichloropropene	0.413	0.440	-6.5	118	0.00	12.18
80		ethyl methacrylate	0.274	0.283	-3.3	110	0.00	12.18
81		1,1,2-trichloroethane	0.205	0.232	-13.2	114	0.00	12.39
82		2-hexanone	0.063	0.063	0.0	105	0.01	12.58
83	I	chlorobenzene-d5	1.000	1.000	0.0	110	0.00	13.42
84		tetrachloroethene	0.493	0.489	0.8	117	0.00	12.57
85		1,3-dichloropropane	0.492	0.490	0.4	117	0.00	12.58
86		butyl acetate	0.154	0.167	-8.4	116	0.00	12.65
87		dibromochloromethane	0.379	0.393	-3.7	112	0.00	12.84
88		1,2-dibromoethane	0.272	0.284	-4.4	112	0.00	12.99
89		3,3-Dimethyl-1-Butanol	0.036	0.037	-2.8	111	0.00	12.74
90		chlorobenzene	1.018	1.083	-6.4	115	0.00	13.45
91		1,1,1,2-tetrachloroethane	0.477	0.469	1.7	109	0.00	13.51
92		ethylbenzene	1.934	1.974	-2.1	117	0.00	13.50
93		m,p-xylene	0.754	0.742	1.6	117	0.00	13.61
94		o-xylene	1.635	1.658	-1.4	115	0.00	14.02
95		styrene	1.087	1.143	-5.2	115	0.00	14.03
96		butyl acrylate		----------NA----------				
97		n-butyl ether		----------NA----------				
98		bromoform	0.247	0.269	-8.9	122	0.00	14.29

Continuing Calibration Summary

Job Number: JB94209 **Sample:** V3C5467-CC5457
Account: PTCNJB PT Consultants **Lab FileID:** 3C119817.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

99	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	120	0.00	15.72
100		isopropylbenzene	3.706	3.531	4.7	116	0.00	14.36
101	S	4-bromofluorobenzene (s)	0.880	0.868	1.4	116	0.00	14.56
102		bromobenzene	0.847	0.838	1.1	119	0.00	14.76
103		cis-1,4-dichloro-2-butene		----------NA----------				
104		cyclohexanone	0.089	0.097	-9.0	125	0.00	14.52
105		1,1,2,2-tetrachloroethane	0.674	0.657	2.5	122	0.00	14.66
106		trans-1,4-dichloro-2-bute	0.188	0.190	-1.1	121	0.00	14.70
107		1,2,3-trichloropropane	0.191	0.191	0.0	116	0.00	14.74
108		n-propylbenzene	3.984	3.864	3.0	121	0.00	14.77
109		4-Ethyltoluene		----------NA----------				
110		2-chlorotoluene	0.859	0.831	3.3	120	0.00	14.91
111		4-chlorotoluene	0.799	0.831	-4.0	129	0.00	15.01
112		1,3,5-trimethylbenzene	3.253	3.062	5.9	116	0.00	14.92
113		tert-butylbenzene	2.734	2.460	10.0	109	0.00	15.26
114		pentachloroethane	0.677	0.590	12.9	108	0.00	15.34
115		1,2,4-trimethylbenzene	3.187	3.042	4.5	121	0.00	15.31
116		sec-butylbenzene	4.175	4.034	3.4	119	0.00	15.47
117		1,3-dichlorobenzene	1.796	1.767	1.6	119	0.00	15.66
118		p-isopropyltoluene	3.700	3.556	3.9	122	0.00	15.59
119		1,4-dichlorobenzene	1.827	1.821	0.3	124	0.00	15.74
120		1,2-dichlorobenzene	1.791	1.777	0.8	123	0.00	16.13
121		1,4-Diethylbenzene		----------NA----------				
122		n-butylbenzene	1.805	1.804	0.1	123	0.00	16.01
123		1,2,4,5-Tetramethylbenzen		----------NA----------				
124		1,2-dibromo-3-chloropropa	0.193	0.199	-3.1	126	0.00	16.89
125		1,3,5-Trichlorobenzene	1.900	1.941	-2.2	128	0.00	17.08
126		1,2,4-trichlorobenzene	1.827	1.760	3.7	117	0.00	17.71
127		hexachlorobutadiene	1.107	1.090	1.5	130	0.00	17.83
128		naphthalene	3.566	3.318	7.0	113	0.00	17.98
129		1,2,3-trichlorobenzene	1.864	1.749	6.2	115	0.00	18.22
130		hexachloroethane	0.682	0.600	12.0	114	0.00	16.39
131		Benzyl chloride	1.447	1.589	-9.8	138	0.00	15.85

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3C119622.D M3C5457.M Mon May 11 12:03:20 2015 MS3C

Initial Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: VI8156-ICC8156
Lab FileID: I202970.D

Response Factor Report MSI

Method : C:\MSDCHEM\1\METHODS\MI8156.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Mon Apr 13 15:39:01 2015
Response via : Initial Calibration

Calibration Files
0.2 =I202963.D 0.5 =I202964.D 1 =I202965.D 2 =I202966.D
5 =I202967.D 10 =I202968.D 20 =I202969.D 50 =I202970.D
100 =I202971.D 200 =I202972.D = =

Compound	0.2	0.5	1	2	5	10	20	50	100	200	Avg	%RSD
1) I Tert Butyl Alcohol-d9 ----------ISTD----------												
2) ethanol											0.000	-1.00
3) tertiary butyl alcohol	1.935	1.905	1.654	1.688	1.647	1.785	1.523	1.629			1.721	8.29
4) 1,4-dioxane			0.107	0.113	0.122	0.106	0.131	0.093	0.111		0.112	10.84
5) I pentafluorobenzene ----------ISTD----------												
6) dichlorodifluoromethane	1.619	1.418	1.623	1.610	1.508	1.690	1.803	1.836	1.921		1.670	9.64
7) chlorodifluoromethane	1.918	1.580	1.684	1.700	1.731	1.752	1.796	1.748	1.904		1.757	6.03
8) chloromethane	1.471	1.871	1.674	1.555	1.672	1.725	1.814	1.985			1.721	9.72
9) vinyl chloride	1.505	1.316	1.494	1.446	1.408	1.554	1.627	1.705	1.828		1.543	10.20
10) bromomethane	0.740	0.599	0.640	0.623	0.661	0.685	0.677	0.723			0.668	7.22
11) chloroethane	0.595	0.657	0.565	0.548	0.584	0.568	0.607	0.646			0.596	6.49
12) trichlorofluoromethane	1.195	0.965	1.148	1.143	1.080	1.203	1.248	1.269	1.357		1.179	9.64
13) ethyl ether	0.289	0.299	0.281	0.267	0.262	0.264	0.275	0.258	0.280		0.275	4.94
14) acrolein	0.085	0.108	0.090	0.081	0.087	0.094	0.086	0.090			0.090	8.99
15) 2-chloropropane	0.281	0.279	0.321	0.329	0.329	0.314	0.303	0.336			0.312	7.00
16) freon 113	0.416	0.394	0.480	0.488	0.528	0.542	0.535	0.532	0.591		0.501	12.63
17) 1,1-dichloroethene	1.064	0.928	1.022	1.096	1.133	1.163	1.118	1.084	1.182		1.088	7.12
18) acetone			0.051	0.054	0.038	0.045	0.035	0.038			0.044	17.92
19) iodomethane	0.908	0.874	0.973	1.002	1.036	1.058	1.059	1.001	1.124		1.004	7.76
20) carbon disulfide	2.085	2.343	2.190	2.375	2.557	2.639	2.691	2.612	2.491	2.743	2.473	8.86
21) methyl acetate			0.054	0.061	0.053	0.071	0.060	0.070			0.061	12.58
22) allyl chloride	0.277	0.294	0.322	0.334	0.324	0.334	0.312	0.344			0.318	7.04
23) acetonitrile **This compound did not meet initial criteria												

Initial Calibration Summary

Job Number: JB94209 **Sample:** VI8156-ICC8156
Account: PTCNJB PT Consultants **Lab FileID:** I202970.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

```
                                    0.033 0.041 0.047 0.054 0.064  0.048   24.67
24)  methylene chloride
                              0.742 0.746 0.716 0.654 0.614 0.680  0.692    7.58
25)  1-chloropropane
                        1.492 1.562 1.565 1.425 1.437 1.326 1.448  1.465    5.72
26)  acrylonitrile
                  0.155 0.153 0.159 0.152 0.149 0.174 0.147 0.166  0.157    5.79
27)  methyl tert butyl ether
             2.172 1.661 1.922 1.786 1.923 1.946 2.012 1.967 2.216  1.956    8.78
28)  trans-1,2-dichloroethene
                  0.719 0.558 0.667 0.627 0.625 0.621 0.574 0.636  0.628    8.03
29)  hexane
                  1.142 0.997 1.019 0.970 0.937 0.960 0.889 0.996  0.989    7.46
30)  di-isopropyl ether
             2.334 2.590 2.705 2.537 2.615 2.633 2.774 2.572 2.939  2.633    6.35
31)  vinyl acetate
                                    0.045 0.038 0.042 0.037 0.051  0.043   12.84
32)  1,1-dichloroethane
             1.148 1.126 1.200 1.267 1.314 1.263 1.316 1.204 1.332  1.241    6.07
33)  chloroprene
             0.934 0.892 0.923 1.022 1.054 1.008 1.093 0.991 1.117  1.004    7.69
34)  ethyl tert-butyl ether
             2.134 1.965 2.162 2.023 2.148 2.235 2.397 2.335 2.702  2.233    9.95
35)  2-butanone
                                    0.034 0.042 0.049 0.041 0.048  0.043   13.83
36)  ethyl acetate   **This compound did not meet initial criteria
                                    0.058 0.056 0.069 0.060 0.071  0.063   11.02
37)  2,2-dichloropropane
                  1.225 1.234 1.288 1.284 1.313 1.313 1.277 1.433  1.296    4.95
38)  cis-1,2-dichloroethene
                  0.746 0.635 0.653 0.683 0.649 0.669 0.600 0.672  0.663    6.37
39)  methacrylonitrile
                              0.169 0.164 0.143 0.170 0.149 0.168  0.161    7.27
40)  propionitrile
                              0.065 0.060 0.056 0.074 0.056 0.065  0.063   10.85
41)  bromochloromethane
                  0.233 0.246 0.246 0.247 0.246 0.265 0.234 0.267  0.248    4.96
42)  tetrahydrofuran
                              0.055 0.052 0.046 0.055 0.045 0.052  0.051    8.07
43)  chloroform
             1.299 1.066 1.064 1.092 1.083 1.060 1.121 1.019 1.131  1.104    7.30
44)  tert-Butyl Formate
                  0.480 0.499 0.437 0.481 0.494 0.547 0.512 0.591  0.505    9.19
45)  dibromofluoromethane (s)
                              0.515 0.482 0.545 0.552 0.488 0.561  0.524    6.46
46)  1,1,1-trichloroethane
             1.041 0.927 1.012 1.086 1.130 1.138 1.159 1.118 1.271  1.098    8.93
47)  cyclohexane
      0.993 1.125 0.943 1.059 1.145 1.120 1.179 1.161 1.160 1.300  1.119    8.97

48) I   1,4-difluorobenzene   ----------------ISTD---------------------
49)   1,2-dichloroethane-d4 (s)
                              0.422 0.409 0.466 0.465 0.415 0.472  0.442    6.59
50)  iso-butyl alcohol
                              0.015 0.018 0.016 0.024 0.018 0.023  0.019   18.83
51)  1,1-dichloropropene
      0.578 0.615 0.642 0.620 0.723 0.735 0.717 0.744 0.676 0.758  0.681    9.29
52)  carbon tetrachloride
      0.644 0.715 0.626 0.692 0.752 0.764 0.771 0.771 0.754 0.862  0.735    9.36
53)  isopropyl acetate
```

Initial Calibration Summary

Job Number: JB94209 **Sample:** VI8156-ICC8156
Account: PTCNJB PT Consultants **Lab FileID:** I202970.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

```
                                0.108 0.112 0.128 0.162 0.141 0.164  0.136   17.79
54)  benzene
      2.253 2.106 1.864 1.963 2.136 2.136 2.032 2.126 1.938 2.175  2.073    5.80
55)  2,2,4-trimethylpentane
            2.126 1.917 2.059 2.201 2.264 2.273 2.445 2.528 3.128  2.327   15.19
56)  tert-amyl methyl ether
      1.532 1.508 1.165 1.446 1.358 1.410 1.443 1.547 1.524 1.777  1.471   10.60
57)  1,2-dichloroethane
            0.512 0.506 0.531 0.560 0.554 0.546 0.582 0.529 0.595  0.546    5.52
58)  heptane
                  0.508 0.447 0.466 0.465 0.424 0.462 0.425 0.481  0.460    6.06
59)  n-butyl alcohol
                                0.010 0.010 0.009 0.014 0.010 0.013  0.011   17.79
60)  trichloroethene
            0.452 0.425 0.463 0.500 0.500 0.483 0.513 0.468 0.521  0.481    6.50
61)  methyl acrylate
                                                                     0.000   -1.00
62)  methyl methacrylate
                  0.194 0.241 0.165 0.185 0.194 0.231 0.222 0.257  0.211   14.85
63)  1,2-dichloropropane
      0.536 0.533 0.478 0.527 0.547 0.564 0.543 0.589 0.526 0.589  0.543    6.01
64)  methylcyclohexane
      0.833 0.858 0.803 0.875 0.928 0.922 0.958 0.995 0.973 1.136  0.928   10.36
65)  dibromomethane
            0.243 0.207 0.227 0.229 0.236 0.225 0.246 0.223 0.251  0.232    5.84
66)  bromodichloromethane
            0.607 0.565 0.568 0.594 0.601 0.587 0.642 0.580 0.655  0.600    5.18
67)  2-nitropropane
                                0.075 0.067 0.072 0.081 0.072 0.082  0.075    8.19
68)  2-chloroethyl vinyl ether
            0.188 0.178 0.197 0.203 0.207 0.202 0.238 0.202 0.230  0.205    9.09
69)  epichlorohydrin
                        0.047 0.042 0.039 0.038 0.046 0.040 0.046  0.043    8.84
70)  cis-1,3-dichloropropene
      0.583 0.710 0.671 0.701 0.743 0.756 0.730 0.801 0.720 0.809  0.722    8.98
71)  4-methyl-2-pentanone
                                0.136 0.130 0.125 0.153 0.132 0.150  0.138    8.16
72)  3-methyl-1-butanol
                                0.009 0.008 0.008 0.011 0.009 0.011  0.009   15.14
73)  toluene
      2.289 2.149 1.858 1.861 2.007 2.017 1.934 2.078 1.876 2.094  2.016    6.97
74)  trans-1,3-dichloropropene
      0.534 0.538 0.543 0.585 0.580 0.591 0.587 0.651 0.588 0.659  0.586    7.30
75)  ethyl methacrylate
                        0.362 0.416 0.420 0.402 0.471 0.415 0.475  0.423    9.26
76)  1,1,2-trichloroethane
            0.280 0.253 0.268 0.277 0.272 0.265 0.295 0.262 0.294  0.274    5.06
77)  1,3-dichloropropane
            0.505 0.490 0.516 0.524 0.522 0.504 0.566 0.509 0.565  0.522    5.06
78)  2-hexanone
                                0.109 0.112 0.114 0.118 0.104 0.121  0.113    5.66

79) I   chlorobenzene-d5      ----------------ISTD---------------------
80)  toluene-d8 (s)
                                1.972 1.937 2.194 2.157 1.940 2.171  2.062    6.02
81)  tetrachloroethene
            0.467 0.455 0.498 0.598 0.584 0.557 0.594 0.545 0.594  0.544   10.41
82)  butyl acetate
                        0.298 0.236 0.243 0.232 0.287 0.255 0.285  0.262   10.37
83)  3,3-Dimethyl-1-Butanol
```

Initial Calibration Summary

Job Number: JB94209 **Sample:** VI8156-ICC8156
Account: PTCNJB PT Consultants **Lab FileID:** I202970.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

```
                        0.041 0.045 0.044 0.041 0.055 0.049 0.056  0.047   12.97
 84)  dibromochloromethane
            0.421 0.431 0.430 0.440 0.460 0.444 0.507 0.463 0.522  0.458    7.69
 85)  1,2-dibromoethane
            0.355 0.316 0.361 0.356 0.366 0.355 0.389 0.354 0.389  0.360    6.03
 86)  n-butyl ether
            2.851 2.821 2.878 3.121 3.118 2.985 3.222 2.898 3.171  3.007    5.07
 87)  chlorobenzene
      1.196 1.278 1.189 1.293 1.424 1.479 1.418 1.505 1.378 1.513  1.367    8.90
 88)  1,1,1,2-tetrachloroethane
            0.512 0.465 0.503 0.551 0.568 0.549 0.609 0.556 0.635  0.550    9.50
 89)  ethylbenzene
      2.630 2.577 2.446 2.448 2.754 2.793 2.695 2.882 2.626 2.900  2.675    6.01
 90)  m,p-xylene
      0.842 0.846 0.896 0.918 1.002 1.038 0.994 1.061 0.969 1.063  0.963    8.65
 91)  o-xylene
      0.841 0.885 0.918 0.910 1.022 1.040 1.001 1.096 0.993 1.096  0.980    8.99
 92)  styrene
      1.317 1.372 1.371 1.455 1.566 1.547 1.542 1.673 1.531 1.680  1.505    8.28
 93)  bromoform
                  0.228 0.236 0.251 0.259 0.256 0.292 0.268 0.303  0.262    9.85

 94) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
 95)  4-bromofluorobenzene (s)
                              1.358 1.301 1.439 1.440 1.281 1.449  1.378    5.47
 96)  isopropylbenzene
      4.671 4.555 4.501 4.657 5.353 5.530 5.222 5.824 5.260 5.853  5.142   10.04
 97)  cyclohexanone    ** This compound did not meet initial criteria
                        0.078 0.110 0.071 0.051 0.053 0.059 0.061  0.069   29.46
 98)  1,1,2,2-tetrachloroethane
            0.989 0.971 1.070 1.003 1.025 0.964 1.135 1.008 1.110  1.031    5.93
 99)  trans-1,4-dichloro-2-butene
                  0.276 0.286 0.258 0.257 0.240 0.268 0.245 0.268  0.262    5.86
100)  1,2,3-trichloropropane
                        0.190 0.206 0.195 0.194 0.222 0.194 0.220  0.203    6.47
101)  bromobenzene
            0.910 0.918 1.012 1.090 1.107 1.079 1.175 1.070 1.188  1.061    9.33
102)  n-propylbenzene
      4.973 5.115 5.074 5.375 6.185 6.277 6.042 6.503 5.883 6.446  5.787   10.32
103)  2-chlorotoluene
            1.010 0.979 1.021 1.208 1.239 1.170 1.282 1.165 1.289  1.152   10.38
104)  4-chlorotoluene
            3.327 3.236 3.392 3.622 3.732 3.598 3.809 3.468 3.862  3.561    6.15
105)  1,3,5-trimethylbenzene
      4.181 3.841 3.937 4.091 4.463 4.726 4.522 4.945 4.537 5.075  4.432    9.38
106)  tert-butylbenzene
      3.522 3.211 2.980 3.169 3.579 3.768 3.607 3.930 3.709 4.124  3.560    9.98
107)  pentachloroethane
            0.777 0.567 0.673 0.717 0.763 0.752 0.871 0.834 0.958  0.768   14.79
108)  1,2,4-trimethylbenzene
      3.997 4.243 3.981 4.077 4.296 4.563 4.337 4.789 4.341 4.857  4.348    7.04
109)  sec-butylbenzene
      5.427 5.322 5.106 5.433 6.181 6.330 6.121 6.687 6.225 6.901  5.973   10.28
110)  p-isopropyltoluene
            4.664 4.345 4.553 5.102 5.212 4.994 5.462 5.055 5.615  5.000    8.34
111)  benzyl chloride
                        1.863 1.922 1.934 1.852 2.117 1.969 2.221  1.983    6.91
112)  1,3-dichlorobenzene
      1.954 2.232 2.123 2.149 2.401 2.375 2.329 2.473 2.259 2.498  2.279    7.49
113)  1,4-dichlorobenzene
```

Initial Calibration Summary

Job Number: JB94209 **Sample:** VI8156-ICC8156
Account: PTCNJB PT Consultants **Lab FileID:** I202970.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

```
       2.523 2.347 2.178 2.335 2.307 2.390 2.294 2.444 2.231 2.449  2.350    4.46
114)  1,2-dichlorobenzene
       2.250 2.007 2.027 2.190 2.210 2.287 2.225 2.400 2.222 2.454  2.227    6.27
115)  n-butylbenzene
       2.499 2.418 2.370 2.556 2.920 2.999 2.848 2.996 2.742 3.027  2.738    9.37
116)  hexachloroethane
             0.907 1.026 0.964 0.951 1.019 0.966 1.057 1.032 1.209  1.015    8.59
117)  1,2-dibromo-3-chloropropane
                         0.196 0.207 0.207 0.200 0.229 0.208 0.237  0.212    7.12
118)  1,3,5-Trichlorobenzene
             2.238 2.197 2.464 2.423 2.481 2.375 2.540 2.374 2.671  2.418    6.03
119)  1,2,4-trichlorobenzene
             2.163 2.086 2.180 2.205 2.296 2.233 2.382 2.263 2.536  2.260    5.90
120)  hexachlorobutadiene
             1.321 1.152 1.256 1.376 1.517 1.384 1.433 1.415 1.590  1.383    9.50
121)  naphthalene
             4.447 3.864 4.358 4.065 4.227 4.146 4.524 4.338 4.846  4.313    6.60
122)  1,2,3-trichlorobenzene
             2.327 1.976 2.177 2.085 2.213 2.153 2.302 2.218 2.459  2.212    6.37
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           MI8156.M          Mon Apr 13 15:44:20 2015   RPT1
```

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: VI8156-ICV8156
Lab FileID: I202974.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\VI8156\I202974.D          Vial: 20
Acq On    :  7 Apr 2015   7:51 pm                   Operator: SCOTTM
Sample    : ICV8156-50                              Inst    : MSI
Misc      : MS83262,VI8156,,,,,1                    Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MI8156.M (RTE Integrator)
Title        : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update  : Mon Apr 13 15:39:01 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	113	0.01	7.21
2		ethanol		----------NA----------				
3		tertiary butyl alcohol	1.721	1.643	4.5	104	0.00	7.31
4		1,4-dioxane	0.112	0.114	-1.8	97	0.00	11.09
5	I	pentafluorobenzene	1.000	1.000	0.0	109	0.00	9.45
6		dichlorodifluoromethane	1.670	1.648	1.3	99	0.01	3.81
7		chlorodifluoromethane	1.757	1.567	10.8	95	0.01	3.83
8		chloromethane	1.721	1.669	3.0	105	0.01	4.14
9		vinyl chloride	1.543	1.563	-1.3	104	0.00	4.39
10		bromomethane	0.668	0.682	-2.1	108	0.00	5.03
11		chloroethane	0.596	0.560	6.0	107	0.01	5.20
12		trichlorofluoromethane	1.179	1.188	-0.8	103	0.00	5.65
13		ethyl ether	0.275	0.265	3.6	105	0.01	6.09
14		acrolein	0.090	0.090	0.0	104	0.00	6.29
15		2-chloropropane	0.312	0.319	-2.2	110	0.00	6.25
16		freon 113	0.501	0.518	-3.4	105	0.00	6.48
17		1,1-dichloroethene	1.088	1.135	-4.3	110	0.00	6.48
18		acetone	0.044	0.045	-2.3	108	0.00	6.54
19		iodomethane	1.004	1.045	-4.1	107	0.00	6.75
20		carbon disulfide	2.473	2.640	-6.8	110	0.00	6.89
21		methyl acetate	0.061	0.057	6.6	87	0.00	7.01
22		allyl chloride	0.318	0.324	-1.9	105	0.00	7.01
23		acetonitrile	0.048	0.047	2.1	108	0.00	6.95
24		methylene chloride	0.692	0.644	6.9	107	0.00	7.20
25		1-chloropropane	1.465	1.439	1.8	109	0.00	7.25
26		acrylonitrile	0.157	0.174	-10.8	109	0.00	7.50
27		methyl tert butyl ether	1.956	1.893	-3.2	102	0.00	7.57
28		trans-1,2-dichloroethene	0.628	0.614	2.2	107	0.00	7.59
29		hexane	0.989	0.802	18.9	91	0.00	7.94
30		di-isopropyl ether	2.633	2.582	1.9	101	0.00	8.18
31		vinyl acetate	0.043	0.067	-55.8#	173	0.00	8.17
32		1,1-dichloroethane	1.241	1.279	-3.1	106	0.00	8.16
33		chloroprene	1.004	0.989	1.5	98	0.00	8.28
34		ethyl tert-butyl ether	2.233	2.202	1.4	100	0.00	8.66
35		2-butanone	0.043	0.048	-11.6	107	0.00	8.90
36		ethyl acetate	0.063	0.068	-7.9	108	0.00	8.92
37		2,2-dichloropropane	1.296	1.294	0.2	107	0.00	8.92
38		cis-1,2-dichloroethene	0.663	0.654	1.4	106	0.00	8.91
39		methacrylonitrile	0.161	0.166	-3.1	106	0.00	9.15
40		propionitrile	0.063	0.071	-12.7	105	0.00	8.94
41		bromochloromethane	0.248	0.254	-2.4	104	0.00	9.22

Initial Calibration Verification

Job Number: JB94209 **Sample:** VI8156-ICV8156
Account: PTCNJB PT Consultants **Lab FileID:** I202974.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

42		tetrahydrofuran	0.051	0.053	-3.9	106	0.00	9.28
43		chloroform	1.104	1.086	1.6	105	0.00	9.28
44		tert-Butyl Formate	0.505	0.532	-5.3	105	0.00	9.32
45	S	dibromofluoromethane (s)	0.524	0.536	-2.3	105	0.00	9.48
46		1,1,1-trichloroethane	1.098	1.166	-6.2	109	0.00	9.55
47		cyclohexane	1.119	1.177	-5.2	110	0.00	9.64
48	I	1,4-difluorobenzene	1.000	1.000	0.0	109	0.00	10.37
49	s	1,2-dichloroethane-d4 (s	0.442	0.447	-1.1	104	0.00	9.89
50		iso-butyl alcohol	0.019	0.021	-10.5	96	0.00	9.75
51		1,1-dichloropropene	0.681	0.736	-8.1	107	0.00	9.73
52		carbon tetrachloride	0.735	0.779	-6.0	110	0.00	9.76
53		isopropyl acetate	0.136	0.151	-11.0	101	0.00	9.93
54		benzene	2.073	2.090	-0.8	107	0.00	9.99
55		2,2,4-trimethylpentane	2.327	2.107	9.5	94	0.00	10.03
56		tert-amyl methyl ether	1.471	1.395	5.2	98	0.00	10.05
57		1,2-dichloroethane	0.546	0.560	-2.6	104	0.00	9.99
58		heptane	0.460	0.398	13.5	94	0.00	10.21
59		n-butyl alcohol	0.011	0.013	-18.2	101	0.00	10.51
60		trichloroethene	0.481	0.506	-5.2	107	0.00	10.72
61		methyl acrylate		----------NA----------				
62		methyl methacrylate	0.211	0.226	-7.1	106	0.00	11.00
63		1,2-dichloropropane	0.543	0.566	-4.2	104	0.00	10.97
64		methylcyclohexane	0.928	0.908	2.2	99	0.00	10.96
65		dibromomethane	0.232	0.243	-4.7	108	0.00	11.12
66		bromodichloromethane	0.600	0.619	-3.2	105	0.00	11.26
67		2-nitropropane	0.075	0.079	-5.3	106	0.00	11.46
68		2-chloroethyl vinyl ether	0.205	0.228	-11.2	104	0.00	11.51
69		epichlorohydrin	0.043	0.045	-4.7	106	0.00	11.51
70		cis-1,3-dichloropropene	0.722	0.767	-6.2	104	0.00	11.73
71		4-methyl-2-pentanone	0.138	0.149	-8.0	105	0.00	11.83
72		3-methyl-1-butanol	0.009	0.010	-11.1	100	0.00	11.86
73		toluene	2.016	2.024	-0.4	106	0.00	12.10
74		trans-1,3-dichloropropene	0.586	0.621	-6.0	104	0.00	12.29
75		ethyl methacrylate	0.423	0.449	-6.1	104	0.00	12.30
76		1,1,2-trichloroethane	0.274	0.284	-3.6	105	0.00	12.49
77		1,3-dichloropropane	0.522	0.545	-4.4	105	0.00	12.68
78		2-hexanone	0.113	0.118	-4.4	108	0.00	12.68
79	I	chlorobenzene-d5	1.000	1.000	0.0	108	0.00	13.53
80	S	toluene-d8 (s)	2.062	2.116	-2.6	106	0.00	12.03
81		tetrachloroethene	0.544	0.589	-8.3	107	0.00	12.69
82		butyl acetate	0.262	0.267	-1.9	100	0.00	12.77
83		3,3-Dimethyl-1-Butanol	0.047	0.051	-8.5	101	0.00	12.86
84		dibromochloromethane	0.458	0.488	-6.6	104	0.00	12.94
85		1,2-dibromoethane	0.360	0.376	-4.4	105	0.00	13.09
86		n-butyl ether	3.007	3.147	-4.7	106	0.00	13.51
87		chlorobenzene	1.367	1.462	-6.9	105	0.00	13.56
88		1,1,1,2-tetrachloroethane	0.550	0.593	-7.8	105	0.00	13.62
89		ethylbenzene	2.675	2.818	-5.3	106	0.00	13.62
90		m,p-xylene	0.963	1.046	-8.6	107	0.00	13.73
91		o-xylene	0.980	1.067	-8.9	105	0.00	14.14
92		styrene	1.505	1.618	-7.5	105	0.00	14.15
93		bromoform	0.262	0.286	-9.2	106	0.00	14.40
94	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	106	0.00	15.84
95	S	4-bromofluorobenzene (s)	1.378	1.396	-1.3	103	0.00	14.68
96		isopropylbenzene	5.142	5.856	-13.9	107	0.00	14.49
97		cyclohexanone	0.069	0.041	40.6#	81	0.00	14.62
98		1,1,2,2-tetrachloroethane	1.031	1.101	-6.8	103	0.00	14.77

Initial Calibration Verification

Job Number: JB94209 **Sample:** VI8156-ICV8156
Account: PTCNJB PT Consultants **Lab FileID:** I202974.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

99	trans-1,4-dichloro-2-bute	0.262	0.259	1.1	103	0.00	14.81
100	1,2,3-trichloropropane	0.203	0.216	-6.4	103	0.00	14.84
101	bromobenzene	1.061	1.142	-7.6	103	0.00	14.87
102	n-propylbenzene	5.787	6.461	-11.6	106	0.00	14.90
103	2-chlorotoluene	1.152	1.266	-9.9	105	0.00	15.03
104	4-chlorotoluene	3.561	3.715	-4.3	104	0.00	15.13
105	1,3,5-trimethylbenzene	4.432	4.915	-10.9	106	0.00	15.05
106	tert-butylbenzene	3.560	3.932	-10.4	106	0.00	15.39
107	pentachloroethane	0.768	0.865	-12.6	106	0.00	15.47
108	1,2,4-trimethylbenzene	4.348	4.682	-7.7	104	0.00	15.44
109	sec-butylbenzene	5.973	6.723	-12.6	107	0.00	15.61
110	p-isopropyltoluene	5.000	5.452	-9.0	106	0.00	15.73
111	benzyl chloride	1.983	1.934	2.5	97	0.00	15.98
112	1,3-dichlorobenzene	2.279	2.379	-4.4	102	0.00	15.78
113	1,4-dichlorobenzene	2.350	2.344	0.3	102	0.00	15.87
114	1,2-dichlorobenzene	2.227	2.355	-5.7	104	0.00	16.26
115	n-butylbenzene	2.738	2.944	-7.5	104	0.00	16.15
116	hexachloroethane	1.015	1.072	-5.6	108	0.00	16.54
117	1,2-dibromo-3-chloropropa	0.212	0.222	-4.7	103	0.00	17.04
118	1,3,5-Trichlorobenzene	2.418	2.379	1.6	100	0.00	17.26
119	1,2,4-trichlorobenzene	2.260	2.226	1.5	99	0.00	17.91
120	hexachlorobutadiene	1.383	1.447	-4.6	107	0.00	18.04
121	naphthalene	4.313	4.309	0.1	101	0.00	18.17
122	1,2,3-trichlorobenzene	2.212	2.159	2.4	100	0.00	18.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0
I202970.D MI8156.M Mon Apr 13 15:50:01 2015 RPT1

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: VI8194-CC8156
Lab FileID: I203930.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\VI8194\I203930.D Vial: 43
Acq On : 8 May 2015 9:39 am Operator: SCOTTM
Sample : CC8156-50 Inst : MSI
Misc : MS84661,VI8194,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MI8156.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Apr 30 09:04:29 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	102	0.01	7.21
2		ethanol		----------NA----------				
3		tertiary butyl alcohol	1.721	1.759	-2.2	101	0.00	7.31
4		1,4-dioxane	0.112	0.116	-3.6	90	0.00	11.10
5	I	pentafluorobenzene	1.000	1.000	0.0	97	0.00	9.45
6		dichlorodifluoromethane	1.670	1.777	-6.4	96	0.02	3.82
7		chlorodifluoromethane	1.757	1.572	10.5	85	0.01	3.83
8		chloromethane	1.721	1.651	4.1	93	0.00	4.14
9		vinyl chloride	1.543	1.684	-9.1	101	0.01	4.40
10		bromomethane	0.668	0.747	-11.8	106	0.00	5.03
11		chloroethane	0.596	0.533	10.6	91	0.00	5.19
12		trichlorofluoromethane	1.179	1.533	-30.0#	120	0.00	5.65
13		ethyl ether	0.275	0.279	-1.5	99	0.00	6.08
14		acrolein	0.090	0.100	-11.1	104	0.00	6.29
15		2-chloropropane	0.312	0.306	1.9	95	0.00	6.25
16		freon 113	0.501	0.650	-29.7#	118	0.00	6.48
17		1,1-dichloroethene	1.088	1.051	3.4	92	0.00	6.48
18		acetone	0.044	0.046	-4.5	99	0.00	6.53
19		iodomethane	1.004	1.132	-12.7	104	0.00	6.74
20		carbon disulfide	2.473	2.513	-1.6	94	0.00	6.88
21		methyl acetate	0.061	0.069	-13.1	94	0.00	7.01
22		allyl chloride	0.318	0.305	4.1	89	0.00	7.01
23		acetonitrile	0.048	0.053	-10.4	109	0.00	6.94
24		methylene chloride	0.692	0.676	2.3	101	0.00	7.19
25		1-chloropropane	1.465	1.201	18.0	81	0.00	7.24
26		acrylonitrile	0.157	0.161	-2.5	90	0.00	7.50
27		methyl tert butyl ether	1.956	1.955	0.1	95	0.00	7.57
28		trans-1,2-dichloroethene	0.628	0.636	-1.3	100	0.00	7.59
29		hexane	0.989	0.792	19.9	80	0.00	7.93
30		di-isopropyl ether	2.633	2.398	8.9	84	0.00	8.18
31		vinyl acetate	0.043	0.071	-65.1#	164	-0.01	8.16
32		1,1-dichloroethane	1.241	1.187	4.4	88	0.00	8.15
33		chloroprene	1.004	0.976	2.8	87	0.00	8.28
34		ethyl tert-butyl ether	2.233	2.254	-0.9	92	0.00	8.65
35		2-butanone	0.043	0.049	-14.0	97	0.00	8.90
36		ethyl acetate	0.063	0.068	-7.9	97	0.00	8.91
37		2,2-dichloropropane	1.296	1.319	-1.8	98	0.00	8.91
38		cis-1,2-dichloroethene	0.663	0.664	-0.2	97	0.00	8.90
39		methacrylonitrile	0.161	0.167	-3.7	95	-0.01	9.14
40		propionitrile	0.063	0.067	-6.3	89	0.00	8.94
41		bromochloromethane	0.248	0.279	-12.5	103	0.00	9.21

Continuing Calibration Summary

Job Number: JB94209 **Sample:** VI8194-CC8156
Account: PTCNJB PT Consultants **Lab FileID:** I203930.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

42		tetrahydrofuran	0.051	0.050	2.0	89	0.00	9.27
43		chloroform	1.104	1.120	-1.4	97	0.00	9.27
44		tert-Butyl Formate	0.505	0.513	-1.6	91	0.00	9.32
45	S	dibromofluoromethane (s)	0.526	0.504	4.2	89	0.00	9.47
46		1,1,1-trichloroethane	1.098	1.216	-10.7	102	0.00	9.54
47		cyclohexane	1.119	1.119	0.0	94	0.00	9.63
48	I	1,4-difluorobenzene	1.000	1.000	0.0	92	0.00	10.37
49	s	1,2-dichloroethane-d4 (s	0.447	0.423	5.4	84	0.00	9.89
50		iso-butyl alcohol	0.019	0.021	-10.5	83	0.00	9.74
51		1,1-dichloropropene	0.681	0.699	-2.6	86	0.00	9.73
52		carbon tetrachloride	0.735	0.880	-19.7	105	0.00	9.76
53		isopropyl acetate	0.136	0.159	-16.9	90	0.00	9.93
54		benzene	2.073	2.063	0.5	89	0.00	9.98
55		2,2,4-trimethylpentane	2.327	2.369	-1.8	89	0.00	10.02
56		tert-amyl methyl ether	1.471	1.591	-8.2	94	0.00	10.05
57		1,2-dichloroethane	0.546	0.586	-7.3	92	0.00	9.98
58		heptane	0.460	0.427	7.2	85	-0.01	10.20
59		n-butyl alcohol	0.011	0.013	-18.2	80	0.00	10.50
60		trichloroethene	0.481	0.522	-8.5	93	0.00	10.72
61		methyl acrylate		----------NA----------				
62		methyl methacrylate	0.211	0.238	-12.8	94	0.00	10.99
63		1,2-dichloropropane	0.543	0.525	3.3	82	0.00	10.96
64		methylcyclohexane	0.928	1.019	-9.8	94	0.00	10.95
65		dibromomethane	0.232	0.270	-16.4	101	0.00	11.12
66		bromodichloromethane	0.600	0.661	-10.2	94	0.00	11.25
67		2-nitropropane	0.075	0.075	0.0	84	0.00	11.46
68		2-chloroethyl vinyl ether	0.205	0.207	-1.0	80	0.00	11.51
69		epichlorohydrin	0.043	0.041	4.7	81	0.00	11.51
70		cis-1,3-dichloropropene	0.722	0.737	-2.1	84	0.00	11.72
71		4-methyl-2-pentanone	0.138	0.146	-5.8	87	0.00	11.82
72		3-methyl-1-butanol	0.009	0.011	-22.2#	89	0.00	11.85
73		toluene	2.016	1.968	2.4	87	0.00	12.10
74		trans-1,3-dichloropropene	0.586	0.610	-4.1	86	0.00	12.28
75		ethyl methacrylate	0.423	0.436	-3.1	85	0.00	12.30
76		1,1,2-trichloroethane	0.274	0.302	-10.2	94	0.00	12.49
77		1,3-dichloropropane	0.522	0.537	-2.9	87	0.00	12.67
78		2-hexanone	0.113	0.116	-2.7	90	0.00	12.68
79	I	chlorobenzene-d5	1.000	1.000	0.0	92	0.00	13.52
80	S	toluene-d8 (s)	2.089	2.037	2.5	87	0.00	12.02
81		tetrachloroethene	0.544	0.652	-19.9	101	0.00	12.69
82		butyl acetate	0.262	0.252	3.8	80	0.00	12.77
83		3,3-Dimethyl-1-Butanol	0.047	0.050	-6.4	83	0.00	12.85
84		dibromochloromethane	0.458	0.548	-19.7	99	0.00	12.94
85		1,2-dibromoethane	0.360	0.413	-14.7	97	0.00	13.09
86		n-butyl ether	3.007	2.610	13.2	74	0.00	13.51
87		chlorobenzene	1.367	1.434	-4.9	87	0.00	13.56
88		1,1,1,2-tetrachloroethane	0.550	0.641	-16.5	96	0.00	13.61
89		ethylbenzene	2.675	2.744	-2.6	87	0.00	13.62
90		m,p-xylene	0.963	1.017	-5.6	88	0.00	13.73
91		o-xylene	0.980	1.042	-6.3	87	0.00	14.14
92		styrene	1.505	1.545	-2.7	85	0.00	14.15
93		bromoform	0.262	0.348	-32.8#	109	0.00	14.39
94	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	91	0.00	15.84
95	S	4-bromofluorobenzene (s)	1.385	1.364	1.5	86	0.00	14.68
96		isopropylbenzene	5.142	5.618	-9.3	87	0.00	14.49
97		cyclohexanone	0.069	0.093	-34.8#	158	0.00	14.62
98		1,1,2,2-tetrachloroethane	1.031	1.141	-10.7	91	0.00	14.77

Continuing Calibration Summary

Job Number: JB94209 **Sample:** VI8194-CC8156
Account: PTCNJB PT Consultants **Lab FileID:** I203930.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

99	trans-1,4-dichloro-2-bute	0.262	0.245	6.5	83	0.00	14.81
100	1,2,3-trichloropropane	0.203	0.247	-21.7#	101	0.00	14.84
101	bromobenzene	1.061	1.230	-15.9	95	0.00	14.87
102	n-propylbenzene	5.787	6.234	-7.7	87	0.00	14.90
103	2-chlorotoluene	1.152	1.264	-9.7	89	0.00	15.03
104	4-chlorotoluene	3.561	3.563	-0.1	85	0.00	15.13
105	1,3,5-trimethylbenzene	4.432	4.719	-6.5	86	0.00	15.05
106	tert-butylbenzene	3.560	3.737	-5.0	86	0.00	15.39
107	pentachloroethane	0.768	0.880	-14.6	92	0.00	15.46
108	1,2,4-trimethylbenzene	4.348	4.532	-4.2	86	0.00	15.43
109	sec-butylbenzene	5.973	6.291	-5.3	85	0.00	15.61
110	p-isopropyltoluene	5.000	5.181	-3.6	86	0.00	15.73
111	benzyl chloride	1.983	2.114	-6.6	90	0.00	15.98
112	1,3-dichlorobenzene	2.279	2.469	-8.3	90	0.00	15.78
113	1,4-dichlorobenzene	2.350	2.427	-3.3	90	0.00	15.86
114	1,2-dichlorobenzene	2.227	2.461	-10.5	93	0.00	16.26
115	n-butylbenzene	2.738	2.772	-1.2	84	0.00	16.15
116	hexachloroethane	1.015	1.031	-1.6	88	0.00	16.54
117	1,2-dibromo-3-chloropropa	0.212	0.251	-18.4	99	0.00	17.04
118	1,3,5-Trichlorobenzene	2.418	2.564	-6.0	91	0.00	17.26
119	1,2,4-trichlorobenzene	2.260	2.407	-6.5	92	0.00	17.90
120	hexachlorobutadiene	1.383	1.485	-7.4	94	0.00	18.04
121	naphthalene	4.313	4.423	-2.6	89	0.00	18.17
122	1,2,3-trichlorobenzene	2.212	2.324	-5.1	91	0.00	18.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0
I202970.D MI8156.M Fri May 08 15:43:06 2015 RPT1

Continuing Calibration Summary

Job Number: JB94209 **Sample:** VI8195-CC8156
Account: PTCNJB PT Consultants **Lab FileID:** I203953A.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\VI8195\I203953a.D          Vial: 26
Acq On    :  9 May 2015   1:16 am                    Operator: SCOTTM
Sample    : CC8156-20                                Inst    : MSI
Misc      : MS84837,VI8195,,,,,1                     Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MI8156.M (RTE Integrator)
Title        : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update  : Mon May 11 11:02:06 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	91	-0.01	7.19
2		ethanol		----------NA----------				
3		tertiary butyl alcohol	1.721	1.752	-1.8	97	0.01	7.32
4		1,4-dioxane	0.112	0.134	-19.6	115	0.00	11.10
5	I	pentafluorobenzene	1.000	1.000	0.0	78	0.00	9.45
6		dichlorodifluoromethane	1.670	1.830	-9.6	85	0.02	3.82
7		chlorodifluoromethane	1.757	1.686	4.0	75	0.00	3.83
8		chloromethane	1.721	1.605	6.7	75	0.00	4.13
9		vinyl chloride	1.543	1.602	-3.8	81	0.00	4.39
10		bromomethane	0.668	0.943	-41.2#	112	0.00	5.02
11		chloroethane	0.596	0.683	-14.6	92	0.00	5.20
12		trichlorofluoromethane	1.179	1.504	-27.6#	98	0.00	5.65
13		ethyl ether	0.275	0.286	-4.0	85	0.01	6.09
14		acrolein	0.090	0.083	7.8	74	0.00	6.30
15		2-chloropropane	0.312	0.311	0.3	74	0.00	6.25
16		freon 113	0.501	0.683	-36.3#	99	0.00	6.47
17		1,1-dichloroethene	1.088	1.030	5.3	69	0.00	6.48
18		acetone	0.044	0.046	-4.5	95	0.01	6.54
19		iodomethane	1.004	1.138	-13.3	84	0.00	6.74
20		carbon disulfide	2.473	2.510	-1.5	73	0.00	6.88
21		methyl acetate	0.061	0.063	-3.3	93	0.00	7.02
22		allyl chloride	0.318	0.291	8.5	70	0.01	7.02
23		acetonitrile	0.048	0.038	20.8#	71	0.02	6.96
24		methylene chloride	0.692	0.693	-0.1	76	0.00	7.19
25		1-chloropropane	1.465	1.227	16.2	67	0.00	7.24
26		acrylonitrile	0.157	0.160	-1.9	84	0.00	7.51
27		methyl tert butyl ether	1.956	1.882	3.8	76	-0.01	7.56
28		trans-1,2-dichloroethene	0.628	0.664	-5.7	83	0.00	7.59
29		hexane	0.989	0.785	20.6#	66	0.00	7.93
30		di-isopropyl ether	2.633	2.253	14.4	67	0.00	8.18
31		vinyl acetate	0.043	0.065	-51.2#	135	0.00	8.18
32		1,1-dichloroethane	1.241	1.233	0.6	76	0.00	8.15
33		chloroprene	1.004	0.969	3.5	75	0.00	8.28
34		ethyl tert-butyl ether	2.233	2.058	7.8	72	0.00	8.65
35		2-butanone	0.043	0.042	2.3	79	0.02	8.92
36		ethyl acetate	0.063	0.053	15.9	74	0.00	8.93
37		2,2-dichloropropane	1.296	1.264	2.5	75	0.00	8.91
38		cis-1,2-dichloroethene	0.663	0.700	-5.6	84	0.00	8.91
39		methacrylonitrile	0.161	0.145	9.9	79	0.00	9.15
40		propionitrile	0.063	0.068	-7.9	95	0.00	8.95
41		bromochloromethane	0.248	0.291	-17.3	93	0.00	9.21

Continuing Calibration Summary

Job Number: JB94209 **Sample:** VI8195-CC8156
Account: PTCNJB PT Consultants **Lab FileID:** I203953A.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

42		tetrahydrofuran	0.051	0.048	5.9	82	0.00	9.27
43		chloroform	1.104	1.213	-9.9	90	0.00	9.27
44		tert-Butyl Formate	0.505	0.461	8.7	73	0.00	9.32
45	S	dibromofluoromethane (s)	0.526	0.511	2.9	73	0.00	9.47
46		1,1,1-trichloroethane	1.098	1.227	-11.7	84	0.00	9.54
47		cyclohexane	1.119	1.061	5.2	70	0.00	9.64
48	I	1,4-difluorobenzene	1.000	1.000	0.0	75	0.00	10.37
49	s	1,2-dichloroethane-d4 (s	0.447	0.456	-2.0	73	0.00	9.89
50		iso-butyl alcohol	0.019	0.019	0.0	91	0.00	9.75
51		1,1-dichloropropene	0.681	0.722	-6.0	75	0.00	9.73
52		carbon tetrachloride	0.735	0.902	-22.7#	88	0.00	9.76
53		isopropyl acetate	0.136	0.126	7.4	74	0.00	9.93
54		benzene	2.073	2.189	-5.6	81	0.00	9.98
55		2,2,4-trimethylpentane	2.327	2.236	3.9	74	0.00	10.02
56		tert-amyl methyl ether	1.471	1.483	-0.8	77	0.00	10.04
57		1,2-dichloroethane	0.546	0.619	-13.4	85	0.00	9.98
58		heptane	0.460	0.433	5.9	76	0.00	10.21
59		n-butyl alcohol	0.011	0.012	-9.1	98	0.02	10.53
60		trichloroethene	0.481	0.543	-12.9	84	0.00	10.72
61		methyl acrylate		----------NA----------				
62		methyl methacrylate	0.211	0.213	-0.9	83	0.00	11.00
63		1,2-dichloropropane	0.543	0.560	-3.1	77	0.00	10.97
64		methylcyclohexane	0.928	0.962	-3.7	75	0.00	10.95
65		dibromomethane	0.232	0.275	-18.5	92	0.00	11.12
66		bromodichloromethane	0.600	0.695	-15.8	89	0.00	11.26
67		2-nitropropane	0.075	0.084	-12.0	87	0.00	11.46
68		2-chloroethyl vinyl ether	0.205	0.200	2.4	74	0.00	11.51
69		epichlorohydrin	0.043	0.039	9.3	76	0.00	11.51
70		cis-1,3-dichloropropene	0.722	0.739	-2.4	76	0.00	11.72
71		4-methyl-2-pentanone	0.138	0.139	-0.7	83	0.00	11.82
72		3-methyl-1-butanol	0.009	0.010	-11.1	100	0.00	11.86
73		toluene	2.016	2.114	-4.9	82	0.00	12.10
74		trans-1,3-dichloropropene	0.586	0.608	-3.8	78	0.00	12.29
75		ethyl methacrylate	0.423	0.418	1.2	78	0.00	12.30
76		1,1,2-trichloroethane	0.274	0.303	-10.6	86	0.00	12.49
77		1,3-dichloropropane	0.522	0.547	-4.8	81	0.00	12.68
78		2-hexanone	0.113	0.106	6.2	70	0.00	12.69
79	I	chlorobenzene-d5	1.000	1.000	0.0	76	0.00	13.52
80	S	toluene-d8 (s)	2.089	2.024	3.1	70	0.00	12.02
81		tetrachloroethene	0.544	0.696	-27.9#	96	0.00	12.69
82		butyl acetate	0.262	0.217	17.2	71	0.00	12.77
83		3,3-Dimethyl-1-Butanol	0.047	0.045	4.3	84	0.00	12.86
84		dibromochloromethane	0.458	0.573	-25.1#	99	0.00	12.94
85		1,2-dibromoethane	0.360	0.419	-16.4	90	0.00	13.09
86		n-butyl ether	3.007	2.486	17.3	64	0.00	13.51
87		chlorobenzene	1.367	1.514	-10.8	82	0.00	13.56
88		1,1,1,2-tetrachloroethane	0.550	0.663	-20.5#	92	0.00	13.62
89		ethylbenzene	2.675	2.805	-4.9	80	0.00	13.62
90		m,p-xylene	0.963	1.044	-8.4	80	0.00	13.73
91		o-xylene	0.980	1.048	-6.9	80	0.00	14.14
92		styrene	1.505	1.542	-2.5	76	0.00	14.15
93		bromoform	0.262	0.355	-35.5#	106	0.00	14.40
94	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	77	0.00	15.84
95	S	4-bromofluorobenzene (s)	1.385	1.288	7.0	69	0.00	14.68
96		isopropylbenzene	5.142	5.332	-3.7	79	0.00	14.49
97		cyclohexanone	0.069	0.034	50.7#	51	0.00	14.63
98		1,1,2,2-tetrachloroethane	1.031	1.097	-6.4	88	0.00	14.77

Continuing Calibration Summary

Job Number: JB94209 **Sample:** VI8195-CC8156
Account: PTCNJB PT Consultants **Lab FileID:** I203953A.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

99	trans-1,4-dichloro-2-bute	0.262	0.223	14.9	72	0.00	14.81
100	1,2,3-trichloropropane	0.203	0.242	-19.2	96	0.00	14.84
101	bromobenzene	1.061	1.235	-16.4	88	0.00	14.87
102	n-propylbenzene	5.787	6.005	-3.8	77	0.00	14.89
103	2-chlorotoluene	1.152	1.245	-8.1	82	0.00	15.03
104	4-chlorotoluene	3.561	3.503	1.6	75	0.00	15.13
105	1,3,5-trimethylbenzene	4.432	4.610	-4.0	79	0.00	15.05
106	tert-butylbenzene	3.560	3.585	-0.7	77	0.00	15.39
107	pentachloroethane	0.768	0.865	-12.6	89	0.00	15.46
108	1,2,4-trimethylbenzene	4.348	4.460	-2.6	80	0.00	15.44
109	sec-butylbenzene	5.973	6.138	-2.8	78	0.00	15.61
110	p-isopropyltoluene	5.000	5.070	-1.4	78	0.00	15.73
111	benzyl chloride	1.983	1.656	16.5	69	0.00	15.98
112	1,3-dichlorobenzene	2.279	2.541	-11.5	84	0.00	15.78
113	1,4-dichlorobenzene	2.350	2.484	-5.7	84	0.00	15.86
114	1,2-dichlorobenzene	2.227	2.456	-10.3	85	0.00	16.26
115	n-butylbenzene	2.738	2.611	4.6	71	0.00	16.15
116	hexachloroethane	1.015	1.074	-5.8	86	0.00	16.54
117	1,2-dibromo-3-chloropropa	0.212	0.266	-25.5#	103	0.00	17.04
118	1,3,5-Trichlorobenzene	2.418	2.519	-4.2	82	0.00	17.26
119	1,2,4-trichlorobenzene	2.260	2.302	-1.9	80	0.00	17.90
120	hexachlorobutadiene	1.383	1.631	-17.9	91	0.00	18.04
121	naphthalene	4.313	4.337	-0.6	81	0.00	18.17
122	1,2,3-trichlorobenzene	2.212	2.329	-5.3	84	0.00	18.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0
I202969.D MI8156.M Mon May 11 11:30:02 2015 RPT1

6.7.10

6

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: VI8196-CC8156
Lab FileID: I203980.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\VI8196\I203980.D Vial: 34
Acq On : 11 May 2015 10:35 am Operator: SCOTTM
Sample : CC8156-50 Inst : MSI
Misc : MS84849,VI8196,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MI8156.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Mon May 11 11:02:06 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	126	-0.01	7.19
2		ethanol		----------NA----------				
3		tertiary butyl alcohol	1.721	1.776	-3.2	125	0.00	7.30
4		1,4-dioxane	0.112	0.115	-2.7	110	-0.01	11.09
5	I	pentafluorobenzene	1.000	1.000	0.0	122	0.00	9.44
6		dichlorodifluoromethane	1.670	1.899	-13.7	129	0.02	3.82
7		chlorodifluoromethane	1.757	1.716	2.3	117	0.00	3.83
8		chloromethane	1.721	1.694	1.6	120	0.01	4.14
9		vinyl chloride	1.543	1.754	-13.7	132	0.01	4.40
10		bromomethane	0.668	0.774	-15.9	138	0.00	5.02
11		chloroethane	0.596	0.635	-6.5	137	0.00	5.19
12		trichlorofluoromethane	1.179	1.572	-33.3#	154	0.00	5.65
13		ethyl ether	0.275	0.299	-8.7	133	0.00	6.08
14		acrolein	0.090	0.087	3.3	114	0.00	6.29
15		2-chloropropane	0.312	0.317	-1.6	123	0.00	6.25
16		freon 113	0.501	0.682	-36.1#	156	0.00	6.48
17		1,1-dichloroethene	1.088	1.064	2.2	116	0.00	6.48
18		acetone	0.044	0.044	0.0	117	-0.01	6.52
19		iodomethane	1.004	1.194	-18.9	138	0.00	6.74
20		carbon disulfide	2.473	2.613	-5.7	122	0.00	6.88
21		methyl acetate	0.061	0.069	-13.1	119	-0.02	7.00
22		allyl chloride	0.318	0.325	-2.2	119	0.00	7.01
23		acetonitrile	0.048	0.058	-20.8#	150	-0.02	6.92
24		methylene chloride	0.692	0.710	-2.6	133	0.00	7.19
25		1-chloropropane	1.465	1.212	17.3	103	0.00	7.24
26		acrylonitrile	0.157	0.162	-3.2	114	0.00	7.50
27		methyl tert butyl ether	1.956	2.064	-5.5	125	0.00	7.57
28		trans-1,2-dichloroethene	0.628	0.663	-5.6	131	0.00	7.59
29		hexane	0.989	0.832	15.9	106	0.00	7.93
30		di-isopropyl ether	2.633	2.468	6.3	109	0.00	8.18
31		vinyl acetate	0.043	0.066	-53.5#	190	-0.01	8.16
32		1,1-dichloroethane	1.241	1.209	2.6	112	0.00	8.15
33		chloroprene	1.004	0.968	3.6	108	0.00	8.27
34		ethyl tert-butyl ether	2.233	2.369	-6.1	121	0.00	8.65
35		2-butanone	0.043	0.045	-4.7	113	-0.01	8.90
36		ethyl acetate	0.063	0.071	-12.7	126	0.00	8.91
37		2,2-dichloropropane	1.296	1.328	-2.5	124	0.00	8.91
38		cis-1,2-dichloroethene	0.663	0.686	-3.5	125	0.00	8.90
39		methacrylonitrile	0.161	0.161	0.0	115	-0.01	9.14
40		propionitrile	0.063	0.060	4.8	100	-0.02	8.93
41		bromochloromethane	0.248	0.286	-15.3	132	0.00	9.21

Continuing Calibration Summary

Job Number: JB94209 **Sample:** VI8196-CC8156
Account: PTCNJB PT Consultants **Lab FileID:** I203980.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

42		tetrahydrofuran	0.051	0.050	2.0	112	0.00	9.27
43		chloroform	1.104	1.120	-1.4	122	0.00	9.27
44		tert-Butyl Formate	0.505	0.525	-4.0	117	0.00	9.32
45	S	dibromofluoromethane (s)	0.526	0.518	1.5	115	0.00	9.47
46		1,1,1-trichloroethane	1.098	1.218	-10.9	128	0.00	9.54
47		cyclohexane	1.119	1.157	-3.4	122	0.00	9.64
48	I	1,4-difluorobenzene	1.000	1.000	0.0	118	0.00	10.37
49	s	1,2-dichloroethane-d4 (s	0.447	0.406	9.2	103	0.00	9.89
50		iso-butyl alcohol	0.019	0.019	0.0	93	-0.02	9.73
51		1,1-dichloropropene	0.681	0.685	-0.6	108	-0.01	9.72
52		carbon tetrachloride	0.735	0.858	-16.7	131	0.00	9.76
53		isopropyl acetate	0.136	0.145	-6.6	105	0.00	9.93
54		benzene	2.073	2.037	1.7	113	0.00	9.98
55		2,2,4-trimethylpentane	2.327	2.452	-5.4	118	0.00	10.02
56		tert-amyl methyl ether	1.471	1.648	-12.0	125	0.00	10.04
57		1,2-dichloroethane	0.546	0.546	0.0	110	0.00	9.98
58		heptane	0.460	0.405	12.0	103	0.00	10.20
59		n-butyl alcohol	0.011	0.011	0.0	93	-0.01	10.50
60		trichloroethene	0.481	0.502	-4.4	115	0.00	10.72
61		methyl acrylate		----------NA----------				
62		methyl methacrylate	0.211	0.243	-15.2	124	0.00	10.99
63		1,2-dichloropropane	0.543	0.520	4.2	104	0.00	10.96
64		methylcyclohexane	0.928	1.022	-10.1	121	0.00	10.95
65		dibromomethane	0.232	0.263	-13.4	126	0.00	11.12
66		bromodichloromethane	0.600	0.633	-5.5	116	0.00	11.25
67		2-nitropropane	0.075	0.071	5.3	102	0.00	11.46
68		2-chloroethyl vinyl ether	0.205	0.212	-3.4	105	0.00	11.51
69		epichlorohydrin	0.043	0.042	2.3	105	0.00	11.51
70		cis-1,3-dichloropropene	0.722	0.737	-2.1	108	0.00	11.72
71		4-methyl-2-pentanone	0.138	0.136	1.4	105	0.00	11.82
72		3-methyl-1-butanol	0.009	0.010	-11.1	107	0.00	11.85
73		toluene	2.016	1.943	3.6	110	0.00	12.10
74		trans-1,3-dichloropropene	0.586	0.627	-7.0	113	0.00	12.28
75		ethyl methacrylate	0.423	0.439	-3.8	110	0.00	12.30
76		1,1,2-trichloroethane	0.274	0.305	-11.3	122	0.00	12.49
77		1,3-dichloropropane	0.522	0.561	-7.5	117	0.00	12.67
78		2-hexanone	0.113	0.107	5.3	107	0.00	12.68
79	I	chlorobenzene-d5	1.000	1.000	0.0	122	0.00	13.52
80	S	toluene-d8 (s)	2.089	1.964	6.0	111	0.00	12.02
81		tetrachloroethene	0.544	0.586	-7.7	121	0.00	12.69
82		butyl acetate	0.262	0.250	4.6	106	0.00	12.77
83		3,3-Dimethyl-1-Butanol	0.047	0.048	-2.1	106	0.00	12.85
84		dibromochloromethane	0.458	0.536	-17.0	129	0.00	12.94
85		1,2-dibromoethane	0.360	0.411	-14.2	129	0.00	13.09
86		n-butyl ether	3.007	2.436	19.0	93	0.00	13.51
87		chlorobenzene	1.367	1.437	-5.1	117	0.00	13.56
88		1,1,1,2-tetrachloroethane	0.550	0.564	-2.5	113	0.00	13.61
89		ethylbenzene	2.675	2.596	3.0	110	0.00	13.62
90		m,p-xylene	0.963	0.975	-1.2	113	0.00	13.73
91		o-xylene	0.980	0.954	2.7	107	0.00	14.14
92		styrene	1.505	1.552	-3.1	114	0.00	14.15
93		bromoform	0.262	0.349	-33.2#	146	0.00	14.39
94	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	127	0.00	15.84
95	S	4-bromofluorobenzene (s)	1.385	1.353	2.3	119	0.00	14.68
96		isopropylbenzene	5.142	4.783	7.0	104	0.00	14.49
97		cyclohexanone	0.069	0.063	8.7	150	0.00	14.62
98		1,1,2,2-tetrachloroethane	1.031	1.074	-4.2	120	0.00	14.77

Continuing Calibration Summary

Job Number: JB94209 **Sample:** VI8196-CC8156
Account: PTCNJB PT Consultants **Lab FileID:** I203980.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

99	trans-1,4-dichloro-2-bute	0.262	0.242	7.6	115	0.00	14.81
100	1,2,3-trichloropropane	0.203	0.233	-14.8	133	0.00	14.84
101	bromobenzene	1.061	1.214	-14.4	131	0.00	14.87
102	n-propylbenzene	5.787	5.654	2.3	110	0.00	14.89
103	2-chlorotoluene	1.152	1.177	-2.2	116	0.00	15.03
104	4-chlorotoluene	3.561	3.458	2.9	115	0.00	15.13
105	1,3,5-trimethylbenzene	4.432	4.145	6.5	106	0.00	15.05
106	tert-butylbenzene	3.560	3.197	10.2	103	0.00	15.39
107	pentachloroethane	0.768	0.793	-3.3	115	0.00	15.46
108	1,2,4-trimethylbenzene	4.348	4.122	5.2	109	0.00	15.44
109	sec-butylbenzene	5.973	5.557	7.0	105	0.00	15.61
110	p-isopropyltoluene	5.000	4.648	7.0	108	0.00	15.73
111	benzyl chloride	1.983	2.070	-4.4	124	0.00	15.98
112	1,3-dichlorobenzene	2.279	2.446	-7.3	126	0.00	15.78
113	1,4-dichlorobenzene	2.350	2.424	-3.1	126	0.00	15.87
114	1,2-dichlorobenzene	2.227	2.430	-9.1	128	0.00	16.26
115	n-butylbenzene	2.738	2.579	5.8	109	0.00	16.15
116	hexachloroethane	1.015	0.913	10.0	110	0.00	16.54
117	1,2-dibromo-3-chloropropa	0.212	0.245	-15.6	136	0.00	17.04
118	1,3,5-Trichlorobenzene	2.418	2.479	-2.5	124	0.00	17.26
119	1,2,4-trichlorobenzene	2.260	2.292	-1.4	122	0.00	17.90
120	hexachlorobutadiene	1.383	1.460	-5.6	129	0.00	18.04
121	naphthalene	4.313	4.335	-0.5	122	0.00	18.17
122	1,2,3-trichlorobenzene	2.212	2.265	-2.4	125	0.00	18.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0
I202970.D MI8156.M Tue May 12 08:52:43 2015 RPT1

6.7.11

6

Continuing Calibration Summary

Job Number: JB94209 **Sample:** VI8197-CC8156
Account: PTCNJB PT Consultants **Lab FileID:** I204003.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\VI8197\I204003.D          Vial: 29
Acq On    : 11 May 2015  10:27 pm                   Operator: SCOTTM
Sample    : CC8156-20                               Inst    : MSI
Misc      : MS84993,VI8197,,,,,1                    Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MI8156.M (RTE Integrator)
Title        : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update  : Mon May 11 11:02:06 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	129	-0.01	7.19
2		ethanol		----------NA----------				
3		tertiary butyl alcohol	1.721	1.799	-4.5	141	0.00	7.30
4		1,4-dioxane	0.112	0.119	-6.2	146	0.00	11.10
5	I	pentafluorobenzene	1.000	1.000	0.0	119	0.00	9.45
6		dichlorodifluoromethane	1.670	2.107	-26.2#	149	0.02	3.82
7		chlorodifluoromethane	1.757	1.673	4.8	114	0.00	3.83
8		chloromethane	1.721	1.835	-6.6	131	0.00	4.13
9		vinyl chloride	1.543	1.923	-24.6#	147	0.00	4.39
10		bromomethane	0.668	0.891	-33.4#	161	-0.02	5.01
11		chloroethane	0.596	0.712	-19.5	146	-0.01	5.18
12		trichlorofluoromethane	1.179	1.692	-43.5#	168	-0.01	5.64
13		ethyl ether	0.275	0.295	-7.3	133	0.00	6.08
14		acrolein	0.090	0.084	6.7	114	0.00	6.29
15		2-chloropropane	0.312	0.308	1.3	112	0.00	6.24
16		freon 113	0.501	0.672	-34.1#	148	0.00	6.48
17		1,1-dichloroethene	1.088	1.015	6.7	104	0.00	6.48
18		acetone	0.044	0.039	11.4	121	-0.02	6.52
19		iodomethane	1.004	1.211	-20.6#	136	0.00	6.74
20		carbon disulfide	2.473	2.490	-0.7	110	0.00	6.88
21		methyl acetate	0.061	0.060	1.6	136	0.00	7.02
22		allyl chloride	0.318	0.313	1.6	115	0.00	7.01
23		acetonitrile	0.048	0.046	4.2	132	-0.01	6.93
24		methylene chloride	0.692	0.699	-1.0	116	0.00	7.19
25		1-chloropropane	1.465	1.198	18.2	100	0.00	7.24
26		acrylonitrile	0.157	0.147	6.4	118	0.00	7.50
27		methyl tert butyl ether	1.956	1.969	-0.7	121	0.00	7.57
28		trans-1,2-dichloroethene	0.628	0.644	-2.5	123	0.00	7.59
29		hexane	0.989	0.743	24.9#	95	0.00	7.93
30		di-isopropyl ether	2.633	2.235	15.1	101	0.00	8.18
31		vinyl acetate	0.043	0.052	-20.9#	163	0.00	8.18
32		1,1-dichloroethane	1.241	1.169	5.8	110	0.00	8.15
33		chloroprene	1.004	0.881	12.3	104	0.00	8.27
34		ethyl tert-butyl ether	2.233	2.160	3.3	115	0.00	8.65
35		2-butanone	0.043	0.043	0.0	123	0.00	8.91
36		ethyl acetate	0.063	0.064	-1.6	137	0.00	8.93
37		2,2-dichloropropane	1.296	1.212	6.5	110	0.00	8.91
38		cis-1,2-dichloroethene	0.663	0.660	0.5	121	0.00	8.90
39		methacrylonitrile	0.161	0.150	6.8	125	0.00	9.14
40		propionitrile	0.063	0.055	12.7	117	0.00	8.94
41		bromochloromethane	0.248	0.290	-16.9	141	0.00	9.21

Continuing Calibration Summary

Job Number: JB94209 **Sample:** VI8197-CC8156
Account: PTCNJB PT Consultants **Lab FileID:** I204003.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

42		tetrahydrofuran	0.051	0.049	3.9	126	0.00	9.27
43		chloroform	1.104	1.097	0.6	123	0.00	9.27
44		tert-Butyl Formate	0.505	0.481	4.8	116	-0.01	9.31
45	S	dibromofluoromethane (s)	0.526	0.498	5.3	109	0.00	9.47
46		1,1,1-trichloroethane	1.098	1.155	-5.2	121	0.00	9.54
47		cyclohexane	1.119	1.077	3.8	109	0.00	9.63
48	I	1,4-difluorobenzene	1.000	1.000	0.0	118	0.00	10.37
49	s	1,2-dichloroethane-d4 (s	0.447	0.387	13.4	98	0.00	9.89
50		iso-butyl alcohol	0.019	0.016	15.8	116	0.00	9.74
51		1,1-dichloropropene	0.681	0.662	2.8	109	0.00	9.73
52		carbon tetrachloride	0.735	0.809	-10.1	124	0.00	9.75
53		isopropyl acetate	0.136	0.239	-75.7#	221#	0.00	9.93
54		benzene	2.073	2.009	3.1	117	0.00	9.98
55		2,2,4-trimethylpentane	2.327	2.165	7.0	113	0.00	10.02
56		tert-amyl methyl ether	1.471	1.498	-1.8	123	0.00	10.04
57		1,2-dichloroethane	0.546	0.544	0.4	118	0.00	9.98
58		heptane	0.460	0.380	17.4	106	0.00	10.20
59		n-butyl alcohol	0.011	0.010	9.1	127	0.00	10.51
60		trichloroethene	0.481	0.511	-6.2	125	0.00	10.72
61		methyl acrylate		----------NA----------				
62		methyl methacrylate	0.211	0.211	0.0	129	0.00	11.00
63		1,2-dichloropropane	0.543	0.524	3.5	114	0.00	10.97
64		methylcyclohexane	0.928	0.919	1.0	114	0.00	10.95
65		dibromomethane	0.232	0.270	-16.4	142	0.00	11.12
66		bromodichloromethane	0.600	0.642	-7.0	130	0.00	11.26
67		2-nitropropane	0.075	0.067	10.7	111	0.00	11.46
68		2-chloroethyl vinyl ether	0.205	0.201	2.0	118	0.00	11.51
69		epichlorohydrin	0.043	0.039	9.3	120	0.00	11.51
70		cis-1,3-dichloropropene	0.722	0.744	-3.0	121	0.00	11.73
71		4-methyl-2-pentanone	0.138	0.130	5.8	123	0.00	11.82
72		3-methyl-1-butanol	0.009	0.009	0.0	140	0.00	11.85
73		toluene	2.016	2.013	0.1	123	0.00	12.10
74		trans-1,3-dichloropropene	0.586	0.618	-5.5	125	0.00	12.29
75		ethyl methacrylate	0.423	0.423	0.0	125	0.00	12.30
76		1,1,2-trichloroethane	0.274	0.310	-13.1	139	0.00	12.49
77		1,3-dichloropropane	0.522	0.560	-7.3	132	0.00	12.67
78		2-hexanone	0.113	0.113	0.0	118	0.01	12.69
79	I	chlorobenzene-d5	1.000	1.000	0.0	125	0.00	13.52
80	S	toluene-d8 (s)	2.089	1.928	7.7	110	0.00	12.02
81		tetrachloroethene	0.544	0.591	-8.6	133	0.00	12.69
82		butyl acetate	0.262	0.221	15.6	119	0.00	12.78
83		3,3-Dimethyl-1-Butanol	0.047	0.041	12.8	125	0.00	12.85
84		dibromochloromethane	0.458	0.534	-16.6	151	0.00	12.94
85		1,2-dibromoethane	0.360	0.414	-15.0	146	0.00	13.09
86		n-butyl ether	3.007	2.337	22.3#	98	0.00	13.51
87		chlorobenzene	1.367	1.449	-6.0	128	0.00	13.56
88		1,1,1,2-tetrachloroethane	0.550	0.572	-4.0	131	0.00	13.61
89		ethylbenzene	2.675	2.570	3.9	119	0.00	13.62
90		m,p-xylene	0.963	0.959	0.4	121	0.00	13.73
91		o-xylene	0.980	0.940	4.1	118	0.00	14.14
92		styrene	1.505	1.530	-1.7	124	0.00	14.15
93		bromoform	0.262	0.347	-32.4#	169	0.00	14.40
94	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	125	0.00	15.84
95	S	4-bromofluorobenzene (s)	1.385	1.346	2.8	117	0.00	14.68
96		isopropylbenzene	5.142	4.906	4.6	117	0.00	14.49
97		cyclohexanone	0.069	0.025	63.8#	61	0.00	14.62
98		1,1,2,2-tetrachloroethane	1.031	1.070	-3.8	139	0.00	14.77

Continuing Calibration Summary

Job Number: JB94209 **Sample:** VI8197-CC8156
Account: PTCNJB PT Consultants **Lab FileID:** I204003.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

99	trans-1,4-dichloro-2-bute	0.262	0.222	15.3	116	0.00	14.81
100	1,2,3-trichloropropane	0.203	0.237	-16.7	152	0.00	14.84
101	bromobenzene	1.061	1.245	-17.3	144	0.00	14.87
102	n-propylbenzene	5.787	5.648	2.4	117	0.00	14.90
103	2-chlorotoluene	1.152	1.184	-2.8	126	0.00	15.03
104	4-chlorotoluene	3.561	3.463	2.8	120	0.00	15.13
105	1,3,5-trimethylbenzene	4.432	4.282	3.4	118	0.00	15.05
106	tert-butylbenzene	3.560	3.504	1.6	121	0.00	15.39
107	pentachloroethane	0.768	0.840	-9.4	140	0.00	15.46
108	1,2,4-trimethylbenzene	4.348	4.099	5.7	118	0.00	15.44
109	sec-butylbenzene	5.973	5.837	2.3	119	0.00	15.61
110	p-isopropyltoluene	5.000	4.726	5.5	118	0.00	15.73
111	benzyl chloride	1.983	1.652	16.7	112	0.00	15.97
112	1,3-dichlorobenzene	2.279	2.377	-4.3	128	0.00	15.78
113	1,4-dichlorobenzene	2.350	2.391	-1.7	130	0.00	15.86
114	1,2-dichlorobenzene	2.227	2.447	-9.9	137	0.00	16.26
115	n-butylbenzene	2.738	2.502	8.6	110	0.00	16.15
116	hexachloroethane	1.015	1.006	0.9	130	0.00	16.54
117	1,2-dibromo-3-chloropropa	0.212	0.239	-12.7	149	0.00	17.04
118	1,3,5-Trichlorobenzene	2.418	2.377	1.7	125	0.00	17.26
119	1,2,4-trichlorobenzene	2.260	2.143	5.2	120	0.00	17.90
120	hexachlorobutadiene	1.383	1.589	-14.9	143	0.00	18.04
121	naphthalene	4.313	4.178	3.1	126	0.00	18.17
122	1,2,3-trichlorobenzene	2.212	2.137	3.4	124	0.00	18.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0
I202969.D MI8156.M Tue May 12 12:11:04 2015 RPT1

6.7.12

6

New Jersey

ACCUTEST LABORATORIES

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203937.D
Acq On : 8 May 2015 1:57 pm
Operator : SCOTTM
Sample : JB94209-1,VTCL20+
Misc : MS84864,VI8194,5.0,,,,1
ALS Vial : 50 Sample Multiplier: 1

Quant Time: May 08 16:09:58 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 30 09:04:29 2015
Response via : Initial Calibration

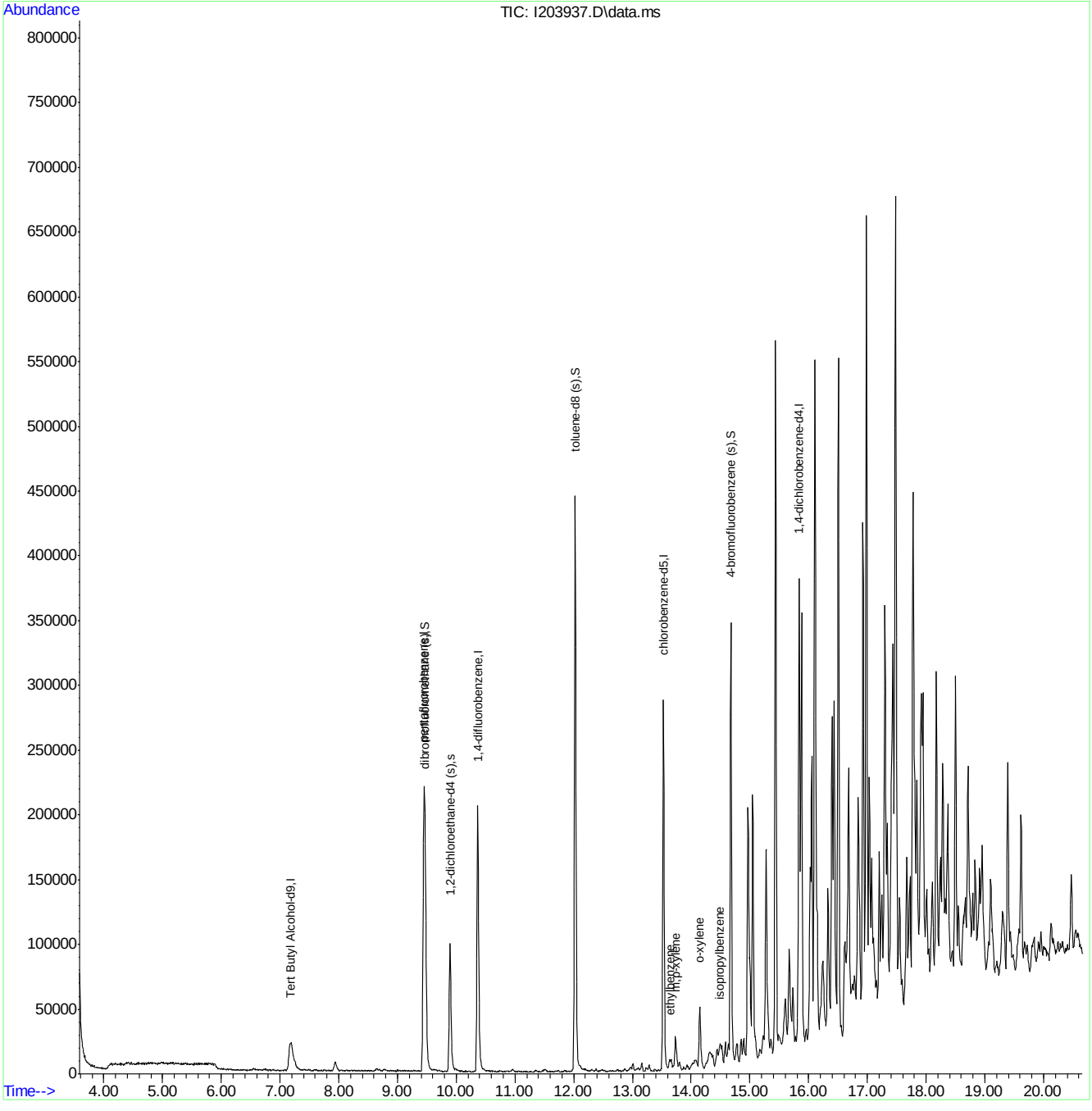
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.180	65	59952	500.00	ug/L	-0.02
5) pentafluorobenzene	9.450	168	155580	50.00	ug/L	0.00
48) 1,4-difluorobenzene	10.365	114	187111	50.00	ug/L	0.00
79) chlorobenzene-d5	13.525	117	158238	50.00	ug/L	0.00
94) 1,4-dichlorobenzene-d4	15.842	152	78363	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.471	113	81107	49.57	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.14%			
49) 1,2-dichloroethane-d4...	9.895	65	83122	49.70	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 99.40%			
80) toluene-d8 (s)	12.023	98	309999	46.90	ug/L	0.00
Spiked Amount 50.000	Range 78 - 129		Recovery = 93.80%			
95) 4-bromofluorobenzene (s)	14.675	95	112324	51.76	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 103.52%			
Target Compounds						Qvalue
89) ethylbenzene	13.629	91	3041	0.36	ug/L	91
90) m,p-xylene	13.734	106	7231	2.37	ug/L	92
91) o-xylene	14.147	106	10820	3.49	ug/L	92
96) isopropylbenzene	14.492	105	4074	0.51	ug/L	93

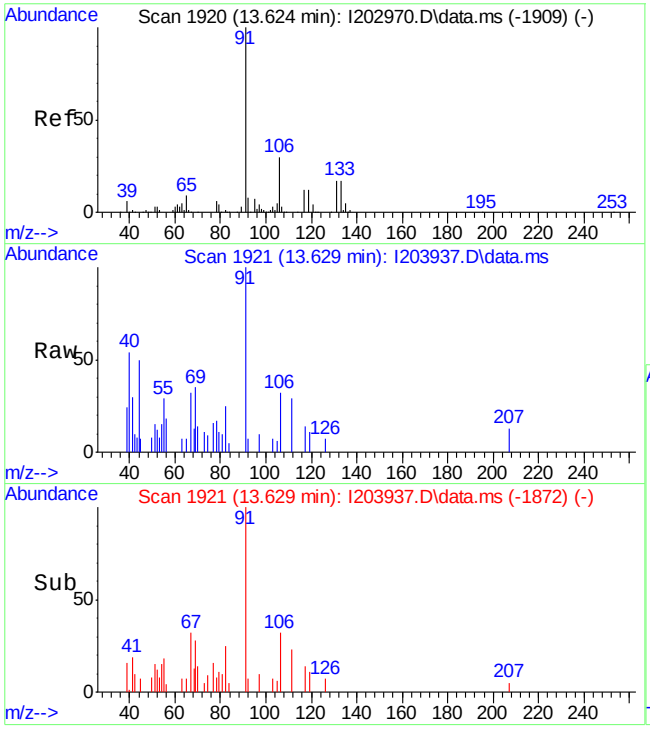
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203937.D
Acq On : 8 May 2015 1:57 pm
Operator : SCOTTM
Sample : JB94209-1,VTCL20+
Misc : MS84864,VI8194,5.0,,,,1
ALS Vial : 50 Sample Multiplier: 1

Quant Time: May 08 16:09:58 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 30 09:04:29 2015
Response via : Initial Calibration

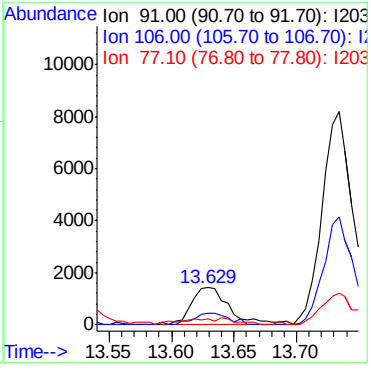


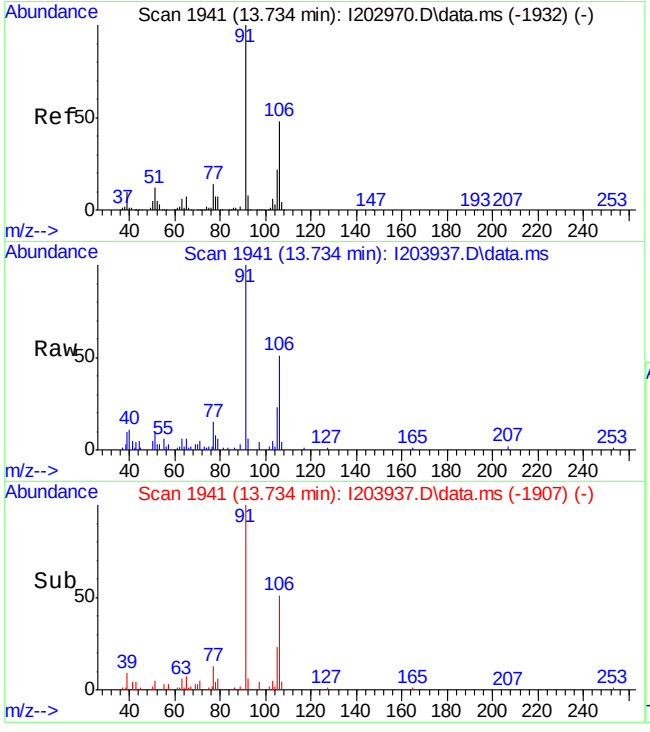


#89
ethylbenzene
Concen: 0.36 ug/L
RT: 13.629 min Scan# 1921
Delta R.T. 0.005 min
Lab File: I203937.D
Acq: 8 May 2015 1:57 pm

Tgt Ion: 91 Resp: 3041

Ion	Ratio	Lower	Upper
91	100		
106	32.4	0.0	59.6
77	16.5	0.0	38.5

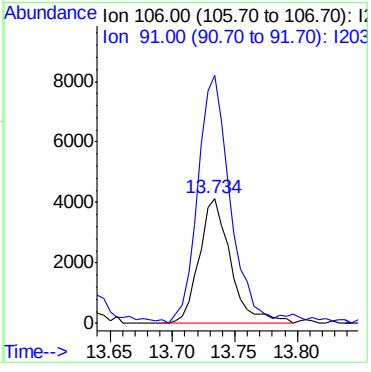


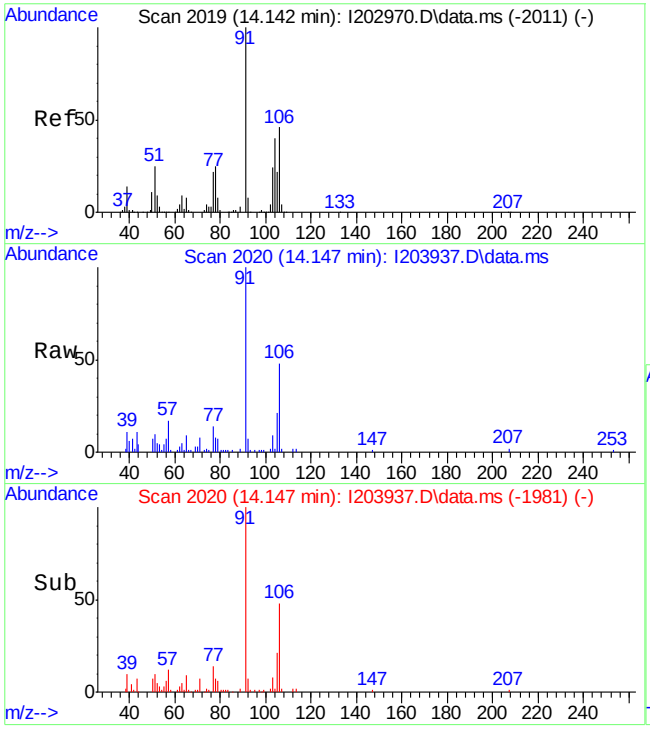


#90
m,p-xylene
Concen: 2.37 ug/L
RT: 13.734 min Scan# 1941
Delta R.T. 0.000 min
Lab File: I203937.D
Acq: 8 May 2015 1:57 pm

Tgt Ion:106 Resp: 7231

Ion	Ratio	Lower	Upper
106	100		
91	194.7	145.4	270.0

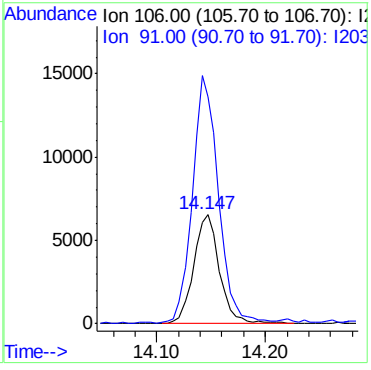


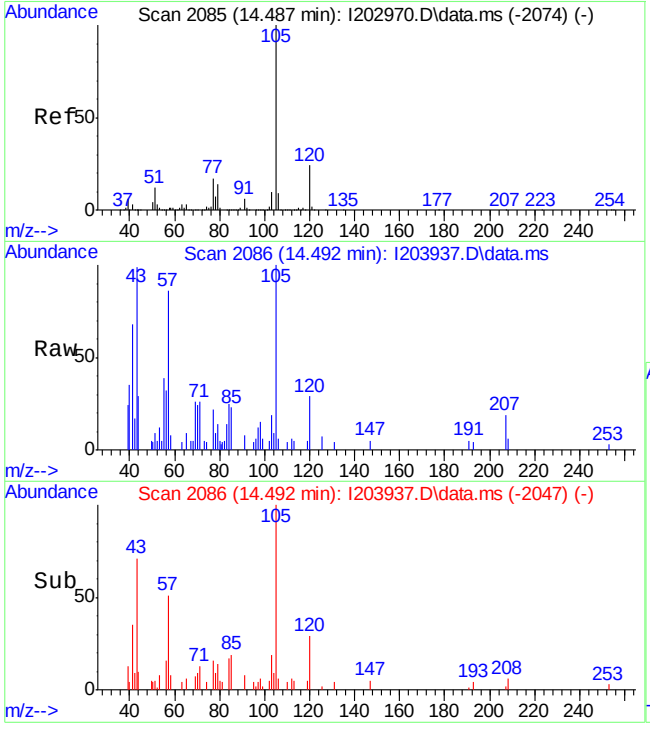


#91
o-xylene
Concen: 3.49 ug/L
RT: 14.147 min Scan# 2020
Delta R.T. 0.005 min
Lab File: I203937.D
Acq: 8 May 2015 1:57 pm

Tgt Ion:106 Resp: 10820

Ion	Ratio	Lower	Upper
106	100		
91	206.1	152.7	283.7

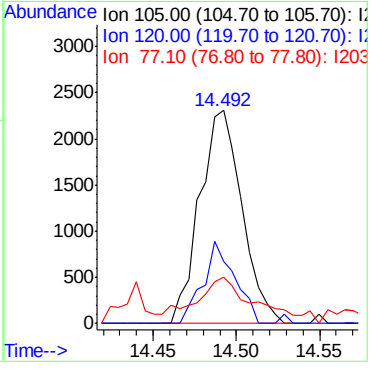




#96
isopropylbenzene
Concen: 0.51 ug/L
RT: 14.492 min Scan# 2086
Delta R.T. 0.005 min
Lab File: I203937.D
Acq: 8 May 2015 1:57 pm

Tgt Ion:105 Resp: 4074

Ion	Ratio	Lower	Upper
105	100		
120	29.1	0.0	54.3
77	17.9	0.0	46.8



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203937.D
Acq On : 8 May 2015 1:57 pm
Operator : SCOTTM
Sample : JB94209-1,VTCL20+
Misc : MS84864,VI8194,5.0,,,,1
ALS Vial : 50 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 550 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.5 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

Signal : TIC: I20393

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.110	89	101	102	rBV4	3853	9479	0.88%	0.046%
2	6.547	560	567	574	rBV7	1497	4006	0.37%	0.020%
3	6.814	615	618	621	rBV3	1273	1420	0.13%	0.007%
4	7.185	674	689	710	rBV3	21707	112364	10.43%	0.549%
5	7.939	824	833	850	rVB4	6722	20280	1.88%	0.099%
6	8.237	883	890	892	rVB6	963	1605	0.15%	0.008%
7	8.765	989	991	1002	rVB6	1534	3650	0.34%	0.018%
8	9.027	1039	1041	1048	rVV3	1100	1375	0.13%	0.007%
9	9.450	1111	1122	1151	rBV2	220280	714600	66.36%	3.489%
10	9.701	1169	1170	1178	rVB2	1182	1557	0.14%	0.008%
11	9.895	1195	1207	1222	rBV	98771	225140	20.91%	1.099%
12	10.094	1241	1245	1248	rVB4	1194	1594	0.15%	0.008%
13	10.365	1288	1297	1322	rVV	205175	438567	40.72%	2.141%
14	10.951	1399	1409	1418	rVB6	1821	4707	0.44%	0.023%
15	11.349	1475	1485	1494	rBV3	1592	4756	0.44%	0.023%
16	11.908	1587	1592	1596	rVB4	1112	2282	0.21%	0.011%
17	12.023	1596	1614	1639	rBV	444936	833492	77.40%	4.069%
18	12.301	1662	1667	1674	rBV4	1469	2763	0.26%	0.013%
19	12.379	1677	1682	1690	rVB6	2608	3910	0.36%	0.019%
20	12.489	1697	1703	1707	rBV3	1117	1791	0.17%	0.009%
21	12.614	1719	1727	1734	rBV6	1671	4502	0.42%	0.022%
22	12.750	1746	1753	1756	rBV6	1329	2050	0.19%	0.010%
23	12.834	1764	1769	1771	rBV4	1524	1910	0.18%	0.009%
24	12.871	1771	1776	1782	rVV6	2511	4620	0.43%	0.023%
25	12.970	1783	1795	1798	rVV7	3312	8836	0.82%	0.043%
26	13.007	1798	1802	1811	rVV6	6128	12081	1.12%	0.059%
27	13.096	1811	1819	1824	rVV8	2898	7999	0.74%	0.039%
28	13.158	1825	1831	1837	rVV	6114	11010	1.02%	0.054%
29	13.232	1840	1845	1849	rBV4	3474	5496	0.51%	0.027%
30	13.284	1850	1855	1861	rVB3	4758	8055	0.75%	0.039%
31	13.373	1870	1872	1879	rVB4	1960	2623	0.24%	0.013%
32	13.441	1879	1885	1889	rBV6	1707	2600	0.24%	0.013%
33	13.525	1890	1901	1916	rBV	286711	500586	46.48%	2.444%
34	13.634	1916	1922	1925	rBV7	7133	13596	1.26%	0.066%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203937.D
Acq On : 8 May 2015 1:57 pm
Operator : SCOTTM
Sample : JB94209-1,VTCL20+
Misc : MS84864,VI8194,5.0,,,,1
ALS Vial : 50 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 550 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.5 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

35	13.734	1935	1941	1949	rVB3	23287	44541	4.14%	0.217%
36	13.802	1950	1954	1961	rVB7	6155	11648	1.08%	0.057%
37	13.875	1961	1968	1974	rBV7	2593	4721	0.44%	0.023%
38	13.927	1974	1978	1987	rVB6	3841	6913	0.64%	0.034%
39	14.027	1987	1997	1999	rBV8	5329	13827	1.28%	0.068%
40	14.147	2013	2020	2034	rVB2	47149	98663	9.16%	0.482%
41	14.252	2034	2040	2041	rBV5	4192	4987	0.46%	0.024%
42	14.314	2043	2052	2060	rBV5	9126	30041	2.79%	0.147%
43	14.440	2068	2076	2080	rBV9	13601	28589	2.65%	0.140%
44	14.492	2082	2086	2090	rVV4	7989	14787	1.37%	0.072%
45	14.581	2098	2103	2108	rBV2	16423	28426	2.64%	0.139%
46	14.633	2109	2113	2116	rVV4	13738	21985	2.04%	0.107%
47	14.675	2116	2121	2133	rVB	338793	544772	50.59%	2.660%
48	14.775	2134	2140	2149	rVB6	14081	31401	2.92%	0.153%
49	14.853	2149	2155	2159	rBV3	18167	32383	3.01%	0.158%
50	14.895	2159	2163	2169	rVV	14547	20873	1.94%	0.102%
51	14.968	2171	2177	2187	rVV	191845	408871	37.97%	1.996%
52	15.047	2187	2192	2208	rVB	204058	364846	33.88%	1.781%
53	15.162	2211	2214	2220	rBV7	5075	9062	0.84%	0.044%
54	15.224	2220	2226	2229	rBV6	14125	26658	2.48%	0.130%
55	15.277	2229	2236	2247	rVB2	153532	305356	28.35%	1.491%
56	15.434	2258	2266	2274	rBV	550434	860845	79.93%	4.203%
57	15.601	2290	2298	2304	rBV5	31680	74492	6.92%	0.364%
58	15.669	2305	2311	2319	rVV4	71001	153484	14.25%	0.749%
59	15.732	2319	2323	2329	rVB2	41967	63194	5.87%	0.309%
60	15.836	2335	2343	2347	rBV2	357584	604513	56.13%	2.951%
61	15.878	2347	2351	2362	rVB	331574	526406	48.88%	2.570%
62	15.957	2363	2366	2370	rVB6	8444	10716	1.00%	0.052%
63	16.051	2372	2384	2389	rBV2	216169	526842	48.92%	2.572%
64	16.108	2389	2395	2408	rVB2	517604	1076932	100.00%	5.257%
65	16.244	2409	2421	2430	rVB2	50286	144425	13.41%	0.705%
66	16.328	2431	2437	2444	rBV	105688	195884	18.19%	0.956%
67	16.401	2445	2451	2454	rVV	226396	364672	33.86%	1.780%
68	16.433	2454	2457	2465	rVV	235942	374552	34.78%	1.829%
69	16.506	2465	2471	2485	rVB	523917	862459	80.08%	4.210%
70	16.616	2485	2492	2497	rBV4	73475	180906	16.80%	0.883%
71	16.684	2499	2505	2513	rVB2	173768	306575	28.47%	1.497%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203937.D
Acq On : 8 May 2015 1:57 pm
Operator : SCOTTM
Sample : JB94209-1,VTCL20+
Misc : MS84864,VI8194,5.0,,,,1
ALS Vial : 50 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 550 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.5 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

72	16.846	2529	2536	2545	rVB2	156254	320787	29.79%	1.566%
73	16.924	2545	2551	2556	rBV	368035	562735	52.25%	2.747%
74	16.982	2556	2562	2567	rVV	600920	929527	86.31%	4.538%
75	17.029	2567	2571	2576	rVV3	165358	292746	27.18%	1.429%
76	17.071	2576	2579	2593	rVB3	100356	212063	19.69%	1.035%
77	17.201	2599	2604	2608	rBV2	113272	173695	16.13%	0.848%
78	17.243	2608	2612	2616	rBV2	52342	72263	6.71%	0.353%
79	17.301	2616	2623	2627	rBV2	272813	466121	43.28%	2.276%
80	17.432	2637	2648	2652	rBV3	246484	610958	56.73%	2.983%
81	17.479	2652	2657	2665	rVB2	596674	1068581	99.22%	5.217%
82	17.552	2666	2671	2684	rVB7	82972	181328	16.84%	0.885%
83	17.672	2686	2694	2698	rBV3	105726	201254	18.69%	0.983%
84	17.724	2699	2704	2708	rVB	70307	101951	9.47%	0.498%
85	17.777	2708	2714	2723	rBV3	367393	856639	79.54%	4.182%
86	17.845	2724	2727	2733	rVB2	119480	160472	14.90%	0.783%
87	17.918	2734	2741	2744	rBV2	181615	363911	33.79%	1.777%
88	18.106	2770	2777	2783	rBV5	68380	142333	13.22%	0.695%
89	18.174	2784	2790	2797	rBV	221868	355773	33.04%	1.737%
90	18.242	2798	2803	2806	rBV4	67691	116297	10.80%	0.568%
91	18.284	2807	2811	2817	rVB2	117164	200531	18.62%	0.979%
92	18.368	2823	2827	2837	rVB3	121671	230183	21.37%	1.124%
93	18.504	2846	2853	2858	rBV	224510	368124	34.18%	1.797%
94	18.713	2888	2893	2904	rVB	128645	243618	22.62%	1.189%
95	18.833	2912	2916	2924	rVB3	59989	93011	8.64%	0.454%
96	18.912	2927	2931	2934	rBV2	39843	54231	5.04%	0.265%
97	19.100	2963	2967	2983	rVB8	72145	184982	17.18%	0.903%
98	19.388	3016	3022	3028	rBV	159731	282813	26.26%	1.381%
99	19.618	3061	3066	3073	rVB	110639	183610	17.05%	0.896%
100	20.476	3225	3230	3238	rVB5	55579	97711	9.07%	0.477%

Sum of corrected areas: 20483797

LSC Report - Integrated Chromatogram

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Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203937.D
Acq On    :  8 May 2015   1:57 pm
Operator  : SCOTTM
Sample    : JB94209-1,VTCL20+
Misc      : MS84864,VI8194,5.0,,,,1
ALS Vial  : 50   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title  : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P
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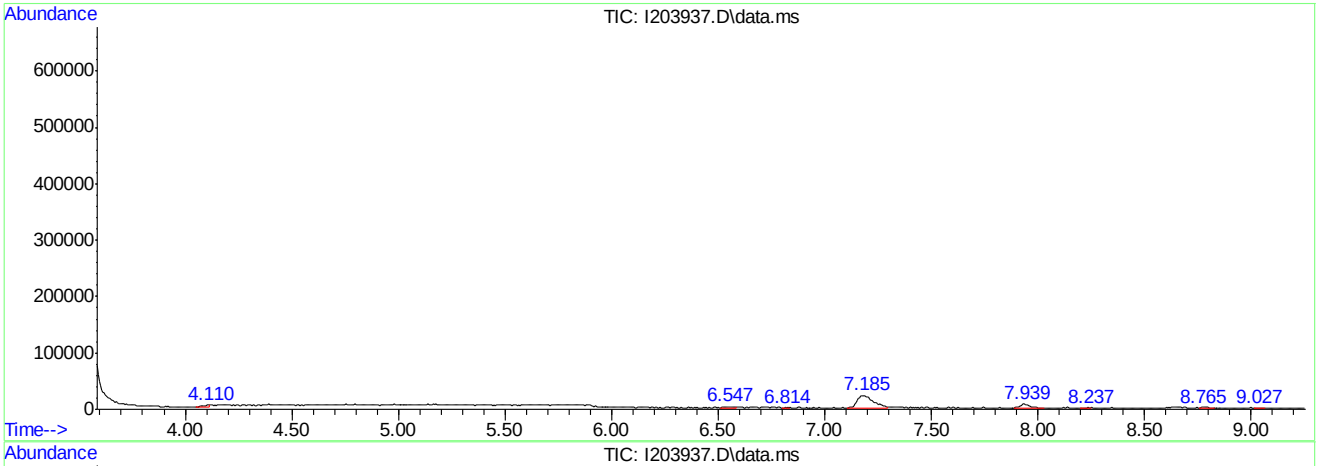
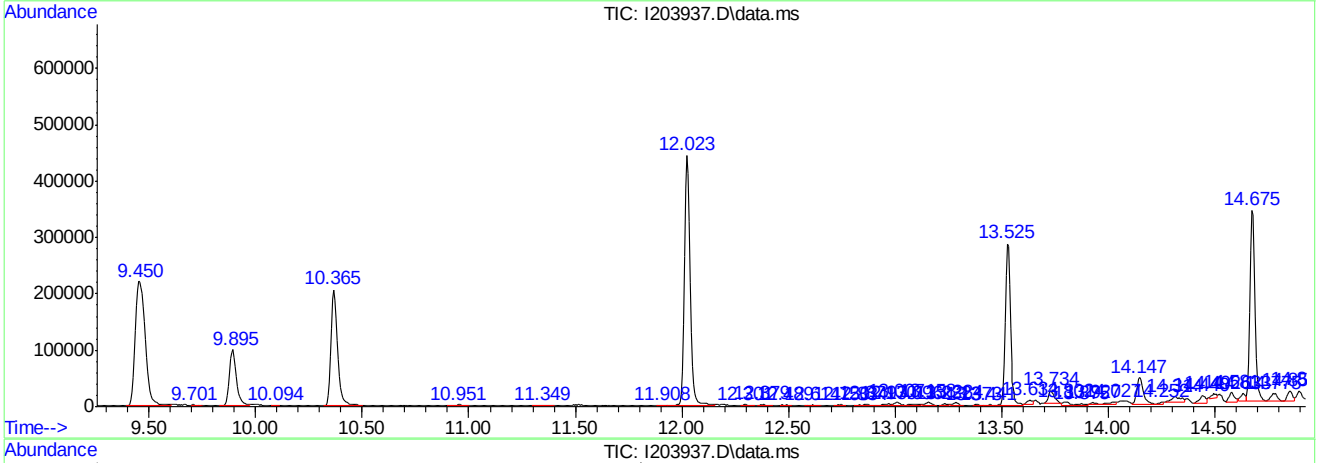
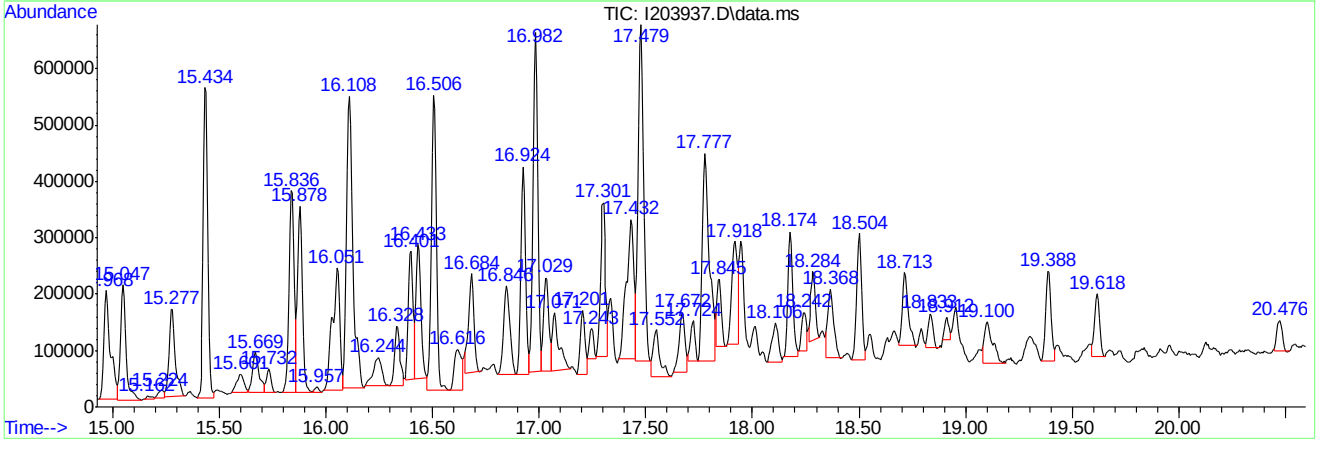






Library Search Compound Report

Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203937.D
Acq On : 8 May 2015 1:57 pm
Operator : SCOTTM
Sample : JB94209-1,VTCL20+
Misc : MS84864,VI8194,5.0,,,,1
ALS Vial : 50 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

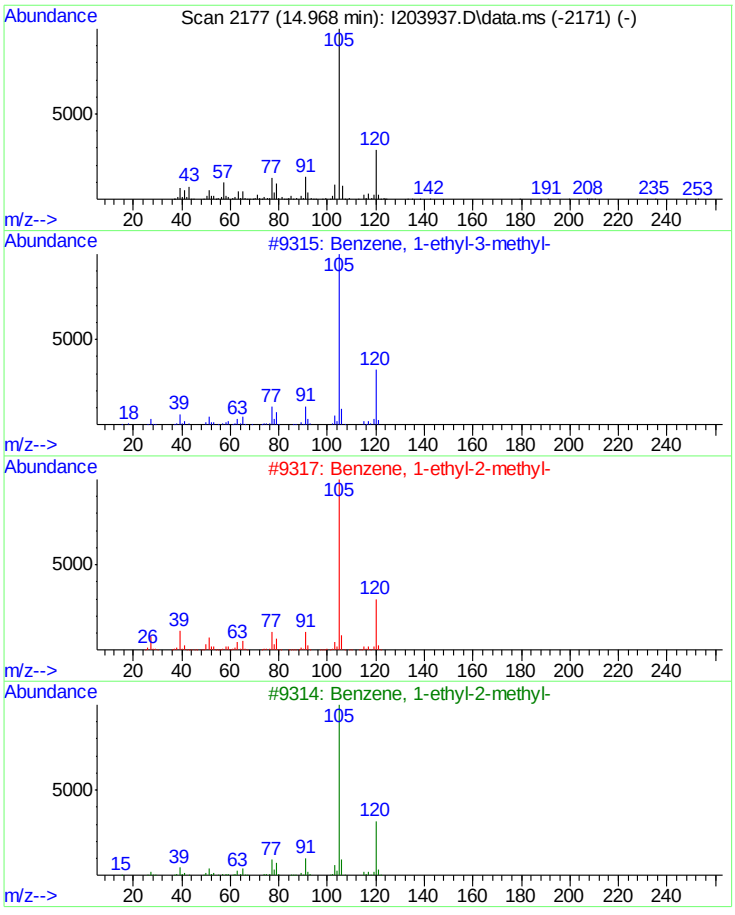
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

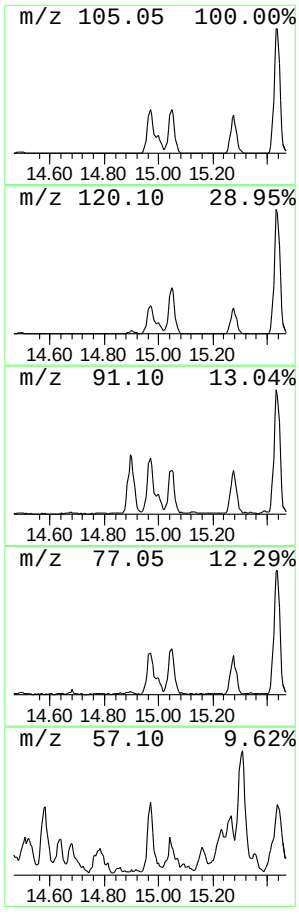
****

Peak Number 1 C3 alkyl benzene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.97	33.82 ug/L	408871	1,4-dichlorobenzene-d4	15.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	93
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	93
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	93
4	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	93
5	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	93





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203937.D
Acq On : 8 May 2015 1:57 pm
Operator : SCOTTM
Sample : JB94209-1,VTCL20+
Misc : MS84864,VI8194,5.0,,,,1
ALS Vial : 50 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

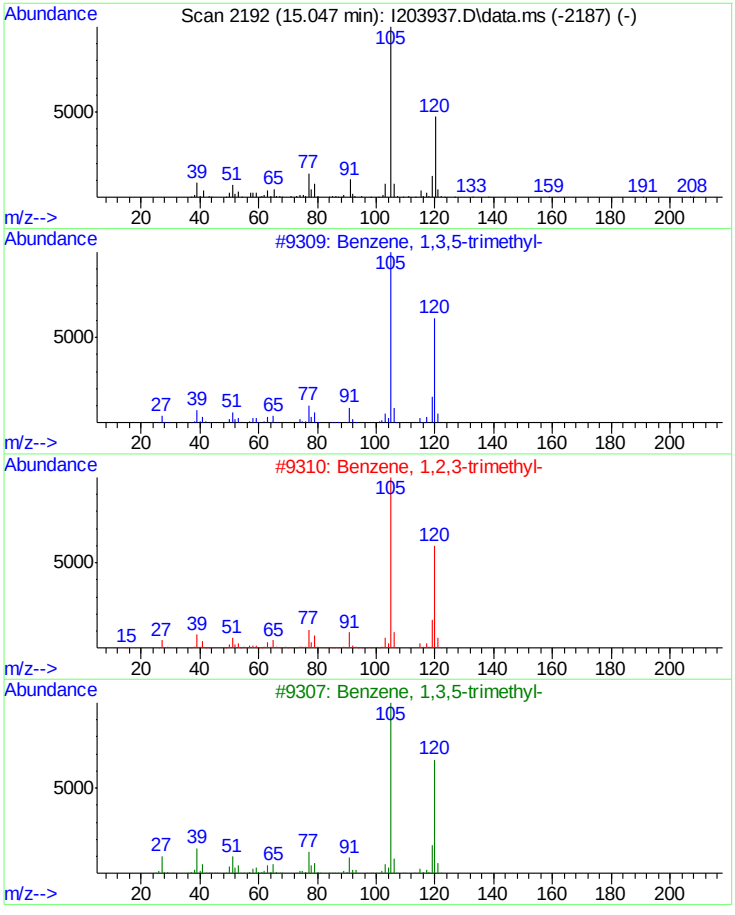
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

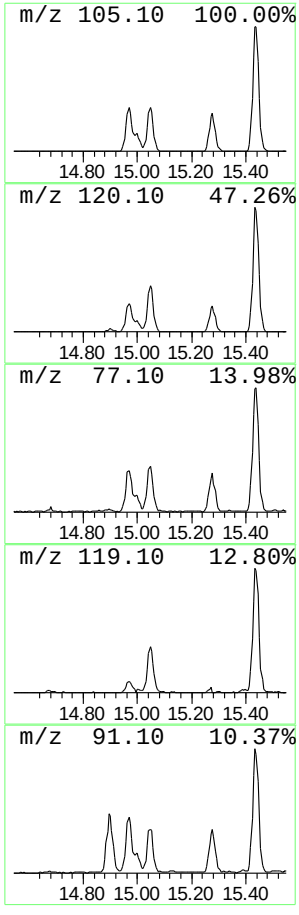
****

Peak Number 2 C3 alkyl benzene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.05	30.18 ug/L	364846	1,4-dichlorobenzene-d4	15.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	95
2	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	95
3	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	94
4	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	94
5	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	94





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203937.D
Acq On : 8 May 2015 1:57 pm
Operator : SCOTTM
Sample : JB94209-1,VTCL20+
Misc : MS84864,VI8194,5.0,,,,1
ALS Vial : 50 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

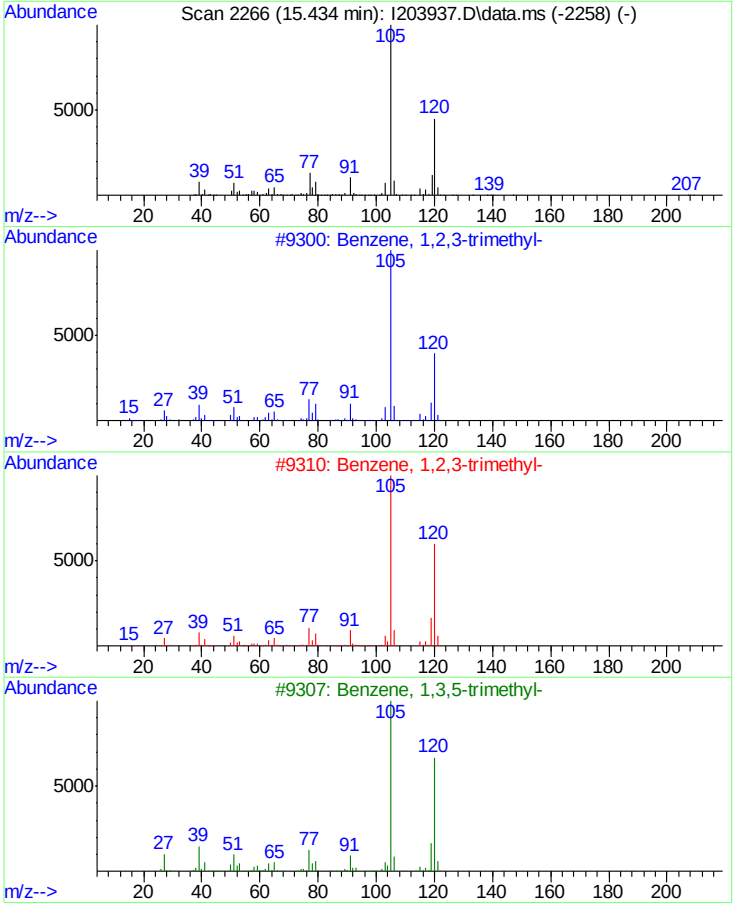
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

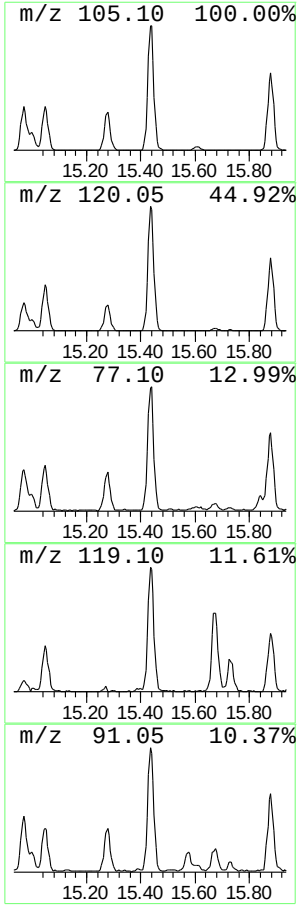
****

Peak Number 3 C3 alkyl benzene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.43	71.20 ug/L	860845	1,4-dichlorobenzene-d4	15.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	97
2	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	94
3	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	91
4	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91
5	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203937.D
Acq On : 8 May 2015 1:57 pm
Operator : SCOTTM
Sample : JB94209-1,VTCL20+
Misc : MS84864,VI8194,5.0,,,,1
ALS Vial : 50 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

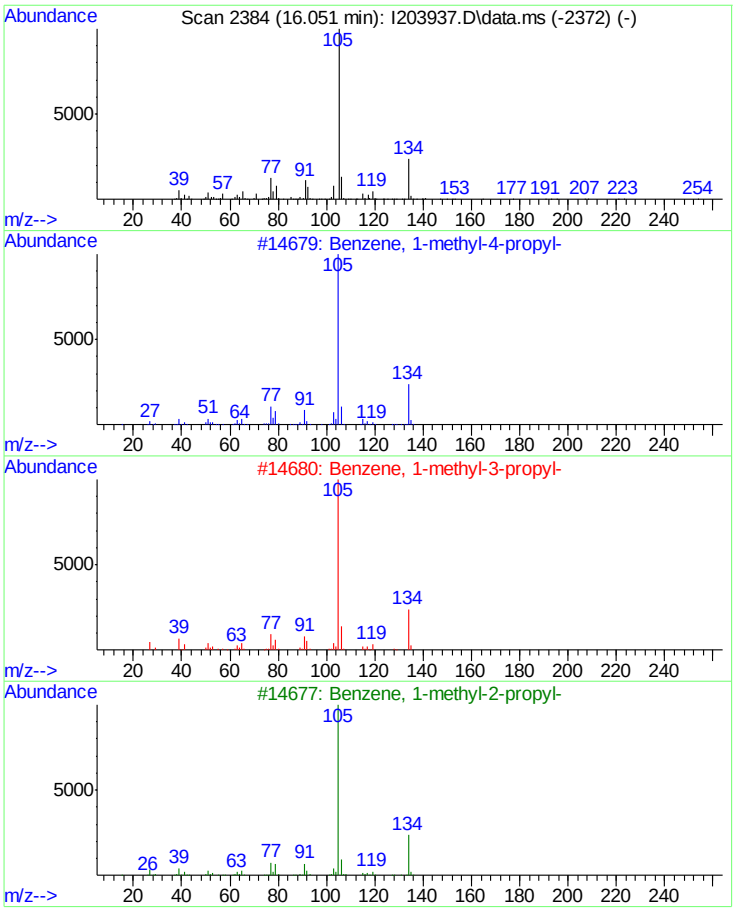
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

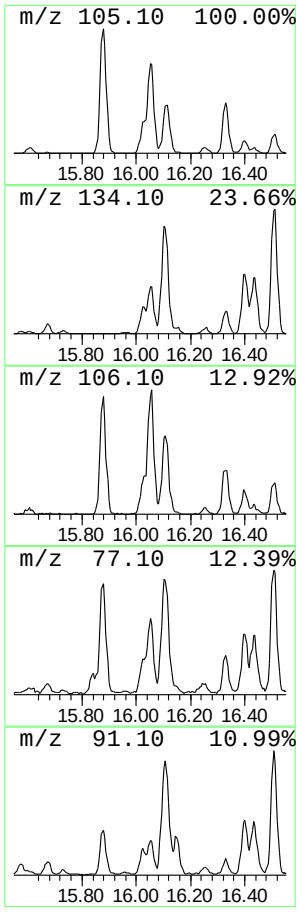
****

Peak Number 4 C3 alkyl benzene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.05	43.58 ug/L	526842	1,4-dichlorobenzene-d4	15.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	91
2	Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	91
3	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	91
4	Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	91
5	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	91





MI8156.M Fri May 08 16:11:59 2015 RPT1 Page: 8

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203937.D
Acq On : 8 May 2015 1:57 pm
Operator : SCOTTM
Sample : JB94209-1,VTCL20+
Misc : MS84864,VI8194,5.0,,,,1
ALS Vial : 50 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

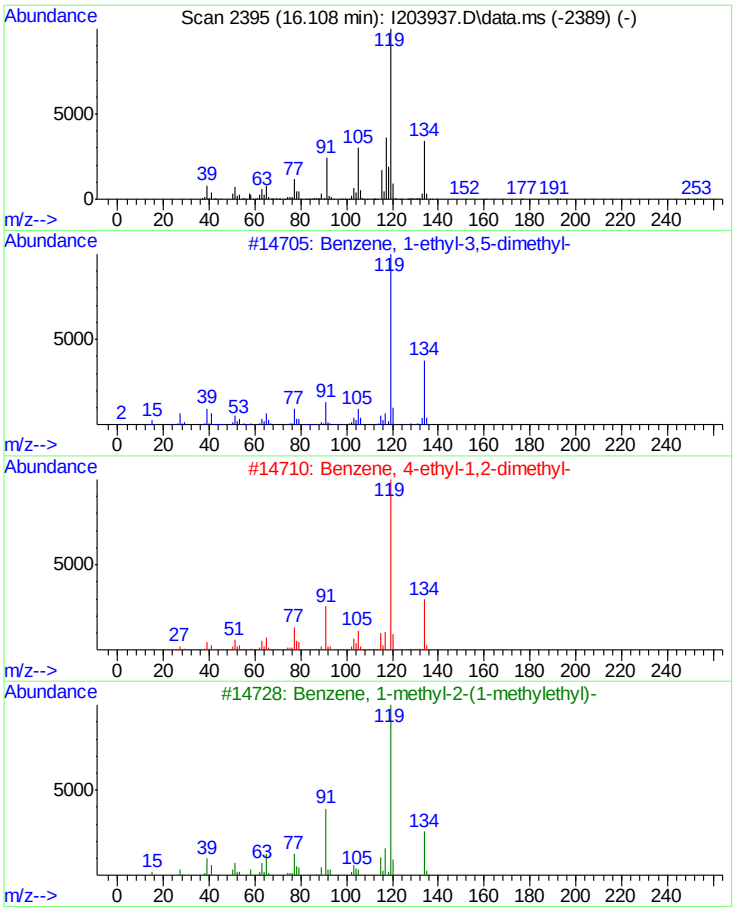
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

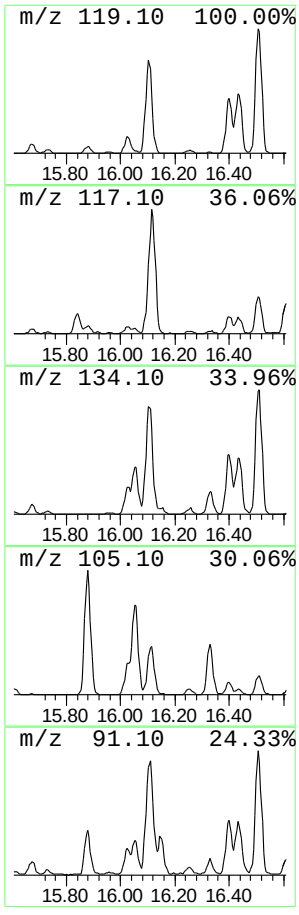
****

Peak Number 5 C4 alkyl benzene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.11	89.07 ug/L	1076930	1,4-dichlorobenzene-d4	15.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	81
2	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	76
3	Benzene, 1-methyl-2-(1-methyleth...	134	C10H14	000527-84-4	76
4	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	76
5	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	76





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203937.D
Acq On : 8 May 2015 1:57 pm
Operator : SCOTTM
Sample : JB94209-1,VTCL20+
Misc : MS84864,VI8194,5.0,,,,1
ALS Vial : 50 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

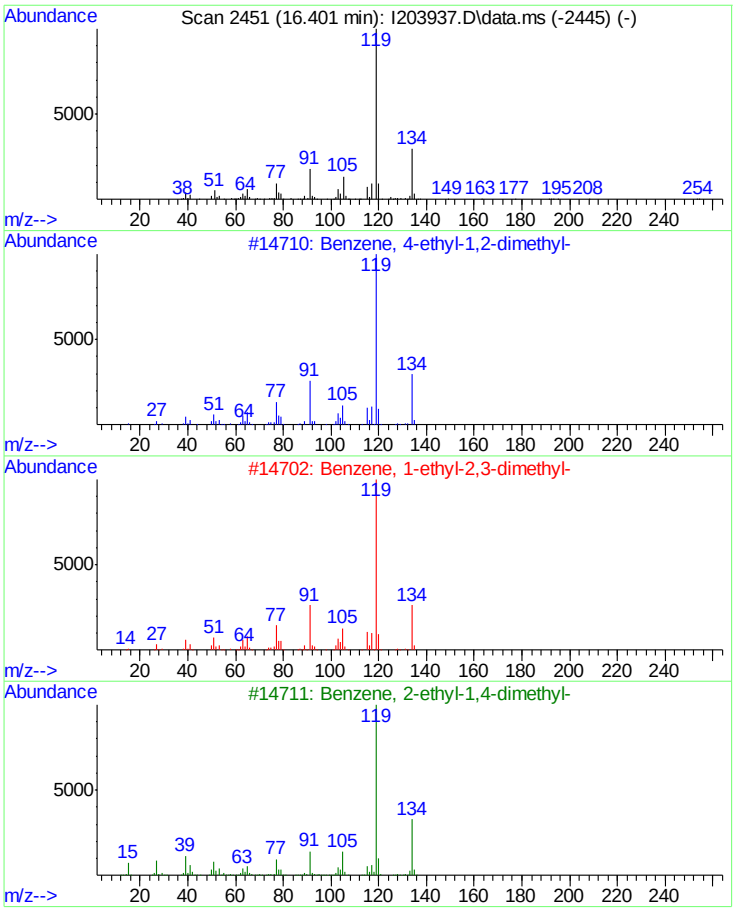
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

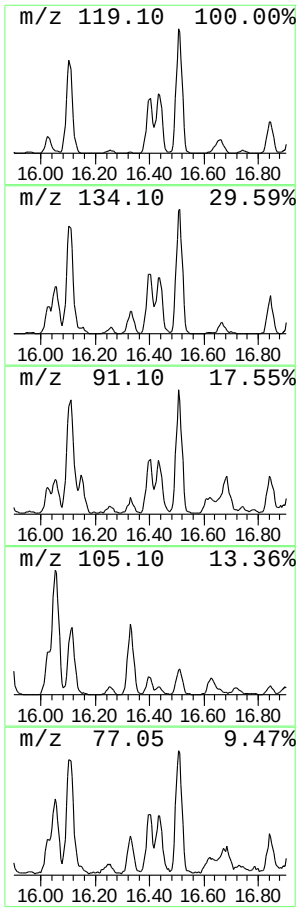
****

Peak Number 6 C4 alkyl benzene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.40	30.16 ug/L	364672	1,4-dichlorobenzene-d4	15.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	95
2	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95
3	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	94
4	Benzene, 1-methyl-2-(1-methyleth...	134	C10H14	000527-84-4	94
5	Benzene, 1-methyl-4-(1-methyleth...	134	C10H14	000099-87-6	94





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203937.D
Acq On : 8 May 2015 1:57 pm
Operator : SCOTTM
Sample : JB94209-1,VTCL20+
Misc : MS84864,VI8194,5.0,,,,1
ALS Vial : 50 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

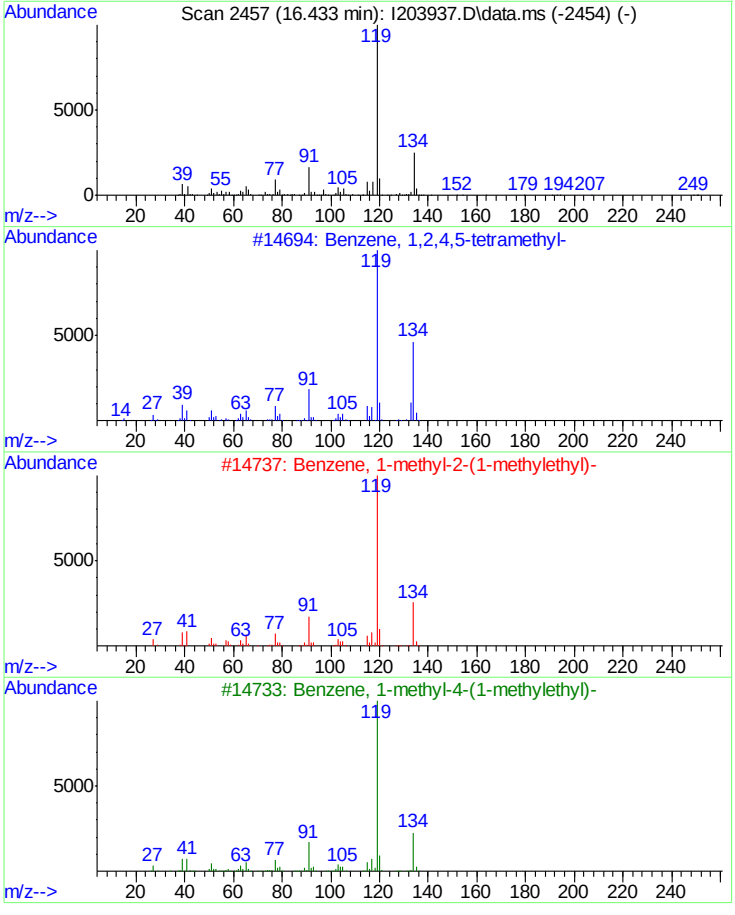
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

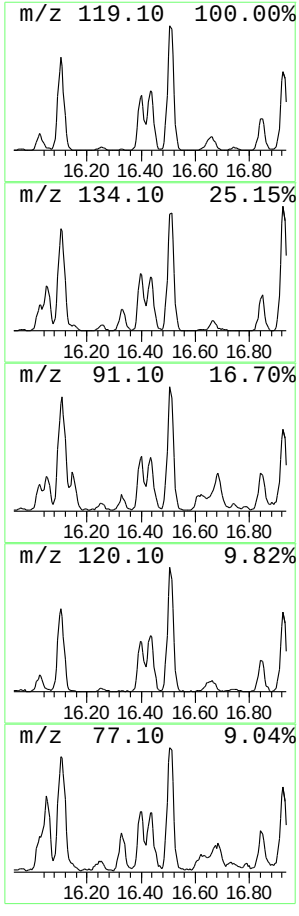
****

Peak Number 7 C4 alkyl benzene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.43	30.98 ug/L	374552	1,4-dichlorobenzene-d4	15.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	93
2	Benzene, 1-methyl-2-(1-methyleth...	134	C10H14	000527-84-4	91
3	Benzene, 1-methyl-4-(1-methyleth...	134	C10H14	000099-87-6	91
4	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	91
5	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	91





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203937.D
Acq On : 8 May 2015 1:57 pm
Operator : SCOTTM
Sample : JB94209-1,VTCL20+
Misc : MS84864,VI8194,5.0,,,,1
ALS Vial : 50 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

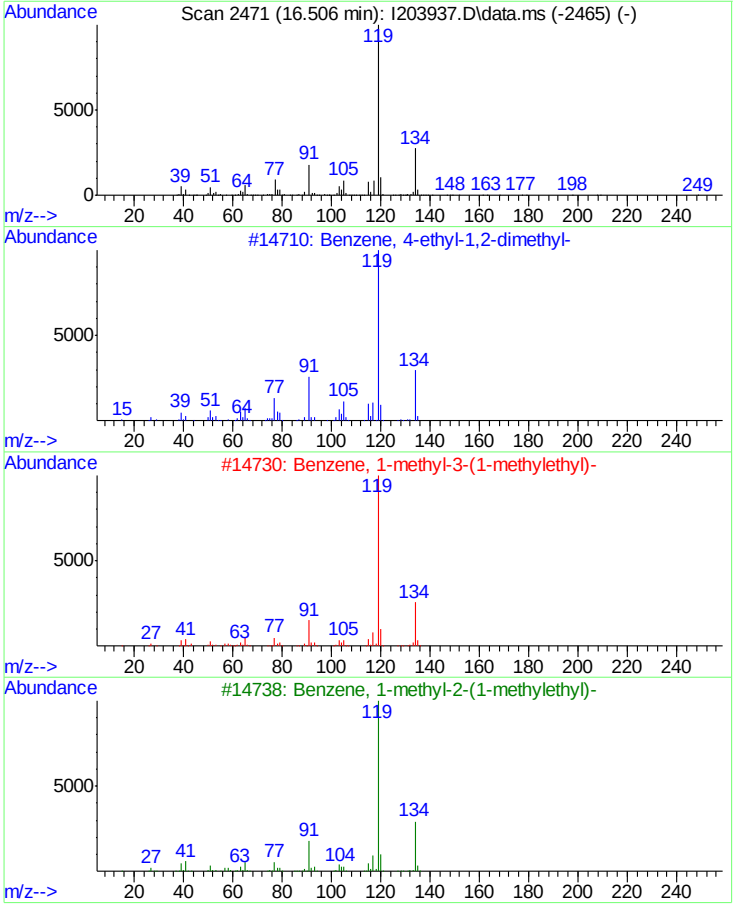
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

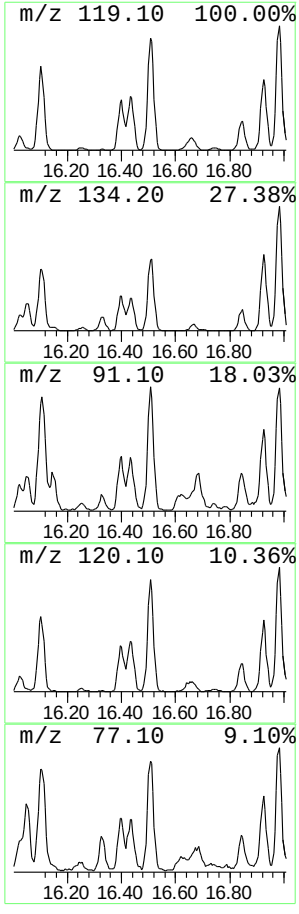
****

Peak Number 8 C4 alkyl benzene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.51	71.33 ug/L	862459	1,4-dichlorobenzene-d4	15.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	95
2	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	94
3	Benzene, 1-methyl-2-(1-methyleth...	134	C10H14	000527-84-4	94
4	Benzene, 1-methyl-4-(1-methyleth...	134	C10H14	000099-87-6	94
5	Benzene, 1-methyl-2-(1-methyleth...	134	C10H14	000527-84-4	94





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203937.D
Acq On : 8 May 2015 1:57 pm
Operator : SCOTTM
Sample : JB94209-1,VTCL20+
Misc : MS84864,VI8194,5.0,,,,1
ALS Vial : 50 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

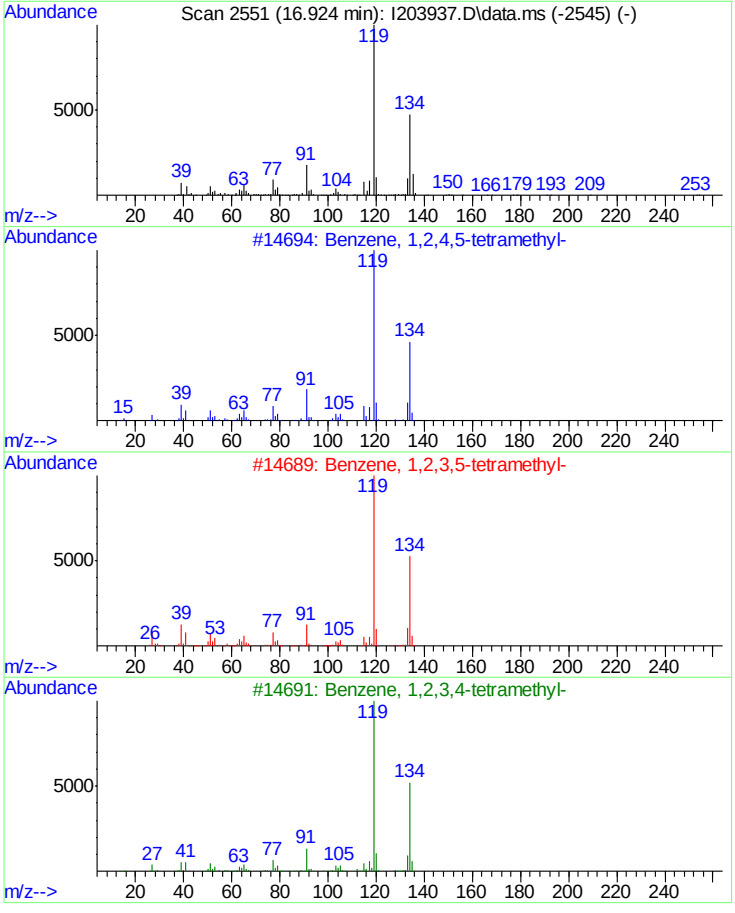
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

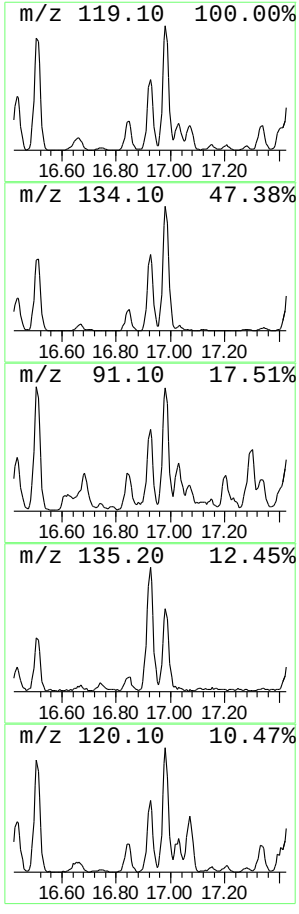
****

Peak Number 9 C4 alkyl benzene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.92	46.54 ug/L	562735	1,4-dichlorobenzene-d4	15.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	94
2	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	91
3	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	91
4	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	91
5	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	91





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203937.D
Acq On : 8 May 2015 1:57 pm
Operator : SCOTTM
Sample : JB94209-1,VTCL20+
Misc : MS84864,VI8194,5.0,,,,1
ALS Vial : 50 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

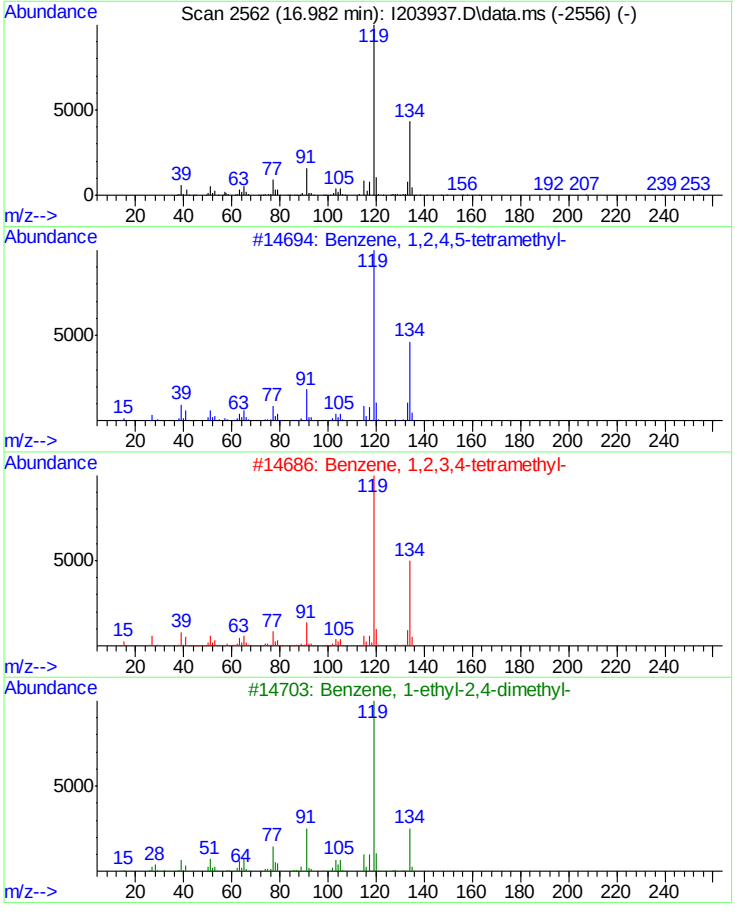
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

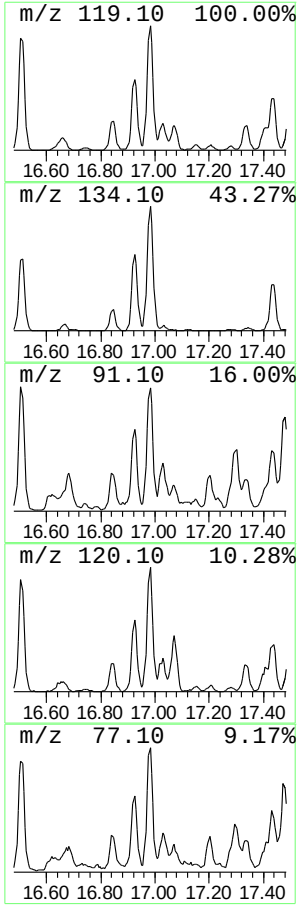
****

Peak Number 10 C4 alkyl benzene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.98	76.88 ug/L	929527	1,4-dichlorobenzene-d4	15.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	97
2	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
3	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	95
4	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	94
5	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203937.D
Acq On : 8 May 2015 1:57 pm
Operator : SCOTTM
Sample : JB94209-1,VTCL20+
Misc : MS84864,VI8194,5.0,,,,1
ALS Vial : 50 Sample Multiplier: 1

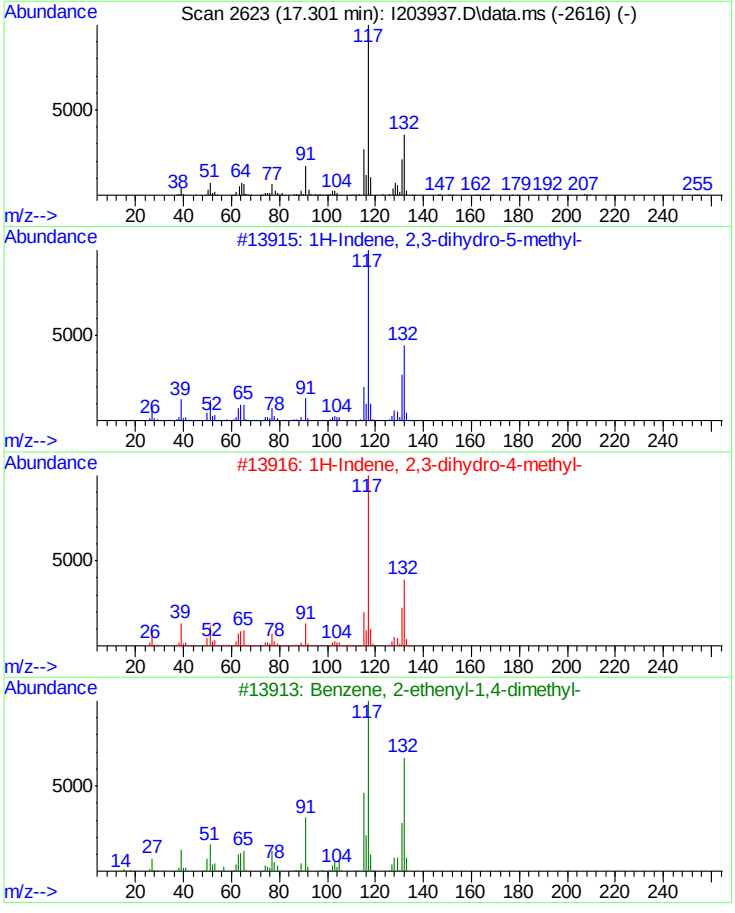
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

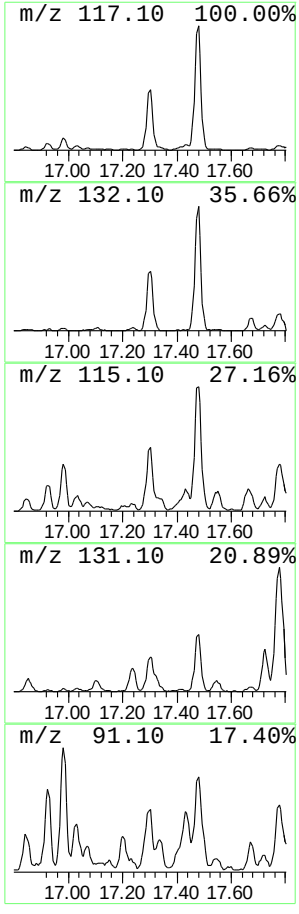
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

****
Peak Number 11 1H-Indene-dihydro-methyl- i... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.30	38.55 ug/L	466121	1,4-dichlorobenzene-d4	15.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	91
2	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	91
3	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	83
4	Indan, 1-methyl-	132	C10H12	000767-58-8	81
5	Indan, 1-methyl-	132	C10H12	000767-58-8	74





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203937.D
Acq On : 8 May 2015 1:57 pm
Operator : SCOTTM
Sample : JB94209-1,VTCL20+
Misc : MS84864,VI8194,5.0,,,,1
ALS Vial : 50 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

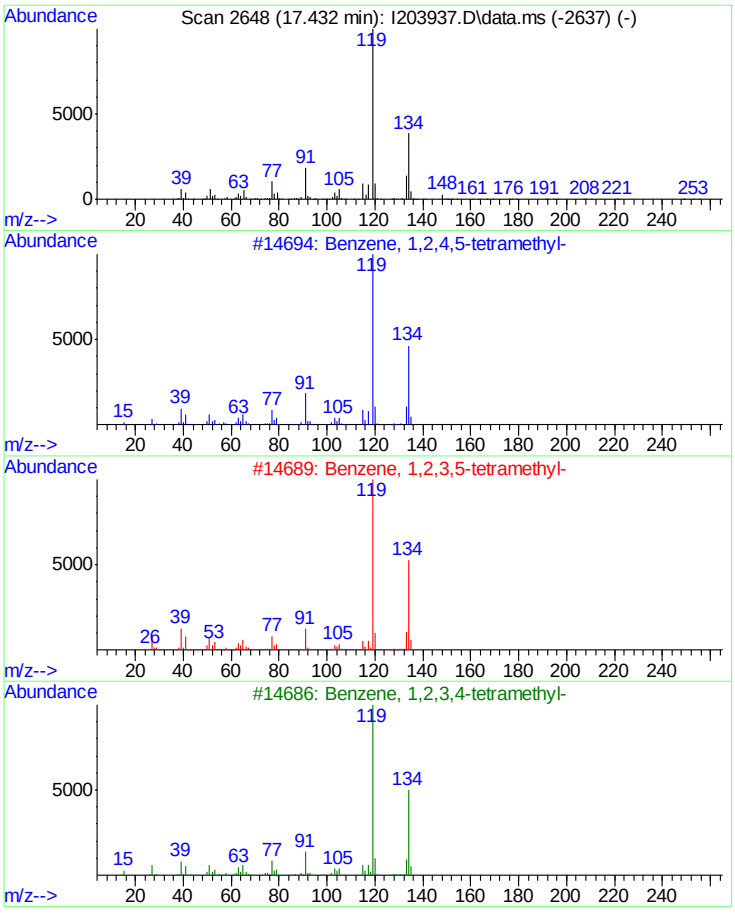
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

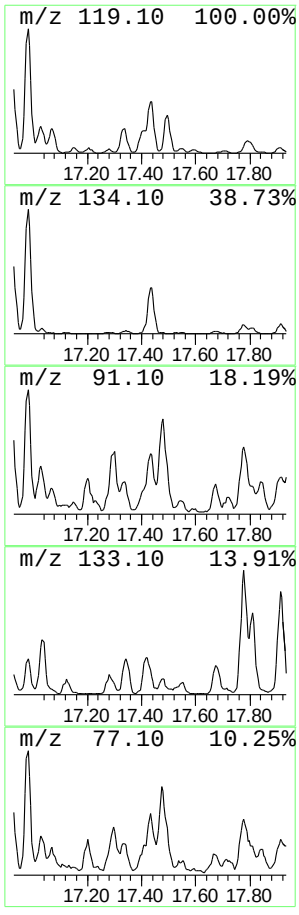
****

Peak Number 12 C4 alkyl benzene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.43	50.53 ug/L	610958	1,4-dichlorobenzene-d4	15.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	95
2	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94
3	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	93
4	1,3-Cyclopentadiene, 1,2,3,4-tet...	134	C10H14	076089-59-3	93
5	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	93





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203937.D
Acq On : 8 May 2015 1:57 pm
Operator : SCOTTM
Sample : JB94209-1,VTCL20+
Misc : MS84864,VI8194,5.0,,,,1
ALS Vial : 50 Sample Multiplier: 1

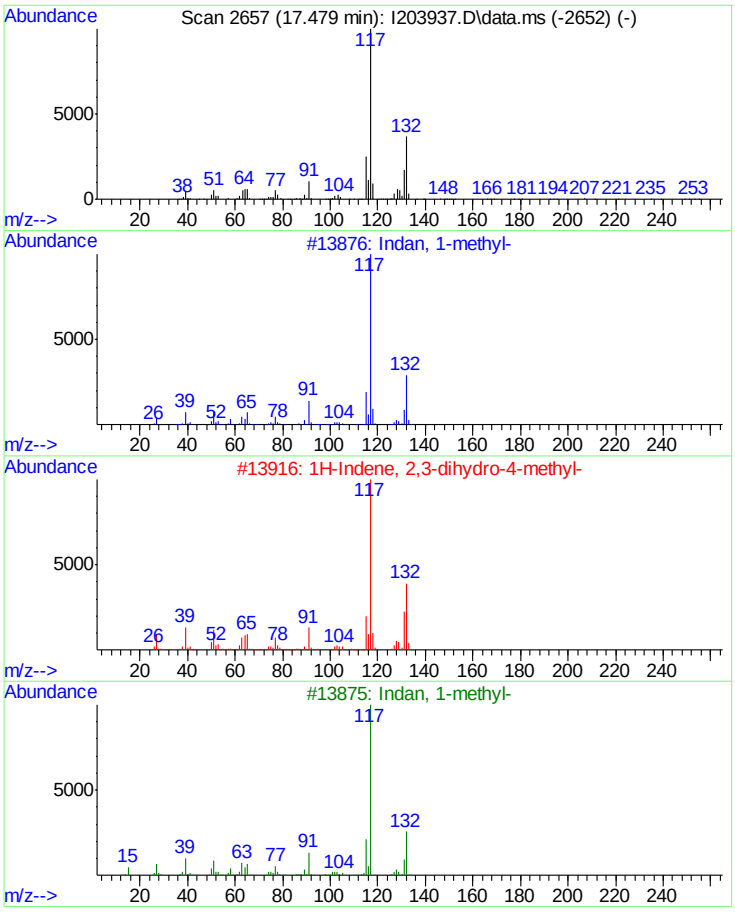
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

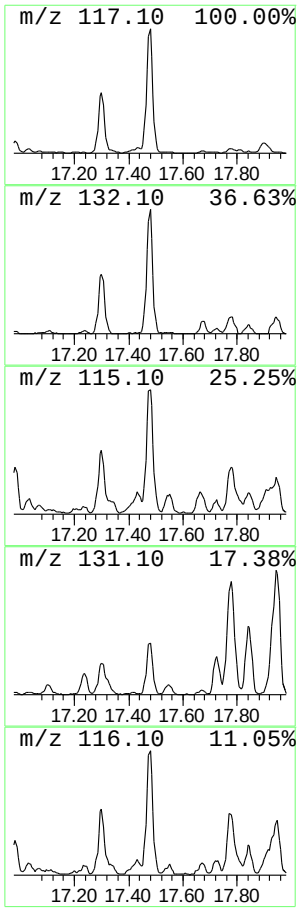
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

****
Peak Number 13 1H-Indene-dihydro-methyl- i... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.48	88.38 ug/L	1068580	1,4-dichlorobenzene-d4	15.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indan, 1-methyl-	132	C10H12	000767-58-8	87
2	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	87
3	Indan, 1-methyl-	132	C10H12	000767-58-8	87
4	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	86
5	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	81





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203937.D
Acq On : 8 May 2015 1:57 pm
Operator : SCOTTM
Sample : JB94209-1,VTCL20+
Misc : MS84864,VI8194,5.0,,,,1
ALS Vial : 50 Sample Multiplier: 1

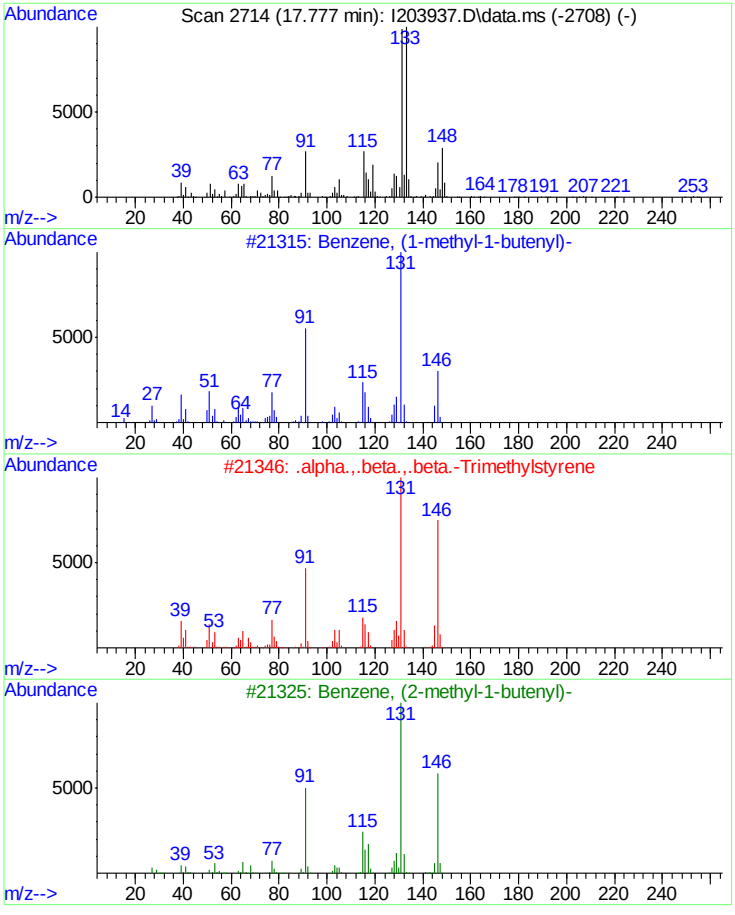
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

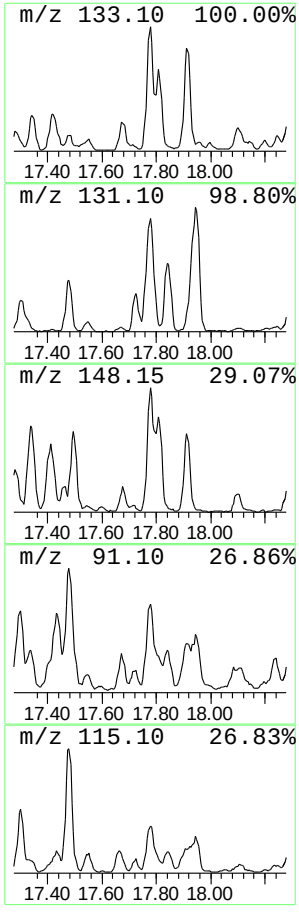
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

****
Peak Number 14 1H-indene-dihydro-dimethyl-... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.78	70.85 ug/L	856639	1,4-dichlorobenzene-d4	15.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	90
2	.alpha.,.beta.,.beta.-Trimethyls...	146	C11H14	000769-57-3	87
3	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	64
4	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	64
5	Benzene, 1-methyl-4-(1-methyl-2-...	146	C11H14	097664-18-1	55





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203937.D
Acq On : 8 May 2015 1:57 pm
Operator : SCOTTM
Sample : JB94209-1,VTCL20+
Misc : MS84864,VI8194,5.0,,,,1
ALS Vial : 50 Sample Multiplier: 1

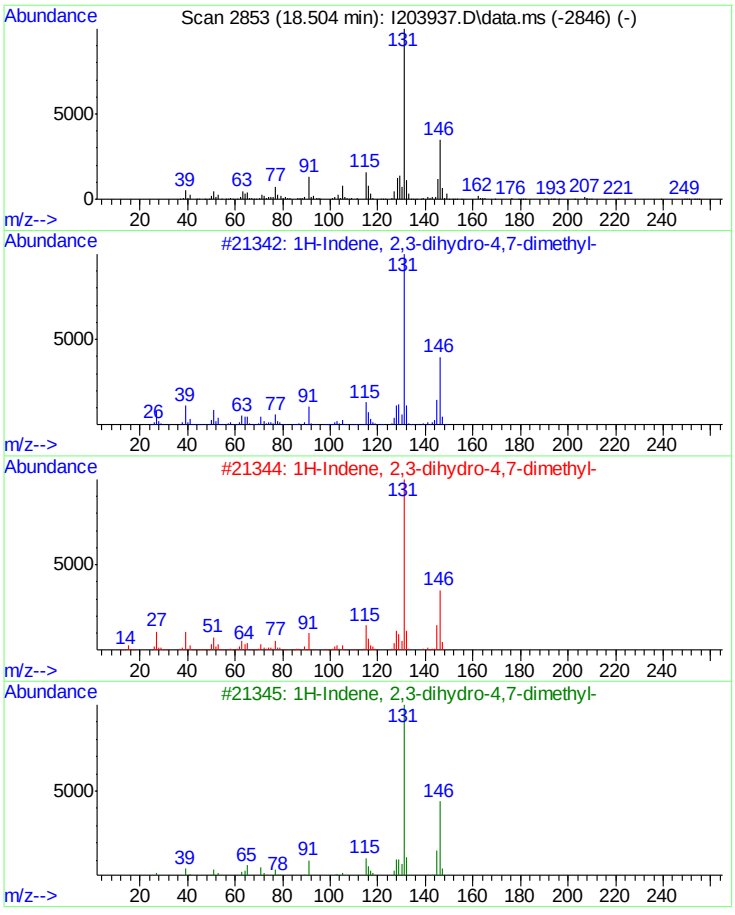
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

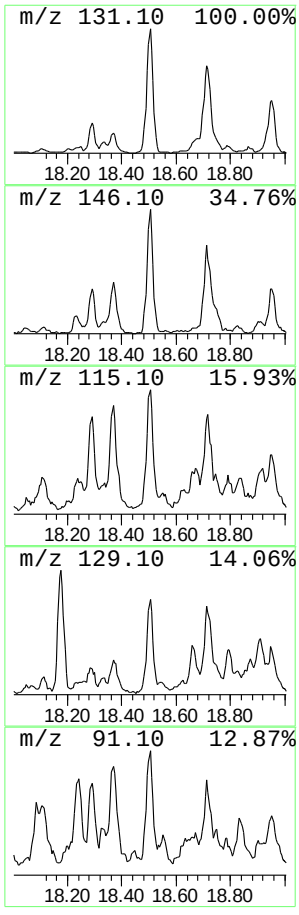
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

****
Peak Number 15 1H-indene-dihydro-dimethyl-... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.50	30.45 ug/L	368124	1,4-dichlorobenzene-d4	15.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	97
2	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	97
3	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	96
4	1H-Indene, 2,3-dihydro-5,6-dimet...	146	C11H14	001075-22-5	94
5	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	94





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203937.D
Acq On : 8 May 2015 1:57 pm
Operator : SCOTTM
Sample : JB94209-1,VTCL20+
Misc : MS84864,VI8194,5.0,,,,1
ALS Vial : 50 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
C3 alkyl benzene	14.97	33.8	ug/L	408871	5	15.84	604513	50.0
C3 alkyl benzene	15.05	30.2	ug/L	364846	5	15.84	604513	50.0
C3 alkyl benzene	15.43	71.2	ug/L	860845	5	15.84	604513	50.0
C3 alkyl benzene	16.05	43.6	ug/L	526842	5	15.84	604513	50.0
C4 alkyl benzene	16.11	89.1	ug/L	1076930	5	15.84	604513	50.0
C4 alkyl benzene	16.40	30.2	ug/L	364672	5	15.84	604513	50.0
C4 alkyl benzene	16.43	31.0	ug/L	374552	5	15.84	604513	50.0
C4 alkyl benzene	16.51	71.3	ug/L	862459	5	15.84	604513	50.0
C4 alkyl benzene	16.92	46.5	ug/L	562735	5	15.84	604513	50.0
C4 alkyl benzene	16.98	76.9	ug/L	929527	5	15.84	604513	50.0
1H-Indene-dihydro...	17.30	38.5	ug/L	466121	5	15.84	604513	50.0
C4 alkyl benzene	17.43	50.5	ug/L	610958	5	15.84	604513	50.0
1H-Indene-dihydro...	17.48	88.4	ug/L	1068580	5	15.84	604513	50.0
1H-indene-dihydro...	17.78	70.8	ug/L	856639	5	15.84	604513	50.0
1H-indene-dihydro...	18.50	30.4	ug/L	368124	5	15.84	604513	50.0

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 05/12/15 03:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203960.D
Acq On : 9 May 2015 4:48 am
Operator : SCOTTM
Sample : JB94209-2
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 33 Sample Multiplier: 1

Quant Time: May 11 12:15:40 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 30 09:04:29 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.186	65	69984	500.00	ug/L	-0.01
5) pentafluorobenzene	9.450	168	180749	50.00	ug/L	0.00
48) 1,4-difluorobenzene	10.366	114	212848	50.00	ug/L	0.00
79) chlorobenzene-d5	13.525	117	167226	50.00	ug/L	0.00
94) 1,4-dichlorobenzene-d4	15.842	152	92705	50.00	ug/L	0.00

System Monitoring Compounds						
45) dibromofluoromethane (s)	9.471	113	89090	46.86	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 93.72%			
49) 1,2-dichloroethane-d4...	9.890	65	90284	47.46	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 94.92%			
80) toluene-d8 (s)	12.024	98	337811	48.36	ug/L	0.00
Spiked Amount 50.000	Range 78 - 129		Recovery = 96.72%			
95) 4-bromofluorobenzene (s)	14.675	95	118385	46.11	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 92.22%			

Target Compounds						Qvalue
18) acetone	6.558	58	1730m	10.98	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

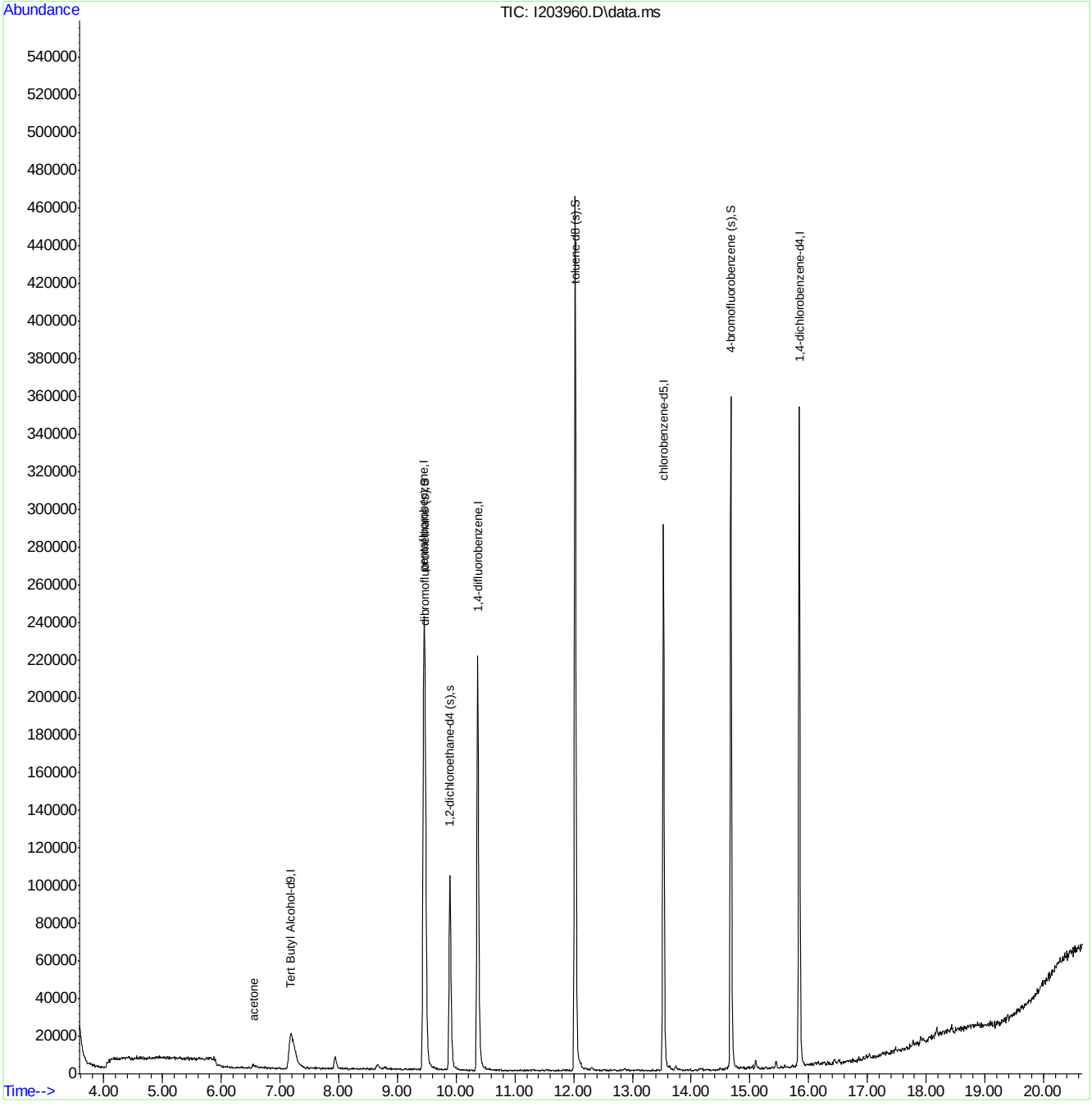
7.1.3

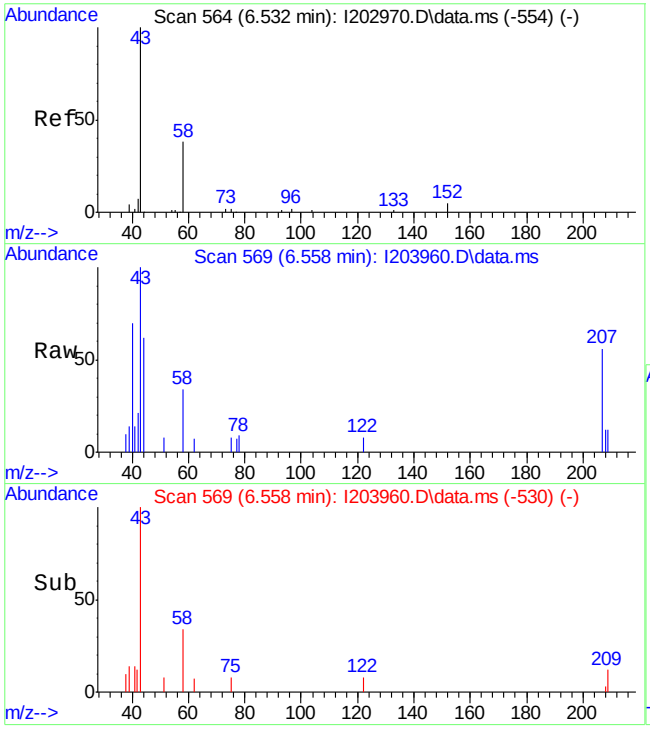
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203960.D
Acq On : 9 May 2015 4:48 am
Operator : SCOTTM
Sample : JB94209-2
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 33 Sample Multiplier: 1

Quant Time: May 11 12:15:40 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 30 09:04:29 2015
Response via : Initial Calibration

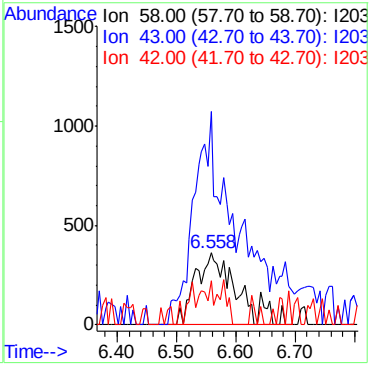




#18
acetone
Concen: 10.98 ug/L m
RT: 6.558 min Scan# 569
Delta R.T. 0.026 min
Lab File: I203960.D
Acq: 9 May 2015 4:48 am

Tgt Ion: 58 Resp: 1730

Ion	Ratio	Lower	Upper
58	100		
43	297.2	272.8	332.8
42	62.0	2.5	62.5



7.1.3

7

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203960.D
Acq On : 9 May 2015 4:48 am
Operator : SCOTTM
Sample : JB94209-2
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 33 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

Signal : TIC: I20396

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.016	80	83	84	rBV2	882	688	0.08%	0.015%
2	4.095	86	98	99	rBV6	4570	10831	1.22%	0.244%
3	5.878	437	439	453	rVB9	4952	10816	1.21%	0.244%
4	6.066	470	475	476	rBV4	722	779	0.09%	0.018%
5	6.548	559	567	575	rBV7	2399	6167	0.69%	0.139%
6	6.595	575	576	583	rVB4	1170	1581	0.18%	0.036%
7	6.725	596	601	603	rBV5	1105	1188	0.13%	0.027%
8	6.746	603	605	609	rVB4	1365	1165	0.13%	0.026%
9	6.793	611	614	618	rBV5	1067	1377	0.15%	0.031%
10	7.065	664	666	671	rVB5	937	1373	0.15%	0.031%
11	7.186	671	689	724	rBV2	19491	139568	15.67%	3.144%
12	7.463	736	742	745	rBV6	1148	1946	0.22%	0.044%
13	7.740	792	795	801	rVB6	1243	1580	0.18%	0.036%
14	7.777	801	802	804	rBV	1217	710	0.08%	0.016%
15	7.887	820	823	824	rBV2	1093	1058	0.12%	0.024%
16	7.939	825	833	847	rVB6	6625	20146	2.26%	0.454%
17	8.059	852	856	860	rVB4	1047	1267	0.14%	0.029%
18	8.221	877	887	890	rBV5	1199	3379	0.38%	0.076%
19	8.247	890	892	894	rBV2	1011	697	0.08%	0.016%
20	8.420	923	925	927	rVB3	1045	759	0.09%	0.017%
21	8.483	935	937	944	rVB5	1312	2026	0.23%	0.046%
22	8.551	948	950	955	rBV3	1076	1373	0.15%	0.031%
23	8.640	958	967	968	rBV6	2458	3765	0.42%	0.085%
24	8.776	991	993	996	rVB3	1041	1187	0.13%	0.027%
25	8.959	1024	1028	1029	rVB2	763	787	0.09%	0.018%
26	9.105	1053	1056	1059	rBV2	548	720	0.08%	0.016%
27	9.205	1070	1075	1076	rBV2	931	1128	0.13%	0.025%
28	9.257	1080	1085	1087	rVV4	687	1083	0.12%	0.024%
29	9.283	1087	1090	1098	rVB5	912	1869	0.21%	0.042%
30	9.450	1108	1122	1150	rBV2	241340	798384	89.65%	17.982%
31	9.628	1154	1156	1162	rVV3	1425	1797	0.20%	0.040%
32	9.670	1162	1164	1166	rVB2	1011	771	0.09%	0.017%
33	9.890	1197	1206	1226	rBV	103433	242102	27.18%	5.453%
34	10.136	1249	1253	1257	rBV4	581	800	0.09%	0.018%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203960.D
Acq On : 9 May 2015 4:48 am
Operator : SCOTTM
Sample : JB94209-2
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 33 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

35	10.224	1265	1270	1272	rVB2	1139	1114	0.13%	0.025%
36	10.261	1272	1277	1281	rBV3	976	1517	0.17%	0.034%
37	10.366	1285	1297	1321	rBV	220488	491563	55.19%	11.072%
38	10.533	1326	1329	1333	rVB3	833	791	0.09%	0.018%
39	10.763	1368	1373	1375	rBV3	835	875	0.10%	0.020%
40	10.826	1382	1385	1388	rBV2	687	893	0.10%	0.020%
41	10.936	1399	1406	1408	rBV3	480	778	0.09%	0.018%
42	11.093	1433	1436	1441	rBV3	771	1128	0.13%	0.025%
43	11.265	1464	1469	1471	rBV2	972	1313	0.15%	0.030%
44	11.474	1506	1509	1515	rVB4	535	858	0.10%	0.019%
45	11.542	1516	1522	1524	rVV	788	702	0.08%	0.016%
46	11.637	1537	1540	1544	rBV2	608	704	0.08%	0.016%
47	11.699	1548	1552	1558	rBV3	702	1024	0.11%	0.023%
48	11.741	1558	1560	1563	rBV3	799	715	0.08%	0.016%
49	11.825	1568	1576	1578	rBV2	927	1716	0.19%	0.039%
50	11.893	1586	1589	1593	rBV5	1099	1399	0.16%	0.032%
51	12.024	1604	1614	1643	rBV	464708	890598	100.00%	20.059%
52	12.259	1655	1659	1662	rVB5	716	852	0.10%	0.019%
53	12.306	1662	1668	1678	rVB7	1930	4598	0.52%	0.104%
54	12.395	1683	1685	1688	rBV3	780	964	0.11%	0.022%
55	12.442	1693	1694	1699	rVB3	843	761	0.09%	0.017%
56	12.500	1702	1705	1708	rBV3	965	996	0.11%	0.022%
57	12.536	1708	1712	1715	rVB3	786	731	0.08%	0.016%
58	12.620	1725	1728	1731	rBV4	874	1034	0.12%	0.023%
59	12.688	1739	1741	1748	rVV3	770	1214	0.14%	0.027%
60	12.793	1757	1761	1764	rBV3	805	1109	0.12%	0.025%
61	12.834	1765	1769	1771	rVV4	902	925	0.10%	0.021%
62	12.871	1771	1776	1782	rVV6	1442	3378	0.38%	0.076%
63	12.923	1785	1786	1789	rVV3	890	759	0.09%	0.017%
64	13.044	1807	1809	1813	rVV4	599	860	0.10%	0.019%
65	13.106	1817	1821	1826	rVV4	1024	1400	0.16%	0.032%
66	13.169	1828	1833	1834	rVB3	987	1081	0.12%	0.024%
67	13.180	1834	1835	1839	rVB2	822	715	0.08%	0.016%
68	13.216	1839	1842	1848	rBV3	679	1482	0.17%	0.033%
69	13.274	1848	1853	1857	rVV2	766	1091	0.12%	0.025%
70	13.352	1865	1868	1871	rVB3	910	1074	0.12%	0.024%
71	13.436	1881	1884	1887	rBV3	885	763	0.09%	0.017%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203960.D
Acq On : 9 May 2015 4:48 am
Operator : SCOTTM
Sample : JB94209-2
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 33 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

72	13.525	1892	1901	1918	rBV	290069	516341	57.98%	11.630%
73	13.739	1934	1942	1947	rBV6	2200	4558	0.51%	0.103%
74	13.917	1973	1976	1979	rVV4	754	815	0.09%	0.018%
75	13.985	1987	1989	1993	rVB3	1479	1360	0.15%	0.031%
76	14.152	2017	2021	2023	rVV4	1310	1589	0.18%	0.036%
77	14.194	2026	2029	2035	rVB5	1210	1738	0.20%	0.039%
78	14.273	2041	2044	2048	rVB3	678	779	0.09%	0.018%
79	14.309	2050	2051	2056	rVB4	888	934	0.10%	0.021%
80	14.382	2057	2065	2068	rBV5	950	1337	0.15%	0.030%
81	14.492	2083	2086	2092	rBV6	1423	2110	0.24%	0.048%
82	14.586	2101	2104	2110	rBV3	1055	1812	0.20%	0.041%
83	14.675	2110	2121	2137	rBV	357047	590011	66.25%	13.289%
84	14.843	2150	2153	2156	rBV5	1253	1394	0.16%	0.031%
85	14.968	2173	2177	2181	rVB6	1674	2400	0.27%	0.054%
86	15.000	2181	2183	2187	rBV2	1430	1753	0.20%	0.039%
87	15.052	2189	2193	2197	rVV4	2219	2687	0.30%	0.061%
88	15.099	2197	2202	2209	rVV6	4778	8536	0.96%	0.192%
89	15.209	2219	2223	2226	rBV3	1324	1582	0.18%	0.036%
90	15.277	2231	2236	2241	rVV7	1641	2746	0.31%	0.062%
91	15.366	2248	2253	2256	rBV4	1087	1801	0.20%	0.041%
92	15.449	2263	2269	2279	rVB6	3789	6500	0.73%	0.146%
93	15.533	2283	2285	2288	rVB4	1129	788	0.09%	0.018%
94	15.596	2293	2297	2307	rBV10	1771	4424	0.50%	0.100%
95	15.732	2319	2323	2327	rBV5	1655	2253	0.25%	0.051%
96	15.784	2331	2333	2335	rBV3	1734	1505	0.17%	0.034%
97	15.842	2335	2344	2361	rVB	350580	580112	65.14%	13.066%
98	16.114	2391	2396	2400	rBV7	1646	2784	0.31%	0.063%
99	16.323	2434	2436	2439	rBV4	1994	1053	0.12%	0.024%
100	16.448	2455	2460	2466	rVB8	2736	5749	0.65%	0.129%

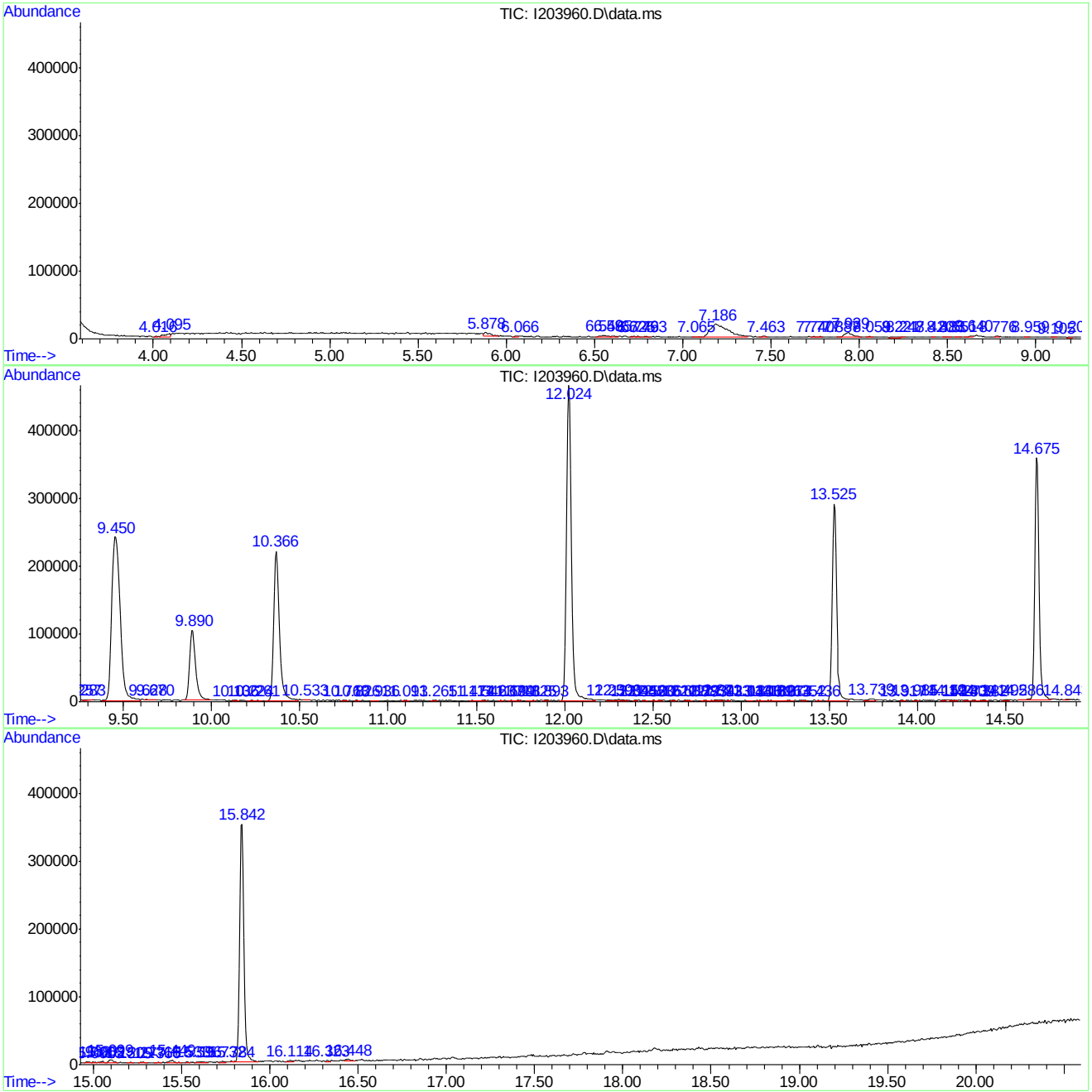
Sum of corrected areas: 4439793

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203960.D
Acq On : 9 May 2015 4:48 am
Operator : SCOTTM
Sample : JB94209-2
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P



Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203960.D
Acq On : 9 May 2015 4:48 am
Operator : SCOTTM
Sample : JB94209-2
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203961.D
Acq On : 9 May 2015 5:17 am
Operator : SCOTTM
Sample : JB94209-3
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 34 Sample Multiplier: 1

Quant Time: May 11 12:31:25 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 30 09:04:29 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.175	65	54446	500.00 ug/L	-0.02
5) pentafluorobenzene	9.445	168	155250	50.00 ug/L	0.00
48) 1,4-difluorobenzene	10.366	114	187774	50.00 ug/L	0.00
79) chlorobenzene-d5	13.525	117	164248	50.00 ug/L	0.00
94) 1,4-dichlorobenzene-d4	15.842	152	76763	50.00 ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.471	113	80719	49.44 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.88%		
49) 1,2-dichloroethane-d4...	9.895	65	80354	47.88 ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 95.76%		
80) toluene-d8 (s)	12.023	98	320303	46.68 ug/L	0.00
Spiked Amount 50.000	Range 78 - 129		Recovery = 93.36%		
95) 4-bromofluorobenzene (s)	14.675	95	111614	52.51 ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 105.02%		

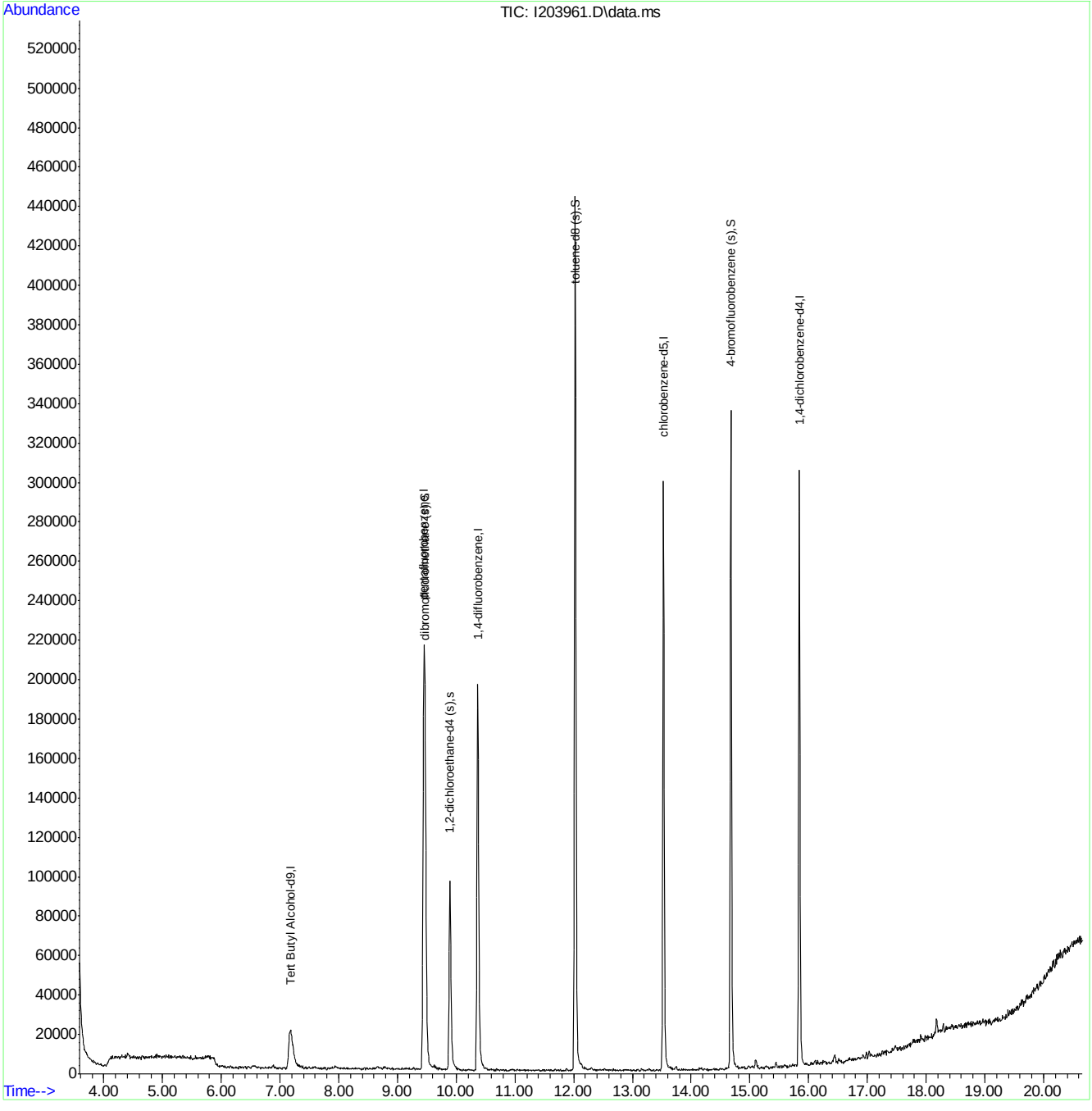
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203961.D
Acq On : 9 May 2015 5:17 am
Operator : SCOTTM
Sample : JB94209-3
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 34 Sample Multiplier: 1

Quant Time: May 11 12:31:25 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 30 09:04:29 2015
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203961.D
Acq On : 9 May 2015 5:17 am
Operator : SCOTTM
Sample : JB94209-3
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 34 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

Signal : TIC: I20396

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.126	92	104	106	rBV8	3682	10608	1.27%	0.263%
2	6.411	536	541	544	rVB6	1084	1690	0.20%	0.042%
3	6.448	544	548	558	rBV6	1055	2961	0.35%	0.074%
4	6.547	558	567	568	rBV5	1662	3587	0.43%	0.089%
5	6.683	591	593	600	rVB4	748	1303	0.16%	0.032%
6	6.746	601	605	610	rVV5	907	1262	0.15%	0.031%
7	6.804	615	616	621	rBV4	963	1075	0.13%	0.027%
8	6.872	627	629	631	rBV3	950	903	0.11%	0.022%
9	7.044	660	662	664	rBV2	628	710	0.08%	0.018%
10	7.180	672	688	712	rBV3	20055	107364	12.82%	2.665%
11	7.426	732	735	736	rBV2	673	724	0.09%	0.018%
12	7.494	744	748	752	rVB3	903	1239	0.15%	0.031%
13	7.562	760	761	765	rBV3	932	1005	0.12%	0.025%
14	7.661	777	780	783	rVB4	890	813	0.10%	0.020%
15	7.693	783	786	791	rVB4	900	850	0.10%	0.021%
16	7.735	792	794	796	rBV2	979	822	0.10%	0.020%
17	7.782	796	803	806	rVB6	1297	2994	0.36%	0.074%
18	7.813	806	809	814	rBV5	1247	2235	0.27%	0.055%
19	7.933	828	832	841	rVB6	1511	2838	0.34%	0.070%
20	8.038	850	852	859	rVB4	728	1139	0.14%	0.028%
21	8.137	867	871	873	rBV2	1192	1162	0.14%	0.029%
22	8.388	918	919	923	rBV4	783	743	0.09%	0.018%
23	8.430	925	927	931	rVB2	1226	1333	0.16%	0.033%
24	8.535	940	947	949	rBV5	655	1098	0.13%	0.027%
25	8.781	992	994	997	rBV4	940	750	0.09%	0.019%
26	8.833	1003	1004	1008	rBV2	891	843	0.10%	0.021%
27	8.912	1017	1019	1022	rVB2	1228	1026	0.12%	0.025%
28	8.938	1022	1024	1029	rBV3	646	1120	0.13%	0.028%
29	8.979	1029	1032	1034	rVV	782	778	0.09%	0.019%
30	9.021	1038	1040	1047	rVB4	797	869	0.10%	0.022%
31	9.079	1049	1051	1056	rBV3	821	766	0.09%	0.019%
32	9.278	1086	1089	1094	rVB4	1093	1480	0.18%	0.037%
33	9.309	1094	1095	1099	rBV2	790	730	0.09%	0.018%
34	9.450	1111	1122	1151	rBV2	215691	704157	84.09%	17.481%

MI8156.M Mon May 11 12:31:40 2015 RPT1 Page: 1

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203961.D
Acq On : 9 May 2015 5:17 am
Operator : SCOTTM
Sample : JB94209-3
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 34 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

35	9.712	1168	1172	1173	rBV4	1335	1585	0.19%	0.039%
36	9.890	1197	1206	1229	rVV	95695	218964	26.15%	5.436%
37	10.073	1239	1241	1246	rVB3	833	1122	0.13%	0.028%
38	10.188	1258	1263	1264	rBV2	858	952	0.11%	0.024%
39	10.366	1284	1297	1319	rBV2	196355	437882	52.29%	10.871%
40	10.496	1319	1322	1330	rVV4	1441	3048	0.36%	0.076%
41	10.596	1338	1341	1346	rVV4	846	935	0.11%	0.023%
42	10.690	1355	1359	1369	rBV6	1162	2668	0.32%	0.066%
43	10.747	1369	1370	1374	rBV3	823	810	0.10%	0.020%
44	10.800	1377	1380	1384	rVB3	681	936	0.11%	0.023%
45	11.035	1422	1425	1428	rBV3	999	1202	0.14%	0.030%
46	11.532	1519	1520	1527	rBV3	706	1021	0.12%	0.025%
47	11.621	1532	1537	1538	rVB2	705	837	0.10%	0.021%
48	11.657	1541	1544	1546	rVB2	757	810	0.10%	0.020%
49	11.684	1546	1549	1553	rBV3	1041	1673	0.20%	0.042%
50	11.741	1555	1560	1563	rVB3	721	1153	0.14%	0.029%
51	11.778	1563	1567	1572	rBV3	886	1117	0.13%	0.028%
52	11.887	1584	1588	1591	rBV2	1069	1160	0.14%	0.029%
53	12.023	1605	1614	1640	rBV	443529	837344	100.00%	20.788%
54	12.269	1655	1661	1664	rBV4	775	1338	0.16%	0.033%
55	12.295	1664	1666	1672	rVB5	1379	2376	0.28%	0.059%
56	12.442	1692	1694	1698	rVV2	727	831	0.10%	0.021%
57	12.672	1735	1738	1740	rBV2	1018	1012	0.12%	0.025%
58	12.787	1755	1760	1764	rBV4	1000	972	0.12%	0.024%
59	12.834	1764	1769	1772	rVB4	674	1052	0.13%	0.026%
60	12.855	1772	1773	1776	rBV2	964	763	0.09%	0.019%
61	12.876	1776	1777	1781	rVV3	1018	783	0.09%	0.019%
62	12.928	1781	1787	1790	rVV5	1004	1284	0.15%	0.032%
63	12.970	1790	1795	1796	rVB	718	735	0.09%	0.018%
64	13.022	1800	1805	1809	rVB3	872	1399	0.17%	0.035%
65	13.090	1817	1818	1825	rVV4	800	871	0.10%	0.022%
66	13.153	1827	1830	1838	rVB4	1651	3149	0.38%	0.078%
67	13.200	1838	1839	1844	rBV3	715	1009	0.12%	0.025%
68	13.284	1851	1855	1861	rVB4	1598	2497	0.30%	0.062%
69	13.336	1861	1865	1866	rBV3	657	824	0.10%	0.020%
70	13.410	1873	1879	1880	rBV3	856	1056	0.13%	0.026%
71	13.457	1886	1888	1892	rVB2	849	861	0.10%	0.021%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203961.D
Acq On : 9 May 2015 5:17 am
Operator : SCOTTM
Sample : JB94209-3
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 34 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

72	13.525	1892	1901	1920	rBV	299142	511495	61.09%	12.698%
73	13.744	1937	1943	1949	rVB4	1871	3050	0.36%	0.076%
74	13.797	1949	1953	1959	rVB4	798	1274	0.15%	0.032%
75	14.095	2009	2010	2014	rBV2	811	787	0.09%	0.020%
76	14.137	2014	2018	2020	rBV3	1157	1100	0.13%	0.027%
77	14.225	2031	2035	2041	rBV4	1057	1840	0.22%	0.046%
78	14.299	2046	2049	2052	rBV3	952	1298	0.16%	0.032%
79	14.497	2082	2087	2092	rBV4	782	1307	0.16%	0.032%
80	14.586	2100	2104	2106	rBV4	988	935	0.11%	0.023%
81	14.675	2114	2121	2142	rBV	333317	541872	64.71%	13.453%
82	14.827	2147	2150	2152	rBV3	1003	906	0.11%	0.022%
83	14.869	2152	2158	2159	rVB3	931	1039	0.12%	0.026%
84	14.979	2174	2179	2184	rVB3	1230	2370	0.28%	0.059%
85	15.104	2196	2203	2214	rVB3	4713	11465	1.37%	0.285%
86	15.277	2229	2236	2246	rBV8	1725	5143	0.61%	0.128%
87	15.360	2249	2252	2255	rVB4	870	846	0.10%	0.021%
88	15.444	2263	2268	2275	rVB9	3110	5364	0.64%	0.133%
89	15.523	2281	2283	2287	rVB4	1122	1451	0.17%	0.036%
90	15.591	2293	2296	2304	rVB7	1842	3766	0.45%	0.093%
91	15.679	2309	2313	2316	rBV2	1108	1379	0.16%	0.034%
92	15.842	2336	2344	2360	rBV	302755	484916	57.91%	12.039%
93	16.040	2380	2382	2386	rBV4	1573	1828	0.22%	0.045%
94	16.114	2392	2396	2399	rVB6	2349	3316	0.40%	0.082%
95	16.244	2419	2421	2424	rBV4	2550	2351	0.28%	0.058%
96	16.412	2447	2453	2454	rBV5	1913	3314	0.40%	0.082%
97	16.443	2454	2459	2468	rVV5	4942	11504	1.37%	0.286%
98	16.511	2468	2472	2487	rVB10	3114	8376	1.00%	0.208%
99	17.034	2570	2572	2575	rVB4	2641	2686	0.32%	0.067%
100	18.174	2788	2790	2808	rVB4	6259	10045	1.20%	0.249%

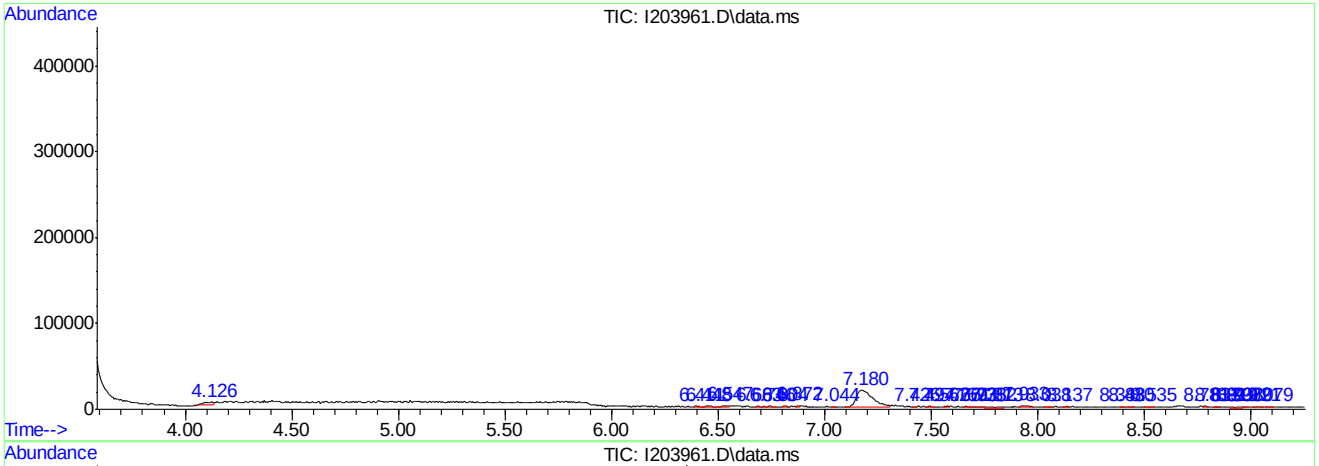
Sum of corrected areas: 4028031

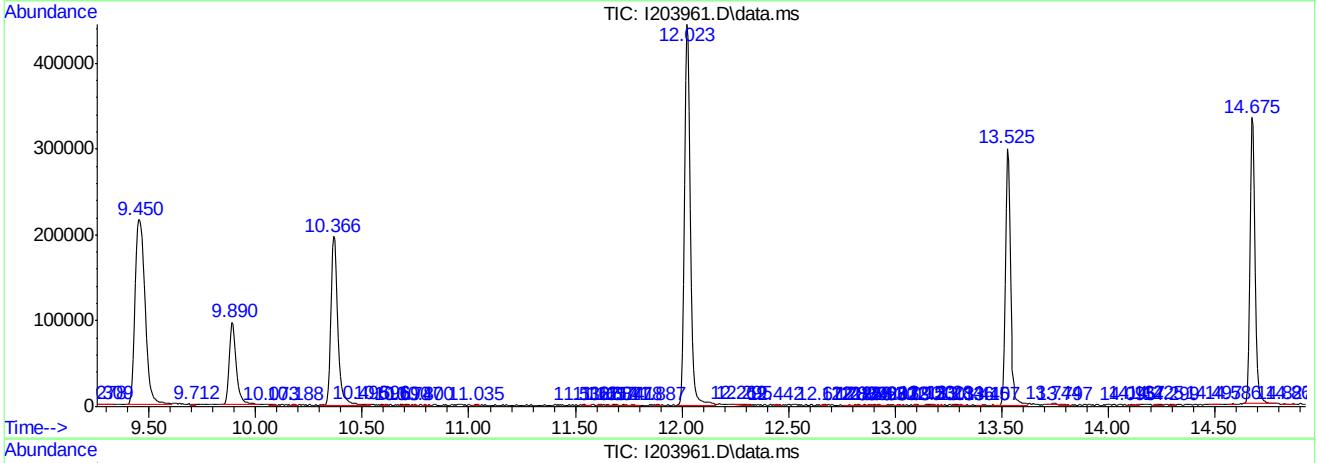
LSC Report - Integrated Chromatogram

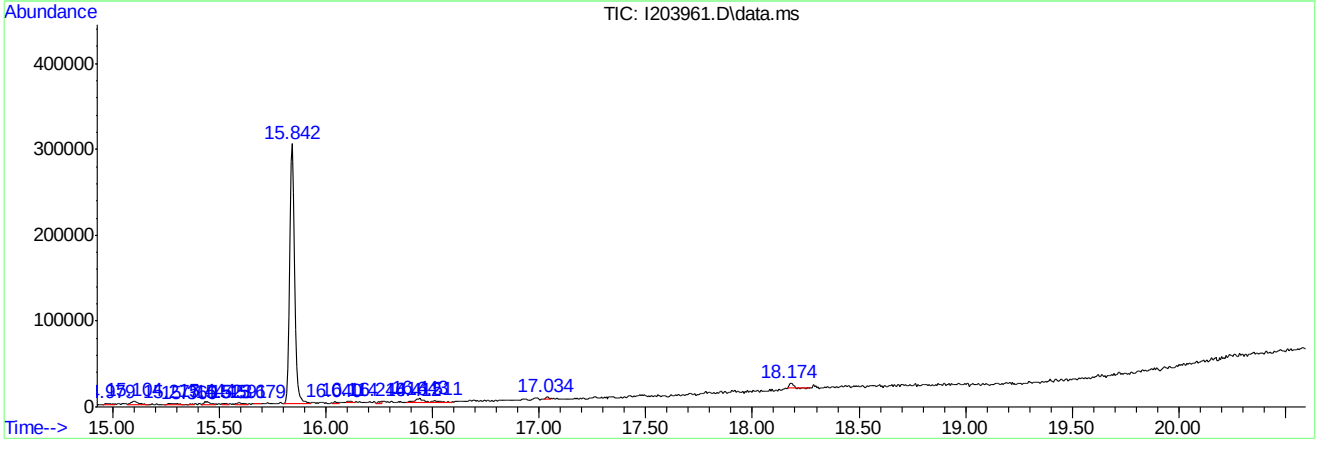
Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203961.D
Acq On : 9 May 2015 5:17 am
Operator : SCOTTM
Sample : JB94209-3
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 34 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P







Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203961.D
Acq On : 9 May 2015 5:17 am
Operator : SCOTTM
Sample : JB94209-3
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 34 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203962.D
Acq On : 9 May 2015 5:45 am
Operator : SCOTTM
Sample : JB94209-4
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 35 Sample Multiplier: 1

Quant Time: May 11 12:29:46 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 30 09:04:29 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.186	65	47198	500.00	ug/L	-0.01
5) pentafluorobenzene	9.445	168	163813	50.00	ug/L	0.00
48) 1,4-difluorobenzene	10.366	114	192226	50.00	ug/L	0.00
79) chlorobenzene-d5	13.525	117	161622	50.00	ug/L	0.00
94) 1,4-dichlorobenzene-d4	15.842	152	82814	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.471	113	81272	47.17	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.34%			
49) 1,2-dichloroethane-d4...	9.890	65	81897	47.67	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 95.34%			
80) toluene-d8 (s)	12.024	98	315003	46.66	ug/L	0.00
Spiked Amount 50.000	Range 78 - 129		Recovery = 93.32%			
95) 4-bromofluorobenzene (s)	14.675	95	110500	48.18	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 96.36%			

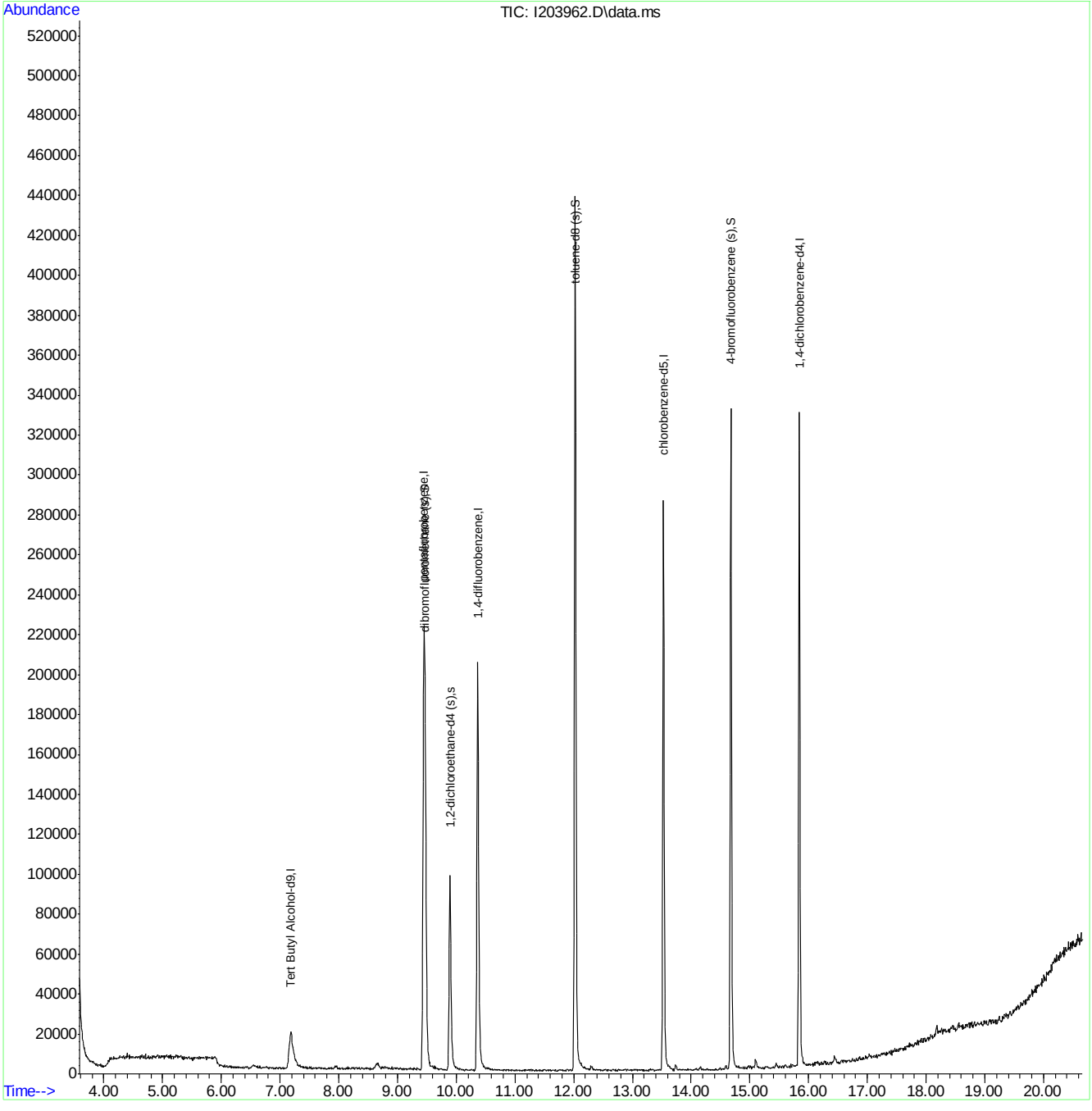
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203962.D
Acq On : 9 May 2015 5:45 am
Operator : SCOTTM
Sample : JB94209-4
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 35 Sample Multiplier: 1

Quant Time: May 11 12:29:46 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 30 09:04:29 2015
Response via : Initial Calibration



MI8156.M Mon May 11 12:29:55 2015 RPT1 Page: 2

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203962.D
Acq On : 9 May 2015 5:45 am
Operator : SCOTTM
Sample : JB94209-4
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 35 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

Signal : TIC: I20396

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.969	71	74	75	rVB	934	722	0.09%	0.018%
2	4.079	86	95	96	rBV4	3017	5263	0.64%	0.130%
3	6.056	471	473	478	rVB5	1365	1386	0.17%	0.034%
4	6.281	513	516	518	rBV3	918	1067	0.13%	0.026%
5	6.406	537	540	543	rBV3	935	1108	0.13%	0.027%
6	6.433	543	545	552	rVB5	1219	2117	0.26%	0.052%
7	6.542	558	566	579	rBV4	1819	7555	0.91%	0.187%
8	6.647	583	586	587	rVB3	805	598	0.07%	0.015%
9	6.929	639	640	643	rBV2	967	794	0.10%	0.020%
10	6.992	649	652	659	rVB4	551	818	0.10%	0.020%
11	7.186	673	689	715	rBV4	18374	94245	11.38%	2.334%
12	7.452	738	740	743	rVB2	1014	725	0.09%	0.018%
13	7.505	748	750	753	rVB3	925	845	0.10%	0.021%
14	7.876	815	821	822	rBV4	1054	1647	0.20%	0.041%
15	7.934	828	832	833	rBV3	1276	1528	0.18%	0.038%
16	8.132	867	870	872	rVV2	799	586	0.07%	0.015%
17	8.153	872	874	875	rVV2	1168	611	0.07%	0.015%
18	8.216	883	886	891	rBV6	734	1228	0.15%	0.030%
19	8.279	897	898	900	rBV	1102	699	0.08%	0.017%
20	8.383	915	918	921	rBV2	952	833	0.10%	0.021%
21	8.650	955	969	972	rBV7	3418	8644	1.04%	0.214%
22	8.744	986	987	992	rBV3	832	783	0.09%	0.019%
23	8.781	992	994	998	rVV4	1024	874	0.11%	0.022%
24	8.849	1005	1007	1014	rBV6	715	1063	0.13%	0.026%
25	8.901	1016	1017	1020	rBV3	1412	937	0.11%	0.023%
26	8.969	1022	1030	1031	rVB6	993	1914	0.23%	0.047%
27	8.990	1033	1034	1039	rVB3	875	1006	0.12%	0.025%
28	9.048	1040	1045	1047	rBV4	740	701	0.08%	0.017%
29	9.105	1052	1056	1057	rVB3	796	893	0.11%	0.022%
30	9.220	1076	1078	1081	rVB4	886	665	0.08%	0.016%
31	9.267	1082	1087	1088	rVB2	731	763	0.09%	0.019%
32	9.278	1088	1089	1092	rBV2	979	700	0.08%	0.017%
33	9.330	1098	1099	1109	rBV4	977	1622	0.20%	0.040%
34	9.450	1110	1122	1152	rVV2	222480	731035	88.27%	18.108%

MI8156.M Mon May 11 12:29:23 2015 RPT1

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203962.D
Acq On : 9 May 2015 5:45 am
Operator : SCOTTM
Sample : JB94209-4
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 35 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

35	9.633	1154	1157	1159	rVB2	1566	1303	0.16%	0.032%
36	9.895	1197	1207	1231	rBV	97514	224191	27.07%	5.553%
37	10.156	1253	1257	1263	rBV3	1026	1594	0.19%	0.039%
38	10.366	1285	1297	1316	rBV	204511	447411	54.02%	11.083%
39	10.721	1360	1365	1367	rBV3	751	1059	0.13%	0.026%
40	10.805	1380	1381	1387	rBV2	814	1100	0.13%	0.027%
41	10.852	1389	1390	1396	rBV4	851	1017	0.12%	0.025%
42	10.946	1406	1408	1415	rVB2	773	1141	0.14%	0.028%
43	11.145	1442	1446	1449	rBV2	624	918	0.11%	0.023%
44	11.276	1467	1471	1473	rVB3	747	791	0.10%	0.020%
45	11.302	1473	1476	1482	rVB3	836	1310	0.16%	0.032%
46	11.359	1482	1487	1489	rBV	1088	949	0.11%	0.024%
47	11.569	1524	1527	1528	rVB2	1126	740	0.09%	0.018%
48	11.689	1549	1550	1554	rBV2	1036	737	0.09%	0.018%
49	11.731	1555	1558	1561	rVV	696	772	0.09%	0.019%
50	11.767	1561	1565	1567	rVV2	735	822	0.10%	0.020%
51	11.830	1574	1577	1579	rBV	664	664	0.08%	0.016%
52	11.903	1583	1591	1594	rBV6	1103	1898	0.23%	0.047%
53	11.950	1594	1600	1603	rBV6	622	852	0.10%	0.021%
54	12.024	1603	1614	1642	rBV	438091	828215	100.00%	20.515%
55	12.175	1642	1643	1648	rVB4	1129	1245	0.15%	0.031%
56	12.290	1662	1665	1673	rVB3	2191	4107	0.50%	0.102%
57	12.390	1681	1684	1688	rVB2	430	593	0.07%	0.015%
58	12.515	1706	1708	1710	rVV	846	582	0.07%	0.014%
59	12.541	1710	1713	1717	rVB3	1035	1273	0.15%	0.032%
60	12.589	1721	1722	1728	rBV3	825	1025	0.12%	0.025%
61	12.761	1752	1755	1758	rBV3	669	694	0.08%	0.017%
62	12.913	1782	1784	1787	rBV2	734	810	0.10%	0.020%
63	12.970	1793	1795	1798	rVB3	666	663	0.08%	0.016%
64	13.028	1804	1806	1809	rVV3	698	654	0.08%	0.016%
65	13.049	1809	1810	1814	rVV2	629	683	0.08%	0.017%
66	13.153	1828	1830	1834	rVB3	901	1152	0.14%	0.029%
67	13.404	1876	1878	1882	rBV4	457	595	0.07%	0.015%
68	13.525	1891	1901	1918	rBV	285823	494888	59.75%	12.259%
69	13.703	1933	1935	1936	rVB	1251	772	0.09%	0.019%
70	13.734	1936	1941	1949	rBV5	3284	7408	0.89%	0.184%
71	13.901	1969	1973	1975	rVB3	812	861	0.10%	0.021%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203962.D
Acq On : 9 May 2015 5:45 am
Operator : SCOTTM
Sample : JB94209-4
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 35 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

72	13.943	1975	1981	1983	rBV4	965	1032	0.12%	0.026%
73	13.969	1983	1986	1997	rVB3	746	1445	0.17%	0.036%
74	14.158	2015	2022	2026	rBV3	2139	3838	0.46%	0.095%
75	14.273	2040	2044	2046	rBV4	819	863	0.10%	0.021%
76	14.393	2064	2067	2070	rBV2	723	776	0.09%	0.019%
77	14.419	2070	2072	2077	rVB2	730	811	0.10%	0.020%
78	14.471	2079	2082	2084	rBV2	577	773	0.09%	0.019%
79	14.492	2084	2086	2092	rVB3	980	1064	0.13%	0.026%
80	14.597	2101	2106	2110	rBV6	1734	2800	0.34%	0.069%
81	14.675	2110	2121	2139	rBV	330787	548136	66.18%	13.578%
82	14.911	2165	2166	2174	rVB5	1387	1831	0.22%	0.045%
83	14.979	2174	2179	2183	rBV6	1763	3308	0.40%	0.082%
84	15.005	2183	2184	2188	rVB4	1460	1481	0.18%	0.037%
85	15.094	2197	2201	2210	rVV6	4167	6173	0.75%	0.153%
86	15.240	2228	2229	2231	rBV2	1199	812	0.10%	0.020%
87	15.277	2232	2236	2251	rVV8	1494	4991	0.60%	0.124%
88	15.397	2255	2259	2261	rVV3	1028	1336	0.16%	0.033%
89	15.444	2264	2268	2277	rVB8	2587	5354	0.65%	0.133%
90	15.507	2277	2280	2284	rBV3	1290	1513	0.18%	0.037%
91	15.612	2293	2300	2304	rBV8	1854	3915	0.47%	0.097%
92	15.674	2309	2312	2314	rVB2	1185	1013	0.12%	0.025%
93	15.695	2314	2316	2319	rBV2	1961	1510	0.18%	0.037%
94	15.721	2319	2321	2327	rBV6	1127	1801	0.22%	0.045%
95	15.842	2337	2344	2357	rBV	327524	513648	62.02%	12.723%
96	16.135	2396	2400	2402	rBV4	1298	1512	0.18%	0.037%
97	16.208	2412	2414	2418	rBV4	1403	1320	0.16%	0.033%
98	16.323	2433	2436	2440	rBV5	1420	1557	0.19%	0.039%
99	16.438	2455	2458	2471	rVB10	4081	8820	1.06%	0.218%
100	16.815	2526	2530	2531	rBV3	1822	2158	0.26%	0.053%

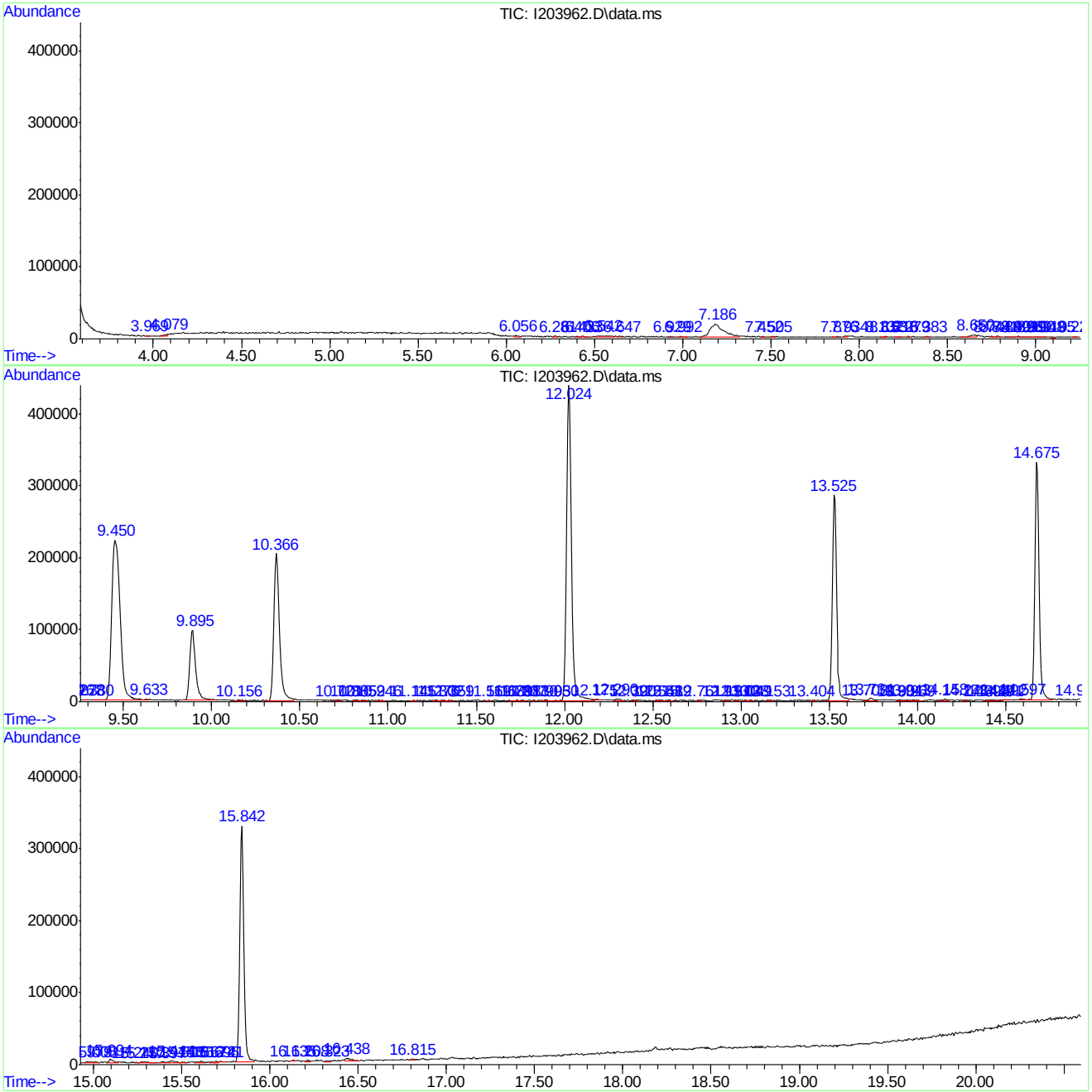
Sum of corrected areas: 4037055

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203962.D
Acq On : 9 May 2015 5:45 am
Operator : SCOTTM
Sample : JB94209-4
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 35 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P



Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203962.D
Acq On : 9 May 2015 5:45 am
Operator : SCOTTM
Sample : JB94209-4
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 35 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc

No Library Search Compounds Detected
****

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 05/12/15 03:47

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203963.D
Acq On : 9 May 2015 6:13 am
Operator : SCOTTM
Sample : JB94209-5
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Time: May 11 12:23:02 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 30 09:04:29 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.170	65	56656	500.00	ug/L	-0.03
5) pentafluorobenzene	9.445	168	158903	50.00	ug/L	0.00
48) 1,4-difluorobenzene	10.366	114	192144	50.00	ug/L	0.00
79) chlorobenzene-d5	13.525	117	172545	50.00	ug/L	0.00
94) 1,4-dichlorobenzene-d4	15.842	152	84966	50.00	ug/L	0.00

System Monitoring Compounds						
45) dibromofluoromethane (s)	9.471	113	83539	49.99	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.98%			
49) 1,2-dichloroethane-d4...	9.895	65	85782	49.95	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 99.90%			
80) toluene-d8 (s)	12.024	98	326412	45.29	ug/L	0.00
Spiked Amount 50.000	Range 78 - 129		Recovery = 90.58%			
95) 4-bromofluorobenzene (s)	14.675	95	118085	50.19	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 100.38%			

Target Compounds						Qvalue
18) acetone	6.521	58	14953	108.00	ug/L	92
20) carbon disulfide	6.882	76	11388	1.45	ug/L	78
35) 2-butanone	8.906	72	2014m	14.78	ug/L	
91) o-xylene	14.158	106	799	0.24	ug/L #	52

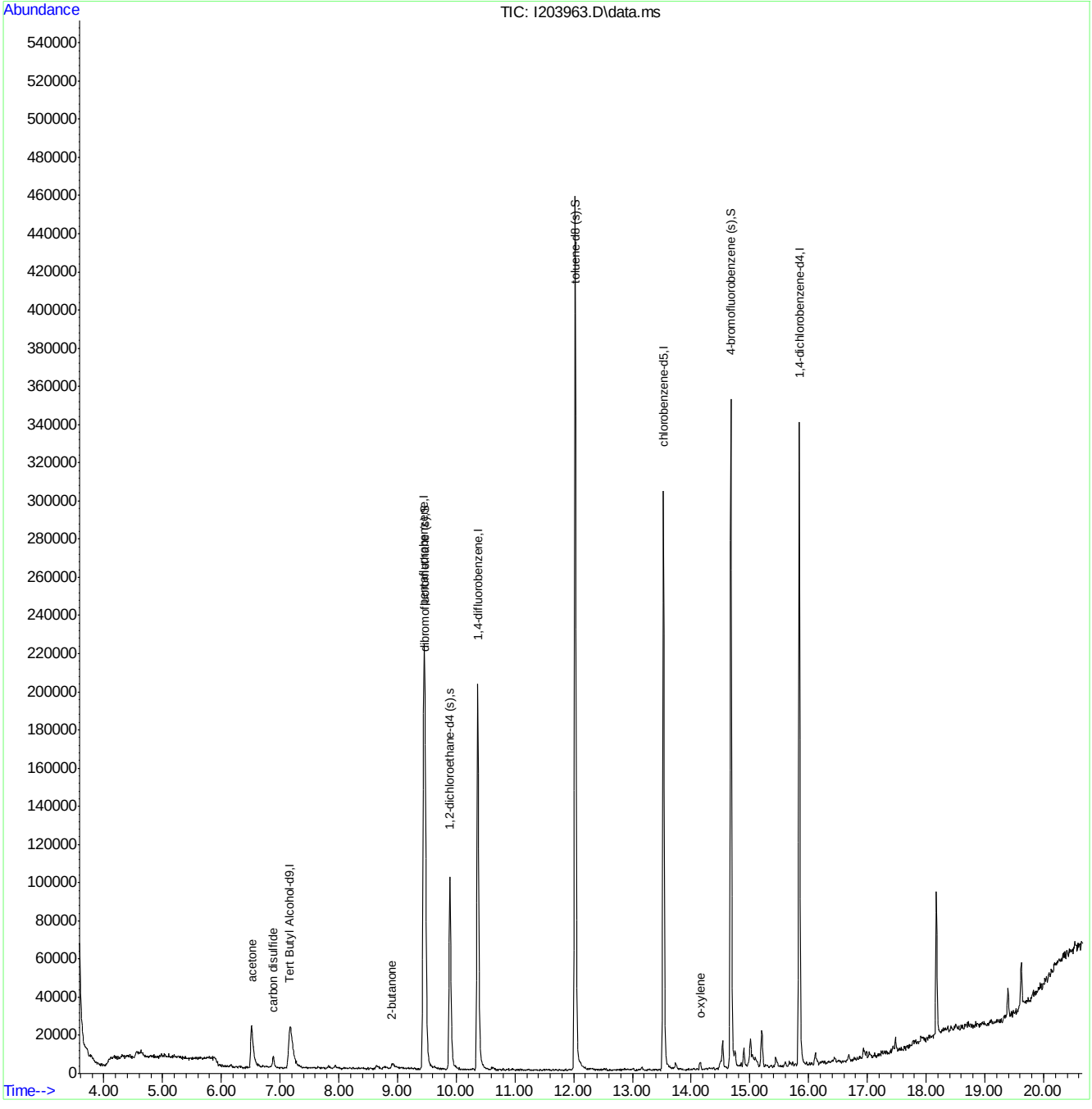
(#) = qualifier out of range (m) = manual integration (+) = signals summed

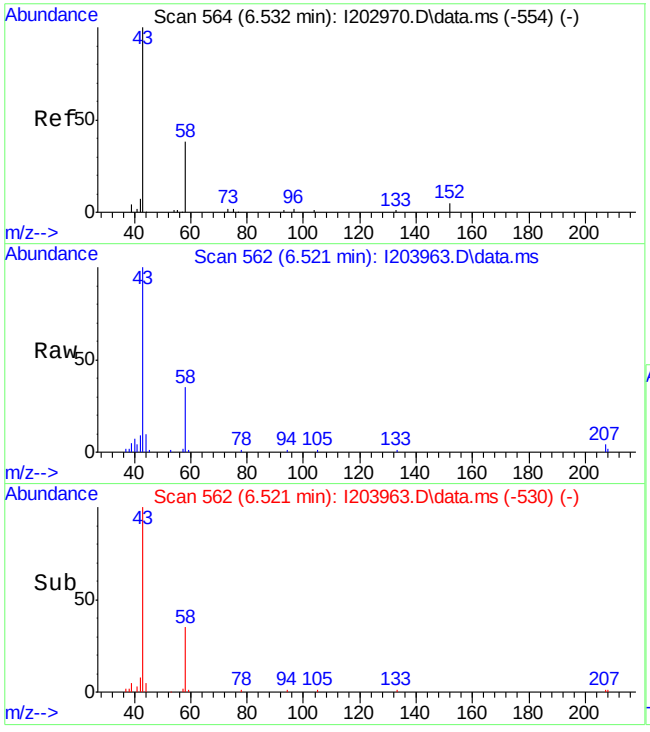
7.1.9
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203963.D
Acq On : 9 May 2015 6:13 am
Operator : SCOTTM
Sample : JB94209-5
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Time: May 11 12:23:02 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 30 09:04:29 2015
Response via : Initial Calibration

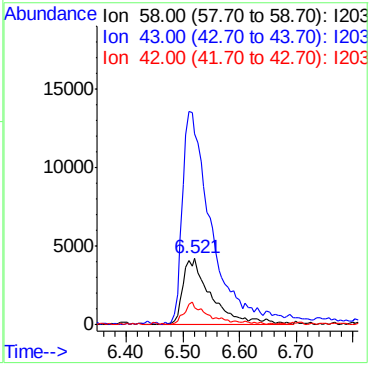


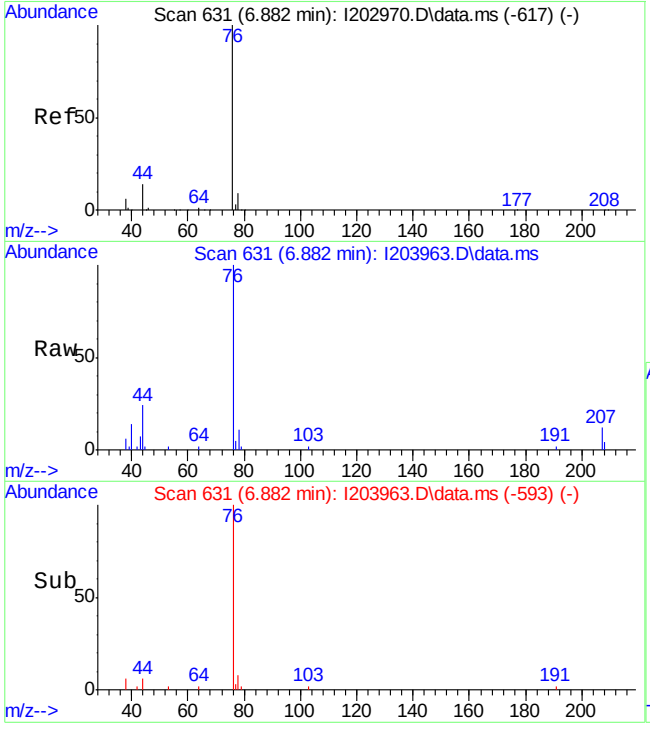


#18
acetone
Concen: 108.00 ug/L
RT: 6.521 min Scan# 562
Delta R.T. -0.010 min
Lab File: I203963.D
Acq: 9 May 2015 6:13 am

Tgt Ion: 58 Resp: 14953

Ion	Ratio	Lower	Upper
58	100		
43	287.5	272.8	332.8
42	26.6	2.5	62.5

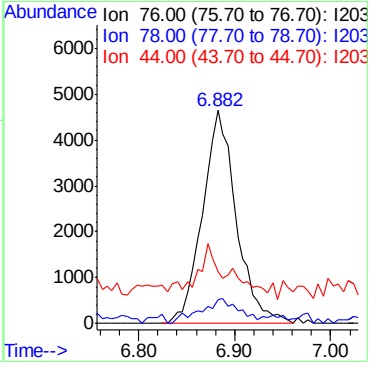




#20
carbon disulfide
Concen: 1.45 ug/L
RT: 6.882 min Scan# 631
Delta R.T. 0.000 min
Lab File: I203963.D
Acq: 9 May 2015 6:13 am

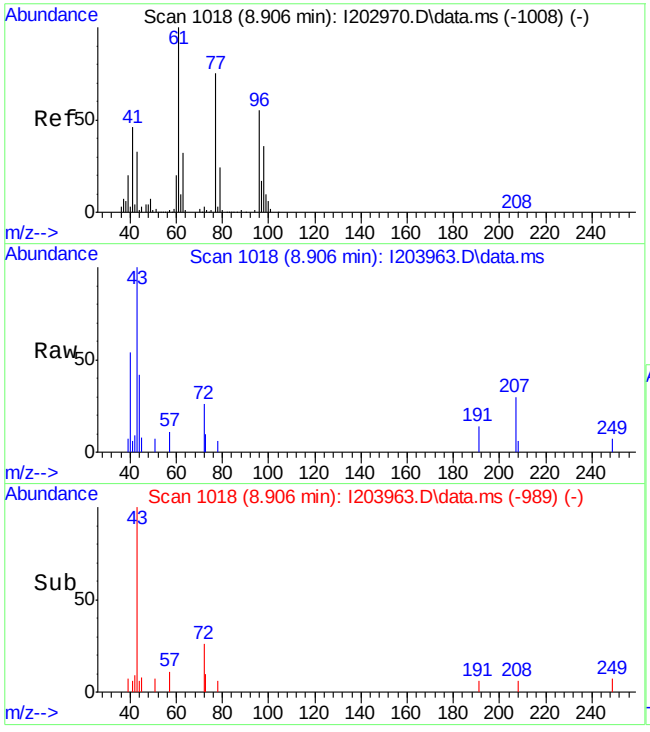
Tgt Ion: 76 Resp: 11388

Ion	Ratio	Lower	Upper
76	100		
78	16.1	0.0	29.3
44	24.4	0.0	34.6



7.1.9

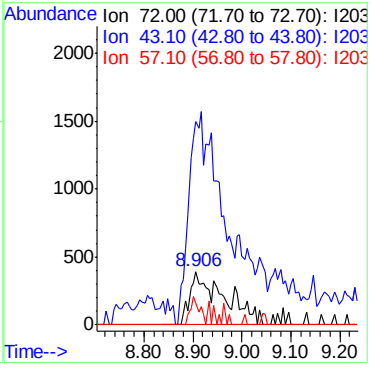
7

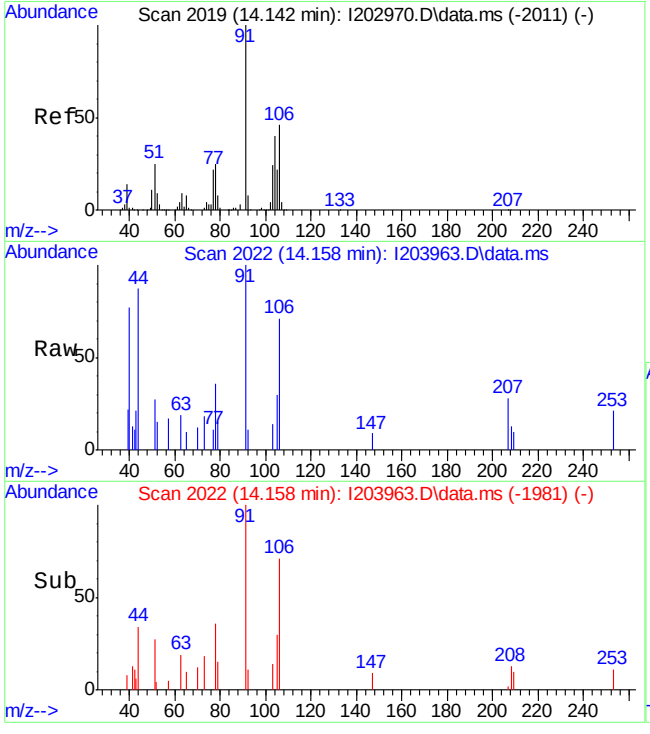


#35
2-butanone
Concen: 14.78 ug/L m
RT: 8.906 min Scan# 1018
Delta R.T. 0.000 min
Lab File: I203963.D
Acq: 9 May 2015 6:13 am

Tgt Ion: 72 Resp: 2014

Ion	Ratio	Lower	Upper
72	100		
43	499.3	927.1	1721.7#
57	0.0	20.0	37.2#

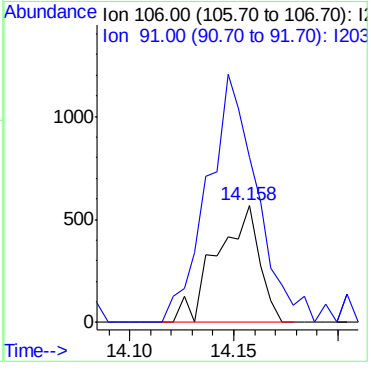




#91
o-xylene
Concen: 0.24 ug/L
RT: 14.158 min Scan# 2022
Delta R.T. 0.016 min
Lab File: I203963.D
Acq: 9 May 2015 6:13 am

Tgt Ion:106 Resp: 799

Ion	Ratio	Lower	Upper
106	100		
91	141.2	152.7	283.7#



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203963.D
Acq On : 9 May 2015 6:13 am
Operator : SCOTTM
Sample : JB94209-5
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 36 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

Signal : TIC: I20396

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.126	91	104	108	rVV7	3516	12982	1.50%	0.281%
2	6.056	470	473	476	rBV4	821	919	0.11%	0.020%
3	6.103	480	482	488	rVB6	1195	1126	0.13%	0.024%
4	6.145	488	490	491	rBV2	1055	706	0.08%	0.015%
5	6.302	516	520	522	rBV3	1112	1232	0.14%	0.027%
6	6.349	524	529	532	rVB5	1413	2143	0.25%	0.046%
7	6.422	540	543	546	rBV2	1300	1428	0.17%	0.031%
8	6.448	546	548	551	rVV2	1062	886	0.10%	0.019%
9	6.511	554	560	582	rVV2	22035	72328	8.38%	1.567%
10	6.699	595	596	602	rBV4	1250	1292	0.15%	0.028%
11	6.882	625	631	643	rVB2	6416	15913	1.84%	0.345%
12	6.997	652	653	659	rBV5	928	1412	0.16%	0.031%
13	7.170	675	686	714	rBV	21778	110228	12.78%	2.388%
14	7.803	803	807	808	rBV3	956	1000	0.12%	0.022%
15	7.824	808	811	814	rVB5	1380	1520	0.18%	0.033%
16	7.934	826	832	839	rBV7	1870	3892	0.45%	0.084%
17	8.022	848	849	855	rVB3	1208	1250	0.14%	0.027%
18	8.080	855	860	861	rBV3	737	1160	0.13%	0.025%
19	8.117	866	867	872	rVB3	601	731	0.08%	0.016%
20	8.341	905	910	911	rBV3	1065	1157	0.13%	0.025%
21	8.378	915	917	924	rBV5	781	1546	0.18%	0.033%
22	8.498	934	940	942	rBV5	1379	2013	0.23%	0.044%
23	8.525	942	945	951	rVV5	850	1483	0.17%	0.032%
24	8.640	962	967	977	rVV7	1866	5475	0.63%	0.119%
25	8.744	984	987	989	rBV3	1141	854	0.10%	0.019%
26	8.776	989	993	995	rVV3	1176	1452	0.17%	0.031%
27	8.917	1012	1020	1032	rBV4	2633	8542	0.99%	0.185%
28	9.456	1109	1123	1143	rBV2	222882	718896	83.34%	15.574%
29	9.890	1197	1206	1236	rBV	101066	239745	27.79%	5.194%
30	10.277	1279	1280	1288	rVB3	1266	2220	0.26%	0.048%
31	10.366	1288	1297	1323	rBV	202679	449988	52.16%	9.748%
32	10.601	1338	1342	1344	rBV2	1262	1387	0.16%	0.030%
33	10.664	1352	1354	1357	rVB3	1352	1234	0.14%	0.027%
34	10.695	1357	1360	1363	rBV2	939	894	0.10%	0.019%

MI8156.M Mon May 11 12:23:31 2015 RPT1 Page: 1

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203963.D
Acq On : 9 May 2015 6:13 am
Operator : SCOTTM
Sample : JB94209-5
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 36 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

35	10.794	1373	1379	1387	rVB3	1186	1696	0.20%	0.037%
36	10.873	1387	1394	1397	rBV3	877	1612	0.19%	0.035%
37	10.957	1409	1410	1416	rBV3	1013	967	0.11%	0.021%
38	11.019	1419	1422	1425	rBV4	1011	977	0.11%	0.021%
39	11.087	1434	1435	1440	rBV3	726	739	0.09%	0.016%
40	11.208	1452	1458	1461	rBV3	556	1108	0.13%	0.024%
41	11.317	1478	1479	1483	rBV2	614	773	0.09%	0.017%
42	11.427	1497	1500	1506	rBV5	781	1185	0.14%	0.026%
43	11.490	1510	1512	1516	rVB5	861	956	0.11%	0.021%
44	11.532	1518	1520	1525	rVV	746	684	0.08%	0.015%
45	11.652	1537	1543	1546	rVB2	897	1275	0.15%	0.028%
46	11.752	1560	1562	1568	rBV3	769	688	0.08%	0.015%
47	11.861	1578	1583	1588	rBV3	885	1275	0.15%	0.028%
48	12.024	1602	1614	1643	rVV	457796	862633	100.00%	18.688%
49	12.191	1644	1646	1652	rVB5	1444	1869	0.22%	0.040%
50	12.364	1676	1679	1680	rVB2	839	756	0.09%	0.016%
51	12.395	1680	1685	1689	rVB4	988	1847	0.21%	0.040%
52	12.426	1689	1691	1695	rBV4	1046	1093	0.13%	0.024%
53	12.463	1695	1698	1701	rVV	960	981	0.11%	0.021%
54	12.484	1701	1702	1705	rVV2	1040	845	0.10%	0.018%
55	12.520	1705	1709	1713	rVV4	1430	2263	0.26%	0.049%
56	12.547	1713	1714	1717	rVV2	1337	885	0.10%	0.019%
57	12.609	1723	1726	1727	rVB3	1230	823	0.10%	0.018%
58	12.740	1749	1751	1754	rBV4	918	1051	0.12%	0.023%
59	12.860	1772	1774	1777	rVB3	1011	821	0.10%	0.018%
60	12.918	1782	1785	1790	rVV4	846	1107	0.13%	0.024%
61	13.017	1798	1804	1812	rVB6	1248	2111	0.24%	0.046%
62	13.075	1812	1815	1817	rVB3	819	663	0.08%	0.014%
63	13.101	1817	1820	1823	rBV2	998	1161	0.13%	0.025%
64	13.159	1827	1831	1835	rBV5	1730	2524	0.29%	0.055%
65	13.357	1864	1869	1871	rBV3	1054	881	0.10%	0.019%
66	13.378	1871	1873	1877	rBV2	661	927	0.11%	0.020%
67	13.446	1884	1886	1891	rVB4	907	966	0.11%	0.021%
68	13.525	1891	1901	1929	rBV	303679	536017	62.14%	11.612%
69	13.734	1937	1941	1948	rVB3	3374	5682	0.66%	0.123%
70	13.802	1952	1954	1960	rVB3	1103	1370	0.16%	0.030%
71	13.844	1960	1962	1968	rVB4	743	914	0.11%	0.020%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203963.D
Acq On : 9 May 2015 6:13 am
Operator : SCOTTM
Sample : JB94209-5
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 36 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

72	13.933	1975	1979	1981	rBV3	864	963	0.11%	0.021%
73	14.042	1994	2000	2007	rBV6	1037	2652	0.31%	0.057%
74	14.147	2014	2020	2028	rBV4	3843	7407	0.86%	0.160%
75	14.314	2046	2052	2054	rBV6	864	1454	0.17%	0.031%
76	14.388	2060	2066	2070	rVB6	1151	1911	0.22%	0.041%
77	14.503	2080	2088	2090	rBV8	4599	8993	1.04%	0.195%
78	14.539	2090	2095	2101	rVB2	14193	22741	2.64%	0.493%
79	14.675	2109	2121	2132	rBV	350642	582299	67.50%	12.615%
80	14.848	2151	2154	2159	rVB4	2243	2381	0.28%	0.052%
81	14.895	2159	2163	2174	rBV4	9796	17140	1.99%	0.371%
82	15.010	2176	2185	2190	rBV3	13720	29286	3.39%	0.634%
83	15.204	2213	2222	2229	rVB7	19356	40097	4.65%	0.869%
84	15.360	2247	2252	2258	rVB7	1048	2382	0.28%	0.052%
85	15.402	2258	2260	2262	rBV3	1073	884	0.10%	0.019%
86	15.439	2262	2267	2278	rBV9	5287	11921	1.38%	0.258%
87	15.533	2283	2285	2288	rBV3	1086	817	0.09%	0.018%
88	15.601	2292	2298	2304	rBV7	2650	5008	0.58%	0.108%
89	15.674	2308	2312	2315	rBV5	2447	2611	0.30%	0.057%
90	15.727	2320	2322	2328	rVB6	1981	2524	0.29%	0.055%
91	15.842	2336	2344	2364	rBV	336837	531472	61.61%	11.514%
92	15.957	2364	2366	2372	rVB6	1895	2087	0.24%	0.045%
93	16.114	2391	2396	2407	rVB8	6760	14586	1.69%	0.316%
94	16.192	2408	2411	2413	rBV3	1378	1349	0.16%	0.029%
95	16.689	2501	2506	2513	rVB8	3649	5419	0.63%	0.117%
96	16.930	2549	2552	2558	rBV8	4107	5756	0.67%	0.125%
97	17.479	2654	2657	2665	rVB7	7585	9827	1.14%	0.213%
98	18.174	2785	2790	2804	rBV	74710	125249	14.52%	2.713%
99	19.393	3019	3023	3029	rVB4	14825	23127	2.68%	0.501%
100	19.623	3062	3067	3081	rBV2	22270	40487	4.69%	0.877%

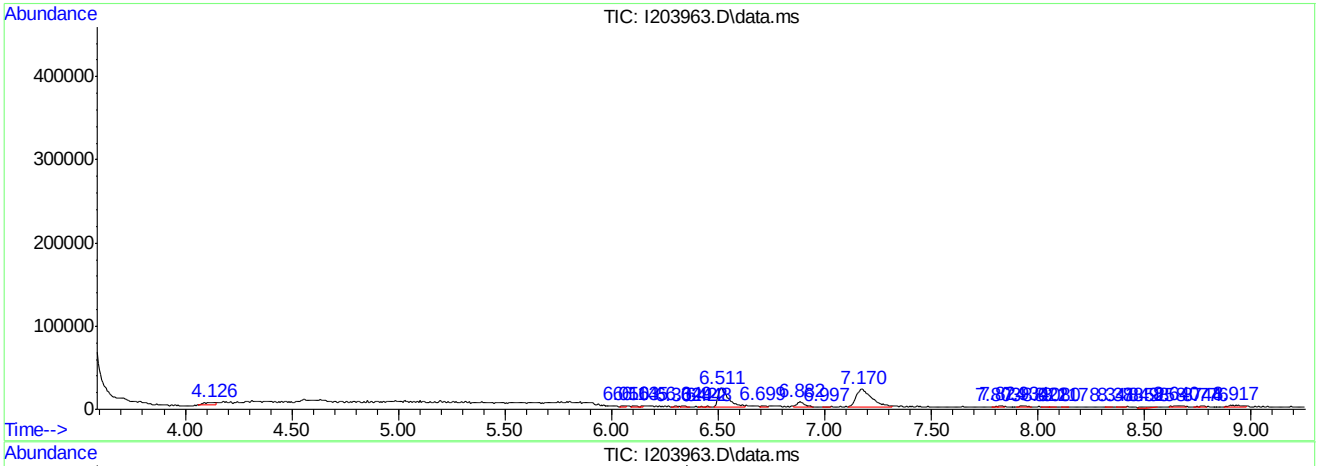
Sum of corrected areas: 4615989

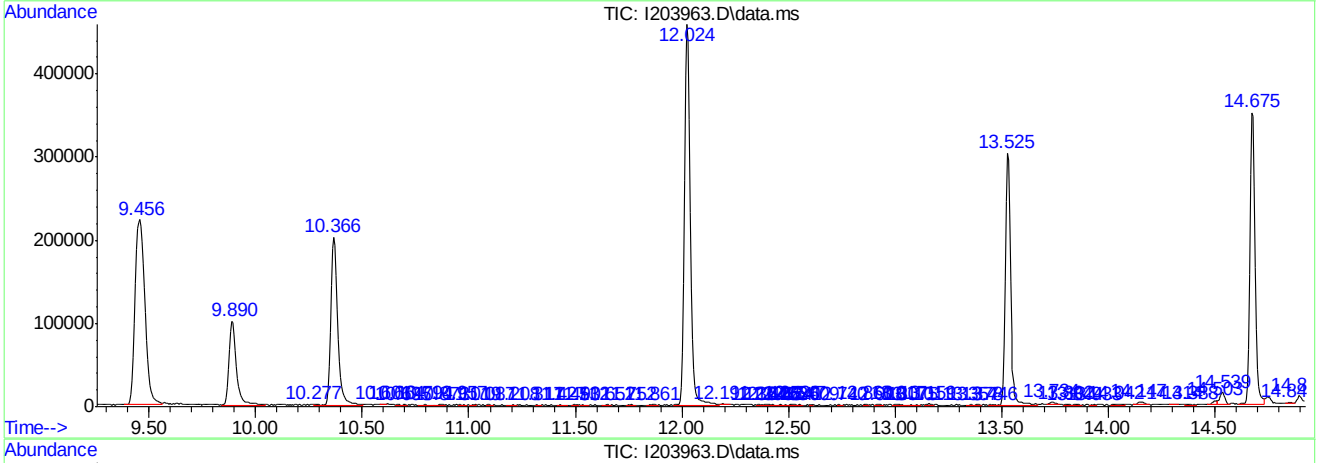
LSC Report - Integrated Chromatogram

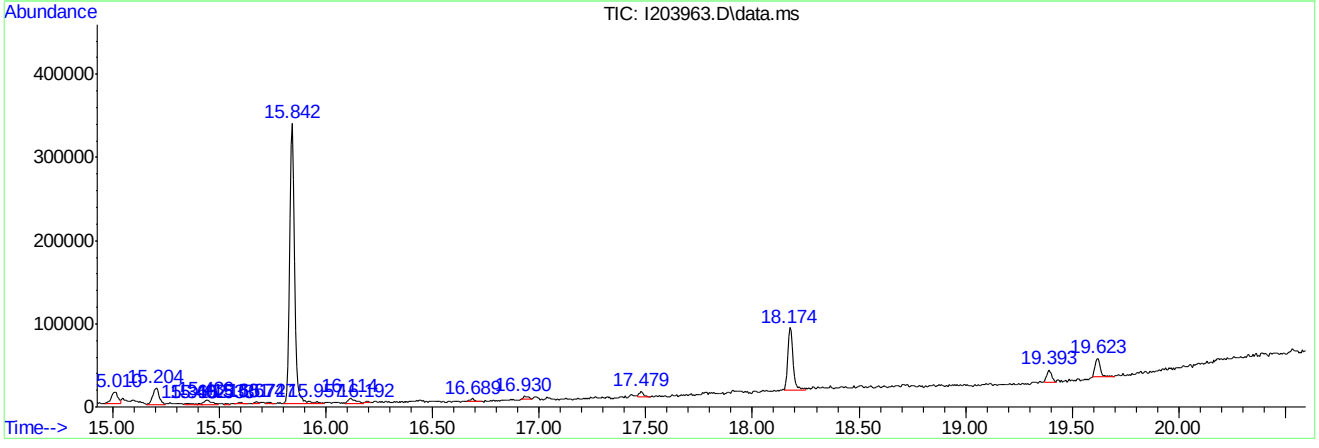
```
Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203963.D
Acq On    :  9 May 2015   6:13 am
Operator  : SCOTTM
Sample    : JB94209-5
Misc      : MS84864,VI8195,5.0,,,,1
ALS Vial  : 36   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title  : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P
```







Library Search Compound Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203963.D
Acq On : 9 May 2015 6:13 am
Operator : SCOTTM
Sample : JB94209-5
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

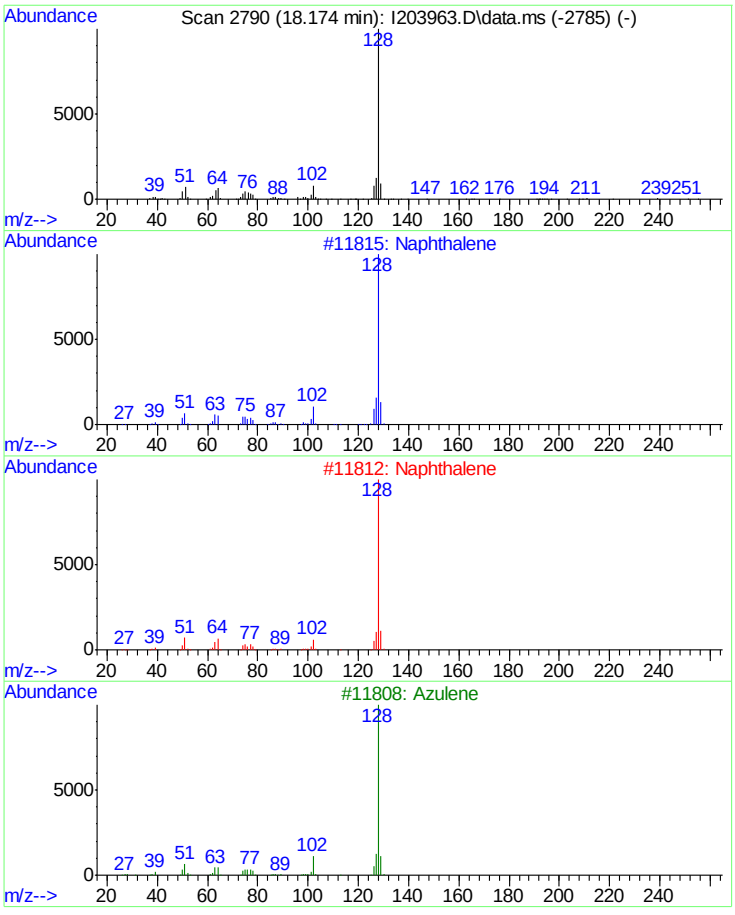
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

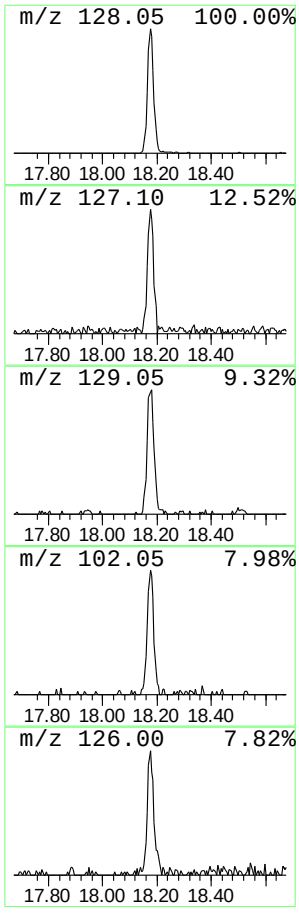
****

Peak Number 1 Naphthalene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.17	11.78 ug/L	125249	1,4-dichlorobenzene-d4	15.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene	128	C10H8	000091-20-3	97
2	Naphthalene	128	C10H8	000091-20-3	95
3	Azulene	128	C10H8	000275-51-4	94
4	Naphthalene	128	C10H8	000091-20-3	91
5	1H-Indene, 1-methylene-	128	C10H8	002471-84-3	91





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203963.D
Acq On : 9 May 2015 6:13 am
Operator : SCOTTM
Sample : JB94209-5
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Naphthalene	18.17	11.8	ug/L	125249	5	15.84	531472	50.0

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 05/12/15 03:51

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203964.D
Acq On : 9 May 2015 6:42 am
Operator : SCOTTM
Sample : JB94209-6
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 37 Sample Multiplier: 1

Quant Time: May 11 13:33:19 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 30 09:04:29 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.175	65	56822	500.00	ug/L	-0.02
5) pentafluorobenzene	9.450	168	163982	50.00	ug/L	0.00
48) 1,4-difluorobenzene	10.366	114	190441	50.00	ug/L	0.00
79) chlorobenzene-d5	13.525	117	153446	50.00	ug/L	0.00
94) 1,4-dichlorobenzene-d4	15.842	152	80365	50.00	ug/L	0.00

System Monitoring Compounds						
45) dibromofluoromethane (s)	9.471	113	84293	48.87	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 97.74%			
49) 1,2-dichloroethane-d4...	9.890	65	84660	49.74	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 99.48%			
80) toluene-d8 (s)	12.024	98	305649	47.68	ug/L	0.00
Spiked Amount 50.000	Range 78 - 129		Recovery = 95.36%			
95) 4-bromofluorobenzene (s)	14.675	95	104633	47.02	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 94.04%			

Target Compounds						Qvalue
18) acetone	6.521	58	16395m	114.75	ug/L	
20) carbon disulfide	6.888	76	4544	0.56	ug/L #	70
35) 2-butanone	8.901	72	2453m	17.44	ug/L	

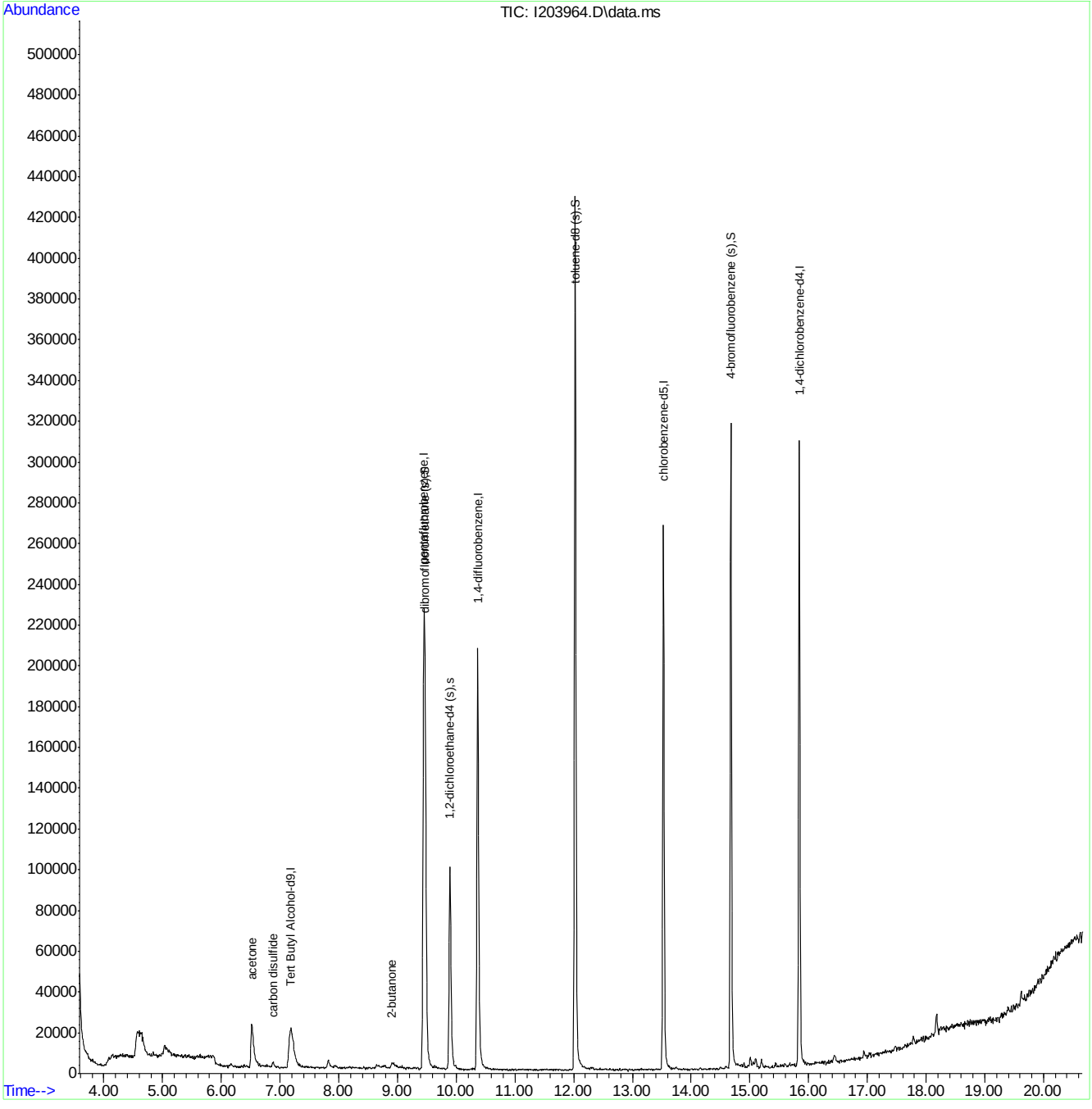
(#) = qualifier out of range (m) = manual integration (+) = signals summed

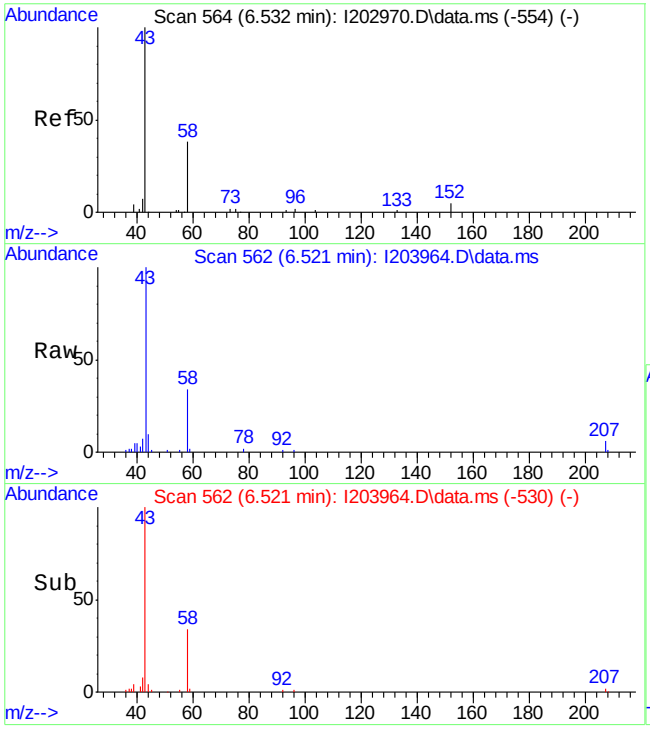
7.1.11
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203964.D
Acq On : 9 May 2015 6:42 am
Operator : SCOTTM
Sample : JB94209-6
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 37 Sample Multiplier: 1

Quant Time: May 11 13:33:19 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 30 09:04:29 2015
Response via : Initial Calibration

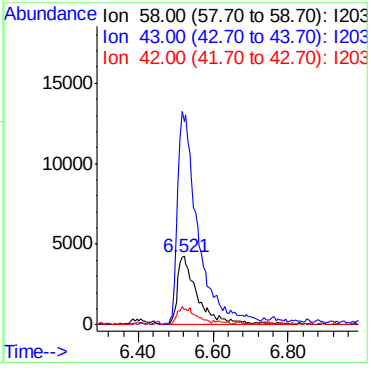


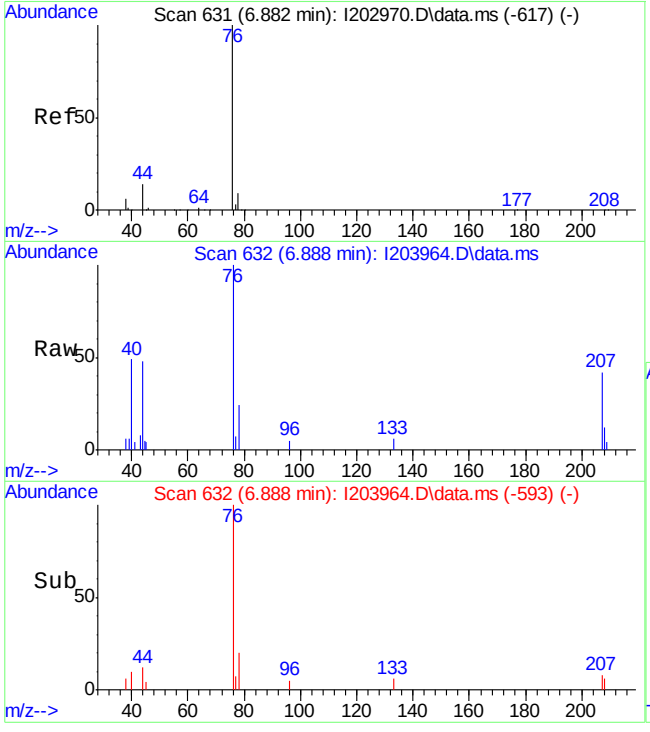


#18
acetone
Concen: 114.75 ug/L m
RT: 6.521 min Scan# 562
Delta R.T. -0.010 min
Lab File: I203964.D
Acq: 9 May 2015 6:42 am

Tgt Ion: 58 Resp: 16395

Ion	Ratio	Lower	Upper
58	100		
43	297.2	272.8	332.8
42	22.2	2.5	62.5

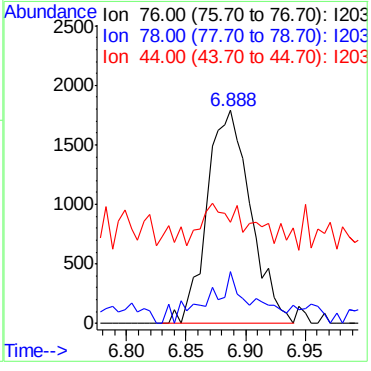


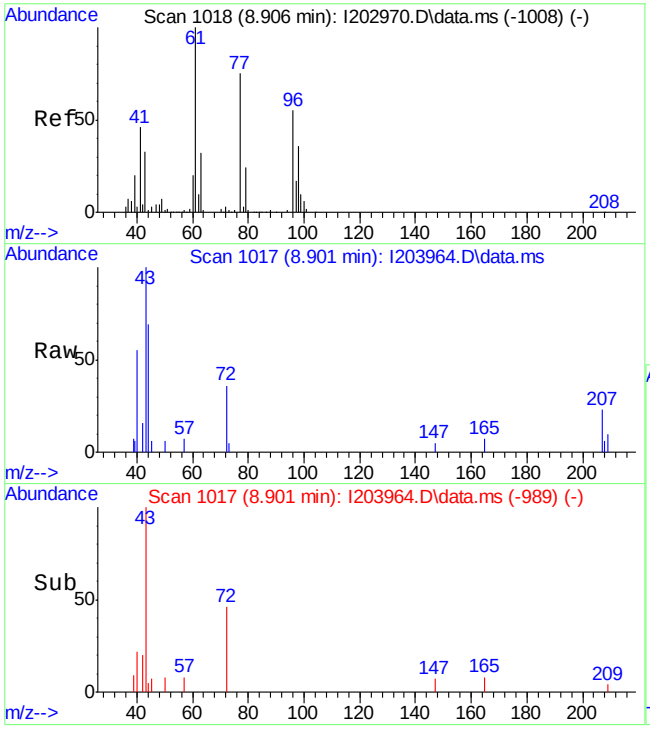


#20
carbon disulfide
Concen: 0.56 ug/L
RT: 6.888 min Scan# 632
Delta R.T. 0.005 min
Lab File: I203964.D
Acq: 9 May 2015 6:42 am

Tgt Ion: 76 Resp: 4544

Ion	Ratio	Lower	Upper
76	100		
78	30.1	0.0	29.3#
44	20.1	0.0	34.6

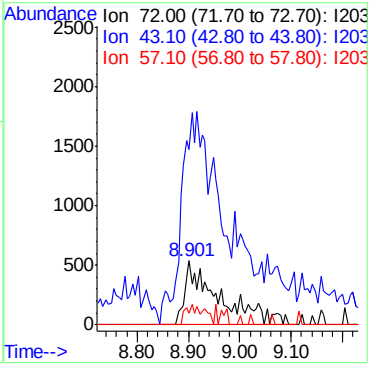




#35
2-butanone
Concen: 17.44 ug/L m
RT: 8.901 min Scan# 1017
Delta R.T. -0.005 min
Lab File: I203964.D
Acq: 9 May 2015 6:42 am

Tgt Ion: 72 Resp: 2453

Ion	Ratio	Lower	Upper
72	100		
43	404.3	927.1	1721.7#
57	0.0	20.0	37.2#



7.1.11

7

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203964.D
Acq On : 9 May 2015 6:42 am
Operator : SCOTTM
Sample : JB94209-6
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 37 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

Signal : TIC: I20396

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.812	43	44	62	rVB8	2740	6578	0.82%	0.155%
2	3.948	68	70	74	rVB2	1093	1288	0.16%	0.030%
3	4.068	80	93	94	rBV4	3324	6350	0.79%	0.150%
4	4.089	94	97	99	rVV4	2462	2546	0.32%	0.060%
5	4.147	102	108	113	rVV5	2030	5280	0.66%	0.124%
6	4.602	176	195	196	rBV3	13142	49143	6.10%	1.157%
7	4.921	255	256	259	rBV3	1314	1246	0.15%	0.029%
8	5.036	274	278	282	rBV3	3898	6566	0.82%	0.155%
9	5.329	332	334	337	rVB4	1696	1293	0.16%	0.030%
10	5.386	341	345	348	rVB5	1735	2228	0.28%	0.052%
11	5.549	374	376	379	rBV4	1576	1770	0.22%	0.042%
12	6.166	486	494	505	rBV9	2246	6390	0.79%	0.150%
13	6.391	533	537	542	rBV5	1547	2634	0.33%	0.062%
14	6.516	554	561	584	rBV	21308	76697	9.52%	1.806%
15	6.647	584	586	592	rVV5	1361	1344	0.17%	0.032%
16	6.888	625	632	642	rVB3	3067	7289	0.90%	0.172%
17	7.008	653	655	662	rBV5	936	1706	0.21%	0.040%
18	7.191	673	690	714	rBV2	19950	113145	14.05%	2.664%
19	7.416	730	733	735	rVB4	1250	1199	0.15%	0.028%
20	7.437	735	737	739	rBV3	1015	1000	0.12%	0.024%
21	7.484	743	746	751	rBV5	1064	1475	0.18%	0.035%
22	7.824	801	811	823	rVV6	3884	11517	1.43%	0.271%
23	7.928	828	831	844	rVV7	1692	4011	0.50%	0.094%
24	8.096	862	863	867	rVB2	1263	1303	0.16%	0.031%
25	8.132	867	870	873	rBV4	1143	1574	0.20%	0.037%
26	8.195	877	882	885	rVB5	1039	1368	0.17%	0.032%
27	8.425	920	926	932	rVB5	1567	2800	0.35%	0.066%
28	8.472	932	935	939	rBV3	1015	927	0.12%	0.022%
29	8.645	961	968	972	rBV6	2075	4589	0.57%	0.108%
30	8.776	991	993	1000	rVB5	1167	1518	0.19%	0.036%
31	8.901	1009	1017	1021	rBV7	2784	5889	0.73%	0.139%
32	9.074	1047	1050	1052	rBV2	1314	983	0.12%	0.023%
33	9.116	1057	1058	1064	rVB4	1103	1458	0.18%	0.034%
34	9.205	1074	1075	1079	rVB2	906	926	0.11%	0.022%

MI8156.M Mon May 11 13:33:30 2015 RPT1 Page: 1

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203964.D
Acq On : 9 May 2015 6:42 am
Operator : SCOTTM
Sample : JB94209-6
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 37 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

35	9.450	1108	1122	1154	rBV3	226319	747963	92.85%	17.612%
36	9.633	1156	1157	1162	rBV4	1174	1029	0.13%	0.024%
37	9.696	1168	1169	1175	rBV4	819	932	0.12%	0.022%
38	9.890	1193	1206	1223	rBV	99330	233122	28.94%	5.489%
39	10.109	1246	1248	1253	rVB3	886	1251	0.16%	0.029%
40	10.204	1260	1266	1269	rBV2	539	938	0.12%	0.022%
41	10.366	1288	1297	1319	rBV	207062	447252	55.52%	10.531%
42	10.533	1325	1329	1335	rVB3	1133	1651	0.20%	0.039%
43	10.617	1340	1345	1346	rBV4	863	1052	0.13%	0.025%
44	10.690	1357	1359	1368	rVB4	833	1415	0.18%	0.033%
45	10.774	1368	1375	1376	rVB2	820	1246	0.15%	0.029%
46	10.946	1404	1408	1411	rBV3	782	1142	0.14%	0.027%
47	11.009	1417	1420	1423	rVB	924	928	0.12%	0.022%
48	12.024	1604	1614	1641	rBV	428663	805567	100.00%	18.969%
49	12.296	1662	1666	1668	rBV3	1327	1471	0.18%	0.035%
50	12.311	1668	1669	1675	rVB3	1327	1562	0.19%	0.037%
51	12.447	1690	1695	1697	rBV3	1133	1099	0.14%	0.026%
52	12.615	1723	1727	1731	rBV2	1121	961	0.12%	0.023%
53	12.714	1744	1746	1751	rBV3	1021	1289	0.16%	0.030%
54	12.787	1755	1760	1763	rBV2	1105	999	0.12%	0.024%
55	12.902	1778	1782	1786	rVB4	1378	2279	0.28%	0.054%
56	12.949	1786	1791	1793	rBV3	1068	1781	0.22%	0.042%
57	13.080	1812	1816	1822	rVB4	869	1233	0.15%	0.029%
58	13.117	1822	1823	1828	rBV3	768	1046	0.13%	0.025%
59	13.153	1828	1830	1838	rVB4	951	1320	0.16%	0.031%
60	13.321	1860	1862	1868	rVB	819	1293	0.16%	0.030%
61	13.525	1891	1901	1918	rBV	267541	471462	58.53%	11.102%
62	13.739	1938	1942	1951	rVV6	1372	2655	0.33%	0.063%
63	14.006	1988	1993	1996	rVB4	734	1189	0.15%	0.028%
64	14.152	2017	2021	2025	rVB5	1142	1749	0.22%	0.041%
65	14.309	2050	2051	2058	rVV3	697	1027	0.13%	0.024%
66	14.377	2063	2064	2070	rVB3	939	1290	0.16%	0.030%
67	14.424	2070	2073	2075	rBV3	935	1148	0.14%	0.027%
68	14.498	2081	2087	2093	rBV4	1320	2689	0.33%	0.063%
69	14.597	2101	2106	2112	rVB6	1059	1391	0.17%	0.033%
70	14.675	2112	2121	2137	rBV	316329	522885	64.91%	12.312%
71	14.900	2162	2164	2169	rVB4	2243	1360	0.17%	0.032%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203964.D
Acq On : 9 May 2015 6:42 am
Operator : SCOTTM
Sample : JB94209-6
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 37 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

72	14.968	2174	2177	2179	rBV3	1229	1380	0.17%	0.032%
73	15.005	2179	2184	2191	rVV7	4825	9286	1.15%	0.219%
74	15.052	2191	2193	2196	rVV4	2390	2735	0.34%	0.064%
75	15.094	2198	2201	2208	rVB5	3954	6370	0.79%	0.150%
76	15.198	2213	2221	2228	rBV9	4725	9390	1.17%	0.221%
77	15.266	2231	2234	2238	rBV3	1237	1207	0.15%	0.028%
78	15.439	2260	2267	2273	rBV7	2571	5490	0.68%	0.129%
79	15.523	2279	2283	2285	rVB3	1447	1501	0.19%	0.035%
80	15.544	2285	2287	2289	rBV2	1262	1224	0.15%	0.029%
81	15.596	2294	2297	2304	rVB8	1521	2278	0.28%	0.054%
82	15.680	2308	2313	2316	rBV6	2062	2185	0.27%	0.051%
83	15.716	2316	2320	2322	rBV5	1118	1366	0.17%	0.032%
84	15.842	2331	2344	2362	rBV	307444	513026	63.69%	12.080%
85	15.941	2362	2363	2367	rVB3	1636	1130	0.14%	0.027%
86	15.978	2367	2370	2372	rBV4	1210	1135	0.14%	0.027%
87	16.025	2377	2379	2383	rBV3	1162	1141	0.14%	0.027%
88	16.124	2393	2398	2399	rBV4	1450	1652	0.21%	0.039%
89	16.370	2442	2445	2447	rBV4	1322	1026	0.13%	0.024%
90	16.438	2452	2458	2468	rBV5	3738	9138	1.13%	0.215%
91	16.611	2490	2491	2494	rBV3	1147	895	0.11%	0.021%
92	16.637	2494	2496	2500	rBV4	1115	1724	0.21%	0.041%
93	16.778	2521	2523	2526	rBV4	1431	1084	0.13%	0.026%
94	16.940	2550	2554	2560	rBV7	3772	7367	0.91%	0.173%
95	17.034	2568	2572	2579	rBV8	2240	4396	0.55%	0.104%
96	17.259	2613	2615	2617	rBV3	1240	1060	0.13%	0.025%
97	17.479	2654	2657	2661	rVB5	2896	4535	0.56%	0.107%
98	17.782	2711	2715	2722	rVB10	4152	7742	0.96%	0.182%
99	18.180	2786	2791	2798	rVB2	10251	20908	2.60%	0.492%
100	19.623	3062	3067	3075	rBV2	7047	17736	2.20%	0.418%

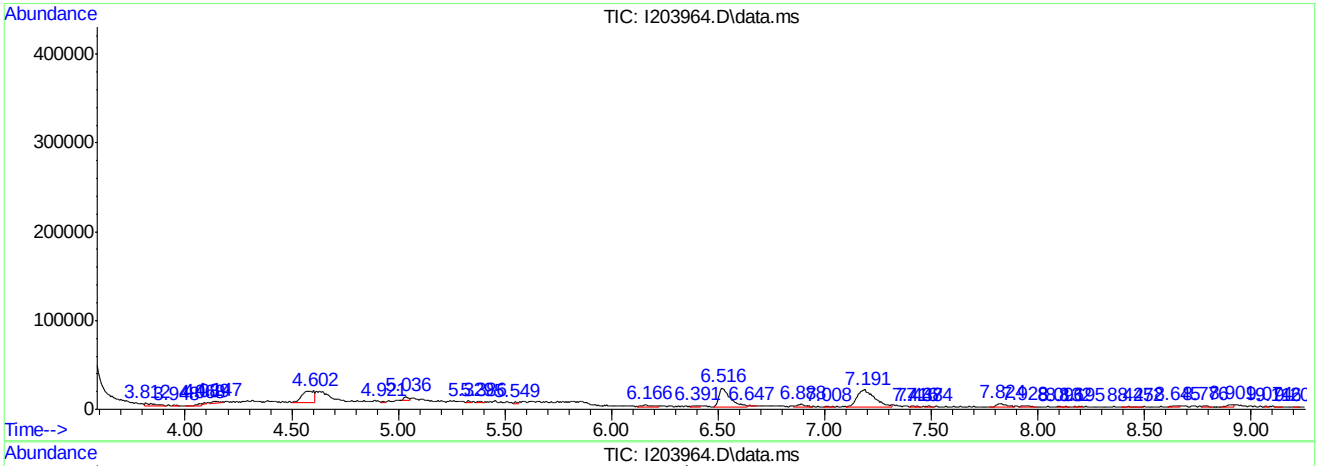
Sum of corrected areas: 4246803

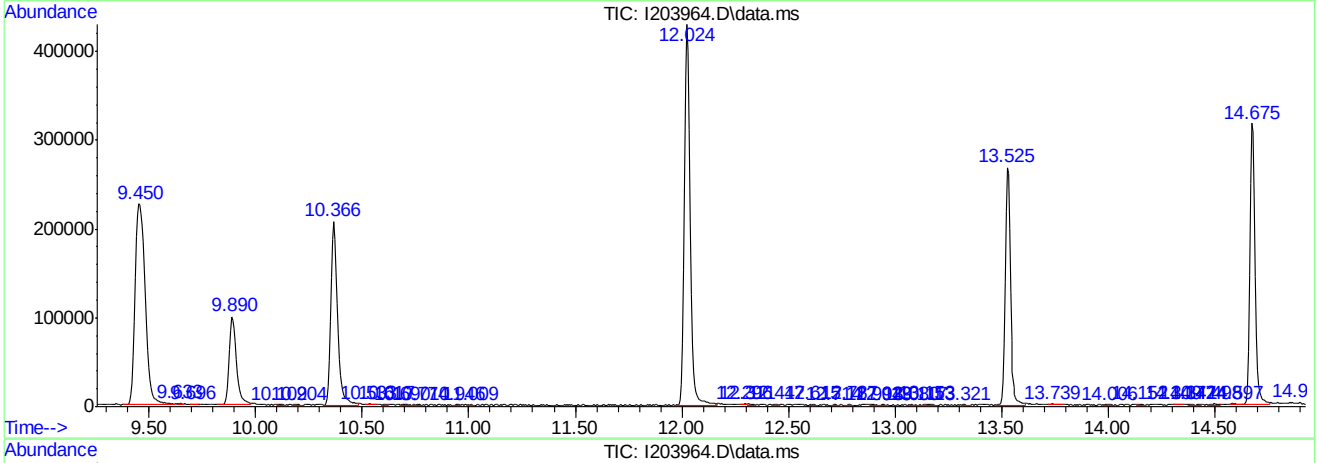
LSC Report - Integrated Chromatogram

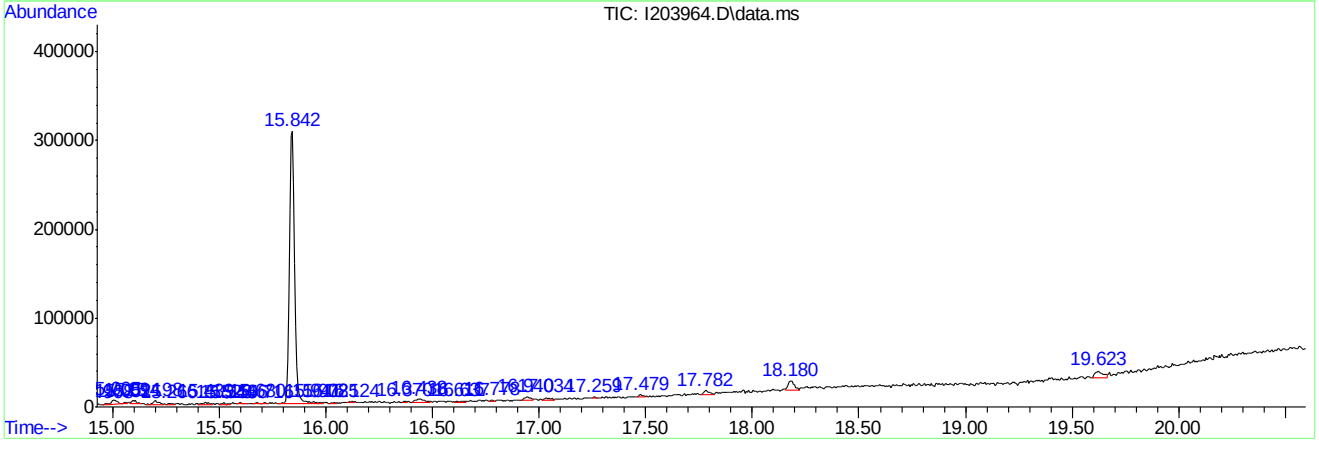
Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203964.D
Acq On : 9 May 2015 6:42 am
Operator : SCOTTM
Sample : JB94209-6
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 37 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P







Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203964.D
Acq On : 9 May 2015 6:42 am
Operator : SCOTTM
Sample : JB94209-6
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 37 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203965.D
Acq On : 9 May 2015 7:10 am
Operator : SCOTTM
Sample : JB94209-7
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 38 Sample Multiplier: 1

Quant Time: May 11 13:36:45 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 30 09:04:29 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.201	65	65410	500.00	ug/L	0.00
5) pentafluorobenzene	9.445	168	178418	50.00	ug/L	0.00
48) 1,4-difluorobenzene	10.366	114	208812	50.00	ug/L	0.00
79) chlorobenzene-d5	13.525	117	159553	50.00	ug/L	0.00
94) 1,4-dichlorobenzene-d4	15.842	152	79927	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.471	113	91601	48.81	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 97.62%			
49) 1,2-dichloroethane-d4...	9.890	65	91315	48.93	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 97.86%			
80) toluene-d8 (s)	12.024	98	336140	50.43	ug/L	0.00
Spiked Amount 50.000	Range 78 - 129		Recovery = 100.86%			
95) 4-bromofluorobenzene (s)	14.675	95	108953	49.23	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 98.46%			

Target Compounds

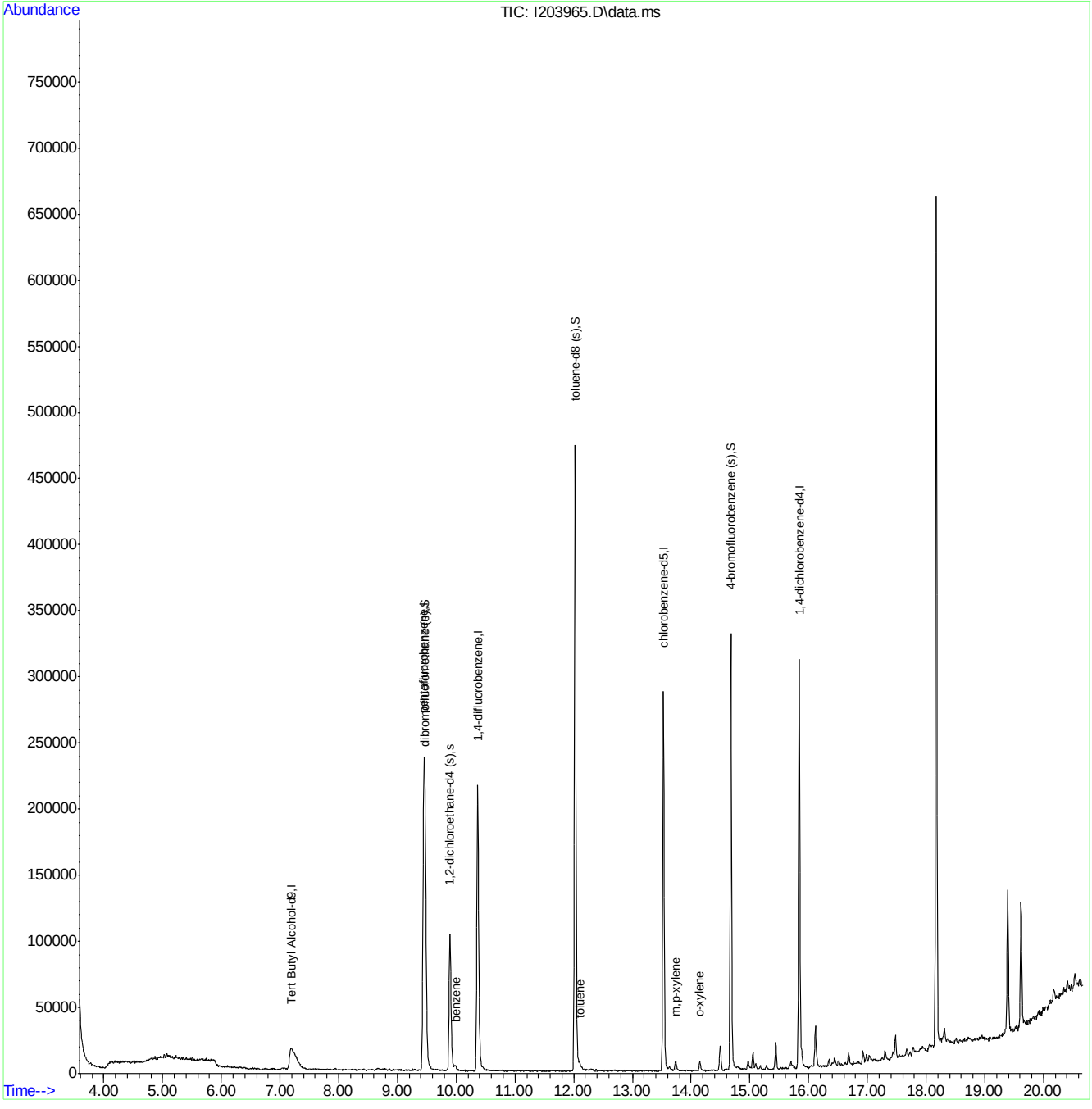
						Qvalue
54) benzene	10.000	78	3628	0.42	ug/L	93
73) toluene	12.107	91	2838	0.34	ug/L #	94
90) m,p-xylene	13.729	106	2411	0.78	ug/L	77
91) o-xylene	14.147	106	2022	0.65	ug/L	93

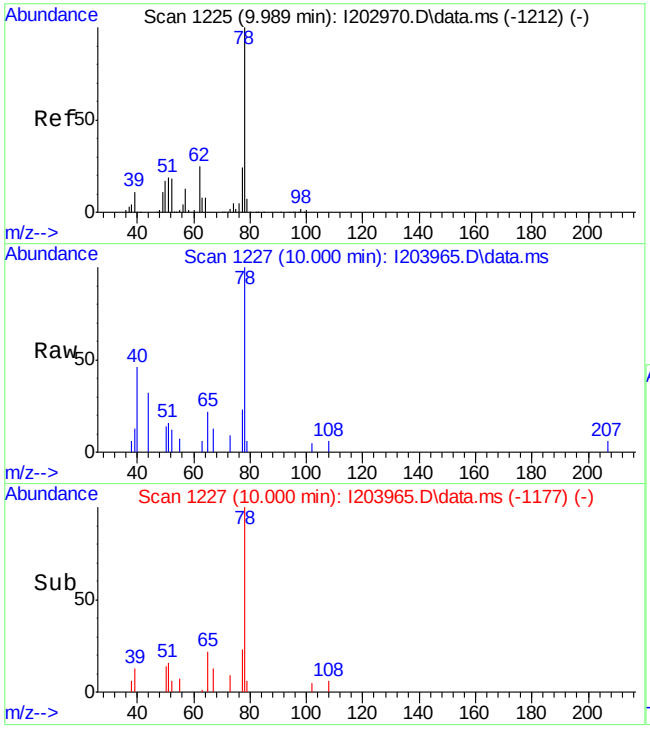
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203965.D
Acq On : 9 May 2015 7:10 am
Operator : SCOTTM
Sample : JB94209-7
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 38 Sample Multiplier: 1

Quant Time: May 11 13:36:45 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 30 09:04:29 2015
Response via : Initial Calibration

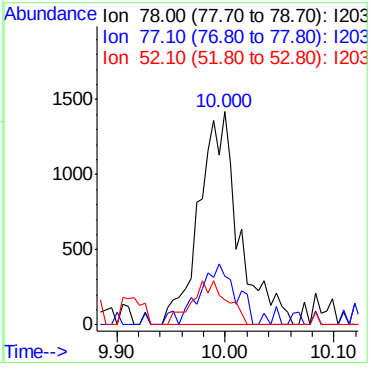


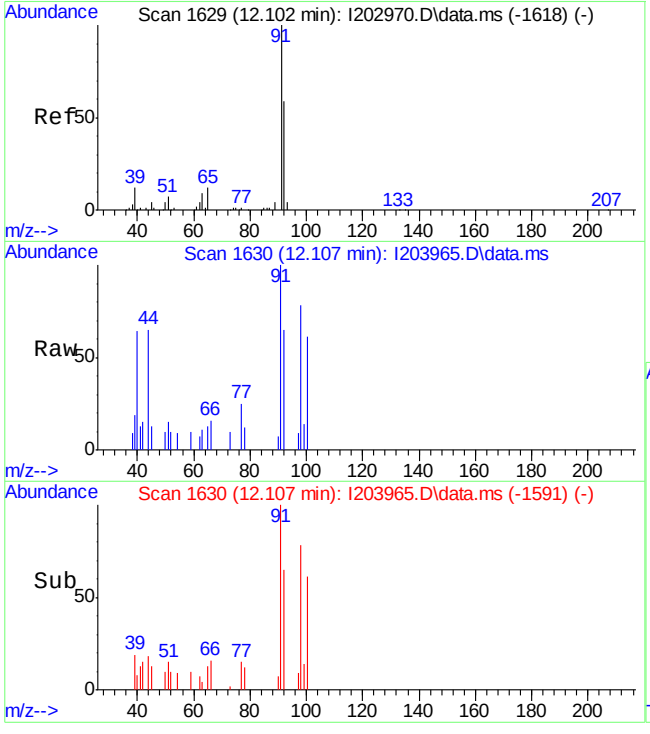


#54
benzene
Concen: 0.42 ug/L
RT: 10.000 min Scan# 1227
Delta R.T. 0.011 min
Lab File: I203965.D
Acq: 9 May 2015 7:10 am

Tgt Ion: 78 Resp: 3628

Ion	Ratio	Lower	Upper
78	100		
77	22.9	0.0	54.0
52	12.0	0.0	48.4

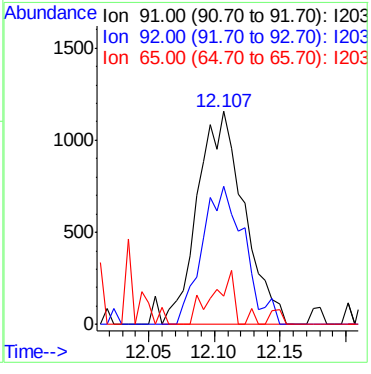


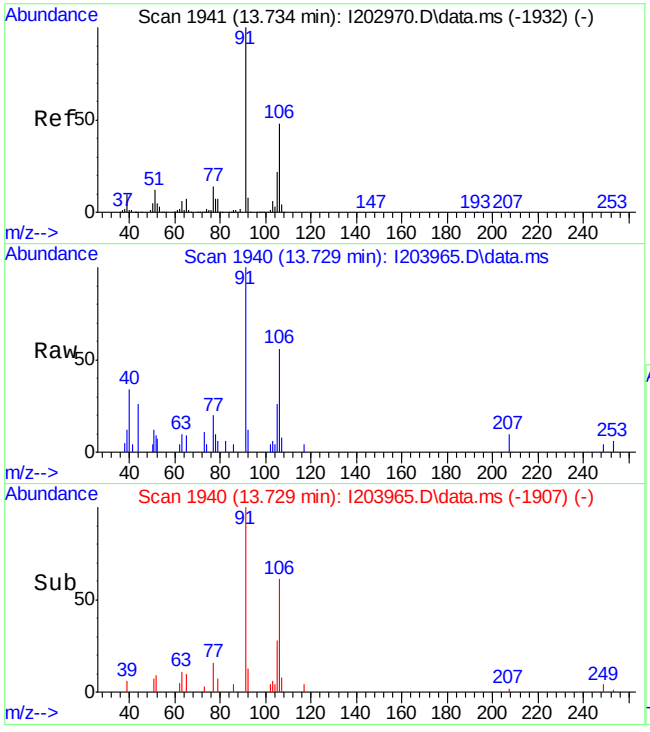


#73
toluene
Concen: 0.34 ug/L
RT: 12.107 min Scan# 1630
Delta R.T. 0.005 min
Lab File: I203965.D
Acq: 9 May 2015 7:10 am

Tgt Ion: 91 Resp: 2838

Ion	Ratio	Lower	Upper
91	100		
92	59.0	38.7	78.7
65	0.0	0.0	32.5

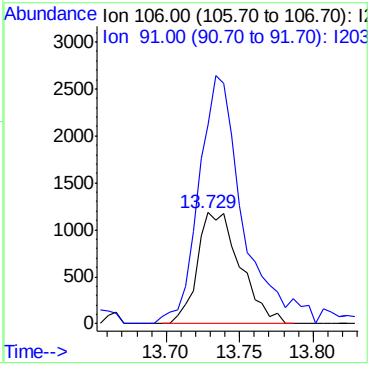


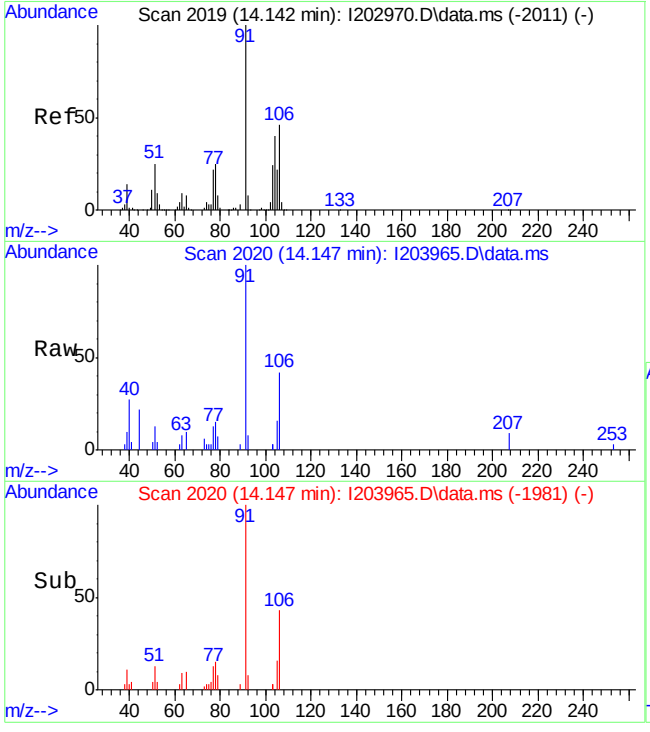


#90
m,p-xylene
Concen: 0.78 ug/L
RT: 13.729 min Scan# 1940
Delta R.T. -0.005 min
Lab File: I203965.D
Acq: 9 May 2015 7:10 am

Tgt Ion:106 Resp: 2411

Ion	Ratio	Lower	Upper
106	100		
91	171.9	145.4	270.0

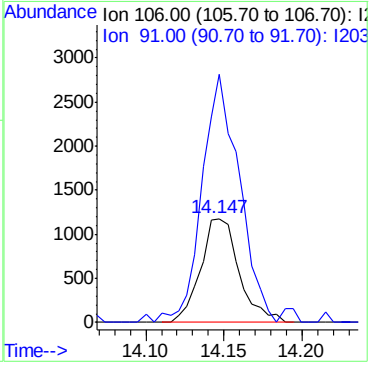




#91
o-xylene
Concen: 0.65 ug/L
RT: 14.147 min Scan# 2020
Delta R.T. 0.005 min
Lab File: I203965.D
Acq: 9 May 2015 7:10 am

Tgt Ion:106 Resp: 2022

Ion	Ratio	Lower	Upper
106	100		
91	229.0	152.7	283.7



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203965.D
Acq On : 9 May 2015 7:10 am
Operator : SCOTTM
Sample : JB94209-7
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 38 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 550 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.5 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

Signal : TIC: I20396

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.105	88	100	103	rBV10	4586	11984	1.21%	0.202%
2	6.490	554	556	559	rBV4	1068	737	0.07%	0.012%
3	6.532	561	564	567	rBV3	1355	1253	0.13%	0.021%
4	6.694	589	595	597	rBV4	1146	1556	0.16%	0.026%
5	6.856	624	626	628	rBV	1254	846	0.09%	0.014%
6	7.039	656	661	666	rBV8	1184	2212	0.22%	0.037%
7	7.186	677	689	730	rBV2	16722	126050	12.71%	2.122%
8	7.489	746	747	754	rBV4	773	1055	0.11%	0.018%
9	7.630	773	774	777	rBV2	1282	1036	0.10%	0.017%
10	7.693	784	786	792	rBV6	976	1378	0.14%	0.023%
11	8.070	857	858	863	rBV3	1370	1330	0.13%	0.022%
12	8.279	895	898	900	rVB2	955	777	0.08%	0.013%
13	8.305	900	903	905	rBV3	1387	923	0.09%	0.016%
14	8.614	960	962	965	rBV4	667	730	0.07%	0.012%
15	8.661	965	971	980	rVV8	1624	4974	0.50%	0.084%
16	8.781	993	994	1003	rVB3	1498	2493	0.25%	0.042%
17	8.865	1007	1010	1018	rVB3	1280	1851	0.19%	0.031%
18	8.922	1018	1021	1025	rBV3	990	1284	0.13%	0.022%
19	9.027	1039	1041	1043	rBV3	940	783	0.08%	0.013%
20	9.142	1059	1063	1066	rVB2	1173	1612	0.16%	0.027%
21	9.173	1066	1069	1071	rBV2	972	1196	0.12%	0.020%
22	9.252	1080	1084	1087	rBV4	1556	1879	0.19%	0.032%
23	9.288	1087	1091	1092	rBV4	839	831	0.08%	0.014%
24	9.361	1102	1105	1107	rBV2	1066	1129	0.11%	0.019%
25	9.456	1112	1123	1149	rBV2	237931	801959	80.84%	13.501%
26	9.728	1173	1175	1177	rBV2	1075	1120	0.11%	0.019%
27	9.890	1195	1206	1220	rBV	103820	247230	24.92%	4.162%
28	10.141	1251	1254	1257	rVB2	1034	1017	0.10%	0.017%
29	10.177	1259	1261	1264	rBV2	712	736	0.07%	0.012%
30	10.366	1287	1297	1322	rVV	216541	489809	49.38%	8.246%
31	10.512	1322	1325	1326	rVV	1476	1351	0.14%	0.023%
32	10.528	1327	1328	1334	rVV3	1188	1705	0.17%	0.029%
33	10.580	1334	1338	1341	rVV3	1209	1295	0.13%	0.022%
34	10.632	1345	1348	1353	rVB4	880	1017	0.10%	0.017%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203965.D
Acq On : 9 May 2015 7:10 am
Operator : SCOTTM
Sample : JB94209-7
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 38 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 550 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.5 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

35	10.742	1367	1369	1375	rVB4	971	1080	0.11%	0.018%
36	10.784	1375	1377	1383	rVB3	943	1419	0.14%	0.024%
37	10.836	1383	1387	1390	rBV3	641	825	0.08%	0.014%
38	10.951	1405	1409	1411	rVV2	945	962	0.10%	0.016%
39	10.999	1415	1418	1422	rBV2	728	945	0.10%	0.016%
40	11.046	1422	1427	1429	rBV4	814	957	0.10%	0.016%
41	11.129	1440	1443	1447	rVB3	769	1004	0.10%	0.017%
42	11.344	1482	1484	1492	rVV4	646	1046	0.11%	0.018%
43	11.762	1563	1564	1568	rBV2	739	949	0.10%	0.016%
44	11.830	1576	1577	1582	rVB2	956	979	0.10%	0.016%
45	11.961	1599	1602	1604	rBV2	804	1028	0.10%	0.017%
46	12.024	1604	1614	1641	rBV	473251	889751	89.70%	14.979%
47	12.212	1649	1650	1653	rBV4	1143	783	0.08%	0.013%
48	12.306	1660	1668	1676	rVB5	1810	4550	0.46%	0.077%
49	12.374	1679	1681	1685	rBV3	1494	890	0.09%	0.015%
50	12.526	1708	1710	1717	rBV3	823	1171	0.12%	0.020%
51	12.677	1734	1739	1741	rBV3	745	890	0.09%	0.015%
52	12.698	1741	1743	1747	rVV3	1212	932	0.09%	0.016%
53	12.735	1747	1750	1753	rVB3	829	833	0.08%	0.014%
54	12.772	1753	1757	1759	rBV3	809	1033	0.10%	0.017%
55	12.813	1763	1765	1769	rVB4	738	824	0.08%	0.014%
56	12.861	1771	1774	1776	rVB	1079	842	0.08%	0.014%
57	13.023	1800	1805	1807	rBV2	684	765	0.08%	0.013%
58	13.070	1811	1814	1818	rVB4	802	969	0.10%	0.016%
59	13.127	1822	1825	1827	rBV3	814	713	0.07%	0.012%
60	13.248	1846	1848	1853	rVB3	546	726	0.07%	0.012%
61	13.525	1892	1901	1914	rBV	287391	494796	49.88%	8.330%
62	13.629	1919	1921	1930	rVV5	3540	6828	0.69%	0.115%
63	13.739	1933	1942	1954	rVV3	7940	18054	1.82%	0.304%
64	13.922	1972	1977	1978	rBV4	1005	971	0.10%	0.016%
65	13.980	1987	1988	1994	rVB3	657	704	0.07%	0.012%
66	14.022	1994	1996	1999	rBV3	776	831	0.08%	0.014%
67	14.058	1999	2003	2006	rBV2	851	1087	0.11%	0.018%
68	14.147	2013	2020	2032	rBV4	7782	14956	1.51%	0.252%
69	14.252	2039	2040	2048	rBV5	1121	1978	0.20%	0.033%
70	14.330	2054	2055	2059	rVV2	847	801	0.08%	0.013%
71	14.356	2059	2060	2062	rVV	1185	718	0.07%	0.012%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203965.D
Acq On : 9 May 2015 7:10 am
Operator : SCOTTM
Sample : JB94209-7
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 38 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 550 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.5 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

72	14.372	2062	2063	2069	rVB3	1060	1457	0.15%	0.025%
73	14.492	2079	2086	2099	rVB2	18973	37417	3.77%	0.630%
74	14.586	2099	2104	2106	rBV5	1290	2113	0.21%	0.036%
75	14.675	2113	2121	2140	rBV	330517	544534	54.89%	9.167%
76	14.796	2140	2144	2146	rVB4	1457	1813	0.18%	0.031%
77	14.864	2155	2157	2159	rBV3	1353	813	0.08%	0.014%
78	14.895	2159	2163	2166	rVV5	927	1172	0.12%	0.020%
79	14.968	2171	2177	2187	rVV3	6468	13679	1.38%	0.230%
80	15.052	2187	2193	2197	rVV2	13348	22218	2.24%	0.374%
81	15.099	2198	2202	2209	rVV5	5030	8323	0.84%	0.140%
82	15.178	2209	2217	2223	rVB7	3237	5589	0.56%	0.094%
83	15.282	2228	2237	2246	rBV9	3384	8515	0.86%	0.143%
84	15.439	2260	2267	2276	rBV	20308	31791	3.20%	0.535%
85	15.701	2308	2317	2326	rBV10	5999	16902	1.70%	0.285%
86	15.842	2336	2344	2363	rBV	309802	526015	53.03%	8.856%
87	16.041	2377	2382	2387	rBV8	1904	4517	0.46%	0.076%
88	16.119	2390	2397	2408	rVB2	31025	54988	5.54%	0.926%
89	16.349	2436	2441	2445	rBV2	4767	6312	0.64%	0.106%
90	16.516	2468	2473	2479	rVB6	4148	7711	0.78%	0.130%
91	16.684	2500	2505	2514	rVB3	9100	16165	1.63%	0.272%
92	16.924	2545	2551	2557	rBV4	9966	18014	1.82%	0.303%
93	16.987	2558	2563	2567	rVV4	6488	10241	1.03%	0.172%
94	17.029	2567	2571	2584	rVV10	5331	13966	1.41%	0.235%
95	17.296	2619	2622	2638	rVB9	7282	17150	1.73%	0.289%
96	17.432	2646	2648	2651	rBV3	3061	3857	0.39%	0.065%
97	17.479	2652	2657	2664	rVB2	17256	27474	2.77%	0.463%
98	18.174	2782	2790	2802	rBV	642830	991972	100.00%	16.700%
99	19.388	3016	3022	3038	rVB	108149	184399	18.59%	3.104%
100	19.618	3059	3066	3087	rBV	95262	185101	18.66%	3.116%

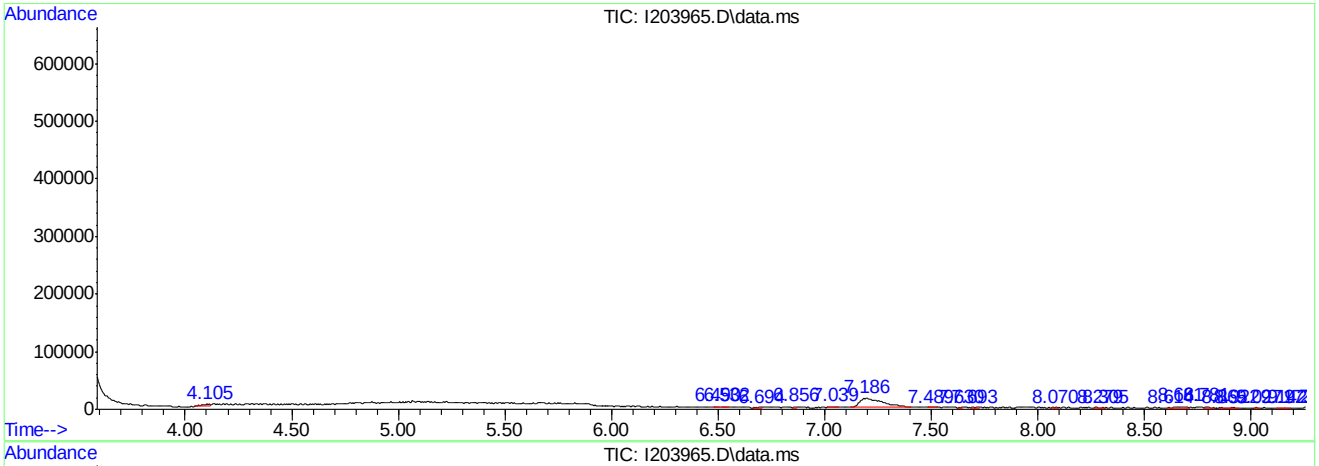
Sum of corrected areas: 5939946

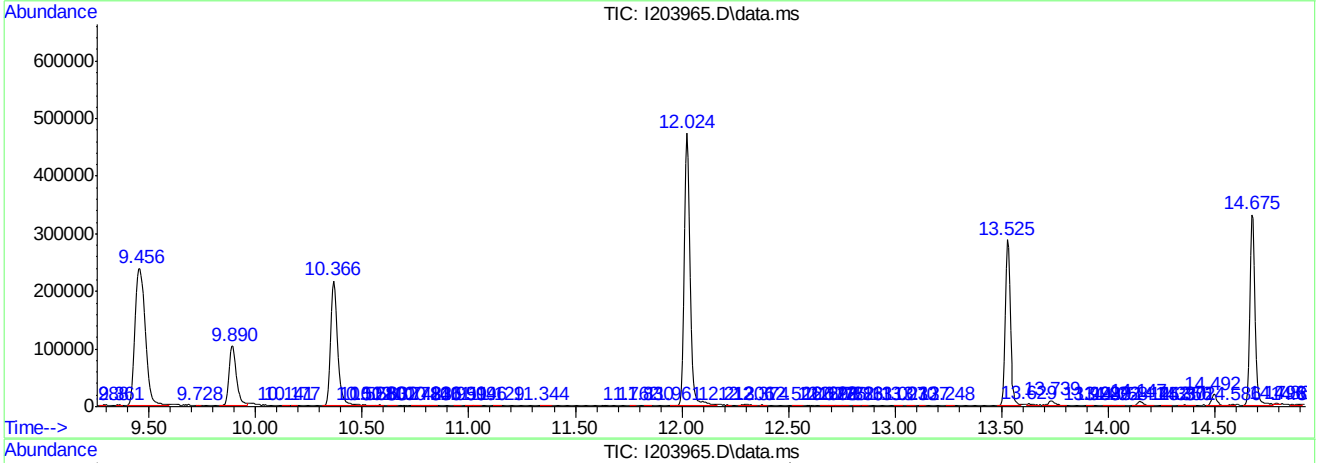
LSC Report - Integrated Chromatogram

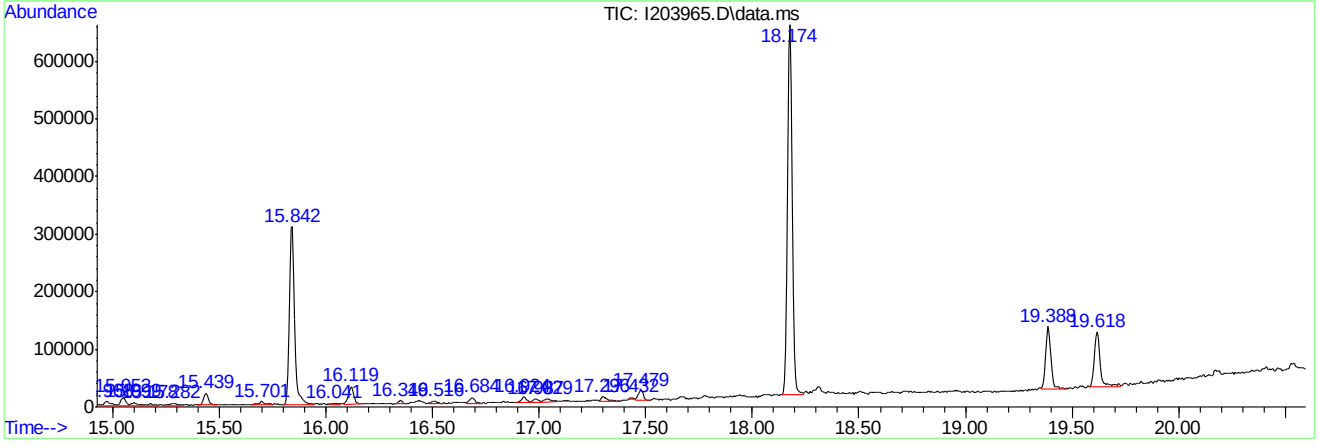
Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203965.D
Acq On : 9 May 2015 7:10 am
Operator : SCOTTM
Sample : JB94209-7
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P







MI8156.M Mon May 11 13:37:31 2015 RPT1 Page: 4

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203965.D
Acq On : 9 May 2015 7:10 am
Operator : SCOTTM
Sample : JB94209-7
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 38 Sample Multiplier: 1

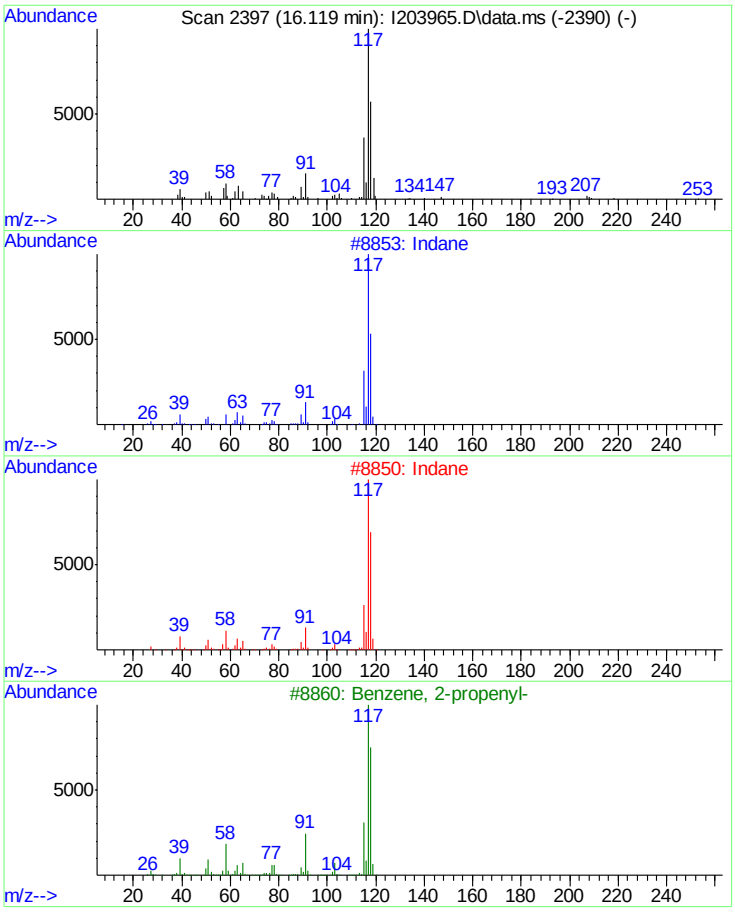
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

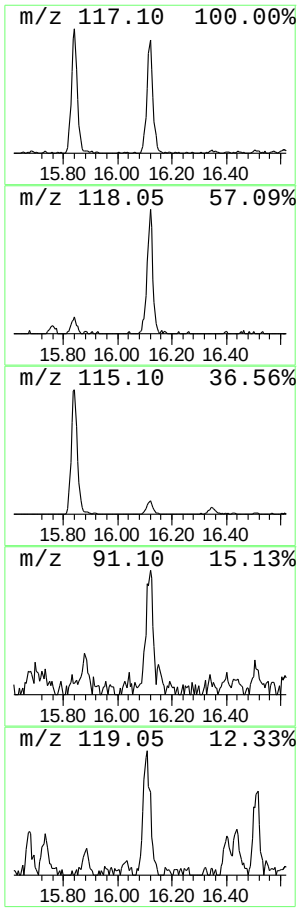
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

****
Peak Number 1 unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.12	5.23 ug/L	54988	1,4-dichlorobenzene-d4	15.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	93
2	Indane	118	C9H10	000496-11-7	93
3	Benzene, 2-propenyl-	118	C9H10	000300-57-2	81
4	Benzene, cyclopropyl-	118	C9H10	000873-49-4	72
5	Tetracyclo[3.3.1.0(2,8).0(4,6)]-...	118	C9H10	1000191-13-7	72





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203965.D
Acq On : 9 May 2015 7:10 am
Operator : SCOTTM
Sample : JB94209-7
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

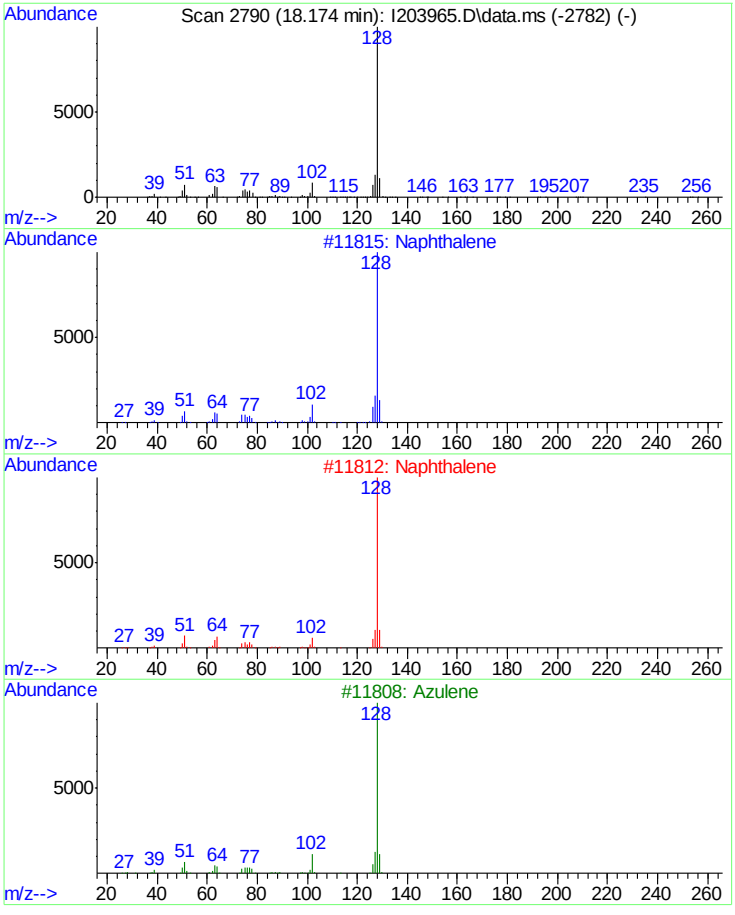
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

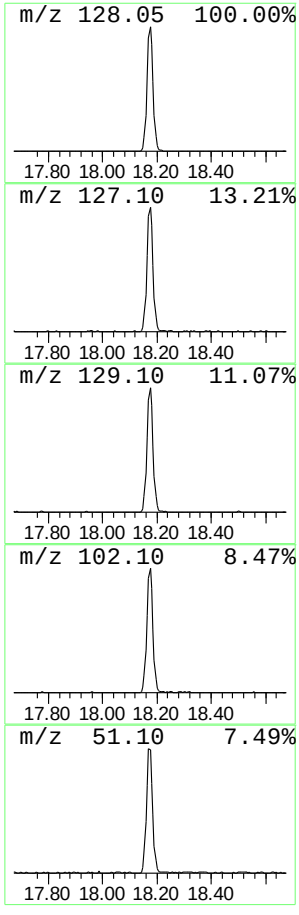
****

Peak Number 2 Naphthalene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.17	94.29 ug/L	991972	1,4-dichlorobenzene-d4	15.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene	128	C10H8	000091-20-3	97
2	Naphthalene	128	C10H8	000091-20-3	95
3	Azulene	128	C10H8	000275-51-4	95
4	Naphthalene	128	C10H8	000091-20-3	91
5	Azulene	128	C10H8	000275-51-4	91





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203965.D
Acq On : 9 May 2015 7:10 am
Operator : SCOTTM
Sample : JB94209-7
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 38 Sample Multiplier: 1

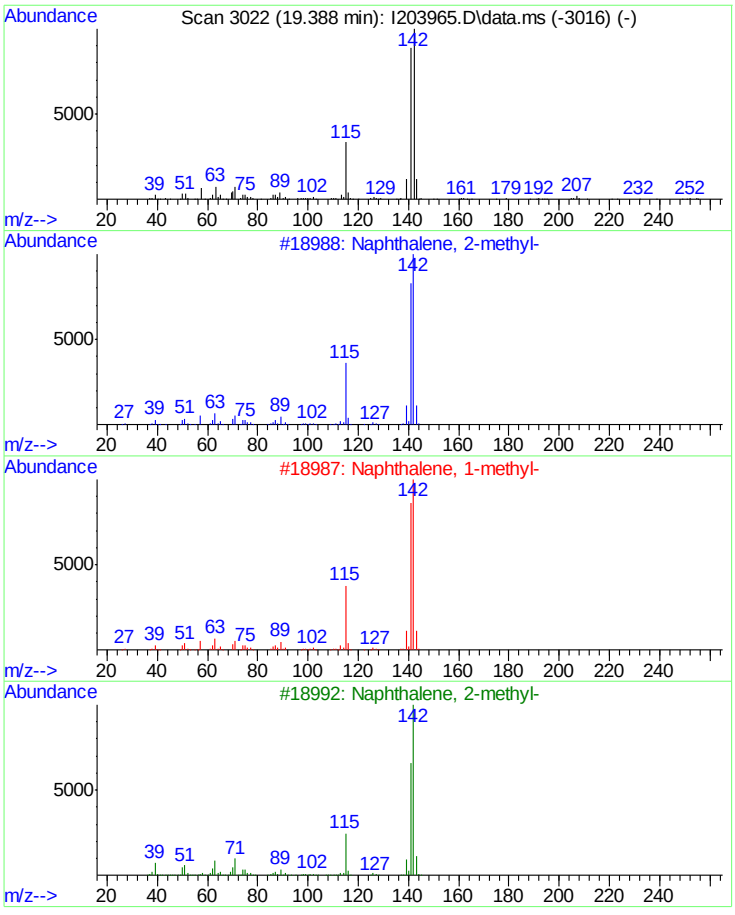
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

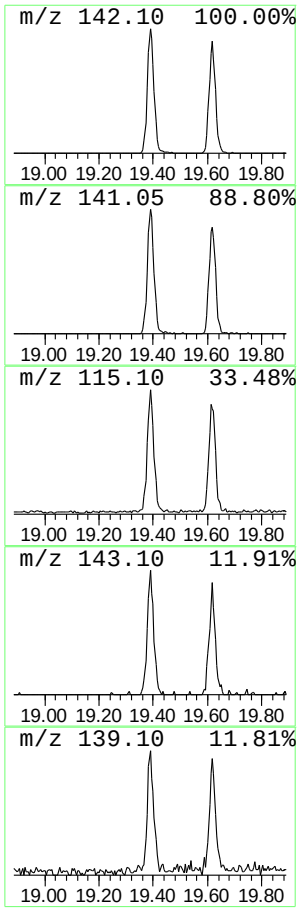
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

****
Peak Number 3 Naphthalene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.39	17.53 ug/L	184399	1,4-dichlorobenzene-d4	15.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	97
2	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	97
3	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	94
4	Benzocycloheptatriene	142	C11H10	000264-09-5	91
5	Benzocycloheptatriene	142	C11H10	000264-09-5	91





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203965.D
Acq On : 9 May 2015 7:10 am
Operator : SCOTTM
Sample : JB94209-7
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

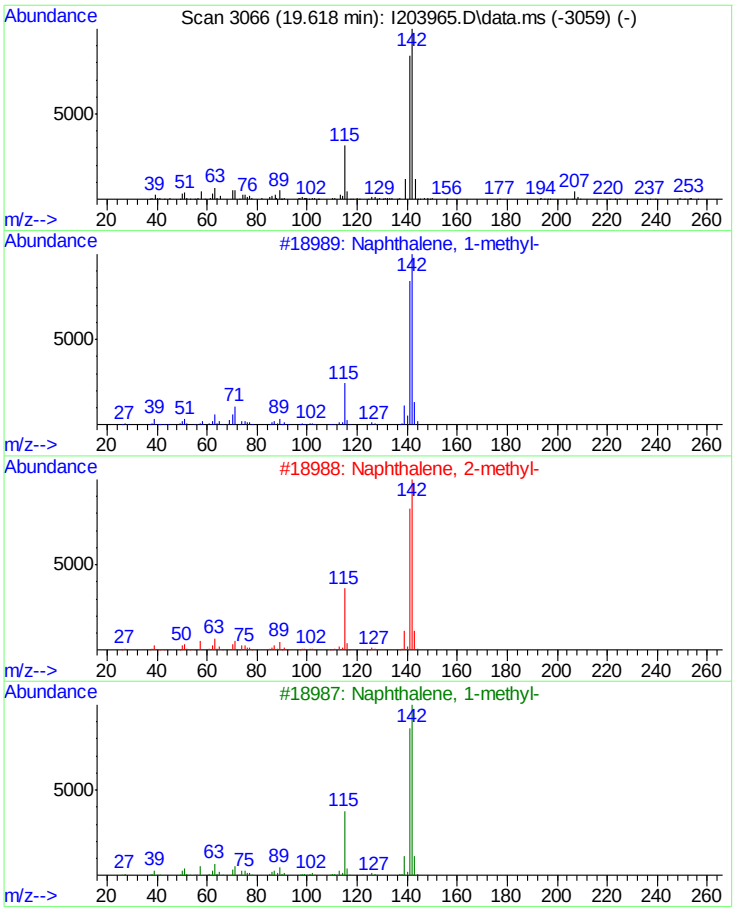
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

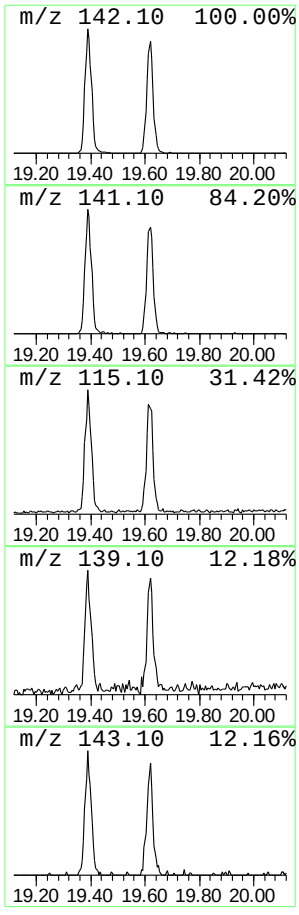
****

Peak Number 4 Naphthalene, 1-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.62	17.59 ug/L	185101	1,4-dichlorobenzene-d4	15.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	94
2	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	94
3	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	94
4	Benzocycloheptatriene	142	C11H10	000264-09-5	91
5	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	91





MI8156.M Mon May 11 13:37:32 2015 RPT1

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203965.D
Acq On : 9 May 2015 7:10 am
Operator : SCOTTM
Sample : JB94209-7
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
unknown	16.12	5.2	ug/L	54988	5	15.84	526015	50.0
Naphthalene	18.17	94.3	ug/L	991972	5	15.84	526015	50.0
Naphthalene, 2-me...	19.39	17.5	ug/L	184399	5	15.84	526015	50.0
Naphthalene, 1-me...	19.62	17.6	ug/L	185101	5	15.84	526015	50.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203966.D
Acq On : 9 May 2015 7:38 am
Operator : SCOTTM
Sample : JB94209-8
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 39 Sample Multiplier: 1

Quant Time: May 11 13:38:16 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 30 09:04:29 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.180	65	64918	500.00	ug/L	-0.02
5) pentafluorobenzene	9.445	168	167211	50.00	ug/L	0.00
48) 1,4-difluorobenzene	10.365	114	199544	50.00	ug/L	0.00
79) chlorobenzene-d5	13.525	117	168061	50.00	ug/L	0.00
94) 1,4-dichlorobenzene-d4	15.842	152	88843	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.471	113	87655	49.84	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.68%			
49) 1,2-dichloroethane-d4...	9.890	65	87835	49.25	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 98.50%			
80) toluene-d8 (s)	12.023	98	322930	46.00	ug/L	0.00
Spiked Amount 50.000	Range 78 - 129		Recovery = 92.00%			
95) 4-bromofluorobenzene (s)	14.675	95	116918	47.52	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 95.04%			
Target Compounds						Qvalue
90) m,p-xylene	13.734	106	1596	0.49	ug/L	74
91) o-xylene	14.147	106	732	0.22	ug/L	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed

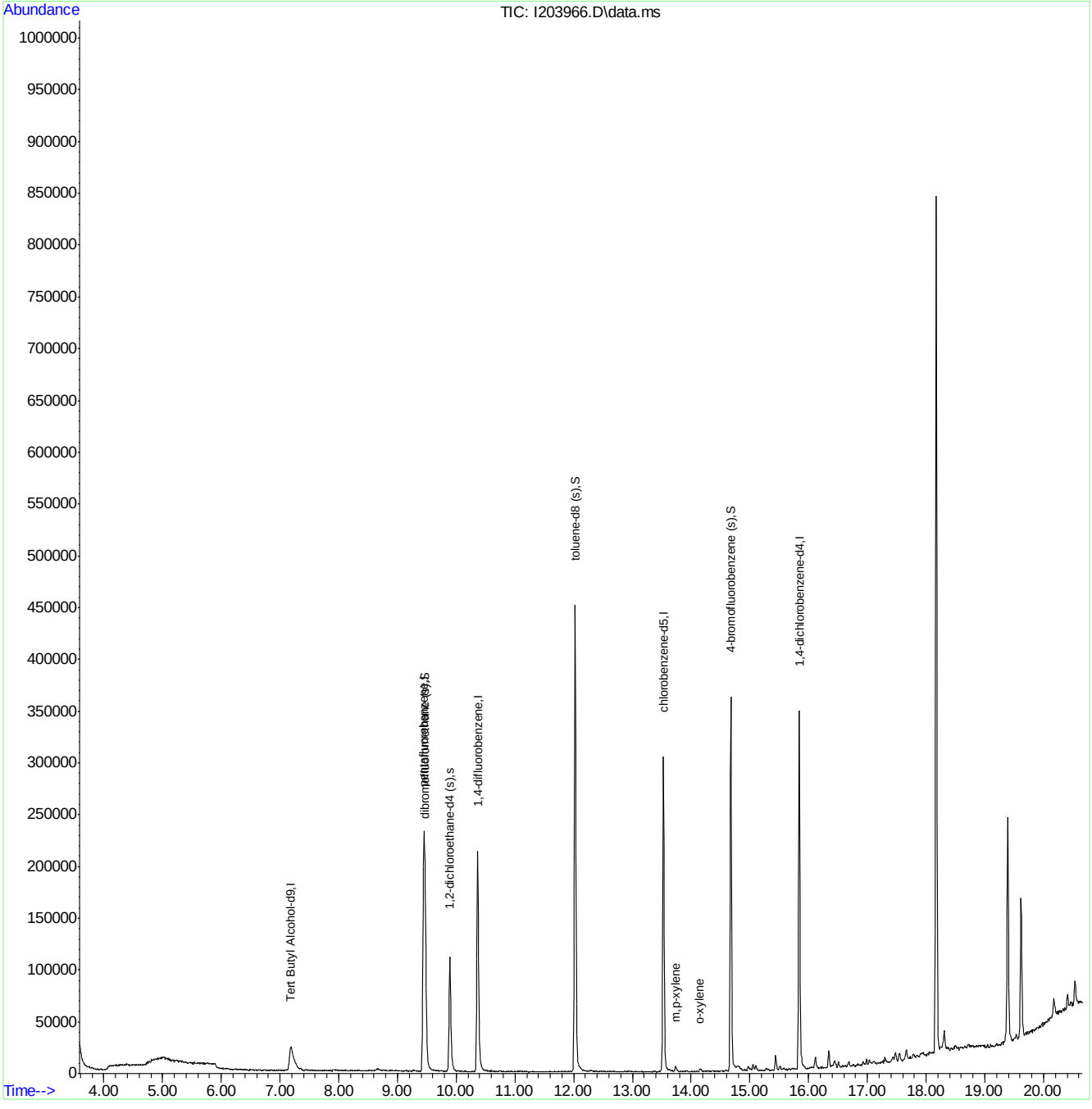
7.1.15

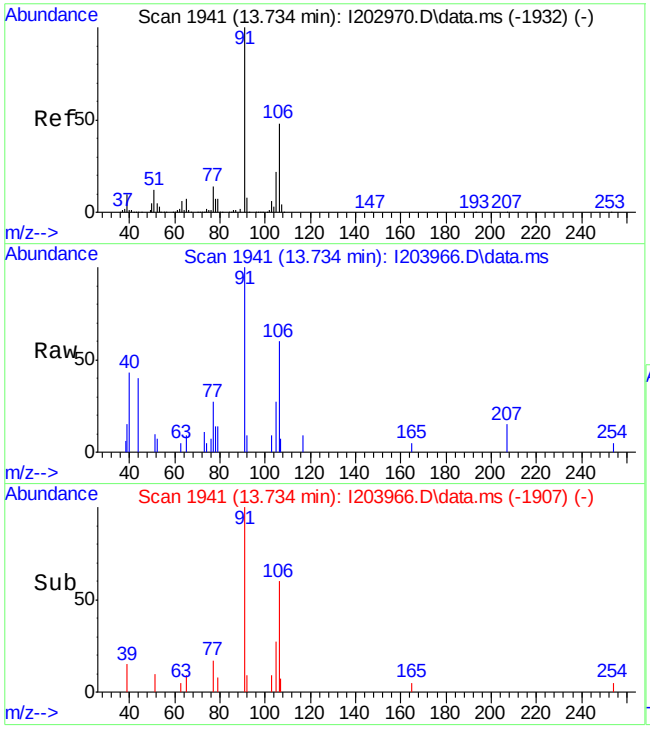
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203966.D
Acq On : 9 May 2015 7:38 am
Operator : SCOTTM
Sample : JB94209-8
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 39 Sample Multiplier: 1

Quant Time: May 11 13:38:16 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 30 09:04:29 2015
Response via : Initial Calibration

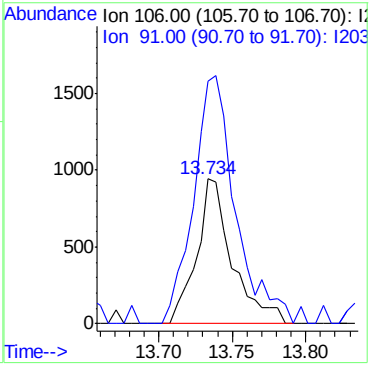


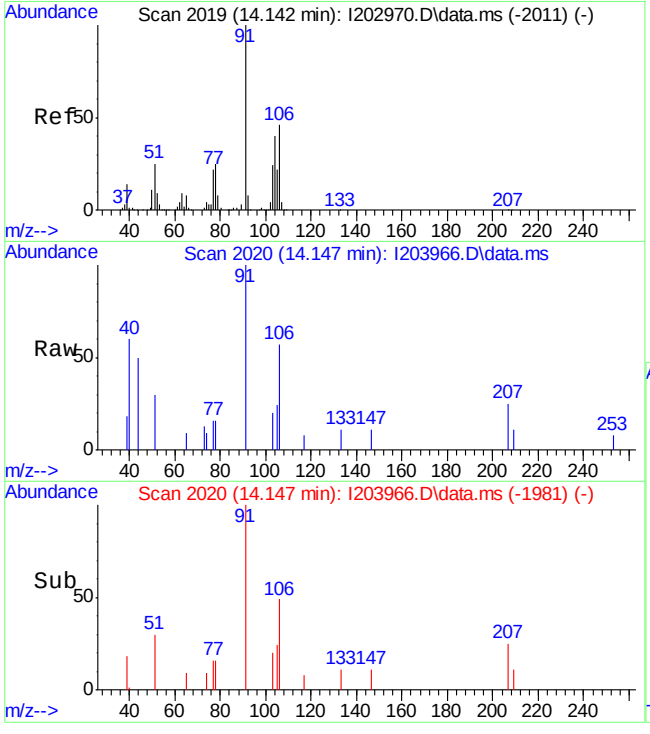


#90
m,p-xylene
Concen: 0.49 ug/L
RT: 13.734 min Scan# 1941
Delta R.T. 0.000 min
Lab File: I203966.D
Acq: 9 May 2015 7:38 am

Tgt Ion:106 Resp: 1596

Ion	Ratio	Lower	Upper
106	100		
91	167.9	145.4	270.0

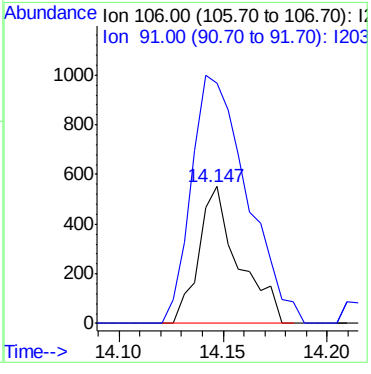




#91
o-xylene
Concen: 0.22 ug/L
RT: 14.147 min Scan# 2020
Delta R.T. 0.005 min
Lab File: I203966.D
Acq: 9 May 2015 7:38 am

Tgt Ion:106 Resp: 732

Ion	Ratio	Lower	Upper
106	100		
91	175.0	152.7	283.7



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203966.D
Acq On : 9 May 2015 7:38 am
Operator : SCOTTM
Sample : JB94209-8
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 39 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 550 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.5 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

Signal : TIC: I20396

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.906	61	62	67	rVB3	1061	1389	0.11%	0.022%
2	3.943	68	69	77	rVB4	1141	1868	0.14%	0.029%
3	4.079	91	95	96	rBV2	2350	2514	0.19%	0.039%
4	6.479	553	554	560	rBV5	1026	1549	0.12%	0.024%
5	6.652	578	587	588	rBV6	1004	2117	0.16%	0.033%
6	6.971	646	648	651	rBV3	1307	1250	0.10%	0.020%
7	7.180	677	688	717	rBV	22866	119218	9.20%	1.868%
8	7.416	731	733	735	rBV3	738	744	0.06%	0.012%
9	7.494	745	748	750	rVB3	1184	820	0.06%	0.013%
10	7.552	757	759	765	rBV4	869	1436	0.11%	0.023%
11	7.855	815	817	822	rVB3	745	698	0.05%	0.011%
12	7.939	824	833	837	rBV7	1755	5076	0.39%	0.080%
13	8.116	866	867	872	rVB4	1219	1378	0.11%	0.022%
14	8.158	872	875	880	rBV4	640	1282	0.10%	0.020%
15	8.205	881	884	888	rVV2	1039	964	0.07%	0.015%
16	8.446	929	930	938	rVB5	623	1341	0.10%	0.021%
17	8.603	958	960	962	rVV2	1062	732	0.06%	0.011%
18	8.660	963	971	981	rVV4	2324	6982	0.54%	0.109%
19	8.843	1003	1006	1010	rVB5	820	944	0.07%	0.015%
20	8.911	1016	1019	1022	rBV3	878	920	0.07%	0.014%
21	9.095	1050	1054	1057	rVB3	749	808	0.06%	0.013%
22	9.115	1057	1058	1062	rBV2	706	741	0.06%	0.012%
23	9.220	1073	1078	1082	rVB2	1344	2180	0.17%	0.034%
24	9.272	1082	1088	1094	rBV5	1597	4109	0.32%	0.064%
25	9.335	1099	1100	1108	rVB5	1087	1903	0.15%	0.030%
26	9.450	1109	1122	1159	rVV2	231993	765514	59.07%	11.998%
27	9.654	1159	1161	1165	rVV3	1203	967	0.07%	0.015%
28	9.696	1166	1169	1172	rVB3	1645	1550	0.12%	0.024%
29	9.722	1172	1174	1180	rBV4	1135	2033	0.16%	0.032%
30	9.890	1194	1206	1228	rBV	110850	244038	18.83%	3.825%
31	10.099	1243	1246	1248	rBV2	874	803	0.06%	0.013%
32	10.162	1255	1258	1261	rVB3	1001	1167	0.09%	0.018%
33	10.188	1261	1263	1266	rBV2	666	719	0.06%	0.011%
34	10.235	1266	1272	1274	rBV4	553	927	0.07%	0.015%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203966.D
Acq On : 9 May 2015 7:38 am
Operator : SCOTTM
Sample : JB94209-8
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 39 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 550 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.5 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

35	10.365	1284	1297	1320	rBV	213426	468064	36.12%	7.336%
36	10.590	1337	1340	1343	rBV4	1403	918	0.07%	0.014%
37	10.637	1346	1349	1354	rBV3	955	1524	0.12%	0.024%
38	10.679	1354	1357	1363	rVB4	749	1081	0.08%	0.017%
39	10.742	1366	1369	1374	rBV2	796	1324	0.10%	0.021%
40	10.894	1396	1398	1403	rVB4	957	814	0.06%	0.013%
41	11.045	1423	1427	1429	rBV4	1160	1000	0.08%	0.016%
42	11.197	1452	1456	1459	rBV3	1336	1207	0.09%	0.019%
43	11.270	1463	1470	1474	rBV2	670	1580	0.12%	0.025%
44	11.401	1493	1495	1501	rBV3	722	1159	0.09%	0.018%
45	11.521	1514	1518	1521	rBV	542	726	0.06%	0.011%
46	11.600	1528	1533	1536	rBV3	679	887	0.07%	0.014%
47	11.710	1551	1554	1557	rBV2	648	769	0.06%	0.012%
48	11.856	1577	1582	1585	rVB3	840	1175	0.09%	0.018%
49	12.023	1601	1614	1638	rBV	450774	852744	65.80%	13.365%
50	12.290	1662	1665	1667	rBV3	976	818	0.06%	0.013%
51	12.395	1684	1685	1691	rBV3	662	929	0.07%	0.015%
52	12.688	1738	1741	1747	rVB3	1189	1522	0.12%	0.024%
53	12.777	1754	1758	1762	rVB4	768	1227	0.09%	0.019%
54	12.829	1765	1768	1770	rVB4	733	716	0.06%	0.011%
55	12.866	1770	1775	1778	rBV3	958	1440	0.11%	0.023%
56	12.913	1783	1784	1788	rBV2	678	849	0.07%	0.013%
57	12.991	1797	1799	1804	rBV3	667	943	0.07%	0.015%
58	13.059	1811	1812	1820	rBV3	673	844	0.07%	0.013%
59	13.117	1820	1823	1826	rVB4	574	669	0.05%	0.010%
60	13.169	1830	1833	1836	rVB	1236	1089	0.08%	0.017%
61	13.195	1836	1838	1841	rBV2	983	1275	0.10%	0.020%
62	13.357	1867	1869	1873	rVB3	904	775	0.06%	0.012%
63	13.383	1873	1874	1879	rVB2	902	965	0.07%	0.015%
64	13.525	1891	1901	1917	rBV	304406	518012	39.97%	8.119%
65	13.734	1934	1941	1953	rVB3	5188	9538	0.74%	0.149%
66	13.854	1963	1964	1968	rVB2	897	746	0.06%	0.012%
67	13.927	1975	1978	1982	rVB4	855	1102	0.09%	0.017%
68	14.147	2013	2020	2030	rVB4	3095	7894	0.61%	0.124%
69	14.225	2030	2035	2037	rBV3	969	1158	0.09%	0.018%
70	14.367	2057	2062	2066	rBV6	910	1381	0.11%	0.022%
71	14.497	2082	2087	2096	rBV6	1237	2814	0.22%	0.044%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203966.D
Acq On : 9 May 2015 7:38 am
Operator : SCOTTM
Sample : JB94209-8
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 39 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 550 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.5 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

72	14.586	2099	2104	2113	rVB7	1214	2959	0.23%	0.046%
73	14.675	2113	2121	2136	rBV	361640	587541	45.34%	9.208%
74	14.973	2173	2178	2183	rBV3	4682	9267	0.72%	0.145%
75	15.057	2188	2194	2197	rVV4	5963	9353	0.72%	0.147%
76	15.099	2197	2202	2212	rVB6	4867	10047	0.78%	0.157%
77	15.277	2232	2236	2243	rBV8	2697	5374	0.41%	0.084%
78	15.376	2253	2255	2260	rVB6	730	1053	0.08%	0.017%
79	15.439	2260	2267	2274	rBV	14936	24217	1.87%	0.380%
80	15.507	2275	2280	2287	rVB8	3422	6707	0.52%	0.105%
81	15.570	2287	2292	2295	rBV6	1822	2629	0.20%	0.041%
82	15.617	2300	2301	2306	rVB4	1903	2119	0.16%	0.033%
83	15.674	2306	2312	2314	rBV4	2119	3128	0.24%	0.049%
84	15.842	2336	2344	2368	rBV	346322	566650	43.73%	8.881%
85	16.119	2390	2397	2407	rVB4	11316	22006	1.70%	0.345%
86	16.344	2434	2440	2446	rBV	16292	26993	2.08%	0.423%
87	16.448	2455	2460	2467	rVB8	7037	13907	1.07%	0.218%
88	16.511	2467	2472	2479	rBV3	5486	8219	0.63%	0.129%
89	16.684	2499	2505	2514	rBV8	5565	12637	0.98%	0.198%
90	16.929	2548	2552	2558	rBV7	3277	4618	0.36%	0.072%
91	16.982	2558	2562	2568	rVB4	5997	8756	0.68%	0.137%
92	17.034	2568	2572	2582	rBV4	4276	10230	0.79%	0.160%
93	17.296	2618	2622	2628	rBV7	5688	9538	0.74%	0.149%
94	17.432	2645	2648	2653	rBV7	3274	5468	0.42%	0.086%
95	17.479	2653	2657	2664	rVB5	8319	15742	1.21%	0.247%
96	17.552	2665	2671	2680	rVB9	8342	19054	1.47%	0.299%
97	17.667	2688	2693	2702	rVB9	8733	15104	1.17%	0.237%
98	18.174	2782	2790	2801	rBV	827147	1295875	100.00%	20.310%
99	19.388	3016	3022	3039	rVB	215937	377218	29.11%	5.912%
100	19.618	3059	3066	3077	rBV	133735	231730	17.88%	3.632%

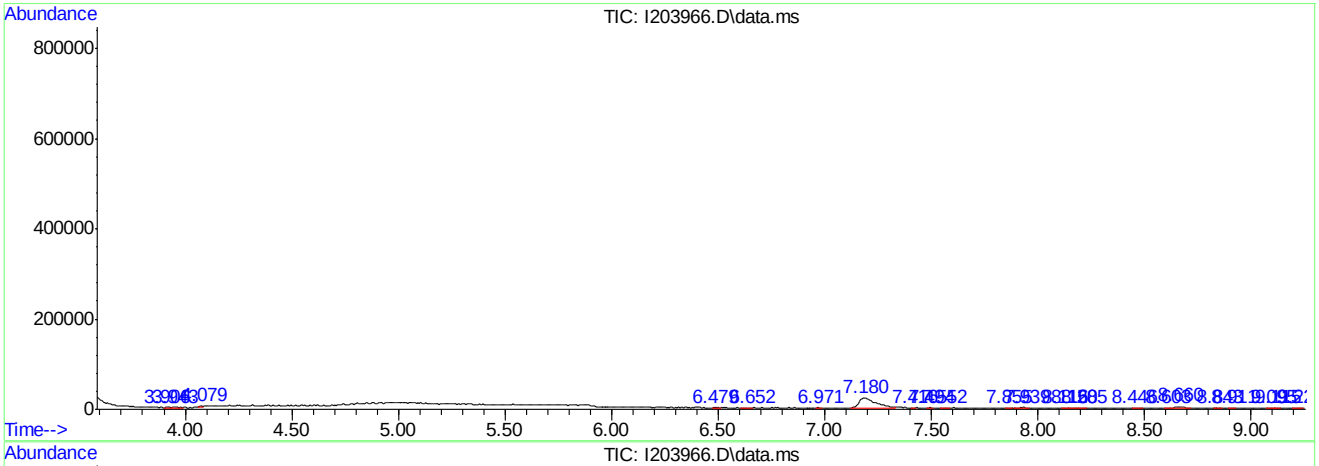
Sum of corrected areas: 6380498

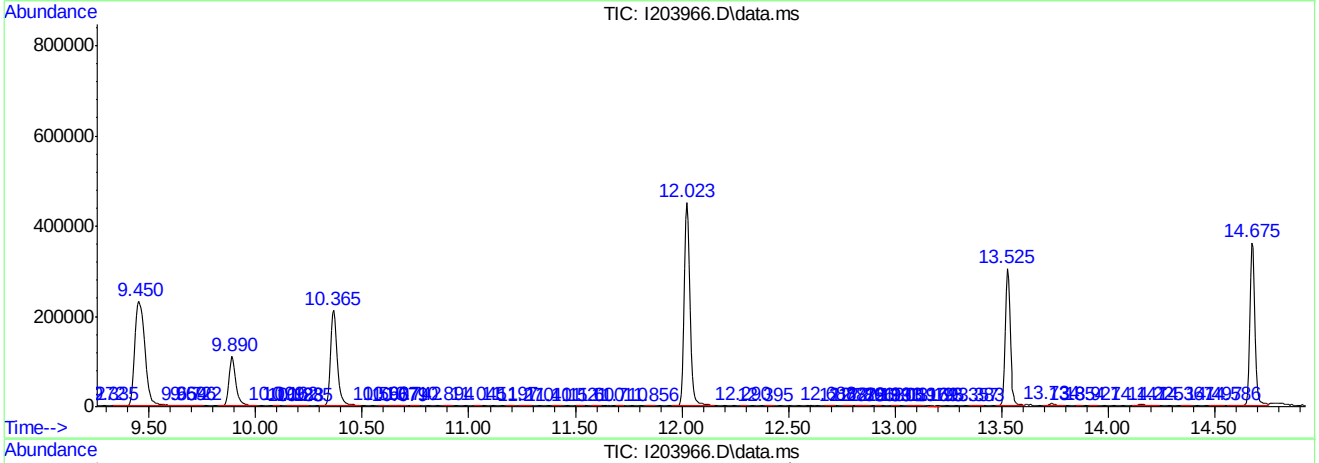
LSC Report - Integrated Chromatogram

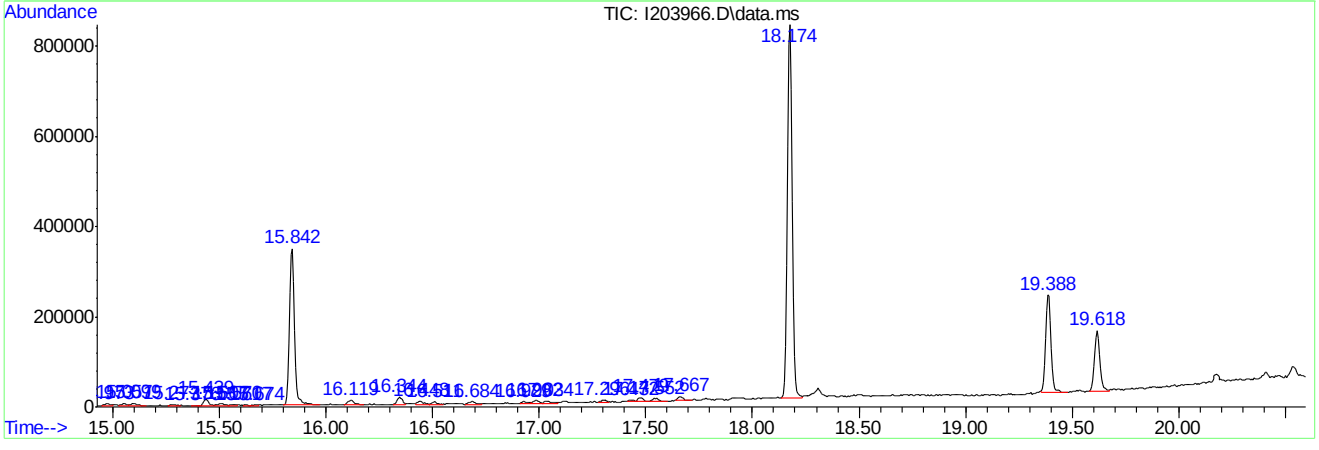
Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203966.D
Acq On : 9 May 2015 7:38 am
Operator : SCOTTM
Sample : JB94209-8
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 39 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P







Library Search Compound Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203966.D
Acq On : 9 May 2015 7:38 am
Operator : SCOTTM
Sample : JB94209-8
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 39 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

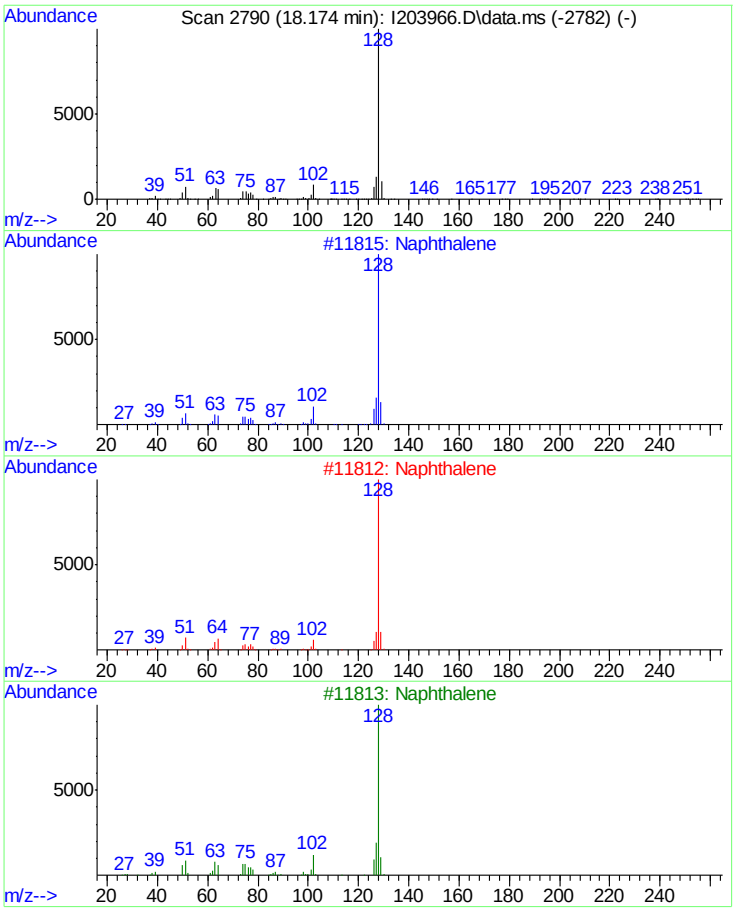
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

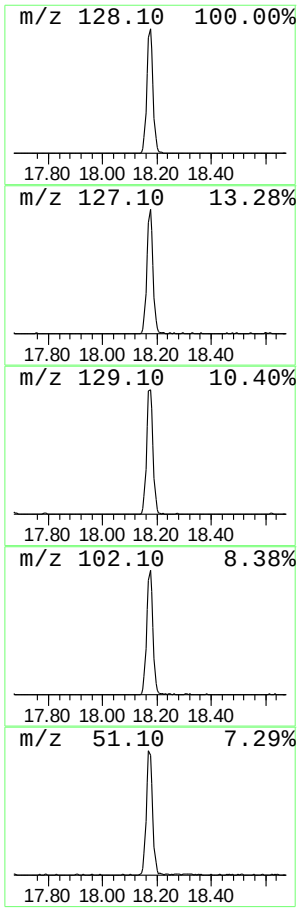
****

Peak Number 1 Naphthalene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.17	114.35 ug/L	1295880	1,4-dichlorobenzene-d4	15.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene	128	C10H8	000091-20-3	97
2	Naphthalene	128	C10H8	000091-20-3	94
3	Naphthalene	128	C10H8	000091-20-3	91
4	Azulene	128	C10H8	000275-51-4	91
5	Azulene	128	C10H8	000275-51-4	91





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203966.D
Acq On : 9 May 2015 7:38 am
Operator : SCOTTM
Sample : JB94209-8
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 39 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

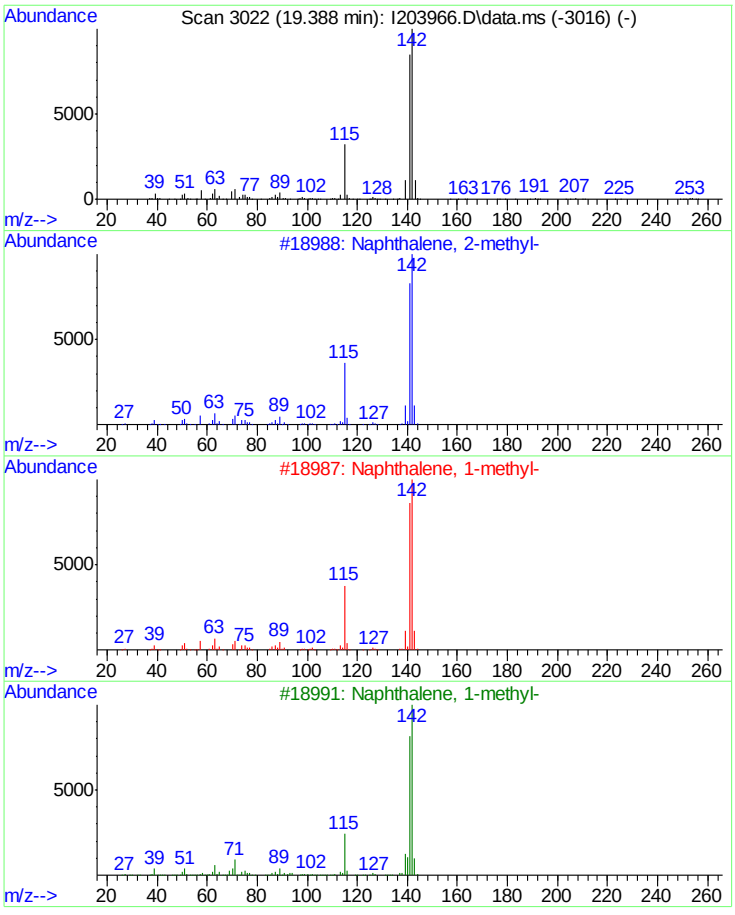
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

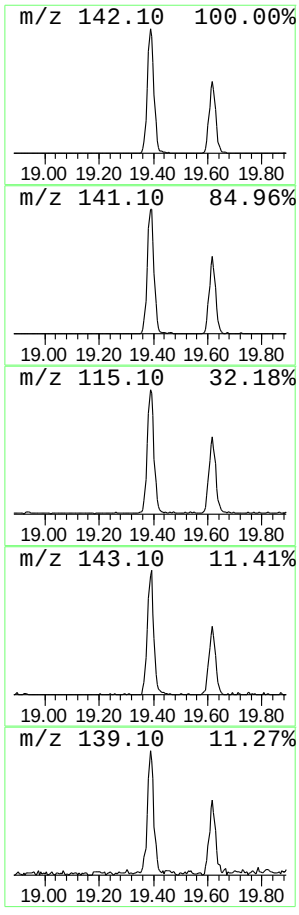
****

Peak Number 2 Naphthalene, -methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.39	33.28 ug/L	377218	1,4-dichlorobenzene-d4	15.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	95
2	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	95
3	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	91
4	Benzocycloheptatriene	142	C11H10	000264-09-5	91
5	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	91





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203966.D
Acq On : 9 May 2015 7:38 am
Operator : SCOTTM
Sample : JB94209-8
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 39 Sample Multiplier: 1

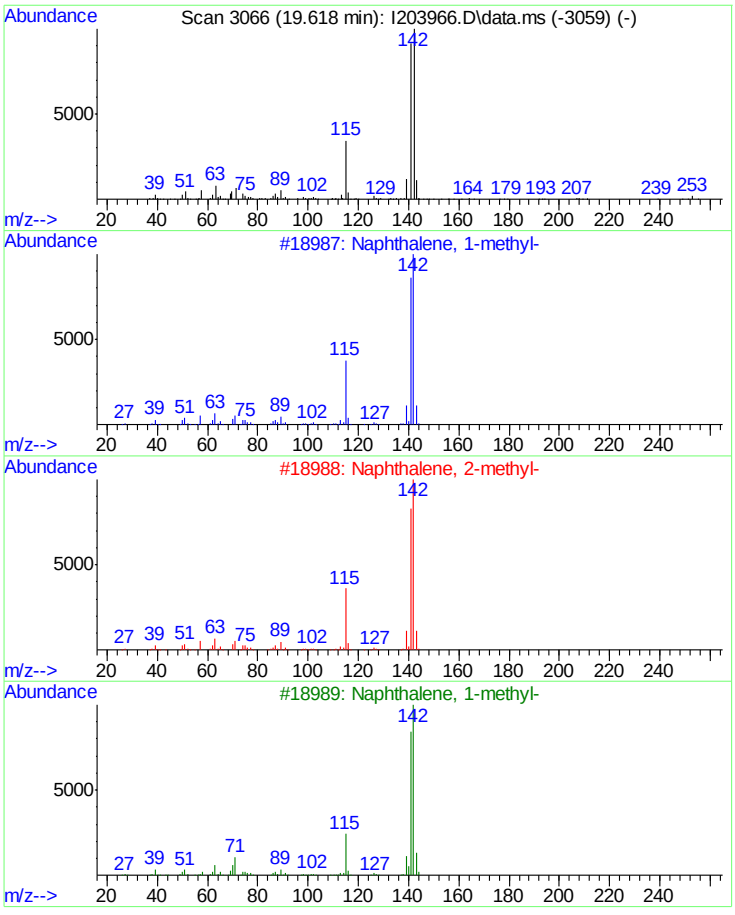
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

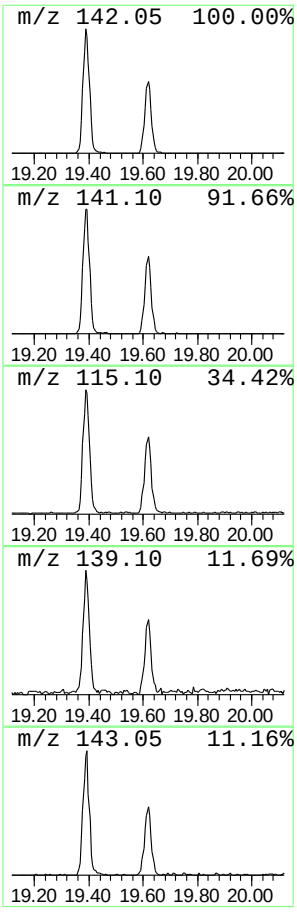
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

****
Peak Number 3 Naphthalene, -methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.62	20.45 ug/L	231730	1,4-dichlorobenzene-d4	15.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	94
2	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	93
3	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	91
4	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	91
5	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	91





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203966.D
Acq On : 9 May 2015 7:38 am
Operator : SCOTTM
Sample : JB94209-8
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 39 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Naphthalene	18.17	114.3	ug/L	1295880	5	15.84	566650	50.0
Naphthalene, -met...	19.39	33.3	ug/L	377218	5	15.84	566650	50.0
Naphthalene, -met...	19.62	20.4	ug/L	231730	5	15.84	566650	50.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8196\
Data File : I203988.D
Acq On : 11 May 2015 3:22 pm
Operator : SCOTTM
Sample : JB94209-9
Misc : MS84864,VI8196,5.0,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 12 10:11:47 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon May 11 11:02:06 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.196	65	119531	500.00	ug/L	0.00
5) pentafluorobenzene	9.450	168	286703	50.00	ug/L	0.00
48) 1,4-difluorobenzene	10.366	114	343663	50.00	ug/L	0.00
79) chlorobenzene-d5	13.530	117	269082	50.00	ug/L	0.00
94) 1,4-dichlorobenzene-d4	15.842	152	120802	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.471	113	154610	51.27	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.54%			
49) 1,2-dichloroethane-d4...	9.895	65	152614	49.68	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 99.36%			
80) toluene-d8 (s)	12.024	98	558192	49.66	ug/L	0.00
Spiked Amount 50.000	Range 78 - 129		Recovery = 99.32%			
95) 4-bromofluorobenzene (s)	14.681	95	179390	53.63	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 107.26%			

Target Compounds

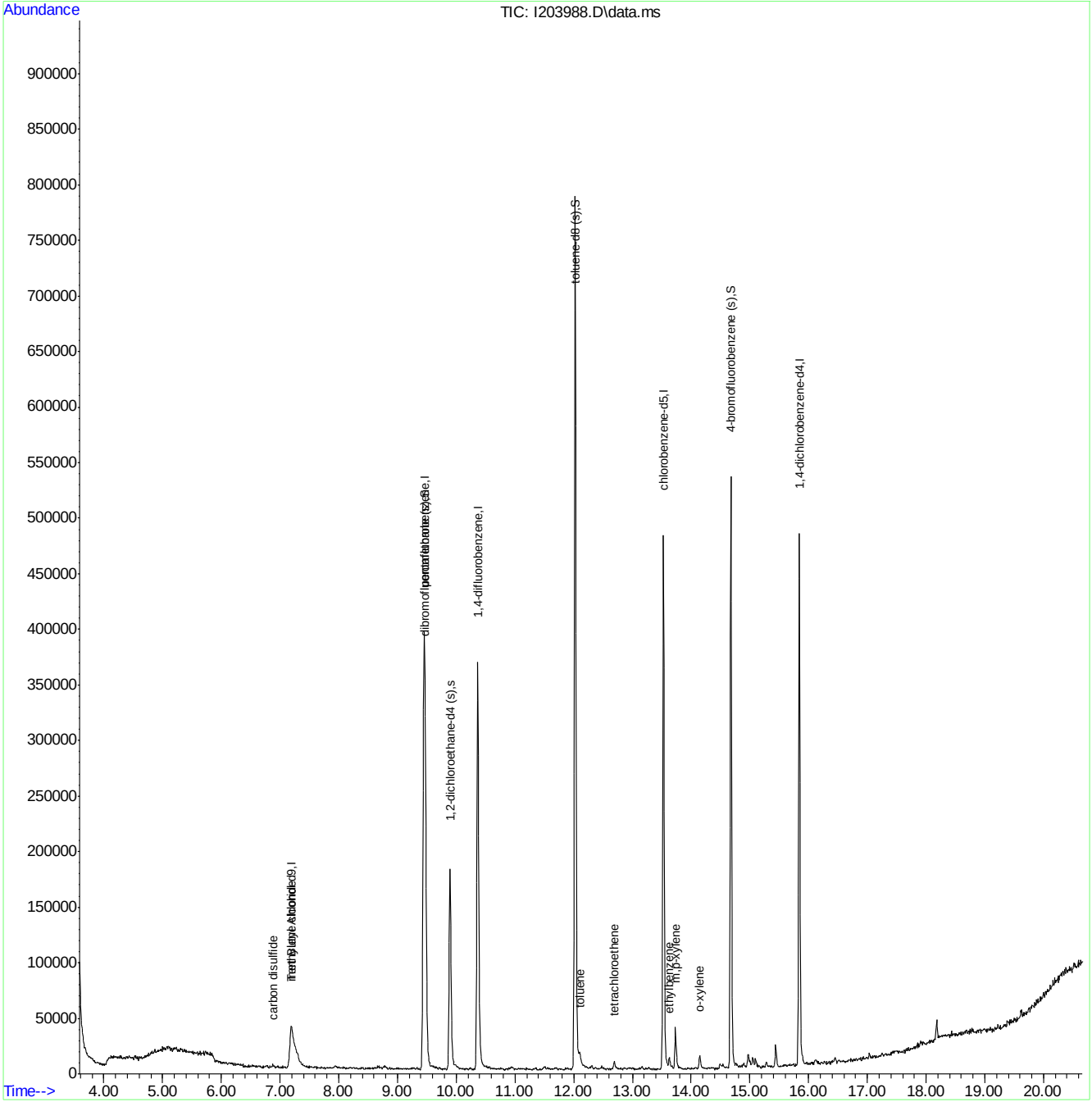
						Qvalue
20) carbon disulfide	6.877	76	3011	0.21	ug/L #	43
24) methylene chloride	7.191	84	6671	1.68	ug/L #	71
73) toluene	12.102	91	8033	0.58	ug/L	99
81) tetrachloroethene	12.693	166	2119	0.72	ug/L	86
89) ethylbenzene	13.629	91	5572	0.39	ug/L	87
90) m,p-xylene	13.739	106	11274	2.18	ug/L	79
91) o-xylene	14.147	106	3603	0.68	ug/L	64

(#) = qualifier out of range (m) = manual integration (+) = signals summed

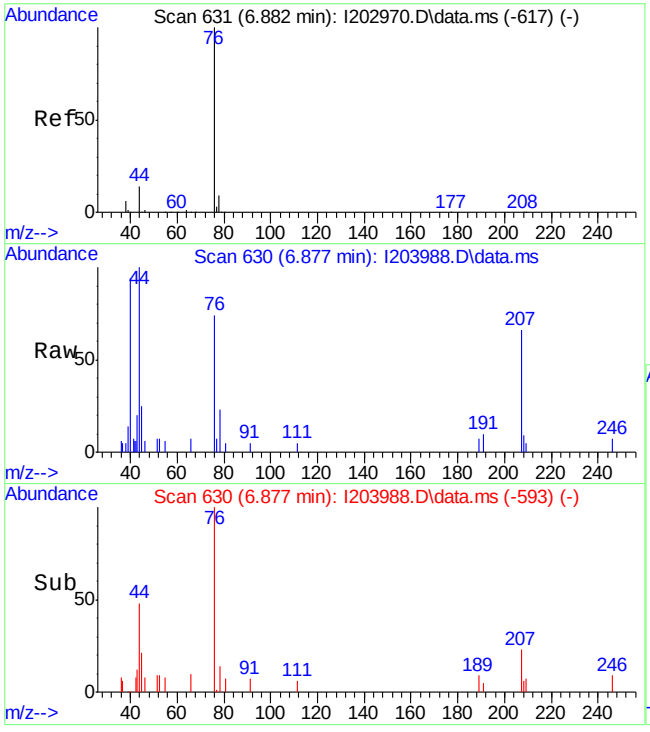
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8196\
Data File : I203988.D
Acq On : 11 May 2015 3:22 pm
Operator : SCOTTM
Sample : JB94209-9
Misc : MS84864,VI8196,5.0,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 12 10:11:47 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon May 11 11:02:06 2015
Response via : Initial Calibration



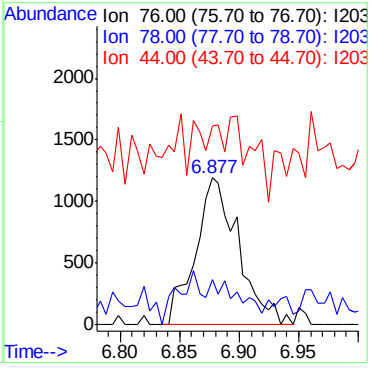
MI8156.M Tue May 12 10:12:05 2015 RPT1 Page: 2

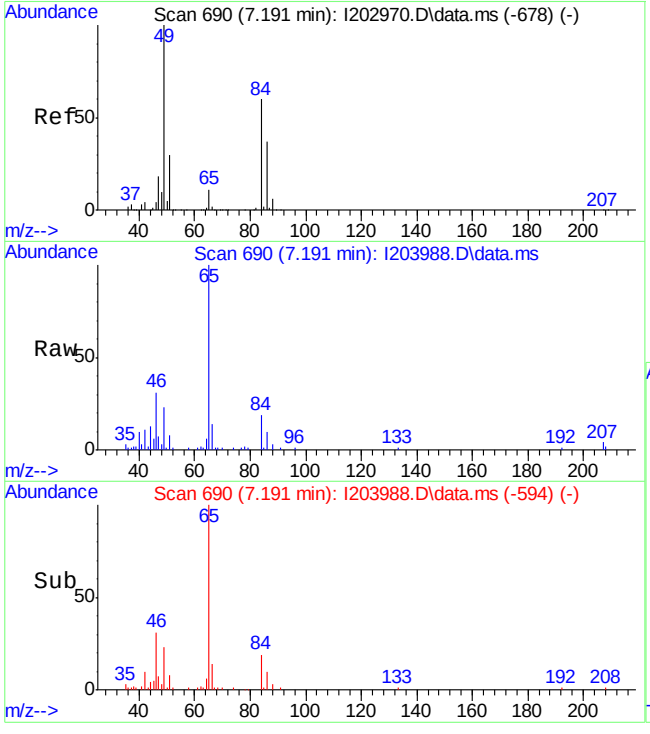


#20
carbon disulfide
Concen: 0.21 ug/L
RT: 6.877 min Scan# 630
Delta R.T. -0.005 min
Lab File: I203988.D
Acq: 11 May 2015 3:22 pm

Tgt Ion: 76 Resp: 3011

Ion	Ratio	Lower	Upper
76	100		
78	42.6	0.0	29.3#
44	0.0	0.0	34.6

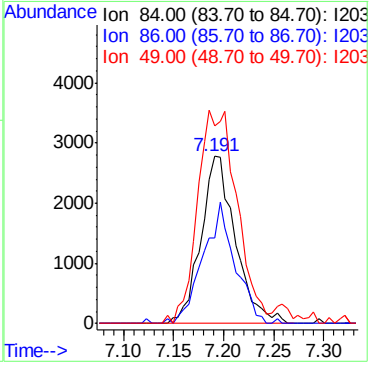


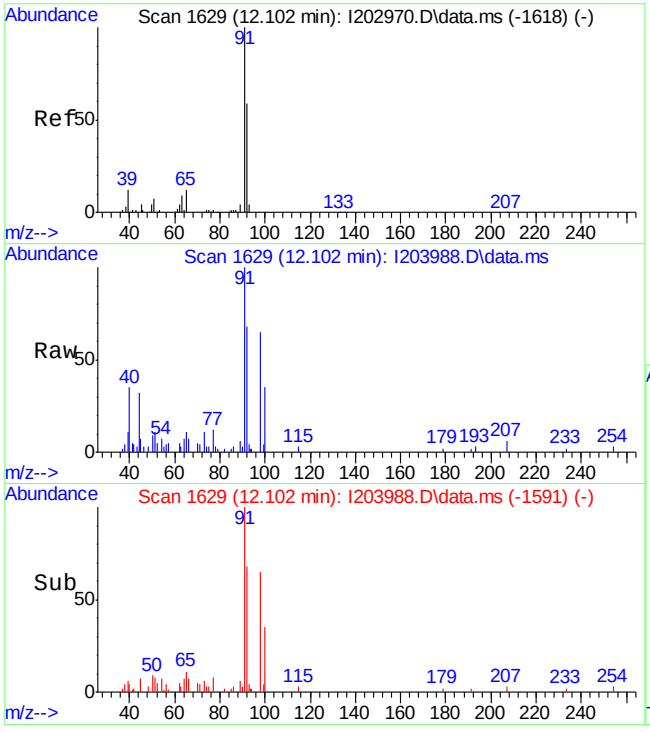


#24
methylene chloride
Concen: 1.68 ug/L
RT: 7.191 min Scan# 690
Delta R.T. 0.000 min
Lab File: I203988.D
Acq: 11 May 2015 3:22 pm

Tgt Ion: 84 Resp: 6671

Ion	Ratio	Lower	Upper
84	100		
86	51.3	32.0	92.0
49	118.1	135.5	195.5#

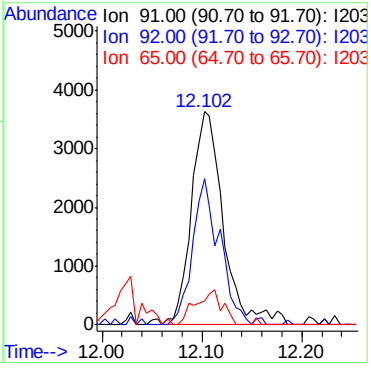


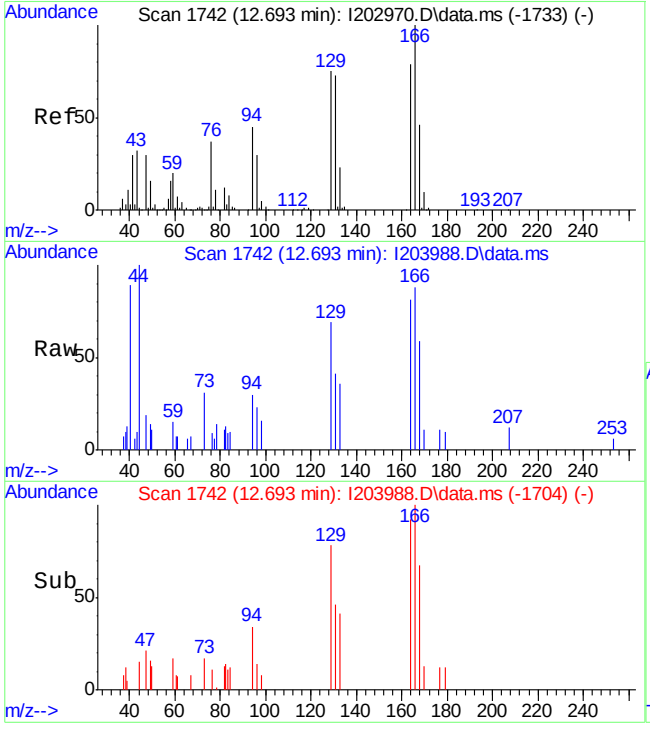


#73
toluene
Concen: 0.58 ug/L
RT: 12.102 min Scan# 1629
Delta R.T. 0.000 min
Lab File: I203988.D
Acq: 11 May 2015 3:22 pm

Tgt Ion: 91 Resp: 8033

Ion	Ratio	Lower	Upper
91	100		
92	58.6	38.7	78.7
65	13.5	0.0	32.5

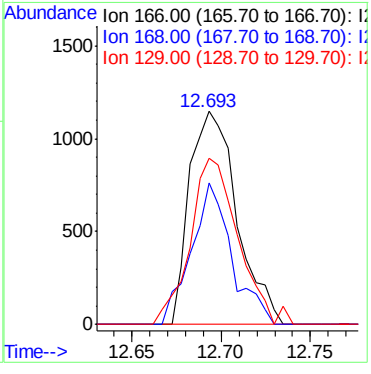


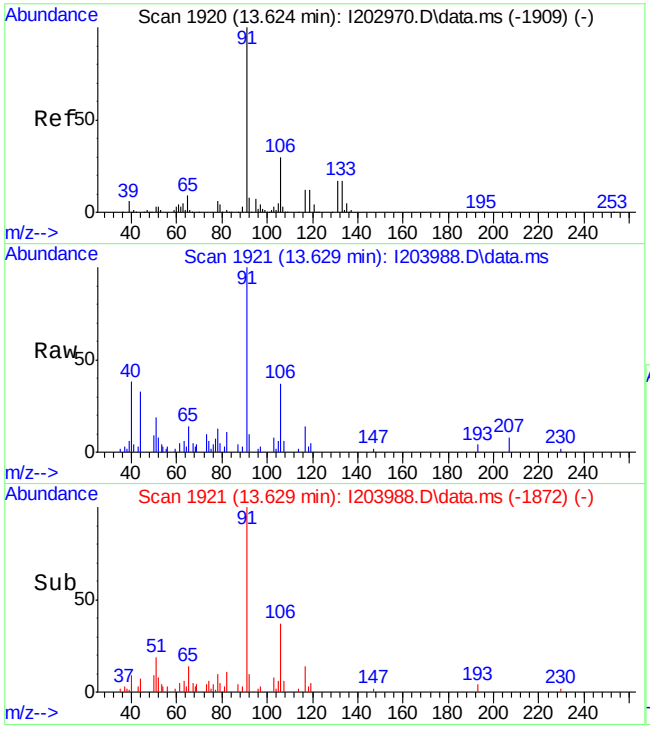


#81
tetrachloroethene
Concen: 0.72 ug/L
RT: 12.693 min Scan# 1742
Delta R.T. 0.000 min
Lab File: I203988.D
Acq: 11 May 2015 3:22 pm

Tgt Ion:166 Resp: 2119

Ion	Ratio	Lower	Upper
166	100		
168	66.6	15.7	75.7
129	78.2	44.9	104.9

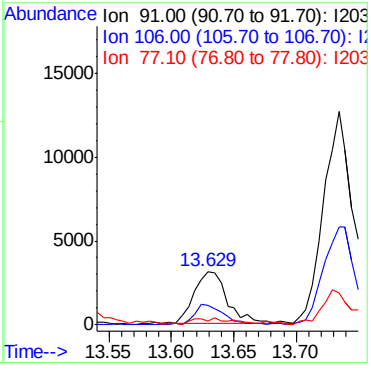


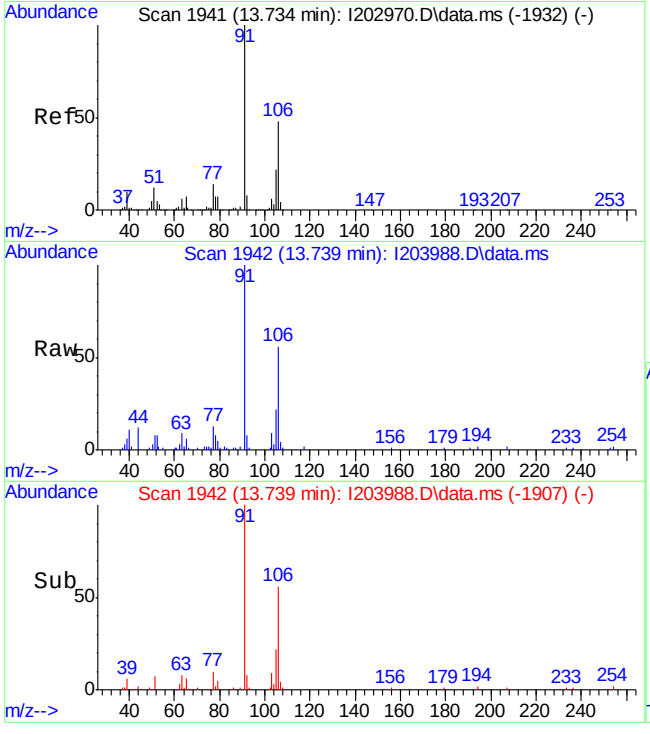


#89
ethylbenzene
Concen: 0.39 ug/L
RT: 13.629 min Scan# 1921
Delta R.T. 0.005 min
Lab File: I203988.D
Acq: 11 May 2015 3:22 pm

Tgt Ion: 91 Resp: 5572

Ion	Ratio	Lower	Upper
91	100		
106	37.9	0.0	59.6
77	7.6	0.0	38.5

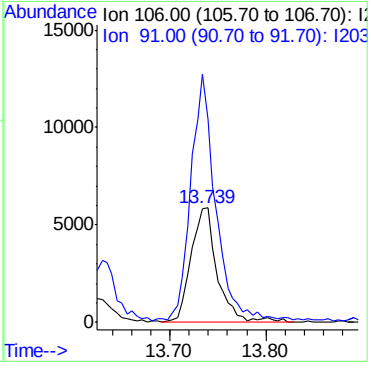


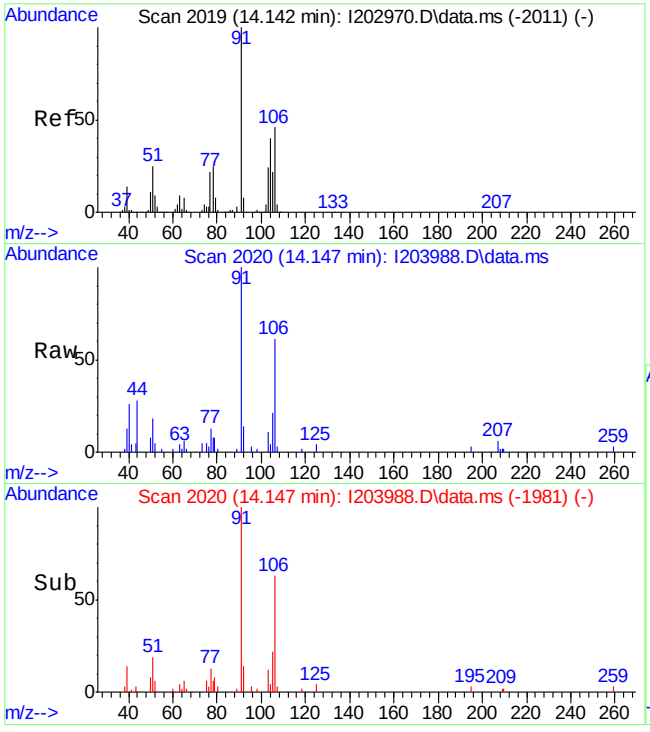


#90
m,p-xylene
Concen: 2.18 ug/L
RT: 13.739 min Scan# 1942
Delta R.T. 0.005 min
Lab File: I203988.D
Acq: 11 May 2015 3:22 pm

Tgt Ion:106 Resp: 11274

Ion	Ratio	Lower	Upper
106	100		
91	175.7	145.4	270.0

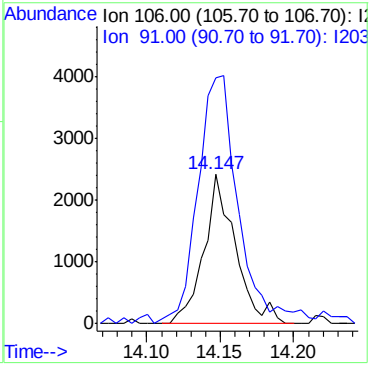




#91
o-xylene
Concen: 0.68 ug/L
RT: 14.147 min Scan# 2020
Delta R.T. 0.005 min
Lab File: I203988.D
Acq: 11 May 2015 3:22 pm

Tgt Ion:106 Resp: 3603

Ion	Ratio	Lower	Upper
106	100		
91	160.2	152.7	283.7



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8196\
Data File : I203988.D
Acq On : 11 May 2015 3:22 pm
Operator : SCOTTM
Sample : JB94209-9
Misc : MS84864,VI8196,5.0,,,,1
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

Signal : TIC: I20398

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.095	84	98	101	rBV8	7037	21555	1.47%	0.295%
2	4.529	176	181	183	rBV3	3640	5175	0.35%	0.071%
3	4.576	188	190	193	rVB4	3898	3562	0.24%	0.049%
4	4.607	193	196	197	rBV2	3448	3161	0.22%	0.043%
5	4.691	210	212	214	rBV3	2562	1843	0.13%	0.025%
6	4.764	224	226	228	rBV3	3592	3105	0.21%	0.042%
7	4.999	269	271	274	rBV4	4871	5188	0.35%	0.071%
8	6.082	475	478	484	rVB7	2743	4098	0.28%	0.056%
9	6.145	484	490	498	rBV9	2027	5717	0.39%	0.078%
10	6.333	523	526	532	rVB7	2910	4301	0.29%	0.059%
11	6.527	560	563	565	rVV3	2187	2053	0.14%	0.028%
12	6.548	565	567	574	rVV5	1376	2546	0.17%	0.035%
13	6.762	600	608	616	rBV6	2473	7492	0.51%	0.102%
14	6.825	616	620	622	rBV3	1816	2171	0.15%	0.030%
15	6.877	622	630	633	rBV6	2987	4760	0.33%	0.065%
16	6.929	639	640	643	rBV3	2218	2075	0.14%	0.028%
17	6.961	643	646	651	rVV5	2258	2815	0.19%	0.038%
18	7.191	673	690	725	rBV4	38009	244313	16.71%	3.338%
19	7.458	740	741	746	rVB5	1839	2207	0.15%	0.030%
20	7.520	750	753	755	rBV4	1777	2159	0.15%	0.029%
21	7.630	773	774	777	rBV3	2122	1835	0.13%	0.025%
22	7.704	785	788	794	rBV7	1696	3119	0.21%	0.043%
23	7.798	801	806	809	rBV5	1503	2627	0.18%	0.036%
24	7.944	821	834	838	rBV10	2650	6326	0.43%	0.086%
25	8.007	843	846	849	rVV3	1824	2077	0.14%	0.028%
26	8.091	861	862	868	rVB3	1987	2619	0.18%	0.036%
27	8.190	879	881	886	rVV4	1517	2003	0.14%	0.027%
28	8.300	899	902	906	rVB5	2014	1947	0.13%	0.027%
29	8.347	906	911	915	rBV3	1336	2504	0.17%	0.034%
30	8.404	919	922	926	rVB4	1739	1968	0.13%	0.027%
31	8.614	958	962	965	rBV6	2254	3052	0.21%	0.042%
32	8.661	965	971	973	rVV5	2313	3024	0.21%	0.041%
33	8.760	986	990	991	rBV3	2199	2086	0.14%	0.029%
34	8.776	991	993	1005	rVB7	3200	7316	0.50%	0.100%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8196\
Data File : I203988.D
Acq On : 11 May 2015 3:22 pm
Operator : SCOTTM
Sample : JB94209-9
Misc : MS84864,VI8196,5.0,,,,1
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

35	9.361	1102	1105	1110	rVB4	1686	1955	0.13%	0.027%
36	9.456	1110	1123	1145	rBV2	394568	1311321	89.70%	17.917%
37	9.895	1196	1207	1239	rBV	180958	449911	30.78%	6.147%
38	10.099	1245	1246	1255	rVB6	2117	4806	0.33%	0.066%
39	10.156	1255	1257	1262	rBV4	1943	3320	0.23%	0.045%
40	10.214	1266	1268	1272	rBV4	1750	2381	0.16%	0.033%
41	10.366	1287	1297	1320	rBV	366983	809110	55.35%	11.055%
42	10.774	1374	1375	1384	rVB5	1641	2366	0.16%	0.032%
43	10.941	1400	1407	1418	rVB9	2824	6868	0.47%	0.094%
44	11.051	1423	1428	1433	rBV3	1552	2592	0.18%	0.035%
45	11.197	1454	1456	1462	rBV5	2139	2734	0.19%	0.037%
46	11.501	1503	1514	1521	rBV9	3191	9904	0.68%	0.135%
47	11.684	1546	1549	1560	rVB8	1911	4447	0.30%	0.061%
48	11.862	1578	1583	1587	rBV6	1975	2753	0.19%	0.038%
49	11.898	1587	1590	1596	rVB7	1665	1837	0.13%	0.025%
50	12.024	1601	1614	1626	rBV	786115	1461930	100.00%	19.974%
51	12.212	1647	1650	1658	rVB8	2210	4101	0.28%	0.056%
52	12.311	1665	1669	1674	rVB6	3430	5344	0.37%	0.073%
53	12.479	1692	1701	1705	rBV6	3670	6638	0.45%	0.091%
54	12.573	1715	1719	1724	rBV5	1693	3184	0.22%	0.044%
55	12.630	1729	1730	1734	rVV4	1686	1918	0.13%	0.026%
56	12.693	1736	1742	1753	rVV8	8326	16527	1.13%	0.226%
57	12.861	1769	1774	1783	rBV7	1738	5302	0.36%	0.072%
58	13.169	1827	1833	1840	rBB8	2337	3662	0.25%	0.050%
59	13.268	1847	1852	1853	rBV2	1750	2059	0.14%	0.028%
60	13.289	1853	1856	1861	rVB4	1849	2462	0.17%	0.034%
61	13.347	1864	1867	1872	rVB5	1555	2706	0.19%	0.037%
62	13.525	1888	1901	1916	rBV	480963	828712	56.69%	11.323%
63	13.629	1916	1921	1929	rVB3	8456	15482	1.06%	0.212%
64	13.734	1934	1941	1951	rVV2	37114	66497	4.55%	0.909%
65	13.823	1957	1958	1966	rVB5	1478	1997	0.14%	0.027%
66	14.069	1998	2005	2012	rBV6	1541	4072	0.28%	0.056%
67	14.147	2012	2020	2032	rBV	12158	24680	1.69%	0.337%
68	14.372	2062	2063	2069	rVB5	2128	2828	0.19%	0.039%
69	14.419	2069	2072	2076	rBV4	1923	2488	0.17%	0.034%
70	14.492	2080	2086	2090	rVV8	4589	7285	0.50%	0.100%
71	14.534	2090	2094	2100	rVB7	3424	5533	0.38%	0.076%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8196\
Data File : I203988.D
Acq On : 11 May 2015 3:22 pm
Operator : SCOTTM
Sample : JB94209-9
Misc : MS84864,VI8196,5.0,,,,1
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

72	14.602	2102	2107	2112	rVB7	1438	2608	0.18%	0.036%
73	14.681	2112	2122	2135	rBV	532387	866223	59.25%	11.835%
74	14.832	2147	2151	2154	rBV6	1604	1938	0.13%	0.026%
75	14.900	2158	2164	2171	rVB6	3747	6479	0.44%	0.089%
76	14.974	2171	2178	2181	rBV4	11760	18851	1.29%	0.258%
77	15.047	2188	2192	2198	rVV	6728	9347	0.64%	0.128%
78	15.094	2198	2201	2208	rVB6	7370	10320	0.71%	0.141%
79	15.157	2212	2213	2219	rVB4	2279	2868	0.20%	0.039%
80	15.277	2232	2236	2242	rBV5	4624	7962	0.54%	0.109%
81	15.439	2261	2267	2277	rVB	20513	32977	2.26%	0.451%
82	15.585	2294	2295	2303	rVB7	2350	4230	0.29%	0.058%
83	15.779	2331	2332	2336	rBV4	2068	2487	0.17%	0.034%
84	15.842	2336	2344	2362	rVV	479339	766894	52.46%	10.478%
85	16.114	2391	2396	2401	rBV7	4061	9239	0.63%	0.126%
86	16.265	2421	2425	2432	rVB10	2994	5610	0.38%	0.077%
87	16.349	2437	2441	2444	rVB5	2338	2649	0.18%	0.036%
88	16.386	2446	2448	2450	rBV2	3324	3205	0.22%	0.044%
89	16.454	2454	2461	2466	rVB6	5581	11353	0.78%	0.155%
90	16.506	2467	2471	2479	rVV9	2087	3916	0.27%	0.054%
91	16.710	2502	2510	2511	rVB7	1888	3847	0.26%	0.053%
92	16.720	2511	2512	2518	rVB5	3128	3301	0.23%	0.045%
93	16.773	2518	2522	2523	rBV4	2476	3004	0.21%	0.041%
94	16.930	2548	2552	2559	rBV10	3561	6926	0.47%	0.095%
95	16.987	2560	2563	2567	rVV5	2295	3584	0.25%	0.049%
96	17.034	2567	2572	2580	rVV5	5829	10148	0.69%	0.139%
97	17.625	2683	2685	2689	rVB5	2933	3618	0.25%	0.049%
98	17.672	2689	2694	2697	rBV4	4828	8445	0.58%	0.115%
99	17.908	2735	2739	2745	rBV7	4773	8677	0.59%	0.119%
100	18.180	2786	2791	2800	rBV3	18573	33847	2.32%	0.462%

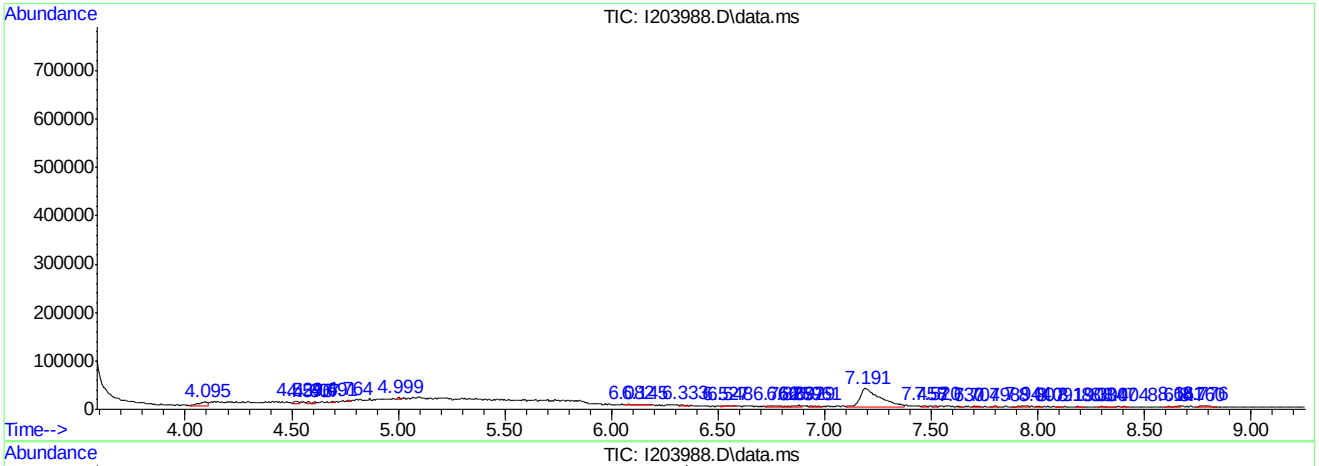
Sum of corrected areas: 7319064

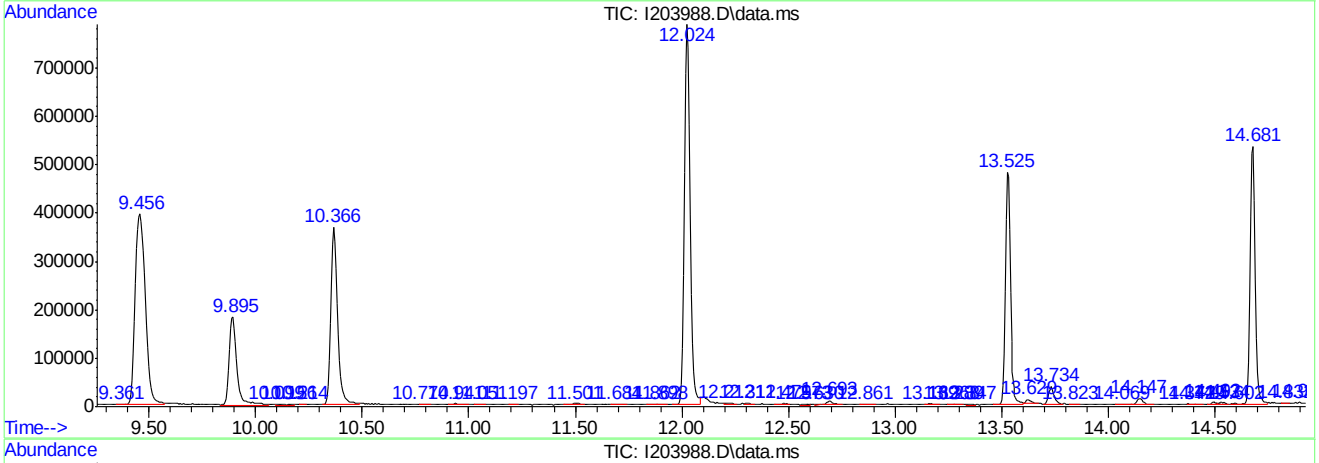
LSC Report - Integrated Chromatogram

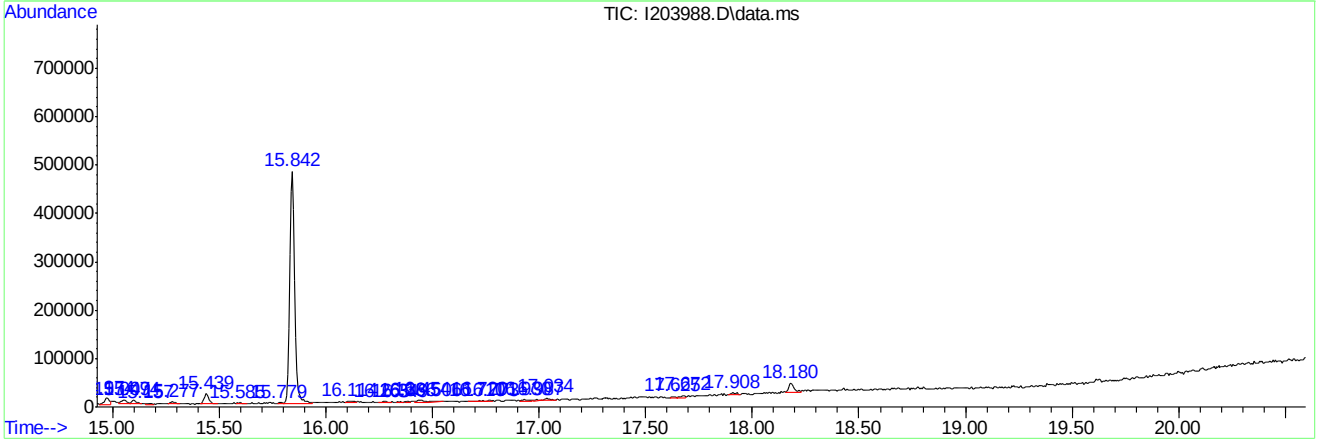
Data Path : C:\msdchem\1\DATA\VI8196\
Data File : I203988.D
Acq On : 11 May 2015 3:22 pm
Operator : SCOTTM
Sample : JB94209-9
Misc : MS84864,VI8196,5.0,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P







Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\VI8196\
Data File : I203988.D
Acq On : 11 May 2015 3:22 pm
Operator : SCOTTM
Sample : JB94209-9
Misc : MS84864,VI8196,5.0,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203968.D
Acq On : 9 May 2015 8:34 am
Operator : SCOTTM
Sample : JB94209-10
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 41 Sample Multiplier: 1

Quant Time: May 11 13:43:08 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 30 09:04:29 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.191	65	55329	500.00	ug/L	0.00
5) pentafluorobenzene	9.445	168	164364	50.00	ug/L	0.00
48) 1,4-difluorobenzene	10.366	114	194126	50.00	ug/L	0.00
79) chlorobenzene-d5	13.525	117	157531	50.00	ug/L	0.00
94) 1,4-dichlorobenzene-d4	15.842	152	81706	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.471	113	84827	49.07	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.14%			
49) 1,2-dichloroethane-d4...	9.890	65	83454	48.10	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 96.20%			
80) toluene-d8 (s)	12.024	98	311433	47.33	ug/L	0.00
Spiked Amount 50.000	Range 78 - 129		Recovery = 94.66%			
95) 4-bromofluorobenzene (s)	14.675	95	109273	48.30	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 96.60%			

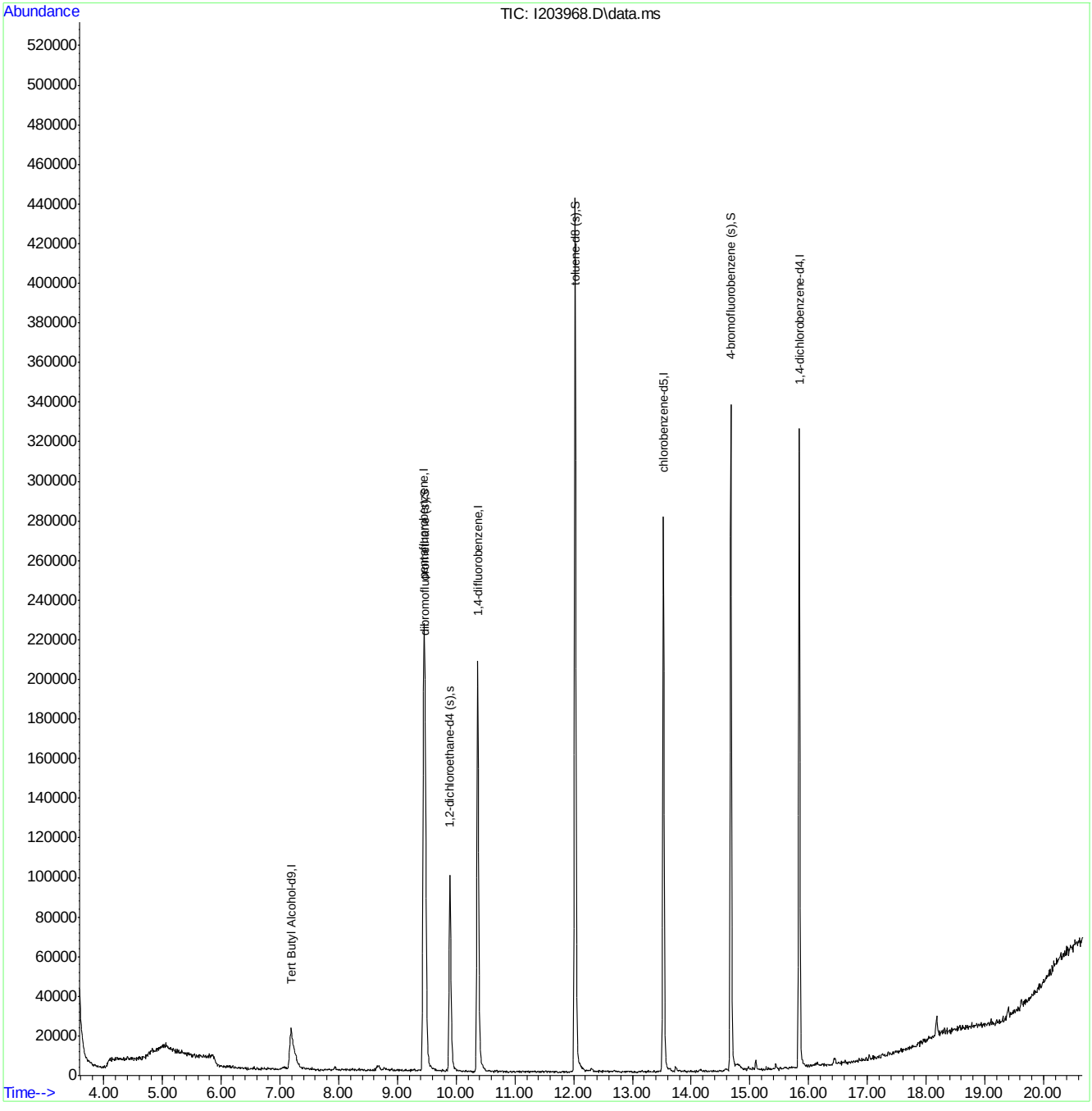
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203968.D
Acq On : 9 May 2015 8:34 am
Operator : SCOTTM
Sample : JB94209-10
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 41 Sample Multiplier: 1

Quant Time: May 11 13:43:08 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 30 09:04:29 2015
Response via : Initial Calibration



MI8156.M Mon May 11 13:49:49 2015 RPT1 Page: 2

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203968.D
Acq On : 9 May 2015 8:34 am
Operator : SCOTTM
Sample : JB94209-10
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 41 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

Signal : TIC: I20396

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.100	90	99	100	rBV5	3683	8301	1.00%	0.203%
2	6.040	468	470	472	rBV3	1192	906	0.11%	0.022%
3	6.454	546	549	551	rBV3	1328	1096	0.13%	0.027%
4	6.558	568	569	574	rVB3	1682	1177	0.14%	0.029%
5	6.610	575	579	583	rVB4	1143	1245	0.15%	0.030%
6	6.793	610	614	619	rBV5	920	1221	0.15%	0.030%
7	6.877	625	630	634	rVB4	645	971	0.12%	0.024%
8	7.191	678	690	727	rVB	20708	105923	12.80%	2.585%
9	7.520	750	753	755	rBV3	940	884	0.11%	0.022%
10	7.609	769	770	772	rBV2	1106	739	0.09%	0.018%
11	7.693	785	786	788	rBV	1286	922	0.11%	0.023%
12	7.751	795	797	800	rBV3	1126	1230	0.15%	0.030%
13	7.829	810	812	815	rBV4	700	749	0.09%	0.018%
14	7.934	827	832	841	rVB7	1885	3990	0.48%	0.097%
15	8.054	852	855	859	rBV4	980	1503	0.18%	0.037%
16	8.143	869	872	877	rBV4	806	1389	0.17%	0.034%
17	8.347	909	911	914	rVB3	1114	871	0.11%	0.021%
18	8.499	938	940	945	rVB4	1023	1012	0.12%	0.025%
19	8.535	945	947	950	rBV4	678	706	0.09%	0.017%
20	8.614	960	962	963	rBV2	1250	639	0.08%	0.016%
21	8.655	965	970	987	rVV7	2656	9777	1.18%	0.239%
22	8.771	989	992	1002	rVV7	1558	4028	0.49%	0.098%
23	8.838	1003	1005	1012	rVB4	1042	1777	0.21%	0.043%
24	8.901	1012	1017	1023	rBV5	1301	2328	0.28%	0.057%
25	8.943	1023	1025	1028	rVB2	839	727	0.09%	0.018%
26	8.964	1028	1029	1033	rBV3	763	816	0.10%	0.020%
27	9.032	1038	1042	1045	rBV3	1146	1263	0.15%	0.031%
28	9.226	1078	1079	1081	rBV2	1143	704	0.09%	0.017%
29	9.278	1084	1089	1097	rBV6	1257	2582	0.31%	0.063%
30	9.450	1111	1122	1159	rBV2	225995	745522	90.06%	18.196%
31	9.764	1179	1182	1186	rBV4	1004	1173	0.14%	0.029%
32	9.890	1198	1206	1231	rVB	99141	229893	27.77%	5.611%
33	10.120	1245	1250	1254	rBV4	751	1281	0.15%	0.031%
34	10.167	1257	1259	1262	rVB3	897	697	0.08%	0.017%

MI8156.M Mon May 11 13:49:35 2015 RPT1 Page: 1

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203968.D
Acq On : 9 May 2015 8:34 am
Operator : SCOTTM
Sample : JB94209-10
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 41 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

35	10.204	1262	1266	1268	rVB3	562	717	0.09%	0.018%
36	10.235	1268	1272	1275	rVB2	479	679	0.08%	0.017%
37	10.266	1275	1278	1280	rVB	753	693	0.08%	0.017%
38	10.366	1283	1297	1325	rBV	207919	457072	55.22%	11.156%
39	10.612	1343	1344	1349	rVB3	615	762	0.09%	0.019%
40	10.659	1349	1353	1356	rBV3	1227	1386	0.17%	0.034%
41	10.685	1356	1358	1360	rVB2	1064	654	0.08%	0.016%
42	10.711	1362	1363	1370	rBV3	860	1287	0.16%	0.031%
43	10.779	1373	1376	1381	rVB2	953	1326	0.16%	0.032%
44	10.816	1381	1383	1388	rVB2	843	1306	0.16%	0.032%
45	10.857	1388	1391	1394	rBV3	1115	1297	0.16%	0.032%
46	11.067	1429	1431	1434	rVB2	705	704	0.09%	0.017%
47	11.098	1434	1437	1439	rBV3	712	682	0.08%	0.017%
48	11.135	1439	1444	1446	rBV2	1030	957	0.12%	0.023%
49	11.197	1453	1456	1458	rBV2	523	635	0.08%	0.015%
50	11.218	1458	1460	1465	rVB2	565	754	0.09%	0.018%
51	11.401	1492	1495	1498	rVB2	823	895	0.11%	0.022%
52	11.433	1498	1501	1504	rBV	1108	985	0.12%	0.024%
53	11.454	1504	1505	1509	rVV2	1044	961	0.12%	0.023%
54	11.516	1513	1517	1523	rVV5	888	1704	0.21%	0.042%
55	11.579	1527	1529	1532	rVV2	977	900	0.11%	0.022%
56	11.647	1539	1542	1546	rVV3	566	755	0.09%	0.018%
57	11.694	1549	1551	1553	rBV3	807	687	0.08%	0.017%
58	11.788	1565	1569	1571	rBV3	602	678	0.08%	0.017%
59	11.966	1598	1603	1605	rVV2	700	783	0.09%	0.019%
60	12.024	1605	1614	1646	rVV	441488	827802	100.00%	20.204%
61	12.207	1646	1649	1653	rVV3	1251	1899	0.23%	0.046%
62	12.254	1656	1658	1659	rVV2	1096	739	0.09%	0.018%
63	12.301	1663	1667	1674	rVV5	1841	4100	0.50%	0.100%
64	12.395	1681	1685	1687	rBV2	647	774	0.09%	0.019%
65	12.432	1691	1692	1698	rBV3	1159	1539	0.19%	0.038%
66	12.568	1715	1718	1721	rVB2	673	801	0.10%	0.020%
67	12.688	1737	1741	1744	rBV5	913	915	0.11%	0.022%
68	12.834	1765	1769	1772	rBV3	576	704	0.09%	0.017%
69	12.986	1794	1798	1800	rVB3	1136	1252	0.15%	0.031%
70	13.033	1804	1807	1809	rBV3	689	666	0.08%	0.016%
71	13.164	1829	1832	1839	rVB3	950	639	0.08%	0.016%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203968.D
Acq On : 9 May 2015 8:34 am
Operator : SCOTTM
Sample : JB94209-10
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 41 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

72	13.253	1846	1849	1851	rBV3	881	958	0.12%	0.023%
73	13.368	1868	1871	1878	rVB4	1140	1400	0.17%	0.034%
74	13.478	1887	1892	1893	rBV3	679	797	0.10%	0.019%
75	13.525	1893	1901	1931	rVV	280062	490867	59.30%	11.981%
76	13.734	1936	1941	1950	rBV5	3046	6171	0.75%	0.151%
77	13.870	1962	1967	1968	rBV5	777	864	0.10%	0.021%
78	13.943	1979	1981	1984	rVB3	863	697	0.08%	0.017%
79	13.975	1984	1987	1990	rBV3	839	892	0.11%	0.022%
80	14.058	1998	2003	2006	rVB4	832	1288	0.16%	0.031%
81	14.090	2006	2009	2011	rBV3	1127	680	0.08%	0.017%
82	14.158	2015	2022	2029	rVV6	1479	3261	0.39%	0.080%
83	14.346	2052	2058	2060	rVB4	524	819	0.10%	0.020%
84	14.377	2060	2064	2066	rBV4	863	856	0.10%	0.021%
85	14.576	2099	2102	2114	rVB8	1198	3460	0.42%	0.084%
86	14.675	2114	2121	2135	rBV	336731	545667	65.92%	13.318%
87	14.974	2172	2178	2182	rBV6	2022	3657	0.44%	0.089%
88	15.047	2190	2192	2198	rBV3	1544	2267	0.27%	0.055%
89	15.099	2198	2202	2216	rVV5	5281	9784	1.18%	0.239%
90	15.198	2220	2221	2225	rVB3	1336	1134	0.14%	0.028%
91	15.277	2233	2236	2240	rBV2	2147	2195	0.27%	0.054%
92	15.314	2240	2243	2246	rBV5	1197	717	0.09%	0.018%
93	15.439	2263	2267	2274	rVB9	2596	4224	0.51%	0.103%
94	15.518	2280	2282	2287	rBV4	916	1387	0.17%	0.034%
95	15.842	2335	2344	2366	rBV	322889	521988	63.06%	12.740%
96	16.124	2396	2398	2400	rBV2	1640	1336	0.16%	0.033%
97	16.433	2455	2457	2466	rVB9	2867	4666	0.56%	0.114%
98	16.862	2536	2539	2547	rBV9	2028	4262	0.51%	0.104%
99	17.029	2568	2571	2579	rBV9	3061	5003	0.60%	0.122%
100	18.180	2787	2791	2799	rVB3	9756	16706	2.02%	0.408%

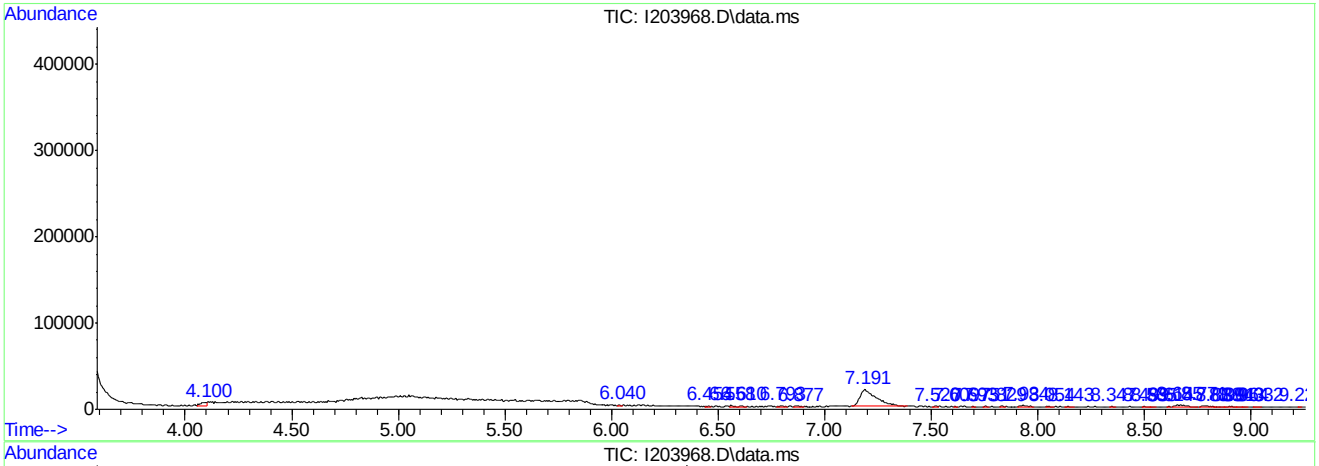
Sum of corrected areas: 4097134

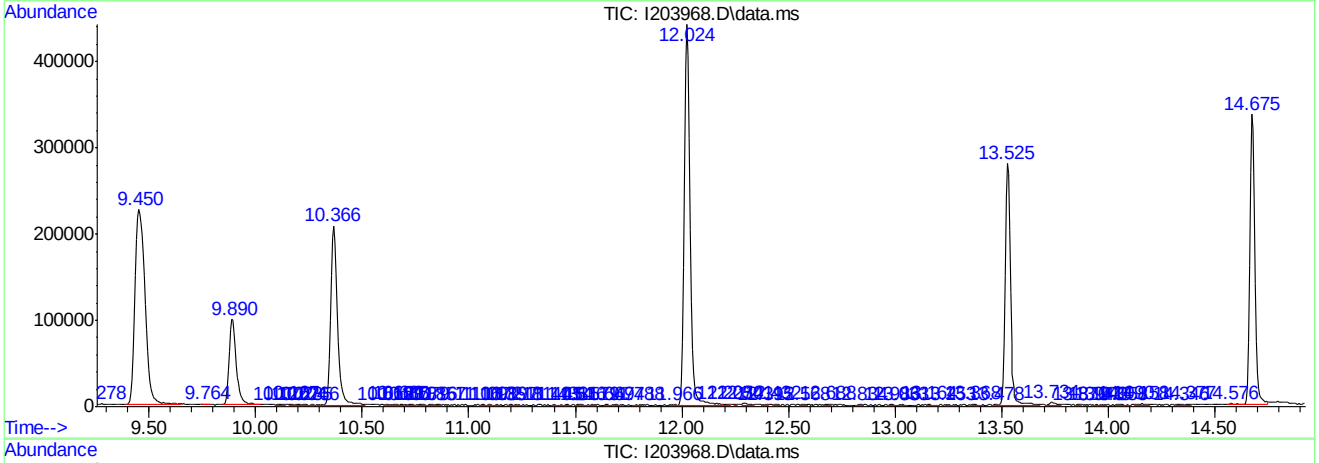
LSC Report - Integrated Chromatogram

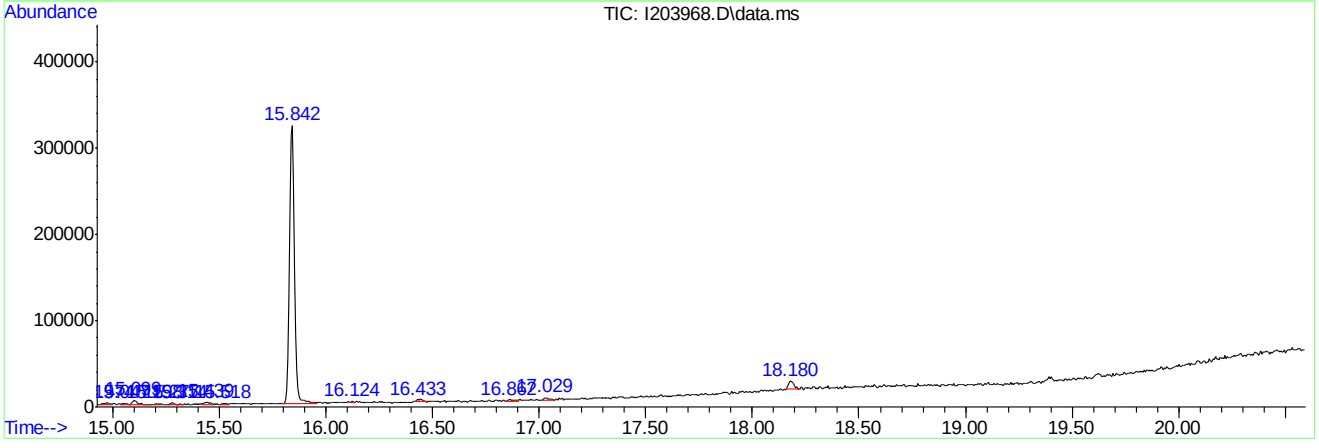
Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203968.D
Acq On : 9 May 2015 8:34 am
Operator : SCOTTM
Sample : JB94209-10
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 41 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P







Tentatively Identified Compound (LSC) summary

```
  Data Path : C:\msdchem\1\DATA\VI8195\
  Data File : I203968.D
  Acq On    :  9 May 2015   8:34 am
  Operator  : SCOTTM
  Sample    : JB94209-10
  Misc      : MS84864,VI8195,5.0,,,,1
  ALS Vial  : 41   Sample Multiplier: 1

  Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
  Quant Title  : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

  TIC Library   : C:\Database\NIST08.L
  TIC Integration Parameters: LSCINT2.P

                                                   |--Internal Standard---|
  TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------
```

No Library Search Compounds Detected
****

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 05/12/15 03:52

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203969.D
Acq On : 9 May 2015 9:02 am
Operator : SCOTTM
Sample : JB94209-11
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 42 Sample Multiplier: 1

Quant Time: May 11 13:50:38 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 30 09:04:29 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.186	65	63543	500.00	ug/L	-0.01
5) pentafluorobenzene	9.445	168	164102	50.00	ug/L	0.00
48) 1,4-difluorobenzene	10.366	114	193253	50.00	ug/L	0.00
79) chlorobenzene-d5	13.525	117	169239	50.00	ug/L	0.00
94) 1,4-dichlorobenzene-d4	15.842	152	85837	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.471	113	84988	49.24	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.48%			
49) 1,2-dichloroethane-d4...	9.890	65	85804	49.68	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 99.36%			
80) toluene-d8 (s)	12.024	98	320253	45.30	ug/L	0.00
Spiked Amount 50.000	Range 78 - 129		Recovery = 90.60%			
95) 4-bromofluorobenzene (s)	14.675	95	114367	48.11	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 96.22%			

Target Compounds						Qvalue
21) methyl acetate	7.029	74	1162m	5.76	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

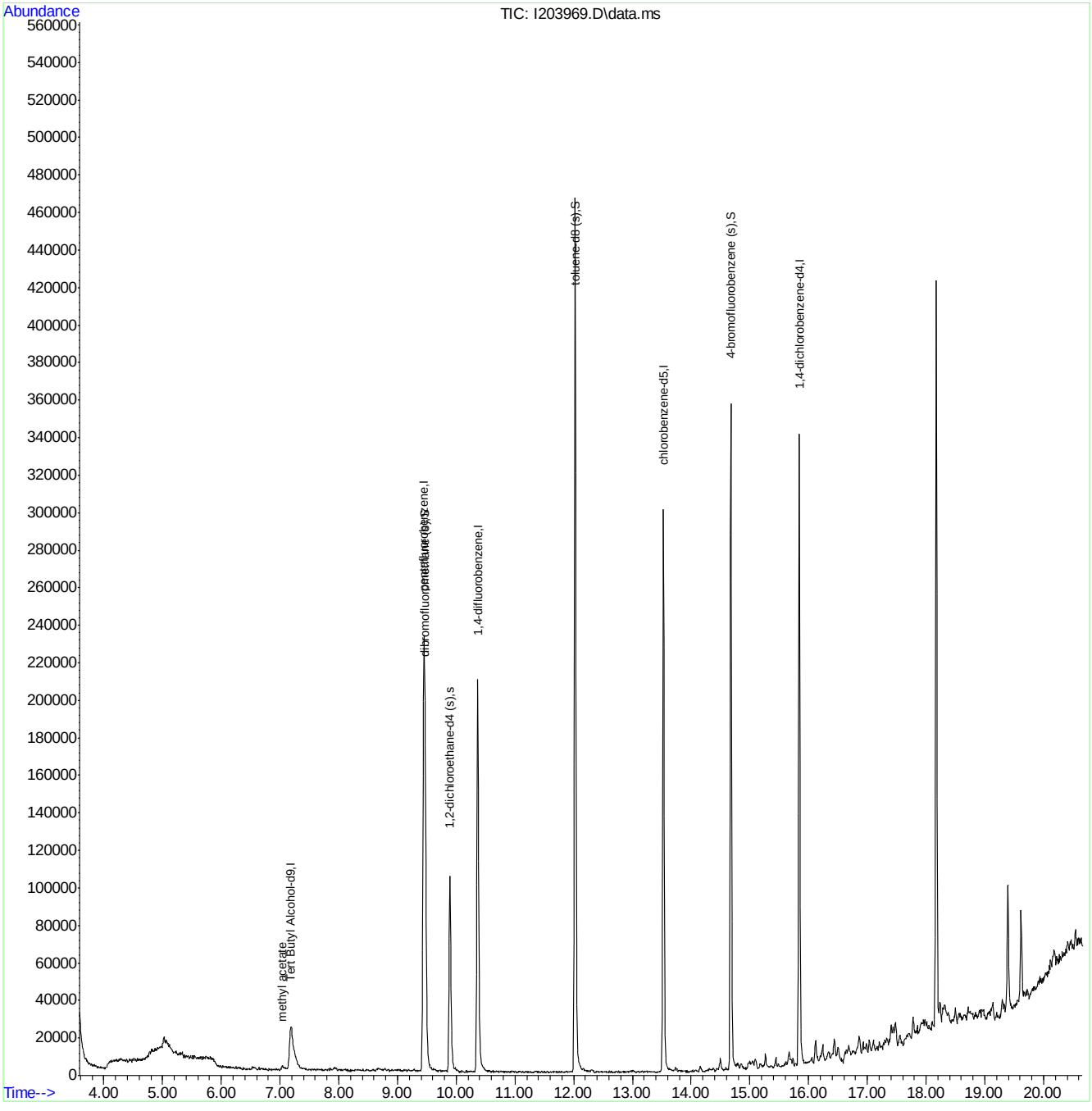
7.1.21

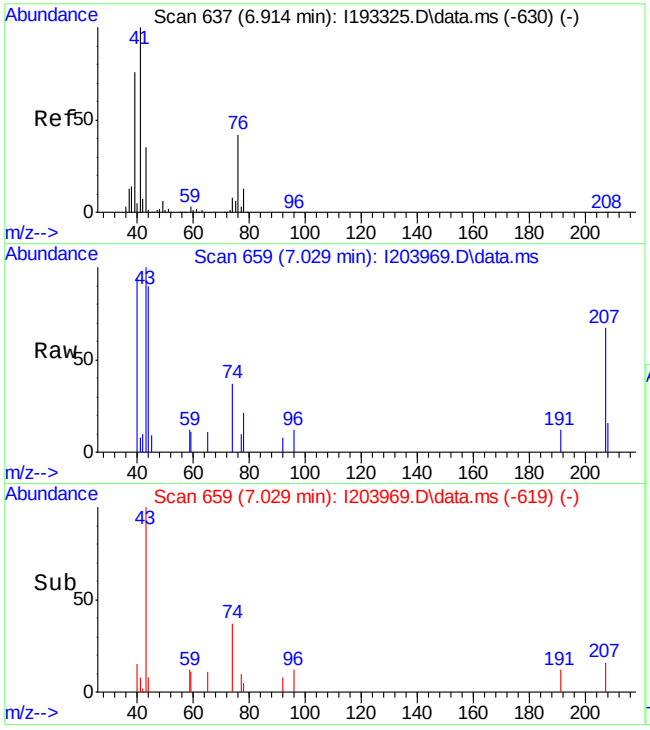
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203969.D
Acq On : 9 May 2015 9:02 am
Operator : SCOTTM
Sample : JB94209-11
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 42 Sample Multiplier: 1

Quant Time: May 11 13:50:38 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 30 09:04:29 2015
Response via : Initial Calibration

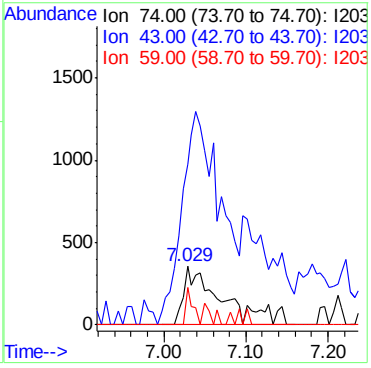




#21
methyl acetate
Concen: 5.76 ug/L m
RT: 7.029 min Scan# 659
Delta R.T. 0.011 min
Lab File: I203969.D
Acq: 9 May 2015 9:02 am

Tgt Ion: 74 Resp: 1162

Ion	Ratio	Lower	Upper
74	100		
43	513.3	564.5	604.5#
59	0.0	18.7	58.7#



7.1.21

7

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203969.D
Acq On : 9 May 2015 9:02 am
Operator : SCOTTM
Sample : JB94209-11
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 42 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 550 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.5 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

Signal : TIC: I20396

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.094	90	98	100	rBV7	2970	6122	0.72%	0.118%
2	6.024	464	467	471	rBV6	1261	1606	0.19%	0.031%
3	6.281	514	516	518	rBV3	804	745	0.09%	0.014%
4	6.527	560	563	565	rBV4	1193	959	0.11%	0.018%
5	6.809	614	617	620	rBV2	1333	1176	0.14%	0.023%
6	6.835	620	622	627	rVB4	1074	1526	0.18%	0.029%
7	6.872	627	629	635	rBV5	1087	1552	0.18%	0.030%
8	7.039	657	661	671	rVB8	2226	5423	0.64%	0.104%
9	7.180	678	688	728	rBV2	22835	118454	13.99%	2.280%
10	7.442	736	738	745	rBV5	792	1038	0.12%	0.020%
11	7.536	754	756	760	rBV4	803	1107	0.13%	0.021%
12	7.630	770	774	776	rBV3	797	909	0.11%	0.017%
13	7.703	786	788	790	rVB4	973	824	0.10%	0.016%
14	7.818	809	810	815	rVB5	1162	1339	0.16%	0.026%
15	7.850	815	816	824	rBV4	1405	2387	0.28%	0.046%
16	7.928	825	831	832	rBV4	1236	1793	0.21%	0.035%
17	8.090	858	862	864	rBV2	846	1146	0.14%	0.022%
18	8.279	895	898	901	rBV4	1090	893	0.11%	0.017%
19	8.451	928	931	934	rBV3	907	775	0.09%	0.015%
20	8.472	934	935	943	rBV4	963	1521	0.18%	0.029%
21	8.592	953	958	963	rBV3	1293	1636	0.19%	0.031%
22	8.645	965	968	969	rBV3	1256	1130	0.13%	0.022%
23	9.011	1037	1038	1042	rBV4	1157	911	0.11%	0.018%
24	9.142	1060	1063	1067	rVB3	1245	1940	0.23%	0.037%
25	9.189	1070	1072	1074	rVV3	1171	877	0.10%	0.017%
26	9.236	1078	1081	1085	rVV2	829	1123	0.13%	0.022%
27	9.278	1086	1089	1097	rVB6	1379	2875	0.34%	0.055%
28	9.351	1102	1103	1107	rBV3	784	832	0.10%	0.016%
29	9.450	1110	1122	1152	rBV2	232002	744611	87.93%	14.330%
30	9.722	1168	1174	1177	rBV3	915	1749	0.21%	0.034%
31	9.890	1198	1206	1223	rBV	104095	237269	28.02%	4.566%
32	10.094	1244	1245	1254	rVB4	1140	1592	0.19%	0.031%
33	10.172	1257	1260	1263	rVB3	1081	809	0.10%	0.016%
34	10.240	1270	1273	1276	rBV2	785	784	0.09%	0.015%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203969.D
Acq On : 9 May 2015 9:02 am
Operator : SCOTTM
Sample : JB94209-11
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 42 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 550 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.5 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

35	10.366	1288	1297	1323	rBV	209213	454632	53.69%	8.750%
36	10.564	1333	1335	1340	rVB2	1082	1062	0.13%	0.020%
37	10.622	1344	1346	1349	rVB3	1470	870	0.10%	0.017%
38	10.753	1366	1371	1375	rBV4	1208	1888	0.22%	0.036%
39	10.826	1382	1385	1389	rBV2	1074	1088	0.13%	0.021%
40	10.868	1389	1393	1395	rBV2	787	1039	0.12%	0.020%
41	11.004	1417	1419	1423	rBV	959	958	0.11%	0.018%
42	11.155	1445	1448	1450	rVB3	835	761	0.09%	0.015%
43	11.375	1486	1490	1493	rVB2	982	1265	0.15%	0.024%
44	11.401	1493	1495	1500	rBV2	918	1021	0.12%	0.020%
45	11.464	1503	1507	1508	rVB2	1146	894	0.11%	0.017%
46	11.501	1510	1514	1520	rBV5	739	1062	0.13%	0.020%
47	11.600	1530	1533	1536	rBV2	719	862	0.10%	0.017%
48	11.710	1551	1554	1557	rVB3	918	843	0.10%	0.016%
49	11.752	1560	1562	1565	rBV3	980	833	0.10%	0.016%
50	11.882	1580	1587	1590	rBV2	1044	1656	0.20%	0.032%
51	11.914	1590	1593	1598	rBV4	548	796	0.09%	0.015%
52	12.024	1604	1614	1638	rBV	466056	846836	100.00%	16.298%
53	12.301	1663	1667	1672	rBV3	931	1732	0.20%	0.033%
54	12.395	1682	1685	1688	rBV2	719	839	0.10%	0.016%
55	12.479	1693	1701	1702	rVB4	602	1178	0.14%	0.023%
56	12.609	1723	1726	1729	rBV3	1059	1039	0.12%	0.020%
57	12.824	1764	1767	1769	rBV2	767	902	0.11%	0.017%
58	12.975	1788	1796	1799	rBV4	787	1426	0.17%	0.027%
59	13.012	1802	1803	1812	rVB5	1162	1713	0.20%	0.033%
60	13.106	1812	1821	1823	rBV3	676	1217	0.14%	0.023%
61	13.164	1828	1832	1837	rVB4	1160	2084	0.25%	0.040%
62	13.206	1837	1840	1844	rBV3	1163	1503	0.18%	0.029%
63	13.247	1844	1848	1852	rVB3	765	860	0.10%	0.017%
64	13.525	1891	1901	1919	rVV	299540	518781	61.26%	9.984%
65	13.734	1939	1941	1949	rVB7	2226	4200	0.50%	0.081%
66	13.802	1950	1954	1959	rVB4	1207	1754	0.21%	0.034%
67	14.027	1994	1997	2000	rVB5	973	765	0.09%	0.015%
68	14.079	2000	2007	2011	rBV6	1120	2222	0.26%	0.043%
69	14.152	2016	2021	2028	rBV7	3017	5658	0.67%	0.109%
70	14.252	2036	2040	2041	rBV3	857	876	0.10%	0.017%
71	14.309	2048	2051	2054	rBV4	1290	1250	0.15%	0.024%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203969.D
Acq On : 9 May 2015 9:02 am
Operator : SCOTTM
Sample : JB94209-11
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 42 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 550 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.5 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

72	14.377	2061	2064	2068	rVB5	1730	2132	0.25%	0.041%
73	14.435	2072	2075	2080	rBV5	1469	2177	0.26%	0.042%
74	14.497	2080	2087	2098	rVB7	6485	12508	1.48%	0.241%
75	14.592	2103	2105	2109	rBV5	1660	1551	0.18%	0.030%
76	14.675	2114	2121	2138	rBV2	355274	575927	68.01%	11.084%
77	14.780	2138	2141	2143	rBV4	1751	1404	0.17%	0.027%
78	14.853	2150	2155	2159	rBV6	2546	3519	0.42%	0.068%
79	14.984	2174	2180	2182	rBV6	2891	5341	0.63%	0.103%
80	15.094	2197	2201	2209	rVB7	5422	10313	1.22%	0.198%
81	15.183	2213	2218	2223	rVV8	2496	4666	0.55%	0.090%
82	15.266	2230	2234	2246	rVB8	7515	12915	1.53%	0.249%
83	15.360	2249	2252	2258	rVB7	1470	2074	0.24%	0.040%
84	15.444	2260	2268	2273	rBV2	5782	9677	1.14%	0.186%
85	15.486	2273	2276	2285	rVB10	2081	3403	0.40%	0.065%
86	15.669	2305	2311	2320	rBV10	6699	17572	2.08%	0.338%
87	15.732	2321	2323	2329	rVB7	4538	6242	0.74%	0.120%
88	15.842	2336	2344	2360	rBV	336730	544350	64.28%	10.476%
89	16.114	2391	2396	2407	rBV4	12503	28169	3.33%	0.542%
90	16.239	2408	2420	2428	rVB4	8738	23145	2.73%	0.445%
91	16.438	2454	2458	2464	rVB3	9707	15429	1.82%	0.297%
92	16.501	2467	2470	2483	rVB7	7499	15109	1.78%	0.291%
93	16.642	2487	2497	2500	rBV9	7034	20700	2.44%	0.398%
94	16.929	2548	2552	2560	rBV9	5138	8804	1.04%	0.169%
95	17.034	2567	2572	2578	rBV9	7003	12240	1.45%	0.236%
96	17.400	2640	2642	2646	rBV5	6042	7404	0.87%	0.142%
97	17.777	2711	2714	2725	rVB5	8303	10342	1.22%	0.199%
98	18.174	2783	2790	2799	rBV	398140	628223	74.18%	12.090%
99	19.388	3018	3022	3046	rVB	64896	111751	13.20%	2.151%
100	19.618	3061	3066	3079	rVB	45802	81146	9.58%	1.562%

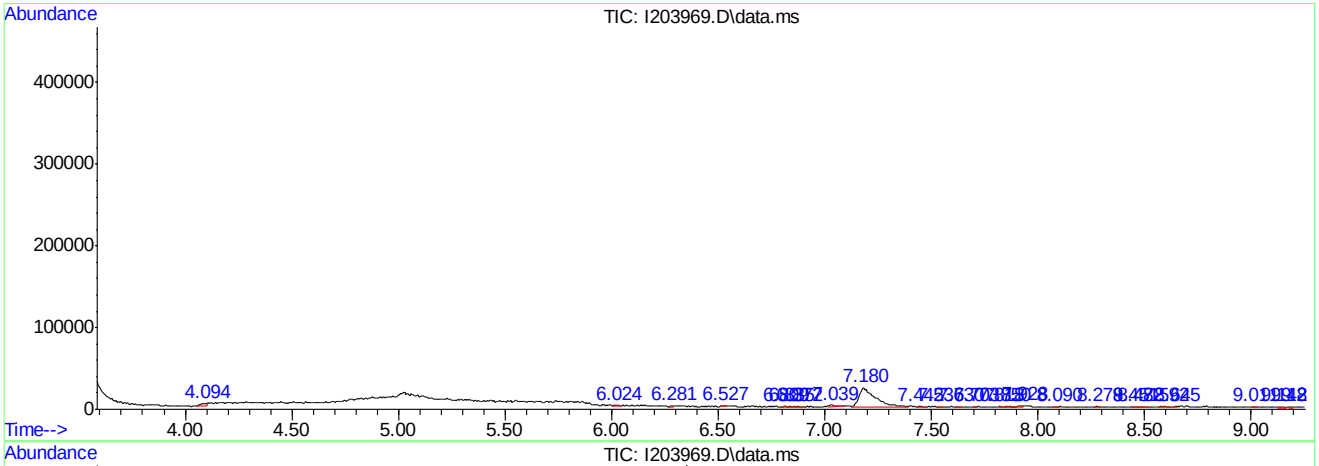
Sum of corrected areas: 5196031

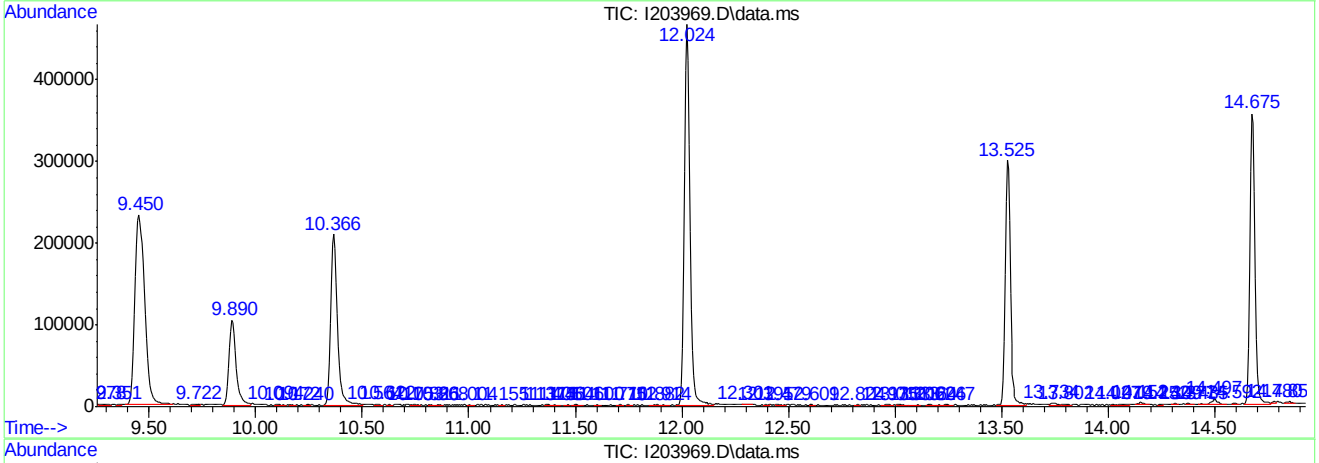
LSC Report - Integrated Chromatogram

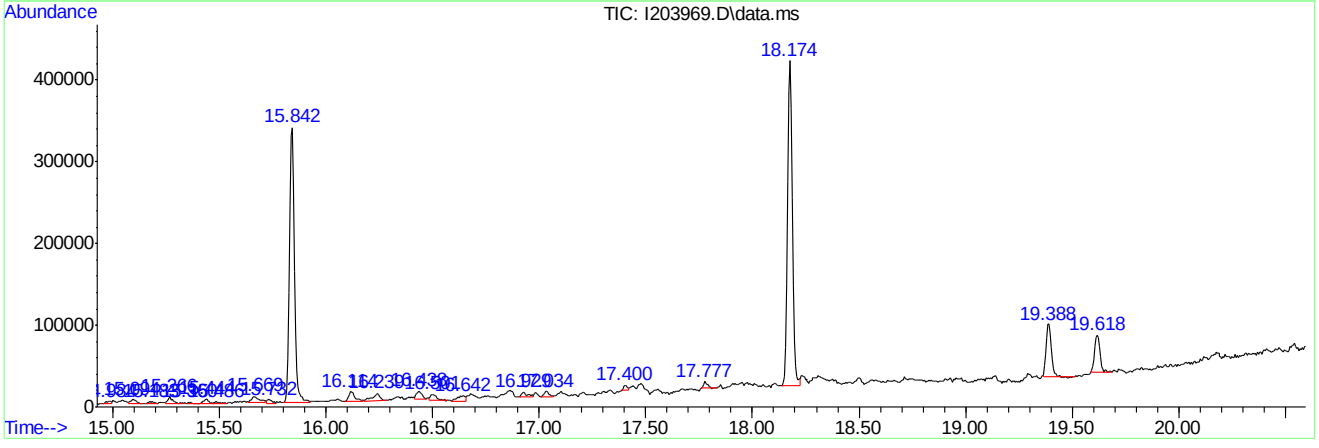
Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203969.D
Acq On : 9 May 2015 9:02 am
Operator : SCOTTM
Sample : JB94209-11
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 42 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P







Library Search Compound Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203969.D
Acq On : 9 May 2015 9:02 am
Operator : SCOTTM
Sample : JB94209-11
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 42 Sample Multiplier: 1

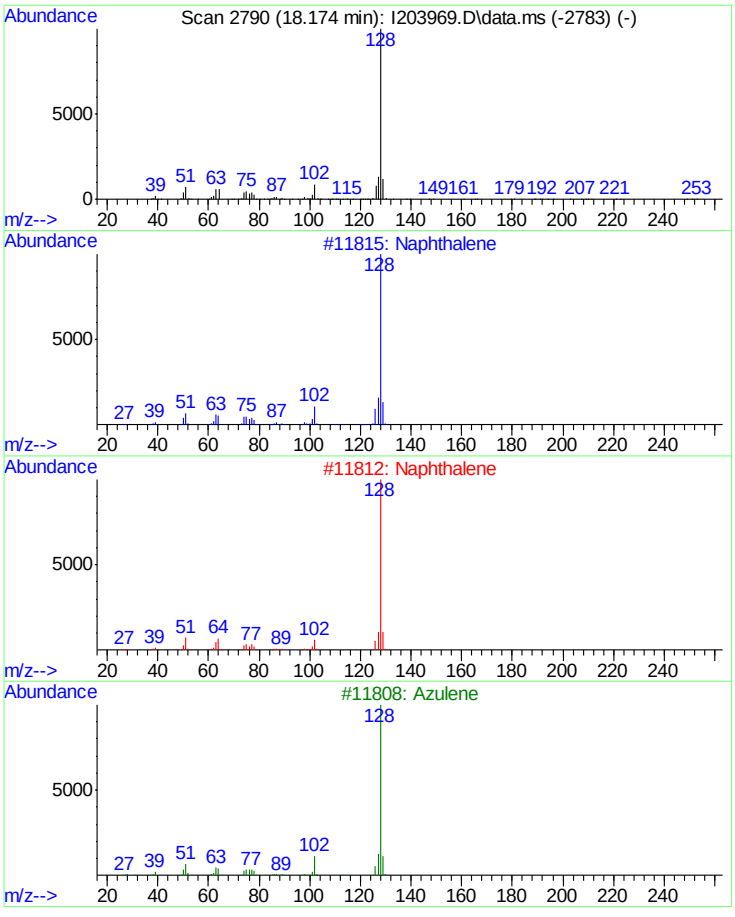
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

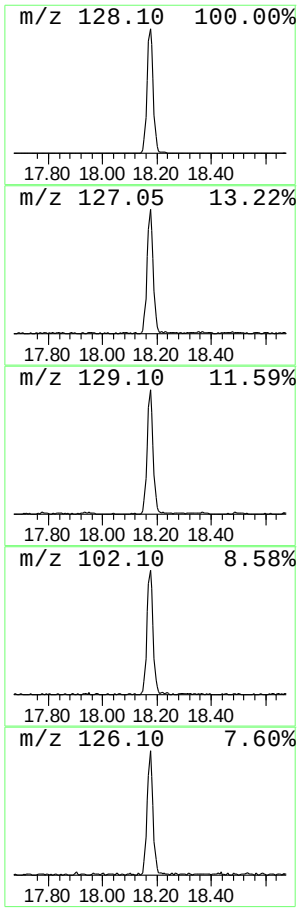
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

****
Peak Number 1 Naphthalene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.17	57.70 ug/L	628223	1,4-dichlorobenzene-d4	15.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene	128	C10H8	000091-20-3	97
2	Naphthalene	128	C10H8	000091-20-3	94
3	Azulene	128	C10H8	000275-51-4	94
4	Azulene	128	C10H8	000275-51-4	94
5	Naphthalene	128	C10H8	000091-20-3	91





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203969.D
Acq On : 9 May 2015 9:02 am
Operator : SCOTTM
Sample : JB94209-11
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 42 Sample Multiplier: 1

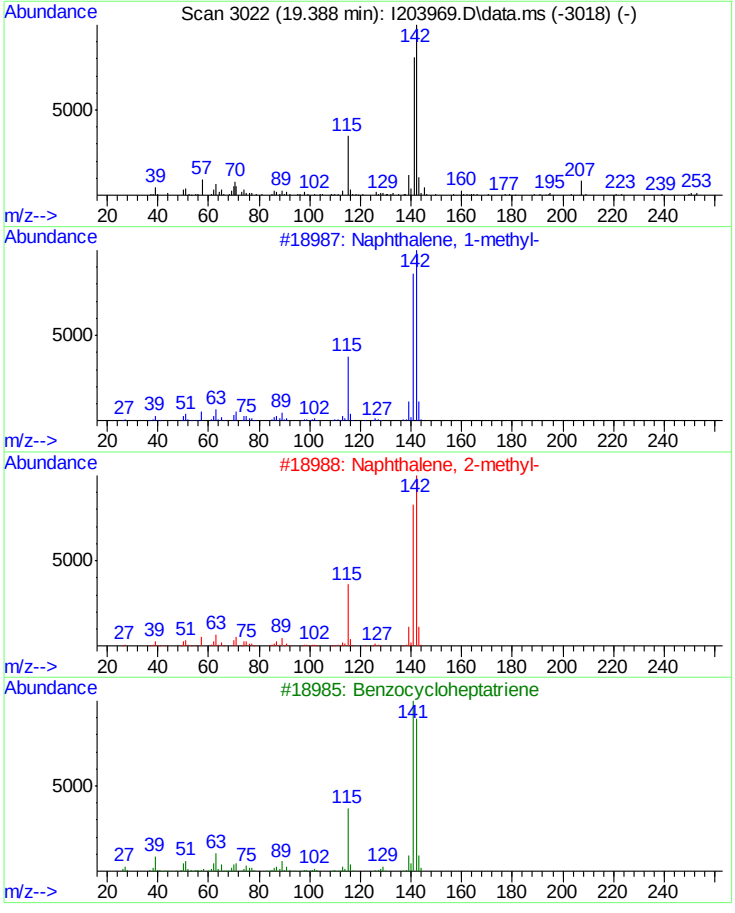
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

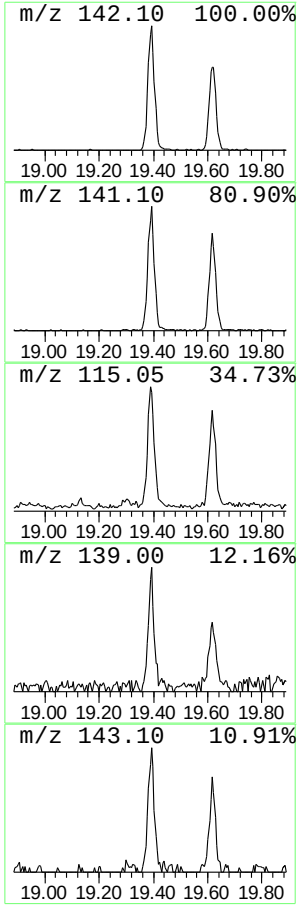
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

****
Peak Number 2 Naphthalene, -methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.39	10.26 ug/L	111751	1,4-dichlorobenzene-d4	15.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	90
2	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	90
3	Benzocycloheptatriene	142	C11H10	000264-09-5	87
4	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	87
5	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	83





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203969.D
Acq On : 9 May 2015 9:02 am
Operator : SCOTTM
Sample : JB94209-11
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 42 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

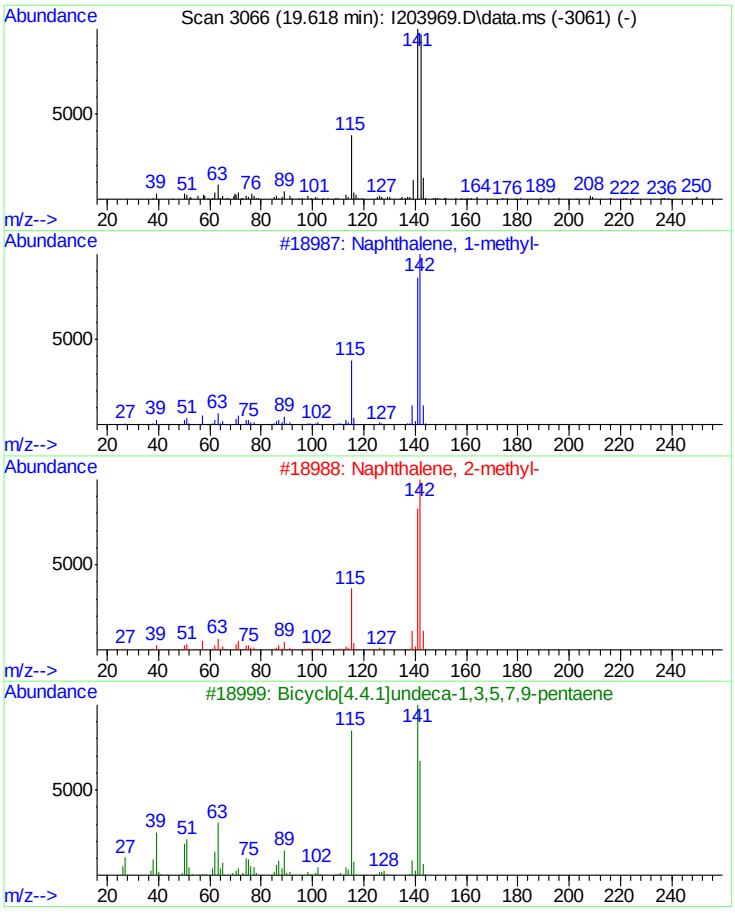
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

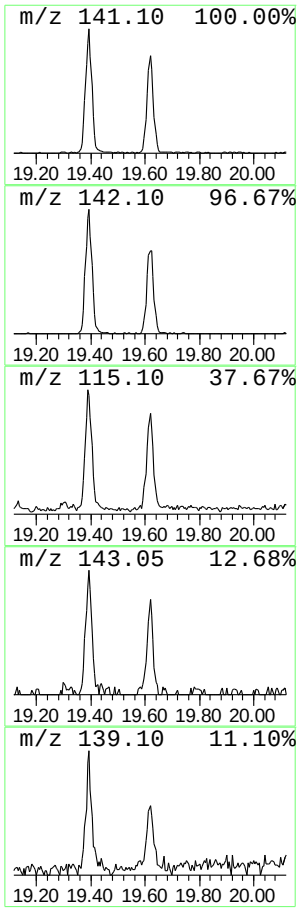
****

Peak Number 3 Naphthalene, -methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.62	7.45 ug/L	81146	1,4-dichlorobenzene-d4	15.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	94
2	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	94
3	Bicyclo[4.4.1]undeca-1,3,5,7,9-p...	142	C11H10	002443-46-1	91
4	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	91
5	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	91





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203969.D
Acq On : 9 May 2015 9:02 am
Operator : SCOTTM
Sample : JB94209-11
Misc : MS84864,VI8195,5.0,,,,1
ALS Vial : 42 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Naphthalene	18.17	57.7	ug/L	628223	5	15.84	544350	50.0
Naphthalene, -met...	19.39	10.3	ug/L	111751	5	15.84	544350	50.0
Naphthalene, -met...	19.62	7.5	ug/L	81146	5	15.84	544350	50.0

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C119824.D
Acq On : 10 May 2015 2:13 pm
Operator : prashans
Sample : JB94209-12
Misc : MS84864,V3C5467,4.7,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 11 12:09:49 2015
Quant Method : C:\MSDCHEM\1\METHODS\M3C5457.M
Quant Title : Method SW846 8260C, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue May 05 16:14:27 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.08	65	120135	500.00	ug/L	-0.02
5) pentafluorobenzene	9.34	168	299461	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.26	114	362482	50.00	ug/L	0.00
83) chlorobenzene-d5	13.42	117	309381	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	15.72	152	189199	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.38	113	100460	50.51	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 101.02%			
46) 1,2-dichloroethane-d4 (s)	9.80	65	103478	53.60	ug/L	0.00
Spiked Amount 50.000	Range 68 - 124		Recovery = 107.20%			
75) toluene-d8 (s)	11.91	98	409266	51.97	ug/L	0.00
Spiked Amount 50.000	Range 77 - 125		Recovery = 103.94%			
101) 4-bromofluorobenzene (s)	14.56	95	161593	48.54	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 97.08%			

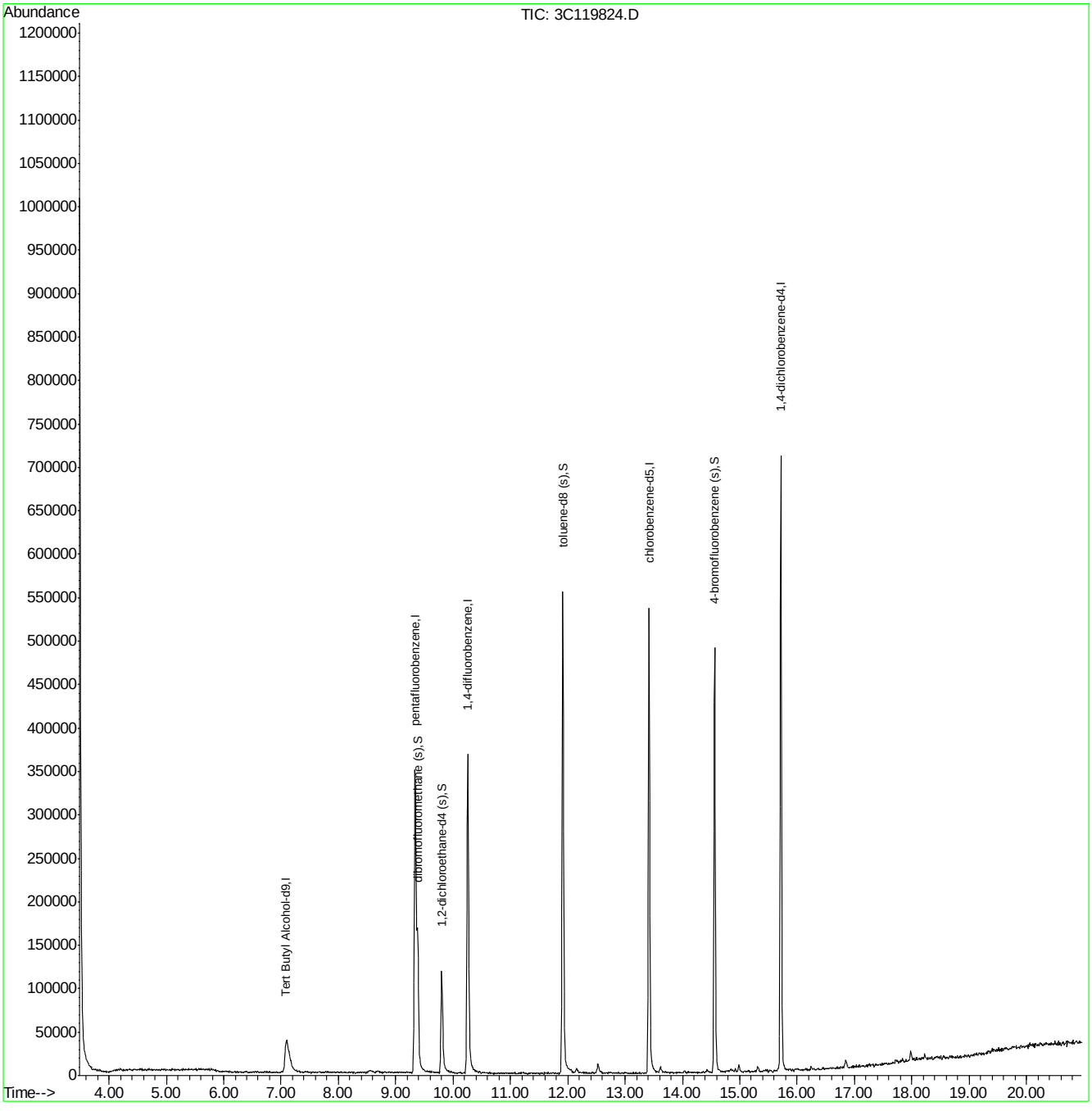
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C119824.D
Acq On : 10 May 2015 2:13 pm
Operator : prashans
Sample : JB94209-12
Misc : MS84864,V3C5467,4.7,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 11 12:09:49 2015
Quant Method : C:\MSDCHEM\1\METHODS\M3C5457.M
Quant Title : Method SW846 8260C, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue May 05 16:14:27 2015
Response via : Initial Calibration



M3C5457.M Mon May 11 12:09:54 2015 MS3C

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C119824.D
Acq On : 10 May 2015 2:13 pm
Operator : prashans
Sample : JB94209-12
Misc : MS84864,V3C5467,4.7,,,,1
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.15 Max Peaks: 100
Stop Thrs : 0.05 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M3C5457.M
Title : Method SW846 8260C, ZB624 60m x 0.25mm x 1.4um

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.295	345	347	351	rBV5	2347	2706	0.23%	0.040%
2	6.105	499	502	509	rVB8	1898	2856	0.25%	0.042%
3	6.372	547	553	554	rBV4	1148	1786	0.15%	0.026%
4	6.587	592	594	599	rVB3	2250	2819	0.24%	0.042%
5	6.623	599	601	603	rBV	1787	1425	0.12%	0.021%
6	6.916	655	657	665	rBV3	1595	1987	0.17%	0.029%
7	7.005	673	674	679	rBV4	2065	2712	0.23%	0.040%
8	7.099	679	692	729	rVV2	38170	218982	18.95%	3.236%
9	7.606	786	789	793	rVB5	1765	1938	0.17%	0.029%
10	7.727	806	812	814	rBV5	1657	1993	0.17%	0.029%
11	7.784	819	823	826	rBV5	1703	2453	0.21%	0.036%
12	7.899	843	845	854	rBV4	1022	2406	0.21%	0.036%
13	8.035	869	871	881	rVB6	1578	3156	0.27%	0.047%
14	8.098	881	883	885	rBV	1144	1220	0.11%	0.018%
15	8.171	894	897	899	rVB2	1550	1410	0.12%	0.021%
16	8.302	921	922	928	rBV3	1174	1969	0.17%	0.029%
17	8.391	933	939	942	rBV3	2047	2866	0.25%	0.042%
18	8.417	942	944	947	rBV2	1524	1493	0.13%	0.022%
19	8.480	955	956	961	rBV4	1679	2076	0.18%	0.031%
20	8.517	961	963	964	rBV2	2319	1436	0.12%	0.021%
21	8.658	987	990	993	rBV3	1842	2579	0.22%	0.038%
22	8.762	1007	1010	1011	rVB3	2020	1764	0.15%	0.026%
23	8.799	1016	1017	1027	rVV4	1804	3809	0.33%	0.056%
24	8.862	1027	1029	1033	rVB3	1752	1866	0.16%	0.028%
25	8.888	1033	1034	1038	rVB4	1458	1626	0.14%	0.024%
26	8.935	1041	1043	1046	rVB3	1656	1435	0.12%	0.021%
27	8.972	1046	1050	1055	rBV5	1670	2735	0.24%	0.040%
28	9.338	1109	1120	1155	rBV2	348853	1144843	99.05%	16.917%
29	9.594	1165	1169	1171	rBV5	1270	1437	0.12%	0.021%
30	9.620	1171	1174	1186	rVB8	1882	3055	0.26%	0.045%
31	9.803	1200	1209	1231	rBV	117857	278837	24.13%	4.120%
32	10.007	1246	1248	1253	rVB2	1755	2160	0.19%	0.032%
33	10.049	1253	1256	1258	rBV2	1327	1196	0.10%	0.018%
34	10.091	1260	1264	1266	rBV2	1334	1553	0.13%	0.023%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C119824.D
Acq On : 10 May 2015 2:13 pm
Operator : prashans
Sample : JB94209-12
Misc : MS84864,V3C5467,4.7,,,,1
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.15 Max Peaks: 100
Stop Thrs : 0.05 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M3C5457.M
Title : Method SW846 8260C, ZB624 60m x 0.25mm x 1.4um

35	10.175	1278	1280	1283	rBV3	1133	1188	0.10%	0.018%
36	10.258	1287	1296	1320	rBV	367196	801887	69.38%	11.849%
37	10.457	1332	1334	1340	rVB4	2234	2995	0.26%	0.044%
38	10.520	1345	1346	1359	rVV6	2185	4351	0.38%	0.064%
39	10.645	1367	1370	1374	rBV3	1926	1568	0.14%	0.023%
40	10.708	1379	1382	1383	rVB2	2097	1271	0.11%	0.019%
41	10.781	1391	1396	1400	rBV4	1159	2161	0.19%	0.032%
42	10.834	1405	1406	1411	rVB2	1467	1705	0.15%	0.025%
43	10.980	1430	1434	1438	rBV4	1407	2204	0.19%	0.033%
44	11.137	1460	1464	1466	rBV3	1168	1402	0.12%	0.021%
45	11.273	1488	1490	1495	rVB2	1805	1920	0.17%	0.028%
46	11.309	1495	1497	1500	rBV2	1447	1680	0.15%	0.025%
47	11.414	1513	1517	1521	rBV5	1607	1733	0.15%	0.026%
48	11.487	1530	1531	1536	rVB3	1576	1794	0.16%	0.027%
49	11.524	1536	1538	1541	rBV	1441	1585	0.14%	0.023%
50	11.592	1549	1551	1553	rBV	2249	1685	0.15%	0.025%
51	11.623	1555	1557	1561	rVV3	1458	1733	0.15%	0.026%
52	11.660	1561	1564	1567	rVV2	2222	1804	0.16%	0.027%
53	11.728	1575	1577	1579	rBV2	1060	1198	0.10%	0.018%
54	11.754	1579	1582	1585	rVV5	1547	1430	0.12%	0.021%
55	11.780	1585	1587	1594	rVV4	1241	1660	0.14%	0.025%
56	11.827	1594	1596	1599	rVB3	1581	1567	0.14%	0.023%
57	11.911	1599	1612	1644	rBV	555403	1078233	93.29%	15.933%
58	12.120	1649	1652	1654	rVV3	1332	1400	0.12%	0.021%
59	12.157	1654	1659	1669	rVB7	5210	9990	0.86%	0.148%
60	12.293	1684	1685	1689	rVB4	1762	1670	0.14%	0.025%
61	12.376	1700	1701	1705	rBV3	1284	1345	0.12%	0.020%
62	12.523	1722	1729	1746	rVV4	11187	29645	2.56%	0.438%
63	12.638	1746	1751	1753	rVV5	1173	1522	0.13%	0.022%
64	12.664	1753	1756	1762	rVV5	1258	2058	0.18%	0.030%
65	12.716	1765	1766	1770	rBV4	1528	1605	0.14%	0.024%
66	12.748	1770	1772	1779	rVB4	1436	2000	0.17%	0.030%
67	12.837	1786	1789	1793	rVB2	1463	1848	0.16%	0.027%
68	12.931	1806	1807	1813	rBV3	1224	1679	0.15%	0.025%
69	12.994	1818	1819	1823	rBV4	1798	1955	0.17%	0.029%
70	13.056	1828	1831	1834	rBV2	1170	1379	0.12%	0.020%
71	13.150	1846	1849	1852	rBV3	1904	2000	0.17%	0.030%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C119824.D
Acq On : 10 May 2015 2:13 pm
Operator : prashans
Sample : JB94209-12
Misc : MS84864,V3C5467,4.7,,,,1
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.15 Max Peaks: 100
Stop Thrs : 0.05 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M3C5457.M
Title : Method SW846 8260C, ZB624 60m x 0.25mm x 1.4um

72	13.192	1855	1857	1863	rVB5	2103	2331	0.20%	0.034%
73	13.255	1868	1869	1874	rVV2	1841	1279	0.11%	0.019%
74	13.297	1874	1877	1881	rVV4	1127	1402	0.12%	0.021%
75	13.344	1883	1886	1890	rVB4	1569	2622	0.23%	0.039%
76	13.417	1890	1900	1924	rBV	536521	941799	81.49%	13.917%
77	13.553	1924	1926	1932	rVV3	1992	2823	0.24%	0.042%
78	13.621	1932	1939	1945	rVB2	8150	14153	1.22%	0.209%
79	13.668	1945	1948	1952	rBV4	1452	2534	0.22%	0.037%
80	13.804	1969	1974	1976	rBV3	1820	2644	0.23%	0.039%
81	13.904	1991	1993	1995	rBV2	1937	1374	0.12%	0.020%
82	14.029	2012	2017	2026	rVB5	3326	8088	0.70%	0.120%
83	14.102	2026	2031	2035	rBV4	2911	4294	0.37%	0.063%
84	14.249	2056	2059	2063	rVB4	1744	1943	0.17%	0.029%
85	14.427	2087	2093	2099	rBV7	3673	5686	0.49%	0.084%
86	14.563	2111	2119	2139	rBV	488990	805950	69.73%	11.910%
87	14.808	2156	2166	2167	rBV5	1864	3234	0.28%	0.048%
88	14.835	2169	2171	2176	rVV5	2718	4445	0.38%	0.066%
89	14.924	2184	2188	2192	rVV5	3383	3509	0.30%	0.052%
90	14.981	2194	2199	2214	rVB5	9431	18376	1.59%	0.272%
91	15.143	2229	2230	2237	rVB7	2356	3884	0.34%	0.057%
92	15.311	2257	2262	2271	rBV2	7173	13288	1.15%	0.196%
93	15.415	2280	2282	2284	rBV3	1938	1312	0.11%	0.019%
94	15.452	2284	2289	2293	rVV7	3102	3918	0.34%	0.058%
95	15.603	2312	2318	2320	rBV6	3022	4937	0.43%	0.073%
96	15.719	2326	2340	2357	rBV	708748	1155769	100.00%	17.079%
97	16.017	2383	2397	2409	rBV	2846	15534	1.34%	0.230%
98	16.242	2438	2440	2458	rBV	3593	7045	0.61%	0.104%
99	16.848	2550	2556	2573	rBV	9186	22699	1.96%	0.335%
100	17.978	2770	2772	2788	rVB3	11030	22972	1.99%	0.339%

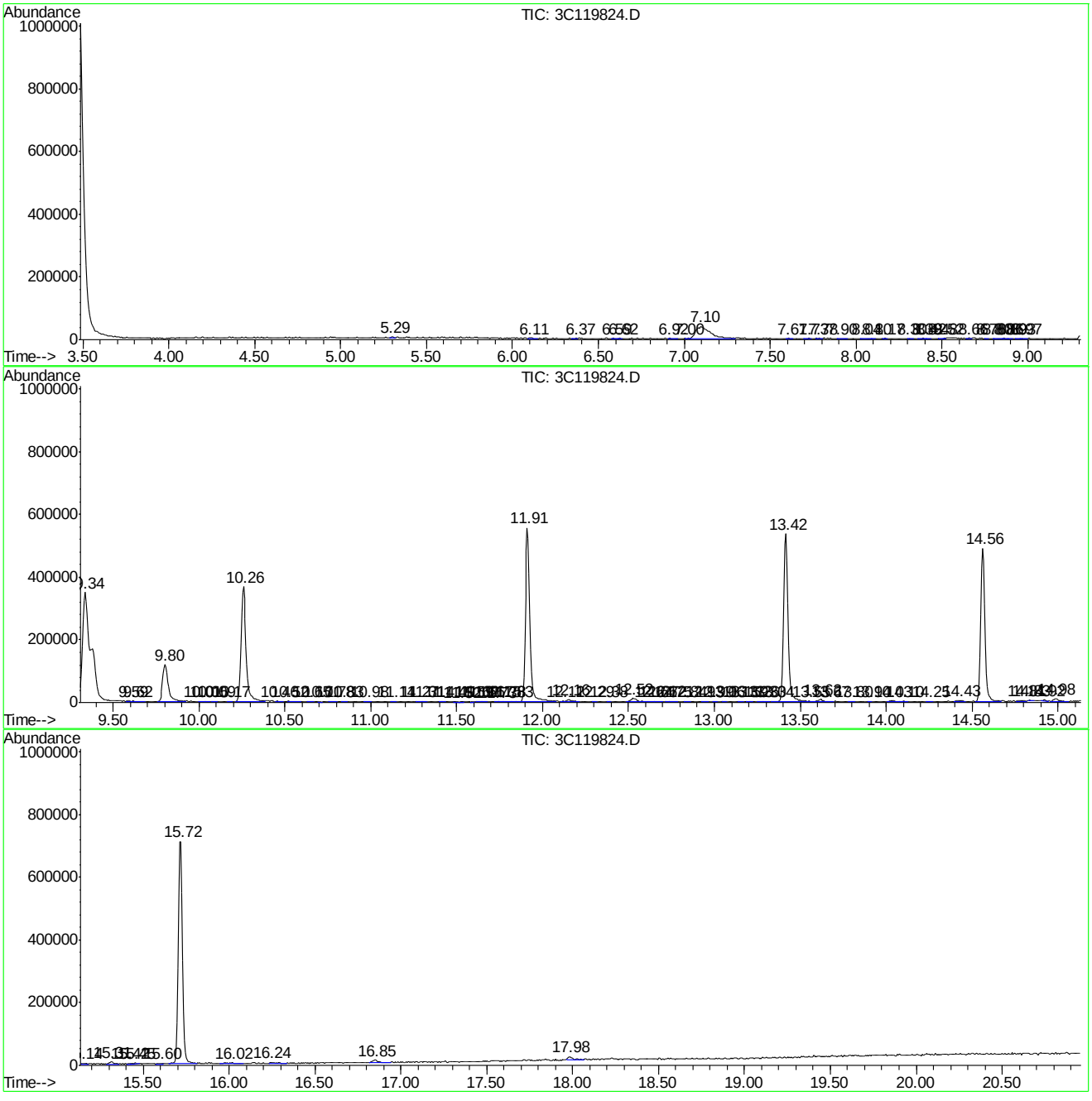
Sum of corrected areas: 6767278

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C119824.D
Acq On : 10 May 2015 2:13 pm
Operator : prashans
Sample : JB94209-12
Misc : MS84864,V3C5467,4.7,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M3C5457.M
Quant Title : Method SW846 8260C, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p



Tentatively Identified Compound (LSC) summary

```
  Data Path : C:\MSDCHEM\1\DATA\
  Data File : 3C119824.D
  Acq On    : 10 May 2015   2:13 pm
  Operator  : prashans
  Sample    : JB94209-12
  Misc      : MS84864,V3C5467,4.7,,,,1
  ALS Vial  : 9   Sample Multiplier: 1

  Quant Method : C:\MSDCHEM\1\METHODS\M3C5457.M
  Quant Title  : Method SW846 8260C, ZB624 60m x 0.25mm x 1.4um

  TIC Library   : C:\DATABASE\NIST08.L
  TIC Integration Parameters: lscint.p

                                                   |--Internal Standard---|
  TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------
```

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144326.D
Acq On : 8 May 2015 6:37 pm
Operator : BridgetK
Sample : jb94209-13
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 08 22:01:44 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 23 17:12:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.559	65	75631	500.00	ug/L	0.00
5) pentafluorobenzene	10.307	168	320093	50.00	ug/L	0.00
63) 1,4-difluorobenzene	11.460	114	356459	50.00	ug/L	0.00
94) chlorobenzene-d5	15.670	117	323752	50.00	ug/L	0.00
109) 1,4-dichlorobenzene-d4	18.423	152	197624	50.00	ug/L	0.00
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.322	113	108592	47.18	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 94.36%			
55) 1,2-dichloroethane-d4 (s)	10.862	65	104573	43.97	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 87.94%			
86) toluene-d8 (s)	13.657	98	402379	49.81	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 99.62%			
111) 4-bromofluorobenzene (s)	17.149	95	150684	48.37	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 96.74%			

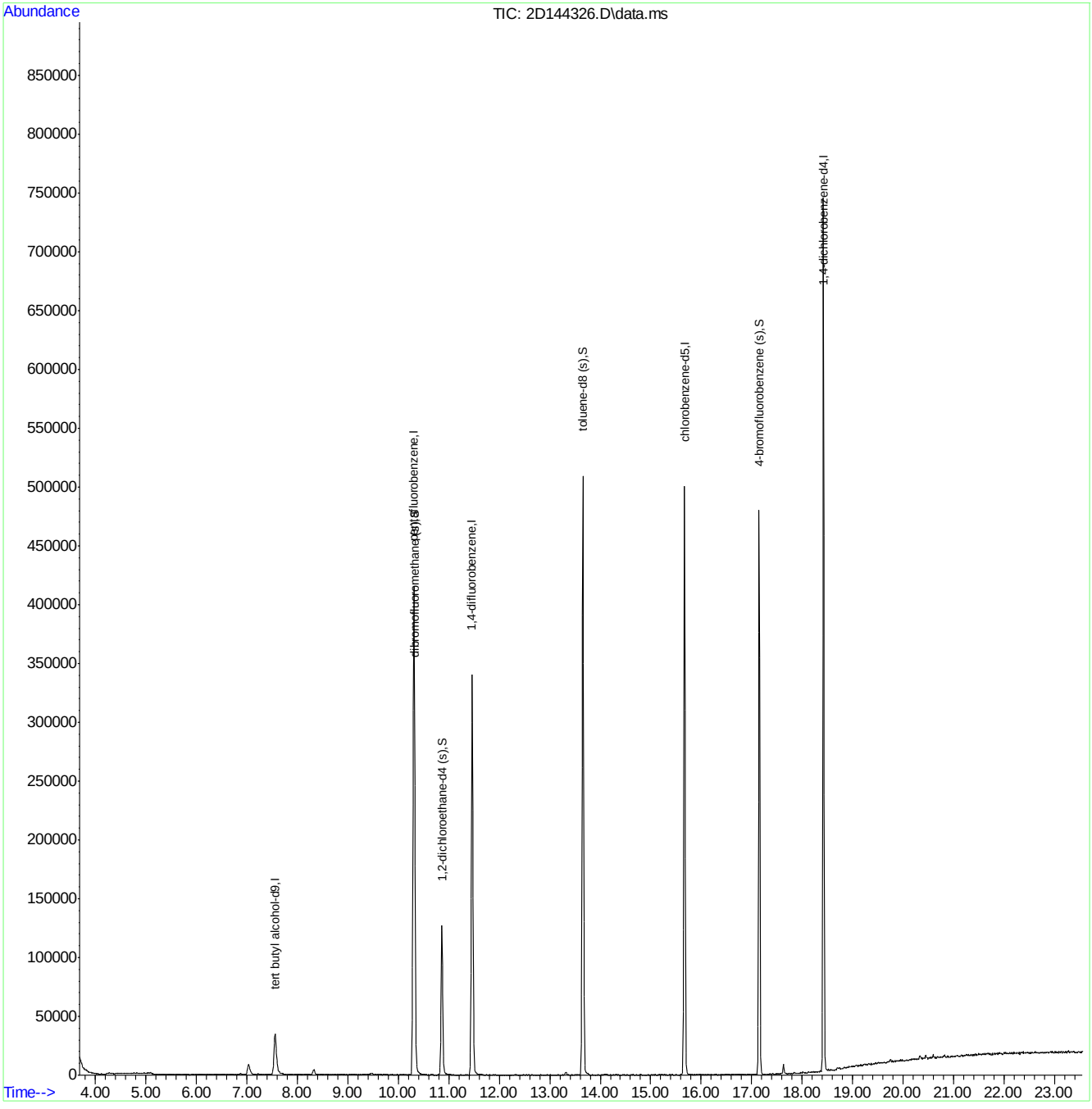
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144326.D
Acq On : 8 May 2015 6:37 pm
Operator : BridgetK
Sample : jb94209-13
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 08 22:01:44 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 23 17:12:49 2015
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144326.D
Acq On : 8 May 2015 6:37 pm
Operator : BridgetK
Sample : jb94209-13
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Signal : TIC: 2D144326.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.036	66	68	74	rVB3	568	795	0.07%	0.013%
2	4.240	102	107	110	rBV3	491	759	0.07%	0.012%
3	4.272	110	113	118	rBV4	721	944	0.09%	0.015%
4	4.387	133	135	138	rBV2	435	549	0.05%	0.009%
5	4.419	138	141	142	rVV2	442	390	0.04%	0.006%
6	4.497	153	156	158	rVB4	567	384	0.03%	0.006%
7	4.566	166	169	172	rBV3	434	600	0.05%	0.010%
8	4.822	216	218	220	rBV2	643	586	0.05%	0.009%
9	5.321	311	313	316	rVB	463	294	0.03%	0.005%
10	5.829	408	410	418	rBV3	293	476	0.04%	0.008%
11	5.897	419	423	425	rBV3	308	425	0.04%	0.007%
12	5.918	425	427	431	rVB2	353	403	0.04%	0.007%
13	6.563	542	550	558	rVB6	451	988	0.09%	0.016%
14	6.731	579	582	585	rVB4	277	327	0.03%	0.005%
15	6.867	598	608	616	rBV5	982	2561	0.23%	0.041%
16	7.030	629	639	661	rBV	9020	29630	2.67%	0.478%
17	7.156	661	663	666	rBV2	417	307	0.03%	0.005%
18	7.218	671	675	689	rVB4	741	2149	0.19%	0.035%
19	7.355	698	701	705	rBV3	337	346	0.03%	0.006%
20	7.386	705	707	714	rVV3	230	299	0.03%	0.005%
21	7.559	725	740	779	rBV2	34731	129310	11.66%	2.088%
22	7.769	779	780	783	rVB2	291	268	0.02%	0.004%
23	7.853	795	796	800	rVB3	322	303	0.03%	0.005%
24	8.330	874	887	899	rBV4	4311	12432	1.12%	0.201%
25	8.860	983	988	993	rBV3	333	440	0.04%	0.007%
26	9.295	1065	1071	1081	rBV3	728	1681	0.15%	0.027%
27	9.473	1097	1105	1114	rVB5	1408	3813	0.34%	0.062%
28	9.562	1114	1122	1124	rBV3	250	492	0.04%	0.008%
29	9.714	1149	1151	1157	rVB3	281	393	0.04%	0.006%
30	9.767	1157	1161	1164	rBV3	289	358	0.03%	0.006%
31	10.218	1243	1247	1249	rVB2	280	312	0.03%	0.005%
32	10.307	1252	1264	1307	rVB2	415602	1108560	100.00%	17.901%
33	10.658	1324	1331	1338	rVB5	493	1215	0.11%	0.020%
34	10.862	1356	1370	1405	rVB	126779	296048	26.71%	4.781%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144326.D
Acq On : 8 May 2015 6:37 pm
Operator : BridgetK
Sample : jb94209-13
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

35	11.172	1425	1429	1432	rBV2	219	309	0.03%	0.005%
36	11.235	1437	1441	1446	rBV	199	265	0.02%	0.004%
37	11.334	1458	1460	1465	rVB3	253	290	0.03%	0.005%
38	11.460	1470	1484	1512	rBV	340139	751945	67.83%	12.142%
39	11.612	1512	1513	1523	rVB3	366	789	0.07%	0.013%
40	12.378	1658	1659	1668	rBV2	224	413	0.04%	0.007%
41	12.587	1695	1699	1702	rVV	266	339	0.03%	0.005%
42	12.650	1706	1711	1714	rVB2	269	410	0.04%	0.007%
43	13.258	1823	1827	1829	rVB2	256	265	0.02%	0.004%
44	13.316	1829	1838	1848	rBV4	2299	4872	0.44%	0.079%
45	13.442	1860	1862	1867	rBV2	269	282	0.03%	0.005%
46	13.505	1867	1874	1876	rVB2	355	515	0.05%	0.008%
47	13.531	1876	1879	1881	rBV	275	262	0.02%	0.004%
48	13.557	1881	1884	1889	rVB2	205	254	0.02%	0.004%
49	13.657	1889	1903	1929	rBV	509317	1010689	91.17%	16.321%
50	13.919	1951	1953	1956	rBV2	265	258	0.02%	0.004%
51	14.087	1979	1985	1986	rBV2	590	686	0.06%	0.011%
52	14.202	2004	2007	2015	rVB4	286	583	0.05%	0.009%
53	14.255	2015	2017	2021	rBV	440	373	0.03%	0.006%
54	14.412	2043	2047	2051	rVB2	208	348	0.03%	0.006%
55	14.533	2066	2070	2072	rVB	295	268	0.02%	0.004%
56	14.637	2088	2090	2094	rBV2	259	314	0.03%	0.005%
57	14.700	2098	2102	2104	rBV2	224	287	0.03%	0.005%
58	14.810	2121	2123	2128	rBV	314	443	0.04%	0.007%
59	14.921	2138	2144	2148	rBV3	235	484	0.04%	0.008%
60	14.952	2148	2150	2155	rBV2	194	291	0.03%	0.005%
61	15.088	2173	2176	2179	rVB	227	249	0.02%	0.004%
62	15.115	2179	2181	2186	rVB2	324	398	0.04%	0.006%
63	15.156	2186	2189	2191	rBV3	342	419	0.04%	0.007%
64	15.371	2227	2230	2234	rVB2	279	302	0.03%	0.005%
65	15.424	2234	2240	2241	rBV3	332	518	0.05%	0.008%
66	15.497	2250	2254	2258	rBV2	283	394	0.04%	0.006%
67	15.534	2258	2261	2267	rVB2	157	261	0.02%	0.004%
68	15.597	2269	2273	2275	rBV	339	385	0.03%	0.006%
69	15.670	2277	2287	2305	rVV	500251	910346	82.12%	14.700%
70	15.807	2312	2313	2319	rVB3	495	672	0.06%	0.011%
71	15.859	2319	2323	2325	rBV2	250	316	0.03%	0.005%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144326.D
Acq On : 8 May 2015 6:37 pm
Operator : BridgetK
Sample : jb94209-13
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

72	15.964	2332	2343	2351	rBV4	943	2344	0.21%	0.038%
73	16.048	2357	2359	2364	rVB2	369	388	0.04%	0.006%
74	16.090	2364	2367	2370	rVV2	213	264	0.02%	0.004%
75	16.126	2372	2374	2380	rVV2	288	471	0.04%	0.008%
76	16.263	2394	2400	2403	rBV2	172	382	0.03%	0.006%
77	16.289	2404	2405	2413	rVB4	335	497	0.04%	0.008%
78	16.415	2424	2429	2431	rBV2	310	293	0.03%	0.005%
79	16.472	2438	2440	2443	rBV2	301	354	0.03%	0.006%
80	16.509	2443	2447	2453	rVB6	733	986	0.09%	0.016%
81	16.677	2474	2479	2482	rVB3	248	285	0.03%	0.005%
82	16.818	2499	2506	2507	rVV4	259	381	0.03%	0.006%
83	16.923	2523	2526	2533	rBV2	274	461	0.04%	0.007%
84	16.997	2538	2540	2543	rVB3	323	273	0.02%	0.004%
85	17.149	2561	2569	2587	rBV	479754	774395	69.86%	12.505%
86	17.364	2605	2610	2613	rVB5	636	873	0.08%	0.014%
87	17.416	2616	2620	2624	rVB3	936	810	0.07%	0.013%
88	17.558	2644	2647	2650	rVB4	699	664	0.06%	0.011%
89	17.579	2650	2651	2654	rBV3	745	750	0.07%	0.012%
90	17.631	2654	2661	2675	rVB2	8225	13787	1.24%	0.223%
91	17.778	2686	2689	2693	rBV3	582	560	0.05%	0.009%
92	17.815	2693	2696	2699	rBV4	561	661	0.06%	0.011%
93	17.851	2699	2703	2707	rVV6	634	1017	0.09%	0.016%
94	17.982	2722	2728	2730	rBV6	716	949	0.09%	0.015%
95	18.014	2730	2734	2740	rBV3	1593	2327	0.21%	0.038%
96	18.129	2753	2756	2759	rBV5	753	726	0.07%	0.012%
97	18.339	2791	2796	2797	rBV5	871	1050	0.09%	0.017%
98	18.360	2797	2800	2804	rBV4	1432	1901	0.17%	0.031%
99	18.423	2804	2812	2828	rVV	742757	1093752	98.66%	17.662%
100	18.696	2862	2864	2869	rBV5	1460	1816	0.16%	0.029%

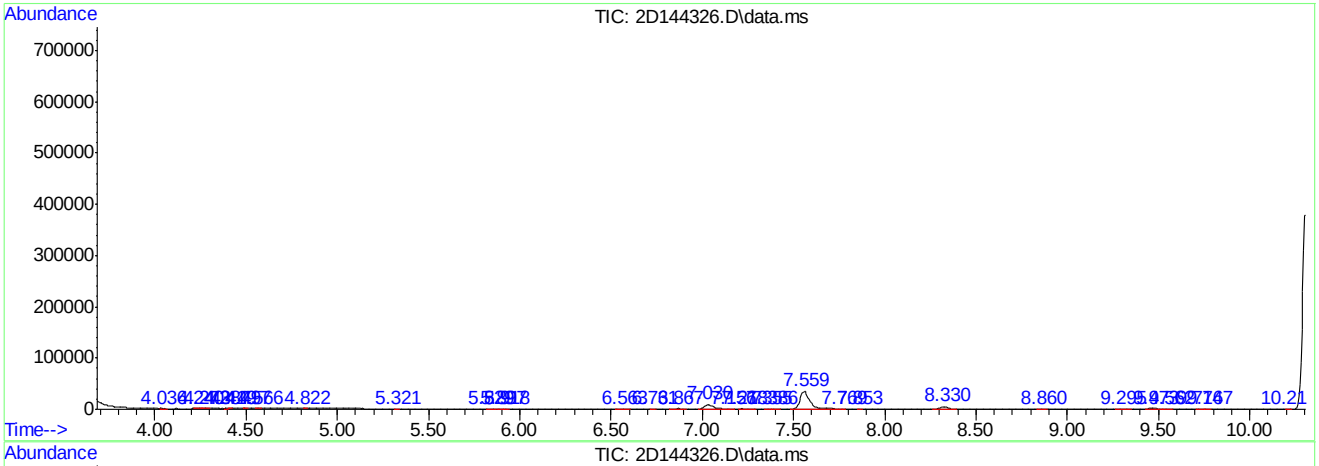
Sum of corrected areas: 6192748

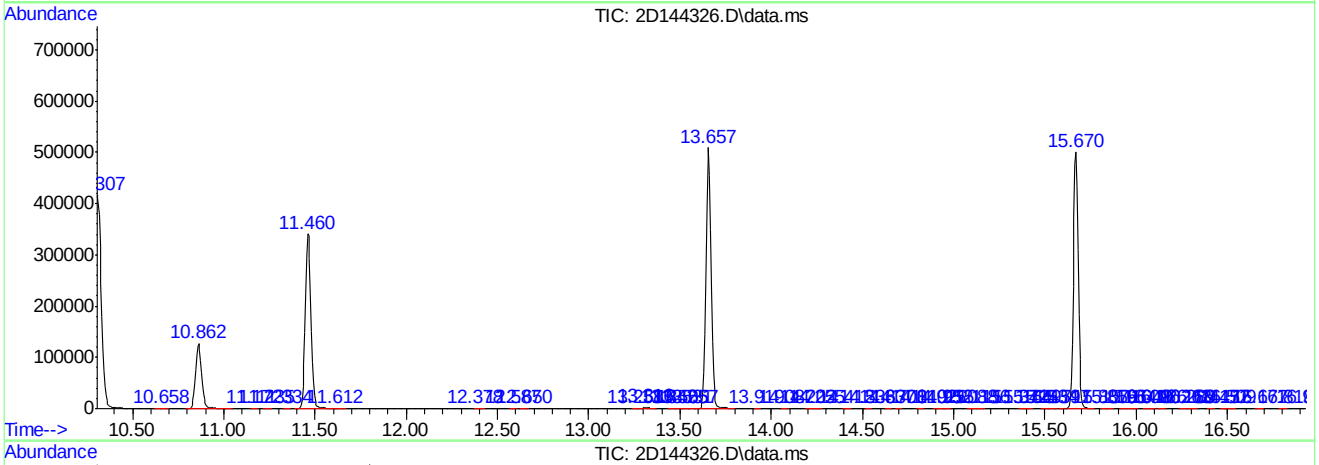
LSC Report - Integrated Chromatogram

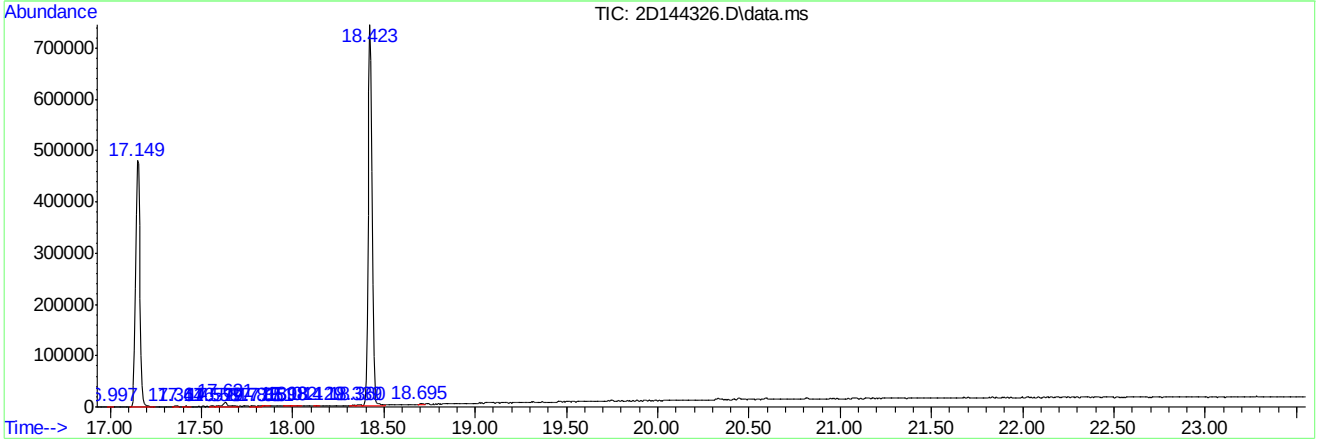
Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144326.D
Acq On : 8 May 2015 6:37 pm
Operator : BridgetK
Sample : jb94209-13
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: Lscint.p







M2D6039.M Fri May 08 22:02:08 2015 Page: 4

Tentatively Identified Compound (LSC) summary

```
  Data Path : C:\msdchem\1\DATA\2d\v2d6061\
  Data File : 2D144326.D
  Acq On    :  8 May 2015   6:37 pm
  Operator  : BridgetK
  Sample    : jb94209-13
  Misc      : ms84863,v2d6061,5,,,,1
  ALS Vial  : 16   Sample Multiplier: 1

  Quant Method : C:\MSDCHEM\1\METHODS\M2D6039.M
  Quant Title  : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

  TIC Library   : C:\DATABASE\NIST08.L
  TIC Integration Parameters: Lscint.p

                                                   |--Internal Standard---|
  TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------



   No Library Search Compounds Detected
   ************************************************************************
```

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144327.D
Acq On : 8 May 2015 7:08 pm
Operator : BridgetK
Sample : jb94209-14
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 08 22:03:05 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 23 17:12:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.559	65	79056	500.00	ug/L	0.00
5) pentafluorobenzene	10.307	168	332385	50.00	ug/L	0.00
63) 1,4-difluorobenzene	11.460	114	369403	50.00	ug/L	0.00
94) chlorobenzene-d5	15.670	117	337690	50.00	ug/L	0.00
109) 1,4-dichlorobenzene-d4	18.423	152	209614	50.00	ug/L	0.00
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.322	113	114325	47.83	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 95.66%			
55) 1,2-dichloroethane-d4 (s)	10.862	65	109326	44.27	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 88.54%			
86) toluene-d8 (s)	13.657	98	417466	49.87	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 99.74%			
111) 4-bromofluorobenzene (s)	17.149	95	160483	48.57	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 97.14%			

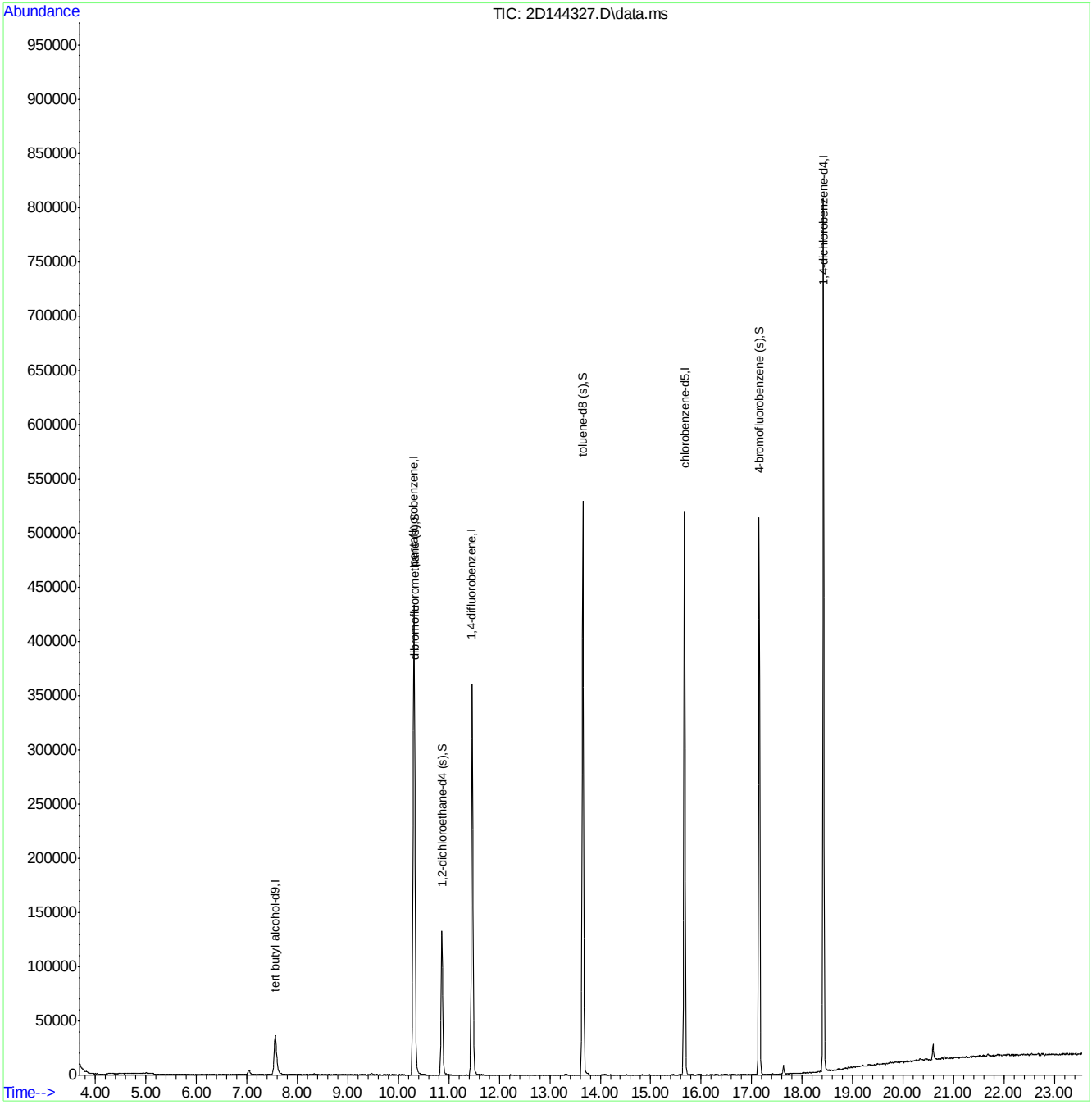
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144327.D
Acq On : 8 May 2015 7:08 pm
Operator : BridgetK
Sample : jb94209-14
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 08 22:03:05 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 23 17:12:49 2015
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144327.D
Acq On : 8 May 2015 7:08 pm
Operator : BridgetK
Sample : jb94209-14
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Signal : TIC: 2D144327.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.188	93	97	98	rBV2	376	367	0.03%	0.006%
2	4.219	100	103	106	rBV3	543	732	0.06%	0.011%
3	4.455	146	148	150	rBV2	595	587	0.05%	0.009%
4	4.586	171	173	175	rBV2	831	613	0.05%	0.010%
5	4.948	241	242	245	rBV3	716	553	0.05%	0.009%
6	5.457	338	339	343	rBV2	260	304	0.03%	0.005%
7	5.514	349	350	359	rVB2	472	483	0.04%	0.007%
8	5.583	360	363	365	rVB2	266	245	0.02%	0.004%
9	5.598	365	366	370	rBV3	225	282	0.02%	0.004%
10	5.677	378	381	383	rBV2	270	269	0.02%	0.004%
11	5.986	436	440	446	rVB4	335	412	0.04%	0.006%
12	6.353	505	510	512	rVV	175	228	0.02%	0.004%
13	6.374	512	514	519	rVV3	262	267	0.02%	0.004%
14	6.442	522	527	530	rBV3	190	335	0.03%	0.005%
15	6.500	537	538	544	rBV3	234	360	0.03%	0.006%
16	6.558	546	549	552	rBV2	266	375	0.03%	0.006%
17	6.857	604	606	608	rBV	491	414	0.04%	0.006%
18	7.045	631	642	655	rBV2	4153	12451	1.08%	0.193%
19	7.239	669	679	687	rBV3	523	1662	0.14%	0.026%
20	7.559	727	740	766	rBV2	35871	131646	11.37%	2.044%
21	7.774	779	781	784	rVB3	488	484	0.04%	0.008%
22	7.806	784	787	789	rBV2	395	367	0.03%	0.006%
23	7.827	789	791	795	rBV3	457	394	0.03%	0.006%
24	7.937	808	812	814	rBV3	275	328	0.03%	0.005%
25	8.026	827	829	833	rVB2	343	315	0.03%	0.005%
26	8.115	842	846	848	rBV3	303	358	0.03%	0.006%
27	8.330	879	887	899	rVB4	1164	2858	0.25%	0.044%
28	8.403	899	901	906	rBV2	218	322	0.03%	0.005%
29	8.618	936	942	944	rBV	207	256	0.02%	0.004%
30	9.095	1032	1033	1037	rBV2	203	246	0.02%	0.004%
31	9.462	1095	1103	1114	rVB5	1488	3827	0.33%	0.059%
32	9.562	1119	1122	1125	rBV2	187	243	0.02%	0.004%
33	9.824	1168	1172	1177	rBV3	235	303	0.03%	0.005%
34	9.887	1177	1184	1188	rBV3	178	423	0.04%	0.007%

M2D6039.M Fri May 08 22:03:12 2015 Page: 1

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144327.D
Acq On : 8 May 2015 7:08 pm
Operator : BridgetK
Sample : jb94209-14
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

35	10.023	1207	1210	1215	rVB2	237	293	0.03%	0.005%
36	10.076	1215	1220	1224	rBV5	436	724	0.06%	0.011%
37	10.312	1252	1265	1298	rBV2	433166	1157592	100.00%	17.974%
38	10.705	1338	1340	1344	rVB2	221	258	0.02%	0.004%
39	10.747	1344	1348	1351	rBV2	219	233	0.02%	0.004%
40	10.862	1359	1370	1385	rBV	132601	303282	26.20%	4.709%
41	11.203	1430	1435	1437	rVB2	209	280	0.02%	0.004%
42	11.345	1457	1462	1467	rVB2	329	366	0.03%	0.006%
43	11.376	1467	1468	1473	rVB2	198	267	0.02%	0.004%
44	11.460	1473	1484	1507	rBV	360408	777202	67.14%	12.068%
45	11.675	1523	1525	1531	rVB2	327	343	0.03%	0.005%
46	12.535	1686	1689	1694	rBV2	239	432	0.04%	0.007%
47	12.766	1728	1733	1735	rVB2	184	237	0.02%	0.004%
48	13.080	1788	1793	1800	rVB2	260	550	0.05%	0.009%
49	13.190	1811	1814	1817	rVB2	203	242	0.02%	0.004%
50	13.227	1818	1821	1825	rVB2	245	317	0.03%	0.005%
51	13.269	1825	1829	1830	rBV	245	278	0.02%	0.004%
52	13.311	1832	1837	1845	rVB4	568	1214	0.10%	0.019%
53	13.405	1851	1855	1857	rBV	241	263	0.02%	0.004%
54	13.657	1892	1903	1931	rBV	529336	1046359	90.39%	16.247%
55	14.029	1972	1974	1976	rVB	432	239	0.02%	0.004%
56	14.061	1976	1980	1982	rBV2	321	327	0.03%	0.005%
57	14.097	1982	1987	1992	rVB3	441	736	0.06%	0.011%
58	14.207	2006	2008	2015	rVB2	307	397	0.03%	0.006%
59	14.265	2015	2019	2020	rBV3	216	242	0.02%	0.004%
60	14.391	2041	2043	2050	rVB3	244	289	0.02%	0.004%
61	14.475	2056	2059	2062	rBV2	223	283	0.02%	0.004%
62	14.679	2095	2098	2104	rVB3	203	363	0.03%	0.006%
63	14.737	2104	2109	2112	rBV2	221	296	0.03%	0.005%
64	14.837	2124	2128	2132	rBV2	271	300	0.03%	0.005%
65	14.978	2152	2155	2158	rBV3	257	261	0.02%	0.004%
66	15.293	2214	2215	2220	rBV3	257	287	0.02%	0.004%
67	15.329	2220	2222	2227	rBV3	228	302	0.03%	0.005%
68	15.424	2232	2240	2242	rBV4	380	652	0.06%	0.010%
69	15.597	2269	2273	2276	rVV2	484	500	0.04%	0.008%
70	15.670	2276	2287	2301	rVV	519172	948461	81.93%	14.727%
71	15.749	2301	2302	2308	rVB4	564	566	0.05%	0.009%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144327.D
Acq On : 8 May 2015 7:08 pm
Operator : BridgetK
Sample : jb94209-14
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

72	15.812	2308	2314	2320	rBV4	518	937	0.08%	0.015%
73	15.959	2337	2342	2350	rVV3	841	1658	0.14%	0.026%
74	16.111	2370	2371	2377	rBV2	243	254	0.02%	0.004%
75	16.194	2383	2387	2389	rVB2	277	252	0.02%	0.004%
76	16.236	2392	2395	2398	rBV2	208	246	0.02%	0.004%
77	16.299	2399	2407	2409	rVB5	319	431	0.04%	0.007%
78	16.404	2421	2427	2431	rBV4	183	326	0.03%	0.005%
79	16.457	2434	2437	2439	rVV2	231	313	0.03%	0.005%
80	16.499	2439	2445	2451	rVB5	892	1502	0.13%	0.023%
81	16.603	2460	2465	2466	rBV3	231	274	0.02%	0.004%
82	16.661	2473	2476	2479	rVB2	374	426	0.04%	0.007%
83	16.693	2479	2482	2484	rBV2	329	300	0.03%	0.005%
84	16.745	2489	2492	2494	rVV3	289	307	0.03%	0.005%
85	16.787	2495	2500	2504	rVV3	382	592	0.05%	0.009%
86	16.839	2507	2510	2513	rVV3	293	321	0.03%	0.005%
87	16.892	2517	2520	2523	rBV2	261	282	0.02%	0.004%
88	17.033	2544	2547	2550	rVB4	262	264	0.02%	0.004%
89	17.149	2560	2569	2588	rVB	513418	825532	71.31%	12.818%
90	17.364	2606	2610	2613	rVV3	400	559	0.05%	0.009%
91	17.416	2617	2620	2622	rVV3	538	592	0.05%	0.009%
92	17.463	2626	2629	2633	rBV	421	469	0.04%	0.007%
93	17.489	2633	2634	2639	rVV2	424	524	0.05%	0.008%
94	17.579	2649	2651	2652	rVB2	597	297	0.03%	0.005%
95	17.631	2652	2661	2669	rBV2	8586	14528	1.26%	0.226%
96	17.767	2684	2687	2692	rBV4	621	956	0.08%	0.015%
97	18.024	2731	2736	2740	rVB6	846	1385	0.12%	0.022%
98	18.187	2764	2767	2772	rBV6	950	1545	0.13%	0.024%
99	18.423	2805	2812	2828	rBV	805734	1150492	99.39%	17.864%
100	20.593	3221	3226	3237	rBV	15008	26307	2.27%	0.408%

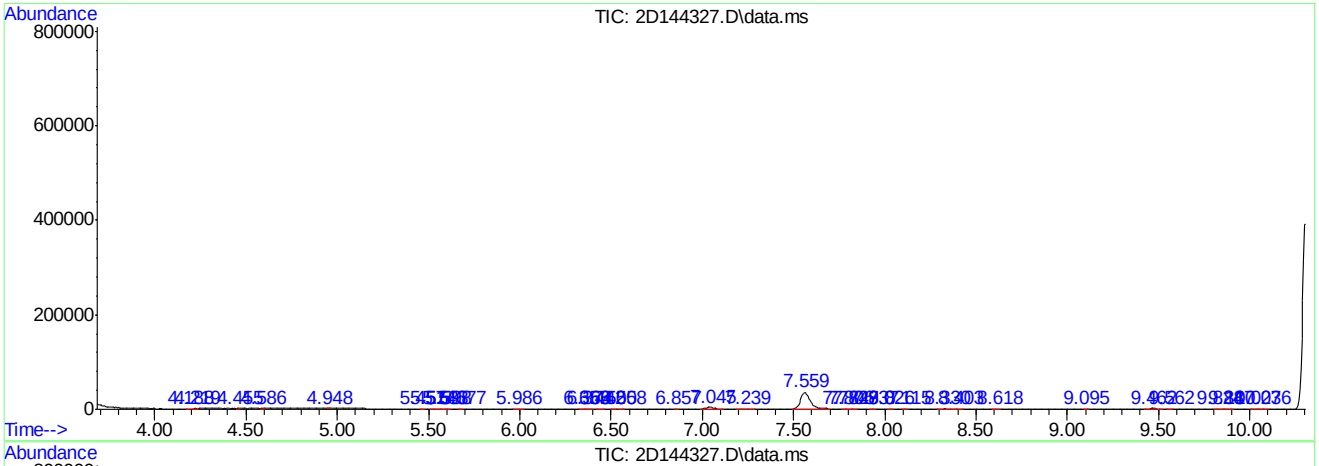
Sum of corrected areas: 6440413

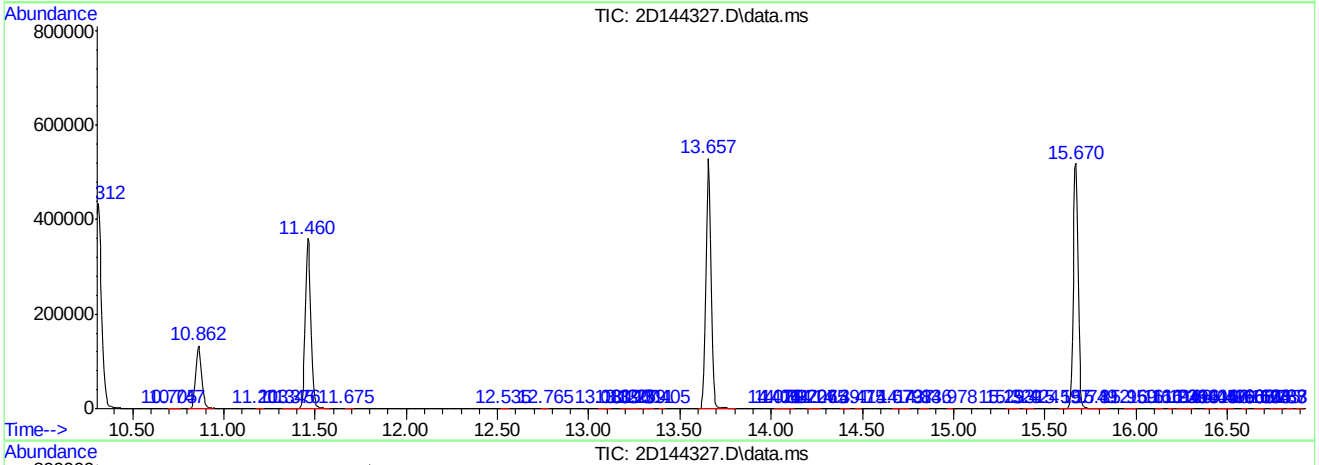
LSC Report - Integrated Chromatogram

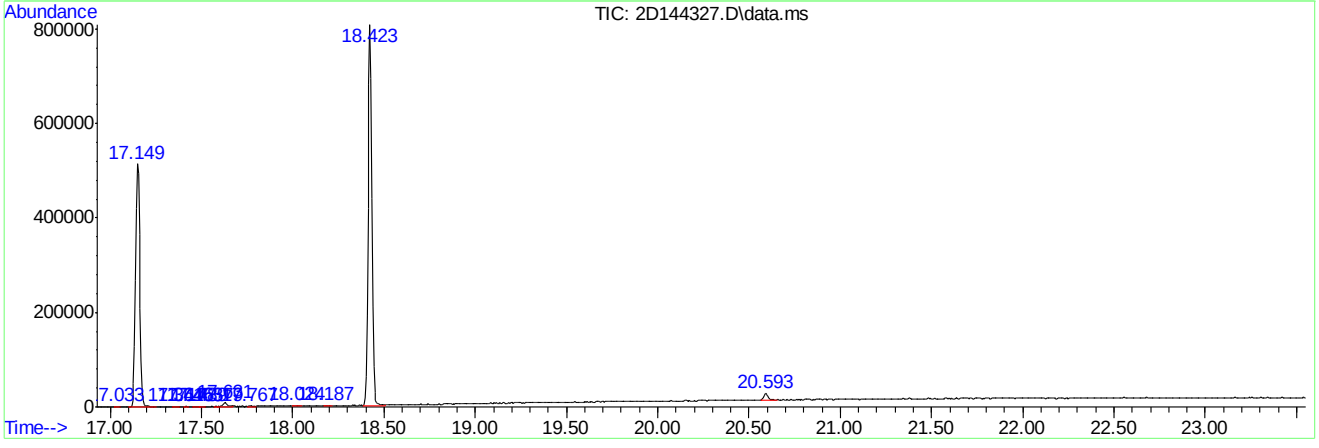
```
Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144327.D
Acq On    :  8 May 2015   7:08 pm
Operator  : BridgetK
Sample    : jb94209-14
Misc      : ms84863,v2d6061,5,,,,1
ALS Vial  : 17   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Quant Title  : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library    : C:\DATABASE\NIST08.L
TIC Integration Parameters: Lscint.p
```







Tentatively Identified Compound (LSC) summary

```
  Data Path : C:\msdchem\1\DATA\2d\v2d6061\
  Data File : 2D144327.D
  Acq On    :  8 May 2015   7:08 pm
  Operator  : BridgetK
  Sample    : jb94209-14
  Misc      : ms84863,v2d6061,5,,,,1
  ALS Vial  : 17   Sample Multiplier: 1

  Quant Method : C:\MSDCHEM\1\METHODS\M2D6039.M
  Quant Title  : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

  TIC Library   : C:\DATABASE\NIST08.L
  TIC Integration Parameters: Lscint.p

                                                   |--Internal Standard---|
  TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------



   No Library Search Compounds Detected
   ************************************************************************
```

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144328.D
Acq On : 8 May 2015 7:39 pm
Operator : BridgetK
Sample : jb94209-15
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 11 16:32:58 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 23 17:12:49 2015
Response via : Initial Calibration

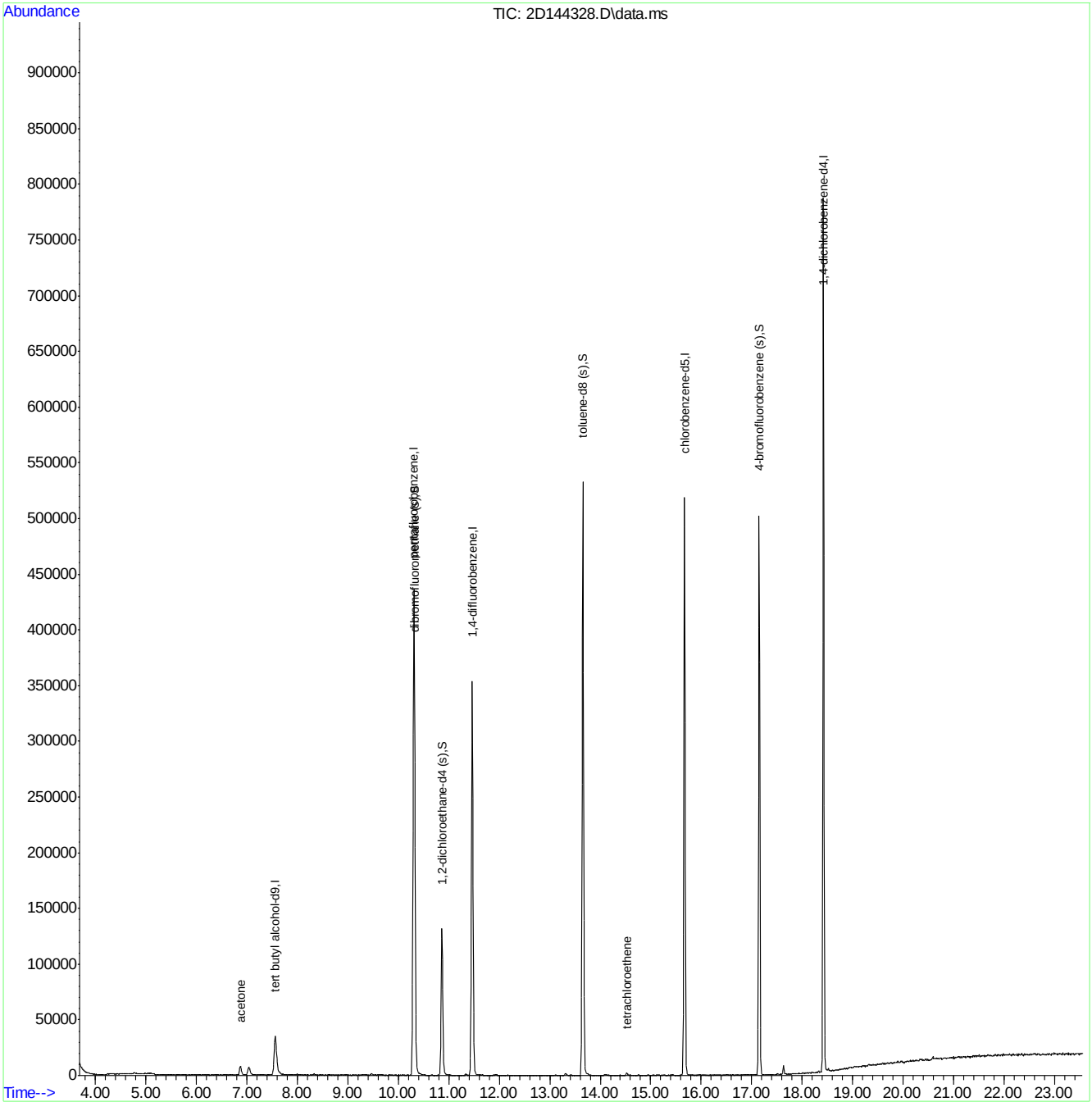
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.559	65	78782	500.00	ug/L	0.00
5) pentafluorobenzene	10.306	168	332789	50.00	ug/L	0.00
63) 1,4-difluorobenzene	11.465	114	369757	50.00	ug/L	0.00
94) chlorobenzene-d5	15.670	117	334190	50.00	ug/L	0.00
109) 1,4-dichlorobenzene-d4	18.423	152	204569	50.00	ug/L	0.00
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.322	113	114529	47.86	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 95.72%			
55) 1,2-dichloroethane-d4 (s)	10.862	65	108788	43.99	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 87.98%			
86) toluene-d8 (s)	13.657	98	415536	49.59	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 99.18%			
111) 4-bromofluorobenzene (s)	17.149	95	156676	48.59	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 97.18%			
Target Compounds						Qvalue
29) acetone	6.878	58	4714	30.60	ug/L #	84
96) tetrachloroethene	14.522	164	624	0.30	ug/L	84

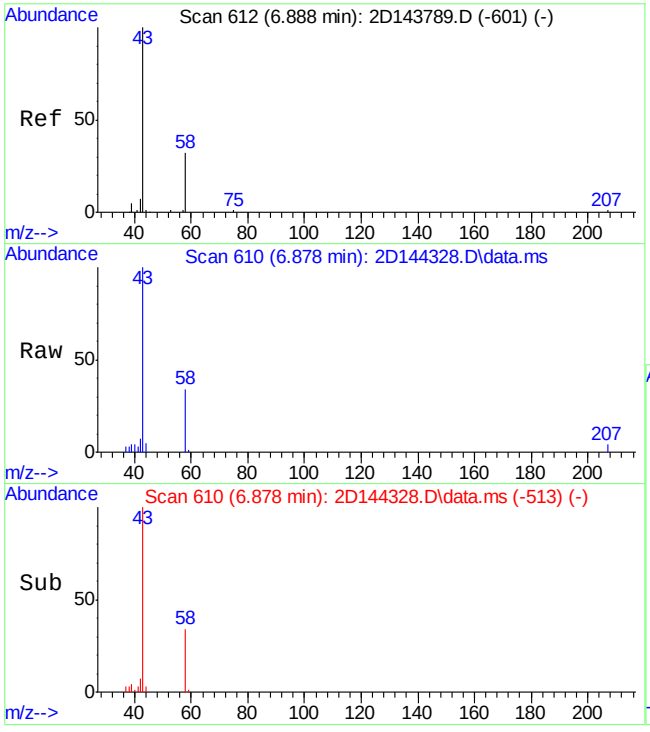
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144328.D
Acq On : 8 May 2015 7:39 pm
Operator : BridgetK
Sample : jb94209-15
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 11 16:32:58 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 23 17:12:49 2015
Response via : Initial Calibration

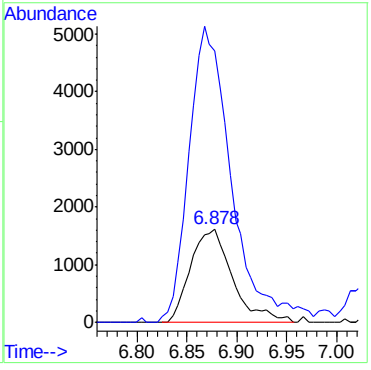


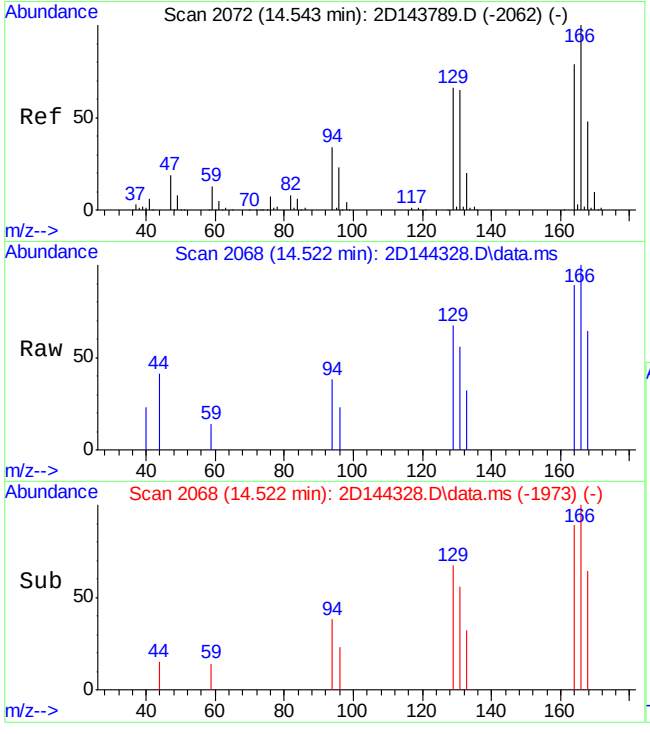


#29
acetone
Concen: 30.60 ug/L
RT: 6.878 min Scan# 610
Delta R.T. 0.011 min
Lab File: 2D144328.D
Acq: 8 May 2015 7:39 pm

Tgt Ion: 58 Resp: 4714

Ion	Ratio	Lower	Upper
58	100		
43	291.2	294.3	354.3#

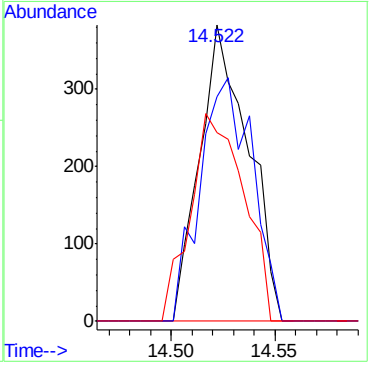




#96
tetrachloroethene
Concen: 0.30 ug/L
RT: 14.522 min Scan# 2068
Delta R.T. -0.000 min
Lab File: 2D144328.D
Acq: 8 May 2015 7:39 pm

Tgt Ion:164 Resp: 624

Ion	Ratio	Lower	Upper
164	100		
129	75.7	53.6	113.6
131	63.7	53.9	113.9



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144328.D
Acq On : 8 May 2015 7:39 pm
Operator : BridgetK
Sample : jb94209-15
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Signal : TIC: 2D144328.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.251	99	109	111	rBV3	599	1267	0.11%	0.020%
2	4.287	115	116	120	rVB3	626	521	0.05%	0.008%
3	4.392	134	136	139	rBV3	442	259	0.02%	0.004%
4	4.471	149	151	154	rBV2	561	644	0.06%	0.010%
5	4.707	193	196	197	rBV3	570	355	0.03%	0.006%
6	4.759	203	206	212	rBV4	694	1199	0.10%	0.019%
7	4.869	225	227	230	rBV3	556	293	0.03%	0.005%
8	5.037	257	259	261	rVB2	889	511	0.04%	0.008%
9	5.268	299	303	311	rVV3	322	516	0.04%	0.008%
10	5.320	312	313	315	rBV	562	263	0.02%	0.004%
11	5.488	343	345	350	rBV2	248	278	0.02%	0.004%
12	5.614	368	369	373	rBV2	282	262	0.02%	0.004%
13	5.656	375	377	386	rVB3	357	545	0.05%	0.008%
14	5.892	419	422	425	rBV3	345	373	0.03%	0.006%
15	6.033	446	449	455	rBV4	204	279	0.02%	0.004%
16	6.301	496	500	504	rBV3	226	320	0.03%	0.005%
17	6.463	529	531	533	rBV	262	246	0.02%	0.004%
18	6.531	541	544	547	rBV2	358	387	0.03%	0.006%
19	6.867	599	608	628	rBV2	7896	22856	1.97%	0.356%
20	7.035	628	640	654	rBV2	7075	21283	1.84%	0.332%
21	7.213	672	674	676	rBV2	371	253	0.02%	0.004%
22	7.559	726	740	767	rBV	35016	130451	11.27%	2.032%
23	7.826	788	791	793	rBV2	302	304	0.03%	0.005%
24	7.889	800	803	806	rBV2	437	343	0.03%	0.005%
25	7.994	817	823	830	rVB2	814	1081	0.09%	0.017%
26	8.141	847	851	857	rVV3	287	517	0.04%	0.008%
27	8.209	861	864	867	rVB2	435	365	0.03%	0.006%
28	8.325	879	886	897	rVB4	1133	2656	0.23%	0.041%
29	8.519	918	923	925	rBV3	240	295	0.03%	0.005%
30	8.555	925	930	931	rVV3	186	242	0.02%	0.004%
31	8.597	935	938	945	rVV4	277	467	0.04%	0.007%
32	8.644	945	947	951	rVB3	365	266	0.02%	0.004%
33	8.849	984	986	993	rBV2	310	401	0.03%	0.006%
34	9.289	1066	1070	1071	rBV2	423	365	0.03%	0.006%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144328.D
Acq On : 8 May 2015 7:39 pm
Operator : BridgetK
Sample : jb94209-15
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

35	9.316	1071	1075	1082	rVB3	541	798	0.07%	0.012%
36	9.478	1094	1106	1112	rBV3	1421	3526	0.30%	0.055%
37	9.541	1115	1118	1122	rVB2	225	325	0.03%	0.005%
38	9.599	1122	1129	1136	rBV2	620	1305	0.11%	0.020%
39	9.714	1149	1151	1157	rBV2	242	298	0.03%	0.005%
40	9.756	1157	1159	1164	rVB2	217	296	0.03%	0.005%
41	9.997	1202	1205	1210	rBV2	268	321	0.03%	0.005%
42	10.086	1218	1222	1227	rVB3	213	325	0.03%	0.005%
43	10.312	1249	1265	1285	rBV2	436119	1157409	100.00%	18.032%
44	10.605	1316	1321	1324	rVB2	175	251	0.02%	0.004%
45	10.658	1328	1331	1334	rVB2	542	386	0.03%	0.006%
46	10.862	1354	1370	1393	rBV	131640	306443	26.48%	4.774%
47	11.119	1412	1419	1424	rBV2	221	347	0.03%	0.005%
48	11.339	1455	1461	1471	rBV5	1174	2418	0.21%	0.038%
49	11.465	1471	1485	1505	rBV	353417	779387	67.34%	12.142%
50	11.654	1518	1521	1527	rVB4	416	545	0.05%	0.008%
51	11.691	1527	1528	1534	rVB2	198	288	0.02%	0.004%
52	11.921	1567	1572	1579	rVV4	538	1075	0.09%	0.017%
53	12.414	1662	1666	1668	rBV2	292	284	0.02%	0.004%
54	12.488	1678	1680	1684	rVB2	269	235	0.02%	0.004%
55	13.258	1823	1827	1828	rBV2	271	273	0.02%	0.004%
56	13.321	1828	1839	1847	rVB5	1640	3809	0.33%	0.059%
57	13.489	1864	1871	1873	rBV2	237	282	0.02%	0.004%
58	13.657	1891	1903	1929	rBV	532600	1041404	89.98%	16.224%
59	14.108	1982	1989	1998	rVB2	530	1430	0.12%	0.022%
60	14.254	2012	2017	2022	rVB4	225	467	0.04%	0.007%
61	14.365	2034	2038	2043	rBV2	258	346	0.03%	0.005%
62	14.527	2059	2069	2074	rBV4	2239	4405	0.38%	0.069%
63	14.747	2106	2111	2116	rBV3	305	585	0.05%	0.009%
64	14.884	2136	2137	2142	rBV2	224	256	0.02%	0.004%
65	14.999	2153	2159	2163	rBV2	219	400	0.03%	0.006%
66	15.120	2179	2182	2186	rBV2	306	417	0.04%	0.006%
67	15.172	2190	2192	2197	rVB	263	296	0.03%	0.005%
68	15.392	2229	2234	2236	rVV2	263	291	0.03%	0.005%
69	15.434	2236	2242	2248	rVB3	400	847	0.07%	0.013%
70	15.586	2266	2271	2274	rBV2	321	515	0.04%	0.008%
71	15.670	2274	2287	2303	rVB	518685	937468	81.00%	14.605%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144328.D
Acq On : 8 May 2015 7:39 pm
Operator : BridgetK
Sample : jb94209-15
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

72	15.764	2303	2305	2312	rBV3	380	587	0.05%	0.009%
73	15.969	2338	2344	2349	rBV4	514	992	0.09%	0.015%
74	16.063	2358	2362	2364	rBV3	286	326	0.03%	0.005%
75	16.105	2367	2370	2372	rVB2	363	316	0.03%	0.005%
76	16.137	2372	2376	2379	rBV3	377	474	0.04%	0.007%
77	16.173	2379	2383	2385	rVB2	309	349	0.03%	0.005%
78	16.210	2388	2390	2393	rVB2	360	337	0.03%	0.005%
79	16.268	2393	2401	2404	rBV3	330	774	0.07%	0.012%
80	16.430	2430	2432	2436	rVB2	324	262	0.02%	0.004%
81	16.504	2440	2446	2450	rBV3	487	871	0.08%	0.014%
82	16.572	2454	2459	2462	rBV3	583	687	0.06%	0.011%
83	16.949	2528	2531	2534	rBV2	318	253	0.02%	0.004%
84	17.091	2553	2558	2559	rBV4	264	322	0.03%	0.005%
85	17.149	2561	2569	2589	rVB	502340	809774	69.96%	12.616%
86	17.337	2602	2605	2608	rBV2	264	342	0.03%	0.005%
87	17.374	2608	2612	2614	rVV4	395	440	0.04%	0.007%
88	17.500	2633	2636	2639	rBV3	494	506	0.04%	0.008%
89	17.631	2655	2661	2674	rVB3	7953	13238	1.14%	0.206%
90	17.773	2686	2688	2690	rVB3	606	379	0.03%	0.006%
91	17.788	2690	2691	2693	rBV	797	394	0.03%	0.006%
92	17.946	2719	2721	2729	rBV6	618	911	0.08%	0.014%
93	18.008	2729	2733	2740	rVB9	1024	2128	0.18%	0.033%
94	18.066	2740	2744	2745	rBV3	792	928	0.08%	0.014%
95	18.087	2746	2748	2754	rVB4	544	704	0.06%	0.011%
96	18.197	2767	2769	2773	rBV3	1003	863	0.07%	0.013%
97	18.328	2791	2794	2798	rBV4	1554	1702	0.15%	0.027%
98	18.360	2798	2800	2803	rBV4	727	971	0.08%	0.015%
99	18.423	2805	2812	2825	rBV	784782	1133427	97.93%	17.658%
100	18.522	2827	2831	2842	rVB7	2800	5066	0.44%	0.079%

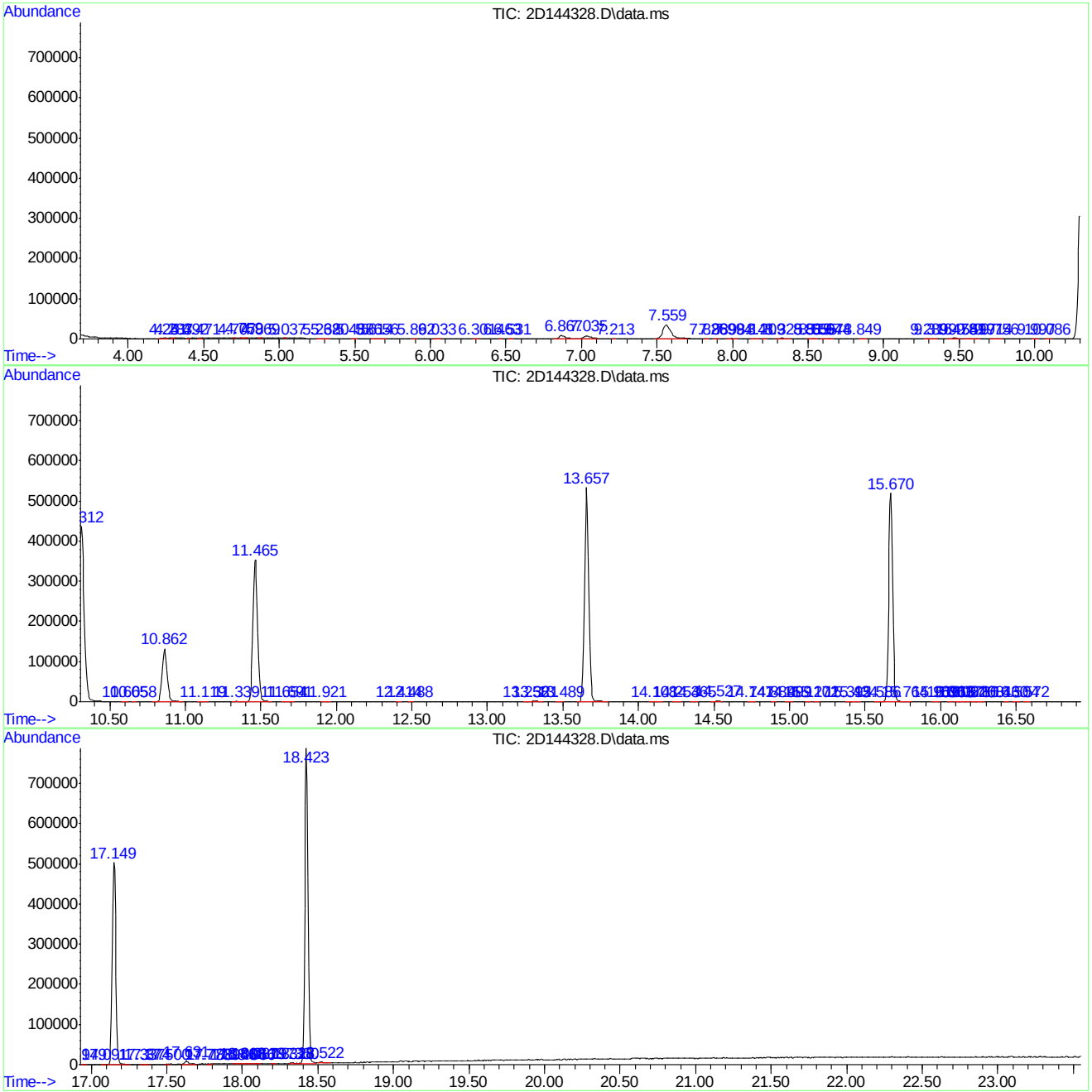
Sum of corrected areas: 6418739

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144328.D
Acq On : 8 May 2015 7:39 pm
Operator : BridgetK
Sample : jb94209-15
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: Lscint.p



M2D6039.M Mon May 11 16:33:12 2015 Page: 4

Tentatively Identified Compound (LSC) summary

```
  Data Path : C:\msdchem\1\DATA\2d\v2d6061\
  Data File : 2D144328.D
  Acq On    :  8 May 2015   7:39 pm
  Operator  : BridgetK
  Sample    : jb94209-15
  Misc      : ms84863,v2d6061,5,,,,1
  ALS Vial  : 18   Sample Multiplier: 1

  Quant Method : C:\MSDCHEM\1\METHODS\M2D6039.M
  Quant Title  : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

  TIC Library   : C:\DATABASE\NIST08.L
  TIC Integration Parameters: Lscint.p

                                                   |--Internal Standard---|
  TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------



   No Library Search Compounds Detected
   ************************************************************************
```

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144329.D
Acq On : 8 May 2015 8:09 pm
Operator : BridgetK
Sample : jb94209-16
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 11 16:34:04 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 23 17:12:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.559	65	73437	500.00	ug/L	0.00
5) pentafluorobenzene	10.307	168	312122	50.00	ug/L	0.00
63) 1,4-difluorobenzene	11.465	114	345503	50.00	ug/L	0.00
94) chlorobenzene-d5	15.670	117	316697	50.00	ug/L	0.00
109) 1,4-dichlorobenzene-d4	18.423	152	197933	50.00	ug/L	0.00
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.322	113	106819	47.59	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 95.18%			
55) 1,2-dichloroethane-d4 (s)	10.862	65	102499	44.20	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 88.40%			
86) toluene-d8 (s)	13.657	98	385876	49.29	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 98.58%			
111) 4-bromofluorobenzene (s)	17.149	95	154444	49.50	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 99.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

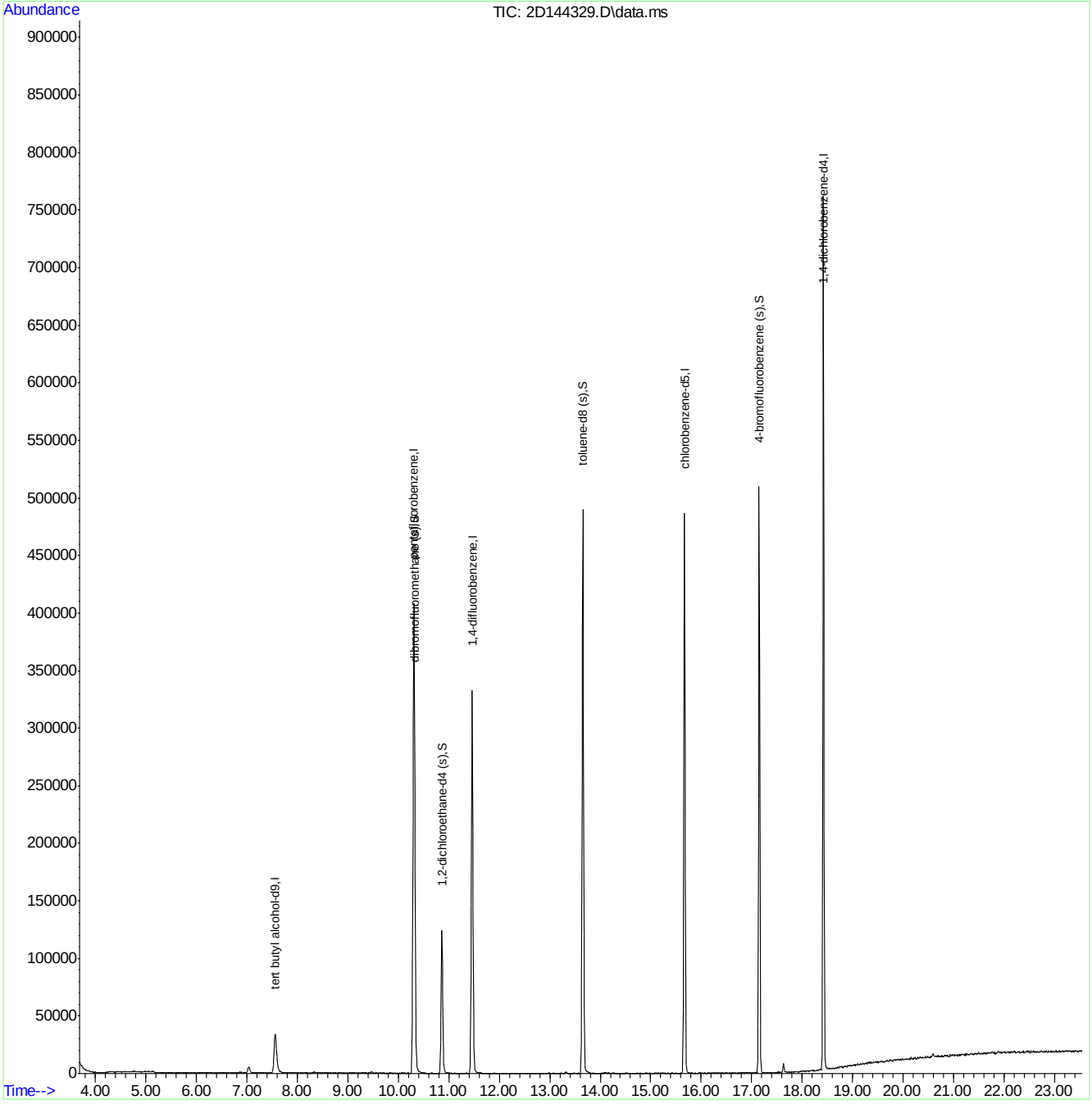
7.1.31

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144329.D
Acq On : 8 May 2015 8:09 pm
Operator : BridgetK
Sample : jb94209-16
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 11 16:34:04 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 23 17:12:49 2015
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144329.D
Acq On : 8 May 2015 8:09 pm
Operator : BridgetK
Sample : jb94209-16
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Signal : TIC: 2D144329.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.188	96	97	100	rBV2	316	269	0.02%	0.004%
2	4.235	102	106	107	rBV2	411	405	0.04%	0.007%
3	4.267	109	112	115	rVV4	491	582	0.05%	0.010%
4	4.466	149	150	160	rVB4	786	1388	0.13%	0.023%
5	4.749	202	204	215	rVB7	675	1958	0.18%	0.032%
6	4.980	247	248	252	rVB4	555	498	0.05%	0.008%
7	5.226	293	295	299	rVB	286	272	0.02%	0.004%
8	5.347	316	318	321	rVB2	386	253	0.02%	0.004%
9	5.410	329	330	337	rBV3	265	322	0.03%	0.005%
10	5.635	370	373	375	rVB3	295	246	0.02%	0.004%
11	5.782	396	401	404	rBV2	244	415	0.04%	0.007%
12	5.944	429	432	438	rBV2	341	487	0.04%	0.008%
13	6.070	454	456	461	rBV2	243	261	0.02%	0.004%
14	6.117	463	465	469	rVB3	278	238	0.02%	0.004%
15	6.621	557	561	567	rVB2	234	385	0.04%	0.006%
16	6.668	567	570	573	rBV3	276	284	0.03%	0.005%
17	6.741	583	584	588	rBV2	282	270	0.02%	0.004%
18	6.857	598	606	608	rBV3	855	1072	0.10%	0.018%
19	6.883	608	611	616	rVB3	869	1294	0.12%	0.021%
20	6.930	618	620	624	rBV2	260	291	0.03%	0.005%
21	7.040	631	641	654	rBV2	5066	15272	1.39%	0.252%
22	7.213	671	674	682	rVB3	508	731	0.07%	0.012%
23	7.308	689	692	695	rVB2	395	350	0.03%	0.006%
24	7.349	696	700	703	rBV2	211	265	0.02%	0.004%
25	7.559	725	740	775	rBV	34118	127320	11.61%	2.098%
26	8.026	826	829	830	rVB3	364	252	0.02%	0.004%
27	8.110	841	845	846	rBV3	260	322	0.03%	0.005%
28	8.131	846	849	852	rVV2	318	322	0.03%	0.005%
29	8.325	875	886	897	rBV5	919	2845	0.26%	0.047%
30	8.692	953	956	959	rVB2	708	414	0.04%	0.007%
31	8.770	970	971	974	rBV2	317	291	0.03%	0.005%
32	8.797	974	976	981	rVV2	284	359	0.03%	0.006%
33	9.305	1065	1073	1076	rBV4	237	532	0.05%	0.009%
34	9.462	1094	1103	1117	rVB3	1490	3798	0.35%	0.063%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144329.D
Acq On : 8 May 2015 8:09 pm
Operator : BridgetK
Sample : jb94209-16
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

35	9.557	1117	1121	1123	rBV2	206	263	0.02%	0.004%
36	9.620	1131	1133	1136	rVB	254	232	0.02%	0.004%
37	10.029	1208	1211	1214	rBV2	213	254	0.02%	0.004%
38	10.065	1214	1218	1226	rVB3	369	692	0.06%	0.011%
39	10.186	1236	1241	1243	rBV3	209	287	0.03%	0.005%
40	10.307	1249	1264	1300	rBV2	408726	1089935	99.39%	17.964%
41	10.532	1304	1307	1309	rBV2	200	222	0.02%	0.004%
42	10.600	1317	1320	1323	rVB	315	406	0.04%	0.007%
43	10.632	1323	1326	1328	rBV	336	353	0.03%	0.006%
44	10.663	1328	1332	1336	rVV2	416	546	0.05%	0.009%
45	10.705	1336	1340	1345	rVB2	200	351	0.03%	0.006%
46	10.862	1358	1370	1387	rBV	124453	285859	26.07%	4.711%
47	10.962	1387	1389	1397	rVV3	740	1296	0.12%	0.021%
48	11.009	1397	1398	1403	rVB2	258	256	0.02%	0.004%
49	11.345	1459	1462	1470	rBV2	353	530	0.05%	0.009%
50	11.460	1473	1484	1510	rBV	332788	728004	66.38%	11.999%
51	12.634	1705	1708	1710	rBV2	241	239	0.02%	0.004%
52	12.823	1742	1744	1748	rBV2	176	242	0.02%	0.004%
53	12.975	1768	1773	1775	rBV	270	295	0.03%	0.005%
54	13.043	1780	1786	1789	rVV3	135	230	0.02%	0.004%
55	13.075	1789	1792	1796	rVB2	277	248	0.02%	0.004%
56	13.117	1796	1800	1802	rBV2	215	243	0.02%	0.004%
57	13.227	1818	1821	1825	rBV	258	264	0.02%	0.004%
58	13.321	1829	1839	1845	rBV3	1256	2250	0.21%	0.037%
59	13.526	1873	1878	1879	rVB3	234	224	0.02%	0.004%
60	13.657	1889	1903	1929	rVB	489580	973145	88.74%	16.039%
61	13.814	1929	1933	1935	rBV	428	373	0.03%	0.006%
62	14.097	1978	1987	1996	rBV3	643	1486	0.14%	0.024%
63	14.244	2012	2015	2017	rBV	289	241	0.02%	0.004%
64	14.470	2053	2058	2061	rBV3	192	274	0.02%	0.005%
65	14.664	2091	2095	2099	rVB2	151	242	0.02%	0.004%
66	14.732	2105	2108	2113	rBV3	273	390	0.04%	0.006%
67	14.789	2115	2119	2125	rVB3	248	388	0.04%	0.006%
68	14.926	2143	2145	2153	rBV3	306	564	0.05%	0.009%
69	14.978	2153	2155	2158	rBV	263	228	0.02%	0.004%
70	15.025	2163	2164	2170	rBV2	218	340	0.03%	0.006%
71	15.078	2170	2174	2176	rVV2	231	222	0.02%	0.004%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144329.D
Acq On : 8 May 2015 8:09 pm
Operator : BridgetK
Sample : jb94209-16
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

72	15.109	2178	2180	2183	rVB3	311	286	0.03%	0.005%
73	15.146	2183	2187	2189	rBV2	269	312	0.03%	0.005%
74	15.434	2234	2242	2244	rVB4	368	518	0.05%	0.009%
75	15.497	2250	2254	2259	rVB3	191	228	0.02%	0.004%
76	15.670	2270	2287	2307	rBV	486665	894514	81.57%	14.743%
77	15.791	2307	2310	2312	rVV	363	348	0.03%	0.006%
78	15.817	2312	2315	2320	rVB3	360	460	0.04%	0.008%
79	15.953	2336	2341	2348	rBV3	848	1088	0.10%	0.018%
80	16.069	2357	2363	2365	rBV3	188	234	0.02%	0.004%
81	16.509	2442	2447	2449	rBV2	406	397	0.04%	0.007%
82	16.551	2454	2455	2462	rBV3	219	305	0.03%	0.005%
83	16.735	2485	2490	2492	rBV2	331	433	0.04%	0.007%
84	16.782	2496	2499	2501	rBV2	332	347	0.03%	0.006%
85	16.887	2512	2519	2523	rBV3	550	698	0.06%	0.012%
86	16.923	2523	2526	2531	rVB5	239	369	0.03%	0.006%
87	16.970	2531	2535	2537	rBV3	219	254	0.02%	0.004%
88	17.007	2540	2542	2544	rBV3	323	298	0.03%	0.005%
89	17.149	2561	2569	2591	rBV	509269	793341	72.34%	13.075%
90	17.311	2596	2600	2604	rBV4	334	354	0.03%	0.006%
91	17.364	2607	2610	2612	rVB4	311	280	0.03%	0.005%
92	17.516	2636	2639	2642	rBV4	640	616	0.06%	0.010%
93	17.563	2642	2648	2651	rBV2	629	1094	0.10%	0.018%
94	17.631	2654	2661	2668	rBV3	8158	13077	1.19%	0.216%
95	17.736	2676	2681	2683	rBV3	454	505	0.05%	0.008%
96	17.857	2700	2704	2707	rBV5	537	737	0.07%	0.012%
97	17.946	2718	2721	2722	rBV4	585	529	0.05%	0.009%
98	18.082	2744	2747	2749	rBV4	951	931	0.08%	0.015%
99	18.286	2777	2786	2788	rBV8	914	2370	0.22%	0.039%
100	18.423	2804	2812	2827	rBV	759283	1096643	100.00%	18.074%

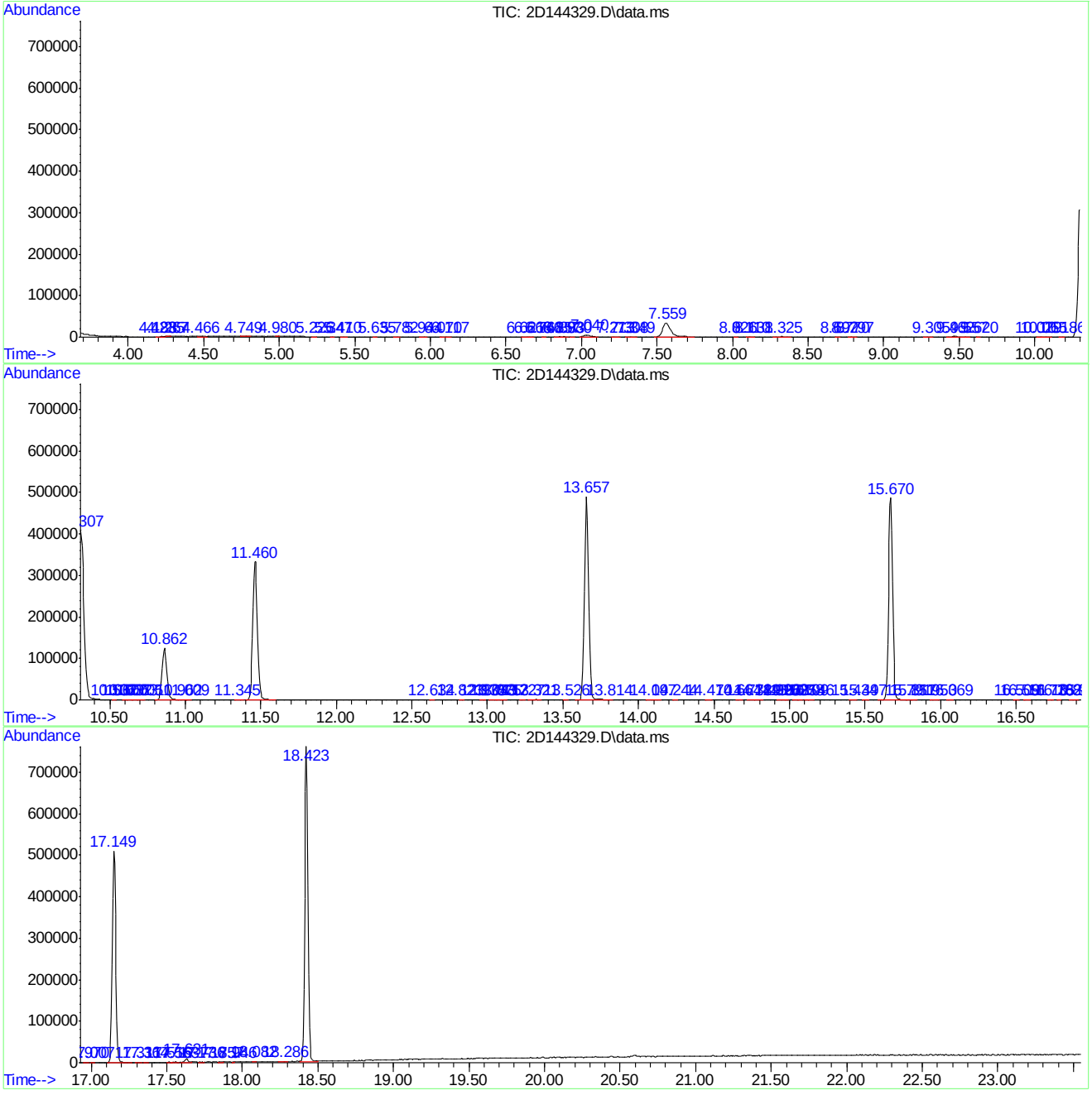
Sum of corrected areas: 6067443

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144329.D
Acq On : 8 May 2015 8:09 pm
Operator : BridgetK
Sample : jb94209-16
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: Lscint.p



Tentatively Identified Compound (LSC) summary

```
  Data Path : C:\msdchem\1\DATA\2d\v2d6061\
  Data File : 2D144329.D
  Acq On    :  8 May 2015   8:09 pm
  Operator  : BridgetK
  Sample    : jb94209-16
  Misc      : ms84863,v2d6061,5,,,,1
  ALS Vial  : 19   Sample Multiplier: 1

  Quant Method : C:\MSDCHEM\1\METHODS\M2D6039.M
  Quant Title  : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

  TIC Library   : C:\DATABASE\NIST08.L
  TIC Integration Parameters: Lscint.p

                                                   |--Internal Standard---|
  TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------



   No Library Search Compounds Detected
   ************************************************************************
```

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 05/12/15 16:04

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8197\
Data File : I204010.D
Acq On : 12 May 2015 3:06 am
Operator : SCOTTM
Sample : JB94209-18
Misc : MS84864,VI8197,,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Time: May 12 12:59:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon May 11 11:02:06 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.201	65	123266	500.00 ug/L	0.00
5) pentafluorobenzene	9.445	168	271128	50.00 ug/L	0.00
48) 1,4-difluorobenzene	10.366	114	334242	50.00 ug/L	0.00
79) chlorobenzene-d5	13.525	117	269556	50.00 ug/L	0.00
94) 1,4-dichlorobenzene-d4	15.842	152	144253	50.00 ug/L	0.00

System Monitoring Compounds					
45) dibromofluoromethane (s)	9.471	113	138869	48.70 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 97.40%		
49) 1,2-dichloroethane-d4...	9.895	65	137061	45.88 ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 91.76%		
80) toluene-d8 (s)	12.024	98	539969	47.95 ug/L	0.00
Spiked Amount 50.000	Range 78 - 129		Recovery = 95.90%		
95) 4-bromofluorobenzene (s)	14.675	95	189014	47.32 ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 94.64%		

Target Compounds					Qvalue
18) acetone	6.542	58	2077m	8.79 ug/L	
24) methylene chloride	7.191	84	4704	1.25 ug/L #	64
73) toluene	12.097	91	3711	0.28 ug/L #	90
89) ethylbenzene	13.629	91	2963	0.21 ug/L	91
90) m,p-xylene	13.739	106	5046	0.97 ug/L	66
91) o-xylene	14.152	106	1590	0.30 ug/L	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

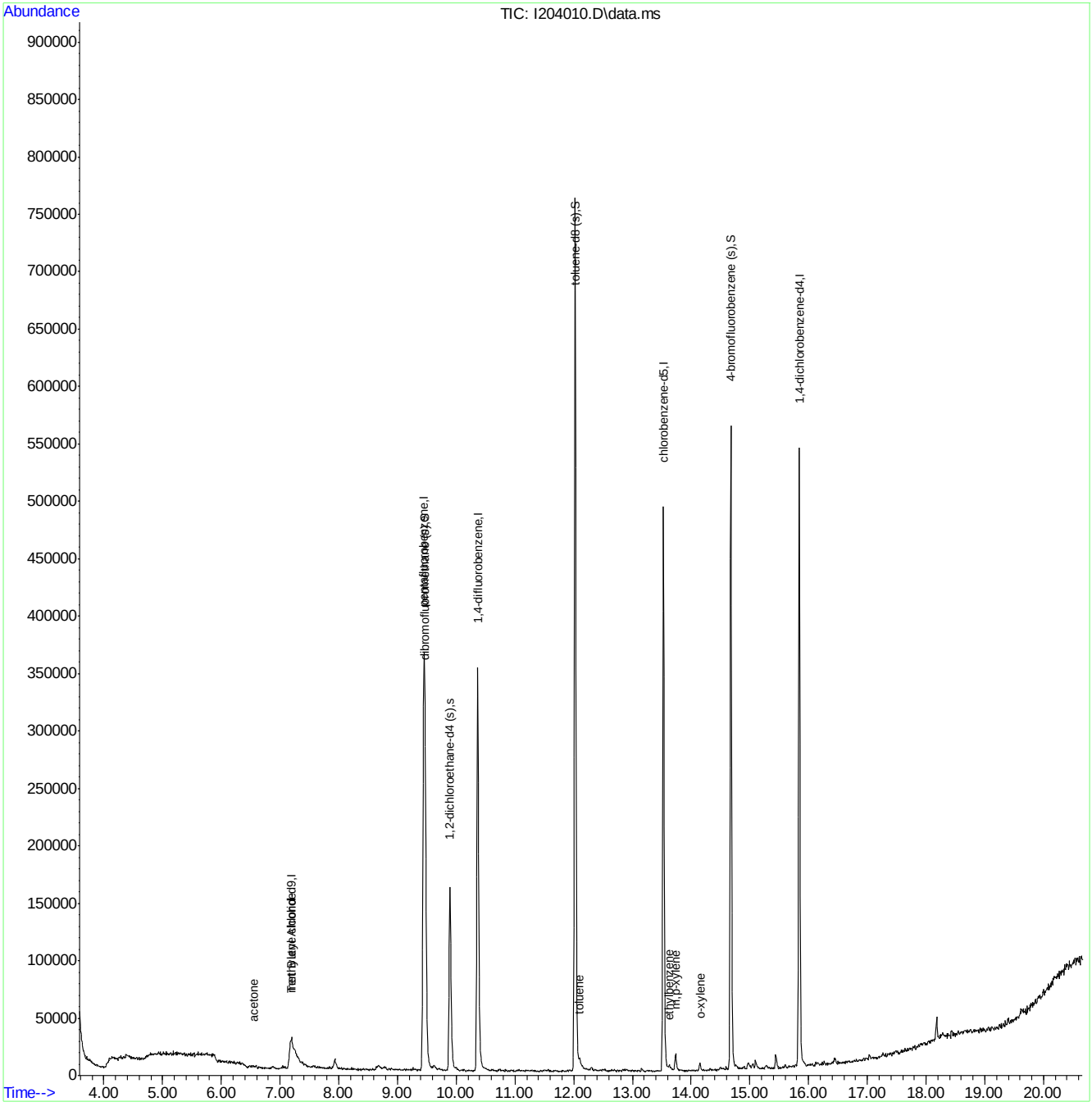
7.1.33

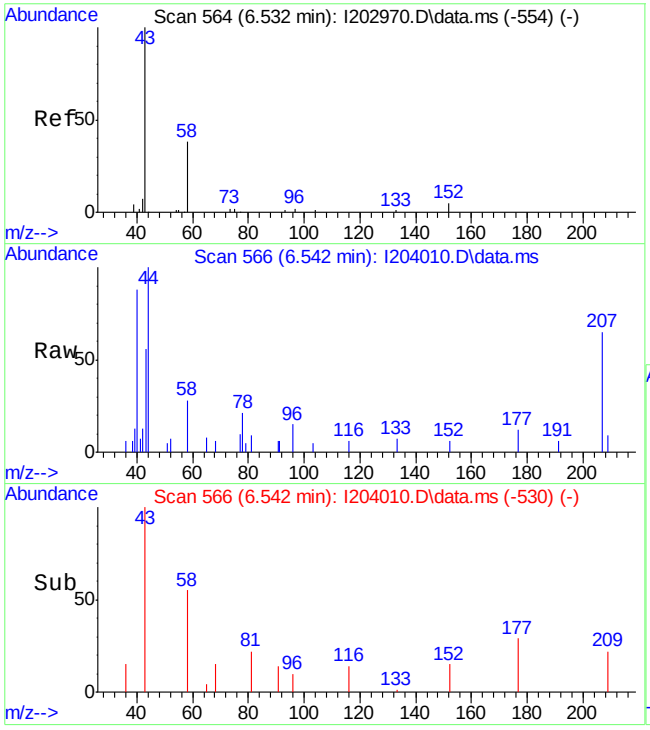
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8197\
Data File : I204010.D
Acq On : 12 May 2015 3:06 am
Operator : SCOTTM
Sample : JB94209-18
Misc : MS84864,VI8197,,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Time: May 12 12:59:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon May 11 11:02:06 2015
Response via : Initial Calibration

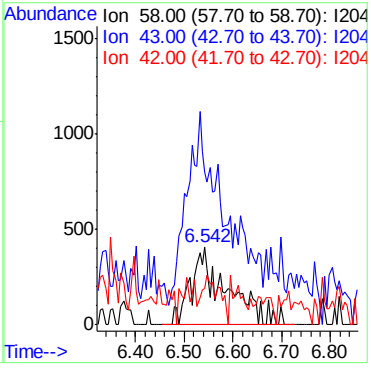


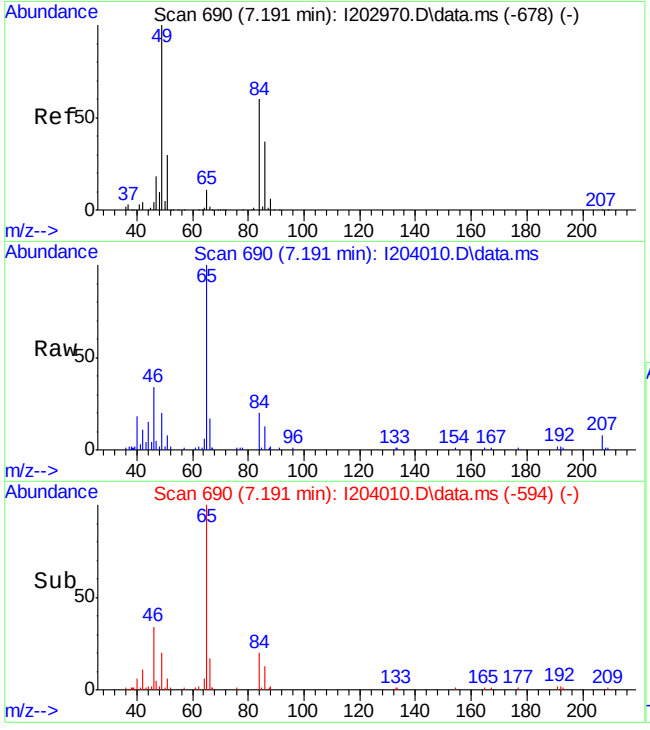


#18
acetone
Concen: 8.79 ug/L m
RT: 6.542 min Scan# 566
Delta R.T. 0.011 min
Lab File: I204010.D
Acq: 12 May 2015 3:06 am

Tgt Ion: 58 Resp: 2077

Ion	Ratio	Lower	Upper
58	100		
43	196.1	272.8	332.8#
42	46.9	2.5	62.5

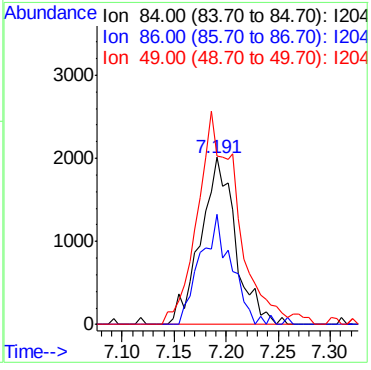


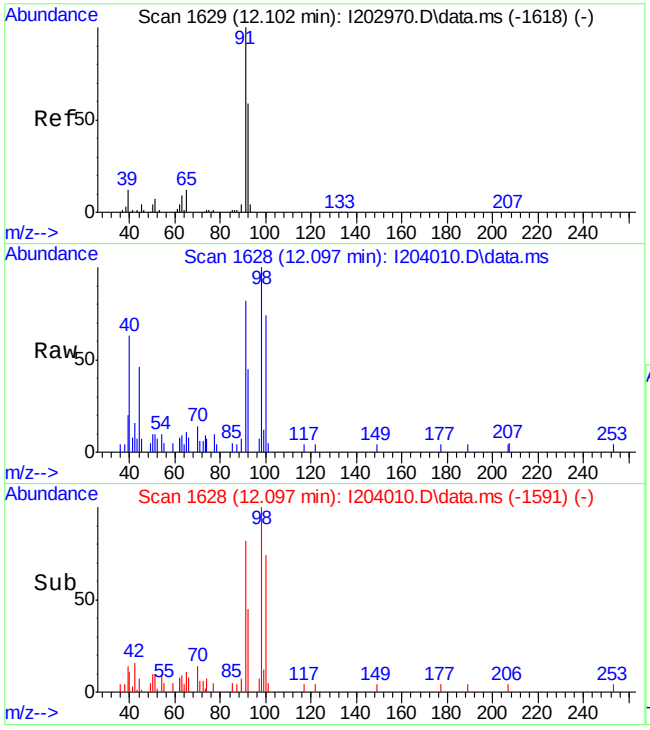


#24
methylene chloride
Concen: 1.25 ug/L
RT: 7.191 min Scan# 690
Delta R.T. 0.000 min
Lab File: I204010.D
Acq: 12 May 2015 3:06 am

Tgt Ion: 84 Resp: 4704

Ion	Ratio	Lower	Upper
84	100		
86	65.8	32.0	92.0
49	100.8	135.5	195.5#

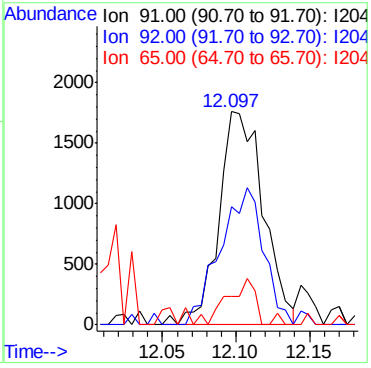


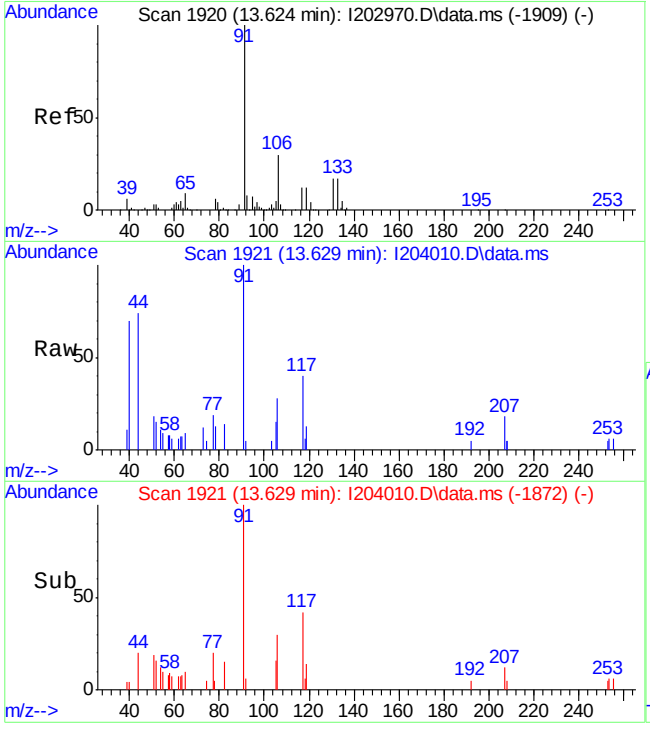


#73
toluene
Concen: 0.28 ug/L
RT: 12.097 min Scan# 1628
Delta R.T. -0.005 min
Lab File: I204010.D
Acq: 12 May 2015 3:06 am

Tgt Ion: 91 Resp: 3711

Ion	Ratio	Lower	Upper
91	100		
92	62.7	38.7	78.7
65	0.0	0.0	32.5

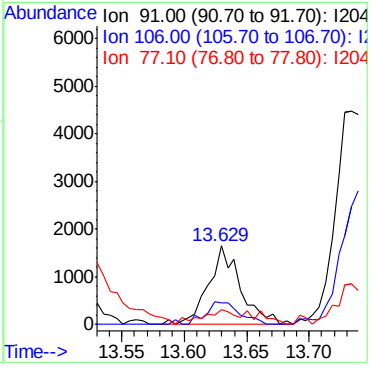


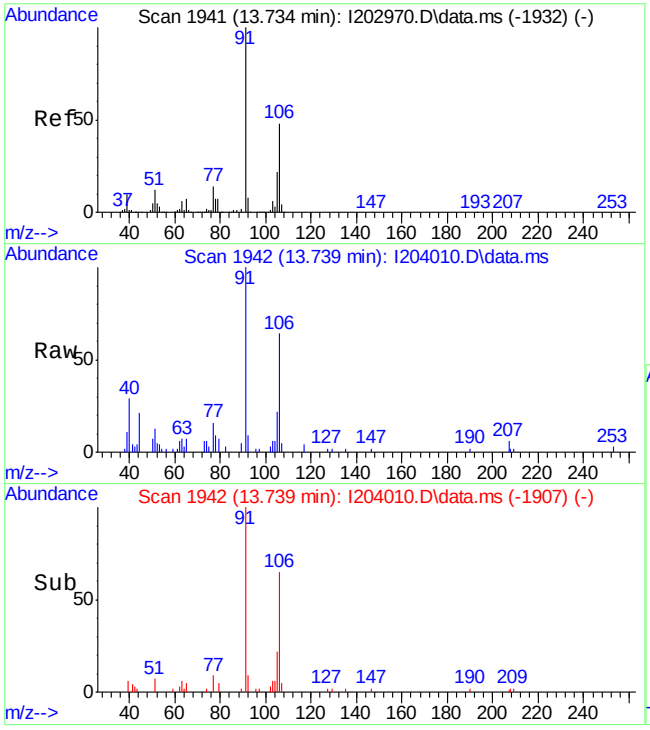


#89
ethylbenzene
Concen: 0.21 ug/L
RT: 13.629 min Scan# 1921
Delta R.T. 0.005 min
Lab File: I204010.D
Acq: 12 May 2015 3:06 am

Tgt Ion: 91 Resp: 2963

Ion	Ratio	Lower	Upper
91	100		
106	28.1	0.0	59.6
77	18.7	0.0	38.5

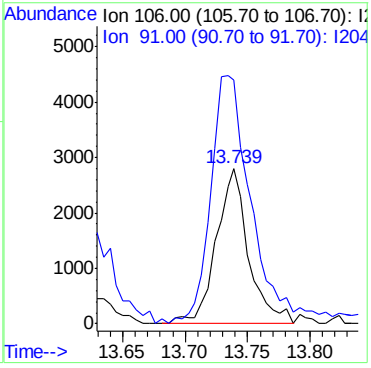


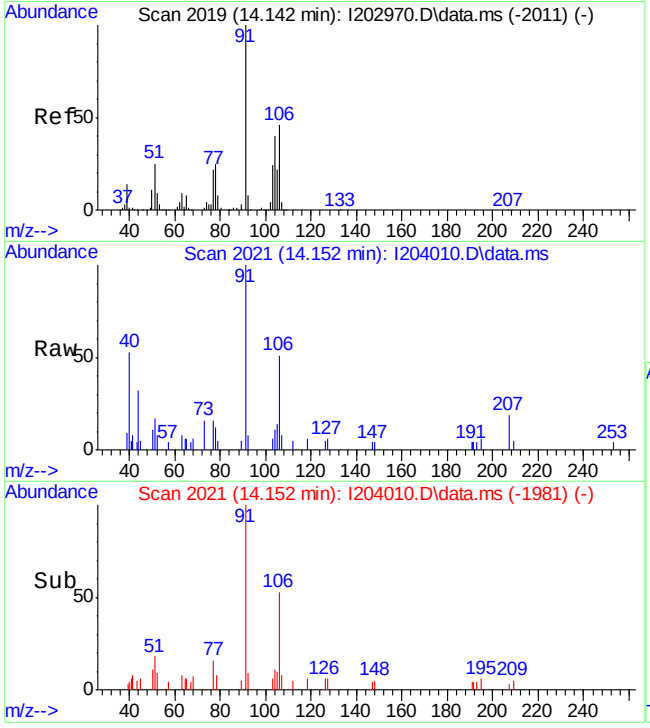


#90
m,p-xylene
Concen: 0.97 ug/L
RT: 13.739 min Scan# 1942
Delta R.T. 0.005 min
Lab File: I204010.D
Acq: 12 May 2015 3:06 am

Tgt Ion:106 Resp: 5046

Ion	Ratio	Lower	Upper
106	100		
91	154.2	145.4	270.0

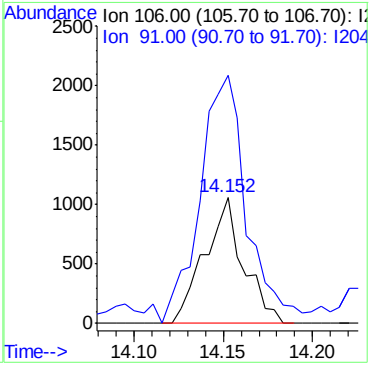




#91
o-xylene
Concen: 0.30 ug/L
RT: 14.152 min Scan# 2021
Delta R.T. 0.011 min
Lab File: I204010.D
Acq: 12 May 2015 3:06 am

Tgt Ion:106 Resp: 1590

Ion	Ratio	Lower	Upper
106	100		
91	196.2	152.7	283.7



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8197\
Data File : I204010.D
Acq On : 12 May 2015 3:06 am
Operator : SCOTTM
Sample : JB94209-18
Misc : MS84864,VI8197,,,,,1
ALS Vial : 36 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

Signal : TIC: I20401

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.095	83	98	103	rBV9	8219	28602	2.04%	0.401%
2	4.257	126	129	130	rBV3	2675	2915	0.21%	0.041%
3	4.377	150	152	168	rVB3	4305	13518	0.96%	0.189%
4	4.644	200	203	208	rBV7	2001	3748	0.27%	0.053%
5	6.025	464	467	472	rVB6	1364	2045	0.15%	0.029%
6	6.134	485	488	493	rBV6	2061	3099	0.22%	0.043%
7	6.265	511	513	514	rBV2	2395	1817	0.13%	0.025%
8	6.307	519	521	523	rVB3	2076	1818	0.13%	0.025%
9	6.589	573	575	580	rVB6	3085	3471	0.25%	0.049%
10	6.637	580	584	588	rBV6	2232	3307	0.24%	0.046%
11	6.705	596	597	603	rBV4	1386	2043	0.15%	0.029%
12	6.867	624	628	630	rBV4	2349	3466	0.25%	0.049%
13	7.045	660	662	664	rBV3	2423	1888	0.13%	0.026%
14	7.201	677	692	720	rBV5	27293	180484	12.88%	2.529%
15	7.568	759	762	766	rBV6	1781	1978	0.14%	0.028%
16	7.594	766	767	773	rVB5	2688	2512	0.18%	0.035%
17	7.636	773	775	783	rVB7	2079	3128	0.22%	0.044%
18	7.840	813	814	822	rVV6	1906	2688	0.19%	0.038%
19	7.934	825	832	844	rVB6	8747	24358	1.74%	0.341%
20	8.326	903	907	908	rVB3	1803	1816	0.13%	0.025%
21	8.530	944	946	951	rBV4	1745	1951	0.14%	0.027%
22	8.572	952	954	960	rVV3	1821	2293	0.16%	0.032%
23	8.676	961	974	982	rVV5	4175	16571	1.18%	0.232%
24	8.776	989	993	996	rVV6	3086	4399	0.31%	0.062%
25	8.802	996	998	1003	rVB5	3000	3321	0.24%	0.047%
26	8.854	1003	1008	1012	rVB5	1708	2673	0.19%	0.037%
27	8.896	1012	1016	1018	rBV6	1852	2132	0.15%	0.030%
28	9.142	1062	1063	1070	rBV7	1723	2446	0.17%	0.034%
29	9.267	1081	1087	1093	rBV6	3011	5818	0.42%	0.082%
30	9.450	1110	1122	1148	rVV2	364819	1217925	86.91%	17.063%
31	9.628	1152	1156	1166	rVB10	3875	9074	0.65%	0.127%
32	9.701	1166	1170	1172	rBV4	1595	2079	0.15%	0.029%
33	9.749	1178	1179	1184	rVB4	1472	2079	0.15%	0.029%
34	9.890	1193	1206	1224	rBV	159493	383343	27.36%	5.371%

MI8156.M Tue May 12 13:13:28 2015 RPT1 Page: 1

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8197\
Data File : I204010.D
Acq On : 12 May 2015 3:06 am
Operator : SCOTTM
Sample : JB94209-18
Misc : MS84864,VI8197,,,,,1
ALS Vial : 36 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

35	10.031	1230	1233	1240	rVB6	1540	2364	0.17%	0.033%
36	10.136	1251	1253	1259	rVB6	1902	2511	0.18%	0.035%
37	10.308	1282	1286	1288	rBV5	1765	2083	0.15%	0.029%
38	10.366	1288	1297	1319	rBV	351204	764293	54.54%	10.708%
39	11.040	1418	1426	1428	rBV4	1169	2125	0.15%	0.030%
40	11.438	1496	1502	1506	rBV7	1525	2209	0.16%	0.031%
41	11.516	1512	1517	1518	rVV4	1567	2337	0.17%	0.033%
42	11.940	1592	1598	1603	rBV7	1412	2599	0.19%	0.036%
43	12.024	1603	1614	1626	rBV	760663	1401292	100.00%	19.632%
44	12.301	1662	1667	1675	rVB5	3426	6515	0.46%	0.091%
45	12.364	1675	1679	1689	rVB7	1930	3465	0.25%	0.049%
46	12.442	1689	1694	1701	rBV4	1195	2461	0.18%	0.034%
47	12.521	1705	1709	1716	rVB7	1789	3940	0.28%	0.055%
48	12.688	1738	1741	1749	rVB8	1829	3436	0.25%	0.048%
49	12.751	1749	1753	1757	rBV5	1745	2127	0.15%	0.030%
50	12.834	1765	1769	1773	rBV4	2144	3347	0.24%	0.047%
51	12.997	1797	1800	1804	rBV7	1790	2526	0.18%	0.035%
52	13.049	1806	1810	1816	rBV5	1469	2676	0.19%	0.037%
53	13.112	1816	1822	1826	rVB4	1510	2520	0.18%	0.035%
54	13.153	1826	1830	1840	rVB8	3062	5813	0.41%	0.081%
55	13.525	1889	1901	1918	rBV	491659	834447	59.55%	11.691%
56	13.629	1918	1921	1930	rVB7	4930	9735	0.69%	0.136%
57	13.739	1934	1942	1949	rBV3	14436	27766	1.98%	0.389%
58	13.812	1955	1956	1963	rVB6	1321	2396	0.17%	0.034%
59	13.964	1978	1985	1986	rBV4	1465	2144	0.15%	0.030%
60	14.152	2013	2021	2030	rVB6	7133	16046	1.15%	0.225%
61	14.315	2050	2052	2058	rVB5	2330	2803	0.20%	0.039%
62	14.356	2058	2060	2063	rBV4	1562	1943	0.14%	0.027%
63	14.503	2081	2088	2090	rBV6	2702	4477	0.32%	0.063%
64	14.534	2091	2094	2099	rVB4	1292	1869	0.13%	0.026%
65	14.592	2099	2105	2111	rVB10	2877	5301	0.38%	0.074%
66	14.675	2111	2121	2135	rBV	560906	925301	66.03%	12.964%
67	14.900	2158	2164	2172	rVB10	2861	5951	0.42%	0.083%
68	14.974	2172	2178	2187	rBV6	5948	14800	1.06%	0.207%
69	15.052	2187	2193	2197	rVV7	4106	7728	0.55%	0.108%
70	15.094	2197	2201	2210	rVB4	7271	13240	0.94%	0.185%
71	15.282	2229	2237	2241	rBV8	3521	7560	0.54%	0.106%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8197\
Data File : I204010.D
Acq On : 12 May 2015 3:06 am
Operator : SCOTTM
Sample : JB94209-18
Misc : MS84864,VI8197,,,,,1
ALS Vial : 36 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

72	15.439	2261	2267	2278	rVB5	13021	25988	1.85%	0.364%
73	15.565	2287	2291	2294	rVV6	1543	2401	0.17%	0.034%
74	15.606	2294	2299	2305	rVB8	3281	5375	0.38%	0.075%
75	15.664	2305	2310	2312	rBV5	2154	2418	0.17%	0.034%
76	15.690	2312	2315	2319	rVV5	1563	2528	0.18%	0.035%
77	15.737	2319	2324	2326	rVV6	2433	3282	0.23%	0.046%
78	15.779	2329	2332	2336	rVV6	2599	3508	0.25%	0.049%
79	15.842	2336	2344	2367	rVV	539550	906405	64.68%	12.699%
80	15.973	2367	2369	2371	rVV3	2491	2208	0.16%	0.031%
81	15.988	2371	2372	2376	rVV4	2345	2895	0.21%	0.041%
82	16.025	2376	2379	2381	rVV4	2796	2999	0.21%	0.042%
83	16.061	2383	2386	2391	rVV7	2670	4075	0.29%	0.057%
84	16.119	2394	2397	2400	rVV5	4194	4847	0.35%	0.068%
85	16.156	2401	2404	2409	rVV6	3336	5626	0.40%	0.079%
86	16.208	2413	2414	2417	rVV3	2261	2082	0.15%	0.029%
87	16.234	2417	2419	2422	rVV4	3383	2864	0.20%	0.040%
88	16.265	2422	2425	2431	rVB7	4048	6276	0.45%	0.088%
89	16.401	2448	2451	2453	rBV4	2229	1756	0.13%	0.025%
90	16.454	2453	2461	2469	rVB5	5840	15576	1.11%	0.218%
91	16.501	2469	2470	2473	rBV3	3486	2786	0.20%	0.039%
92	16.856	2536	2538	2545	rBV8	1880	3870	0.28%	0.054%
93	16.930	2550	2552	2557	rVB6	2528	2939	0.21%	0.041%
94	16.982	2558	2562	2567	rBV8	2502	4417	0.32%	0.062%
95	17.034	2567	2572	2577	rBV8	5142	9348	0.67%	0.131%
96	17.311	2622	2625	2629	rVB5	2996	4418	0.32%	0.062%
97	17.484	2654	2658	2662	rBV6	3677	6720	0.48%	0.094%
98	17.777	2712	2714	2718	rBV5	3228	3810	0.27%	0.053%
99	18.180	2786	2791	2800	rBV2	20400	34389	2.45%	0.482%
100	18.436	2836	2840	2844	rBV7	6695	12873	0.92%	0.180%

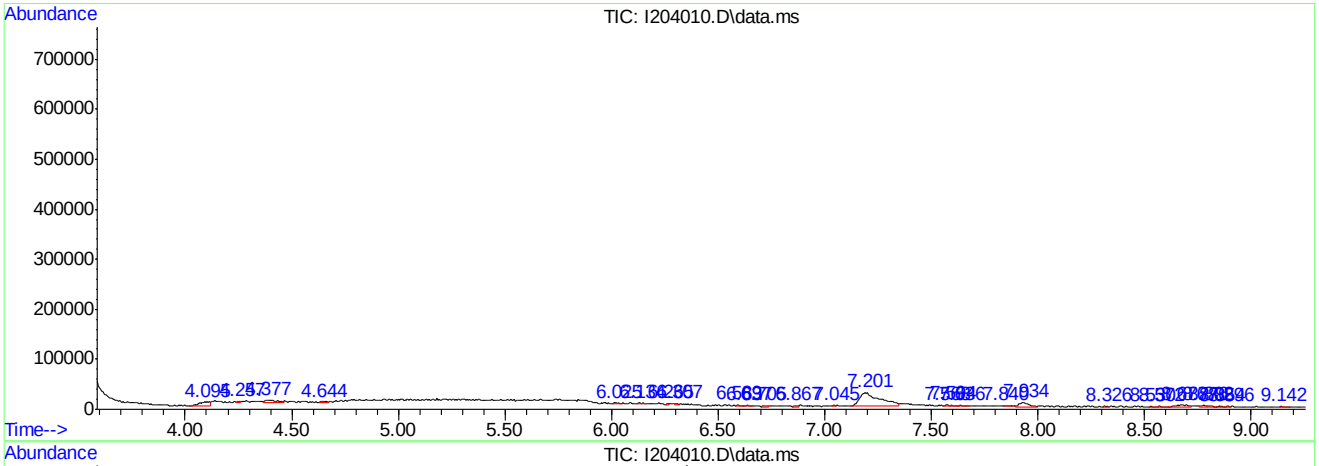
Sum of corrected areas: 7137630

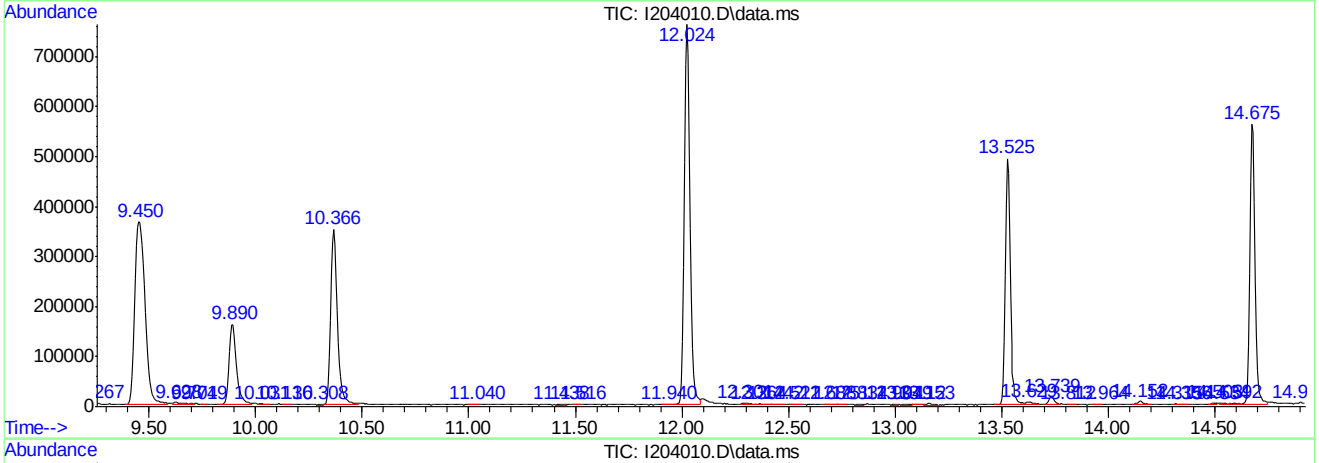
LSC Report - Integrated Chromatogram

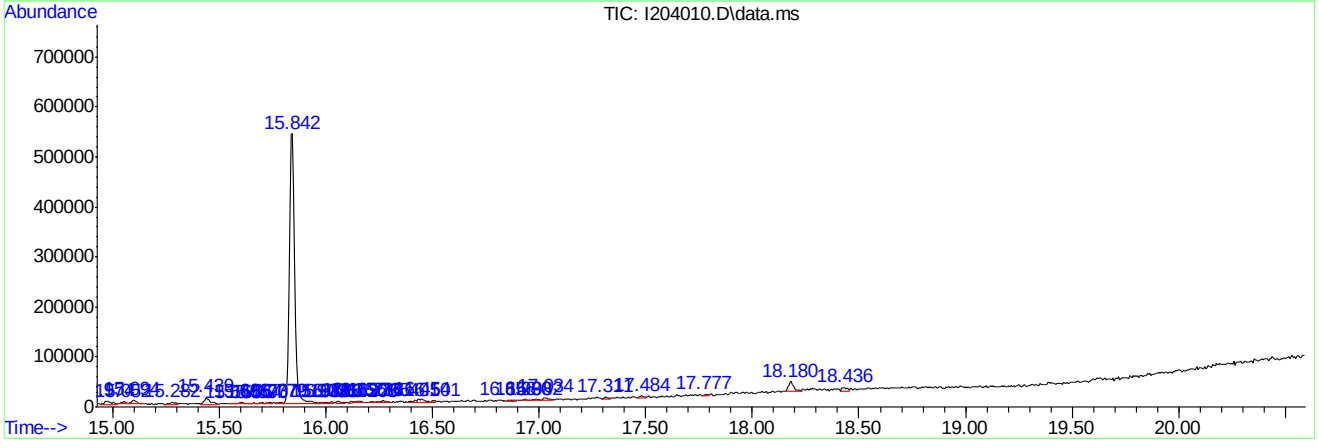
Data Path : C:\msdchem\1\DATA\VI8197\
Data File : I204010.D
Acq On : 12 May 2015 3:06 am
Operator : SCOTTM
Sample : JB94209-18
Misc : MS84864,VI8197,,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P







Tentatively Identified Compound (LSC) summary

```
  Data Path : C:\msdchem\1\DATA\VI8197\
  Data File : I204010.D
  Acq On    : 12 May 2015   3:06 am
  Operator  : SCOTTM
  Sample    : JB94209-18
  Misc      : MS84864,VI8197,,,,,1
  ALS Vial  : 36   Sample Multiplier: 1

  Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
  Quant Title  : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

  TIC Library    : C:\Database\NIST08.L
  TIC Integration Parameters: LSCINT2.P

                                                   |--Internal Standard---|
  TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------
```

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144314.D
Acq On : 8 May 2015 12:01 pm
Operator : BridgetK
Sample : mb
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 08 20:10:45 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 23 17:12:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.564	65	79453	500.00	ug/L	0.00
5) pentafluorobenzene	10.306	168	335374	50.00	ug/L	0.00
63) 1,4-difluorobenzene	11.460	114	369947	50.00	ug/L	0.00
94) chlorobenzene-d5	15.665	117	340128	50.00	ug/L	0.00
109) 1,4-dichlorobenzene-d4	18.423	152	211007	50.00	ug/L	0.00
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.322	113	114623	47.53	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 95.06%			
55) 1,2-dichloroethane-d4 (s)	10.862	65	108738	43.64	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 87.28%			
86) toluene-d8 (s)	13.651	98	414768	49.48	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 98.96%			
111) 4-bromofluorobenzene (s)	17.149	95	163262	49.08	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 98.16%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

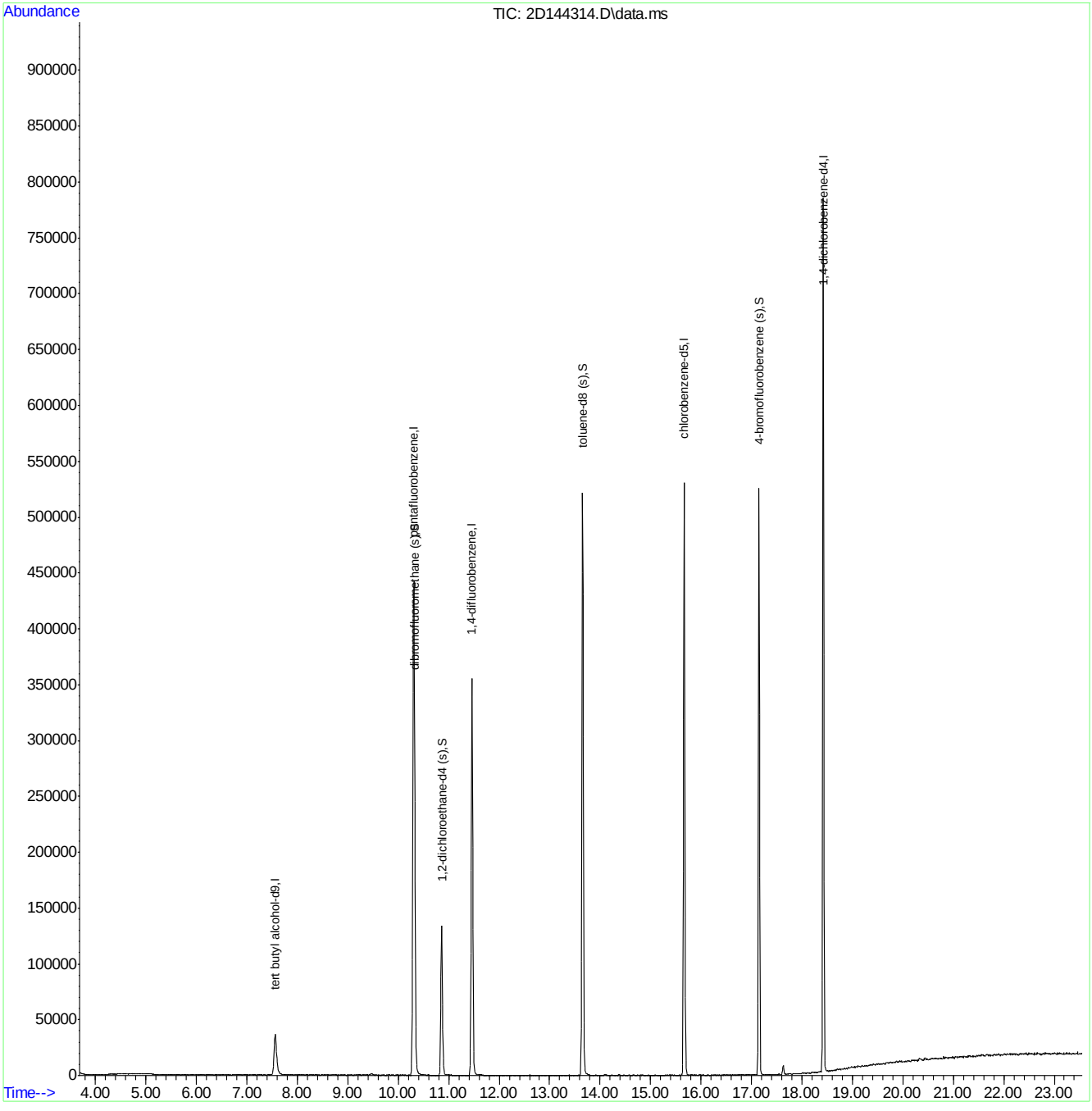
7.2.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144314.D
Acq On : 8 May 2015 12:01 pm
Operator : BridgetK
Sample : mb
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 08 20:10:45 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 23 17:12:49 2015
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144314.D
Acq On : 8 May 2015 12:01 pm
Operator : BridgetK
Sample : mb
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Signal : TIC: 2D144314.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.010	62	63	68	rVB3	270	279	0.02%	0.004%
2	4.245	104	108	109	rBV2	352	400	0.03%	0.006%
3	4.282	114	115	117	rVV	460	316	0.03%	0.005%
4	4.335	119	125	126	rVB3	570	848	0.07%	0.013%
5	5.682	379	382	384	rVB2	259	312	0.03%	0.005%
6	5.750	393	395	398	rVB	299	251	0.02%	0.004%
7	5.887	419	421	424	rBV2	253	222	0.02%	0.003%
8	6.012	443	445	452	rVB3	197	321	0.03%	0.005%
9	6.233	484	487	490	rVB3	198	213	0.02%	0.003%
10	6.762	585	588	592	rBV3	204	286	0.02%	0.004%
11	6.919	615	618	622	rBV2	261	352	0.03%	0.005%
12	7.140	658	660	664	rBV3	287	308	0.03%	0.005%
13	7.224	669	676	680	rBV4	360	795	0.07%	0.012%
14	7.328	693	696	698	rBV2	286	240	0.02%	0.004%
15	7.475	720	724	725	rBV2	268	338	0.03%	0.005%
16	7.564	727	741	772	rVV2	36401	135948	11.67%	2.118%
17	7.874	798	800	802	rBV2	361	225	0.02%	0.004%
18	7.952	812	815	817	rBV2	276	250	0.02%	0.004%
19	8.010	824	826	828	rBV3	385	309	0.03%	0.005%
20	8.157	852	854	857	rBV2	236	302	0.03%	0.005%
21	8.424	902	905	910	rBV3	225	242	0.02%	0.004%
22	8.529	924	925	930	rBV3	219	242	0.02%	0.004%
23	8.954	1001	1006	1011	rVB3	268	507	0.04%	0.008%
24	8.990	1011	1013	1015	rBV3	246	222	0.02%	0.003%
25	9.022	1015	1019	1020	rBV2	194	215	0.02%	0.003%
26	9.462	1096	1103	1111	rVB3	1311	3084	0.26%	0.048%
27	9.515	1111	1113	1117	rVB2	316	234	0.02%	0.004%
28	9.557	1119	1121	1126	rBV3	240	262	0.02%	0.004%
29	9.667	1135	1142	1145	rBV3	162	336	0.03%	0.005%
30	9.714	1148	1151	1156	rBV2	366	260	0.02%	0.004%
31	9.987	1199	1203	1204	rBV	207	233	0.02%	0.004%
32	10.081	1216	1221	1227	rVV3	313	520	0.04%	0.008%
33	10.149	1231	1234	1240	rVB3	200	231	0.02%	0.004%
34	10.306	1250	1264	1293	rBV2	442620	1165303	100.00%	18.158%

M2D6039.M Fri May 08 20:11:25 2015 Page: 1

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144314.D
Acq On : 8 May 2015 12:01 pm
Operator : BridgetK
Sample : mb
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

35	10.590	1315	1318	1321	rBV	276	302	0.03%	0.005%
36	10.611	1321	1322	1327	rVB2	289	275	0.02%	0.004%
37	10.700	1335	1339	1345	rVB	170	259	0.02%	0.004%
38	10.862	1354	1370	1394	rBV	133859	307054	26.35%	4.784%
39	11.051	1402	1406	1407	rVB3	235	258	0.02%	0.004%
40	11.297	1447	1453	1456	rBV3	218	351	0.03%	0.005%
41	11.334	1456	1460	1467	rBV3	210	348	0.03%	0.005%
42	11.460	1470	1484	1507	rBV	355352	775120	66.52%	12.078%
43	11.769	1540	1543	1550	rVB2	147	216	0.02%	0.003%
44	13.022	1780	1782	1789	rBV2	181	282	0.02%	0.004%
45	13.096	1793	1796	1800	rBV2	193	253	0.02%	0.004%
46	13.237	1822	1823	1831	rVB	227	299	0.03%	0.005%
47	13.457	1859	1865	1868	rVB2	183	340	0.03%	0.005%
48	13.478	1868	1869	1872	rBV2	239	272	0.02%	0.004%
49	13.651	1890	1902	1928	rBV	521902	1038960	89.16%	16.189%
50	13.793	1928	1929	1934	rVB2	265	257	0.02%	0.004%
51	13.830	1934	1936	1942	rVB3	247	377	0.03%	0.006%
52	13.887	1942	1947	1949	rBV2	180	334	0.03%	0.005%
53	14.097	1977	1987	1997	rBV3	666	2170	0.19%	0.034%
54	14.181	1997	2003	2005	rVB3	226	348	0.03%	0.005%
55	14.365	2035	2038	2040	rBV2	302	214	0.02%	0.003%
56	14.433	2045	2051	2054	rVV4	240	326	0.03%	0.005%
57	14.627	2084	2088	2090	rBV	149	226	0.02%	0.004%
58	14.747	2107	2111	2113	rBV	265	234	0.02%	0.004%
59	14.842	2128	2129	2133	rBV2	286	271	0.02%	0.004%
60	15.093	2174	2177	2181	rVB2	381	484	0.04%	0.008%
61	15.130	2181	2184	2185	rBV2	208	215	0.02%	0.003%
62	15.167	2187	2191	2193	rVV	176	230	0.02%	0.004%
63	15.277	2208	2212	2215	rBV2	185	215	0.02%	0.003%
64	15.424	2237	2240	2245	rVB2	331	352	0.03%	0.005%
65	15.513	2252	2257	2264	rBV3	194	411	0.04%	0.006%
66	15.570	2264	2268	2270	rBV2	237	301	0.03%	0.005%
67	15.665	2272	2286	2305	rVB	530500	953878	81.86%	14.863%
68	15.812	2310	2314	2318	rBV	429	609	0.05%	0.009%
69	15.875	2323	2326	2328	rBV3	294	239	0.02%	0.004%
70	15.964	2337	2343	2349	rBV4	624	1074	0.09%	0.017%
71	16.221	2386	2392	2393	rVB2	311	444	0.04%	0.007%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144314.D
Acq On : 8 May 2015 12:01 pm
Operator : BridgetK
Sample : mb
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

72	16.247	2393	2397	2399	rBV	311	449	0.04%	0.007%
73	16.268	2399	2401	2406	rVB	434	429	0.04%	0.007%
74	16.367	2419	2420	2423	rVB2	304	248	0.02%	0.004%
75	16.404	2423	2427	2428	rBV2	353	296	0.03%	0.005%
76	16.430	2429	2432	2433	rVB	363	264	0.02%	0.004%
77	16.504	2442	2446	2452	rBV4	409	597	0.05%	0.009%
78	16.609	2463	2466	2471	rBV2	262	457	0.04%	0.007%
79	16.656	2473	2475	2478	rVB3	326	294	0.03%	0.005%
80	16.687	2478	2481	2483	rVB2	316	333	0.03%	0.005%
81	16.719	2483	2487	2489	rBV3	324	375	0.03%	0.006%
82	16.745	2489	2492	2495	rBV4	267	249	0.02%	0.004%
83	16.939	2527	2529	2534	rBV4	220	272	0.02%	0.004%
84	16.997	2537	2540	2546	rBV3	299	305	0.03%	0.005%
85	17.149	2561	2569	2583	rBV	525384	835112	71.66%	13.013%
86	17.274	2591	2593	2596	rBV2	289	228	0.02%	0.004%
87	17.332	2602	2604	2606	rBV2	341	312	0.03%	0.005%
88	17.348	2606	2607	2614	rVB4	471	690	0.06%	0.011%
89	17.416	2615	2620	2625	rVV4	367	705	0.06%	0.011%
90	17.510	2632	2638	2642	rBV4	487	960	0.08%	0.015%
91	17.542	2642	2644	2647	rBV3	551	429	0.04%	0.007%
92	17.631	2655	2661	2669	rBV2	7984	12779	1.10%	0.199%
93	17.704	2674	2675	2678	rBV2	452	405	0.03%	0.006%
94	17.820	2695	2697	2699	rBV2	489	252	0.02%	0.004%
95	17.867	2705	2706	2710	rVB3	674	573	0.05%	0.009%
96	17.904	2711	2713	2719	rVB6	446	502	0.04%	0.008%
97	18.014	2730	2734	2740	rBV5	1203	1835	0.16%	0.029%
98	18.192	2764	2768	2771	rBV4	1009	1333	0.11%	0.021%
99	18.423	2804	2812	2828	rBV	782643	1151851	98.85%	17.948%
100	18.690	2861	2863	2869	rBV6	1620	2989	0.26%	0.047%

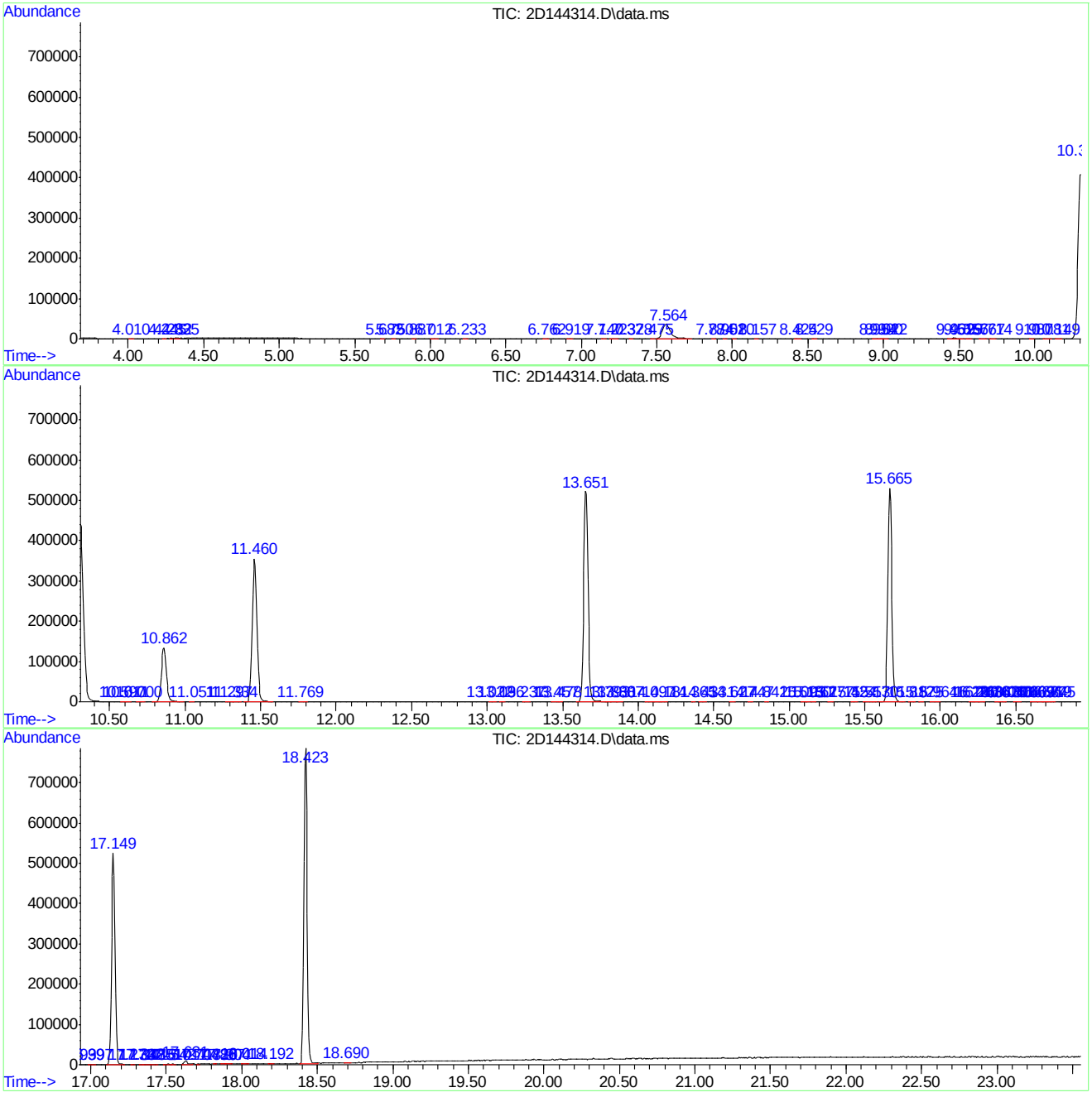
Sum of corrected areas: 6417727

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144314.D
Acq On : 8 May 2015 12:01 pm
Operator : BridgetK
Sample : mb
Misc : ms84863,v2d6061,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: Lscint.p



Tentatively Identified Compound (LSC) summary

```
Data Path : C:\msdchem\1\DATA\2d\v2d6061\
Data File : 2D144314.D
Acq On    :  8 May 2015  12:01 pm
Operator  : BridgetK
Sample    : mb
Misc      : ms84863,v2d6061,5,,,,1
ALS Vial  : 4   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2D6039.M
Quant Title  : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library   : C:\DATABASE\NIST08.L
TIC Integration Parameters: Lscint.p

                                                  |--Internal Standard---|
TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------



 No Library Search Compounds Detected
 ************************************************************************
```

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C119819.D
Acq On : 10 May 2015 11:44 am
Operator : prashans
Sample : MB
Misc : MS84574,V3C5467,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 11 12:05:11 2015
Quant Method : C:\MSDCHEM\1\METHODS\M3C5457.M
Quant Title : Method SW846 8260C, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue May 05 16:14:27 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.09	65	89576	500.00	ug/L	0.00
5) pentafluorobenzene	9.34	168	219993	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.26	114	265146	50.00	ug/L	0.00
83) chlorobenzene-d5	13.42	117	231169	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	15.72	152	143415	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.38	113	76845	52.59	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 105.18%			
46) 1,2-dichloroethane-d4 (s)	9.80	65	77754	54.82	ug/L	0.00
Spiked Amount 50.000	Range 68 - 124		Recovery = 109.64%			
75) toluene-d8 (s)	11.91	98	296794	51.52	ug/L	0.00
Spiked Amount 50.000	Range 77 - 125		Recovery = 103.04%			
101) 4-bromofluorobenzene (s)	14.56	95	121805	48.27	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 96.54%			

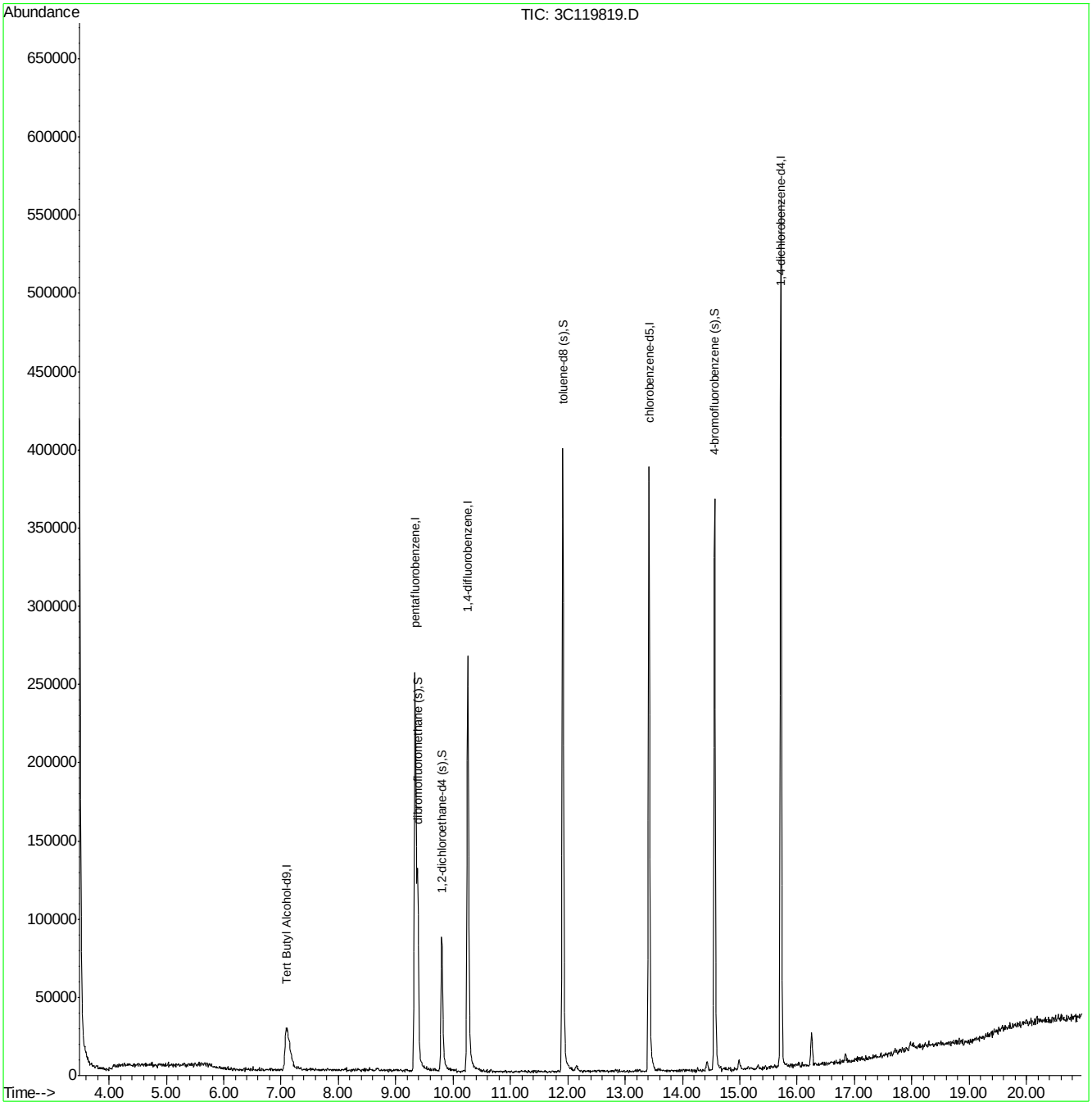
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C119819.D
Acq On : 10 May 2015 11:44 am
Operator : prashans
Sample : MB
Misc : MS84574,V3C5467,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 11 12:05:11 2015
Quant Method : C:\MSDCHEM\1\METHODS\M3C5457.M
Quant Title : Method SW846 8260C, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue May 05 16:14:27 2015
Response via : Initial Calibration



M3C5457.M Mon May 11 12:05:16 2015 MS3C

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C119819.D
Acq On : 10 May 2015 11:44 am
Operator : prashans
Sample : MB
Misc : MS84574,V3C5467,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.15 Max Peaks: 100
Stop Thrs : 0.05 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M3C5457.M
Title : Method SW846 8260C, ZB624 60m x 0.25mm x 1.4um

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.903	78	81	83	rVB3	1948	2015	0.23%	0.040%
2	3.956	90	91	99	rBV4	1892	2694	0.31%	0.053%
3	4.071	109	113	115	rBV3	2707	2892	0.33%	0.057%
4	5.357	357	359	362	rBV3	2171	2076	0.24%	0.041%
5	5.378	362	363	370	rVV6	2009	3181	0.36%	0.063%
6	5.739	430	432	435	rBV3	2039	2439	0.28%	0.048%
7	6.325	541	544	546	rBV4	1351	1202	0.14%	0.024%
8	6.351	546	549	552	rVB4	2236	2494	0.29%	0.049%
9	6.383	552	555	558	rBV3	2481	3446	0.39%	0.068%
10	6.471	570	572	577	rVB3	1587	2183	0.25%	0.043%
11	6.513	577	580	590	rBV5	2704	4295	0.49%	0.085%
12	6.660	607	608	616	rBV3	2059	3089	0.35%	0.061%
13	6.838	640	642	645	rVB2	1856	1929	0.22%	0.038%
14	6.947	659	663	669	rBV5	1343	2609	0.30%	0.051%
15	7.010	669	675	677	rBV3	1121	1813	0.21%	0.036%
16	7.094	677	691	715	rBV2	27528	163576	18.73%	3.224%
17	7.554	777	779	788	rVB6	1344	1614	0.18%	0.032%
18	7.695	803	806	808	rBV2	1165	1273	0.15%	0.025%
19	7.816	827	829	835	rBV4	1530	1328	0.15%	0.026%
20	8.056	873	875	882	rBV6	1334	2495	0.29%	0.049%
21	8.224	906	907	909	rBV2	1896	1358	0.16%	0.027%
22	8.302	920	922	927	rBV5	1642	1498	0.17%	0.030%
23	8.344	927	930	940	rVB7	1949	4120	0.47%	0.081%
24	8.412	940	943	946	rBV2	1606	1533	0.18%	0.030%
25	8.485	956	957	961	rVB2	1327	1265	0.14%	0.025%
26	8.543	966	968	971	rBV3	2467	2450	0.28%	0.048%
27	8.668	989	992	996	rBV4	1236	2111	0.24%	0.042%
28	8.799	1013	1017	1020	rVB6	1607	1608	0.18%	0.032%
29	8.825	1020	1022	1026	rBV3	1035	1246	0.14%	0.025%
30	8.893	1032	1035	1037	rBV2	1778	1584	0.18%	0.031%
31	8.951	1042	1046	1047	rBV2	1191	1377	0.16%	0.027%
32	9.019	1053	1059	1062	rVB6	1094	1630	0.19%	0.032%
33	9.087	1069	1072	1076	rVB4	1506	1513	0.17%	0.030%
34	9.181	1086	1090	1093	rBV5	1930	2894	0.33%	0.057%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C119819.D
Acq On : 10 May 2015 11:44 am
Operator : prashans
Sample : MB
Misc : MS84574,V3C5467,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.15 Max Peaks: 100
Stop Thrs : 0.05 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M3C5457.M
Title : Method SW846 8260C, ZB624 60m x 0.25mm x 1.4um

35	9.243	1100	1102	1104	rBV3	1408	1377	0.16%	0.027%
36	9.338	1111	1120	1157	rBV2	255196	870634	99.67%	17.161%
37	9.573	1163	1165	1171	rVB4	1459	1995	0.23%	0.039%
38	9.678	1183	1185	1188	rBV4	1566	1286	0.15%	0.025%
39	9.803	1199	1209	1228	rBV2	85452	201957	23.12%	3.981%
40	9.939	1232	1235	1237	rVB4	1844	1653	0.19%	0.033%
41	10.044	1253	1255	1260	rVB4	2487	3027	0.35%	0.060%
42	10.143	1273	1274	1278	rBV3	1157	1395	0.16%	0.027%
43	10.190	1278	1283	1287	rVB2	1641	2372	0.27%	0.047%
44	10.258	1287	1296	1322	rBV	266019	596558	68.29%	11.759%
45	10.535	1345	1349	1353	rVV4	2038	2722	0.31%	0.054%
46	10.629	1362	1367	1368	rBV3	1649	1893	0.22%	0.037%
47	10.666	1372	1374	1378	rVB2	1986	1369	0.16%	0.027%
48	10.760	1388	1392	1398	rBV3	1076	1937	0.22%	0.038%
49	10.985	1428	1435	1437	rVV3	1443	2245	0.26%	0.044%
50	11.011	1437	1440	1445	rVV2	1265	1926	0.22%	0.038%
51	11.069	1449	1451	1454	rVV	1146	1203	0.14%	0.024%
52	11.100	1454	1457	1463	rVV4	1328	2444	0.28%	0.048%
53	11.163	1467	1469	1472	rVV	1198	1210	0.14%	0.024%
54	11.210	1476	1478	1482	rVV2	1189	1555	0.18%	0.031%
55	11.273	1489	1490	1494	rVB2	1461	1226	0.14%	0.024%
56	11.315	1494	1498	1506	rBV6	1857	3159	0.36%	0.062%
57	11.372	1506	1509	1513	rBV4	1510	1747	0.20%	0.034%
58	11.404	1513	1515	1518	rBV3	1763	1295	0.15%	0.026%
59	11.461	1522	1526	1529	rBV3	1832	1815	0.21%	0.036%
60	11.487	1529	1531	1536	rVV4	1262	1311	0.15%	0.026%
61	11.597	1549	1552	1557	rVB4	1355	1439	0.16%	0.028%
62	11.628	1557	1558	1563	rVB2	1575	1158	0.13%	0.023%
63	11.754	1573	1582	1583	rVB5	1141	2268	0.26%	0.045%
64	11.770	1583	1585	1591	rVB4	1232	1959	0.22%	0.039%
65	11.832	1595	1597	1601	rVB3	1586	1359	0.16%	0.027%
66	11.911	1601	1612	1637	rBV	398842	777852	89.04%	15.333%
67	12.068	1641	1642	1645	rVB	2555	1748	0.20%	0.034%
68	12.151	1653	1658	1670	rVB5	4400	13158	1.51%	0.259%
69	12.225	1670	1672	1677	rBV	1332	1667	0.19%	0.033%
70	12.324	1689	1691	1698	rBV3	895	1467	0.17%	0.029%
71	12.544	1725	1733	1737	rBV8	1243	2592	0.30%	0.051%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C119819.D
Acq On : 10 May 2015 11:44 am
Operator : prashans
Sample : MB
Misc : MS84574,V3C5467,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.15 Max Peaks: 100
Stop Thrs : 0.05 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M3C5457.M
Title : Method SW846 8260C, ZB624 60m x 0.25mm x 1.4um

72	12.586	1739	1741	1744	rBV4	1304	1359	0.16%	0.027%
73	12.690	1757	1761	1764	rVB4	1876	2248	0.26%	0.044%
74	12.858	1790	1793	1797	rVB2	1533	2319	0.27%	0.046%
75	12.899	1798	1801	1806	rBV4	1761	1803	0.21%	0.036%
76	12.983	1813	1817	1823	rVV5	1401	1835	0.21%	0.036%
77	13.041	1826	1828	1832	rVB2	1305	1587	0.18%	0.031%
78	13.072	1832	1834	1838	rBV2	1317	1472	0.17%	0.029%
79	13.218	1859	1862	1863	rVB2	1876	1197	0.14%	0.024%
80	13.255	1867	1869	1872	rVB4	1669	1319	0.15%	0.026%
81	13.417	1891	1900	1922	rBV	386774	697881	79.89%	13.756%
82	13.904	1990	1993	1996	rVB4	1614	1883	0.22%	0.037%
83	13.972	2004	2006	2011	rVB2	1712	1959	0.22%	0.039%
84	14.008	2011	2013	2015	rBV3	1865	1595	0.18%	0.031%
85	14.050	2019	2021	2023	rBV2	1492	1195	0.14%	0.024%
86	14.149	2039	2040	2043	rVB3	1561	1296	0.15%	0.026%
87	14.186	2044	2047	2051	rVV2	1633	2526	0.29%	0.050%
88	14.223	2051	2054	2055	rVB2	2370	1838	0.21%	0.036%
89	14.265	2060	2062	2070	rBV6	2958	3709	0.42%	0.073%
90	14.317	2070	2072	2076	rVB4	1419	1440	0.16%	0.028%
91	14.353	2076	2079	2085	rBV6	1802	2187	0.25%	0.043%
92	14.427	2085	2093	2102	rVV9	5969	14931	1.71%	0.294%
93	14.563	2111	2119	2143	rVB	366519	625135	71.56%	12.322%
94	14.720	2143	2149	2153	rBV5	2828	7281	0.83%	0.144%
95	14.986	2194	2200	2215	rBV5	6541	15624	1.79%	0.308%
96	15.399	2277	2279	2280	rBV2	2328	1440	0.16%	0.028%
97	15.447	2286	2288	2292	rVB4	3063	3841	0.44%	0.076%
98	15.541	2303	2306	2312	rBV8	2395	3956	0.45%	0.078%
99	15.713	2331	2339	2364	rVB	555039	873550	100.00%	17.219%
100	16.252	2435	2442	2453	rVB	20622	41996	4.81%	0.828%

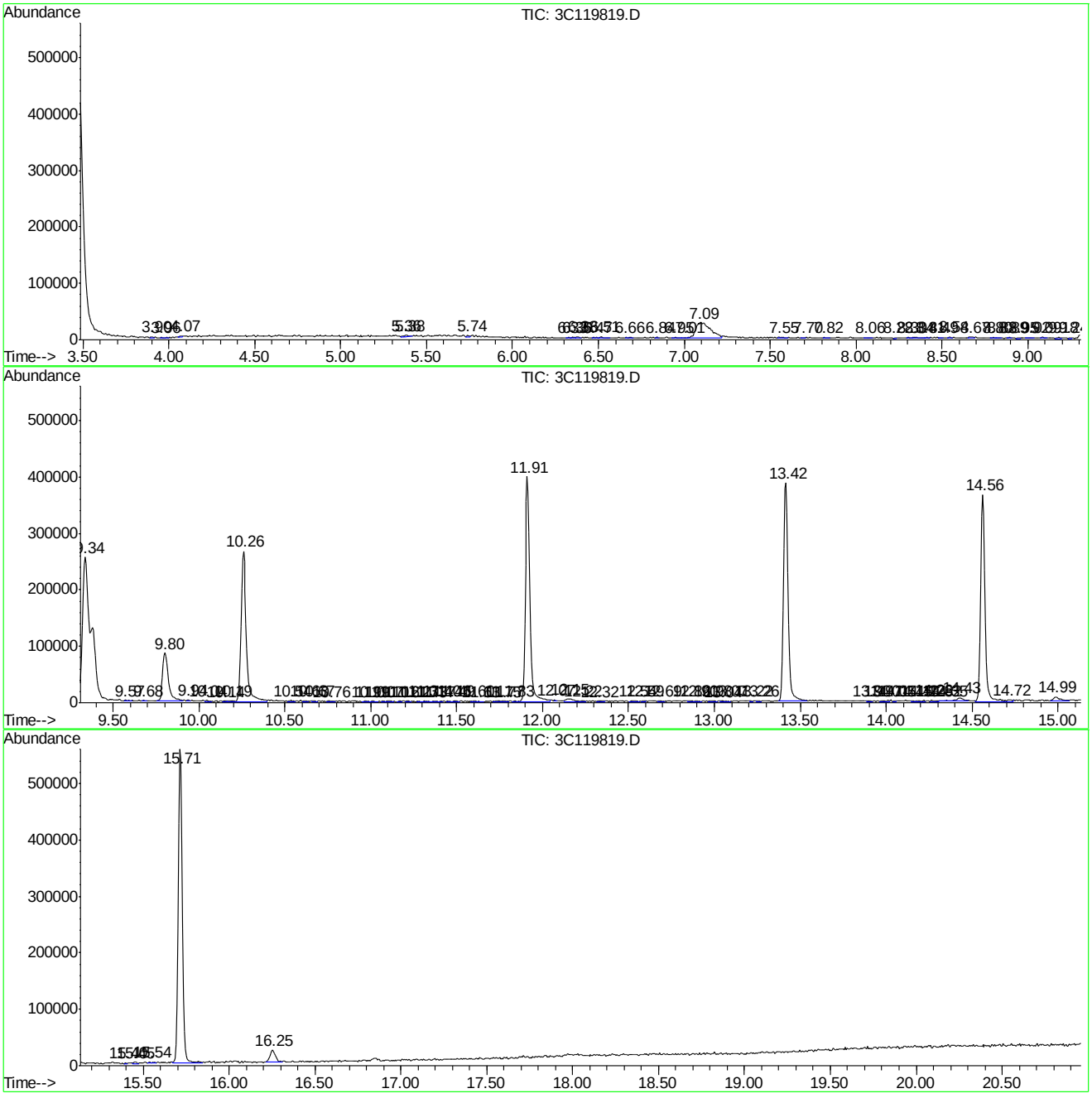
Sum of corrected areas: 5073210

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C119819.D
Acq On : 10 May 2015 11:44 am
Operator : prashans
Sample : MB
Misc : MS84574,V3C5467,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M3C5457.M
Quant Title : Method SW846 8260C, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p



Tentatively Identified Compound (LSC) summary

```
Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C119819.D
Acq On    : 10 May 2015  11:44 am
Operator  : prashans
Sample    : MB
Misc      : MS84574,V3C5467,5.0,,,,1
ALS Vial  : 4   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M3C5457.M
Quant Title  : Method SW846 8260C, ZB624 60m x 0.25mm x 1.4um

TIC Library   : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p

                                                  |--Internal Standard---|
TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------
```

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203932.D
Acq On : 8 May 2015 11:21 am
Operator : SCOTTM
Sample : MB1
Misc : MS84661,VI8194,,,,,1
ALS Vial : 45 Sample Multiplier: 1

Quant Time: May 08 15:48:01 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 30 09:04:29 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.181	65	59507	500.00	ug/L	-0.02
5) pentafluorobenzene	9.450	168	167821	50.00	ug/L	0.00
48) 1,4-difluorobenzene	10.366	114	200914	50.00	ug/L	0.00
79) chlorobenzene-d5	13.525	117	176729	50.00	ug/L	0.00
94) 1,4-dichlorobenzene-d4	15.842	152	91615	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.471	113	85513	48.45	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.90%			
49) 1,2-dichloroethane-d4...	9.890	65	84940	47.30	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 94.60%			
80) toluene-d8 (s)	12.024	98	337034	45.65	ug/L	0.00
Spiked Amount 50.000	Range 78 - 129		Recovery = 91.30%			
95) 4-bromofluorobenzene (s)	14.675	95	123046	48.50	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 97.00%			

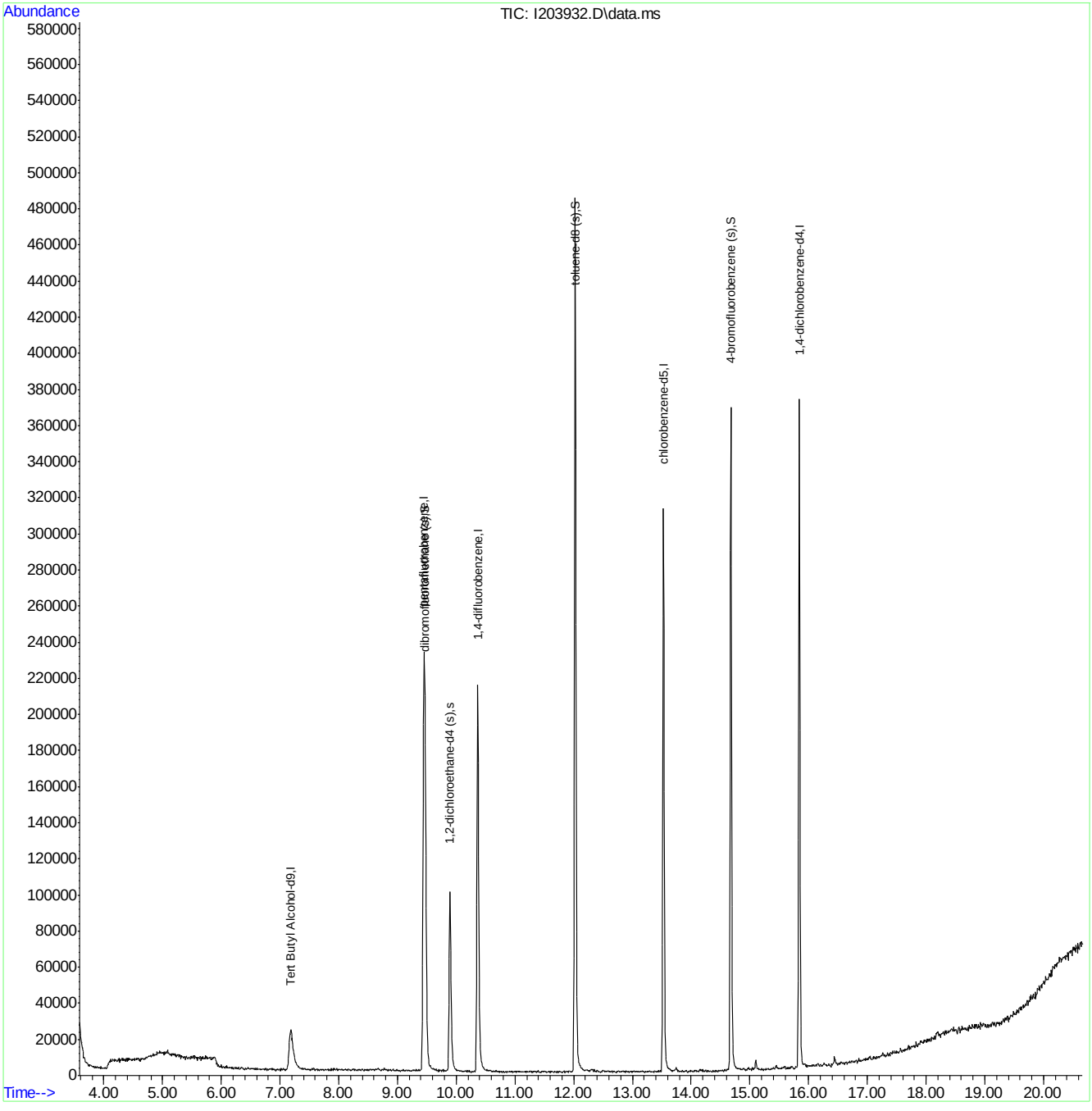
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203932.D
Acq On : 8 May 2015 11:21 am
Operator : SCOTTM
Sample : MB1
Misc : MS84661,VI8194,,,,,1
ALS Vial : 45 Sample Multiplier: 1

Quant Time: May 08 15:48:01 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 30 09:04:29 2015
Response via : Initial Calibration



MI8156.M Fri May 08 15:48:08 2015 RPT1 Page: 2

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203932.D
Acq On : 8 May 2015 11:21 am
Operator : SCOTTM
Sample : MB1
Misc : MS84661,VI8194,,,,,1
ALS Vial : 45 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

Signal : TIC: I20393

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.100	89	99	101	rBV7	3973	9020	1.01%	0.207%
2	6.035	466	469	474	rBV4	1085	1593	0.18%	0.037%
3	6.229	505	506	511	rVB4	1048	1167	0.13%	0.027%
4	6.291	516	518	523	rBV4	1089	1201	0.13%	0.028%
5	6.448	544	548	557	rBV8	1095	2313	0.26%	0.053%
6	6.574	571	572	575	rVB3	766	653	0.07%	0.015%
7	6.788	610	613	615	rBV2	1076	1239	0.14%	0.028%
8	6.956	640	645	648	rBV6	1075	1673	0.19%	0.038%
9	7.013	655	656	660	rBV3	1577	1314	0.15%	0.030%
10	7.055	660	664	666	rVV4	1244	1509	0.17%	0.035%
11	7.071	666	667	670	rVB2	1049	858	0.10%	0.020%
12	7.181	675	688	723	rVV2	22340	117737	13.20%	2.708%
13	7.489	745	747	751	rVB2	1186	1320	0.15%	0.030%
14	7.520	751	753	756	rVV3	975	1042	0.12%	0.024%
15	7.541	756	757	761	rVV3	1291	1559	0.17%	0.036%
16	7.578	761	764	768	rVV4	1507	1911	0.21%	0.044%
17	7.620	771	772	776	rVV2	1235	1344	0.15%	0.031%
18	7.651	776	778	781	rVV2	1094	1120	0.13%	0.026%
19	7.688	782	785	789	rVV5	1092	1536	0.17%	0.035%
20	7.719	790	791	796	rVB3	1129	1355	0.15%	0.031%
21	7.871	817	820	821	rBV	1269	815	0.09%	0.019%
22	8.049	851	854	863	rBV6	802	1259	0.14%	0.029%
23	8.117	863	867	869	rVB5	830	806	0.09%	0.019%
24	8.399	917	921	927	rBV6	1190	1594	0.18%	0.037%
25	8.535	943	947	949	rBV2	724	724	0.08%	0.017%
26	8.634	961	966	968	rBV4	758	902	0.10%	0.021%
27	8.776	987	993	998	rBV5	945	1758	0.20%	0.040%
28	8.922	1016	1021	1024	rBV6	1081	1234	0.14%	0.028%
29	8.990	1032	1034	1036	rBV3	1067	656	0.07%	0.015%
30	9.058	1046	1047	1050	rBV2	918	827	0.09%	0.019%
31	9.294	1089	1092	1094	rVB3	922	886	0.10%	0.020%
32	9.314	1094	1096	1100	rBV4	1178	1114	0.12%	0.026%
33	9.361	1102	1105	1109	rVB4	998	1017	0.11%	0.023%
34	9.450	1110	1122	1151	rBV2	232267	754633	84.62%	17.356%

MI8156.M Fri May 08 15:48:10 2015 RPT1 Page: 1

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203932.D
Acq On : 8 May 2015 11:21 am
Operator : SCOTTM
Sample : MB1
Misc : MS84661,VI8194,,,,,1
ALS Vial : 45 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

35	9.701	1168	1170	1172	rVB2	1284	794	0.09%	0.018%
36	9.738	1172	1177	1179	rVB3	838	1167	0.13%	0.027%
37	9.764	1179	1182	1184	rBV2	966	984	0.11%	0.023%
38	9.890	1198	1206	1232	rVB	99377	233240	26.15%	5.364%
39	10.141	1253	1254	1261	rVV5	874	1186	0.13%	0.027%
40	10.366	1287	1297	1325	rBV	214591	468935	52.58%	10.785%
41	10.768	1371	1374	1377	rVB2	860	681	0.08%	0.016%
42	10.805	1377	1381	1383	rVB2	920	946	0.11%	0.022%
43	10.831	1383	1386	1389	rBV3	556	707	0.08%	0.016%
44	10.863	1391	1392	1398	rBV3	907	1455	0.16%	0.033%
45	10.951	1404	1409	1412	rVB3	844	1007	0.11%	0.023%
46	10.999	1412	1418	1420	rBV3	763	963	0.11%	0.022%
47	11.396	1493	1494	1500	rVB2	1044	887	0.10%	0.020%
48	11.464	1504	1507	1509	rBV2	774	835	0.09%	0.019%
49	11.495	1511	1513	1522	rVB2	944	1629	0.18%	0.037%
50	11.569	1522	1527	1528	rBV2	683	878	0.10%	0.020%
51	11.631	1535	1539	1542	rBV3	552	656	0.07%	0.015%
52	11.673	1546	1547	1553	rVB3	536	769	0.09%	0.018%
53	11.752	1561	1562	1571	rVB4	778	1638	0.18%	0.038%
54	11.835	1575	1578	1580	rVB2	742	648	0.07%	0.015%
55	11.919	1592	1594	1603	rBV3	918	1968	0.22%	0.045%
56	12.024	1603	1614	1639	rBV	484297	891824	100.00%	20.511%
57	12.296	1660	1666	1673	rBV6	1566	3422	0.38%	0.079%
58	12.353	1674	1677	1679	rVB2	1378	730	0.08%	0.017%
59	12.494	1701	1704	1706	rBV3	984	1030	0.12%	0.024%
60	12.583	1718	1721	1724	rVV	678	798	0.09%	0.018%
61	12.657	1731	1735	1736	rVB2	892	878	0.10%	0.020%
62	12.672	1736	1738	1741	rBV2	812	732	0.08%	0.017%
63	12.735	1749	1750	1752	rBV2	982	749	0.08%	0.017%
64	12.881	1777	1778	1781	rBV2	861	838	0.09%	0.019%
65	12.902	1781	1782	1785	rVV	822	723	0.08%	0.017%
66	12.965	1789	1794	1796	rBV3	814	1030	0.12%	0.024%
67	13.326	1860	1863	1871	rVB3	568	1318	0.15%	0.030%
68	13.373	1871	1872	1876	rBV2	942	853	0.10%	0.020%
69	13.472	1889	1891	1894	rVV4	974	708	0.08%	0.016%
70	13.525	1894	1901	1930	rVV	312173	552847	61.99%	12.715%
71	13.682	1930	1931	1935	rVV3	1227	1075	0.12%	0.025%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203932.D
Acq On : 8 May 2015 11:21 am
Operator : SCOTTM
Sample : MB1
Misc : MS84661,VI8194,,,,,1
ALS Vial : 45 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

72	13.744	1935	1943	1948	rVV6	2549	4834	0.54%	0.111%
73	13.781	1948	1950	1953	rVB3	783	813	0.09%	0.019%
74	13.849	1960	1963	1966	rVB3	1057	917	0.10%	0.021%
75	13.917	1974	1976	1980	rVB3	1027	960	0.11%	0.022%
76	13.959	1980	1984	1986	rBV3	708	947	0.11%	0.022%
77	14.048	1996	2001	2002	rBV3	627	791	0.09%	0.018%
78	14.079	2005	2007	2009	rVB2	1243	676	0.08%	0.016%
79	14.142	2016	2019	2021	rBV2	1383	1437	0.16%	0.033%
80	14.199	2028	2030	2032	rBV2	1558	886	0.10%	0.020%
81	14.247	2032	2039	2041	rVV3	1050	1650	0.19%	0.038%
82	14.273	2041	2044	2046	rVB2	1031	651	0.07%	0.015%
83	14.299	2046	2049	2051	rBV2	687	694	0.08%	0.016%
84	14.367	2059	2062	2069	rVB4	849	874	0.10%	0.020%
85	14.430	2073	2074	2080	rVB5	858	1106	0.12%	0.025%
86	14.466	2080	2081	2084	rBV3	955	938	0.11%	0.022%
87	14.529	2089	2093	2097	rVB4	774	1065	0.12%	0.024%
88	14.576	2097	2102	2106	rBV7	1138	1997	0.22%	0.046%
89	14.602	2106	2107	2109	rBV2	1040	809	0.09%	0.019%
90	14.675	2114	2121	2142	rBV	367110	610986	68.51%	14.052%
91	14.979	2172	2179	2183	rBV4	1373	2086	0.23%	0.048%
92	15.099	2196	2202	2217	rVB7	5624	9748	1.09%	0.224%
93	15.198	2219	2221	2227	rVB6	1359	1691	0.19%	0.039%
94	15.235	2227	2228	2232	rBV3	865	992	0.11%	0.023%
95	15.308	2238	2242	2246	rVB5	1011	1062	0.12%	0.024%
96	15.444	2263	2268	2276	rVB7	2100	3657	0.41%	0.084%
97	15.779	2330	2332	2335	rBV3	1136	977	0.11%	0.022%
98	15.842	2335	2344	2364	rVV	370445	581470	65.20%	13.373%
99	16.145	2401	2402	2408	rVB5	1596	2151	0.24%	0.049%
100	16.438	2453	2458	2469	rVB4	4836	9932	1.11%	0.228%

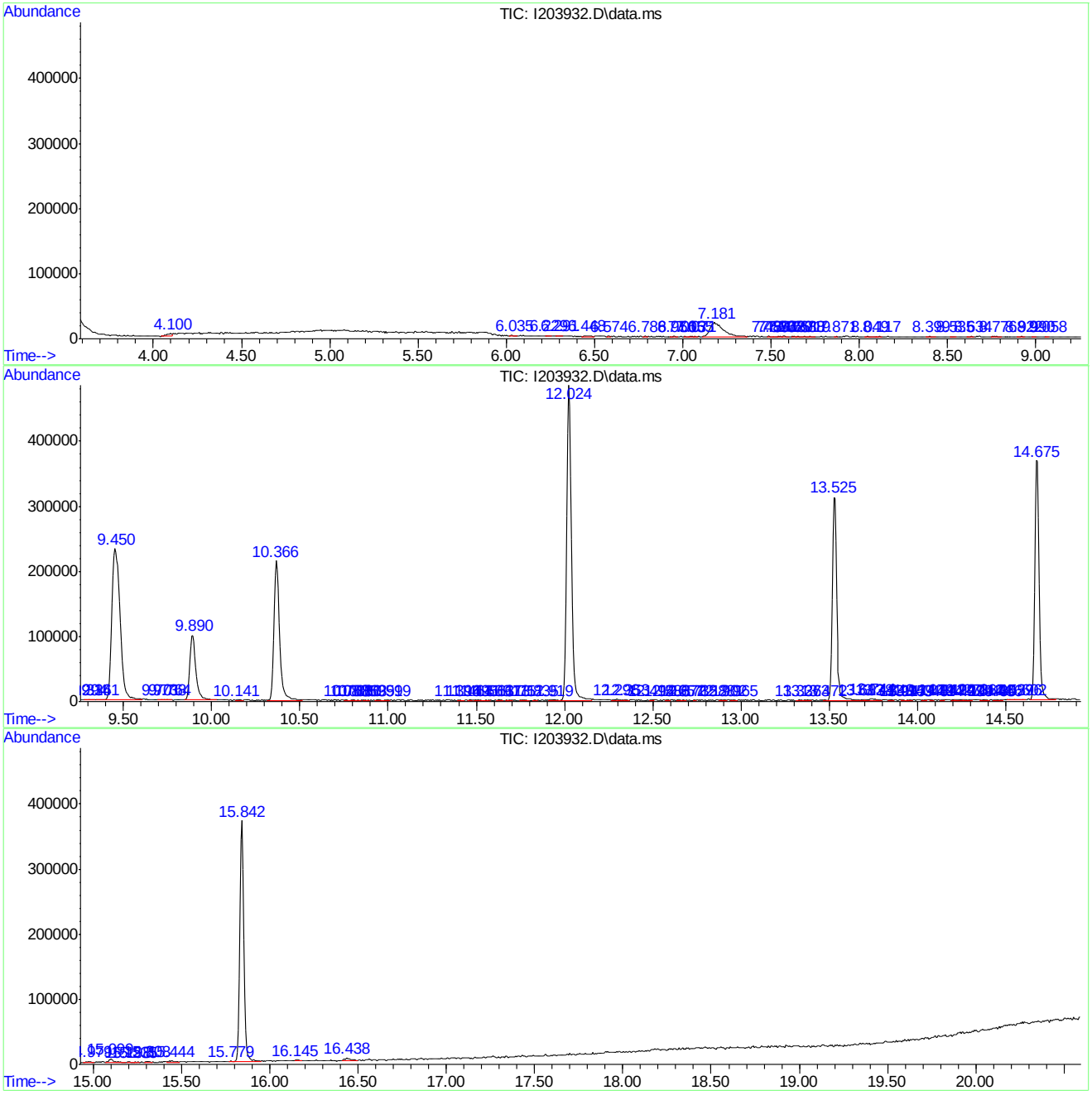
Sum of corrected areas: 4348014

LSC Report - Integrated Chromatogram

```
Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203932.D
Acq On    :  8 May 2015  11:21 am
Operator  : SCOTTM
Sample    : MB1
Misc      : MS84661,VI8194,,,,,1
ALS Vial  : 45   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title  : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P
```



MI8156.M Fri May 08 15:48:11 2015 RPT1 Page: 4

Tentatively Identified Compound (LSC) summary

```
Data Path : C:\msdchem\1\DATA\VI8194\
Data File : I203932.D
Acq On    :  8 May 2015  11:21 am
Operator  : SCOTTM
Sample    : MB1
Misc      : MS84661,VI8194,,,,,1
ALS Vial  : 45   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title  : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

                                                  |--Internal Standard---|
TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------
```

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203955.D
Acq On : 9 May 2015 2:27 am
Operator : SCOTTM
Sample : MB1
Misc : MS84837,VI8195,,,,,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: May 11 12:08:28 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 30 09:04:29 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.165	65	53490	500.00 ug/L	-0.03
5) pentafluorobenzene	9.445	168	146967	50.00 ug/L	0.00
48) 1,4-difluorobenzene	10.366	114	177289	50.00 ug/L	0.00
79) chlorobenzene-d5	13.525	117	156978	50.00 ug/L	0.00
94) 1,4-dichlorobenzene-d4	15.842	152	81792	50.00 ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.471	113	75963	49.14 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.28%		
49) 1,2-dichloroethane-d4...	9.890	65	76568	48.32 ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 96.64%		
80) toluene-d8 (s)	12.024	98	295729	45.10 ug/L	0.00
Spiked Amount 50.000	Range 78 - 129		Recovery = 90.20%		
95) 4-bromofluorobenzene (s)	14.675	95	108671	47.98 ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 95.96%		

Target Compounds Qvalue

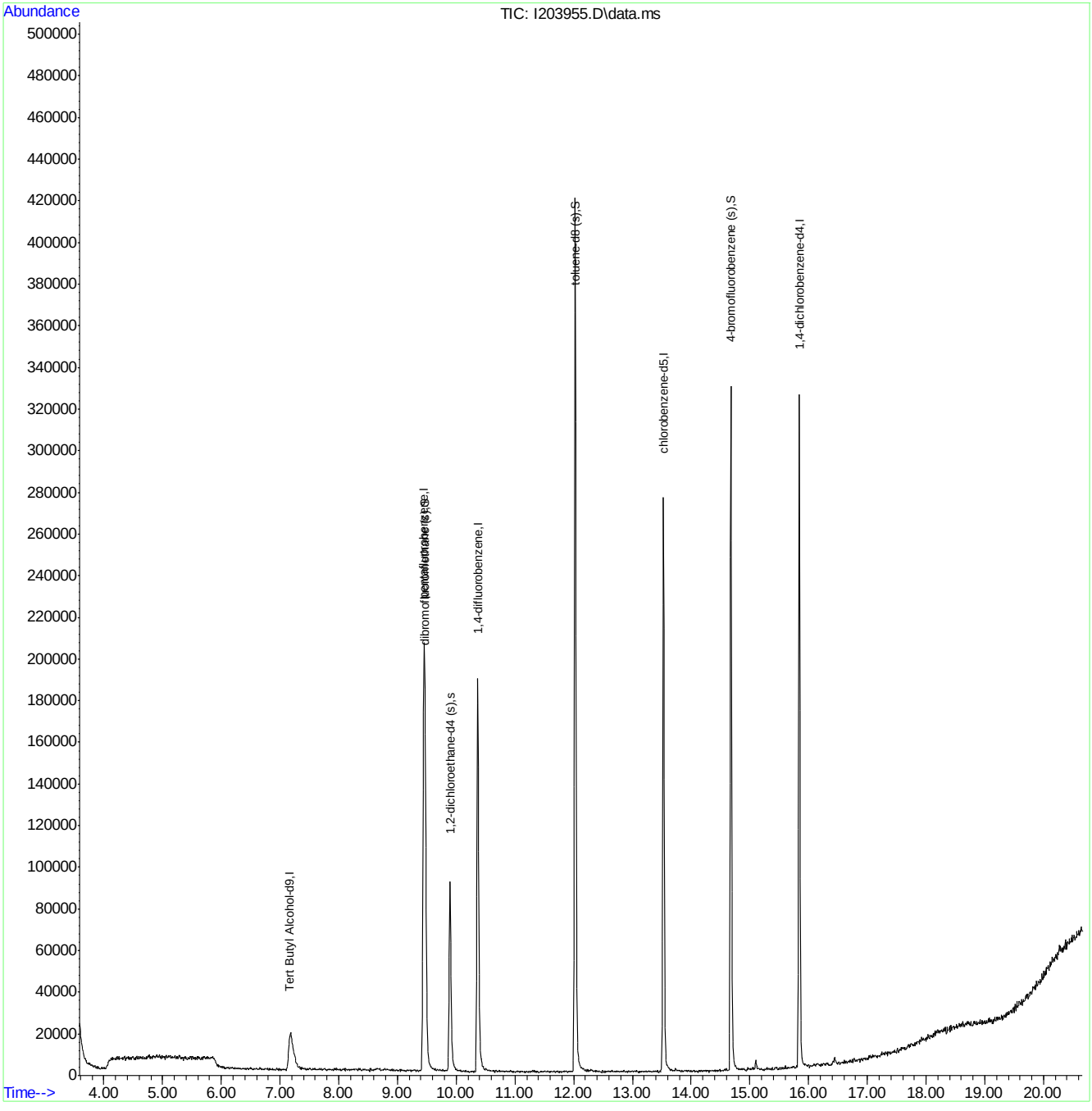
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ACCUTEST LABORATORIES JB94209

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203955.D
Acq On : 9 May 2015 2:27 am
Operator : SCOTTM
Sample : MB1
Misc : MS84837,VI8195,,,,,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: May 11 12:08:28 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Apr 30 09:04:29 2015
Response via : Initial Calibration



MI8156.M Mon May 11 12:13:11 2015 RPT1

Page: 2

ACCUTEST LABORATORIES JB94209

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203955.D
Acq On : 9 May 2015 2:27 am
Operator : SCOTTM
Sample : MB1
Misc : MS84837,VI8195,,,,,1
ALS Vial : 28 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

Signal : TIC: I20395

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.095	86	98	101	rBV3	4450	12121	1.55%	0.314%
2	6.480	551	554	556	rBV2	1040	1130	0.14%	0.029%
3	6.746	602	605	610	rBV4	1025	1571	0.20%	0.041%
4	6.945	638	643	646	rBV4	1041	1353	0.17%	0.035%
5	6.987	649	651	653	rBV	1173	812	0.10%	0.021%
6	7.180	674	688	713	rBV3	18178	103406	13.26%	2.677%
7	7.515	746	752	759	rVB6	936	1954	0.25%	0.051%
8	7.824	806	811	814	rBV2	701	1116	0.14%	0.029%
9	7.928	828	831	832	rBV2	925	660	0.08%	0.017%
10	7.960	836	837	846	rVB5	1172	1514	0.19%	0.039%
11	8.038	851	852	855	rBV2	722	619	0.08%	0.016%
12	8.059	855	856	862	rBV5	903	1344	0.17%	0.035%
13	8.117	866	867	874	rBV5	1141	1524	0.20%	0.039%
14	8.195	880	882	884	rBV2	973	674	0.09%	0.017%
15	8.336	906	909	910	rBV3	1000	791	0.10%	0.020%
16	8.404	918	922	926	rBV4	898	1681	0.22%	0.044%
17	8.530	945	946	951	rBV2	1543	1724	0.22%	0.045%
18	8.566	951	953	957	rVV3	669	856	0.11%	0.022%
19	8.634	960	966	969	rVV6	1187	1839	0.24%	0.048%
20	8.661	969	971	976	rVB4	805	826	0.11%	0.021%
21	8.786	992	995	998	rVV5	803	781	0.10%	0.020%
22	8.912	1017	1019	1022	rBV3	1053	891	0.11%	0.023%
23	8.938	1023	1024	1028	rVB3	615	602	0.08%	0.016%
24	9.058	1045	1047	1049	rBV2	1168	971	0.12%	0.025%
25	9.163	1064	1067	1068	rBV3	772	715	0.09%	0.019%
26	9.241	1080	1082	1084	rBV2	895	774	0.10%	0.020%
27	9.283	1087	1090	1093	rVV3	1012	1453	0.19%	0.038%
28	9.341	1097	1101	1104	rVV5	945	1159	0.15%	0.030%
29	9.450	1109	1122	1155	rVV3	205612	682863	87.59%	17.677%
30	9.644	1156	1159	1163	rVB3	949	1114	0.14%	0.029%
31	9.728	1173	1175	1178	rVB2	867	777	0.10%	0.020%
32	9.769	1181	1183	1187	rVB3	1059	671	0.09%	0.017%
33	9.801	1187	1189	1192	rBV3	677	601	0.08%	0.016%
34	9.895	1198	1207	1226	rBV2	90863	208287	26.72%	5.392%

MI8156.M Mon May 11 12:08:35 2015 RPT1 Page: 1

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203955.D
Acq On : 9 May 2015 2:27 am
Operator : SCOTTM
Sample : MB1
Misc : MS84837,VI8195,,,,,1
ALS Vial : 28 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

35	10.041	1233	1235	1240	rVB3	697	810	0.10%	0.021%
36	10.167	1255	1259	1262	rBV5	856	893	0.11%	0.023%
37	10.251	1268	1275	1277	rBV2	486	848	0.11%	0.022%
38	10.277	1277	1280	1283	rVB2	639	785	0.10%	0.020%
39	10.303	1283	1285	1287	rBV2	924	905	0.12%	0.023%
40	10.366	1287	1297	1321	rVV	188842	414572	53.17%	10.732%
41	10.502	1321	1323	1328	rVB4	973	1064	0.14%	0.028%
42	10.627	1343	1347	1349	rVB3	941	1029	0.13%	0.027%
43	10.643	1349	1350	1353	rVB2	897	706	0.09%	0.018%
44	10.674	1353	1356	1360	rBV2	883	1031	0.13%	0.027%
45	10.732	1364	1367	1371	rVB4	900	1009	0.13%	0.026%
46	10.847	1384	1389	1392	rBV3	636	831	0.11%	0.022%
47	10.978	1413	1414	1419	rVB2	754	766	0.10%	0.020%
48	11.087	1434	1435	1438	rBV3	906	741	0.10%	0.019%
49	11.108	1438	1439	1442	rVV3	723	598	0.08%	0.015%
50	11.276	1468	1471	1473	rVV2	716	617	0.08%	0.016%
51	11.459	1505	1506	1511	rVV2	769	883	0.11%	0.023%
52	11.506	1513	1515	1521	rVV2	888	1245	0.16%	0.032%
53	11.548	1521	1523	1530	rVV2	948	1386	0.18%	0.036%
54	11.668	1540	1546	1550	rVV2	780	1615	0.21%	0.042%
55	11.726	1550	1557	1560	rVV3	935	1765	0.23%	0.046%
56	11.867	1583	1584	1590	rVB4	896	974	0.12%	0.025%
57	12.024	1606	1614	1633	rBV	419561	779640	100.00%	20.183%
58	12.233	1652	1654	1658	rBV5	1040	964	0.12%	0.025%
59	12.290	1664	1665	1673	rVB4	1448	1822	0.23%	0.047%
60	12.426	1689	1691	1696	rVB4	668	825	0.11%	0.021%
61	12.489	1700	1703	1708	rVB3	1113	899	0.12%	0.023%
62	12.541	1712	1713	1717	rBV3	547	669	0.09%	0.017%
63	12.646	1728	1733	1736	rVB2	947	968	0.12%	0.025%
64	12.798	1758	1762	1763	rVB3	858	602	0.08%	0.016%
65	12.855	1771	1773	1781	rVB4	878	1279	0.16%	0.033%
66	12.928	1784	1787	1792	rBV4	1094	2088	0.27%	0.054%
67	13.002	1797	1801	1803	rBV4	789	795	0.10%	0.021%
68	13.028	1803	1806	1810	rVV2	614	654	0.08%	0.017%
69	13.070	1813	1814	1820	rVB3	1079	1133	0.15%	0.029%
70	13.200	1830	1839	1841	rBV4	493	1042	0.13%	0.027%
71	13.268	1849	1852	1855	rVB3	588	628	0.08%	0.016%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203955.D
Acq On : 9 May 2015 2:27 am
Operator : SCOTTM
Sample : MB1
Misc : MS84837,VI8195,,,,,1
ALS Vial : 28 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

72	13.425	1879	1882	1887	rVB3	1052	1352	0.17%	0.035%
73	13.467	1887	1890	1892	rBV2	832	798	0.10%	0.021%
74	13.525	1892	1901	1924	rBV	276031	489915	62.84%	12.682%
75	13.734	1938	1941	1951	rVV7	1315	2473	0.32%	0.064%
76	13.959	1981	1984	1986	rVB2	754	688	0.09%	0.018%
77	13.995	1986	1991	1994	rBV3	737	806	0.10%	0.021%
78	14.152	2018	2021	2023	rBV2	1131	1102	0.14%	0.029%
79	14.179	2024	2026	2029	rVB3	752	648	0.08%	0.017%
80	14.205	2029	2031	2035	rBV3	924	1167	0.15%	0.030%
81	14.273	2040	2044	2049	rVB5	1207	2362	0.30%	0.061%
82	14.314	2049	2052	2058	rBV4	1038	2130	0.27%	0.055%
83	14.351	2058	2059	2064	rVV4	1111	935	0.12%	0.024%
84	14.398	2066	2068	2070	rVV3	769	646	0.08%	0.017%
85	14.440	2073	2076	2080	rVV3	986	990	0.13%	0.026%
86	14.487	2080	2085	2087	rVB3	1293	1404	0.18%	0.036%
87	14.576	2097	2102	2105	rBV5	1083	1800	0.23%	0.047%
88	14.675	2113	2121	2135	rBV	328397	543748	69.74%	14.076%
89	14.963	2172	2176	2178	rBV4	1691	1823	0.23%	0.047%
90	15.099	2197	2202	2209	rVB4	4748	7250	0.93%	0.188%
91	15.261	2230	2233	2235	rBV2	803	1036	0.13%	0.027%
92	15.282	2235	2237	2239	rBV3	1108	826	0.11%	0.021%
93	15.381	2254	2256	2261	rBV4	1073	1116	0.14%	0.029%
94	15.565	2290	2291	2295	rVV4	1068	838	0.11%	0.022%
95	15.601	2295	2298	2299	rVB3	1216	968	0.12%	0.025%
96	15.706	2315	2318	2321	rBV4	823	1061	0.14%	0.027%
97	15.842	2337	2344	2357	rBV	323317	515295	66.09%	13.339%
98	16.025	2377	2379	2384	rBV5	1182	2056	0.26%	0.053%
99	16.307	2430	2433	2440	rBV8	1516	2538	0.33%	0.066%
100	16.443	2456	2459	2468	rVB6	3713	6915	0.89%	0.179%

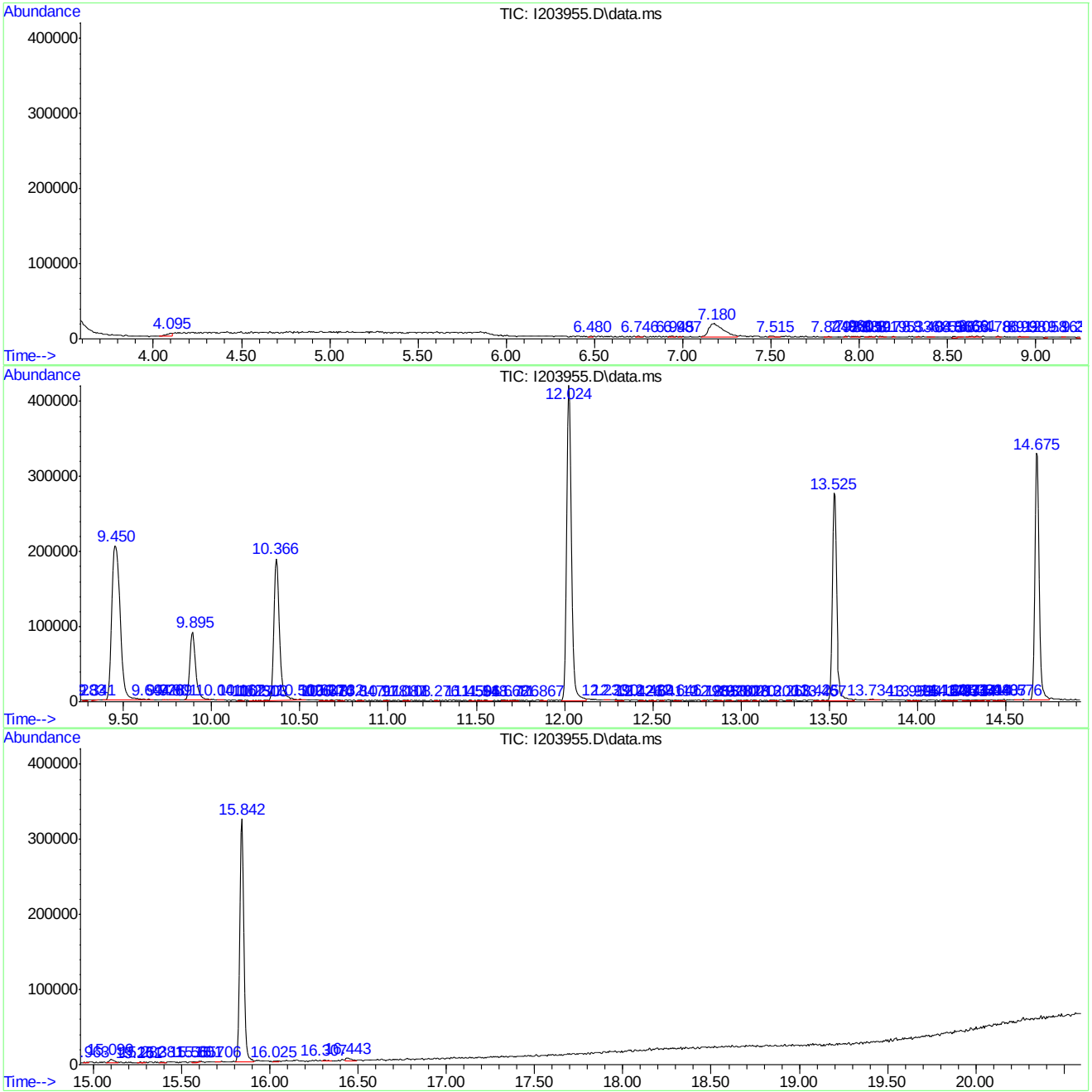
Sum of corrected areas: 3862941

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203955.D
Acq On : 9 May 2015 2:27 am
Operator : SCOTTM
Sample : MB1
Misc : MS84837,VI8195,,,,,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P



MI8156.M Mon May 11 12:08:36 2015 RPT1 Page: 4

Tentatively Identified Compound (LSC) summary

```
Data Path : C:\msdchem\1\DATA\VI8195\
Data File : I203955.D
Acq On    :  9 May 2015   2:27 am
Operator  : SCOTTM
Sample    : MB1
Misc      : MS84837,VI8195,,,,,1
ALS Vial  : 28   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title  : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

                                                  |--Internal Standard---|
TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------
```

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8196\
Data File : I203982.D
Acq On : 11 May 2015 12:03 pm
Operator : SCOTTM
Sample : MB1
Misc : MS84849,VI8196,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 12 09:02:36 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon May 11 11:02:06 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.175	65	88044	500.00	ug/L	-0.02
5) pentafluorobenzene	9.445	168	223392	50.00	ug/L	0.00
48) 1,4-difluorobenzene	10.366	114	269978	50.00	ug/L	0.00
79) chlorobenzene-d5	13.525	117	244672	50.00	ug/L	0.00
94) 1,4-dichlorobenzene-d4	15.842	152	124073	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.471	113	114709	48.82	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 97.64%			
49) 1,2-dichloroethane-d4...	9.890	65	110876	45.95	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 91.90%			
80) toluene-d8 (s)	12.024	98	460851	45.09	ug/L	0.00
Spiked Amount 50.000	Range 78 - 129		Recovery = 90.18%			
95) 4-bromofluorobenzene (s)	14.675	95	165102	48.05	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 96.10%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

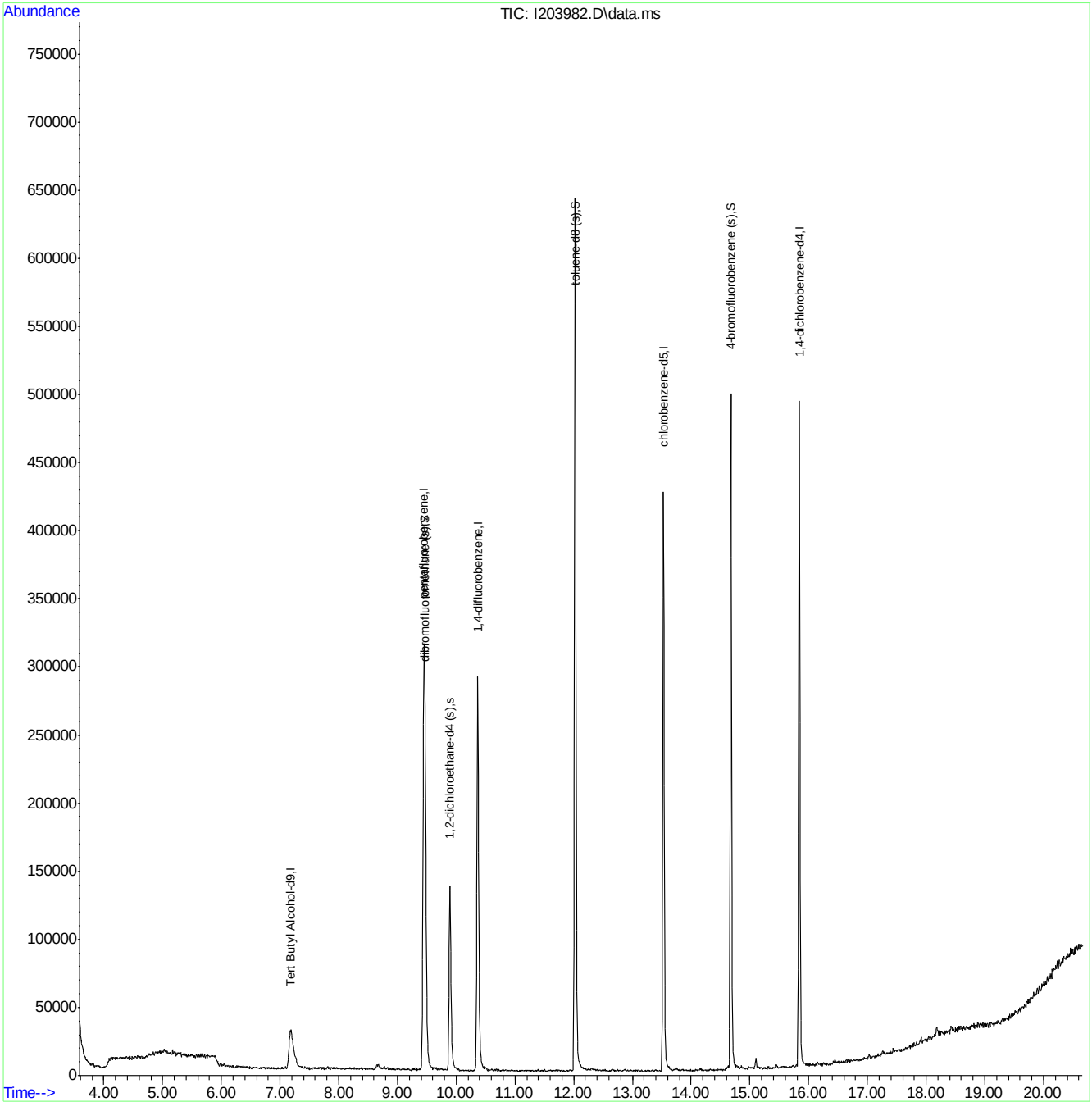
7.2.9

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8196\
Data File : I203982.D
Acq On : 11 May 2015 12:03 pm
Operator : SCOTTM
Sample : MB1
Misc : MS84849,VI8196,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 12 09:02:36 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon May 11 11:02:06 2015
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8196\
Data File : I203982.D
Acq On : 11 May 2015 12:03 pm
Operator : SCOTTM
Sample : MB1
Misc : MS84849,VI8196,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 550 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.5 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

Signal : TIC: I20398

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.094	87	98	99	rBV7	5853	10982	0.91%	0.188%
2	5.988	457	460	469	rBV9	2023	3538	0.29%	0.061%
3	6.840	620	623	626	rVB4	1349	1247	0.10%	0.021%
4	7.039	659	661	666	rBV4	1875	2325	0.19%	0.040%
5	7.076	666	668	670	rBV2	1495	898	0.07%	0.015%
6	7.191	675	690	712	rBV2	29072	161991	13.46%	2.777%
7	7.421	732	734	739	rVB5	1454	1276	0.11%	0.022%
8	7.546	757	758	764	rBV4	1443	2437	0.20%	0.042%
9	7.677	781	783	787	rVB3	1682	2218	0.18%	0.038%
10	7.876	818	821	825	rBV4	1564	2671	0.22%	0.046%
11	8.017	844	848	853	rVB5	1089	1661	0.14%	0.028%
12	8.258	893	894	897	rBV3	1472	842	0.07%	0.014%
13	8.430	922	927	931	rVB6	1651	2753	0.23%	0.047%
14	8.650	962	969	970	rBV6	3772	6502	0.54%	0.111%
15	8.776	990	993	996	rVB5	2186	2680	0.22%	0.046%
16	8.828	1001	1003	1010	rVV5	1380	1025	0.09%	0.018%
17	9.000	1030	1036	1037	rVB3	1314	1596	0.13%	0.027%
18	9.016	1038	1039	1045	rVV4	1216	1410	0.12%	0.024%
19	9.105	1049	1056	1058	rBV5	1390	2602	0.22%	0.045%
20	9.178	1069	1070	1075	rVB3	1380	1365	0.11%	0.023%
21	9.246	1080	1083	1084	rBV2	1704	1462	0.12%	0.025%
22	9.377	1104	1108	1110	rVB4	1443	1145	0.10%	0.020%
23	9.450	1110	1122	1151	rBV2	313622	1008387	83.77%	17.285%
24	9.686	1166	1167	1172	rBV2	1738	1073	0.09%	0.018%
25	9.890	1196	1206	1230	rVB	134567	311052	25.84%	5.332%
26	10.203	1263	1266	1268	rVB3	1297	1400	0.12%	0.024%
27	10.240	1268	1273	1275	rBV	1199	2104	0.17%	0.036%
28	10.303	1282	1285	1286	rBV2	1103	954	0.08%	0.016%
29	10.366	1288	1297	1318	rVV	288941	622983	51.75%	10.679%
30	10.549	1330	1332	1335	rBV3	968	1031	0.09%	0.018%
31	10.575	1335	1337	1340	rBV4	853	838	0.07%	0.014%
32	10.685	1355	1358	1360	rVB3	1553	1375	0.11%	0.024%
33	10.726	1364	1366	1368	rVB2	1810	976	0.08%	0.017%
34	10.800	1377	1380	1384	rVB4	1281	1726	0.14%	0.030%

MI8156.M Mon May 18 13:34:39 2015 RPT1 Page: 1

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8196\
Data File : I203982.D
Acq On : 11 May 2015 12:03 pm
Operator : SCOTTM
Sample : MB1
Misc : MS84849,VI8196,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 550 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.5 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

35	10.836	1384	1387	1392	rVB3	1460	2197	0.18%	0.038%
36	10.878	1392	1395	1397	rBV	1342	1355	0.11%	0.023%
37	10.925	1401	1404	1407	rBV2	1170	984	0.08%	0.017%
38	11.019	1420	1422	1427	rVB5	1766	2149	0.18%	0.037%
39	11.066	1427	1431	1432	rBV2	1187	1522	0.13%	0.026%
40	11.213	1453	1459	1462	rBV5	1223	1438	0.12%	0.025%
41	11.344	1479	1484	1488	rVB2	1209	2387	0.20%	0.041%
42	11.391	1490	1493	1498	rBV3	1555	1627	0.14%	0.028%
43	11.495	1510	1513	1515	rBV3	1106	1252	0.10%	0.021%
44	11.574	1525	1528	1531	rBV	814	838	0.07%	0.014%
45	11.663	1541	1545	1549	rBV2	976	1131	0.09%	0.019%
46	11.699	1549	1552	1554	rBV3	867	1101	0.09%	0.019%
47	11.788	1567	1569	1571	rBV3	1280	985	0.08%	0.017%
48	11.804	1571	1572	1576	rVB	1515	1111	0.09%	0.019%
49	11.830	1576	1577	1581	rBV3	1114	869	0.07%	0.015%
50	11.893	1583	1589	1591	rBV5	2001	3221	0.27%	0.055%
51	11.929	1594	1596	1601	rBV3	1052	1260	0.10%	0.022%
52	12.024	1606	1614	1642	rBV	640800	1203730	100.00%	20.633%
53	12.301	1663	1667	1676	rVB6	1414	3388	0.28%	0.058%
54	12.431	1690	1692	1699	rBV5	1240	1964	0.16%	0.034%
55	12.656	1733	1735	1739	rVV3	1093	1205	0.10%	0.021%
56	12.683	1739	1740	1743	rVB2	1324	1027	0.09%	0.018%
57	12.745	1748	1752	1755	rBV2	1304	1093	0.09%	0.019%
58	12.871	1768	1776	1778	rBV8	1710	2681	0.22%	0.046%
59	12.913	1783	1784	1788	rVV3	890	1011	0.08%	0.017%
60	12.970	1789	1795	1796	rVB5	929	1272	0.11%	0.022%
61	13.017	1801	1804	1808	rVB3	1094	1715	0.14%	0.029%
62	13.075	1813	1815	1817	rVB3	1228	871	0.07%	0.015%
63	13.101	1817	1820	1824	rBV4	1392	1529	0.13%	0.026%
64	13.164	1829	1832	1836	rBV4	1589	1776	0.15%	0.030%
65	13.221	1836	1843	1845	rBV4	919	1161	0.10%	0.020%
66	13.263	1847	1851	1852	rBV3	1243	1209	0.10%	0.021%
67	13.336	1861	1865	1867	rVB3	897	1004	0.08%	0.017%
68	13.394	1871	1876	1879	rBV4	1225	2144	0.18%	0.037%
69	13.525	1893	1901	1919	rBV	425958	751766	62.45%	12.886%
70	13.666	1927	1928	1931	rVB2	1340	968	0.08%	0.017%
71	13.739	1938	1942	1949	rVB6	2235	3918	0.33%	0.067%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8196\
Data File : I203982.D
Acq On : 11 May 2015 12:03 pm
Operator : SCOTTM
Sample : MB1
Misc : MS84849,VI8196,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 550 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.5 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

72	13.812	1954	1956	1958	rVB2	1501	987	0.08%	0.017%
73	13.849	1958	1963	1968	rBV5	1557	2975	0.25%	0.051%
74	13.885	1968	1970	1972	rBV	1136	1035	0.09%	0.018%
75	13.912	1972	1975	1978	rVB4	1038	991	0.08%	0.017%
76	13.938	1978	1980	1984	rBV4	874	958	0.08%	0.016%
77	13.985	1984	1989	1992	rVB6	1181	1221	0.10%	0.021%
78	14.016	1992	1995	1996	rVB2	1130	877	0.07%	0.015%
79	14.048	1999	2001	2004	rBV3	1074	1008	0.08%	0.017%
80	14.074	2004	2006	2012	rVB4	1540	2210	0.18%	0.038%
81	14.116	2012	2014	2017	rBV3	1512	1518	0.13%	0.026%
82	14.152	2019	2021	2023	rVV2	1815	1473	0.12%	0.025%
83	14.189	2026	2028	2033	rBV5	1065	1321	0.11%	0.023%
84	14.325	2051	2054	2059	rVV4	775	1162	0.10%	0.020%
85	14.388	2064	2066	2068	rBV3	1528	855	0.07%	0.015%
86	14.461	2077	2080	2084	rBV4	1106	1510	0.13%	0.026%
87	14.508	2086	2089	2095	rVB4	1569	2009	0.17%	0.034%
88	14.544	2095	2096	2100	rBV3	1074	907	0.08%	0.016%
89	14.597	2102	2106	2107	rBV2	2156	2171	0.18%	0.037%
90	14.628	2108	2112	2113	rVV4	2060	1662	0.14%	0.028%
91	14.680	2113	2122	2139	rVV	495189	813118	67.55%	13.938%
92	14.858	2155	2156	2168	rVB6	2545	4337	0.36%	0.074%
93	14.979	2176	2179	2181	rBV4	1689	1117	0.09%	0.019%
94	15.104	2196	2203	2207	rBV6	8010	13482	1.12%	0.231%
95	15.303	2239	2241	2244	rBV2	1734	1155	0.10%	0.020%
96	15.439	2264	2267	2268	rBV3	2632	2030	0.17%	0.035%
97	15.842	2337	2344	2368	rBV	488329	779770	64.78%	13.366%
98	16.145	2401	2402	2414	rVB	2679	4071	0.34%	0.070%
99	16.255	2419	2423	2428	rBV7	2754	5614	0.47%	0.096%
100	16.663	2500	2501	2505	rBV4	3242	2955	0.25%	0.051%

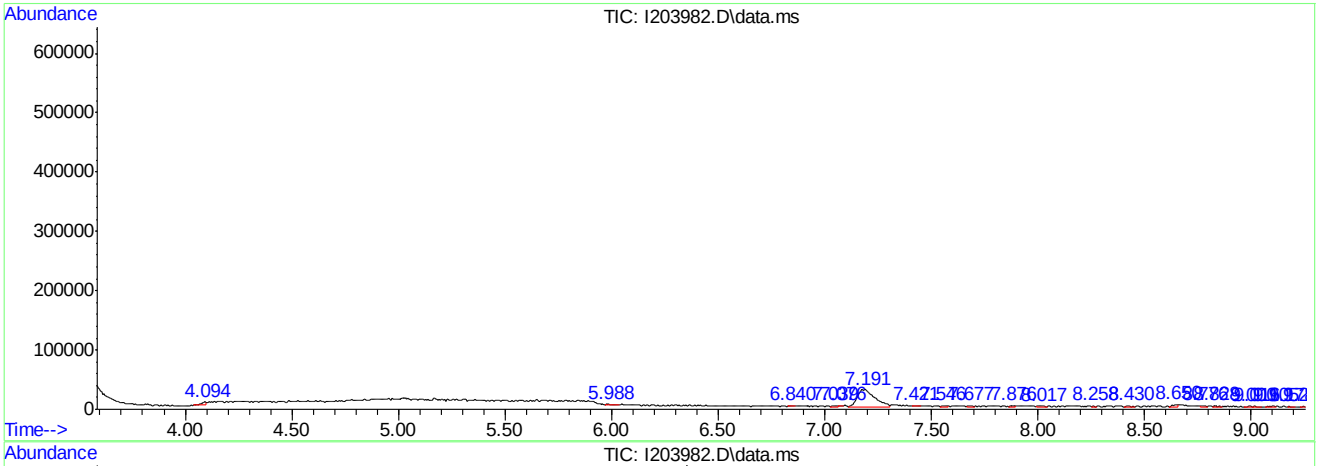
Sum of corrected areas: 5833883

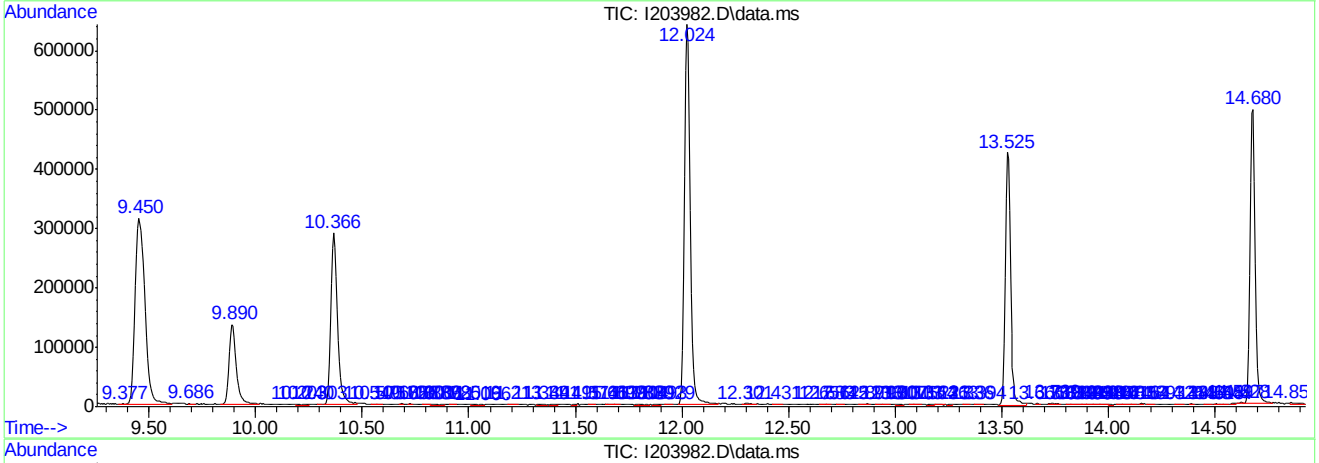
LSC Report - Integrated Chromatogram

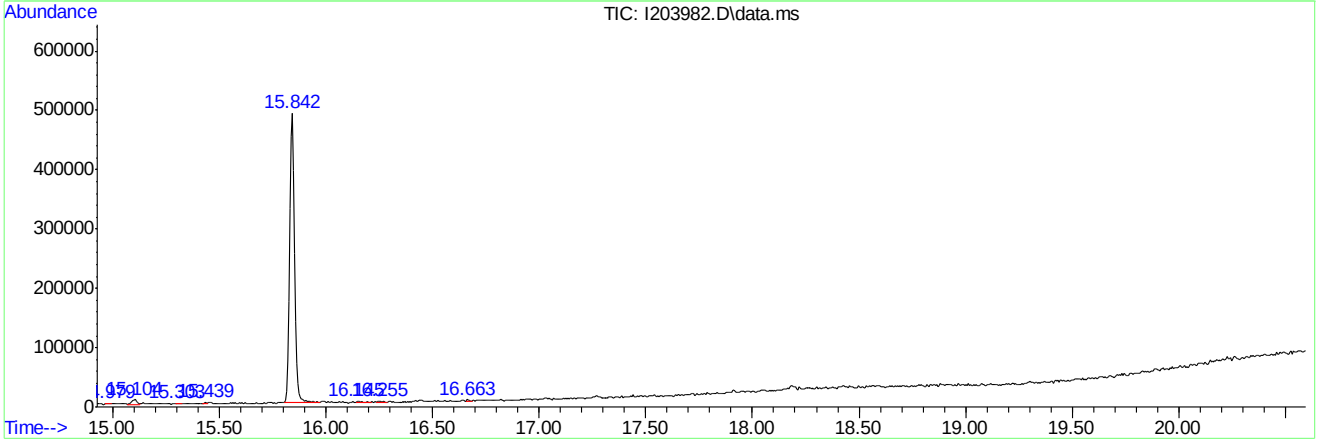
Data Path : C:\msdchem\1\DATA\VI8196\
Data File : I203982.D
Acq On : 11 May 2015 12:03 pm
Operator : SCOTTM
Sample : MB1
Misc : MS84849,VI8196,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P







Tentatively Identified Compound (LSC) summary

```
Data Path : C:\msdchem\1\DATA\VI8196\
Data File : I203982.D
Acq On    : 11 May 2015  12:03 pm
Operator  : SCOTTM
Sample    : MB1
Misc      : MS84849,VI8196,,,,,1
ALS Vial  : 4   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title  : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

                                                  |--Internal Standard---|
TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------
```

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8197\
Data File : I204005.D
Acq On : 12 May 2015 12:44 am
Operator : SCOTTM
Sample : MB1
Misc : MS84998,VI8197,,,,,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: May 12 12:14:55 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon May 11 11:02:06 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.175	65	86232	500.00	ug/L	-0.02
5) pentafluorobenzene	9.445	168	237347	50.00	ug/L	0.00
48) 1,4-difluorobenzene	10.366	114	282707	50.00	ug/L	0.00
79) chlorobenzene-d5	13.525	117	252595	50.00	ug/L	0.00
94) 1,4-dichlorobenzene-d4	15.842	152	129671	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.471	113	123563	49.50	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.00%			
49) 1,2-dichloroethane-d4...	9.890	65	114835	45.45	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 90.90%			
80) toluene-d8 (s)	12.024	98	474840	45.00	ug/L	0.00
Spiked Amount 50.000	Range 78 - 129		Recovery = 90.00%			
95) 4-bromofluorobenzene (s)	14.680	95	174591	48.62	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 97.24%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

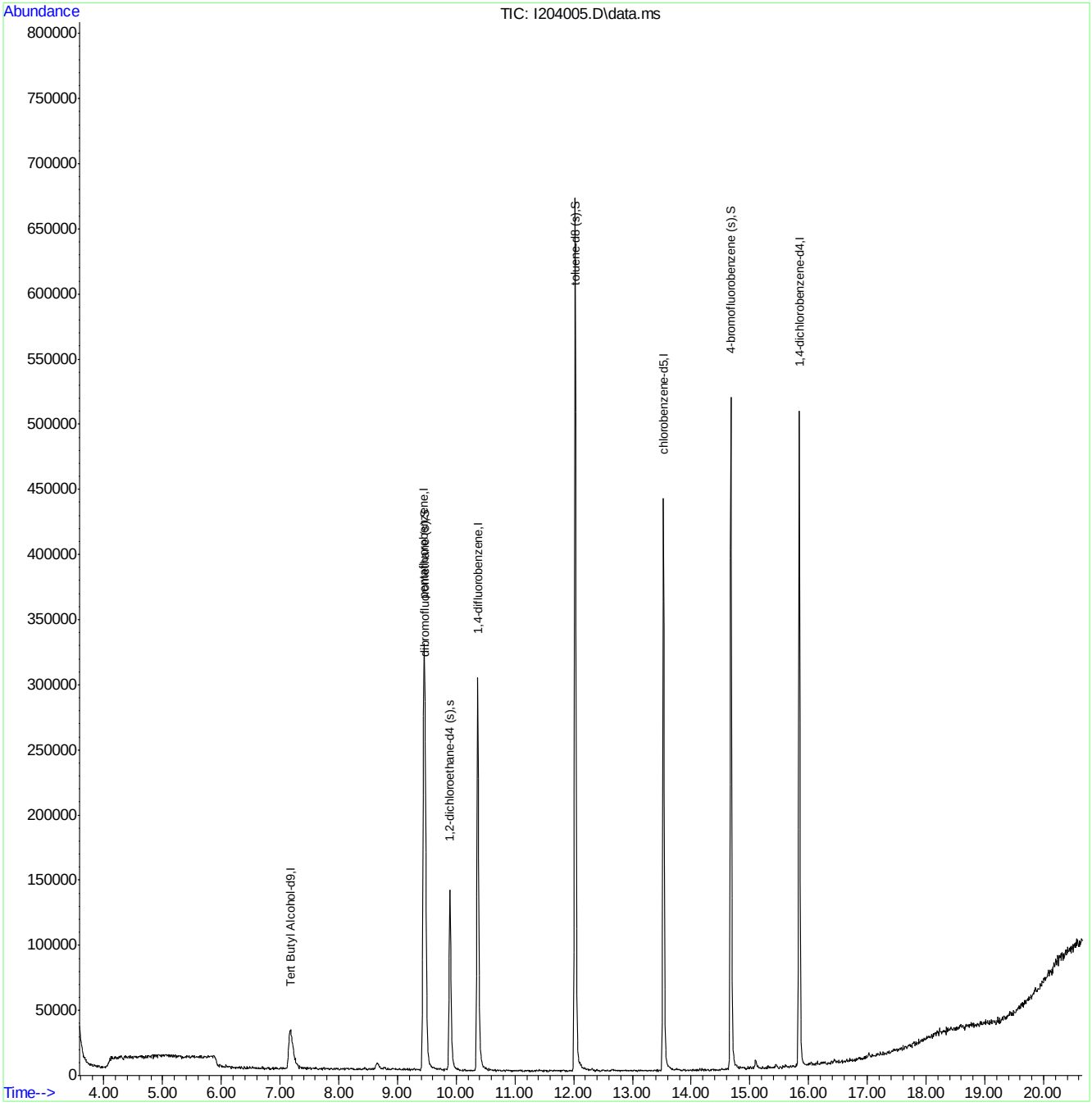
7.2.11

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI8197\
Data File : I204005.D
Acq On : 12 May 2015 12:44 am
Operator : SCOTTM
Sample : MB1
Misc : MS84998,VI8197,,,,,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: May 12 12:14:55 2015
Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon May 11 11:02:06 2015
Response via : Initial Calibration



MI8156.M Tue May 12 12:15:20 2015 RPT1

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8197\
Data File : I204005.D
Acq On : 12 May 2015 12:44 am
Operator : SCOTTM
Sample : MB1
Misc : MS84998,VI8197,,,,,1
ALS Vial : 31 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

Signal : TIC: I20400

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.105	86	100	101	rBV7	7762	18670	1.49%	0.304%
2	6.312	521	522	526	rVB4	1850	1663	0.13%	0.027%
3	6.349	527	529	533	rVB4	1765	1672	0.13%	0.027%
4	6.391	533	537	541	rBV3	1940	2285	0.18%	0.037%
5	6.438	544	546	548	rVB3	1980	1182	0.09%	0.019%
6	6.699	594	596	598	rVB3	2199	1301	0.10%	0.021%
7	6.720	598	600	603	rVB2	2323	2211	0.18%	0.036%
8	6.778	608	611	612	rBV3	1211	1096	0.09%	0.018%
9	6.882	625	631	636	rVB7	1803	2744	0.22%	0.045%
10	6.935	639	641	643	rBV3	1591	1167	0.09%	0.019%
11	6.992	649	652	654	rBV3	1105	1076	0.09%	0.018%
12	7.186	675	689	715	rVB2	29897	159265	12.75%	2.597%
13	7.332	715	717	724	rBV6	2398	3523	0.28%	0.057%
14	7.473	741	744	748	rBV3	1869	2637	0.21%	0.043%
15	7.604	766	769	770	rBV3	1235	1005	0.08%	0.016%
16	7.750	794	797	800	rVB4	1886	2355	0.19%	0.038%
17	7.771	800	801	808	rBV6	1631	2856	0.23%	0.047%
18	7.871	816	820	826	rVB5	1363	1887	0.15%	0.031%
19	7.918	826	829	832	rBV3	1479	1821	0.15%	0.030%
20	8.127	868	869	873	rBV4	1116	1102	0.09%	0.018%
21	8.200	880	883	885	rVB3	1037	1096	0.09%	0.018%
22	8.441	928	929	933	rVB4	1697	1468	0.12%	0.024%
23	8.572	953	954	959	rBV5	1176	978	0.08%	0.016%
24	8.660	960	971	977	rBV3	4915	15572	1.25%	0.254%
25	8.770	989	992	1001	rVB9	1757	3237	0.26%	0.053%
26	9.084	1048	1052	1055	rVB4	932	1076	0.09%	0.018%
27	9.168	1065	1068	1070	rVB4	1189	970	0.08%	0.016%
28	9.199	1071	1074	1077	rVB5	2163	2156	0.17%	0.035%
29	9.231	1077	1080	1084	rBV4	1690	2698	0.22%	0.044%
30	9.319	1095	1097	1101	rVB3	1044	1150	0.09%	0.019%
31	9.450	1110	1122	1152	rBV2	328306	1072927	85.89%	17.493%
32	9.827	1189	1194	1197	rBV5	1542	2950	0.24%	0.048%
33	9.890	1197	1206	1229	rVV2	138917	325786	26.08%	5.312%
34	10.135	1250	1253	1259	rVB6	1651	2004	0.16%	0.033%

MI8156.M Tue May 12 12:15:23 2015 RPT1 Page: 1

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8197\
Data File : I204005.D
Acq On : 12 May 2015 12:44 am
Operator : SCOTTM
Sample : MB1
Misc : MS84998,VI8197,,,,,1
ALS Vial : 31 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

35	10.177	1259	1261	1264	rBV3	1101	1018	0.08%	0.017%
36	10.240	1272	1273	1279	rVB2	1139	1650	0.13%	0.027%
37	10.287	1279	1282	1284	rBV3	1125	1093	0.09%	0.018%
38	10.366	1284	1297	1315	rBV	301630	654056	52.36%	10.664%
39	10.549	1331	1332	1336	rBV3	1623	1193	0.10%	0.019%
40	10.585	1336	1339	1343	rVB3	767	1003	0.08%	0.016%
41	10.664	1351	1354	1357	rVB3	2116	1763	0.14%	0.029%
42	10.690	1357	1359	1363	rBV3	1375	1799	0.14%	0.029%
43	10.747	1366	1370	1372	rBV2	1215	1210	0.10%	0.020%
44	10.821	1383	1384	1387	rVB3	1451	1104	0.09%	0.018%
45	10.842	1387	1388	1390	rBV2	1587	1155	0.09%	0.019%
46	10.941	1406	1407	1410	rBV3	1416	1222	0.10%	0.020%
47	11.004	1417	1419	1422	rVV3	1266	1138	0.09%	0.019%
48	11.035	1423	1425	1428	rVV2	972	1090	0.09%	0.018%
49	11.077	1428	1433	1437	rVV3	1315	1855	0.15%	0.030%
50	11.119	1437	1441	1443	rVB3	1251	1113	0.09%	0.018%
51	11.171	1448	1451	1452	rBV3	1115	954	0.08%	0.016%
52	11.291	1471	1474	1477	rBV3	1035	1175	0.09%	0.019%
53	11.344	1477	1484	1486	rBV4	1338	1886	0.15%	0.031%
54	11.365	1486	1488	1492	rBV3	1110	1221	0.10%	0.020%
55	11.532	1514	1520	1521	rBV3	1293	1302	0.10%	0.021%
56	11.548	1521	1523	1525	rVB2	1480	946	0.08%	0.015%
57	11.589	1528	1531	1534	rBV5	1075	1081	0.09%	0.018%
58	11.851	1575	1581	1585	rVB5	1740	3341	0.27%	0.054%
59	11.877	1585	1586	1589	rBV3	1657	1237	0.10%	0.020%
60	11.929	1594	1596	1600	rBV3	1140	963	0.08%	0.016%
61	12.024	1603	1614	1642	rBV	670510	1249152	100.00%	20.366%
62	12.264	1658	1660	1663	rBV3	1457	1150	0.09%	0.019%
63	12.311	1665	1669	1674	rVB5	1891	3213	0.26%	0.052%
64	12.390	1679	1684	1687	rBV3	1924	3151	0.25%	0.051%
65	12.431	1690	1692	1695	rVB4	1393	1278	0.10%	0.021%
66	12.473	1695	1700	1703	rBV4	1533	2276	0.18%	0.037%
67	12.494	1703	1704	1709	rBV2	1201	1435	0.11%	0.023%
68	12.677	1731	1739	1742	rVV7	1693	2983	0.24%	0.049%
69	12.771	1755	1757	1761	rVB4	1525	1505	0.12%	0.025%
70	12.839	1768	1770	1775	rVV3	805	1155	0.09%	0.019%
71	13.075	1812	1815	1818	rVB3	995	1052	0.08%	0.017%

MI8156.M Tue May 12 12:15:23 2015 RPT1 Page: 2

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\VI8197\
Data File : I204005.D
Acq On : 12 May 2015 12:44 am
Operator : SCOTTM
Sample : MB1
Misc : MS84998,VI8197,,,,,1
ALS Vial : 31 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 50 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MI8156.M
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

72	13.101	1818	1820	1823	rBV2	935	1217	0.10%	0.020%
73	13.410	1876	1879	1881	rVB3	1307	1087	0.09%	0.018%
74	13.425	1881	1882	1885	rVB3	1724	1128	0.09%	0.018%
75	13.467	1885	1890	1892	rBV3	1062	1550	0.12%	0.025%
76	13.525	1892	1901	1927	rBV	439733	780678	62.50%	12.728%
77	13.755	1938	1945	1947	rBV7	1608	2577	0.21%	0.042%
78	13.896	1965	1972	1975	rVV5	1219	2151	0.17%	0.035%
79	13.938	1975	1980	1982	rVB2	1153	1440	0.12%	0.023%
80	13.980	1985	1988	1993	rBV3	931	1119	0.09%	0.018%
81	14.142	2017	2019	2023	rVV4	1852	1429	0.11%	0.023%
82	14.184	2025	2027	2033	rVB4	2073	2198	0.18%	0.036%
83	14.225	2033	2035	2037	rBV3	1506	1317	0.11%	0.021%
84	14.262	2040	2042	2044	rBV3	1388	1388	0.11%	0.023%
85	14.435	2074	2075	2080	rVB2	821	1035	0.08%	0.017%
86	14.623	2108	2111	2112	rVB2	1272	1113	0.09%	0.018%
87	14.680	2112	2122	2145	rBV	516451	867187	69.42%	14.139%
88	14.837	2149	2152	2155	rBV4	1478	1262	0.10%	0.021%
89	14.968	2175	2177	2180	rBV4	1882	1667	0.13%	0.027%
90	14.994	2180	2182	2183	rBV2	1493	997	0.08%	0.016%
91	15.052	2190	2193	2195	rBV2	1891	1689	0.14%	0.028%
92	15.094	2195	2201	2209	rBV6	6835	15025	1.20%	0.245%
93	15.219	2223	2225	2231	rVB6	1743	2005	0.16%	0.033%
94	15.308	2240	2242	2245	rBV4	2556	1758	0.14%	0.029%
95	15.439	2264	2267	2277	rVB4	2897	5855	0.47%	0.095%
96	15.517	2279	2282	2288	rBV8	1934	3432	0.27%	0.056%
97	15.564	2288	2291	2295	rBV6	2935	3589	0.29%	0.059%
98	15.606	2296	2299	2305	rVB6	2200	3285	0.26%	0.054%
99	15.742	2321	2325	2330	rVB8	1431	1861	0.15%	0.030%
100	15.842	2335	2344	2367	rBV	503555	820877	65.71%	13.384%

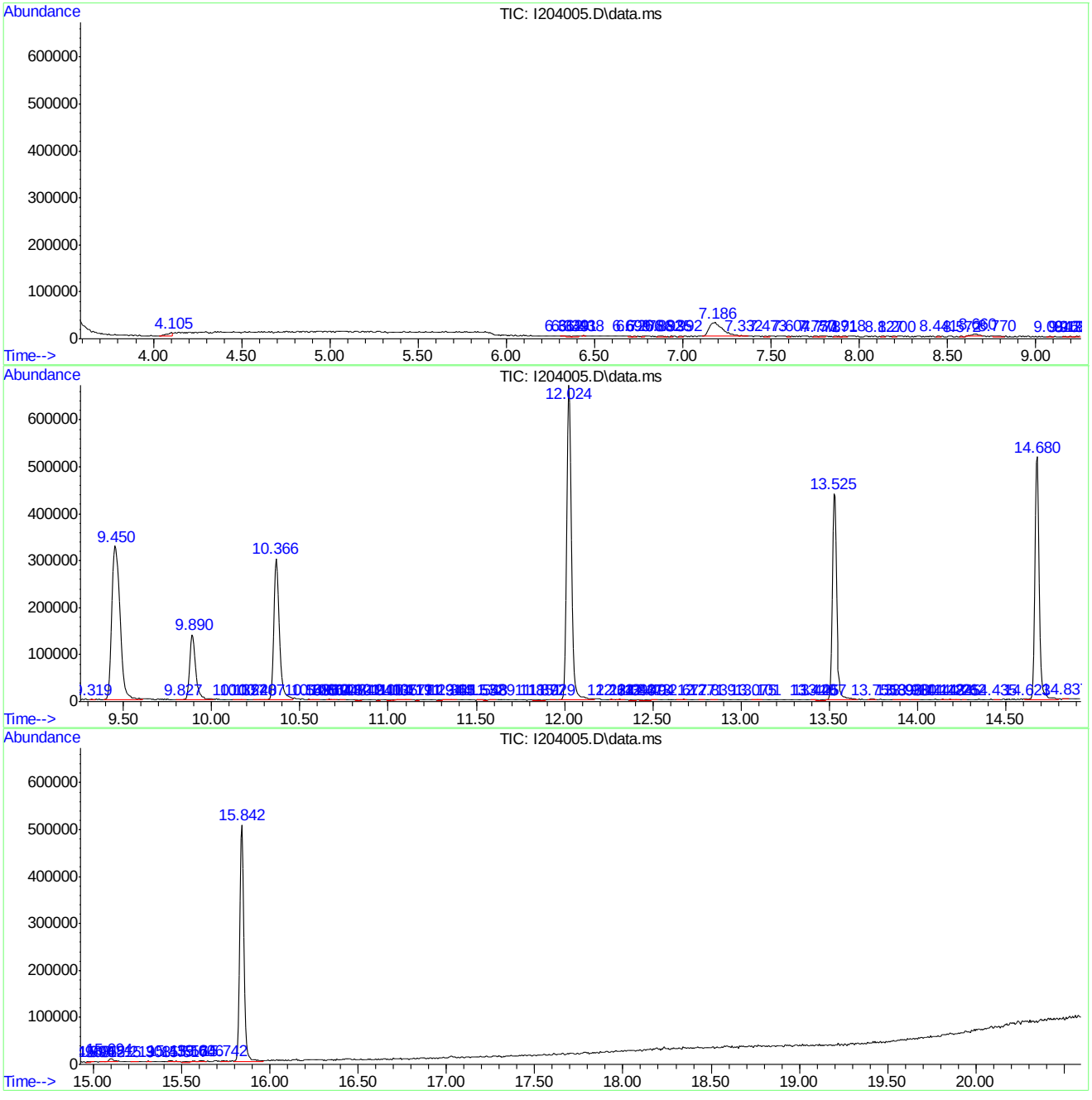
Sum of corrected areas: 6133420

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\VI8197\
Data File : I204005.D
Acq On : 12 May 2015 12:44 am
Operator : SCOTTM
Sample : MB1
Misc : MS84998,VI8197,,,,,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P



Tentatively Identified Compound (LSC) summary

```
Data Path : C:\msdchem\1\DATA\VI8197\
Data File : I204005.D
Acq On    : 12 May 2015  12:44 am
Operator  : SCOTTM
Sample    : MB1
Misc      : MS84998,VI8197,,,,,1
ALS Vial  : 31   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MI8156.M
Quant Title  : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT2.P

                                                  |--Internal Standard---|
TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------
```

No Library Search Compounds Detected
****

New Jersey

ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83797-MB1	P95331.D	1	05/09/15	KLS	05/09/15	OP83797	EP4119

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB94209-13, JB94209-14, JB94209-15, JB94209-16, JB94209-17

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	1.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.6	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	ug/l	
51-28-5	2,4-Dinitrophenol	ND	10	6.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.3	ug/l	
	3&4-Methylphenol	ND	2.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	10	0.91	ug/l	
87-86-5	Pentachlorophenol	ND	5.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.55	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	1.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.7	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.5	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.20	ug/l	
98-86-2	Acetophenone	ND	2.0	0.36	ug/l	
120-12-7	Anthracene	ND	1.0	0.19	ug/l	
1912-24-9	Atrazine	ND	2.0	0.42	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.67	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.31	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.22	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.25	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.22	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.27	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.30	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	
105-60-2	Caprolactam	ND	2.0	0.41	ug/l	
218-01-9	Chrysene	ND	1.0	0.16	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.42	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.43	ug/l	

Method Blank Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83797-MB1	P95331.D	1	05/09/15	KLS	05/09/15	OP83797	EP4119

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB94209-13, JB94209-14, JB94209-15, JB94209-16, JB94209-17

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.41	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.38	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.32	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.26	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.56	ug/l	
123-91-1	1,4-Dioxane	ND	1.0	0.72	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.28	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.23	ug/l	
84-74-2	Di-n-butyl phthalate	1.1	2.0	0.58	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	2.0	0.25	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.23	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.26	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.55	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.16	ug/l	
86-73-7	Fluorene	ND	1.0	0.27	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.46	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.39	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	0.48	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.29	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.40	ug/l	
78-59-1	Isophorone	ND	2.0	0.34	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.29	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.32	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.26	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.30	ug/l	
91-20-3	Naphthalene	ND	1.0	0.27	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.52	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.38	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.21	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.19	ug/l	
129-00-0	Pyrene	ND	1.0	0.19	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.44	ug/l	

Method Blank Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83797-MB1	P95331.D	1	05/09/15	KLS	05/09/15	OP83797	EP4119

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB94209-13, JB94209-14, JB94209-15, JB94209-16, JB94209-17

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	46%	12-110%
4165-62-2	Phenol-d5	32%	10-110%
118-79-6	2,4,6-Tribromophenol	101%	42-154%
4165-60-0	Nitrobenzene-d5	96%	29-139%
321-60-8	2-Fluorobiphenyl	92%	33-129%
1718-51-0	Terphenyl-d14	75%	10-140%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83787-MB1	2P48471.D	1	05/11/15	SD	05/09/15	OP83787	E2P2069

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB94209-1, JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-9, JB94209-10, JB94209-11, JB94209-12, JB94209-18

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	67	33	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	33	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	54	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	56	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	41	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	41	ug/kg	
95-48-7	2-Methylphenol	ND	67	38	ug/kg	
	3&4-Methylphenol	ND	67	42	ug/kg	
88-75-5	2-Nitrophenol	ND	170	35	ug/kg	
100-02-7	4-Nitrophenol	ND	330	56	ug/kg	
87-86-5	Pentachlorophenol	ND	170	57	ug/kg	
108-95-2	Phenol	ND	67	35	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	34	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	39	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	31	ug/kg	
83-32-9	Acenaphthene	ND	33	9.7	ug/kg	
208-96-8	Acenaphthylene	ND	33	11	ug/kg	
98-86-2	Acetophenone	ND	170	5.9	ug/kg	
120-12-7	Anthracene	ND	33	12	ug/kg	
1912-24-9	Atrazine	ND	67	6.6	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	11	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	10	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	19	ug/kg	
92-52-4	1,1'-Biphenyl	ND	67	3.9	ug/kg	
100-52-7	Benzaldehyde	ND	170	7.7	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	10	ug/kg	
106-47-8	4-Chloroaniline	ND	170	11	ug/kg	
86-74-8	Carbazole	ND	67	15	ug/kg	
105-60-2	Caprolactam	ND	67	10	ug/kg	
218-01-9	Chrysene	ND	33	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	10	ug/kg	

Method Blank Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83787-MB1	2P48471.D	1	05/11/15	SD	05/09/15	OP83787	E2P2069

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB94209-1, JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-9, JB94209-10, JB94209-11, JB94209-12, JB94209-18

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	67	9.9	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	10	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	33	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	33	13	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	67	8.5	ug/kg	
123-91-1	1,4-Dioxane	ND	33	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	11	ug/kg	
132-64-9	Dibenzofuran	ND	67	9.9	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	7.4	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	67	16	ug/kg	
84-66-2	Diethyl phthalate	ND	67	11	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	67	29	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	9.3	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	34	ug/kg	
67-72-1	Hexachloroethane	ND	170	9.3	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	12	ug/kg	
78-59-1	Isophorone	ND	67	9.0	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	19	ug/kg	
88-74-4	2-Nitroaniline	ND	170	15	ug/kg	
99-09-2	3-Nitroaniline	ND	170	13	ug/kg	
100-01-6	4-Nitroaniline	ND	170	13	ug/kg	
91-20-3	Naphthalene	ND	33	9.1	ug/kg	
98-95-3	Nitrobenzene	ND	67	9.6	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	8.1	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	20	ug/kg	
85-01-8	Phenanthrene	ND	33	15	ug/kg	
129-00-0	Pyrene	ND	33	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	10	ug/kg	

Method Blank Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83787-MB1	2P48471.D	1	05/11/15	SD	05/09/15	OP83787	E2P2069

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB94209-1, JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-9, JB94209-10, JB94209-11, JB94209-12, JB94209-18

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	71%	22-121%
4165-62-2	Phenol-d5	67%	27-119%
118-79-6	2,4,6-Tribromophenol	71%	17-158%
4165-60-0	Nitrobenzene-d5	84%	33-127%
321-60-8	2-Fluorobiphenyl	85%	41-121%
1718-51-0	Terphenyl-d14	101%	44-137%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.54	1200	ug/kg	J
	system artifact/aldol-condensation	2.88	430	ug/kg	J
	unknown	12.33	1500	ug/kg	J
	Total TIC, Semi-Volatile		1500	ug/kg	J

Blank Spike Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83797-BS1	P95332.D	1	05/09/15	KLS	05/09/15	OP83797	EP4119

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB94209-13, JB94209-14, JB94209-15, JB94209-16, JB94209-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	37.6	75	44-118
59-50-7	4-Chloro-3-methyl phenol	50	43.7	87	47-133
120-83-2	2,4-Dichlorophenol	50	42.4	85	49-129
105-67-9	2,4-Dimethylphenol	50	46.5	93	41-137
51-28-5	2,4-Dinitrophenol	100	82.2	82	38-154
534-52-1	4,6-Dinitro-o-cresol	50	43.5	87	40-143
95-48-7	2-Methylphenol	50	37.0	74	39-112
	3&4-Methylphenol	50	33.4	67	36-107
88-75-5	2-Nitrophenol	50	46.0	92	47-132
100-02-7	4-Nitrophenol	50	22.4	45	13-121
87-86-5	Pentachlorophenol	50	46.2	92	42-144
108-95-2	Phenol	50	18.7	37	10-110
58-90-2	2,3,4,6-Tetrachlorophenol	50	43.5	87	54-130
95-95-4	2,4,5-Trichlorophenol	50	43.7	87	59-129
88-06-2	2,4,6-Trichlorophenol	50	44.2	88	56-132
83-32-9	Acenaphthene	50	44.3	89	50-122
208-96-8	Acenaphthylene	50	37.9	76	42-110
98-86-2	Acetophenone	50	42.2	84	52-131
120-12-7	Anthracene	50	43.5	87	55-124
1912-24-9	Atrazine	50	49.3	99	55-171
100-52-7	Benzaldehyde	50	53.4	107	40-155
56-55-3	Benzo(a)anthracene	50	46.8	94	48-126
50-32-8	Benzo(a)pyrene	50	49.3	99	42-135
205-99-2	Benzo(b)fluoranthene	50	48.0	96	42-139
191-24-2	Benzo(g,h,i)perylene	50	49.1	98	38-140
207-08-9	Benzo(k)fluoranthene	50	42.3	85	43-132
101-55-3	4-Bromophenyl phenyl ether	50	50.1	100	54-133
85-68-7	Butyl benzyl phthalate	50	46.9	94	31-162
92-52-4	1,1'-Biphenyl	50	41.8	84	55-122
91-58-7	2-Chloronaphthalene	50	41.8	84	43-114
106-47-8	4-Chloroaniline	50	31.1	62	11-110
86-74-8	Carbazole	50	42.3	85	59-120
105-60-2	Caprolactam	50	10.4	21	10-110
218-01-9	Chrysene	50	44.2	88	49-132
111-91-1	bis(2-Chloroethoxy)methane	50	46.6	93	46-133
111-44-4	bis(2-Chloroethyl)ether	50	43.2	86	45-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83797-BS1	P95332.D	1	05/09/15	KLS	05/09/15	OP83797	EP4119

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB94209-13, JB94209-14, JB94209-15, JB94209-16, JB94209-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-60-1	bis(2-Chloroisopropyl)ether	50	40.1	80	38-129
7005-72-3	4-Chlorophenyl phenyl ether	50	45.2	90	52-128
121-14-2	2,4-Dinitrotoluene	50	50.1	100	56-141
606-20-2	2,6-Dinitrotoluene	50	48.8	98	57-140
91-94-1	3,3'-Dichlorobenzidine	100	88.1	88	21-114
123-91-1	1,4-Dioxane	50	21.8	44	10-110
53-70-3	Dibenzo(a,h)anthracene	50	50.9	102	40-141
132-64-9	Dibenzofuran	50	43.1	86	57-114
84-74-2	Di-n-butyl phthalate	50	47.1	94	47-157
117-84-0	Di-n-octyl phthalate	50	49.9	100	43-159
84-66-2	Diethyl phthalate	50	44.0	88	36-147
131-11-3	Dimethyl phthalate	50	44.4	89	16-154
117-81-7	bis(2-Ethylhexyl)phthalate	50	46.9	94	44-157
206-44-0	Fluoranthene	50	44.4	89	55-131
86-73-7	Fluorene	50	44.5	89	54-126
118-74-1	Hexachlorobenzene	50	50.0	100	48-130
87-68-3	Hexachlorobutadiene	50	41.1	82	19-120
77-47-4	Hexachlorocyclopentadiene	100	102	102	10-121
67-72-1	Hexachloroethane	50	37.2	74	22-115
193-39-5	Indeno(1,2,3-cd)pyrene	50	51.1	102	38-139
78-59-1	Isophorone	50	47.4	95	43-131
91-57-6	2-Methylnaphthalene	50	44.4	89	46-112
88-74-4	2-Nitroaniline	50	47.6	95	48-149
99-09-2	3-Nitroaniline	50	34.2	68	27-112
100-01-6	4-Nitroaniline	50	44.5	89	52-121
91-20-3	Naphthalene	50	40.4	81	36-113
98-95-3	Nitrobenzene	50	45.8	92	41-133
621-64-7	N-Nitroso-di-n-propylamine	50	47.6	95	45-136
86-30-6	N-Nitrosodiphenylamine	50	48.7	97	52-126
85-01-8	Phenanthrene	50	42.2	84	54-122
129-00-0	Pyrene	50	42.2	84	51-128
95-94-3	1,2,4,5-Tetrachlorobenzene	50	40.5	81	31-119

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83797-BS1	P95332.D	1	05/09/15	KLS	05/09/15	OP83797	EP4119

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB94209-13, JB94209-14, JB94209-15, JB94209-16, JB94209-17

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	49%	12-110%
4165-62-2	Phenol-d5	34%	10-110%
118-79-6	2,4,6-Tribromophenol	103%	42-154%
4165-60-0	Nitrobenzene-d5	94%	29-139%
321-60-8	2-Fluorobiphenyl	87%	33-129%
1718-51-0	Terphenyl-d14	100%	10-140%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83787-BS1	2P48472.D	1	05/11/15	SD	05/09/15	OP83787	E2P2069

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB94209-1, JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-9, JB94209-10, JB94209-11, JB94209-12, JB94209-18

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1670	1250	75	54-115
59-50-7	4-Chloro-3-methyl phenol	1670	1310	79	55-125
120-83-2	2,4-Dichlorophenol	1670	1300	78	55-122
105-67-9	2,4-Dimethylphenol	1670	1760	106	53-140
51-28-5	2,4-Dinitrophenol	3330	1330	40	38-145
534-52-1	4,6-Dinitro-o-cresol	1670	809	49	45-133
95-48-7	2-Methylphenol	1670	1220	73	55-116
	3&4-Methylphenol	1670	1160	70	55-114
88-75-5	2-Nitrophenol	1670	1220	73	53-122
100-02-7	4-Nitrophenol	1670	1420	85	37-171
87-86-5	Pentachlorophenol	1670	1040	62	39-141
108-95-2	Phenol	1670	1090	65	50-114
58-90-2	2,3,4,6-Tetrachlorophenol	1670	1100	66	54-127
95-95-4	2,4,5-Trichlorophenol	1670	1190	71	61-122
88-06-2	2,4,6-Trichlorophenol	1670	1210	73	59-124
83-32-9	Acenaphthene	1670	1310	79	58-123
208-96-8	Acenaphthylene	1670	1100	66	47-100
98-86-2	Acetophenone	1670	1250	75	57-122
120-12-7	Anthracene	1670	1340	80	58-123
1912-24-9	Atrazine	1670	1210	73	54-164
56-55-3	Benzo(a)anthracene	1670	1320	79	56-119
50-32-8	Benzo(a)pyrene	1670	1410	85	55-129
205-99-2	Benzo(b)fluoranthene	1670	1470	88	54-130
191-24-2	Benzo(g,h,i)perylene	1670	1230	74	49-130
207-08-9	Benzo(k)fluoranthene	1670	1290	77	53-124
101-55-3	4-Bromophenyl phenyl ether	1670	1360	82	59-130
85-68-7	Butyl benzyl phthalate	1670	1410	85	59-140
92-52-4	1,1'-Biphenyl	1670	1210	73	59-121
100-52-7	Benzaldehyde	1670	2400	144* [a]	48-139
91-58-7	2-Chloronaphthalene	1670	1220	73	54-117
106-47-8	4-Chloroaniline	1670	766	46	20-90
86-74-8	Carbazole	1670	1290	77	58-118
105-60-2	Caprolactam	1670	1270	76	44-145
218-01-9	Chrysene	1670	1240	74	58-125
111-91-1	bis(2-Chloroethoxy)methane	1670	1270	76	51-124
111-44-4	bis(2-Chloroethyl)ether	1670	1230	74	49-125

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83787-BS1	2P48472.D	1	05/11/15	SD	05/09/15	OP83787	E2P2069

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB94209-1, JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-9, JB94209-10, JB94209-11, JB94209-12, JB94209-18

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-60-1	bis(2-Chloroisopropyl)ether	1670	1100	66	48-121
7005-72-3	4-Chlorophenyl phenyl ether	1670	1390	83	57-128
121-14-2	2,4-Dinitrotoluene	1670	1200	72	57-133
606-20-2	2,6-Dinitrotoluene	1670	1220	73	57-132
91-94-1	3,3'-Dichlorobenzidine	3330	1860	56	33-112
123-91-1	1,4-Dioxane	1670	590	35	16-92
53-70-3	Dibenzo(a,h)anthracene	1670	1290	77	52-128
132-64-9	Dibenzofuran	1670	1260	76	56-113
84-74-2	Di-n-butyl phthalate	1670	1440	86	59-146
117-84-0	Di-n-octyl phthalate	1670	1640	98	56-150
84-66-2	Diethyl phthalate	1670	1320	79	56-132
131-11-3	Dimethyl phthalate	1670	1250	75	59-124
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1370	82	60-142
206-44-0	Fluoranthene	1670	1310	79	58-125
86-73-7	Fluorene	1670	1380	83	58-124
118-74-1	Hexachlorobenzene	1670	1340	80	54-126
87-68-3	Hexachlorobutadiene	1670	1460	88	42-134
77-47-4	Hexachlorocyclopentadiene	3330	2630	79	31-155
67-72-1	Hexachloroethane	1670	1290	77	51-120
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1270	76	50-129
78-59-1	Isophorone	1670	1400	84	48-120
91-57-6	2-Methylnaphthalene	1670	1580	95	50-111
88-74-4	2-Nitroaniline	1670	1420	85	50-141
99-09-2	3-Nitroaniline	1670	880	53	33-102
100-01-6	4-Nitroaniline	1670	1030	62	53-120
91-20-3	Naphthalene	1670	1290	77	48-116
98-95-3	Nitrobenzene	1670	1310	79	46-125
621-64-7	N-Nitroso-di-n-propylamine	1670	1260	76	48-127
86-30-6	N-Nitrosodiphenylamine	1670	1480	89	61-123
85-01-8	Phenanthrene	1670	1360	82	55-120
129-00-0	Pyrene	1670	1300	78	55-123
95-94-3	1,2,4,5-Tetrachlorobenzene	1670	1240	74	45-128

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83787-BS1	2P48472.D	1	05/11/15	SD	05/09/15	OP83787	E2P2069

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB94209-1, JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-9, JB94209-10, JB94209-11, JB94209-12, JB94209-18

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	77%	22-121%
4165-62-2	Phenol-d5	71%	27-119%
118-79-6	2,4,6-Tribromophenol	77%	17-158%
4165-60-0	Nitrobenzene-d5	84%	33-127%
321-60-8	2-Fluorobiphenyl	77%	41-121%
1718-51-0	Terphenyl-d14	84%	44-137%

(a) Outside of in-house control limits.

8.2.2

8

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83797-MS	P95347.D	1	05/10/15	KLS	05/09/15	OP83797	EP4119
OP83797-MSD	P95348.D	1	05/10/15	KLS	05/09/15	OP83797	EP4119
JB94209-13	P95333.D	1	05/09/15	KLS	05/09/15	OP83797	EP4119

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB94209-13, JB94209-14, JB94209-15, JB94209-16, JB94209-17

CAS No.	Compound	JB94209-13 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		100	60.0	60	100	80.4	80	29* a	39-126/24
59-50-7	4-Chloro-3-methyl phenol	ND		100	68.3	68	100	91.3	91	29* a	47-136/24
120-83-2	2,4-Dichlorophenol	ND		100	65.3	65	100	86.4	86	28* a	45-134/24
105-67-9	2,4-Dimethylphenol	ND		100	65.7	66	100	93.2	93	35* a	32-152/30
51-28-5	2,4-Dinitrophenol	ND		200	116	58	200	163	82	34* a	24-169/31
534-52-1	4,6-Dinitro-o-cresol	ND		100	55.8	56	100	83.2	83	39* a	27-151/30
95-48-7	2-Methylphenol	ND		100	59.6	60	100	81.9	82	32* a	41-122/25
	3&4-Methylphenol	ND		100	55.6	56	100	78.6	79	34* a	34-129/24
88-75-5	2-Nitrophenol	ND		100	70.0	70	100	93.0	93	28* a	46-132/25
100-02-7	4-Nitrophenol	ND		100	46.8	47	100	66.9	67	35* a	21-167/27
87-86-5	Pentachlorophenol	ND		100	69.7	70	100	101	101	37* a	36-158/29
108-95-2	Phenol	ND		100	38.7	39	100	53.1	53	31* a	24-105/25
58-90-2	2,3,4,6-Tetrachlorophenol	ND		100	68.0	68	100	90.1	90	28* a	49-137/26
95-95-4	2,4,5-Trichlorophenol	ND		100	70.3	70	100	89.1	89	24	56-133/25
88-06-2	2,4,6-Trichlorophenol	ND		100	68.1	68	100	90.5	91	28* a	52-136/23
83-32-9	Acenaphthene	ND		100	68.4	68	100	88.5	89	26	40-138/27
208-96-8	Acenaphthylene	ND		100	59.9	60	100	76.0	76	24	36-108/27
98-86-2	Acetophenone	ND		100	62.9	63	100	85.0	85	30* a	34-152/26
120-12-7	Anthracene	ND		100	66.7	67	100	88.7	89	28	47-131/28
1912-24-9	Atrazine	ND		100	74.2	74	100	98.9	99	29	42-176/33
100-52-7	Benzaldehyde	ND		100	75.9	76	100	92.7	93	20	21-163/36
56-55-3	Benzo(a)anthracene	ND		100	69.6	70	100	90.6	91	26	40-131/30
50-32-8	Benzo(a)pyrene	ND		100	74.5	75	100	95.3	95	24	37-138/32
205-99-2	Benzo(b)fluoranthene	ND		100	73.4	73	100	93.5	94	24	36-140/33
191-24-2	Benzo(g,h,i)perylene	ND		100	75.5	76	100	97.2	97	25	32-142/33
207-08-9	Benzo(k)fluoranthene	ND		100	66.8	67	100	83.9	84	23	38-132/33
101-55-3	4-Bromophenyl phenyl ether	ND		100	76.4	76	100	107	107	33* a	48-138/27
85-68-7	Butyl benzyl phthalate	ND		100	70.1	70	100	93.2	93	28	33-161/32
92-52-4	1,1'-Biphenyl	ND		100	63.2	63	100	83.8	84	28	43-138/28
91-58-7	2-Chloronaphthalene	ND		100	64.7	65	100	85.2	85	27	38-127/27
106-47-8	4-Chloroaniline	ND		100	31.2	31	100	41.8	42	29	10-110/50
86-74-8	Carbazole	ND		100	64.0	64	100	84.3	84	27	51-126/29
105-60-2	Caprolactam	ND		100	23.2	23	100	32.2	32	32	10-113/37
218-01-9	Chrysene	ND		100	66.7	67	100	86.4	86	26	42-136/30
111-91-1	bis(2-Chloroethoxy)methane	ND		100	70.8	71	100	95.4	95	30* a	39-137/29
111-44-4	bis(2-Chloroethyl)ether	ND		100	63.3	63	100	86.5	87	31* a	33-141/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83797-MS	P95347.D	1	05/10/15	KLS	05/09/15	OP83797	EP4119
OP83797-MSD	P95348.D	1	05/10/15	KLS	05/09/15	OP83797	EP4119
JB94209-13	P95333.D	1	05/09/15	KLS	05/09/15	OP83797	EP4119

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB94209-13, JB94209-14, JB94209-15, JB94209-16, JB94209-17

CAS No.	Compound	JB94209-13 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-60-1	bis(2-Chloroisopropyl)ether	ND		100	57.5	58	100	81.7	82	35* a	30-135/29
7005-72-3	4-Chlorophenyl phenyl ether	ND		100	68.7	69	100	90.1	90	27	44-140/29
121-14-2	2,4-Dinitrotoluene	ND		100	77.1	77	100	99.1	99	25	45-148/30
606-20-2	2,6-Dinitrotoluene	ND		100	74.4	74	100	99.9	100	29	48-146/30
91-94-1	3,3'-Dichlorobenzidine	ND		200	123	62	200	151	76	20	10-126/44
123-91-1	1,4-Dioxane	ND		100	39.3	39	100	55.5	56	34	10-119/35
53-70-3	Dibenzo(a,h)anthracene	ND		100	81.4	81	100	103	103	23	33-144/34
132-64-9	Dibenzofuran	ND		100	67.2	67	100	86.3	86	25	45-125/28
84-74-2	Di-n-butyl phthalate	1.4	JB	100	73.4	72	100	94.8	93	25	41-159/32
117-84-0	Di-n-octyl phthalate	ND		100	75.1	75	100	98.6	99	27	39-161/31
84-66-2	Diethyl phthalate	ND		100	68.6	69	100	88.4	88	25	27-153/32
131-11-3	Dimethyl phthalate	ND		100	69.8	70	100	88.6	89	24	12-157/38
117-81-7	bis(2-Ethylhexyl)phthalate	ND		100	69.7	70	100	92.4	92	28	39-160/34
206-44-0	Fluoranthene	ND		100	65.2	65	100	87.8	88	30	44-137/31
86-73-7	Fluorene	ND		100	68.8	69	100	88.5	89	25	43-140/28
118-74-1	Hexachlorobenzene	ND		100	77.9	78	100	106	106	31* a	39-137/28
87-68-3	Hexachlorobutadiene	ND		100	65.3	65	100	87.1	87	29	17-132/34
77-47-4	Hexachlorocyclopentadiene	ND		200	135	68	200	189	95	33	10-132/38
67-72-1	Hexachloroethane	ND		100	54.4	54	100	76.6	77	34* a	19-126/33
193-39-5	Indeno(1,2,3-cd)pyrene	ND		100	78.4	78	100	101	101	25	31-143/34
78-59-1	Isophorone	ND		100	71.6	72	100	95.7	96	29	34-139/29
91-57-6	2-Methylnaphthalene	ND		100	67.4	67	100	88.8	89	27	39-118/27
88-74-4	2-Nitroaniline	ND		100	71.7	72	100	93.2	93	26	34-158/34
99-09-2	3-Nitroaniline	ND		100	45.5	46	100	55.3	55	19	12-117/42
100-01-6	4-Nitroaniline	ND		100	61.8	62	100	81.6	82	28	33-128/34
91-20-3	Naphthalene	ND		100	62.2	62	100	82.5	83	28	23-133/30
98-95-3	Nitrobenzene	ND		100	67.8	68	100	89.9	90	28	29-146/28
621-64-7	N-Nitroso-di-n-propylamine	ND		100	70.7	71	100	95.6	96	30* a	33-147/29
86-30-6	N-Nitrosodiphenylamine	ND		100	71.5	72	100	95.9	96	29* a	42-137/28
85-01-8	Phenanthrene	ND		100	64.7	65	100	85.5	86	28	44-131/28
129-00-0	Pyrene	ND		100	66.7	67	100	87.2	87	27	43-133/30
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		100	62.6	63	100	83.4	83	28	26-137/29

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83797-MS	P95347.D	1	05/10/15	KLS	05/09/15	OP83797	EP4119
OP83797-MSD	P95348.D	1	05/10/15	KLS	05/09/15	OP83797	EP4119
JB94209-13	P95333.D	1	05/09/15	KLS	05/09/15	OP83797	EP4119

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB94209-13, JB94209-14, JB94209-15, JB94209-16, JB94209-17

CAS No.	Surrogate Recoveries	MS	MSD	JB94209-13	Limits
367-12-4	2-Fluorophenol	46%	64%	44%	12-110%
4165-62-2	Phenol-d5	36%	52%	30%	10-110%
118-79-6	2,4,6-Tribromophenol	82%	113%	102%	42-154%
4165-60-0	Nitrobenzene-d5	70%	95%	97%	29-139%
321-60-8	2-Fluorobiphenyl	66%	87%	90%	33-129%
1718-51-0	Terphenyl-d14	70%	95%	68%	10-140%

(a) Analytical precision exceeds in-house control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83787-MS	2P48492.D	1	05/12/15	SD	05/09/15	OP83787	E2P2069
OP83787-MSD	2P48493.D	1	05/12/15	SD	05/09/15	OP83787	E2P2069
JB94209-1	2P48478.D	1	05/11/15	SD	05/09/15	OP83787	E2P2069

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB94209-1, JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-9, JB94209-10, JB94209-11, JB94209-12, JB94209-18

CAS No.	Compound	JB94209-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		1880	1240	66	1860	1050	57	17	29-125/36
59-50-7	4-Chloro-3-methyl phenol	ND		1880	1350	72	1860	1140	61	17	27-147/36
120-83-2	2,4-Dichlorophenol	ND		1880	1370	73	1860	1190	64	14	26-139/36
105-67-9	2,4-Dimethylphenol	ND		1880	1170	62	1860	638	34	59* [a]	32-153/36
51-28-5	2,4-Dinitrophenol	ND		3760	198	5* [b]	3710	232	6* [b]	16	10-138/52
534-52-1	4,6-Dinitro-o-cresol	ND		1880	104	6* [b]	1860	177	10	52	10-140/52
95-48-7	2-Methylphenol	ND		1880	1150	61	1860	815	44	34	34-129/36
	3&4-Methylphenol	213		1880	1110	48	1860	870	35	24	35-129/35
88-75-5	2-Nitrophenol	ND		1880	1080	57	1860	964	52	11	21-133/40
100-02-7	4-Nitrophenol	ND		1880	1390	74	1860	1260	68	10	15-178/41
87-86-5	Pentachlorophenol	ND		1880	950	51	1860	721	39	27	10-149/42
108-95-2	Phenol	190		1880	1160	52	1860	1200	54	3	29-126/36
58-90-2	2,3,4,6-Tetrachlorophenol	ND		1880	1330	71	1860	1090	59	20	22-140/38
95-95-4	2,4,5-Trichlorophenol	ND		1880	1340	71	1860	1150	62	15	31-139/36
88-06-2	2,4,6-Trichlorophenol	ND		1880	1410	75	1860	1190	64	17	28-142/38
83-32-9	Acenaphthene	ND		1880	1430	76	1860	1210	65	17	32-140/36
208-96-8	Acenaphthylene	44.5		1880	1220	63	1860	995	51	20	23-120/36
98-86-2	Acetophenone	76.7	J	1880	1270	63	1860	1130	57	12	37-133/36
120-12-7	Anthracene	ND		1880	1240	66	1860	957	52	26	32-142/38
1912-24-9	Atrazine	ND		1880	811	43	1860	1040	56	25	31-171/39
56-55-3	Benzo(a)anthracene	ND		1880	1100	59	1860	932	50	17	30-139/42
50-32-8	Benzo(a)pyrene	ND		1880	803	43	1860	729	39	10	32-145/42
205-99-2	Benzo(b)fluoranthene	17.3	J	1880	1030	54	1860	961	51	7	30-147/43
191-24-2	Benzo(g,h,i)perylene	ND		1880	550	29	1860	657	35	18	27-148/41
207-08-9	Benzo(k)fluoranthene	ND		1880	899	48	1860	837	45	7	32-138/41
101-55-3	4-Bromophenyl phenyl ether	ND		1880	1480	79	1860	1350	73	9	42-140/36
85-68-7	Butyl benzyl phthalate	ND		1880	1390	74	1860	1430	77	3	46-150/38
92-52-4	1,1'-Biphenyl	48.2	J	1880	1330	68	1860	1180	61	12	41-133/35
100-52-7	Benzaldehyde	ND		1880	1690	90	1860	1520	82	11	33-146/37
91-58-7	2-Chloronaphthalene	148		1880	1430	68	1860	1250	59	13	40-123/34
106-47-8	4-Chloroaniline	ND		1880	178	9* [b]	1860	165	9* [b]	8	10-110/51
86-74-8	Carbazole	ND		1880	991	53	1860	911	49	8	35-135/36
105-60-2	Caprolactam	ND		1880	1080	57	1860	1020	55	6	28-150/39
218-01-9	Chrysene	19.8	J	1880	1140	60	1860	990	52	14	31-144/42
111-91-1	bis(2-Chloroethoxy)methane	ND		1880	1200	64	1860	1190	64	1	34-132/35
111-44-4	bis(2-Chloroethyl)ether	ND		1880	1180	63	1860	1040	56	13	30-134/40

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83787-MS	2P48492.D	1	05/12/15	SD	05/09/15	OP83787	E2P2069
OP83787-MSD	2P48493.D	1	05/12/15	SD	05/09/15	OP83787	E2P2069
JB94209-1	2P48478.D	1	05/11/15	SD	05/09/15	OP83787	E2P2069

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB94209-1, JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-9, JB94209-10, JB94209-11, JB94209-12, JB94209-18

CAS No.	Compound	JB94209-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-60-1	bis(2-Chloroisopropyl)ether	ND		1880	1220	65	1860	1090	59	11	30-128/37
7005-72-3	4-Chlorophenyl phenyl ether	ND		1880	1630	87	1860	1410	76	14	39-139/36
121-14-2	2,4-Dinitrotoluene	ND		1880	920	49	1860	967	52	5	33-144/38
606-20-2	2,6-Dinitrotoluene	ND		1880	1100	59	1860	1100	59	0	38-140/38
91-94-1	3,3'-Dichlorobenzidine	ND		3760	278	7* [b]	3710	170	5* [b]	48* [a]	16-129/44
123-91-1	1,4-Dioxane	ND		1880	609	32	1860	537	29	13	10-110/42
53-70-3	Dibenzo(a,h)anthracene	ND		1880	608	32* [b]	1860	700	38	14	35-141/39
132-64-9	Dibenzofuran	ND		1880	1350	72	1860	1130	61	18	33-133/35
84-74-2	Di-n-butyl phthalate	ND		1880	1460	78	1860	1370	74	6	42-153/37
117-84-0	Di-n-octyl phthalate	ND		1880	1580	84	1860	1530	82	3	42-158/36
84-66-2	Diethyl phthalate	ND		1880	1470	78	1860	1330	72	10	45-136/35
131-11-3	Dimethyl phthalate	ND		1880	1400	74	1860	1270	68	10	46-131/34
117-81-7	bis(2-Ethylhexyl)phthalate	ND		1880	1500	80	1860	1400	75	7	42-161/38
206-44-0	Fluoranthene	48.0		1880	1380	71	1860	1080	56	24	27-146/42
86-73-7	Fluorene	ND		1880	1530	81	1860	1330	72	14	37-138/39
118-74-1	Hexachlorobenzene	ND		1880	1400	74	1860	1280	69	9	37-134/36
87-68-3	Hexachlorobutadiene	ND		1880	1650	88	1860	1440	78	14	28-136/36
77-47-4	Hexachlorocyclopentadiene	ND		3760	ND	0* [b]	3710	ND	0* [b]	nc	10-138/50
67-72-1	Hexachloroethane	ND		1880	908	48	1860	958	52	5	24-121/39
193-39-5	Indeno(1,2,3-cd)pyrene	ND		1880	571	30	1860	677	36	17	28-151/41
78-59-1	Isophorone	ND		1880	1480	79	1860	1260	68	16	30-130/35
91-57-6	2-Methylnaphthalene	35.2	J	1880	1520	79	1860	1290	68	16	30-123/36
88-74-4	2-Nitroaniline	ND		1880	1310	70	1860	1300	70	1	33-153/37
99-09-2	3-Nitroaniline	ND		1880	446	24	1860	603	33	30	20-118/43
100-01-6	4-Nitroaniline	ND		1880	398	21* [b]	1860	514	28	25	25-128/40
91-20-3	Naphthalene	387		1880	1670	68	1860	1280	48	26	29-125/38
98-95-3	Nitrobenzene	ND		1880	1380	73	1860	1260	68	9	29-133/36
621-64-7	N-Nitroso-di-n-propylamine	ND		1880	990	53	1860	981	53	1	30-137/38
86-30-6	N-Nitrosodiphenylamine	ND		1880	1180	63	1860	1070	58	10	39-145/37
85-01-8	Phenanthrene	89.6		1880	1570	79	1860	1180	59	28	28-142/42
129-00-0	Pyrene	41.1		1880	1510	78	1860	1220	64	21	27-150/42
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		1880	1460	78	1860	1250	67	15	35-130/34

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83787-MS	2P48492.D	1	05/12/15	SD	05/09/15	OP83787	E2P2069
OP83787-MSD	2P48493.D	1	05/12/15	SD	05/09/15	OP83787	E2P2069
JB94209-1	2P48478.D	1	05/11/15	SD	05/09/15	OP83787	E2P2069

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB94209-1, JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-9, JB94209-10, JB94209-11, JB94209-12, JB94209-18

CAS No.	Surrogate Recoveries	MS	MSD	JB94209-1	Limits
367-12-4	2-Fluorophenol	68%	57%	36%	22-121%
4165-62-2	Phenol-d5	60%	52%	31%	27-119%
118-79-6	2,4,6-Tribromophenol	68%	61%	42%	17-158%
4165-60-0	Nitrobenzene-d5	73%	67%	57%	33-127%
321-60-8	2-Fluorobiphenyl	75%	65%	68%	41-121%
1718-51-0	Terphenyl-d14	78%	69%	51%	44-137%

(a) Analytical precision exceeds in-house control limits.
(b) Outside control limits due to matrix interference.

8.3.2

8

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: E2P2044-DFTPP
Lab File ID: 2P47951.D
Instrument ID: GCMS2P
Injection Date: 04/29/15
Injection Time: 13:47

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	15707	33.9		Pass
68	Less than 2.0% of mass 69	177	0.38	(1.02) [a]	Pass
69	Mass 69 relative abundance	17352	37.4		Pass
70	Less than 2.0% of mass 69	86	0.19	(0.50) [a]	Pass
127	40.0 - 60.0% of mass 198	20983	45.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	46379	100.0		Pass
199	5.0 - 9.0% of mass 198	3048	6.57		Pass
275	10.0 - 30.0% of mass 198	10735	23.1		Pass
365	1.0 - 100.0% of mass 198	1371	2.96		Pass
441	Present, but less than mass 443	6063	13.1	(98.2) [b]	Pass
442	40.0 - 100.0% of mass 198	34772	75.0		Pass
443	17.0 - 23.0% of mass 442	6176	13.3	(17.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P2044-IC2044	2P47952.D	04/29/15	13:59	00:12	Initial cal 100
E2P2044-IC2044	2P47953.D	04/29/15	14:37	00:50	Initial cal 1
E2P2044-ICC2044	2P47954.D	04/29/15	15:12	01:25	Initial cal 50
E2P2044-IC2044	2P47955.D	04/29/15	15:33	01:46	Initial cal 25
E2P2044-IC2044	2P47956.D	04/29/15	15:55	02:08	Initial cal 2
E2P2044-IC2044	2P47957.D	04/29/15	16:17	02:30	Initial cal 80
E2P2044-IC2044	2P47958.D	04/29/15	16:39	02:52	Initial cal 5
E2P2044-IC2044	2P47959.D	04/29/15	17:01	03:14	Initial cal 10

Instrument Performance Check (DFTPP)

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: E2P2045-DFTPP
Lab File ID: 2P47960.D
Instrument ID: GCMS2P
Injection Date: 04/29/15
Injection Time: 17:19

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	10979	33.5		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	12980	39.6		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	14240	43.4		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	32786	100.0		Pass
199	5.0 - 9.0% of mass 198	2096	6.39		Pass
275	10.0 - 30.0% of mass 198	8056	24.6		Pass
365	1.0 - 100.0% of mass 198	1010	3.08		Pass
441	Present, but less than mass 443	4284	13.1	(89.7) [b]	Pass
442	40.0 - 100.0% of mass 198	23897	72.9		Pass
443	17.0 - 23.0% of mass 442	4776	14.6	(20.0) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P2045-IC2045	2P47961.D	04/29/15	17:31	00:12	Initial cal 1
E2P2045-IC2045	2P47962.D	04/29/15	17:53	00:34	Initial cal 2
E2P2045-IC2045	2P47963.D	04/29/15	18:15	00:56	Initial cal 5
E2P2045-IC2045	2P47964.D	04/29/15	18:36	01:17	Initial cal 10
E2P2045-IC2045	2P47965.D	04/29/15	18:58	01:39	Initial cal 25
E2P2045-ICC2045	2P47966.D	04/29/15	19:20	02:01	Initial cal 50
E2P2045-IC2045	2P47967.D	04/29/15	19:42	02:23	Initial cal 80
E2P2045-IC2045	2P47968.D	04/29/15	20:04	02:45	Initial cal 100
E2P2045-ICV2044	2P47969.D	04/29/15	20:26	03:07	Initial cal verification 50
E2P2045-ICV2044	2P47970.D	04/29/15	20:47	03:28	Initial cal verification 50
E2P2045-ICV2044	2P47971.D	04/29/15	21:09	03:50	Initial cal verification 50
E2P2045-ICV2045	2P47971A.D	04/29/15	21:09	03:50	Initial cal verification 50
E2P2045-ICV2044	2P47972.D	04/29/15	21:31	04:12	Initial cal verification 50
E2P2045-ICV2045	2P47972A.D	04/29/15	21:31	04:12	Initial cal verification 50
E2P2045-ICV2044	2P47973.D	04/29/15	21:53	04:34	Initial cal verification 50
E2P2045-ICV2045	2P47975.D	04/29/15	22:36	05:17	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: E2P2047-DFTPP
Lab File ID: 2P47986.D
Instrument ID: GCMS2P
Injection Date: 04/30/15
Injection Time: 08:25

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	17248	34.5		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	19207	38.4		Pass
70	Less than 2.0% of mass 69	92	0.18	(0.48) [a]	Pass
127	40.0 - 60.0% of mass 198	22335	44.7		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	50002	100.0		Pass
199	5.0 - 9.0% of mass 198	3656	7.31		Pass
275	10.0 - 30.0% of mass 198	11737	23.5		Pass
365	1.0 - 100.0% of mass 198	1328	2.66		Pass
441	Present, but less than mass 443	6500	13.0	(93.0) [b]	Pass
442	40.0 - 100.0% of mass 198	37205	74.4		Pass
443	17.0 - 23.0% of mass 442	6990	14.0	(18.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P2047-ICV2045	2P47989A.D	04/30/15	09:41	01:16	Initial cal verification 50
E2P2047-ICV2044	2P47989.D	04/30/15	09:41	01:16	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: E2P2069-DFTPP
Lab File ID: 2P48467.D
Instrument ID: GCMS2P
Injection Date: 05/11/15
Injection Time: 16:58

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	25028	38.5		Pass
68	Less than 2.0% of mass 69	115	0.18	(0.44) [a]	Pass
69	Mass 69 relative abundance	26132	40.2		Pass
70	Less than 2.0% of mass 69	163	0.25	(0.62) [a]	Pass
127	40.0 - 60.0% of mass 198	31097	47.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	65070	100.0		Pass
199	5.0 - 9.0% of mass 198	4337	6.67		Pass
275	10.0 - 30.0% of mass 198	14625	22.5		Pass
365	1.0 - 100.0% of mass 198	1541	2.37		Pass
441	Present, but less than mass 443	7304	11.2	(93.2) [b]	Pass
442	40.0 - 100.0% of mass 198	40251	61.9		Pass
443	17.0 - 23.0% of mass 442	7840	12.0	(19.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P2069-CC2044	2P48468.D	05/11/15	17:08	00:10	Continuing cal 50
E2P2069-CC2045	2P48469.D	05/11/15	17:38	00:40	Continuing cal 50
OP83787-MB1	2P48471.D	05/11/15	18:22	01:24	Method Blank
OP83787-BS1	2P48472.D	05/11/15	18:43	01:45	Blank Spike
JB94209-2	2P48473.D	05/11/15	19:41	02:43	SB1-2
JB94209-6	2P48474.D	05/11/15	20:02	03:04	SB3-2
JB94209-8	2P48475.D	05/11/15	20:23	03:25	SB4-2
JB94209-12	2P48476.D	05/11/15	20:44	03:46	SB6-2
JB94209-18	2P48477.D	05/11/15	21:05	04:07	SB5-2 DUP
JB94209-1	2P48478.D	05/11/15	21:26	04:28	SB1-1
JB94209-4	2P48479.D	05/11/15	21:47	04:49	SB2-2
JB94209-3	2P48480.D	05/11/15	22:08	05:10	SB2-1
JB94209-3	2P48481.D	05/11/15	22:29	05:31	SB2-1
JB94209-5	2P48482.D	05/11/15	22:50	05:52	SB3-1
JB94209-5	2P48483.D	05/11/15	23:11	06:13	SB3-1
JB94209-7	2P48484.D	05/11/15	23:32	06:34	SB4-1
JB94209-9	2P48485.D	05/11/15	23:53	06:55	SB5-1
JB94209-10	2P48486.D	05/12/15	00:14	07:16	SB5-2
JB94209-11	2P48487.D	05/12/15	00:35	07:37	SB6-1

Instrument Performance Check (DFTPP)

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: E2P2069-DFTPP
Lab File ID: 2P48467.D
Instrument ID: GCMS2P
Injection Date: 05/11/15
Injection Time: 16:58

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JB94209-11	2P48489.D	05/12/15	01:17	08:19	SB6-1
ZZZZZZ	2P48490.D	05/12/15	01:38	08:40	(unrelated sample)
ZZZZZZ	2P48491.D	05/12/15	01:59	09:01	(unrelated sample)
OP83787-MS	2P48492.D	05/12/15	02:20	09:22	Matrix Spike
OP83787-MSD	2P48493.D	05/12/15	02:41	09:43	Matrix Spike Duplicate
ZZZZZZ	2P48494.D	05/12/15	03:02	10:04	(unrelated sample)
ZZZZZZ	2P48495.D	05/12/15	03:23	10:25	(unrelated sample)
ZZZZZZ	2P48496.D	05/12/15	03:44	10:46	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: EP4082-DFTPP
Lab File ID: P94576.D
Instrument ID: GCMSP
Injection Date: 04/16/15
Injection Time: 15:33

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	10979	42.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	11167	43.0		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	13282	51.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	25996	100.0		Pass
199	5.0 - 9.0% of mass 198	1924	7.40		Pass
275	10.0 - 30.0% of mass 198	4733	18.2		Pass
365	1.0 - 100.0% of mass 198	371	1.43		Pass
441	Present, but less than mass 443	2765	10.6	(85.9) [b]	Pass
442	40.0 - 100.0% of mass 198	17445	67.1		Pass
443	17.0 - 23.0% of mass 442	3220	12.4	(18.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP4082-IC4082	P94577.D	04/16/15	15:45	00:12	Initial cal 2
EP4082-IC4082	P94578.D	04/16/15	16:14	00:41	Initial cal 1
EP4082-IC4082	P94579.D	04/16/15	16:44	01:11	Initial cal 100
EP4082-IC4082	P94580.D	04/16/15	17:13	01:40	Initial cal 50
EP4082-ICC4082	P94581.D	04/16/15	17:43	02:10	Initial cal 25
EP4082-IC4082	P94582.D	04/16/15	18:12	02:39	Initial cal 80
EP4082-IC4082	P94583.D	04/16/15	18:41	03:08	Initial cal 10
EP4082-IC4082	P94584.D	04/16/15	19:11	03:38	Initial cal 5

Instrument Performance Check (DFTPP)

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: EP4084-DFTPP
Lab File ID: P94593.D
Instrument ID: GCMSP
Injection Date: 04/16/15
Injection Time: 23:08

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	10660	45.7		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	10807	46.3		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	11629	49.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	23348	100.0		Pass
199	5.0 - 9.0% of mass 198	1523	6.52		Pass
275	10.0 - 30.0% of mass 198	4379	18.8		Pass
365	1.0 - 100.0% of mass 198	506	2.17		Pass
441	Present, but less than mass 443	2405	10.3	(75.5) [b]	Pass
442	40.0 - 100.0% of mass 198	15440	66.1		Pass
443	17.0 - 23.0% of mass 442	3186	13.6	(20.6) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP4084-IC4084	P94594.D	04/16/15	23:39	00:31	Initial cal 100
EP4084-IC4084	P94595.D	04/17/15	00:08	01:00	Initial cal 80
EP4084-ICC4084	P94596.D	04/17/15	00:37	01:29	Initial cal 50
EP4084-IC4084	P94597.D	04/17/15	01:06	01:58	Initial cal 25
EP4084-IC4084	P94598.D	04/17/15	01:35	02:27	Initial cal 10
EP4084-IC4084	P94599.D	04/17/15	02:04	02:56	Initial cal 5
EP4084-IC4084	P94600.D	04/17/15	02:34	03:26	Initial cal 2
EP4084-IC4084	P94601.D	04/17/15	03:03	03:55	Initial cal 1

Instrument Performance Check (DFTPP)

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: EP4085-DFTPP
Lab File ID: P94602.D
Instrument ID: GCMSP
Injection Date: 04/17/15
Injection Time: 03:28

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	10421	42.6		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	11728	47.9		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	12483	51.0		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	24459	100.0		Pass
199	5.0 - 9.0% of mass 198	1843	7.54		Pass
275	10.0 - 30.0% of mass 198	4763	19.5		Pass
365	1.0 - 100.0% of mass 198	565	2.31		Pass
441	Present, but less than mass 443	2670	10.9	(85.0) [b]	Pass
442	40.0 - 100.0% of mass 198	16588	67.8		Pass
443	17.0 - 23.0% of mass 442	3143	12.9	(18.9) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP4085-IC4085	P94603.D	04/17/15	03:40	00:12	Initial cal 100
EP4085-IC4085	P94604.D	04/17/15	04:10	00:42	Initial cal 80
EP4085-ICC4085	P94605.D	04/17/15	04:39	01:11	Initial cal 50
EP4085-IC4085	P94606.D	04/17/15	05:08	01:40	Initial cal 25
EP4085-IC4085	P94607.D	04/17/15	05:37	02:09	Initial cal 10
EP4085-IC4085	P94608.D	04/17/15	06:07	02:39	Initial cal 5
EP4085-IC4085	P94609.D	04/17/15	06:36	03:08	Initial cal 2
EP4085-ICV4082	P94610.D	04/17/15	07:05	03:37	Initial cal verification 50
EP4085-ICV4082	P94611.D	04/17/15	07:34	04:06	Initial cal verification 50
EP4085-ICV4084	P94611A.D	04/17/15	07:34	04:06	Initial cal verification 50
EP4085-ICV4084	P94612A.D	04/17/15	08:04	04:36	Initial cal verification 50
EP4085-ICV4082	P94612.D	04/17/15	08:04	04:36	Initial cal verification 50
EP4085-ICV4082	P94613.D	04/17/15	08:33	05:05	Initial cal verification 50
EP4085-ICV4082	P94614.D	04/17/15	09:02	05:34	Initial cal verification 50
EP4085-ICV4082	P94615.D	04/17/15	09:31	06:03	Initial cal verification 50
EP4085-ICV4084	P94615A.D	04/17/15	09:31	06:03	Initial cal verification 50
EP4085-ICV4084	P94616.D	04/17/15	10:01	06:33	Initial cal verification 50
EP4085-ICV4085	P94617.D	04/17/15	10:30	07:02	Initial cal verification 50
EP4085-ICV4085	P94618.D	04/17/15	11:00	07:32	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: EP4085-DFTPP
Lab File ID: P94602.D
Instrument ID: GCMSP
Injection Date: 04/17/15
Injection Time: 03:28

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP4085-ICV4083	P94619.D	04/17/15	11:29	08:01	Initial cal verification 50
EP4085-ICV4083	P94620.D	04/17/15	11:59	08:31	Initial cal verification 50
EP4085-ICV4083	P94621.D	04/17/15	12:28	09:00	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: EP4119-DFTPP
Lab File ID: P95327.D
Instrument ID: GCMSP
Injection Date: 05/09/15
Injection Time: 15:30

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	24880	30.6		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	34516	42.4		Pass
70	Less than 2.0% of mass 69	148	0.18	(0.43) [a]	Pass
127	40.0 - 60.0% of mass 198	37694	46.3		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	81357	100.0		Pass
199	5.0 - 9.0% of mass 198	5342	6.57		Pass
275	10.0 - 30.0% of mass 198	20106	24.7		Pass
365	1.0 - 100.0% of mass 198	2448	3.01		Pass
441	Present, but less than mass 443	9856	12.1	(79.0) [b]	Pass
442	40.0 - 100.0% of mass 198	61800	76.0		Pass
443	17.0 - 23.0% of mass 442	12475	15.3	(20.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP4119-CC4082	P95328.D	05/09/15	15:44	00:14	Continuing cal 50
EP4119-CC4084	P95329.D	05/09/15	16:12	00:42	Continuing cal 50
OP83797-MB1	P95331.D	05/09/15	17:09	01:39	Method Blank
OP83797-BS1	P95332.D	05/09/15	17:38	02:08	Blank Spike
JB94209-13	P95333.D	05/09/15	18:07	02:37	TW-1
JB94209-14	P95334.D	05/09/15	18:35	03:05	TW-2
JB94209-15	P95335.D	05/09/15	19:04	03:34	TW-3
JB94209-16	P95336.D	05/09/15	19:32	04:02	TW2-DUP
JB94209-17	P95337.D	05/09/15	20:01	04:31	FB
ZZZZZZ	P95338.D	05/09/15	20:29	04:59	(unrelated sample)
ZZZZZZ	P95339.D	05/09/15	20:58	05:28	(unrelated sample)
ZZZZZZ	P95340.D	05/09/15	21:26	05:56	(unrelated sample)
ZZZZZZ	P95341.D	05/09/15	21:55	06:25	(unrelated sample)
ZZZZZZ	P95342.D	05/09/15	22:23	06:53	(unrelated sample)
ZZZZZZ	P95343.D	05/09/15	22:52	07:22	(unrelated sample)
ZZZZZZ	P95344.D	05/09/15	23:20	07:50	(unrelated sample)
ZZZZZZ	P95345.D	05/09/15	23:48	08:18	(unrelated sample)
ZZZZZZ	P95346.D	05/10/15	00:17	08:47	(unrelated sample)
OP83797-MS	P95347.D	05/10/15	00:45	09:15	Matrix Spike

Instrument Performance Check (DFTPP)

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: EP4119-DFTPP
Lab File ID: P95327.D
Instrument ID: GCMSP
Injection Date: 05/09/15
Injection Time: 15:30

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP83797-MSD	P95348.D	05/10/15	01:14	09:44	Matrix Spike Duplicate

Semivolatile Internal Standard Area Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	E2P2069-CC2044	**Injection Date:**	05/11/15
Lab File ID:	2P48468.D	**Injection Time:**	17:08
Instrument ID:	GCMS2P	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	140085	4.32	469185	5.37	301897	6.81	498603	8.05	540338	11.21	400728	13.18
Upper Limit [a]	280170	4.82	938370	5.87	603794	7.31	997206	8.55	1080676	11.71	801456	13.68
Lower Limit [b]	70043	3.82	234593	4.87	150949	6.31	249302	7.55	270169	10.71	200364	12.68

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP83787-MB1	157644	4.32	531554	5.37	321699	6.81	529683	8.05	476013	11.20	407726	13.18
OP83787-BS1	153046	4.32	496026	5.37	315146	6.81	487593	8.05	543262	11.21	409288	13.19
JB94209-2	155795	4.31	507532	5.37	312236	6.81	504484	8.05	452039	11.20	358029	13.19
JB94209-6	171932	4.32	589263	5.37	365671	6.80	593620	8.05	558880	11.20	471209	13.19
JB94209-8	215138	4.32	720080	5.37	445556	6.81	719958	8.05	688679	11.20	565038	13.19
JB94209-12	150231	4.32	504096	5.37	306650	6.81	508401	8.05	474329	11.20	383861	13.18
JB94209-18	146772	4.32	483871	5.37	301163	6.80	491388	8.05	457678	11.20	389898	13.18
JB94209-1	130594	4.32	454368	5.37	276012	6.80	435546	8.05	388814	11.20	326321	13.18
JB94209-4	140279	4.32	469010	5.37	292247	6.80	462550	8.05	434459	11.20	351170	13.18
JB94209-3	129603	4.32	424157	5.37	253308	6.81	375589	8.05	482141	11.26	403825	13.24
JB94209-3	143910	4.32	488891	5.37	309294	6.81	484821	8.05	419379	11.22	375267	13.20
JB94209-5	167367	4.32	540339	5.37	322205	6.81	487456	8.06	536539	11.25	420221	13.24
JB94209-5	135893	4.32	466836	5.37	298611	6.81	477406	8.06	408088	11.22	352057	13.21
JB94209-7	156288	4.32	514604	5.37	303719	6.81	486572	8.06	422383	11.22	357432	13.21
JB94209-9 [c]	155825	4.32	528923	5.38	331055	6.82	511046	8.06	456315	11.23	367544	13.22
JB94209-10	169316	4.32	553290	5.38	333096	6.82	516245	8.06	426055	11.22	366199	13.22
JB94209-11	133117	4.32	440469	5.38	254642	6.82	454005	8.09	517270	11.31	362827	13.30
JB94209-11	151410	4.32	510504	5.38	327184	6.82	531722	8.06	458430	11.23	380868	13.22
ZZZZZZ	163400	4.32	541872	5.38	328471	6.82	516776	8.06	428637	11.23	358980	13.22
ZZZZZZ	130959	4.32	428047	5.38	261552	6.82	420830	8.06	344703	11.23	287161	13.22
OP83787-MS	155907	4.33	496675	5.38	299248	6.82	475512	8.06	447512	11.24	367248	13.23
OP83787-MSD	164757	4.32	517894	5.38	314145	6.82	488125	8.06	459191	11.23	364500	13.22
ZZZZZZ	183278	4.32	621163	5.38	385644	6.82	592495	8.06	606040	11.24	540490	13.24
ZZZZZZ	162076	4.32	560088	5.38	348737	6.82	535555	8.07	549063	11.25	518153	13.26
ZZZZZZ	197917	4.33	647602	5.38	402803	6.82	628536	8.07	632091	11.25	689295	13.27

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	E2P2069-CC2044	**Injection Date:**	05/11/15
Lab File ID:	2P48468.D	**Injection Time:**	17:08
Instrument ID:	GCMS2P	**Method:**	SW846 8270D

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

(c) Elevated detection limit due to high final volume of viscous extract.

Semivolatile Internal Standard Area Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std: EP4119-CC4082 **Injection Date:** 05/09/15
Lab File ID: P95328.D **Injection Time:** 15:44
Instrument ID: GCMSP **Method:** SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	100312	4.11	371374	5.84	238250	8.54	383422	10.89	417889	15.53	381471	18.07
Upper Limit [a]	200624	4.61	742748	6.34	476500	9.04	766844	11.39	835778	16.03	762942	18.57
Lower Limit [b]	50156	3.61	185687	5.34	119125	8.04	191711	10.39	208945	15.03	190736	17.57

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP83797-MB1	110667	4.11	411312	5.84	246113	8.54	411756	10.89	513054	15.52	446154	18.07
OP83797-BS1	97628	4.11	356918	5.84	215994	8.54	341627	10.89	347095	15.53	327391	18.07
JB94209-13	104903	4.11	386538	5.84	232670	8.54	383875	10.88	374400	15.52	327228	18.06
JB94209-14	108206	4.11	393893	5.84	233026	8.54	375930	10.88	380132	15.52	335435	18.06
JB94209-15	99834	4.11	359768	5.84	214935	8.54	348832	10.88	345106	15.52	304912	18.06
JB94209-16	106134	4.11	390604	5.84	232551	8.54	384180	10.88	383157	15.52	338667	18.06
JB94209-17	92649	4.11	348059	5.84	205554	8.54	341606	10.88	341958	15.52	304689	18.06
ZZZZZZ	97714	4.11	358097	5.84	209156	8.54	333667	10.88	339942	15.52	306666	18.06
ZZZZZZ	107954	4.11	386591	5.84	221423	8.54	357722	10.88	354903	15.52	328718	18.07
ZZZZZZ	97399	4.11	361776	5.84	215214	8.54	358718	10.88	355919	15.52	314789	18.06
ZZZZZZ	95748	4.11	355211	5.84	208944	8.54	342050	10.88	340704	15.52	297219	18.06
ZZZZZZ	103062	4.11	377524	5.84	226134	8.54	357257	10.88	355871	15.52	317940	18.06
ZZZZZZ	96100	4.11	348744	5.84	198817	8.54	323976	10.88	334407	15.52	304449	18.06
ZZZZZZ	84850	4.11	298347	5.84	173937	8.55	293020	10.90	337294	15.52	307295	18.06
ZZZZZZ	97983	4.11	328905	5.84	192561	8.55	311675	10.90	340331	15.53	319690	18.07
ZZZZZZ	99267	4.11	332372	5.84	192031	8.55	316069	10.89	341014	15.53	318883	18.07
OP83797-MS	92195	4.11	332558	5.84	200835	8.54	312774	10.89	305122	15.52	278036	18.07
OP83797-MSD	109745	4.11	402675	5.84	245620	8.54	366076	10.89	360537	15.53	332313	18.07

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JB94209-13	P95333.D	44	30	102	97	90	68
JB94209-14	P95334.D	41	29	101	95	89	67
JB94209-15	P95335.D	43	30	107	97	91	68
JB94209-16	P95336.D	47	35	104	94	88	67
JB94209-17	P95337.D	46	31	105	97	92	90
OP83797-BS1	P95332.D	49	34	103	94	87	100
OP83797-MB1	P95331.D	46	32	101	96	92	75
OP83797-MS	P95347.D	46	36	82	70	66	70
OP83797-MSD	P95348.D	64	52	113	95	87	95

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	12-110%
S2 = Phenol-d5	10-110%
S3 = 2,4,6-Tribromophenol	42-154%
S4 = Nitrobenzene-d5	29-139%
S5 = 2-Fluorobiphenyl	33-129%
S6 = Terphenyl-d14	10-140%

Semivolatile Surrogate Recovery Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Method: SW846 8270D **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JB94209-1	2P48478.D	36	31	42	57	68	51
JB94209-2	2P48473.D	61	58	59	75	72	96
JB94209-3	2P48481.D	45	47	59	64	61	74
JB94209-3	2P48480.D	56	52	67	67	65	62
JB94209-4	2P48479.D	60	60	60	79	76	93
JB94209-5	2P48483.D	66	61	71	77	72	88
JB94209-5	2P48482.D	57	54	67	67	67	62
JB94209-6	2P48474.D	63	59	69	73	70	84
JB94209-7	2P48484.D	50	47	53	60	60	66
JB94209-8	2P48475.D	63	60	70	76	77	91
JB94209-9	2P48485.D	51	48	59	62	61	69
JB94209-10	2P48486.D	60	56	70	70	72	83
JB94209-11	2P48489.D	45	48	67	60	65	85
JB94209-11	2P48487.D	64	60	66	73	77	74
JB94209-12	2P48476.D	64	58	71	76	75	85
JB94209-18	2P48477.D	64	61	71	79	77	93
OP83787-BS1	2P48472.D	77	71	77	84	77	84
OP83787-MB1	2P48471.D	71	67	71	84	85	101
OP83787-MS	2P48492.D	68	60	68	73	75	78
OP83787-MSD	2P48493.D	57	52	61	67	65	69

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	22-121%
S2 = Phenol-d5	27-119%
S3 = 2,4,6-Tribromophenol	17-158%
S4 = Nitrobenzene-d5	33-127%
S5 = 2-Fluorobiphenyl	41-121%
S6 = Terphenyl-d14	44-137%

Initial Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: E2P2044-ICC2044
Lab FileID: 2P47954.D

Response Factor Report MS2P

Method : C:\MSDCHEM\1\METHODS\M2P2044.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 30 11:02:39 2015
Response via : Initial Calibration

Calibration Files
2 =2p47956.D 5 =2p47958.D 25 =2p47955.D 80 =2p47957.D
100 =2p47952.D 50 =2p47954.D 1 =2p47953.D 10 =2p47959.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------									
2) 1,4-Dioxane	0.416	0.542	0.526	0.511	0.542	0.502	0.622	0.499	0.520	11.02
3) Pyridine	0.988	1.256	1.145	1.315	1.376	1.248	1.298	1.140	1.221	10.13
4) N-Nitrosodim	0.567	0.678	0.640	0.707	0.756	0.694	0.760	0.623	0.678	9.76
5) 2-Fluorophen	0.883	1.186	1.156	1.272	1.361	1.223	1.158	1.170	1.176	11.69
6) Indene	1.882	2.203	1.951	1.882	1.909	1.875	2.298	1.970	1.996	8.16
7) Cumene	2.768	3.214	2.884	3.058	3.138	2.950	3.414	2.961	3.048	6.70
8) Phenol-d5	1.237	1.581	1.444	1.524	1.576	1.486	1.538	1.452	1.480	7.48
9) Phenol	1.274	1.695	1.484	1.569	1.606	1.539	1.772	1.520	1.557	9.56
10) Aniline	1.363	1.592	1.346	1.183	1.218	1.272	1.777	1.444	1.399	14.34
11) bis(2-Chloro	0.957	1.116	0.984	1.015	1.004	1.008	1.243	1.006	1.042	8.97
12) 2-Chlorophen	1.169	1.422	1.306	1.327	1.317	1.308	1.545	1.343	1.342	8.02
13) Decane	1.357	1.480	1.320	1.330	1.303	1.343	1.635	1.382	1.394	8.02
14) 1,3-Dichloro	1.410	1.692	1.471	1.466	1.460	1.452	1.778	1.535	1.533	8.57
15) 1,4-Dichloro	1.536	1.666	1.491	1.469	1.471	1.463	1.809	1.525	1.554	7.90
16) Benzyl alcoh	0.584	0.697	0.686	0.702	0.705	0.683	0.723	0.673	0.682	6.24
17) 1,2-Dichloro	1.412	1.559	1.397	1.369	1.359	1.366	1.689	1.459	1.451	8.04
18) Acetophenone	1.433	1.829	1.561	1.510	1.546	1.510	1.808	1.591	1.599	8.97
19) 2-Methylphen	0.856	1.131	1.023	0.978	1.000	0.993	1.216	1.040	1.029	10.38
20) 2,2'-oxybis(	0.321	0.345	0.320	0.308	0.312	0.308	0.422	0.325	0.333	11.46
21) 3&4-Methylph	0.931	1.198	1.116	1.097	1.110	1.076	1.306	1.109	1.118	9.53
22) n-Nitroso-di	0.709	0.812	0.697	0.696	0.707	0.693	0.841	0.707	0.733	8.01
23) Hexachloroet	0.520	0.633	0.556	0.549	0.552	0.545	0.690	0.573	0.577	9.72
24) I Naphthalene-d8	----------ISTD----------									
25) Nitrobenzene	0.327	0.388	0.351	0.349	0.347	0.355	0.425	0.359	0.362	8.32
26) Nitrobenzene	0.308	0.367	0.327	0.322	0.317	0.322	0.416	0.339	0.340	10.52
27) Quinoline	0.661	0.740	0.689	0.700	0.720	0.674	0.817	0.673	0.709	7.16
28) Isophorone	0.532	0.612	0.547	0.521	0.526	0.541	0.666	0.562	0.564	8.97
29) 2-Nitropheno	0.179	0.217	0.203	0.211	0.214	0.207	0.228	0.203	0.208	6.96
30) 2,4-Dimethyl	0.219	0.264	0.289	0.325	0.332	0.311	0.257	0.270	0.283	13.56
31) Benzoic acid		0.182	0.227	0.259	0.259	0.245		0.198	0.228	14.07
32) bis(2-Chloro	0.320	0.377	0.335	0.342	0.334	0.329	0.435	0.343	0.352	10.68
33) 2,4-Dichloro	0.305	0.355	0.327	0.336	0.335	0.323	0.379	0.324	0.335	6.74
34) 2,6-Dichloro	0.323	0.345	0.321	0.318	0.319	0.315	0.383	0.320	0.330	7.02
35) 1,3,5-Trichl	0.369	0.448	0.406	0.403	0.402	0.393	0.464	0.414	0.412	7.34
36) 1,2,4-Trichl	0.354	0.407	0.368	0.363	0.362	0.345	0.425	0.374	0.375	7.32
37) 1,2,3-Trichl	0.357	0.407	0.367	0.366	0.361	0.353	0.482	0.371	0.383	11.25
38) Naphthalene	0.966	1.130	1.015	1.008	1.004	0.996	1.233	1.049	1.050	8.45
39) 4-Chloroanil	0.410	0.460	0.401	0.376	0.371	0.380	0.497	0.412	0.413	10.64
40) 2,3-Dichloro	0.352	0.448	0.402	0.408	0.413	0.395	0.496	0.397	0.414	10.22
41) Caprolactam	0.087	0.108	0.098	0.082	0.083	0.102	0.108	0.101	0.096	11.07
42) Hexachlorobu	0.204	0.230	0.206	0.206	0.204	0.204	0.258	0.204	0.214	9.25
43) 4-Chloro-3-m	0.262	0.318	0.291	0.312	0.314	0.303	0.349	0.300	0.306	8.09
44) 2-Methylnaph	0.551	0.672	0.609	0.618	0.607	0.589	0.731	0.603	0.622	8.86
45) 1-Methylnaph	0.645	0.734	0.662	0.669	0.661	0.654	0.806	0.662	0.686	8.06

Initial Calibration Summary

Job Number: JB94209 **Sample:** E2P2044-ICC2044
Account: PTCNJB PT Consultants **Lab FileID:** 2P47954.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

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46) Dimethylnaph 0.592 0.702 0.637 0.641 0.633 0.622 0.783 0.640 0.656   9.06

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy       0.156 0.252 0.292 0.293 0.272       0.202 0.245  22.45
         ----- Quadratic regression -----                 Coefficient =  0.9997
              Response Ratio = -0.03601 + 0.27664 *A + 0.00514 *A^2

49) 2,4,6-Trichl 0.323 0.414 0.386 0.382 0.375 0.386 0.449 0.386 0.388   9.17
50) 2,4,5-Trichl 0.358 0.444 0.404 0.402 0.387 0.410 0.474 0.413 0.412   8.48
51) 2-Fluorobiph 1.335 1.502 1.329 1.271 1.224 1.290 1.610 1.393 1.369   9.40
52) 2-Chloronaph 1.116 1.232 1.091 1.045 1.017 1.066 1.309 1.121 1.125   8.76
53) Biphenyl     1.453 1.659 1.472 1.414 1.386 1.435 1.763 1.529 1.514   8.70
54) 2-Nitroanili 0.309 0.347 0.304 0.305 0.294 0.305 0.379 0.323 0.321   8.89
55) Dimethylphth 1.225 1.373 1.190 1.215 1.187 1.198 1.496 1.232 1.264   8.78
56) Acenaphthyle 1.810 2.053 1.815 1.806 1.741 1.807 2.184 1.854 1.884   8.09
57) 2,6-Dinitrot 0.249 0.294 0.276 0.277 0.276 0.269 0.295 0.289 0.278   5.44
58) 3-Nitroanili 0.273 0.336 0.310 0.309 0.314 0.304 0.360 0.309 0.314   8.04
59) Acenaphthene 1.142 1.261 1.126 1.118 1.087 1.120 1.392 1.149 1.174   8.68
60) 2,4-Dinitrop 0.050 0.140 0.164 0.199 0.206 0.178       0.143 0.155  33.97
         ----- Quadratic regression -----                 Coefficient =  0.9998
              Response Ratio = -0.00971 + 0.16007 *A + 0.00982 *A^2

61) 4-Nitropheno 0.086 0.132 0.130 0.149 0.143 0.139 0.128 0.129 0.129  14.85
62) Dibenzofuran 1.495 1.709 1.525 1.515 1.477 1.496 1.824 1.536 1.572   7.96
63) 2,4-Dinitrot 0.341 0.409 0.370 0.375 0.372 0.377 0.427 0.376 0.381   6.88
64) 2,3,4,6-Tetr 0.249 0.317 0.316 0.346 0.346 0.328 0.316 0.303 0.315   9.75
65) Diethylphtha 1.074 1.284 1.135 1.165 1.131 1.149 1.363 1.174 1.184   7.89
66) Fluorene     1.195 1.401 1.237 1.243 1.184 1.237 1.494 1.302 1.287   8.42
67) 4-Chlorophen 0.623 0.676 0.613 0.605 0.587 0.609 0.710 0.621 0.631   6.54
68) 4-Nitroanili 0.277 0.330 0.293 0.305 0.295 0.292 0.345 0.312 0.306   7.28

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro- 0.087 0.127 0.135 0.150 0.149 0.140 0.094 0.134 0.127  18.73
71) n-Nitrosodip 0.465 0.540 0.468 0.469 0.455 0.462 0.602 0.503 0.496  10.38
72) 1,2-Diphenyl 0.597 0.678 0.569 0.554 0.581 0.564 0.713 0.613 0.609   9.44
73) 2,4,6-Tribro 0.078 0.090 0.094 0.095 0.098 0.091 0.103 0.094 0.093   7.70
74) 4-Bromopheny 0.204 0.233 0.212 0.216 0.216 0.209 0.249 0.220 0.220   6.66
75) Hexachlorobe 0.217 0.241 0.220 0.222 0.223 0.211 0.258 0.230 0.228   6.73
76) Pentachlorop 0.060 0.087 0.117 0.137 0.146 0.125       0.102 0.111  26.83
         ----- Quadratic regression -----                 Coefficient =  0.9999
              Response Ratio = -0.00428 + 0.10763 *A + 0.00772 *A^2

77) Phenanthrene 1.041 1.179 1.054 1.051 1.024 1.038 1.312 1.103 1.100   9.02
78) Anthracene   1.062 1.209 1.069 1.056 1.028 1.052 1.322 1.103 1.113   9.08
79) Carbazole    0.984 1.173 1.025 1.035 1.025 1.018 1.265 1.071 1.075   8.88
80) Di-n-butylph 1.079 1.270 1.167 1.201 1.187 1.169 1.316 1.214 1.201   5.93
81) Fluoranthene 1.143 1.391 1.283 1.339 1.325 1.282 1.463 1.314 1.317   7.01
82) Octadecane   0.340 0.377 0.341 0.320 0.311 0.332 0.414 0.368 0.350   9.67

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.128 1.310 1.172 1.169 1.209 1.177 1.389 1.215 1.221   7.04
85) Terphenyl-d1 0.703 0.789 0.715 0.722 0.756 0.710 0.822 0.735 0.744   5.72
86) Butylbenzylp 0.419 0.497 0.466 0.482 0.499 0.472 0.520 0.483 0.480   6.21
87) Butyl steara 0.240 0.270 0.259 0.259 0.267 0.264 0.299 0.269 0.266   6.14
88) Benzo[a]anth 1.081 1.233 1.094 1.088 1.139 1.078 1.399 1.129 1.155   9.62
89) 3,3'-Dichlor 0.356 0.446 0.394 0.401 0.411 0.398 0.449 0.401 0.407   7.29
90) Chrysene     0.980 1.121 0.983 0.970 0.988 0.976 1.212 1.023 1.032   8.55
91) bis(2-Ethylh 0.570 0.689 0.641 0.634 0.654 0.645 0.744 0.652 0.653   7.54

92) I   Perylene-d12          ----------------ISTD---------------------
```

8.7.1

8

Initial Calibration Summary

Job Number: JB94209 **Sample:** E2P2044-ICC2044
Account: PTCNJB PT Consultants **Lab FileID:** 2P47954.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

```
 93) Di-n-octylph 1.051 1.318 1.245 1.303 1.350 1.205 1.329 1.234 1.254   7.72
 94) Benzo[b]fluo 1.072 1.304 1.188 1.206 1.285 1.143 1.413 1.154 1.221   8.85
 95) Benzo[k]fluo 1.082 1.261 1.111 1.122 1.093 1.073 1.332 1.173 1.156   8.13
 96) Benzo[a]pyre 0.931 1.123 1.008 1.061 1.113 0.981 1.208 1.019 1.056   8.47
 97) Indeno[1,2,3 1.070 1.260 1.163 1.242 1.311 1.143 1.333 1.155 1.210   7.54
 98) Dibenz(a,h)a 0.780 0.927 0.859 0.936 1.005 0.852 0.959 0.849 0.896   8.15
 99) Dibenz[a,h]a 0.863 1.024 0.949 0.997 1.042 0.926 1.108 0.951 0.982   7.77
100) 7,12-Dimethy 0.290 0.380 0.491 0.528 0.553 0.489       0.398 0.447  21.03
          ----- Quadratic regression -----                Coefficient =  0.9997
               Response Ratio = -0.00775 + 0.44850 *A + 0.04234 *A^2

101) Benzo[g,h,i] 0.895 1.057 0.948 1.004 1.068 0.925 1.146 0.946 0.999   8.59

 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M2P2044.M         Thu Apr 30 11:03:58 2015   RPT1
```

8.7.1

8

Initial Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: E2P2045-ICC2045
Lab FileID: 2P47966.D

```
                          Response Factor Report  MS2P

  Method       : C:\MSDCHEM\1\METHODS\M2P2044.M (RTE Integrator)
  Title        : Semi Volatile Extractables by GC/MS
  Last Update  : Thu Apr 30 10:06:33 2015
  Response via : Initial Calibration

  Calibration Files
  2   =2p47962.D  5   =2p47963.D  25  =2p47965.D  80  =2p47967.D
  100 =2p47968.D  50  =2p47966.D  1   =2p47961.D  10  =2p47964.D

   Compound         2     5     25    80    100   50    1     10    Avg %RSD
  ---------------------------------------------------------------------------


102) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
103) Benzaldehyde       0.821 0.794 0.686 0.539 0.733       0.889 0.744  16.47

104) I   Naphthalene-d8       ----------------ISTD---------------------
105) Hydroquinone 0.354 0.244 0.303 0.322 0.324 0.325 0.200 0.249 0.290  18.23

106) I   Acenaphthene-d10a     ----------------ISTD---------------------
107) Atrazine     0.208 0.180 0.178 0.176 0.174 0.179 0.201 0.179 0.184   6.86
108) 1,2,4,5-Tetr 0.769 0.652 0.605 0.603 0.608 0.613 0.699 0.609 0.645   9.35

109) I   Chrysene-d12a         ----------------ISTD---------------------
110) Benzidine    0.481 0.482 0.500 0.404 0.368 0.444 0.499 0.529 0.463  11.66

111) I   Phenanthrene-d10a     ----------------ISTD---------------------
112) 1-chloroocta 0.365 0.300 0.286 0.273 0.264 0.281 0.328 0.291 0.298  11.02
113) O-terphenyl  0.737 0.605 0.565 0.575 0.562 0.574 0.661 0.593 0.609  10.01
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M2P2044.M         Thu Apr 30 10:10:13 2015   RPT1
```

8.7.2

8

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: E2P2045-ICV2044
Lab FileID: 2P47969.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2P2044\2p47969.D          Vial: 10
Acq On    : 29 Apr 2015   8:26 pm                   Operator: sarad
Sample    : icv2044-50                              Inst    : MS2P
Misc      : op83351,e2p2045                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M2P2044.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Apr 30 11:02:39 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.00	4.48
9	t	Phenol	1.557	1.385	11.0	97	0.00	4.26
12	t	2-Chlorophenol	1.342	1.275	5.0	105	0.00	4.33
19	t	2-Methylphenol	1.029	1.034	-0.5	112	0.00	4.75
21	t	3&4-Methylphenol	1.118	1.079	3.5	108	0.00	4.87
24	I	Naphthalene-d8	1.000	1.000	0.0	107	0.00	5.53
29	t	2-Nitrophenol	0.208	0.209	-0.5	108	0.00	5.23
30	t	2,4-Dimethylphenol	0.283	0.316	-11.7	109	0.00	5.30
31	t	Benzoic acid	0.228	0.227	0.4	99	0.00	5.46
33	t	2,4-Dichlorophenol	0.335	0.320	4.5	106	0.00	5.45
34	t	2,6-Dichlorophenol	0.330	0.323	2.1	110	0.00	5.62
43	t	4-Chloro-3-methylphenol	0.306	0.286	6.5	101	-0.01	6.05
47	I	Acenaphthene-d10	1.000	1.000	0.0	105	0.00	6.97
49	t	2,4,6-Trichlorophenol	0.388	0.393	-1.3	107	0.00	6.37
50	t	2,4,5-Trichlorophenol	0.412	0.425	-3.2	108	0.00	6.42
60	t	2,4-Dinitrophenol	100.000	84.704	15.3	80	0.00	7.05
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.129	0.142	-10.1	107	0.00	7.16
64		2,3,4,6-Tetrachlorophenol	0.315	0.330	-4.8	105	0.00	7.26
69	I	Phenanthrene-d10	1.000	1.000	0.0	104	0.00	8.23
70	t	4,6-Dinitro-2-methylpheno	0.127	0.124	2.4	92	0.00	7.48
		----------	True	Calc.	% Drift	----------		
76	t	Pentachlorophenol	100.000	97.202	2.3	92	0.00	8.08
83	I	Chrysene-d12	1.000	1.000	0.0	93	0.00	11.44
92	I	Perylene-d12	1.000	1.000	0.0	88	0.00	13.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p47966a.D M2P2044.M Thu Apr 30 11:37:01 2015 RPT1

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: E2P2045-ICV2044
Lab FileID: 2P47970.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P2044\2p47970.D Vial: 11
Acq On : 29 Apr 2015 8:47 pm Operator: sarad
Sample : icv2044-50 Inst : MS2P
Misc : op83351,e2p2045 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P2044.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 30 11:02:39 2015
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	56	0.00	4.48
3	t	Pyridine	1.221	1.172	4.0	52	0.06	2.12
10		Aniline	1.399	1.640	-17.2	72	0.01	4.22
16	t	Benzyl alcohol	0.682	0.739	-8.4	60	0.00	4.62
24	I	Naphthalene-d8	1.000	1.000	0.0	65	0.00	5.53
39	t	4-Chloroaniline	0.413	0.391	5.3	67	0.00	5.61
44	t	2-Methylnaphthalene	0.622	0.608	2.3	67	0.00	6.12
47	I	Acenaphthene-d10	1.000	1.000	0.0	65	0.00	6.97
54	t	2-Nitroaniline	0.321	0.294	8.4	62	0.00	6.61
58	t	3-Nitroaniline	0.314	0.276	12.1	59	0.00	6.95
62	t	Dibenzofuran	1.572	1.537	2.2	66	0.00	7.14
68	t	4-Nitroaniline	0.306	0.275	10.1	61	0.00	7.46
69	I	Phenanthrene-d10	1.000	1.000	0.0	64	0.00	8.22
79	t	Carbazole	1.075	0.960	10.7	60	0.00	8.47
83	I	Chrysene-d12	1.000	1.000	0.0	56	-0.01	11.43
92	I	Perylene-d12	1.000	1.000	0.0	52	0.00	13.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p47966a.D M2P2044.M Thu Apr 30 11:54:49 2015 RPT1

8.7.4

8

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Sample: E2P2045-ICV2045
Lab FileID: 2P47971A.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2P2044\2p47971a.D          Vial: 12
Acq On    : 29 Apr 2015   9:09 pm                    Operator: sarad
Sample    : icv2045-50                               Inst    : MS2P
Misc      : op83351,e2p2045                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M2P2044.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Apr 30 11:02:39 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
106 I	Acenaphthene-d10a	1.000	1.000	0.0	79	0.00	6.97
108	1,2,4,5-Tetrachlorobenzen	0.645	0.610	5.4	78	0.00	6.26

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p47966a.D M2P2044.M Thu Apr 30 12:22:21 2015 RPT1

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: E2P2045-ICV2044
Lab FileID: 2P47971.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P2044\2p47971.D Vial: 12
Acq On : 29 Apr 2015 9:09 pm Operator: sarad
Sample : icv2044-50 Inst : MS2P
Misc : op83351,e2p2045 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P2044.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Apr 30 11:02:39 2015
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	110	0.00	4.48
4	t	N-Nitrosodimethylamine	0.678	0.564	16.8	90	0.00	2.03
11	t	bis(2-Chloroethyl)ether	1.042	0.933	10.5	102	0.00	4.27
14	t	1,3-Dichlorobenzene	1.533	1.437	6.3	109	0.00	4.43
15	t	1,4-Dichlorobenzene	1.554	1.461	6.0	110	0.00	4.49
17	t	1,2-Dichlorobenzene	1.451	1.382	4.8	111	0.00	4.62
20	t	2,2'-oxybis(1-Chloropropa	0.333	0.310	6.9	111	0.00	4.72
22	t	n-Nitroso-di-n-propylamin	0.733	0.669	8.7	106	0.00	4.83
23	t	Hexachloroethane	0.577	0.553	4.2	112	0.00	4.89
24	I	Naphthalene-d8	1.000	1.000	0.0	114	0.00	5.53
26	t	Nitrobenzene	0.340	0.304	10.6	108	0.00	4.96
28	t	Isophorone	0.564	0.564	0.0	119	0.00	5.16
32	t	bis(2-Chloroethoxy)methan	0.352	0.348	1.1	121	0.00	5.34
36	t	1,2,4-Trichlorobenzene	0.375	0.363	3.2	120	0.00	5.49
38	t	Naphthalene	1.050	0.975	7.1	112	0.00	5.55
42	t	Hexachlorobutadiene	0.214	0.206	3.7	116	0.00	5.66
47	I	Acenaphthene-d10	1.000	1.000	0.0	115	0.00	6.97
		----------	True	Calc.	% Drift	----------		
48	t	Hexachlorocyclopentadiene	100.000	88.266	11.7	94	0.00	6.25
52	t	2-Chloronaphthalene	1.125	1.084	3.6	117	0.00	6.52
55	t	Dimethylphthalate	1.264	1.206	4.6	116	0.00	6.76
56	t	Acenaphthylene	1.884	1.604	14.9	102	0.00	6.85
57	t	2,6-Dinitrotoluene	0.278	0.267	4.0	114	0.00	6.81
59	t	Acenaphthene	1.174	1.122	4.4	116	0.00	6.99
63	t	2,4-Dinitrotoluene	0.381	0.339	11.0	104	0.00	7.15
65	t	Diethylphthalate	1.184	1.118	5.6	112	0.00	7.33
66	t	Fluorene	1.287	1.206	6.3	112	0.00	7.41
67	t	4-Chlorophenyl-phenylethe	0.631	0.597	5.4	113	0.00	7.41
69	I	Phenanthrene-d10	1.000	1.000	0.0	110	0.00	8.23
71	t	n-Nitrosodiphenylamine	0.496	0.482	2.8	115	0.00	7.52
72	t	1,2-Diphenylhydrazine	0.609	0.569	6.6	111	0.00	7.55
74	t	4-Bromophenyl-phenylether	0.220	0.209	5.0	110	0.00	7.82
75	t	Hexachlorobenzene	0.228	0.213	6.6	111	0.00	7.89
77	t	Phenanthrene	1.100	1.013	7.9	108	0.00	8.25
78	t	Anthracene	1.113	1.050	5.7	110	0.00	8.30
80	t	Di-n-butylphthalate	1.201	1.134	5.6	107	0.00	8.84
81	t	Fluoranthene	1.317	1.230	6.6	106	0.00	9.53
83	I	Chrysene-d12	1.000	1.000	0.0	106	0.00	11.44
84	t	Pyrene	1.221	1.159	5.1	104	0.00	9.80
86	t	Butylbenzylphthalate	0.480	0.481	-0.2	108	0.00	10.71
88	t	Benzo[a]anthracene	1.155	1.059	8.3	104	0.00	11.43
90	t	Chrysene	1.032	0.990	4.1	107	0.00	11.48

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: E2P2045-ICV2044
Lab FileID: 2P47971.D

91	t	bis(2-Ethylhexyl)phthalat	0.653	0.626	4.1	103	0.00	11.57
92	I	Perylene-d12	1.000	1.000	0.0	97	0.00	13.43
93	t	Di-n-octylphthalate	1.254	1.289	-2.8	104	0.00	12.50
94	t	Benzo[b]fluoranthene	1.221	1.141	6.6	97	-0.01	12.93
95	t	Benzo[k]fluoranthene	1.156	1.132	2.1	103	0.00	12.97
96	t	Benzo[a]pyrene	1.056	1.098	-4.0	109	0.00	13.35
97	t	Indeno[1,2,3-cd]pyrene	1.210	1.159	4.2	99	0.00	14.76
99	t	Dibenz[a,h]anthracene	0.982	0.946	3.7	99	0.00	14.79
		----------	AvgRF	CCRF	% Dev	----------		
101	t	Benzo[g,h,i]perylene	0.999	0.959	4.0	101	0.00	15.12

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p47966a.D M2P2044.M Thu Apr 30 12:22:19 2015 RPT1

8.7.6
8

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: E2P2045-ICV2045
Lab FileID: 2P47972A.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2P2044\2p47972a.D          Vial: 13
Acq On    : 29 Apr 2015   9:31 pm                    Operator: sarad
Sample    : icv2045-50                               Inst    : MS2P
Misc      : op83351,e2p2045                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M2P2044.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Apr 30 11:02:39 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102	I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	80	0.00	4.48
103		Benzaldehyde	0.744	0.945	-27.0	103	0.00	4.11
106	I	Acenaphthene-d10a	1.000	1.000	0.0	73	0.00	6.97
107		Atrazine	0.184	0.186	-1.1	76	0.00	7.99

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p47966a.D M2P2044.M Thu Apr 30 12:28:33 2015 RPT1

8.7.7

8

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: E2P2045-ICV2044
Lab FileID: 2P47972.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2P2044\2p47972.D          Vial: 13
Acq On    : 29 Apr 2015   9:31 pm                   Operator: sarad
Sample    : icv2044-50                              Inst    : MS2P
Misc      : op83351,e2p2045                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M2P2044.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Apr 30 11:02:39 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	106	0.00	4.48
2	t	1,4-Dioxane	0.520	0.427	17.9	90	-0.01	1.72
6	t	Indene	1.996	2.033	-1.9	115	0.00	4.69
7	t	Cumene	3.048	2.665	12.6	95	0.00	3.80
13	t	Decane	1.394	1.208	13.3	95	0.00	4.36
18	t	Acetophenone	1.599	1.452	9.2	102	0.00	4.82
24	I	Naphthalene-d8	1.000	1.000	0.0	109	0.00	5.53
27	t	Quinoline	0.709	0.664	6.3	108	-0.02	5.82
40	t	2,3-Dichloroaniline	0.414	0.337	18.6	93	0.00	6.36
41	t	Caprolactam	0.096	0.092	4.2	99	-0.02	5.89
45	t	1-Methylnaphthalene	0.686	0.598	12.8	100	0.00	6.20
46	t	Dimethylnaphthalene	0.656	0.595	9.3	104	0.00	6.63
47	I	Acenaphthene-d10	1.000	1.000	0.0	108	0.00	6.97
53	t	Biphenyl	1.514	1.384	8.6	104	0.00	6.50
69	I	Phenanthrene-d10	1.000	1.000	0.0	103	0.00	8.22
82	t	Octadecane	0.350	0.317	9.4	98	0.00	8.14
83	I	Chrysene-d12	1.000	1.000	0.0	97	0.00	11.44
92	I	Perylene-d12	1.000	1.000	0.0	86	0.00	13.43
		----------	True	Calc.	% Drift		----------	
100	t	7,12-Dimethylbenz(a)anthr	50.000	39.888	20.2	68	-0.01	12.91

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p47966a.D M2P2044.M Thu Apr 30 12:28:31 2015 RPT1

8.7.8

8

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: E2P2045-ICV2044
Lab FileID: 2P47973.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2P2044\2p47973.D          Vial: 14
Acq On    : 29 Apr 2015   9:53 pm                   Operator: sarad
Sample    : icv2044-50                              Inst    : MS2P
Misc      : op83351,e2p2045                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M2P2044.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Apr 30 11:02:39 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	116	0.00	4.48
5	S	2-Fluorophenol	1.176	1.106	6.0	105	0.00	3.42
8	S	Phenol-d5	1.480	1.334	9.9	104	0.00	4.25
24	I	Naphthalene-d8	1.000	1.000	0.0	123	0.00	5.53
25	S	Nitrobenzene-d5	0.362	0.348	3.9	120	0.00	4.94
47	I	Acenaphthene-d10	1.000	1.000	0.0	118	0.00	6.97
51	S	2-Fluorobiphenyl	1.369	1.392	-1.7	127	0.00	6.42
69	I	Phenanthrene-d10	1.000	1.000	0.0	118	0.00	8.22
73	S	2,4,6-Tribromophenol	0.093	0.082	11.8	107	0.00	7.62
83	I	Chrysene-d12	1.000	1.000	0.0	105	0.00	11.44
85	S	Terphenyl-d14	0.744	0.790	-6.2	116	0.00	10.02
92	I	Perylene-d12	1.000	1.000	0.0	100	0.00	13.42

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 2p47966a.D M2P2044.M        Thu Apr 30 12:14:09 2015   RPT1
```

8.7.9

8

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: E2P2045-ICV2045
Lab FileID: 2P47975.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2P2044\2p47975.D          Vial: 16
Acq On    : 29 Apr 2015  10:36 pm                    Operator: sarad
Sample    : icv2045-50                               Inst    : MS2P
Misc      : op83351,e2p2045                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M2P2044.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Apr 30 11:02:39 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
104 I	Naphthalene-d8a	1.000	1.000	0.0	81	0.00	5.53
105	Hydroquinone	0.290	0.327	-12.8	81	0.00	5.94

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p47966a.D M2P2044.M Thu Apr 30 12:17:47 2015 RPT1

8.7.10

8

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: E2P2047-ICV2045
Lab FileID: 2P47989A.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2P2047\2p47989a.D          Vial: 4
Acq On    : 30 Apr 2015   9:41 am                    Operator: samtap
Sample    : icv2045-50                               Inst    : MS2P
Misc      : op83358,e2p2047                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M2P2044.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Apr 30 11:02:39 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
109 I	Chrysene-d12a	1.000	1.000	0.0	58	0.00	11.44
110	Benzidine	0.463	0.771	-66.5#	101	0.00	9.71

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p47966a.D M2P2044.M Thu Apr 30 12:34:59 2015 RPT1

8.7.11

8

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: E2P2047-ICV2044
Lab FileID: 2P47989.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2P2047\2p47989.D          Vial: 4
Acq On    : 30 Apr 2015   9:41 am                   Operator: samtap
Sample    : icv2044-50                              Inst    : MS2P
Misc      : op83358,e2p2047                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M2P2044.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Apr 30 11:02:39 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
83	I	Chrysene-d12	1.000	1.000	0.0	83	0.00	11.44
89	t	3,3'-Dichlorobenzidine	0.407	0.414	-1.7	86	0.00	11.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p47966a.D M2P2044.M Thu Apr 30 12:34:57 2015 RPT1

8.7.12

8

Continuing Calibration Summary

Job Number: JB94209 **Sample:** E2P2069-CC2044
Account: PTCNJB PT Consultants **Lab FileID:** 2P48468.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2P2069\2p48468.D          Vial: 2
Acq On    : 11 May 2015   5:08 pm                   Operator: sarad
Sample    : cc2044-50                               Inst    : MS2P
Misc      : op83787,e2p2069                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M2P2044.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon May 11 17:30:45 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	-0.09	4.32
2	t	1,4-Dioxane	0.520	0.380	26.9#	78	-0.13	1.54
3	t	Pyridine	1.221	0.900	26.3#	75	-0.16	1.84
4	t	N-Nitrosodimethylamine	0.678	0.507	25.2#	76	-0.16	1.81
5	S	2-Fluorophenol	1.176	1.024	12.9	87	-0.12	3.28
6	t	Indene	1.996	1.837	8.0	102	-0.09	4.53
7	t	Cumene	3.048	2.830	7.2	99	-0.10	3.63
8	S	Phenol-d5	1.480	1.269	14.3	89	-0.10	4.13
9	t	Phenol	1.557	1.316	15.5	89	-0.11	4.14
10		Aniline	1.399	1.330	4.9	108	-0.09	4.06
11	t	bis(2-Chloroethyl)ether	1.042	0.904	13.2	93	-0.09	4.11
12	t	2-Chlorophenol	1.342	1.219	9.2	97	-0.10	4.18
13	t	Decane	1.394	1.330	4.6	103	-0.09	4.20
14	t	1,3-Dichlorobenzene	1.533	1.375	10.3	98	-0.09	4.27
15	t	1,4-Dichlorobenzene	1.554	1.378	11.3	98	-0.09	4.33
16	t	Benzyl alcohol	0.682	0.629	7.8	96	-0.09	4.47
17	t	1,2-Dichlorobenzene	1.451	1.312	9.6	100	-0.09	4.46
18	t	Acetophenone	1.599	1.535	4.0	105	-0.09	4.67
19	t	2-Methylphenol	1.029	0.952	7.5	99	-0.10	4.61
20	t	2,2'-oxybis(1-Chloropropa	0.333	0.296	11.1	100	-0.09	4.56
21	t	3&4-Methylphenol	1.118	0.983	12.1	95	-0.10	4.75
22	t	n-Nitroso-di-n-propylamin	0.733	0.703	4.1	105	-0.08	4.68
23	t	Hexachloroethane	0.577	0.537	6.9	102	-0.09	4.73
24	I	Naphthalene-d8	1.000	1.000	0.0	107	-0.09	5.37
25	S	Nitrobenzene-d5	0.362	0.341	5.8	103	-0.09	4.79
26	t	Nitrobenzene	0.340	0.316	7.1	105	-0.09	4.80
27	t	Quinoline	0.709	0.640	9.7	102	-0.09	5.67
28	t	Isophorone	0.564	0.539	4.4	107	-0.08	5.01
29	t	2-Nitrophenol	0.208	0.208	0.0	108	-0.09	5.07
30	t	2,4-Dimethylphenol	0.283	0.335	-18.4	115	-0.09	5.16
31	t	Benzoic acid	0.228	0.179	21.5#	78	-0.07	5.33
32	t	bis(2-Chloroethoxy)methan	0.352	0.307	12.8	100	-0.08	5.19
33	t	2,4-Dichlorophenol	0.335	0.312	6.9	104	-0.10	5.31
34	t	2,6-Dichlorophenol	0.330	0.306	7.3	104	-0.09	5.47
35		1,3,5-Trichlorobenzene	0.412	0.413	-0.2	113	-0.09	5.07
36	t	1,2,4-Trichlorobenzene	0.375	0.355	5.3	110	-0.09	5.33
37		1,2,3-Trichlorobenzene	0.383	0.363	5.2	110	-0.08	5.52
38	t	Naphthalene	1.050	1.048	0.2	113	-0.09	5.39
39	t	4-Chloroaniline	0.413	0.376	9.0	106	-0.08	5.46
40	t	2,3-Dichloroaniline	0.414	0.400	3.4	108	-0.09	6.21
41	t	Caprolactam	0.096	0.089	7.3	94	-0.05	5.78

Continuing Calibration Summary

Job Number: JB94209 **Sample:** E2P2069-CC2044
Account: PTCNJB PT Consultants **Lab FileID:** 2P48468.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

42	t	Hexachlorobutadiene	0.214	0.219	-2.3	115	-0.09	5.49
43	t	4-Chloro-3-methylphenol	0.306	0.292	4.6	103	-0.09	5.92
44	t	2-Methylnaphthalene	0.622	0.592	4.8	108	-0.09	5.96
45	t	1-Methylnaphthalene	0.686	0.657	4.2	108	-0.09	6.04
46	t	Dimethylnaphthalene	0.656	0.671	-2.3	115	-0.09	6.47
47	I	Acenaphthene-d10	1.000	1.000	0.0	114	-0.09	6.81
		----------	True	Calc.	% Drift	----------		
48	t	Hexachlorocyclopentadiene	100.000	89.992	10.0	103	-0.09	6.09
		----------	AvgRF	CCRF	% Dev	----------		
49	t	2,4,6-Trichlorophenol	0.388	0.350	9.8	103	-0.09	6.23
50	t	2,4,5-Trichlorophenol	0.412	0.351	14.8	97	-0.09	6.29
51	S	2-Fluorobiphenyl	1.369	1.175	14.2	103	-0.08	6.26
52	t	2-Chloronaphthalene	1.125	0.993	11.7	106	-0.09	6.36
53	t	Biphenyl	1.514	1.390	8.2	110	-0.09	6.34
54	t	2-Nitroaniline	0.321	0.325	-1.2	121	-0.09	6.47
55	t	Dimethylphthalate	1.264	1.130	10.6	107	-0.08	6.61
56	t	Acenaphthylene	1.884	1.828	3.0	115	-0.09	6.69
57	t	2,6-Dinitrotoluene	0.278	0.250	10.1	106	-0.08	6.67
58	t	3-Nitroaniline	0.314	0.288	8.3	108	-0.09	6.81
59	t	Acenaphthene	1.174	1.137	3.2	115	-0.09	6.84
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	80.772	19.2	90	-0.08	6.91
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.129	0.113	12.4	93	-0.10	7.06
62	t	Dibenzofuran	1.572	1.392	11.5	106	-0.09	6.98
63	t	2,4-Dinitrotoluene	0.381	0.331	13.1	100	-0.08	7.00
64		2,3,4,6-Tetrachlorophenol	0.315	0.255	19.0	88	-0.09	7.12
65	t	Diethylphthalate	1.184	1.139	3.8	113	-0.08	7.18
66	t	Fluorene	1.287	1.344	-4.4	123	-0.09	7.26
67	t	4-Chlorophenyl-phenylethe	0.631	0.629	0.3	117	-0.09	7.26
68	t	4-Nitroaniline	0.306	0.250	18.3	97	-0.08	7.32
69	I	Phenanthrene-d10	1.000	1.000	0.0	107	-0.10	8.05
70	t	4,6-Dinitro-2-methylpheno	0.127	0.126	0.8	96	-0.08	7.35
71	t	n-Nitrosodiphenylamine	0.496	0.446	10.1	103	-0.09	7.37
72	t	1,2-Diphenylhydrazine	0.609	0.641	-5.3	122	-0.09	7.39
73	S	2,4,6-Tribromophenol	0.093	0.081	12.9	96	-0.09	7.47
74	t	4-Bromophenyl-phenylether	0.220	0.204	7.3	105	-0.09	7.66
75	t	Hexachlorobenzene	0.228	0.206	9.6	105	-0.09	7.72
		----------	True	Calc.	% Drift	----------		
76	t	Pentachlorophenol	100.000	72.401	27.6#	74	-0.10	7.92
		----------	AvgRF	CCRF	% Dev	----------		
77	t	Phenanthrene	1.100	1.098	0.2	113	-0.10	8.07
78	t	Anthracene	1.113	1.099	1.3	112	-0.10	8.12
79	t	Carbazole	1.075	0.996	7.3	105	-0.10	8.29
80	t	Di-n-butylphthalate	1.201	1.187	1.2	109	-0.10	8.64
81	t	Fluoranthene	1.317	1.315	0.2	110	-0.12	9.31
82	t	Octadecane	0.350	0.392	-12.0	127	-0.09	7.97
83	I	Chrysene-d12	1.000	1.000	0.0	102	-0.13	11.21
84	t	Pyrene	1.221	1.263	-3.4	109	-0.12	9.58
85	S	Terphenyl-d14	0.744	0.703	5.5	101	-0.12	9.80
86	t	Butylbenzylphthalate	0.480	0.487	-1.5	105	-0.12	10.48

Continuing Calibration Summary

Job Number: JB94209 **Sample:** E2P2069-CC2044
Account: PTCNJB PT Consultants **Lab FileID:** 2P48468.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

87		Butyl stearate	0.266	0.276	-3.8	107	-0.12	10.62
88	t	Benzo[a]anthracene	1.155	1.160	-0.4	110	-0.13	11.19
89	t	3,3'-Dichlorobenzidine	0.407	0.380	6.6	97	-0.13	11.20
90	t	Chrysene	1.032	0.986	4.5	103	-0.13	11.24
91	t	bis(2-Ethylhexyl)phthalat	0.653	0.641	1.8	101	-0.12	11.34
92	I	Perylene-d12	1.000	1.000	0.0	81	-0.14	13.18
93	t	Di-n-octylphthalate	1.254	1.482	-18.2	99	-0.12	12.27
94	t	Benzo[b]fluoranthene	1.221	1.345	-10.2	95	-0.13	12.69
95	t	Benzo[k]fluoranthene	1.156	1.253	-8.4	94	-0.13	12.73
96	t	Benzo[a]pyrene	1.056	1.166	-10.4	96	-0.13	13.11
97	t	Indeno[1,2,3-cd]pyrene	1.210	1.257	-3.9	89	-0.14	14.50
98	t	Dibenz(a,h)acridine	0.896	0.855	4.6	81	-0.13	14.22
99	t	Dibenz[a,h]anthracene	0.982	1.027	-4.6	89	-0.14	14.52
		----------	True	Calc.	% Drift	----------		
100	t	7,12-Dimethylbenz(a)anthr	50.000	55.511	-11.0	92	-0.14	12.67
		----------	AvgRF	CCRF	% Dev	----------		
101	t	Benzo[g,h,i]perylene	0.999	0.990	0.9	86	-0.16	14.82

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p47966a.D M2P2044.M Mon May 11 22:01:25 2015 RPT1

8.7.13

8

Continuing Calibration Summary

Job Number: JB94209 **Sample:** E2P2069-CC2045
Account: PTCNJB PT Consultants **Lab FileID:** 2P48469.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2P2069\2p48469.D          Vial: 3
Acq On    : 11 May 2015   5:38 pm                   Operator: sarad
Sample    : cc2045-50                               Inst    : MS2P
Misc      : op83787,e2p2069                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\M2P2044eph.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Apr 30 11:02:39 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102	I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	107	-0.17	4.31
103		Benzaldehyde	0.744	0.673	9.5	98	-0.17	3.95
104	I	Naphthalene-d8a	1.000	1.000	0.0	101	-0.16	5.37
105		Hydroquinone	0.290	0.278	4.1	86	-0.12	5.83
106	I	Acenaphthene-d10a	1.000	1.000	0.0	100	-0.16	6.80
107		Atrazine	0.184	0.169	8.2	94	-0.16	7.83
108		1,2,4,5-Tetrachlorobenzen	0.645	0.635	1.6	103	-0.16	6.10
109	I	Chrysene-d12a	1.000	1.000	0.0	89	-0.24	11.20
110		Benzidine	0.463	0.358	22.7#	71	-0.21	9.51
111	I	Phenanthrene-d10a	1.000	1.000	0.0	100	-0.18	8.05
112	S	1-chlorooctadecane	0.298	0.291	2.3	103	-0.21	9.22
113	S	O-terphenyl	0.609	0.584	4.1	101	-0.19	8.41

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p47966a.D M2P2044eph.M Tue May 12 07:26:04 2015 RPT1

8.7.14

8

Initial Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: EP4082-ICC4082
Lab FileID: P94581.D

Response Factor Report MSP

Method : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 17 13:21:38 2015
Response via : Initial Calibration

Calibration Files
2 =P94577.D 5 =P94584.D 25 =P94581.D 80 =P94582.D
100 =P94579.D 50 =P94580.D 10 =P94583.D 1 =P94578.D

Compound	2	5	25	80	100	50	10	1	Avg	%RSD
1) I 1,4-Dichlorobenzene-d					ISTD					
2) 1,4-Dioxane	0.656	0.774	0.664	0.623	0.630	0.609	0.706	0.825	0.686	11.30
3) Pyridine	1.770	1.942	1.748	1.551	1.561	1.621	1.798	2.009	1.750	9.62
4) N-Nitrosodim	0.796	0.815	0.754	0.688	0.693	0.702	0.796	0.996	0.780	12.90
5) 2-Fluorophen	1.556	1.691	1.574	1.473	1.434	1.523	1.648	1.788	1.586	7.40
6) Indene	2.409	2.625	2.240	1.947	1.900	2.099	2.467	2.794	2.310	13.85
7) Cumene	3.834	4.171	3.705	3.153	3.048	3.440	4.005	4.552	3.738	13.71
8) Phenol-d5	1.949	2.200	1.925	1.761	1.727	1.825	2.042	2.228	1.957	9.65
9) Phenol	1.940	2.171	1.851	1.746	1.706	1.760	2.009	2.181	1.921	9.76
10) Aniline	2.323	2.470	2.210	1.620	1.578	2.086	2.257	2.754	2.162	18.52
11) bis(2-Chloro	1.398	1.529	1.288	1.178	1.168	1.247	1.397	1.701	1.363	13.45
12) 2-Chlorophen	1.561	1.709	1.469	1.279	1.251	1.362	1.626	1.719	1.497	12.41
13) Decane	1.585	1.683	1.422	1.202	1.165	1.297	1.551	1.969	1.484	18.17
14) 1,3-Dichloro	1.683	1.866	1.600	1.420	1.393	1.506	1.693	1.971	1.642	12.48
15) 1,4-Dichloro	1.617	1.745	1.547	1.399	1.362	1.474	1.655	1.927	1.591	11.79
16) Benzyl alcoh	0.896	0.986	0.932	0.862	0.818	0.862	0.938	0.930	0.903	5.97
17) 1,2-Dichloro	1.534	1.746	1.443	1.280	1.224	1.361	1.577	1.896	1.508	15.27
18) Acetophenone	2.240	2.386	2.059	1.857	1.808	1.961	2.242	2.363	2.115	10.63
19) 2-Methylphen	1.222	1.411	1.235	1.053	1.016	1.142	1.333	1.566	1.247	14.80
20) 2,2'-oxybis(	0.479	0.456	0.420	0.390	0.378	0.403	0.442	0.558	0.441	13.20
21) 3&4-Methylph	1.364	1.471	1.318	1.175	1.150	1.234	1.442	1.566	1.340	11.09
22) n-Nitroso-di	0.961	1.090	0.905	0.821	0.797	0.843	0.986	1.114	0.940	12.74
23) Hexachloroet	0.625	0.672	0.600	0.565	0.556	0.575	0.645	0.627	0.608	6.79
24) I Naphthalene-d8					ISTD					
25) Nitrobenzene	0.413	0.481	0.424	0.394	0.378	0.397	0.442	0.463	0.424	8.44
26) Nitrobenzene	0.405	0.459	0.407	0.364	0.350	0.379	0.430	0.488	0.410	11.50
27) Quinoline	0.740	0.859	0.751	0.710	0.693	0.713	0.805	0.880	0.769	9.25
28) Isophorone	0.682	0.802	0.718	0.648	0.630	0.670	0.745	0.802	0.712	9.31
29) 2-Nitropheno	0.187	0.235	0.216	0.206	0.198	0.208	0.217	0.202	0.208	6.92
30) 2,4-Dimethyl	0.320	0.382	0.388	0.340	0.330	0.359	0.346	0.380	0.356	7.23
31) Benzoic acid		0.228	0.274	0.312	0.297	0.293	0.249		0.275	11.58
32) bis(2-Chloro	0.441	0.478	0.419	0.384	0.378	0.395	0.441	0.509	0.431	10.75
33) 2,4-Dichloro	0.306	0.371	0.331	0.294	0.284	0.304	0.338	0.340	0.321	9.05
34) 2,6-Dichloro	0.299	0.351	0.309	0.281	0.270	0.289	0.323	0.354	0.309	10.06
35) 1,3,5-Trichl	0.420	0.475	0.401	0.343	0.324	0.364	0.427	0.493	0.406	14.82
36) 1,2,4-Trichl	0.363	0.419	0.368	0.326	0.314	0.338	0.381	0.430	0.367	11.36
37) 1,2,3-Trichl	0.381	0.416	0.359	0.303	0.292	0.320	0.386	0.449	0.363	15.26
38) Naphthalene	1.083	1.230	1.054	0.915	0.884	0.959	1.111	1.305	1.068	13.87
39) 4-Chloroanil	0.469	0.514	0.470	0.392	0.378	0.438	0.486	0.503	0.456	10.87
40) 2,3-Dichloro	0.388	0.469	0.398	0.363	0.344	0.371	0.422	0.457	0.402	11.14
41) Caprolactam	0.161	0.190	0.180	0.177	0.172	0.169	0.179	0.180	0.176	4.93
42) Hexachlorobu	0.211	0.225	0.191	0.171	0.161	0.177	0.204	0.225	0.196	12.64
43) 4-Chloro-3-m	0.317	0.370	0.340	0.319	0.311	0.329	0.354	0.346	0.336	6.06
44) 2-Methylnaph	0.601	0.701	0.600	0.523	0.497	0.549	0.624	0.715	0.601	13.05
45) 1-Methylnaph	0.754	0.868	0.737	0.647	0.623	0.679	0.788	0.884	0.748	12.91

Initial Calibration Summary

Job Number: JB94209 **Sample:** EP4082-ICC4082
Account: PTCNJB PT Consultants **Lab FileID:** P94581.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

```
46) Dimethylnaph 0.678 0.782 0.667 0.589 0.571 0.621 0.713 0.792 0.677  12.22

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy 0.248 0.292 0.312 0.301 0.293 0.297 0.295 0.255 0.287   7.88
49) 2,4,6-Trichl 0.357 0.432 0.375 0.350 0.339 0.353 0.393 0.385 0.373   8.08
50) 2,4,5-Trichl 0.374 0.439 0.391 0.379 0.372 0.375 0.410 0.402 0.393   5.96
51) 2-Fluorobiph 1.333 1.515 1.273 1.151 1.113 1.170 1.378 1.648 1.323  14.17
52) 2-Chloronaph 1.171 1.294 1.096 0.929 0.904 0.990 1.197 1.359 1.118  14.98
53) Biphenyl     1.643 1.804 1.484 1.241 1.182 1.314 1.586 1.890 1.518  17.12
54) 2-Nitroanili 0.322 0.366 0.350 0.343 0.339 0.333 0.357 0.299 0.339   6.25
55) Dimethylphth 1.276 1.503 1.274 1.204 1.180 1.201 1.348 1.521 1.313  10.20
56) Acenaphthyle 1.784 2.049 1.740 1.552 1.508 1.616 1.913 2.174 1.792  13.32
57) 2,6-Dinitrot 0.217 0.289 0.287 0.279 0.274 0.278 0.298 0.202 0.266  13.33
58) 3-Nitroanili 0.268 0.356 0.340 0.336 0.329 0.325 0.347 0.254 0.319  11.72
59) Acenaphthene 1.155 1.326 1.103 0.997 0.969 1.023 1.187 1.343 1.138  12.57
60) 2,4-Dinitrop 0.037 0.088 0.148 0.190 0.187 0.163 0.124       0.134  41.57
         ----- Quadratic regression -----                Coefficient =  0.9982
              Response Ratio = -0.01885 + 0.15960 *A + 0.00682 *A^2

61) 4-Nitropheno 0.134 0.197 0.193 0.208 0.203 0.193 0.191 0.127 0.181  17.43
62) Dibenzofuran 1.590 1.810 1.526 1.343 1.286 1.402 1.642 1.895 1.562  13.91
63) 2,4-Dinitrot 0.316 0.400 0.372 0.353 0.345 0.349 0.392 0.291 0.352  10.39
64) 2,3,4,6-Tetr 0.274 0.354 0.331 0.334 0.320 0.321 0.345 0.311 0.324   7.57
65) Diethylphtha 1.196 1.439 1.242 1.183 1.152 1.180 1.331 1.450 1.272   9.42
66) Fluorene     1.298 1.457 1.283 1.146 1.116 1.172 1.375 1.453 1.288  10.45
67) 4-Chlorophen 0.610 0.706 0.612 0.560 0.536 0.560 0.658 0.775 0.627  13.06
68) 4-Nitroanili 0.262 0.345 0.322 0.323 0.317 0.308 0.338 0.259 0.309  10.41

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro-       0.103 0.139 0.175 0.170 0.148 0.122       0.143  19.49
71) n-Nitrosodip 0.496 0.585 0.507 0.516 0.513 0.499 0.549 0.574 0.530   6.55
72) 1,2-Diphenyl 0.781 0.887 0.755 0.755 0.742 0.731 0.823 0.923 0.800   8.94
73) 2,4,6-Tribro 0.087 0.104 0.101 0.111 0.112 0.102 0.104 0.080 0.100  11.12
74) 4-Bromopheny 0.196 0.244 0.209 0.212 0.211 0.203 0.222 0.231 0.216   7.17
75) Hexachlorobe 0.219 0.246 0.206 0.210 0.210 0.195 0.216 0.251 0.219   8.89
76) Pentachlorop 0.112 0.146 0.146 0.154 0.152 0.144 0.147 0.088 0.136  17.09
77) Phenanthrene 1.162 1.297 1.088 1.057 1.049 1.051 1.215 1.438 1.169  12.01
78) Anthracene   1.128 1.318 1.145 1.091 1.088 1.087 1.229 1.383 1.183   9.65
79) Carbazole    1.067 1.275 1.094 1.066 1.064 1.056 1.186 1.285 1.137   8.59
80) Di-n-butylph 1.249 1.442 1.314 1.293 1.286 1.271 1.376 1.420 1.331   5.41
81) Fluoranthene 1.260 1.485 1.276 1.266 1.253 1.247 1.404 1.605 1.349   9.98
82) Octadecane   0.464 0.518 0.463 0.449 0.453 0.452 0.495 0.518 0.476   6.16

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.408 1.529 1.255 1.226 1.237 1.205 1.372 1.649 1.360  11.88
85) Terphenyl-d1 0.790 0.889 0.775 0.790 0.784 0.753 0.823 0.956 0.820   8.38
86) Butylbenzylp 0.514 0.581 0.562 0.581 0.590 0.551 0.574 0.542 0.562   4.46
87) Butyl steara 0.252 0.309 0.303 0.308 0.315 0.302 0.298 0.242 0.291   9.59
88) Benzo[a]anth 1.156 1.283 1.082 1.097 1.098 1.049 1.121 1.481 1.171  12.30
89) 3,3'-Dichlor 0.271 0.374 0.355 0.379 0.382 0.348 0.363 0.301 0.347  11.54
90) Chrysene     1.182 1.197 1.000 1.024 1.034 0.968 1.073 1.480 1.120  14.94
91) bis(2-Ethylh 0.641 0.767 0.734 0.775 0.787 0.732 0.740 0.680 0.732   6.75

92) I   Perylene-d12          ----------------ISTD---------------------
93) Di-n-octylph 1.080 1.352 1.370 1.324 1.326 1.299 1.363 1.024 1.267  10.71
94) Benzo[b]fluo 1.181 1.270 1.101 1.075 1.095 1.023 1.187 1.314 1.156   8.68
95) Benzo[k]fluo 1.261 1.356 1.099 0.973 0.957 0.992 1.166 1.545 1.169  17.85
96) Benzo[a]pyre 1.016 1.113 1.000 0.951 0.957 0.953 1.087 1.084 1.020   6.51
97) Indeno[1,2,3 0.712 0.853 0.864 0.905 0.933 0.845 0.871 1.025 0.876  10.10
98) Dibenz(a,h)a 0.685 0.891 0.831 0.832 0.838 0.814 0.850 0.649 0.799  10.63
```

Initial Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Sample: EP4082-ICC4082
Lab FileID: P94581.D

99)	Dibenz[a,h]a	0.815	0.987	0.920	0.896	0.906	0.874	0.921	0.877	0.899	5.47
100)	7,12-Dimethy	0.451	0.497	0.529	0.480	0.482	0.483	0.484	0.476	0.485	4.46
101)	Benzo[g,h,i]	0.905	1.063	0.941	0.920	0.931	0.884	0.980	0.891	0.939	6.22

(#) = Out of Range ### Number of calibration levels exceeded format ###

MP4082.M Fri Apr 17 14:14:48 2015

8.7.15

8

Initial Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: EP4084-ICC4084
Lab FileID: P94596.D

```
                         Response Factor Report  MSP

  Method       : C:\MSDCHEM\1\METHODS\MP4084.M (RTE Integrator)
  Title        : Semi Volatile Extractables by GC/MS
  Last Update  : Fri Apr 17 13:21:38 2015
  Response via : Initial Calibration

  Calibration Files
  2   =P94600.D   5   =P94599.D   25  =P94597.D   80  =P94595.D
  100 =P94594.D   50  =P94596.D   10  =P94598.D   1   =P94601.D

   Compound         2     5     25    80    100   50    10    1     Avg %RSD
  ---------------------------------------------------------------------------


159) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
160) Benzaldehyde       1.247 1.126 0.857 0.803 0.951 1.208       1.032  18.14

161) I   Phenanthrene-d10b     ----------------ISTD---------------------
162) Atrazine     0.246 0.225 0.219 0.206 0.200 0.215 0.222 0.222 0.219   6.24

163) I   Chrysene-d12b         ----------------ISTD---------------------
164) Benzidine    0.360 0.405 0.583 0.442 0.457 0.494 0.532       0.468  16.20

165) I   Naphthalene-d8b       ----------------ISTD---------------------
166) Hydroquinone 0.299 0.272 0.348 0.351 0.351 0.362 0.310       0.328  10.34

167) I   Acenaphthene-d10b     ----------------ISTD---------------------
168) 1,2,4,5-Tetr 0.782 0.634 0.568 0.514 0.490 0.531 0.596 0.681 0.600  16.22


 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           MP4082.M          Fri Apr 17 14:30:06 2015
```

8.7.16

8

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: EP4085-ICV4082
Lab FileID: P94610.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4082\P94610.D            Vial: 32
Acq On    : 17 Apr 2015   7:05 am                    Operator: olgaa
Sample    : icv4082-50                               Inst    : MSP
Misc      : op82944,ep4085,31.9,,,1,1                Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 17 13:21:38 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  48%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	110	0.00	4.34
9	t	Phenol	1.921	1.677	12.7	105	0.00	3.90
12	t	2-Chlorophenol	1.497	1.312	12.4	106	0.00	4.08
19	t	2-Methylphenol	1.247	1.175	5.8	114	0.00	4.67
21	t	3&4-Methylphenol	1.340	1.207	9.9	108	0.00	4.88
24	I	Naphthalene-d8	1.000	1.000	0.0	104	0.00	6.08
29	t	2-Nitrophenol	0.208	0.197	5.3	98	0.00	5.54
30	t	2,4-Dimethylphenol	0.356	0.359	-0.8	104	0.00	5.63
31	t	Benzoic acid	0.275	0.254	7.6	90	0.00	5.82
33	t	2,4-Dichlorophenol	0.321	0.289	10.0	99	0.00	5.89
34		2,6-Dichlorophenol	0.309	0.286	7.4	103	0.00	6.23
43	t	4-Chloro-3-methylphenol	0.336	0.300	10.7	95	-0.01	7.00
47	I	Acenaphthene-d10	1.000	1.000	0.0	104	0.00	8.80
49	t	2,4,6-Trichlorophenol	0.373	0.343	8.0	101	0.00	7.64
50	t	2,4,5-Trichlorophenol	0.393	0.346	12.0	96	-0.01	7.69
		----------	True	Calc.	% Drift		----------	
60	t	2,4-Dinitrophenol	100.000	80.630	19.4	76	-0.01	8.93
		----------	AvgRF	CCRF	% Dev		----------	
61	t	4-Nitrophenol	0.181	0.165	8.8	88	0.00	9.09
64		2,3,4,6-Tetrachlorophenol	0.324	0.282	13.0	91	0.00	9.35
69	I	Phenanthrene-d10	1.000	1.000	0.0	102	0.00	11.16
70	t	4,6-Dinitro-2-methylpheno	0.143	0.121	15.4	84	-0.01	9.79
76	t	Pentachlorophenol	0.136	0.138	-1.5	98	-0.01	10.89

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P94605A.D MP4082.M Fri Apr 17 15:04:46 2015

8.7.17

8

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: EP4085-ICV4082
Lab FileID: P94611.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4082\P94611.D            Vial: 33
Acq On    : 17 Apr 2015   7:34 am                    Operator: olgaa
Sample    : icv4082-50                               Inst    : MSP
Misc      : op82944,ep4085,31.9,,,1,1                Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 17 13:21:38 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  48%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	115	0.00	4.34
4	t	N-Nitrosodimethylamine	0.780	0.685	12.2	112	0.00	1.96
11	t	bis(2-Chloroethyl)ether	1.363	1.315	3.5	121	0.00	4.01
14	t	1,3-Dichlorobenzene	1.642	1.543	6.0	118	0.00	4.27
15	t	1,4-Dichlorobenzene	1.591	1.460	8.2	114	0.00	4.36
17	t	1,2-Dichlorobenzene	1.508	1.434	4.9	121	0.00	4.56
20	t	2,2'-oxybis(1-Chloropropa	0.441	0.404	8.4	116	0.00	4.70
22		n-Nitroso-di-n-propylamin	0.940	0.867	7.8	118	0.00	4.87
23	t	Hexachloroethane	0.608	0.579	4.8	116	0.00	5.00
24	I	Naphthalene-d8	1.000	1.000	0.0	108	0.00	6.09
26	t	Nitrobenzene	0.410	0.384	6.3	109	0.00	5.08
28	t	Isophorone	0.712	0.709	0.4	114	-0.01	5.42
32	t	bis(2-Chloroethoxy)methan	0.431	0.431	0.0	117	0.00	5.76
36	t	1,2,4-Trichlorobenzene	0.367	0.355	3.3	113	0.00	6.01
38	t	Naphthalene	1.068	0.946	11.4	106	0.00	6.12
42	t	Hexachlorobutadiene	0.196	0.202	-3.1	123	0.00	6.34
47	I	Acenaphthene-d10	1.000	1.000	0.0	103	0.00	8.81
48	t	Hexachlorocyclopentadiene	0.287	0.302	-5.2	104	0.00	7.45
52	t	2-Chloronaphthalene	1.118	1.082	3.2	112	0.00	7.93
55	t	Dimethylphthalate	1.313	1.187	9.6	101	0.00	8.45
56	t	Acenaphthylene	1.792	1.443	19.5	92	0.00	8.57
57	t	2,6-Dinitrotoluene	0.266	0.250	6.0	92	0.00	8.51
59	t	Acenaphthene	1.138	1.050	7.7	105	0.00	8.86
63	t	2,4-Dinitrotoluene	0.352	0.328	6.8	96	0.00	9.14
65	t	Diethylphthalate	1.272	1.123	11.7	98	-0.01	9.58
66	t	Fluorene	1.288	1.135	11.9	99	0.00	9.68
67	t	4-Chlorophenyl-phenylethe	0.627	0.557	11.2	102	0.00	9.72
69	I	Phenanthrene-d10	1.000	1.000	0.0	104	0.00	11.16
71	t	n-Nitrosodiphenylamine	0.530	0.478	9.8	99	0.00	9.91
72	t	1,2-Diphenylhydrazine	0.800	0.717	10.4	102	0.00	9.96
74	t	4-Bromophenyl-phenylether	0.216	0.193	10.6	98	0.00	10.49
75	t	Hexachlorobenzene	0.219	0.191	12.8	101	0.00	10.57
77	t	Phenanthrene	1.169	0.986	15.7	97	0.00	11.20
78	t	Anthracene	1.183	1.003	15.2	96	0.00	11.28
80	t	Di-n-butylphthalate	1.331	1.153	13.4	94	0.00	12.27
81	t	Fluoranthene	1.349	1.116	17.3	93	0.00	13.22
83	I	Chrysene-d12	1.000	1.000	0.0	88	0.00	15.87
84	t	Pyrene	1.360	1.244	8.5	91	0.00	13.61

Initial Calibration Verification

Job Number: JB94209 **Sample:** EP4085-ICV4082
Account: PTCNJB PT Consultants **Lab FileID:** P94611.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

86	t	Butylbenzylphthalate	0.562	0.570	-1.4	91	0.00	14.96
88	t	Benzo[a]anthracene	1.171	1.058	9.6	89	0.00	15.85
90	t	Chrysene	1.120	1.020	8.9	92	0.00	15.92
91	t	bis(2-Ethylhexyl)phthalat	0.732	0.722	1.4	87	0.00	16.14
92	I	Perylene-d12	1.000	1.000	0.0	83	0.00	18.42
93	t	Di-n-octylphthalate	1.267	1.360	-7.3	87	0.00	17.34
94	t	Benzo[b]fluoranthene	1.156	1.024	11.4	83	0.00	17.79
95	t	Benzo[k]fluoranthene	1.169	1.058	9.5	88	-0.01	17.84
96	t	Benzo[a]pyrene	1.020	1.009	1.1	88	0.00	18.33
97	t	Indeno[1,2,3-cd]pyrene	0.876	0.842	3.9	82	-0.01	20.05
99	t	Dibenz[a,h]anthracene	0.899	0.905	-0.7	85	-0.01	20.09
101	t	Benzo[g,h,i]perylene	0.939	0.932	0.7	87	-0.01	20.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P94605A.D MP4082.M Fri Apr 17 15:04:47 2015

8.7.18

8

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: EP4085-ICV4084
Lab FileID: P94611A.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4082\P94611A.D          Vial: 33
Acq On    : 17 Apr 2015   7:34 am                   Operator: olgaa
Sample    : icv4084-50                              Inst    : MSP
Misc      : op82944,ep4085,31.9,,,1,1               Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 17 13:21:38 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  48%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
167 I	Acenaphthene-d10b	1.000	1.000	0.0	76	0.00	8.81
168	1,2,4,5-Tetrachlorobenzen	0.600	0.538	10.3	77	0.00	7.45

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P94605A.D MP4082.M Fri Apr 17 15:28:39 2015

8.7.19

8

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Sample: EP4085-ICV4082
Lab FileID: P94612.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4082\P94612.D            Vial: 34
Acq On    : 17 Apr 2015   8:04 am                    Operator: olgaa
Sample    : icv4082-50                               Inst    : MSP
Misc      : op82944,ep4085,31.9,,,1,1                Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 17 13:21:38 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  48%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	118	0.00	4.34
2	t	1,4-Dioxane	0.686	0.606	11.7	117	0.00	1.80
6	t	Indene	2.310	2.272	1.6	128	0.00	4.67
7	t	Cumene	3.738	3.355	10.2	115	0.00	3.44
13	t	Decane	1.484	1.308	11.9	119	0.00	4.16
18	t	Acetophenone	2.115	1.872	11.5	112	-0.01	4.85
24	I	Naphthalene-d8	1.000	1.000	0.0	117	0.00	6.08
27	t	Quinoline	0.769	0.668	13.1	110	-0.01	6.61
40	t	2,3-Dichloroaniline	0.402	0.293	27.1	92	0.00	7.62
41	t	Caprolactam	0.176	0.147	16.5	101	-0.04	6.70
45	t	1-Methylnaphthalene	0.748	0.634	15.2	109	0.00	7.33
46	t	Dimethylnaphthalene	0.677	0.581	14.2	109	0.00	8.16
47	I	Acenaphthene-d10	1.000	1.000	0.0	107	0.00	8.80
53	t	Biphenyl	1.518	1.419	6.5	116	0.00	7.92
69	I	Phenanthrene-d10	1.000	1.000	0.0	103	-0.01	11.16
82	t	Octadecane	0.476	0.455	4.4	104	0.00	11.16
92	I	Perylene-d12	1.000	1.000	0.0	79	-0.01	18.42
100	t	7,12-Dimethylbenz(a)anthr	0.485	0.386	20.4	63	-0.02	17.80

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P94605A.D MP4082.M Fri Apr 17 15:04:48 2015

8.7.20

8

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: EP4085-ICV4084
Lab FileID: P94612A.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4082\P94612A.D          Vial: 34
Acq On    : 17 Apr 2015   8:04 am                   Operator: olgaa
Sample    : icv4084-50                              Inst    : MSP
Misc      : op82944,ep4085,31.9,,,1,1               Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 17 13:21:38 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  48%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
159	I	1,4-Dichlorobenzene-d4b	1.000	1.000	0.0	85	0.00	4.34
160		Benzaldehyde	1.032	1.111	-7.7	99	0.00	3.81
161	I	Phenanthrene-d10b	1.000	1.000	0.0	76	0.00	11.16
162		Atrazine	0.219	0.236	-7.8	83	0.00	10.82

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P94605A.D MP4082.M Fri Apr 17 15:30:08 2015

8.7.21

8

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Sample: EP4085-ICV4082
Lab FileID: P94613.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4082\P94613.D            Vial: 35
Acq On    : 17 Apr 2015   8:33 am                    Operator: olgaa
Sample    : icv4082-50                               Inst    : MSP
Misc      : op82944,ep4085,31.9,,,1,1                Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 17 13:21:38 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  48%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	157	0.00	4.35
10	t	Aniline	2.162	1.918	11.3	144	0.00	3.95
16	t	Benzyl alcohol	0.903	0.718	20.5	131	0.00	4.52
24	I	Naphthalene-d8	1.000	1.000	0.0	148	0.00	6.09
39	t	4-Chloroaniline	0.456	0.380	16.7	128	0.00	6.22
44	t	2-Methylnaphthalene	0.601	0.541	10.0	146	0.00	7.18
47	I	Acenaphthene-d10	1.000	1.000	0.0	128	0.00	8.81
54	t	2-Nitroaniline	0.339	0.319	5.9	123	0.00	8.11
58	t	3-Nitroaniline	0.319	0.272	14.7	107	0.00	8.77
62	t	Dibenzofuran	1.562	1.467	6.1	134	0.00	9.13
68	t	4-Nitroaniline	0.309	0.260	15.9	108	-0.01	9.73
69	I	Phenanthrene-d10	1.000	1.000	0.0	128	0.00	11.16
79	t	Carbazole	1.137	0.885	22.2	107	0.00	11.57

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P94605A.D MP4082.M Fri Apr 17 15:04:49 2015

8.7.22

8

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: EP4085-ICV4082
Lab FileID: P94614.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4082\P94614.D            Vial: 36
Acq On    : 17 Apr 2015   9:02 am                    Operator: olgaa
Sample    : icv4082-50                               Inst    : MSP
Misc      : op82944,ep4085,31.9,,,1,1                Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 17 13:21:38 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  48%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	113	0.00	4.34
5	S	2-Fluorophenol	1.586	1.375	13.3	102	0.00	2.93
8	S	Phenol-d5	1.957	1.597	18.4	99	0.00	3.89
24	I	Naphthalene-d8	1.000	1.000	0.0	109	0.00	6.08
25	S	Nitrobenzene-d5	0.424	0.406	4.2	112	0.00	5.06
47	I	Acenaphthene-d10	1.000	1.000	0.0	101	0.00	8.80
51	S	2-Fluorobiphenyl	1.323	1.277	3.5	111	0.00	7.78
69	I	Phenanthrene-d10	1.000	1.000	0.0	106	-0.01	11.16
73	S	2,4,6-Tribromophenol	0.100	0.089	11.0	92	-0.01	10.06
83	I	Chrysene-d12	1.000	1.000	0.0	93	-0.01	15.86
85	S	Terphenyl-d14	0.820	0.795	3.0	98	0.00	13.98

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 P94605A.D  MP4082.M         Fri Apr 17 15:04:50 2015
```

8.7.23

8

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: EP4085-ICV4084
Lab FileID: P94615A.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4082\P94615A.D          Vial: 37
Acq On    : 17 Apr 2015   9:31 am                   Operator: olgaa
Sample    : icv4084-50                              Inst    : MSP
Misc      : op82944,ep4085,31.9,,,1,1               Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 17 13:21:38 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  48%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
163 I	Chrysene-d12b	1.000	1.000	0.0	84	0.00	15.86
164	Benzidine	0.468	0.621	-32.7#	106	0.00	13.51

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P94605A.D MP4082.M Fri Apr 17 15:32:19 2015

8.7.24

8

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: EP4085-ICV4082
Lab FileID: P94615.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4082\P94615.D            Vial: 37
Acq On    : 17 Apr 2015   9:31 am                    Operator: olgaa
Sample    : icv4082-50                               Inst    : MSP
Misc      : op82944,ep4085,31.9,,,1,1                Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 17 13:21:38 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  48%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
83	I	Chrysene-d12	1.000	1.000	0.0	118	-0.01	15.86
89	t	3,3'-Dichlorobenzidine	0.347	0.291	16.1	99	0.00	15.87

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P94605A.D MP4082.M Fri Apr 17 15:04:51 2015

8.7.25

8

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: EP4085-ICV4084
Lab FileID: P94616.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4082\P94616.D            Vial: 38
Acq On    : 17 Apr 2015  10:01 am                    Operator: olgaa
Sample    : icv4084-50                               Inst    : MSP
Misc      : op82944,ep4085,31.9,,,1,1                Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 17 13:21:38 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  48%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
165 I	Naphthalene-d8b	1.000	1.000	0.0	108	0.00	6.09
166	Hydroquinone	0.328	0.455	-38.7#	136	0.00	6.78

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P94605A.D MP4082.M Fri Apr 17 15:04:52 2015

8.7.26

8

Continuing Calibration Summary

Job Number: JB94209 **Sample:** EP4119-CC4082
Account: PTCNJB PT Consultants **Lab FileID:** P95328.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4119\P95328.D            Vial: 2
Acq On    :  9 May 2015   3:44 pm                    Operator: kristis
Sample    : cc4082-50                                Inst    : MSP
Misc      : op83660,ep4119,100,,,1,1                 Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed May 06 14:38:22 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  48%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	138	-0.04	4.11
2	t	1,4-Dioxane	0.686	0.566	17.5	128	-0.03	1.65
3	t	Pyridine	1.750	1.544	11.8	132	-0.04	1.85
4	t	N-Nitrosodimethylamine	0.780	0.627	19.6	123	-0.03	1.81
5	S	2-Fluorophenol	1.586	1.409	11.2	128	-0.04	2.80
6	t	Indene	2.310	2.253	2.5	148	-0.04	4.44
7	t	Cumene	3.738	3.502	6.3	141	-0.04	3.22
8	S	Phenol-d5	1.957	1.764	9.9	134	-0.04	3.78
9	t	Phenol	1.921	1.716	10.7	135	-0.04	3.80
10	t	Aniline	2.162	1.354	37.4#	90	-0.04	3.75
11	t	bis(2-Chloroethyl)ether	1.363	1.222	10.3	136	-0.04	3.81
12	t	2-Chlorophenol	1.497	1.344	10.2	136	-0.04	3.90
13	t	Decane	1.484	1.109	25.3#	118	-0.04	3.92
14	t	1,3-Dichlorobenzene	1.642	1.487	9.4	137	-0.04	4.05
15	t	1,4-Dichlorobenzene	1.591	1.444	9.2	135	-0.04	4.13
16	t	Benzyl alcohol	0.903	0.807	10.6	130	-0.04	4.33
17	t	1,2-Dichlorobenzene	1.508	1.360	9.8	138	-0.04	4.33
18	t	Acetophenone	2.115	1.959	7.4	138	-0.04	4.65
19	t	2-Methylphenol	1.247	1.203	3.5	146	-0.04	4.53
20	t	2,2'-oxybis(1-Chloropropa	0.441	0.373	15.4	128	-0.04	4.47
21	t	3&4-Methylphenol	1.340	1.342	-0.1	150	-0.04	4.74
22		n-Nitroso-di-n-propylamin	0.940	0.962	-2.3	158	-0.04	4.66
23	t	Hexachloroethane	0.608	0.556	8.6	134	-0.04	4.76
24	I	Naphthalene-d8	1.000	1.000	0.0	135	-0.04	5.84
25	S	Nitrobenzene-d5	0.424	0.415	2.1	141	-0.04	4.85
26	t	Nitrobenzene	0.410	0.401	2.2	143	-0.04	4.87
27	t	Quinoline	0.769	0.718	6.6	136	-0.06	6.39
28	t	Isophorone	0.712	0.662	7.0	134	-0.05	5.20
29	t	2-Nitrophenol	0.208	0.208	0.0	136	-0.04	5.32
30	t	2,4-Dimethylphenol	0.356	0.353	0.8	133	-0.04	5.46
31	t	Benzoic acid	0.275	0.194	29.5#	90	-0.08	5.70
32	t	bis(2-Chloroethoxy)methan	0.431	0.400	7.2	137	-0.04	5.54
33	t	2,4-Dichlorophenol	0.321	0.309	3.7	137	-0.04	5.71
34		2,6-Dichlorophenol	0.309	0.297	3.9	139	-0.04	6.02
35		1,3,5-Trichlorobenzene	0.406	0.379	6.7	141	-0.04	5.31
36	t	1,2,4-Trichlorobenzene	0.367	0.335	8.7	134	-0.04	5.77
37		1,2,3-Trichlorobenzene	0.363	0.341	6.1	144	-0.04	6.10
38	t	Naphthalene	1.068	0.984	7.9	139	-0.04	5.87
39	t	4-Chloroaniline	0.456	0.355	22.1#	110	-0.04	6.01
40	t	2,3-Dichloroaniline	0.402	0.376	6.5	137	-0.04	7.40
41	t	Caprolactam	0.176	0.145	17.6	116	-0.06	6.57

Continuing Calibration Summary

Job Number: JB94209 **Sample:** EP4119-CC4082
Account: PTCNJB PT Consultants **Lab FileID:** P95328.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

42	t	Hexachlorobutadiene	0.196	0.205	-4.6	157	-0.04	6.09
43	t	4-Chloro-3-methylphenol	0.336	0.347	-3.3	143	-0.04	6.87
44	t	2-Methylnaphthalene	0.601	0.564	6.2	139	-0.04	6.92
45	t	1-Methylnaphthalene	0.748	0.703	6.0	140	-0.04	7.07
46	t	Dimethylnaphthalene	0.677	0.666	1.6	145	-0.04	7.90
47	I	Acenaphthene-d10	1.000	1.000	0.0	142	-0.04	8.54
48	t	Hexachlorocyclopentadiene	0.287	0.328	-14.3	157	-0.04	7.19
49	t	2,4,6-Trichlorophenol	0.373	0.360	3.5	145	-0.04	7.43
50	t	2,4,5-Trichlorophenol	0.393	0.372	5.3	141	-0.04	7.52
51	S	2-Fluorobiphenyl	1.323	1.148	13.2	140	-0.04	7.53
52	t	2-Chloronaphthalene	1.118	1.003	10.3	144	-0.04	7.68
53	t	Biphenyl	1.518	1.375	9.4	149	-0.04	7.67
54	t	2-Nitroaniline	0.339	0.327	3.5	140	-0.04	7.90
55	t	Dimethylphthalate	1.313	1.212	7.7	144	-0.05	8.21
56	t	Acenaphthylene	1.792	1.569	12.4	138	-0.04	8.32
57	t	2,6-Dinitrotoluene	0.266	0.272	-2.3	140	-0.04	8.28
58	t	3-Nitroaniline	0.319	0.278	12.9	122	-0.04	8.57
59	t	Acenaphthene	1.138	1.022	10.2	142	-0.04	8.59
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	89.760	10.2	131	-0.04	8.71
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.181	0.177	2.2	131	-0.05	9.03
62	t	Dibenzofuran	1.562	1.404	10.1	143	-0.04	8.87
63	t	2,4-Dinitrotoluene	0.352	0.368	-4.5	150	-0.04	8.91
64		2,3,4,6-Tetrachlorophenol	0.324	0.331	-2.2	147	-0.04	9.13
65	t	Diethylphthalate	1.272	1.181	7.2	143	-0.05	9.34
66	t	Fluorene	1.288	1.187	7.8	144	-0.04	9.41
67	t	4-Chlorophenyl-phenylethe	0.627	0.580	7.5	147	-0.04	9.45
68	t	4-Nitroaniline	0.309	0.274	11.3	127	-0.04	9.55
69	I	Phenanthrene-d10	1.000	1.000	0.0	145	-0.04	10.89
70	t	4,6-Dinitro-2-methylpheno	0.143	0.138	3.5	136	-0.04	9.56
71	t	n-Nitrosodiphenylamine	0.530	0.498	6.0	145	-0.04	9.66
72	t	1,2-Diphenylhydrazine	0.800	0.734	8.3	146	-0.04	9.70
73	S	2,4,6-Tribromophenol	0.100	0.109	-9.0	155	-0.04	9.81
74	t	4-Bromophenyl-phenylether	0.216	0.220	-1.9	157	-0.04	10.22
75	t	Hexachlorobenzene	0.219	0.224	-2.3	167	-0.04	10.28
76	t	Pentachlorophenol	0.136	0.146	-7.4	147	-0.04	10.66
77	t	Phenanthrene	1.169	1.029	12.0	142	-0.04	10.93
78	t	Anthracene	1.183	1.044	11.7	140	-0.04	11.01
79	t	Carbazole	1.137	1.015	10.7	140	-0.04	11.33
80	t	Di-n-butylphthalate	1.331	1.220	8.3	140	-0.05	11.98
81	t	Fluoranthene	1.349	1.223	9.3	143	-0.05	12.91
82	t	Octadecane	0.476	0.438	8.0	141	-0.04	10.86
83	I	Chrysene-d12	1.000	1.000	0.0	151	-0.05	15.53
84	t	Pyrene	1.360	1.160	14.7	145	-0.04	13.29
85	S	Terphenyl-d14	0.820	0.765	6.7	153	-0.04	13.66
86	t	Butylbenzylphthalate	0.562	0.507	9.8	138	-0.05	14.63
87		Butyl stearate	0.291	0.241	17.2	120	-0.05	14.83
88	t	Benzo[a]anthracene	1.171	1.068	8.8	153	-0.05	15.51
89	t	3,3'-Dichlorobenzidine	0.347	0.352	-1.4	153	-0.05	15.56
90	t	Chrysene	1.120	0.930	17.0	145	-0.04	15.58
91	t	bis(2-Ethylhexyl)phthalat	0.732	0.671	8.3	138	-0.05	15.77
92	I	Perylene-d12	1.000	1.000	0.0	140	-0.05	18.07
93	t	Di-n-octylphthalate	1.267	1.270	-0.2	137	-0.05	16.97

Continuing Calibration Summary

Job Number: JB94209 **Sample:** EP4119-CC4082
Account: PTCNJB PT Consultants **Lab FileID:** P95328.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

94	t	Benzo[b]fluoranthene	1.156	1.136	1.7	155	-0.05	17.44
95	t	Benzo[k]fluoranthene	1.169	1.024	12.4	144	-0.05	17.49
96	t	Benzo[a]pyrene	1.020	0.989	3.0	145	-0.05	17.97
97	t	Indeno[1,2,3-cd]pyrene	0.876	0.978	-11.6	162	-0.04	19.69
98	t	Dibenz(a,h)acridine	0.799	0.898	-12.4	155	-0.05	19.37
99	t	Dibenz[a,h]anthracene	0.899	0.977	-8.7	156	-0.04	19.73
100	t	7,12-Dimethylbenz(a)anthr	0.485	0.523	-7.8	152	-0.05	17.45
101	t	Benzo[g,h,i]perylene	0.939	0.943	-0.4	149	-0.05	20.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P94605A.D MP4082.M Sun May 10 12:02:46 2015

8.7.27

8

Continuing Calibration Summary

Job Number: JB94209 **Sample:** EP4119-CC4084
Account: PTCNJB PT Consultants **Lab FileID:** P95329.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4119\P95329.D          Vial: 3
Acq On    :  9 May 2015   4:12 pm                   Operator: kristis
Sample    : cc4084-50                               Inst    : MSP
Misc      : op83660,ep4119,100,,,1,1                Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed May 06 14:38:22 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  48%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102	I	1,4-Dichlorobenzene-d4b	1.000	1.000	0.0	113	-0.04	4.11
103		Benzaldehyde	1.032	0.892	13.6	106	-0.20	3.61
104	I	Phenanthrene-d10b	1.000	1.000	0.0	123	-0.05	10.89
105		Atrazine	0.219	0.223	-1.8	127	-0.03	10.57
106	I	Chrysene-d12b	1.000	1.000	0.0	116	-0.06	15.52
107		Benzidine	0.468	0.364	22.2#	86	-0.28	13.23
108	I	Naphthalene-d8b	1.000	1.000	0.0	113	-0.04	5.84
109		Hydroquinone	0.328	0.374	-14.0	116	-0.09	6.69
110	I	Acenaphthene-d10b	1.000	1.000	0.0	110	-0.04	8.54
111		1,2,4,5-Tetrachlorobenzen	0.600	0.620	-3.3	128	-0.26	7.18

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P94605A.D MP4082.M Sun May 10 12:02:47 2015

8.7.28

8

New Jersey

ACCUTEST LABORATORIES

GC/MS Semi-volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Kristin Weiler
05/12/15 10:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48478.D
Acq On : 11 May 2015 9:26 pm
Operator : sarad
Sample : jb94209-1
Misc : op83787,e2p2069,30.3
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 11 22:46:37 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.318	152	130594	40.00	ppm	-0.09
24) Naphthalene-d8	5.372	136	454368	40.00	ppm	-0.09
47) Acenaphthene-d10	6.805	164	276012	40.00	ppm	-0.09
69) Phenanthrene-d10	8.046	188	435546	40.00	ppm	-0.10
83) Chrysene-d12	11.202	240	388814	40.00	ppm	-0.13
92) Perylene-d12	13.181	264	326321	40.00	ppm	-0.14
102) 1,4-Dichlorobenzene-d4a	4.318	152	130594	40.00	ppm	-0.09
104) Naphthalene-d8a	5.372	136	454368	40.00	ppm	#-0.09
106) Acenaphthene-d10a	6.805	164	276012	40.00	ppm	-0.09
109) Chrysene-d12a	11.202	240	388814	40.00	ppm	-0.13
System Monitoring Compounds						
5) 2-Fluorophenol	3.307	112	68589	17.86	ppm	-0.09
Spiked Amount 50.000	Range 11 - 58		Recovery = 35.72%			
8) Phenol-d5	4.152	99	74447	15.41	ppm	-0.07
Spiked Amount 50.000	Range 10 - 59		Recovery = 30.82%			
25) Nitrobenzene-d5	4.789	82	116581	28.31	ppm	-0.09
Spiked Amount 50.000	Range 19 - 61		Recovery = 56.62%			
51) 2-Fluorobiphenyl	6.265	172	319168	33.78	ppm	-0.08
Spiked Amount 50.000	Range 21 - 58		Recovery = 67.56%#			
73) 2,4,6-Tribromophenol	7.468	330	21295	21.04	ppm	-0.09
Spiked Amount 50.000	Range 12 - 68		Recovery = 42.08%			
85) Terphenyl-d14	9.800	244	183977	25.44	ppm	-0.12
Spiked Amount 50.000	Range 16 - 65		Recovery = 50.88%			
Target Compounds						Qvalue
9) Phenol	4.168	94	25587	5.03	ppm	71
18) Acetophenone	4.671	105	10611	2.03	ppm	93
21) 3&4-Methylphenol	4.772	108	20602	5.65	ppm	83
38) Naphthalene	5.388	128	122301	10.25	ppm	98
44) 2-Methylnaphthalene	5.960	141	6601	0.93	ppm	96
52) 2-Chloronaphthalene	6.356	162	30540	3.94	ppm	91
53) Biphenyl	6.340	154	13354	1.28	ppm	94
56) Acenaphthylene	6.693	152	15336	1.18	ppm	100
77) Phenanthrene	8.067	178	28444	2.37	ppm	99
81) Fluoranthene	9.313	202	18247	1.27	ppm	97
84) Pyrene	9.576	202	12928	1.09	ppm	93
90) Chrysene	11.228	228	5263	0.52	ppm	88
94) Benzo[b]fluoranthene	12.688	252	4569m	0.46	ppm	

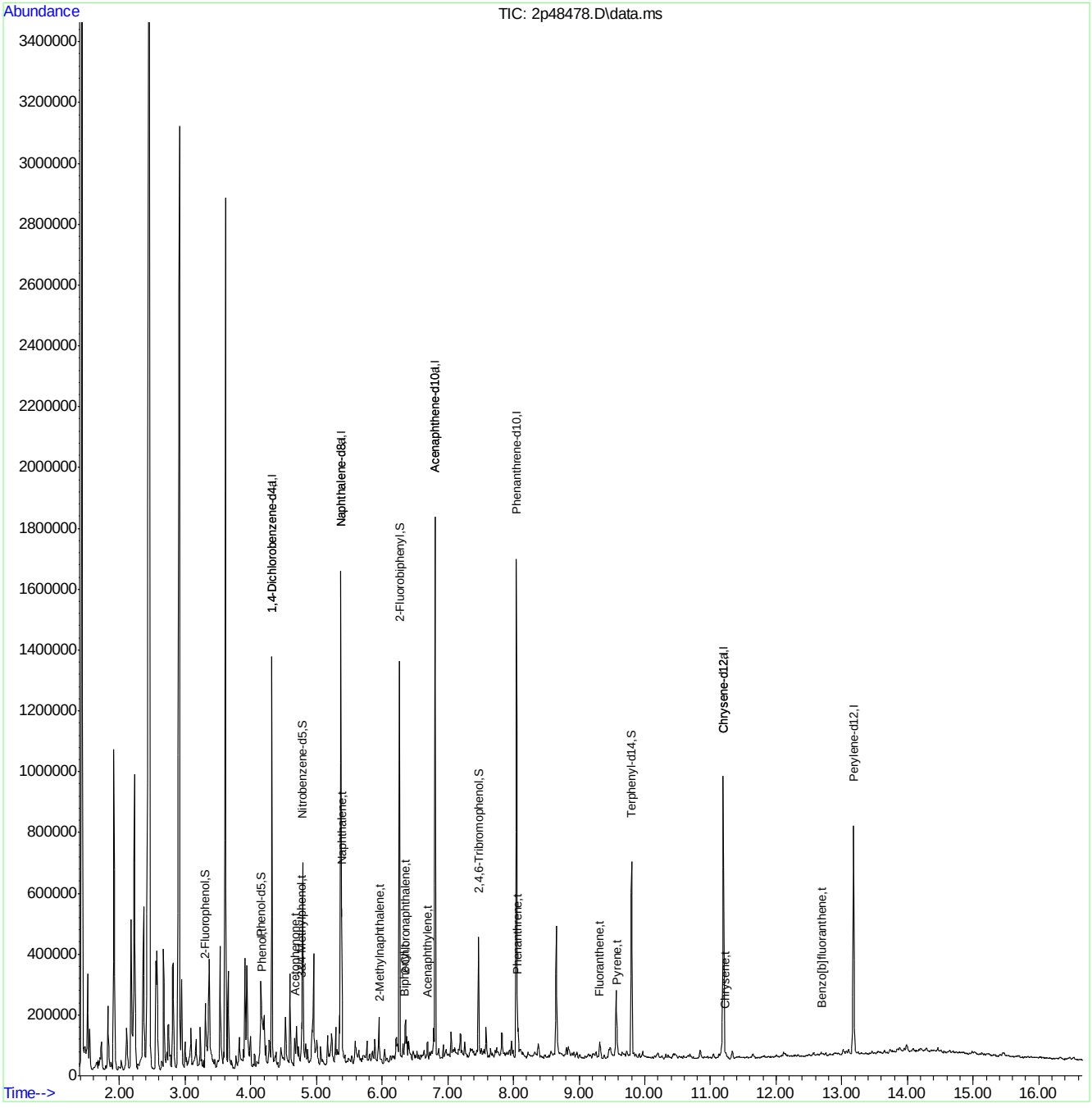
(#) = qualifier out of range (m) = manual integration (+) = signals summed

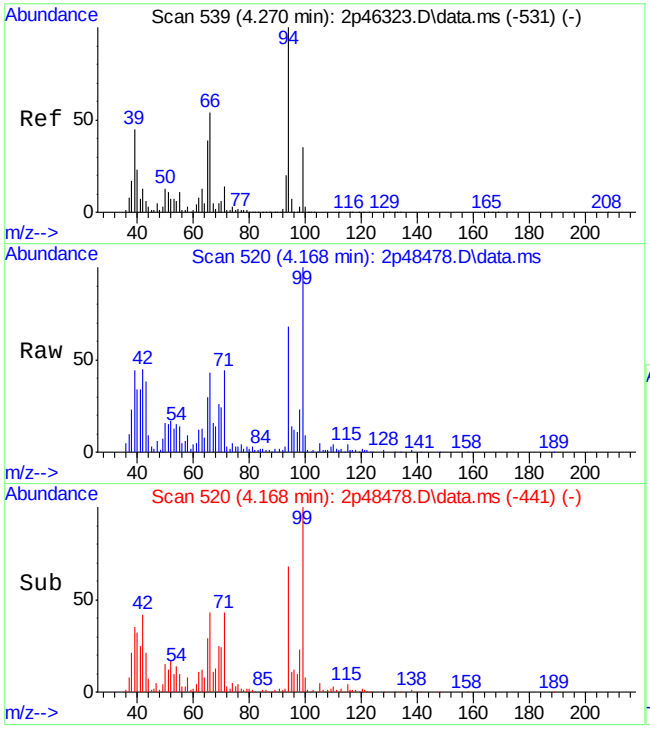
9.1.1
9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48478.D
Acq On : 11 May 2015 9:26 pm
Operator : sarad
Sample : jb94209-1
Misc : op83787,e2p2069,30.3
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 11 22:46:37 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

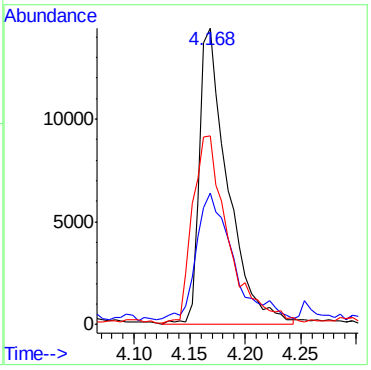


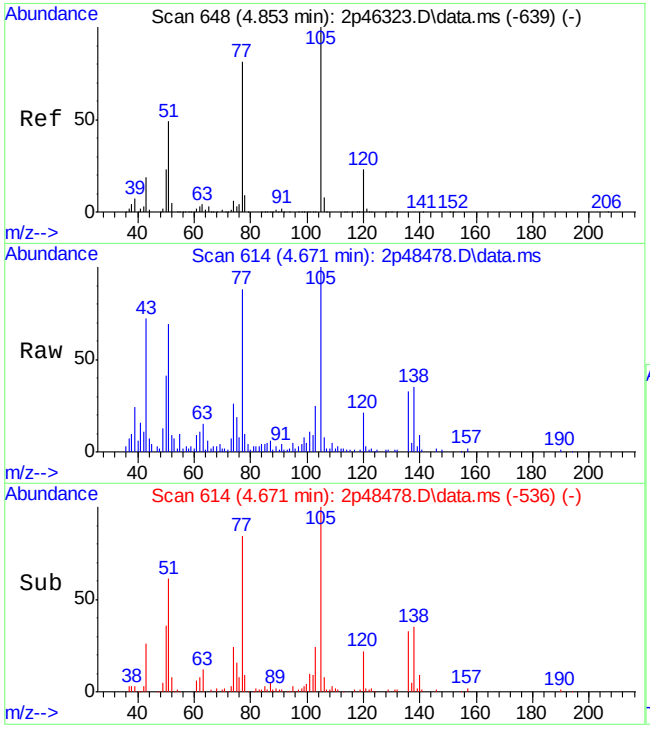


#9
Phenol
Concen: 5.03 ppm
RT: 4.168 min Scan# 520
Delta R.T. -0.075 min
Lab File: 2p48478.D
Acq: 11 May 2015 9:26 pm

Tgt Ion: 94 Resp: 25587

Ion	Ratio	Lower	Upper
94	100		
65	42.9	4.1	64.1
66	62.6	7.4	67.4

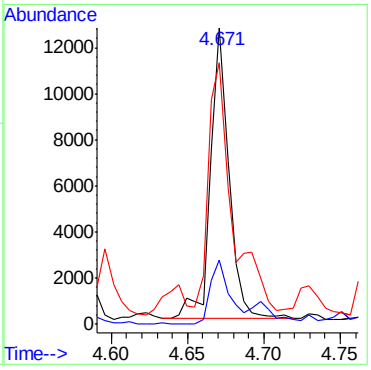


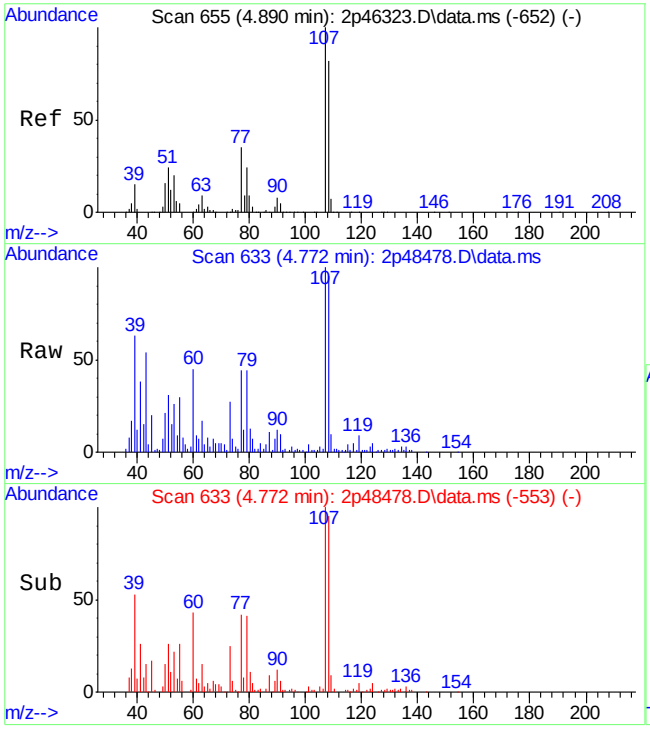


#18
Acetophenone
Concen: 2.03 ppm
RT: 4.671 min Scan# 614
Delta R.T. -0.080 min
Lab File: 2p48478.D
Acq: 11 May 2015 9:26 pm

Tgt Ion:105 Resp: 10611

Ion	Ratio	Lower	Upper
105	100		
120	20.9	0.0	53.1
77	82.4	46.1	106.1

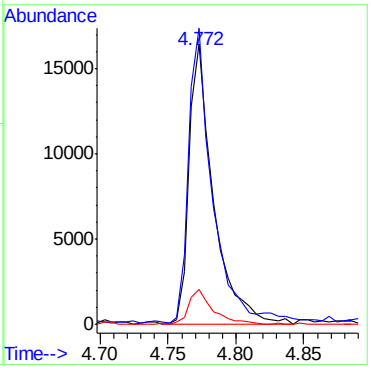


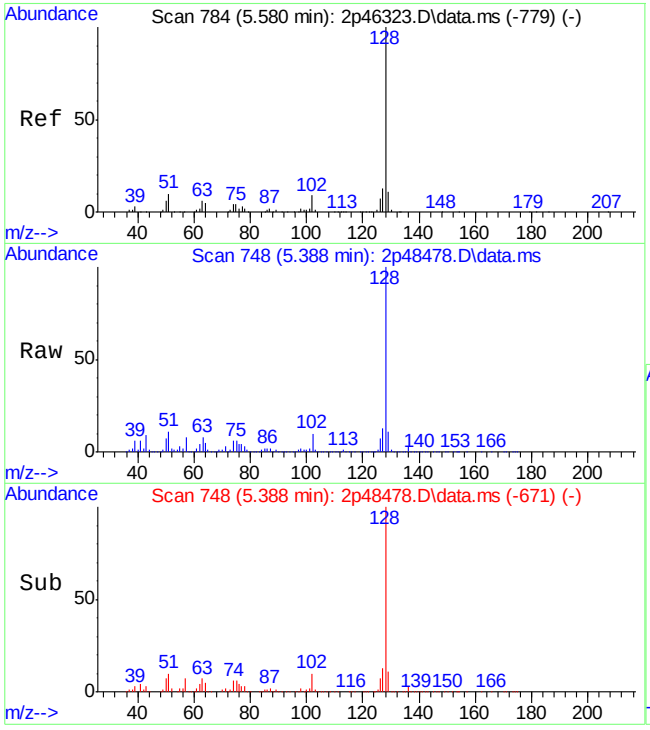


#21
3&4-Methylphenol
Concen: 5.65 ppm
RT: 4.772 min Scan# 633
Delta R.T. -0.070 min
Lab File: 2p48478.D
Acq: 11 May 2015 9:26 pm

Tgt Ion:108 Resp: 20602

Ion	Ratio	Lower	Upper
108	100		
107	104.4	94.1	154.1
90	12.1	0.0	39.9

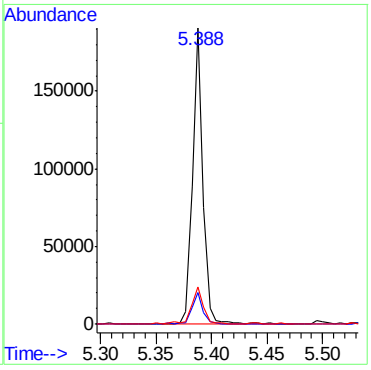




#38
Naphthalene
Concen: 10.25 ppm
RT: 5.388 min Scan# 748
Delta R.T. -0.086 min
Lab File: 2p48478.D
Acq: 11 May 2015 9:26 pm

Tgt Ion:128 Resp: 122301

Ion	Ratio	Lower	Upper
128	100		
129	10.4	0.0	41.0
127	12.5	0.0	43.4



9.1.1

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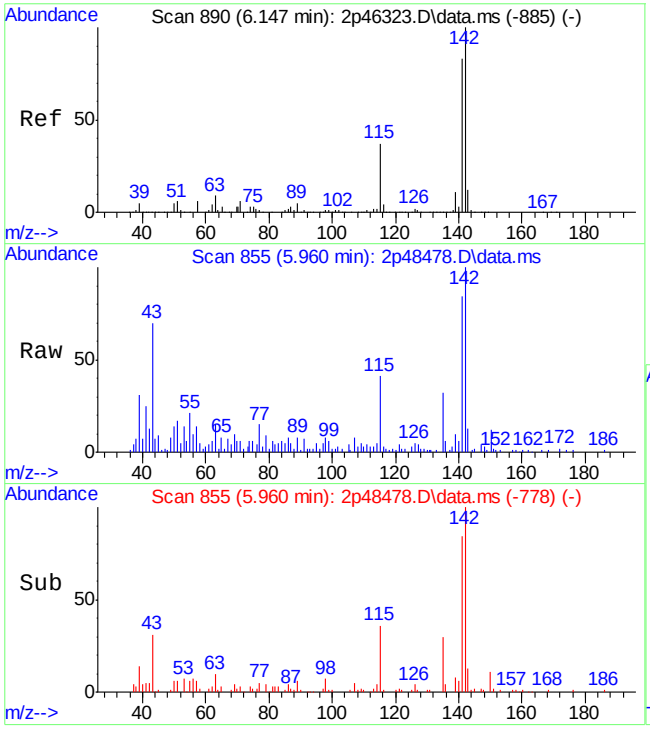
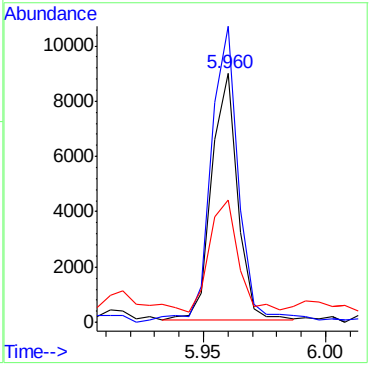
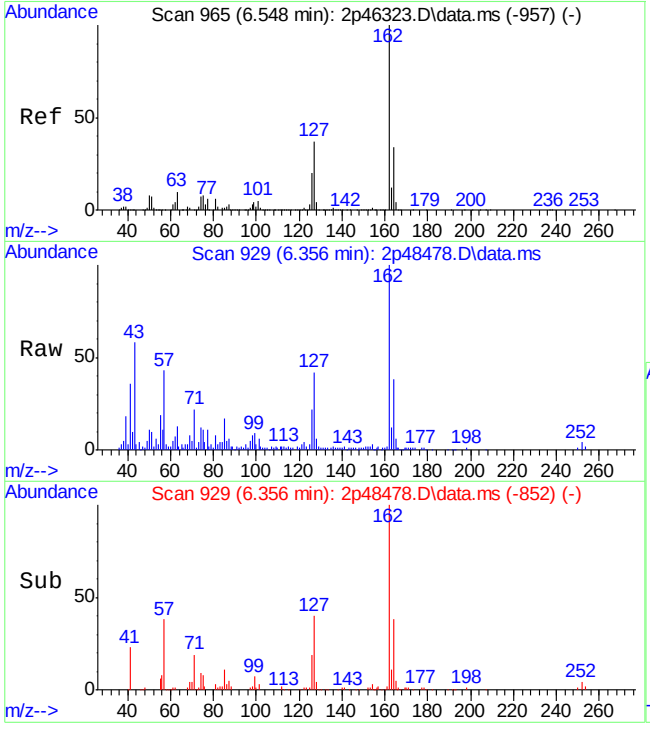


#44
2-Methylnaphthalene
Concen: 0.93 ppm
RT: 5.960 min Scan# 855
Delta R.T. -0.086 min
Lab File: 2p48478.D
Acq: 11 May 2015 9:26 pm

Tgt Ion:141 Resp: 6601

Ion	Ratio	Lower	Upper
141	100		
142	117.6	85.1	145.1
115	42.7	6.3	66.3

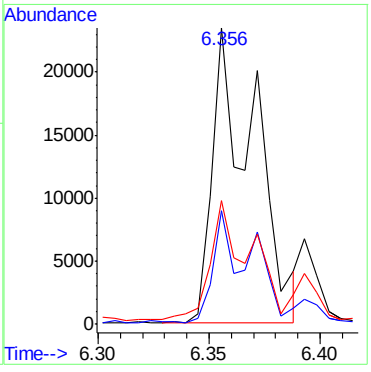




#52
2-Chloronaphthalene
Concen: 3.94 ppm
RT: 6.356 min Scan# 929
Delta R.T. -0.086 min
Lab File: 2p48478.D
Acq: 11 May 2015 9:26 pm

Tgt Ion:162 Resp: 30540

Ion	Ratio	Lower	Upper
162	100		
164	38.5	1.9	61.9
127	39.4	5.3	65.3



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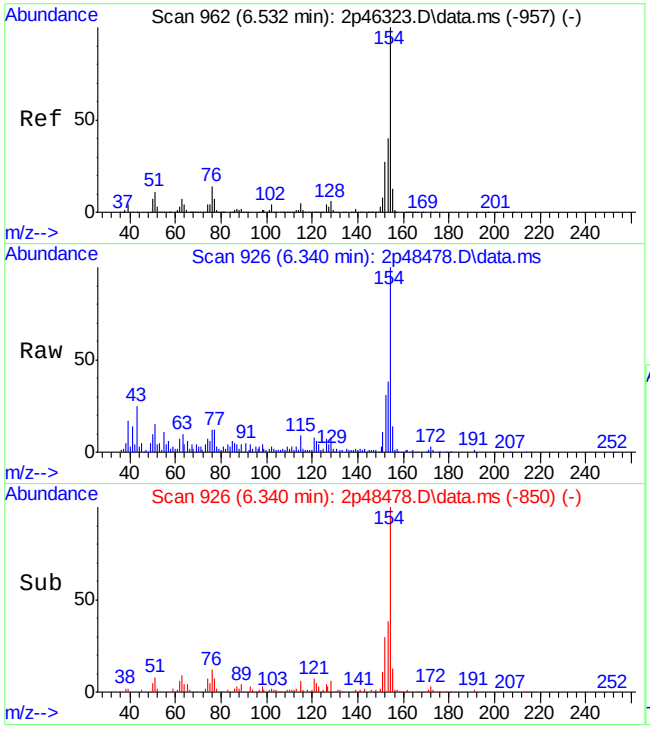
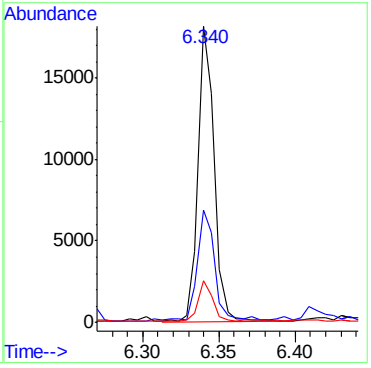
9

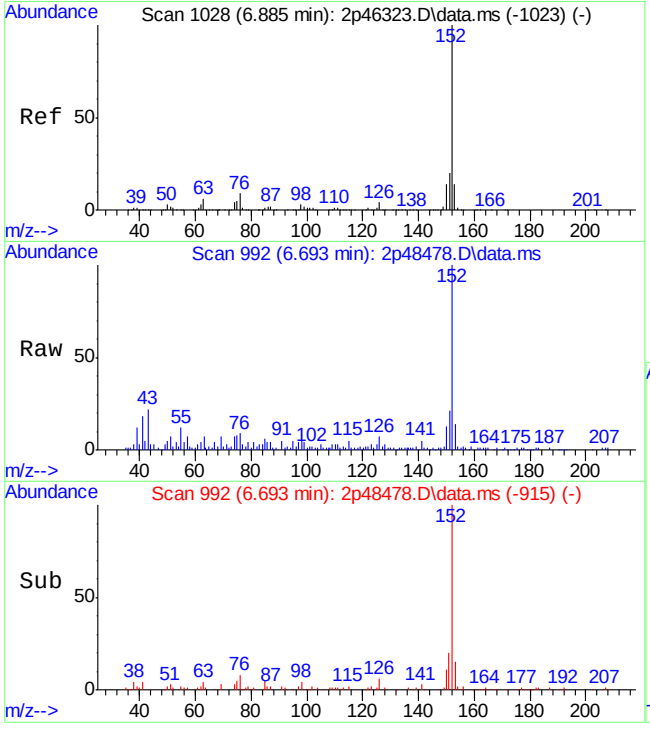


#53
Biphenyl
Concen: 1.28 ppm
RT: 6.340 min Scan# 926
Delta R.T. -0.091 min
Lab File: 2p48478.D
Acq: 11 May 2015 9:26 pm

Tgt Ion:154 Resp: 13354

Ion	Ratio	Lower	Upper
154	100		
153	37.2	12.1	72.1
155	13.5	0.0	43.1

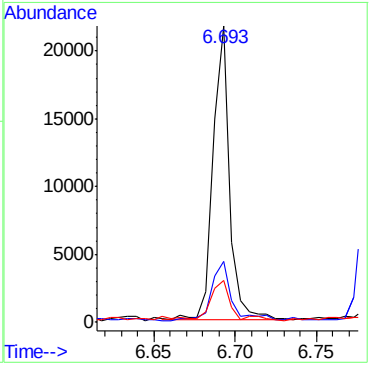




#56
Acenaphthylene
Concen: 1.18 ppm
RT: 6.693 min Scan# 992
Delta R.T. -0.086 min
Lab File: 2p48478.D
Acq: 11 May 2015 9:26 pm

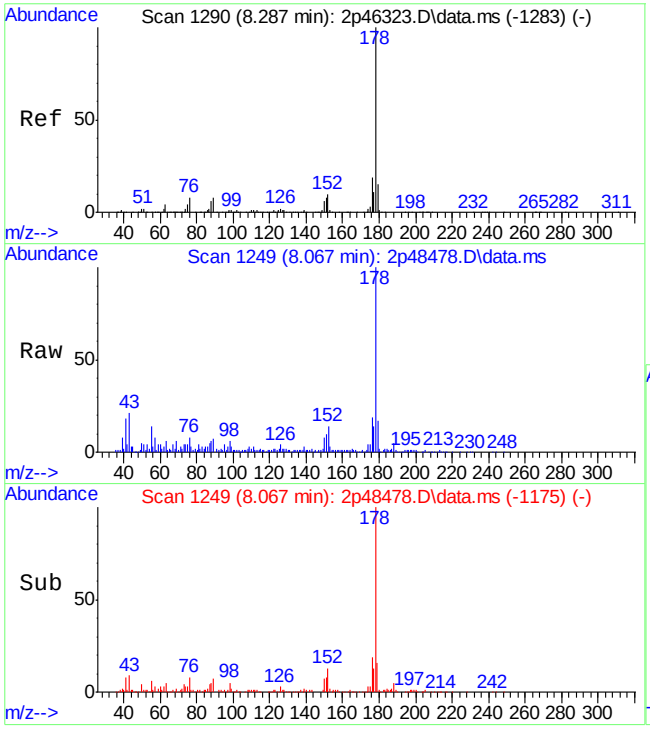
Tgt Ion:152 Resp: 15336

Ion	Ratio	Lower	Upper
152	100		
151	20.0	0.0	49.7
153	12.7	0.0	42.8



9.1.1

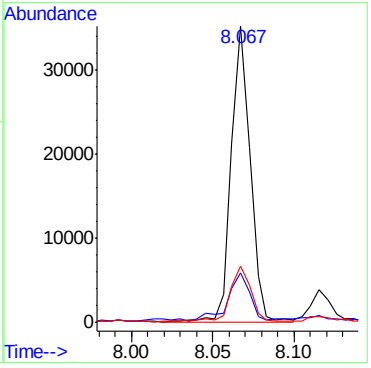
9

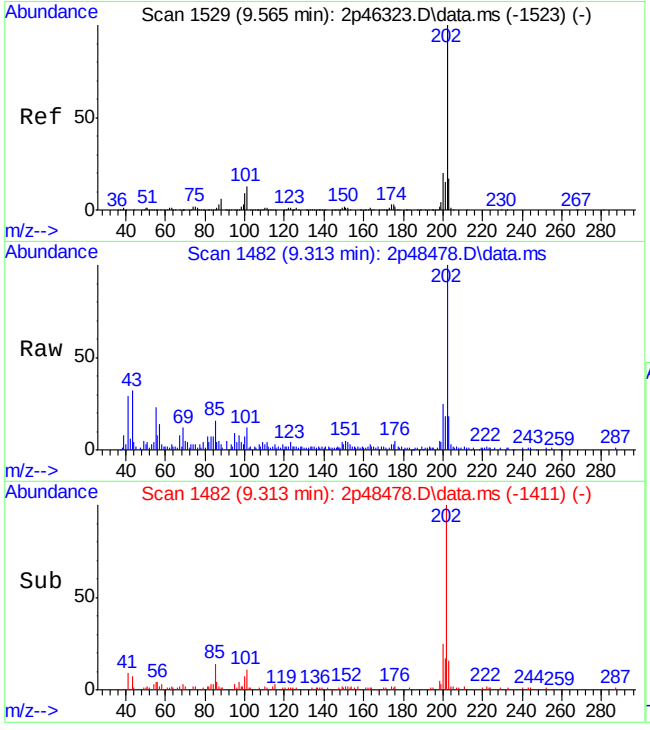


#77
Phenanthrene
Concen: 2.37 ppm
RT: 8.067 min Scan# 1249
Delta R.T. -0.102 min
Lab File: 2p48478.D
Acq: 11 May 2015 9:26 pm

Tgt Ion:178 Resp: 28444

Ion	Ratio	Lower	Upper
178	100		
179	15.8	0.0	45.4
176	18.8	0.0	48.5

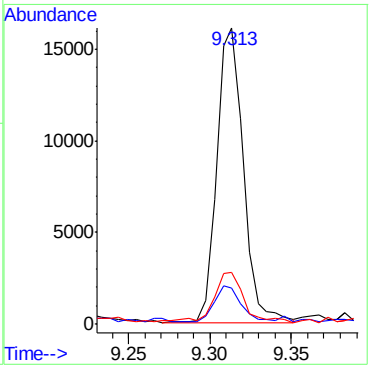




#81
Fluoranthene
Concen: 1.27 ppm
RT: 9.313 min Scan# 1482
Delta R.T. -0.118 min
Lab File: 2p48478.D
Acq: 11 May 2015 9:26 pm

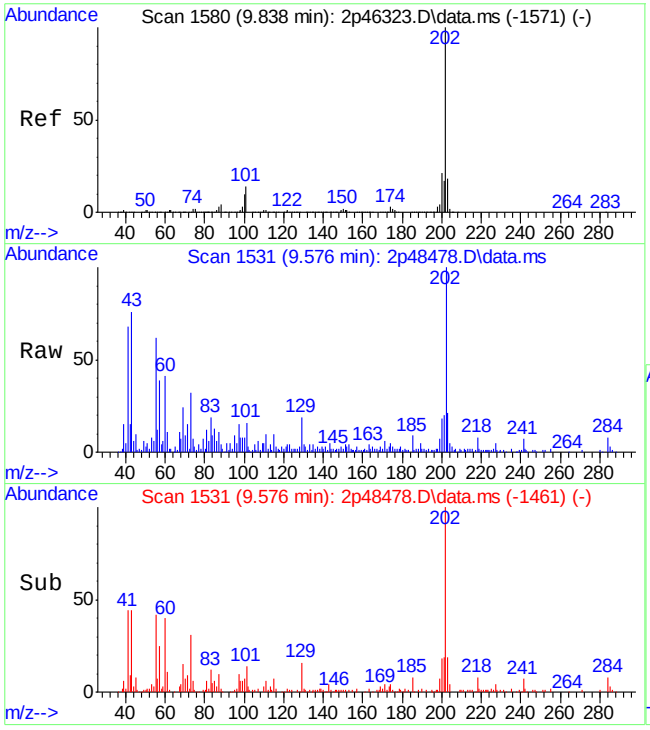
Tgt Ion:202 Resp: 18247

Ion	Ratio	Lower	Upper
202	100		
101	10.8	0.0	43.1
203	17.0	0.0	47.4



9.1.1

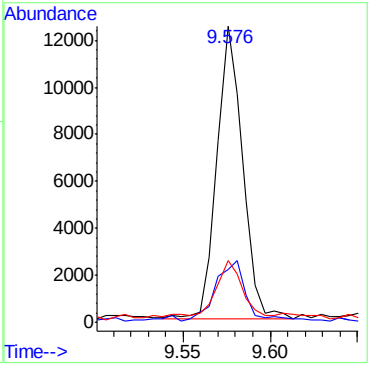
9

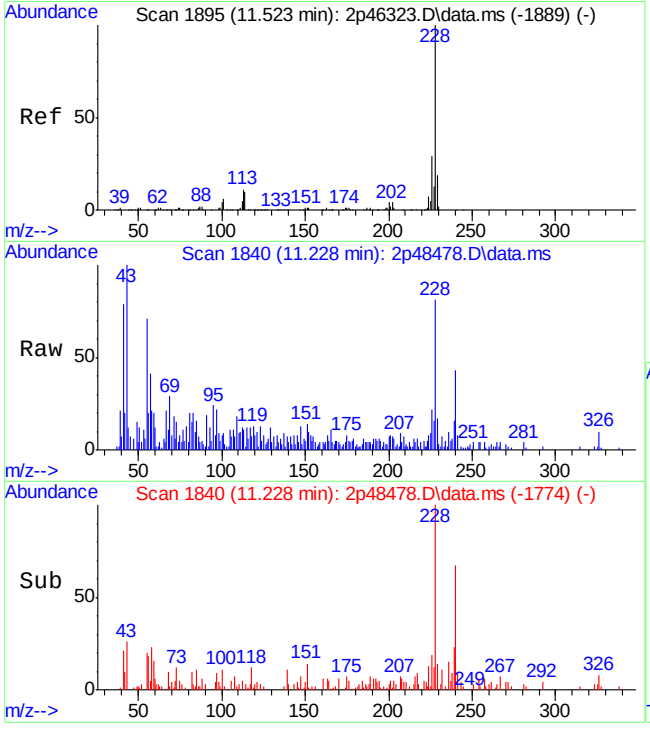


#84
Pyrene
Concen: 1.09 ppm
RT: 9.576 min Scan# 1531
Delta R.T. -0.123 min
Lab File: 2p48478.D
Acq: 11 May 2015 9:26 pm

Tgt Ion:202 Resp: 12928

Ion	Ratio	Lower	Upper
202	100		
200	16.8	0.0	51.0
203	19.0	0.0	47.4

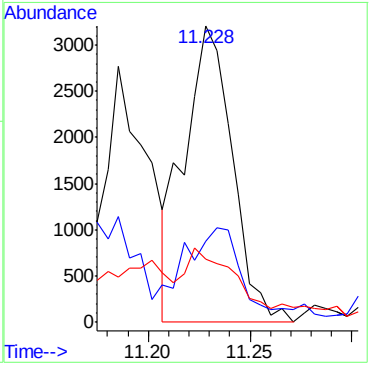


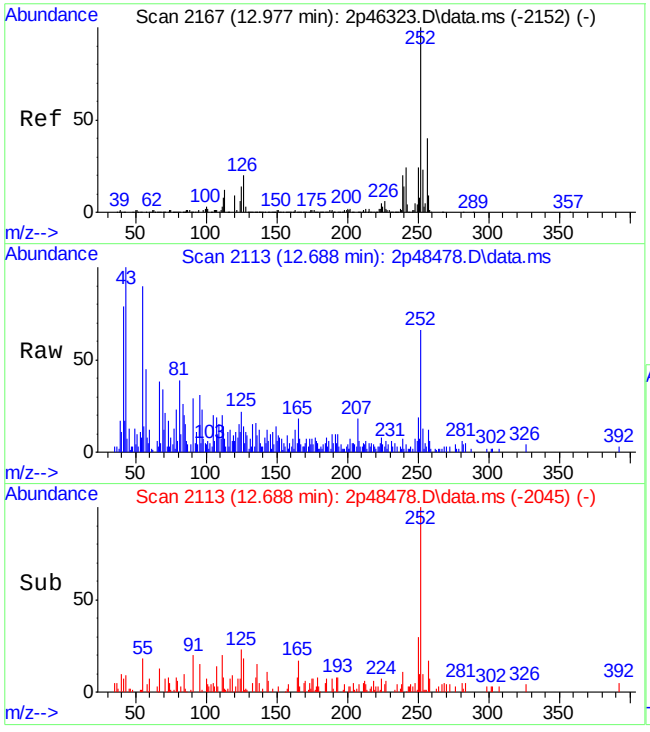


#90
Chrysene
Concen: 0.52 ppm
RT: 11.228 min Scan# 1840
Delta R.T. -0.144 min
Lab File: 2p48478.D
Acq: 11 May 2015 9:26 pm

Tgt Ion:228 Resp: 5263

Ion	Ratio	Lower	Upper
228	100		
226	23.4	0.0	58.8
229	12.7	0.0	49.1

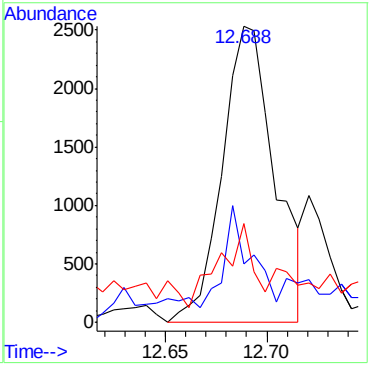




#94
Benzo[b]fluoranthene
Concen: 0.46 ppm m
RT: 12.688 min Scan# 2113
Delta R.T. -0.134 min
Lab File: 2p48478.D
Acq: 11 May 2015 9:26 pm

Tgt Ion:252 Resp: 4569

Ion	Ratio	Lower	Upper
252	100		
253	19.9	0.0	52.1
125	33.5	0.0	42.9



9.1.1

9

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48478.D
Acq On : 11 May 2015 9:26 pm
Operator : sarad
Sample : jb94209-1
Misc : op83787,e2p2069,30.3
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: 2p48478.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.430	3	8	13	rBV	5576136	4319247	48.51%	9.472%
2	1.472	13	16	18	rVV3	47937	60046	0.67%	0.132%
3	1.515	18	24	27	rVV2	288829	275448	3.09%	0.604%
4	1.542	27	29	34	rVB	132912	126449	1.42%	0.277%
5	1.654	37	50	52	rBV2	24880	48169	0.54%	0.106%
6	1.724	57	63	68	rVB2	90592	132617	1.49%	0.291%
7	1.820	78	81	88	rBV3	207214	265138	2.98%	0.581%
8	1.916	94	99	109	rVB	1056660	1169473	13.13%	2.565%
9	2.029	117	120	126	rVB2	35065	40614	0.46%	0.089%
10	2.109	126	135	141	rBV3	138641	213716	2.40%	0.469%
11	2.173	142	147	152	rBV	486493	595217	6.68%	1.305%
12	2.227	152	157	166	rVB	969115	1177590	13.23%	2.583%
13	2.366	170	183	190	rBV	522283	779275	8.75%	1.709%
14	2.451	190	199	208	rVB	6451853	8904085	100.00%	19.527%
15	2.558	212	219	220	rBV	354783	362845	4.08%	0.796%
16	2.574	220	222	231	rVB2	391429	398095	4.47%	0.873%
17	2.644	231	235	237	rBV2	29412	36272	0.41%	0.080%
18	2.670	237	240	246	rBV	381960	357002	4.01%	0.783%
19	2.745	251	254	263	rVB	139373	207774	2.33%	0.456%
20	2.815	263	267	276	rVB2	344698	421833	4.74%	0.925%
21	2.911	276	285	288	rBV	3096639	4469663	50.20%	9.802%
22	2.949	288	292	298	rVB	289662	305423	3.43%	0.670%
23	2.997	298	301	304	rBV	84409	73069	0.82%	0.160%
24	3.088	308	318	324	rBV3	123491	163501	1.84%	0.359%
25	3.168	324	333	337	rVB4	89993	126759	1.42%	0.278%
26	3.232	337	345	351	rVB	130946	146417	1.64%	0.321%
27	3.307	355	359	365	rBV	209572	318962	3.58%	0.700%
28	3.366	365	370	380	rVB2	338072	453198	5.09%	0.994%
29	3.532	397	401	408	rVB	385636	356774	4.01%	0.782%
30	3.612	408	416	421	rBV	2847246	2252789	25.30%	4.941%
31	3.655	421	424	432	rVB	309883	278423	3.13%	0.611%
32	3.772	443	446	450	rBV	43035	42609	0.48%	0.093%
33	3.826	450	456	461	rBV2	94649	123836	1.39%	0.272%
34	3.911	464	472	475	rBV	337554	351402	3.95%	0.771%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48478.D
Acq On : 11 May 2015 9:26 pm
Operator : sarad
Sample : jb94209-1
Misc : op83787,e2p2069,30.3
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

35	3.938	475	477	484	rVV	307045	310371	3.49%	0.681%
36	3.997	484	488	492	rVB2	99392	108569	1.22%	0.238%
37	4.056	492	499	504	rBV5	41922	45940	0.52%	0.101%
38	4.152	510	517	524	rBV4	271909	541260	6.08%	1.187%
39	4.200	524	526	530	rVV3	142795	152682	1.71%	0.335%
40	4.227	530	531	535	rVB2	59650	36506	0.41%	0.080%
41	4.280	537	541	545	rBV2	75835	107000	1.20%	0.235%
42	4.318	545	548	553	rVB	1332602	907689	10.19%	1.991%
43	4.387	555	561	563	rVB4	41258	60611	0.68%	0.133%
44	4.457	568	574	578	rBV4	65344	95297	1.07%	0.209%
45	4.526	584	587	594	rVB2	146899	153945	1.73%	0.338%
46	4.596	597	600	610	rVB	302131	244525	2.75%	0.536%
47	4.666	610	613	616	rBV3	91781	93642	1.05%	0.205%
48	4.698	616	619	623	rVV	103604	128740	1.45%	0.282%
49	4.730	623	625	629	rVB4	48132	39405	0.44%	0.086%
50	4.789	629	636	642	rBV	652642	638761	7.17%	1.401%
51	4.837	642	645	648	rVB2	53280	49051	0.55%	0.108%
52	4.869	648	651	654	rVB2	44710	38716	0.43%	0.085%
53	4.954	654	667	672	rBV2	358838	511597	5.75%	1.122%
54	5.008	673	677	685	rVB3	79714	115661	1.30%	0.254%
55	5.061	685	687	691	rBV3	59184	56573	0.64%	0.124%
56	5.168	700	707	711	rBV4	95687	111908	1.26%	0.245%
57	5.232	711	719	726	rVB3	95311	166483	1.87%	0.365%
58	5.291	726	730	733	rBV	114518	115305	1.29%	0.253%
59	5.372	738	745	754	rVB2	1600960	1463755	16.44%	3.210%
60	5.585	780	785	793	rBV4	74484	151024	1.70%	0.331%
61	5.725	803	811	814	rBV8	21986	53280	0.60%	0.117%
62	5.767	816	819	823	rVB	62812	49094	0.55%	0.108%
63	5.853	830	835	839	rBV5	35304	46559	0.52%	0.102%
64	5.890	839	842	848	rVB2	72882	56794	0.64%	0.125%
65	5.949	848	853	858	rBV2	142438	159573	1.79%	0.350%
66	6.035	864	869	873	rBV3	48605	54514	0.61%	0.120%
67	6.217	899	903	908	rBV6	72568	126720	1.42%	0.278%
68	6.259	908	911	917	rVB	1299144	983719	11.05%	2.157%
69	6.356	924	929	934	rVV3	120290	163075	1.83%	0.358%
70	6.409	938	939	947	rVB4	62064	69660	0.78%	0.153%
71	6.468	947	950	955	rBV4	30267	41549	0.47%	0.091%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48478.D
Acq On : 11 May 2015 9:26 pm
Operator : sarad
Sample : jb94209-1
Misc : op83787,e2p2069,30.3
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

72	6.639	975	982	986	rVB6	26260	39031	0.44%	0.086%
73	6.693	987	992	995	rVB	56932	51343	0.58%	0.113%
74	6.805	1005	1013	1019	rVV	1770688	1258605	14.14%	2.760%
75	6.858	1019	1023	1028	rVB5	34482	46022	0.52%	0.101%
76	7.051	1056	1059	1062	rBV	83924	70069	0.79%	0.154%
77	7.190	1078	1085	1095	rVB3	73799	118376	1.33%	0.260%
78	7.260	1095	1098	1104	rVB3	49911	55258	0.62%	0.121%
79	7.345	1108	1114	1116	rBV7	28312	40759	0.46%	0.089%
80	7.468	1129	1137	1142	rBV2	388927	336924	3.78%	0.739%
81	7.581	1156	1158	1164	rVB	97280	93797	1.05%	0.206%
82	7.741	1186	1188	1197	rVB3	29266	42018	0.47%	0.092%
83	7.821	1197	1203	1208	rBV	74920	84570	0.95%	0.185%
84	7.971	1228	1231	1233	rBV	48316	41654	0.47%	0.091%
85	8.046	1239	1245	1253	rBV	1638514	1350381	15.17%	2.961%
86	8.222	1274	1278	1286	rBV10	19565	36233	0.41%	0.079%
87	8.377	1304	1307	1316	rVB2	47611	70274	0.79%	0.154%
88	8.570	1339	1343	1349	rBV7	18699	35896	0.40%	0.079%
89	8.650	1350	1358	1367	rBV	425646	527680	5.93%	1.157%
90	8.805	1380	1387	1390	rBV2	29769	39815	0.45%	0.087%
91	8.837	1390	1393	1400	rVV3	32001	51019	0.57%	0.112%
92	9.313	1479	1482	1489	rVB3	56209	80141	0.90%	0.176%
93	9.474	1501	1512	1522	rBV8	36053	109367	1.23%	0.240%
94	9.565	1523	1529	1543	rVV2	219513	321911	3.62%	0.706%
95	9.800	1568	1573	1582	rVV	643158	679313	7.63%	1.490%
96	9.966	1599	1604	1617	rVB	22173	38702	0.43%	0.085%
97	10.843	1763	1768	1777	rVB5	25421	38320	0.43%	0.084%
98	11.196	1824	1834	1852	rVB	931446	1276428	14.34%	2.799%
99	11.335	1853	1860	1865	rBV3	28029	47078	0.53%	0.103%
100	13.181	2198	2205	2214	rBV	751691	1014126	11.39%	2.224%

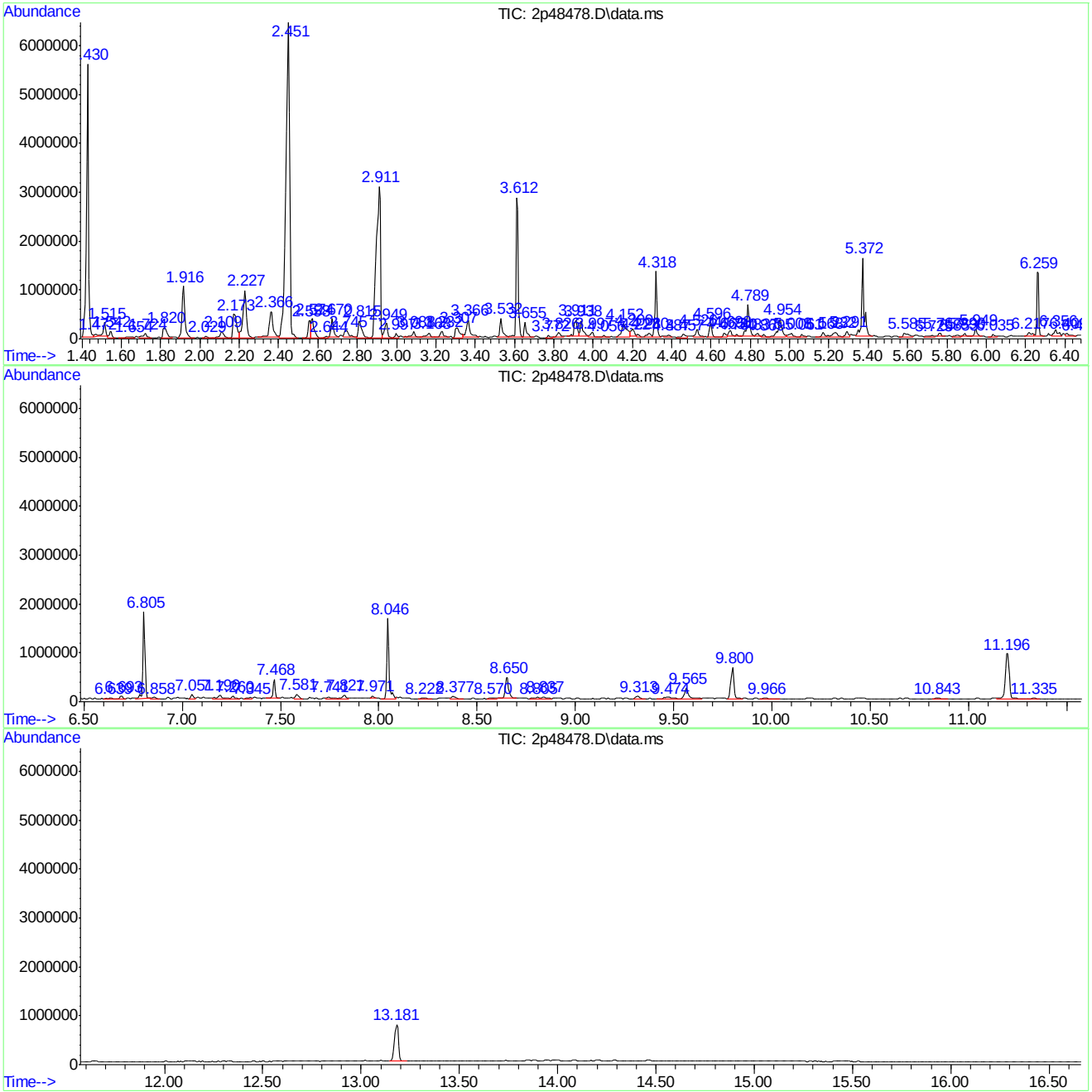
Sum of corrected areas: 45598393

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48478.D
Acq On : 11 May 2015 9:26 pm
Operator : sarad
Sample : jb94209-1
Misc : op83787,e2p2069,30.3
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48478.D
Acq On : 11 May 2015 9:26 pm
Operator : sarad
Sample : jb94209-1
Misc : op83787,e2p2069,30.3
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

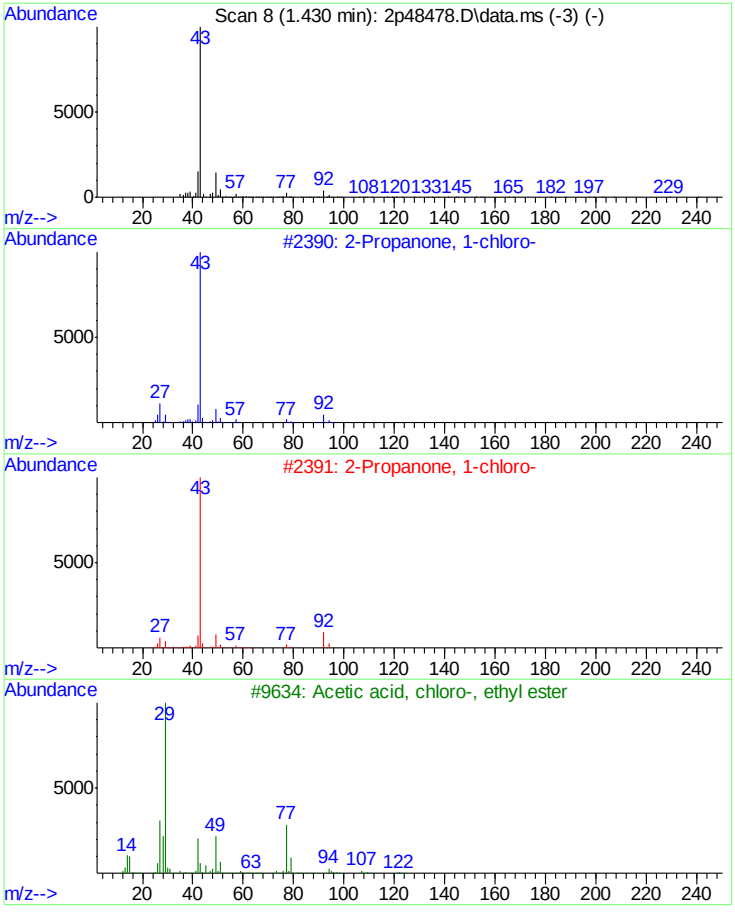
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

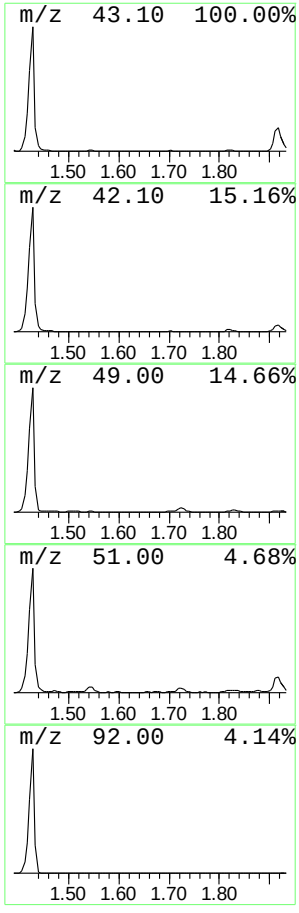
****

Peak Number 1 system artifact Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.430	190.34 ppm	4319250	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanone, 1-chloro-	92	C3H5ClO	000078-95-5	72
2	2-Propanone, 1-chloro-	92	C3H5ClO	000078-95-5	9
3	Acetic acid, chloro-, ethyl ester	122	C4H7ClO2	000105-39-5	9
4	Chloroacetamidine	92	C2H5ClN2	020846-52-0	9
5	2-Propanone, 1-chloro-	92	C3H5ClO	000078-95-5	9





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48478.D
Acq On : 11 May 2015 9:26 pm
Operator : sarad
Sample : jb94209-1
Misc : op83787,e2p2069,30.3
ALS Vial : 12 Sample Multiplier: 1

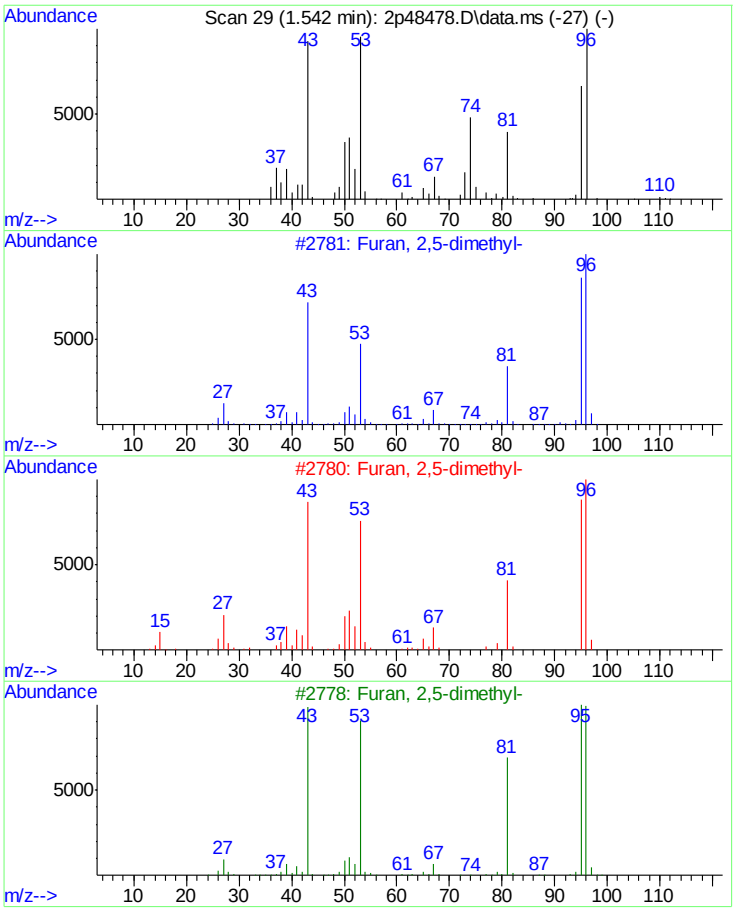
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

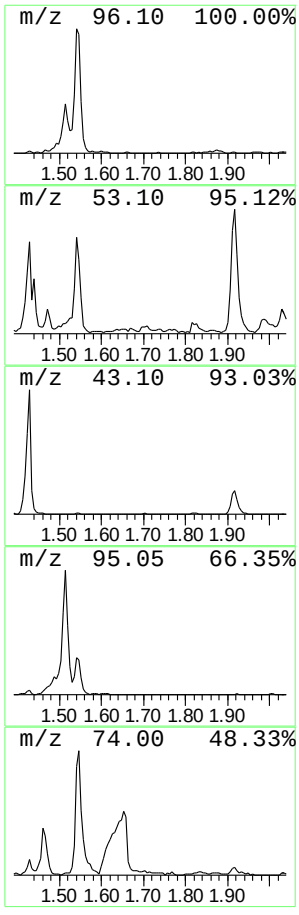
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 3 system artifact Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.542	5.57 ppm	126449	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	64
2	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	43
3	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	42
4	3-Butyn-2-one	68	C4H4O	001423-60-5	40
5	1-Butyne, 3-chloro-	88	C4H5Cl	021020-24-6	38





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48478.D
Acq On : 11 May 2015 9:26 pm
Operator : sarad
Sample : jb94209-1
Misc : op83787,e2p2069,30.3
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

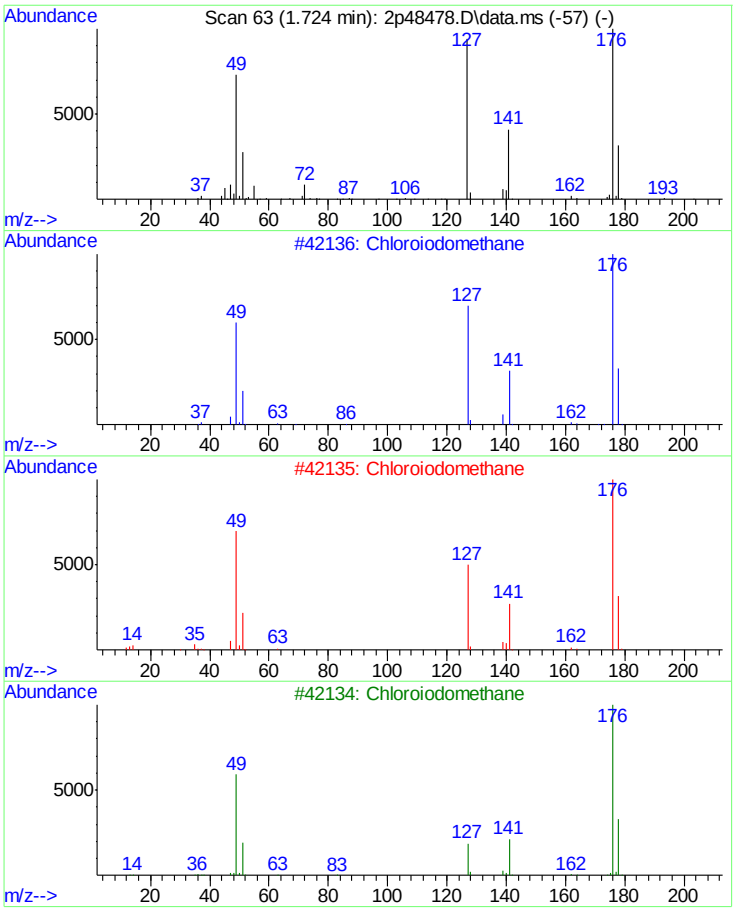
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

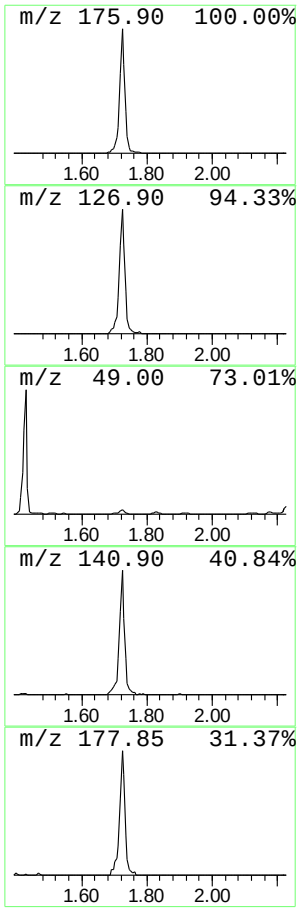
****

Peak Number 4 system artifact Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.724	5.84 ppm	132617	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chloroiodomethane	176	CH2ClI	000593-71-5	96
2	Chloroiodomethane	176	CH2ClI	000593-71-5	90
3	Chloroiodomethane	176	CH2ClI	000593-71-5	76
4	Methylene Chloride	84	CH2Cl2	000075-09-2	25
5	Chloromethylphosphonic dichloride	166	CH2Cl3OP	001983-26-2	17





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48478.D
Acq On    : 11 May 2015   9:26 pm
Operator  : sarad
Sample    : jb94209-1
Misc      : op83787,e2p2069,30.3
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```
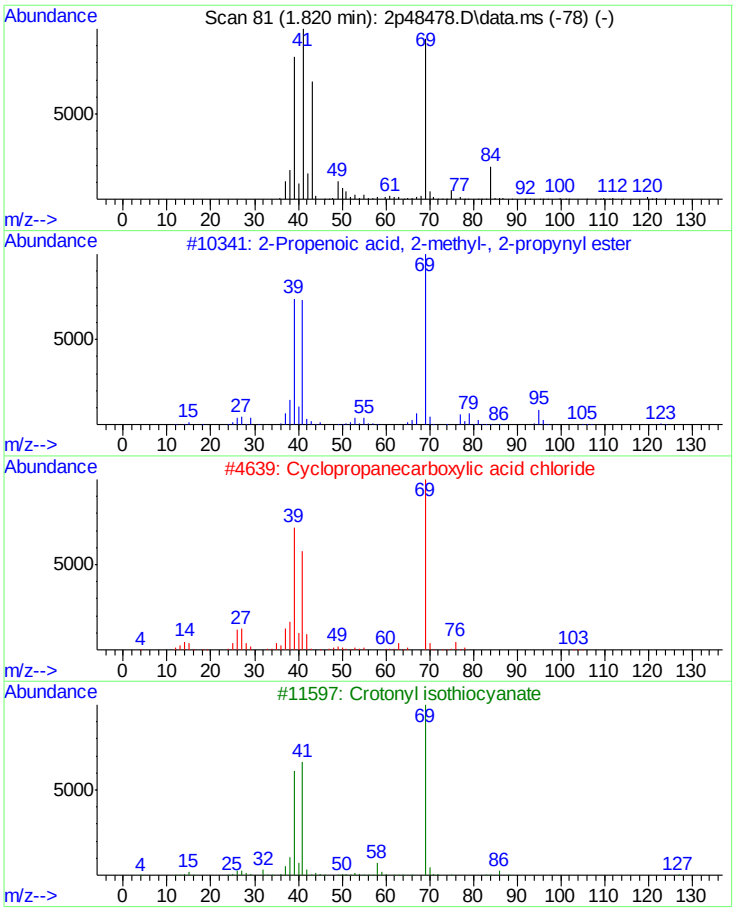
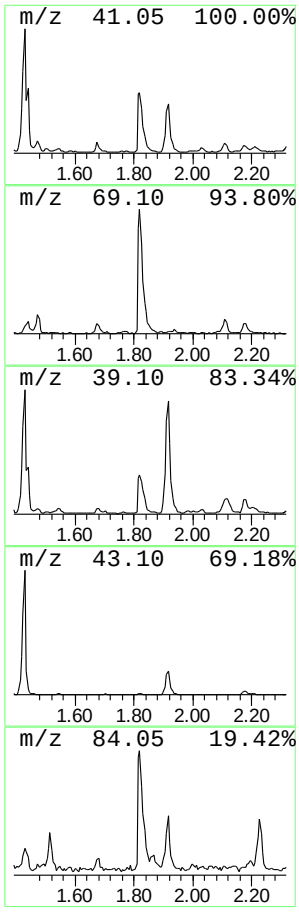

****

Peak Number 5 system artifact Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.820	11.68 ppm	265138	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propenoic acid, 2-methyl-, 2-p...	124	C7H8O2	013861-22-8	78
2	Cyclopropanecarboxylic acid chlo...	104	C4H5ClO	004023-34-1	78
3	Crotonyl isothiocyanate	127	C5H5NOS	060034-28-8	78
4	2-Butenal	70	C4H6O	004170-30-3	64
5	4-Methyl-5H-furan-2-one	98	C5H6O2	006124-79-4	64





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48478.D
Acq On : 11 May 2015 9:26 pm
Operator : sarad
Sample : jb94209-1
Misc : op83787,e2p2069,30.3
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

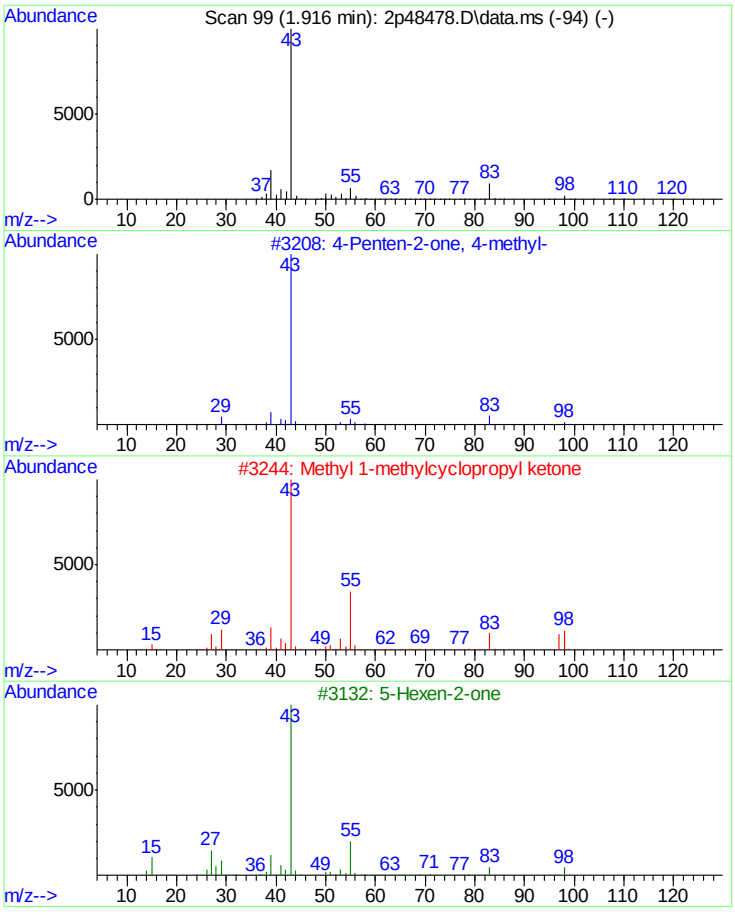
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

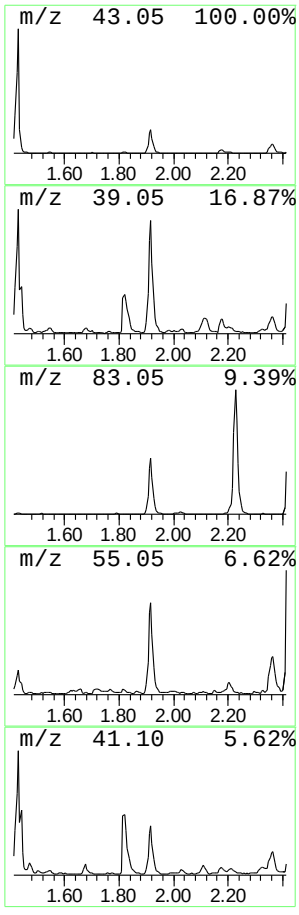
****

Peak Number 6 system artifact Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.916	51.54 ppm	1169470	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Penten-2-one, 4-methyl-	98	C6H10O	003744-02-3	64
2	Methyl 1-methylcyclopropyl ketone	98	C6H10O	001567-75-5	50
3	5-Hexen-2-one	98	C6H10O	000109-49-9	45
4	4-Penten-2-one, 4-methyl-	98	C6H10O	003744-02-3	38
5	2-Vinylethyl acetate	114	C6H10O2	001576-84-7	33





Library Search Compound Report

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Data File : 2p48478.D
Acq On    : 11 May 2015   9:26 pm
Operator  : sarad
Sample    : jb94209-1
Misc      : op83787,e2p2069,30.3
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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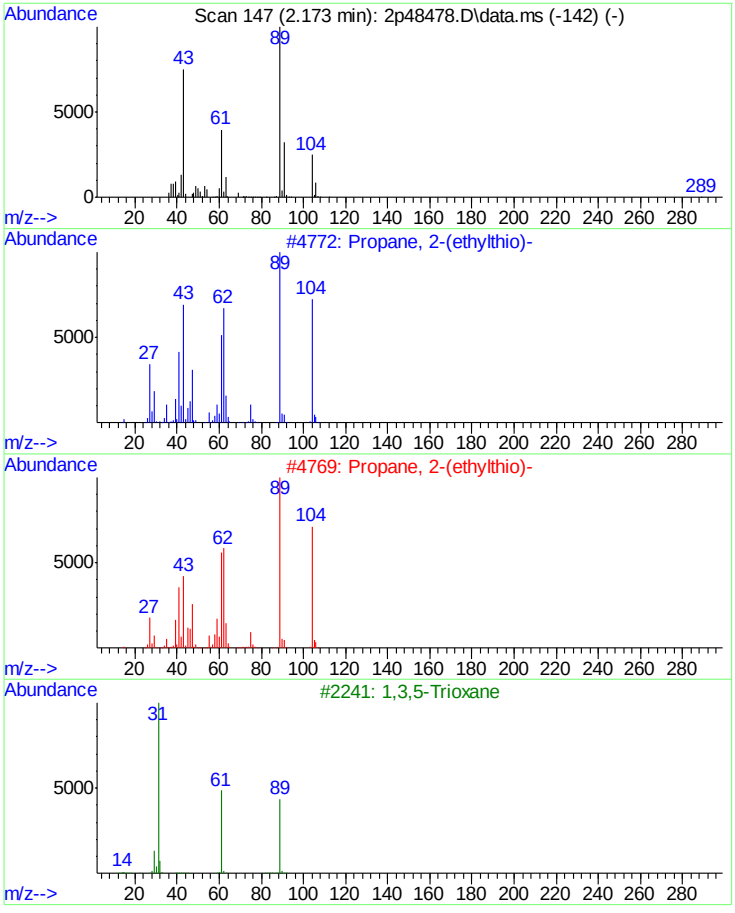
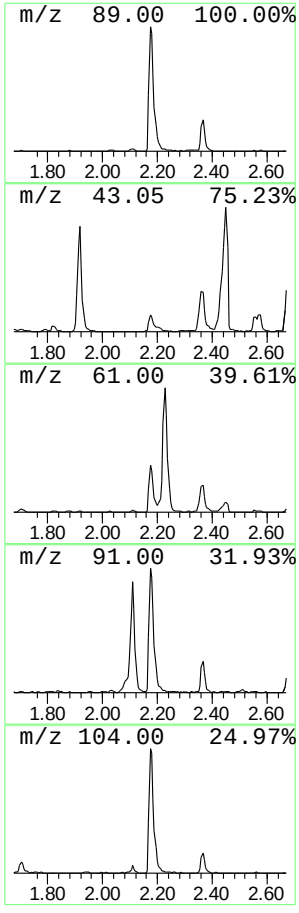
Peak Number 8 system artifact Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.173	26.23 ppm	595217	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane, 2-(ethylthio)-	104	C5H12S	005145-99-3	43
2	Propane, 2-(ethylthio)-	104	C5H12S	005145-99-3	43
3	1,3,5-Trioxane	90	C3H6O3	000110-88-3	7
4	1,3,5-Trioxane	90	C3H6O3	000110-88-3	7
5	1,3,5-Trioxane	90	C3H6O3	000110-88-3	5





Library Search Compound Report

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Sample    : jb94209-1
Misc      : op83787,e2p2069,30.3
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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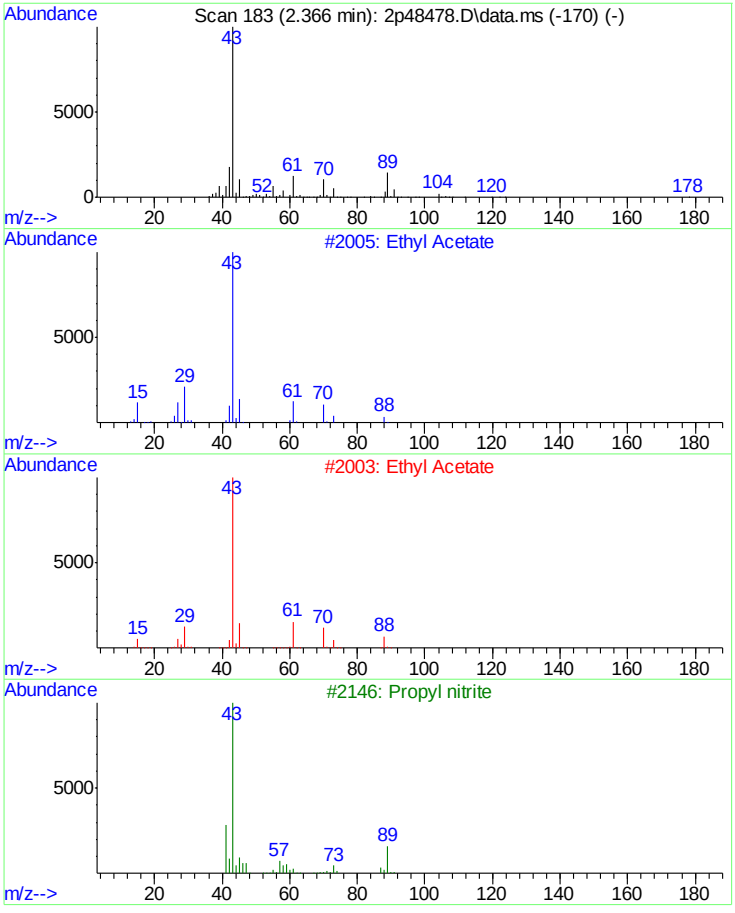
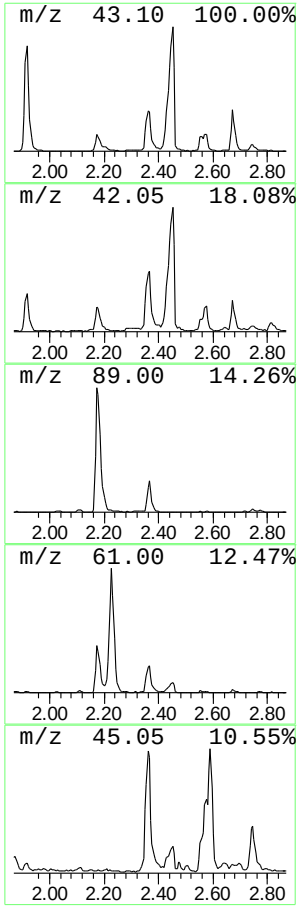
Peak Number 10 system artifact Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.366	34.34 ppm	779275	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethyl Acetate	88	C4H8O2	000141-78-6	58
2	Ethyl Acetate	88	C4H8O2	000141-78-6	46
3	Propyl nitrite	89	C3H7NO2	000543-67-9	43
4	Ethyl Acetate	88	C4H8O2	000141-78-6	38
5	2-Butanone, 4-hydroxy-	88	C4H8O2	000590-90-9	37





Library Search Compound Report

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Data File : 2p48478.D
Acq On : 11 May 2015 9:26 pm
Operator : sarad
Sample : jb94209-1
Misc : op83787,e2p2069,30.3
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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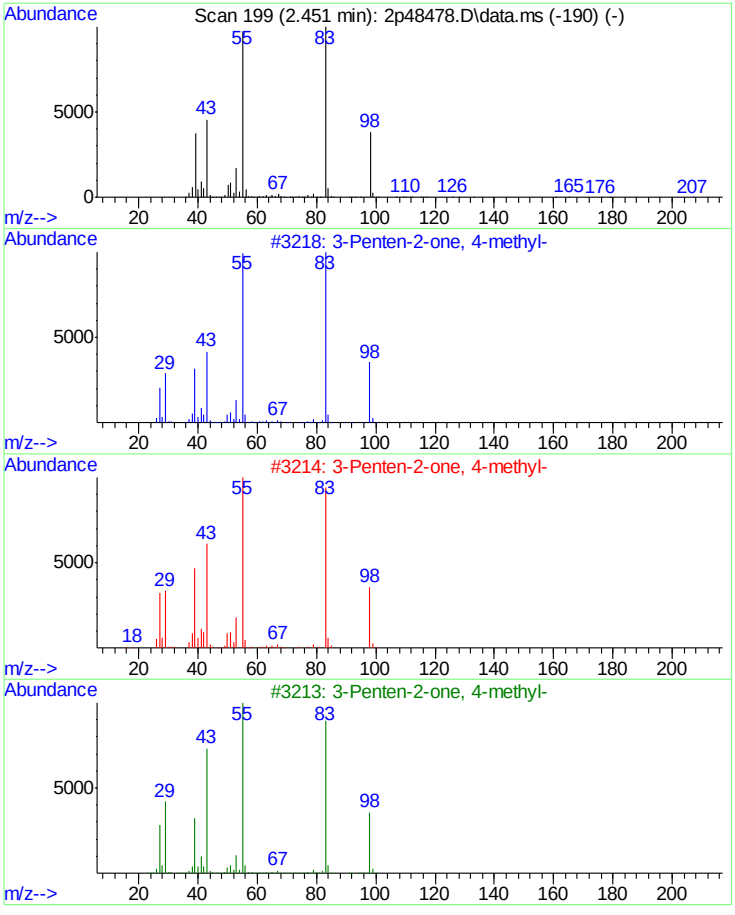
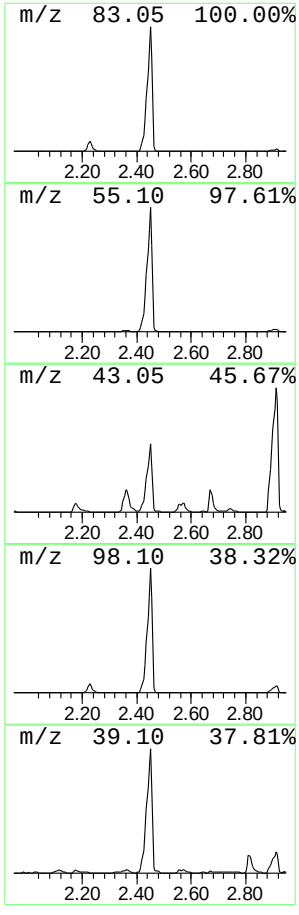
Peak Number 11 system artifact Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.451	392.38 ppm	8904090	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Penten-2-one, 4-methyl-	98	C6H10O	000141-79-7	95
2	3-Penten-2-one, 4-methyl-	98	C6H10O	000141-79-7	94
3	3-Penten-2-one, 4-methyl-	98	C6H10O	000141-79-7	91
4	3-Hexen-2-one	98	C6H10O	000763-93-9	87
5	2-Pentene, 3,4-dimethyl-, (Z)-	98	C7H14	004914-91-4	86





Library Search Compound Report

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Acq On : 11 May 2015 9:26 pm
Operator : sarad
Sample : jb94209-1
Misc : op83787,e2p2069,30.3
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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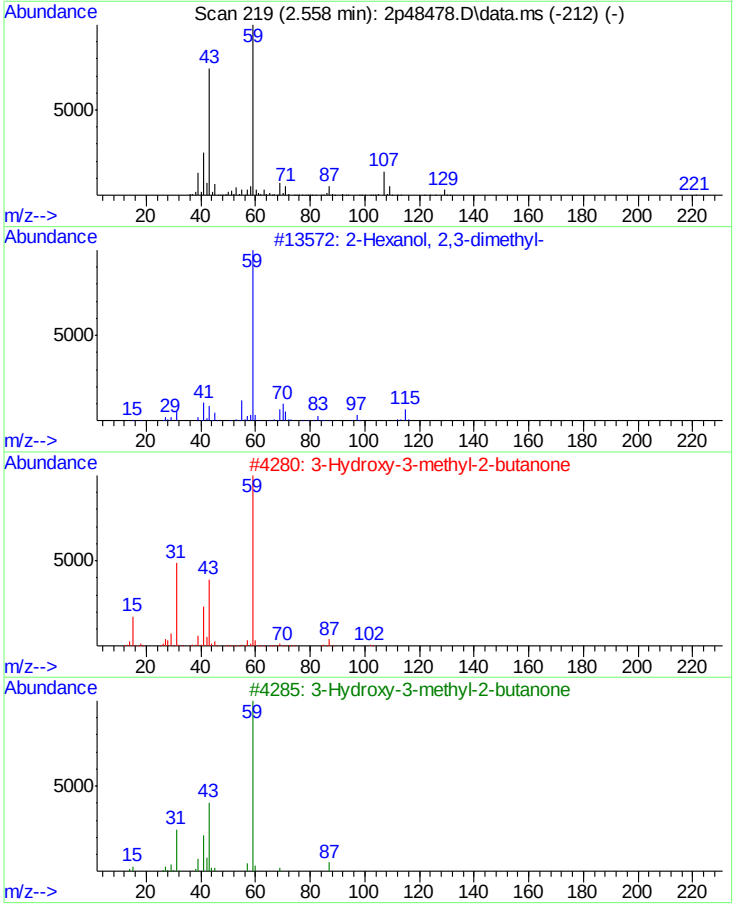
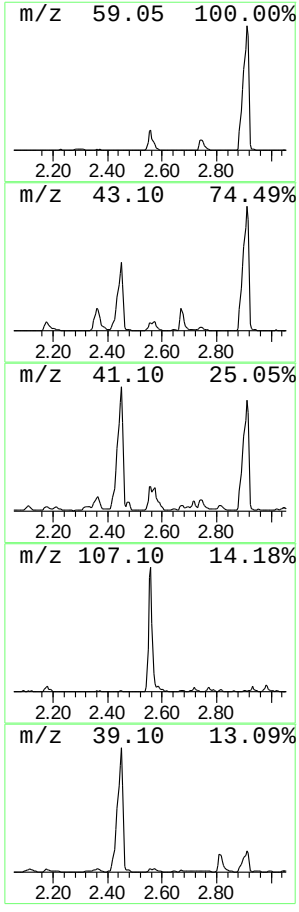
Peak Number 12 system artifact Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.558	15.99 ppm	362845	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Hexanol, 2,3-dimethyl-	130	C8H18O	019550-03-9	42
2	3-Hydroxy-3-methyl-2-butanone	102	C5H10O2	000115-22-0	40
3	3-Hydroxy-3-methyl-2-butanone	102	C5H10O2	000115-22-0	40
4	2-Pentanol, 3-chloro-2-methyl-	136	C6H13ClO	074685-49-7	39
5	6-Nitrohexan-2-ol	147	C6H13NO3	062224-53-7	38





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
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Acq On : 11 May 2015 9:26 pm
Operator : sarad
Sample : jb94209-1
Misc : op83787,e2p2069,30.3
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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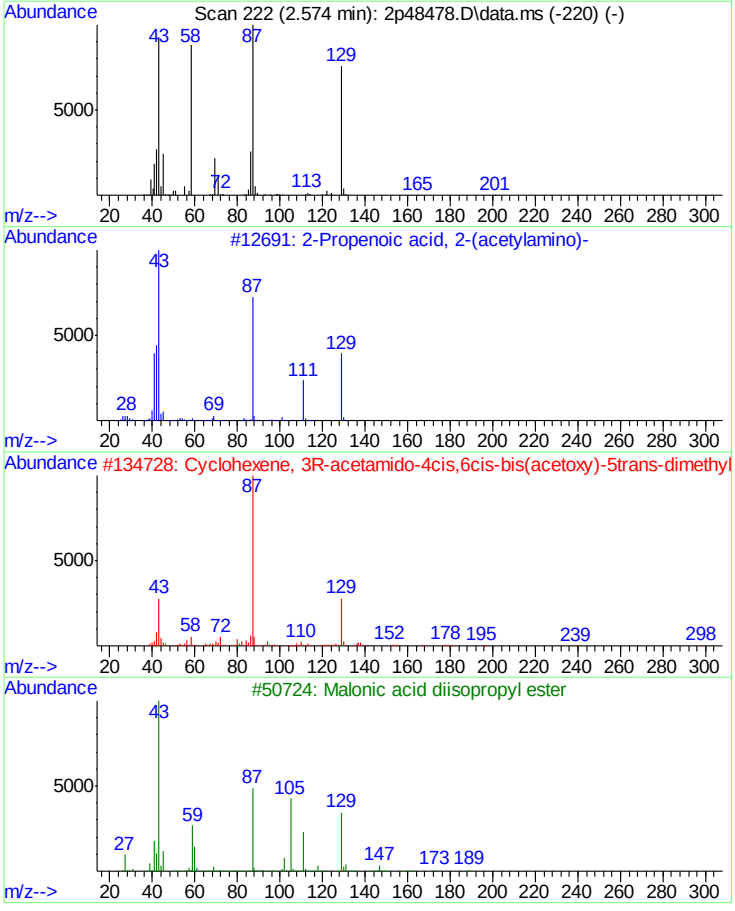
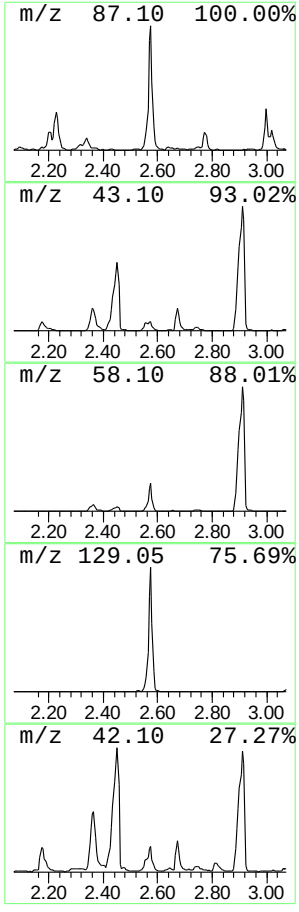
Peak Number 13 system artifact Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.574	17.54 ppm	398095	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propenoic acid, 2-(acetylamino)-	129	C5H7NO3	005429-56-1	32
2	Cyclohexene, 3R-acetamido-4cis,6...	298	C14H22N2O5	1000153-71-4	28
3	Malonic acid diisopropyl ester	188	C9H16O4	013195-64-7	28
4	Butanoic acid, 3-chloro-	122	C4H7ClO2	001951-12-8	25
5	1,3-Dioxolane, 2,2-dimethyl-	102	C5H10O2	002916-31-6	14





Library Search Compound Report

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Operator  : sarad
Sample    : jb94209-1
Misc      : op83787,e2p2069,30.3
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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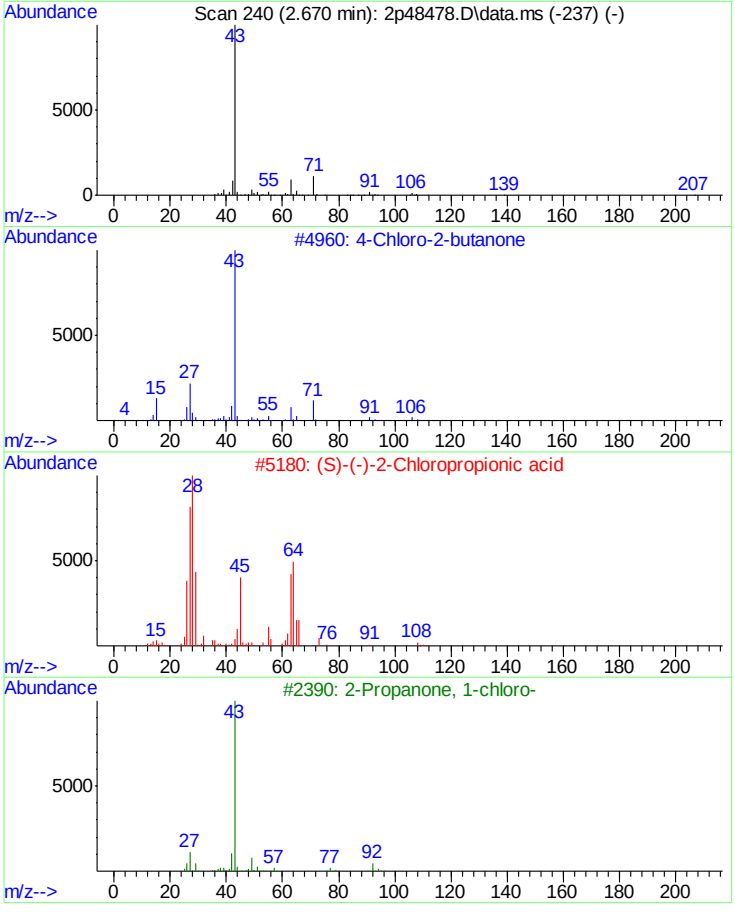
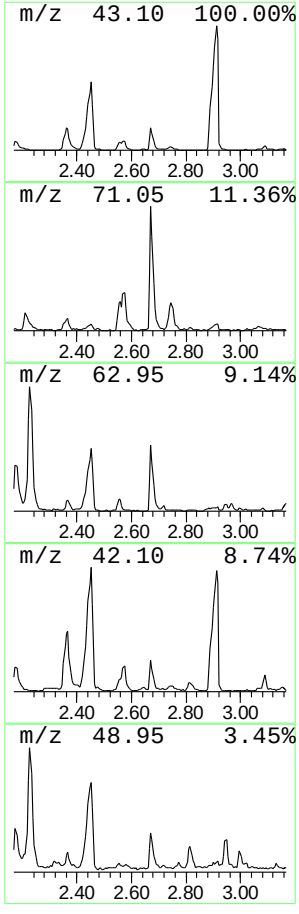
Peak Number 14 system artifact Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.670	15.73 ppm	357002	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Chloro-2-butanone	106	C4H7ClO	006322-49-2	50
2	(S)-(-)-2-Chloropropionic acid	108	C3H5ClO2	029617-66-1	9
3	2-Propanone, 1-chloro-	92	C3H5ClO	000078-95-5	9
4	1-Propanol, 3-chloro-	94	C3H7ClO	000627-30-5	9
5	Hydroxylamine, O-(2-methylpropyl)-	89	C4H11NO	005618-62-2	4





Library Search Compound Report

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Sample    : jb94209-1
Misc      : op83787,e2p2069,30.3
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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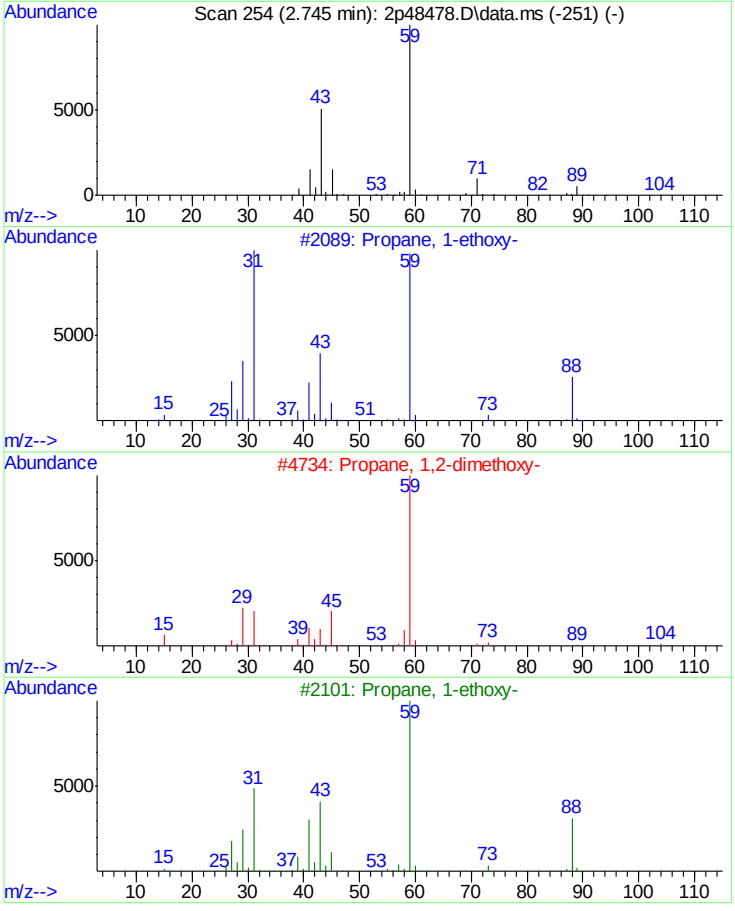
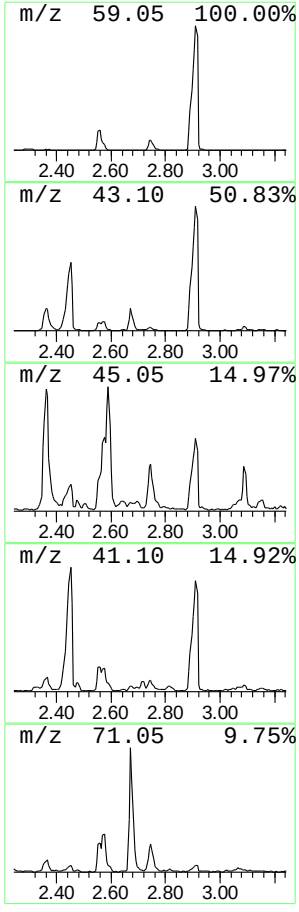
Peak Number 15 system artifact Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.745	9.16 ppm	207774	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane, 1-ethoxy-	88	C5H12O	000628-32-0	50
2	Propane, 1,2-dimethoxy-	104	C5H12O2	007778-85-0	50
3	Propane, 1-ethoxy-	88	C5H12O	000628-32-0	50
4	Propane, 1-ethoxy-	88	C5H12O	000628-32-0	40
5	Propanoic acid, 2-hydroxy-2-meth...	132	C6H12O3	000080-55-7	39





Library Search Compound Report

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Acq On : 11 May 2015 9:26 pm
Operator : sarad
Sample : jb94209-1
Misc : op83787,e2p2069,30.3
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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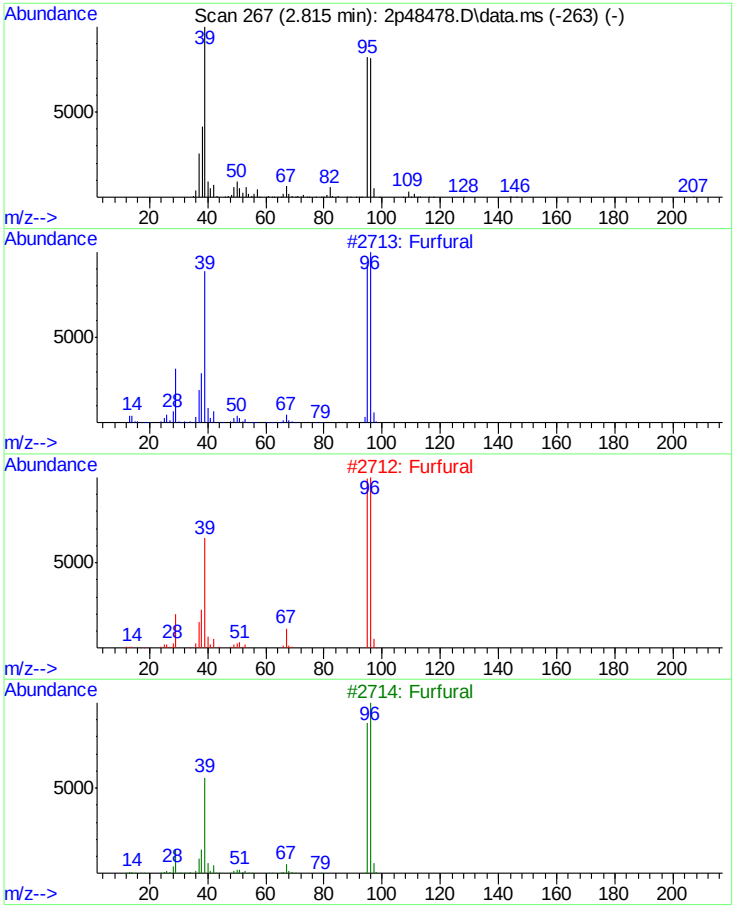
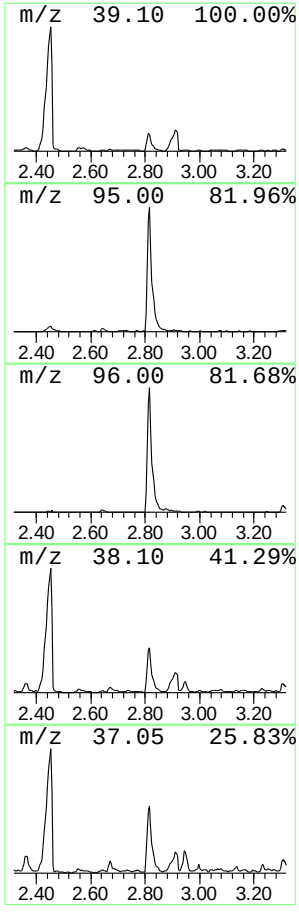
Peak Number 16 Furfural Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.815	18.59 ppm	421833	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furfural	96	C5H4O2	000098-01-1	95
2	Furfural	96	C5H4O2	000098-01-1	91
3	Furfural	96	C5H4O2	000098-01-1	72
4	3-Furaldehyde	96	C5H4O2	000498-60-2	64
5	Cyclopropene	40	C3H4	002781-85-3	45





Library Search Compound Report

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Sample    : jb94209-1
Misc      : op83787,e2p2069,30.3
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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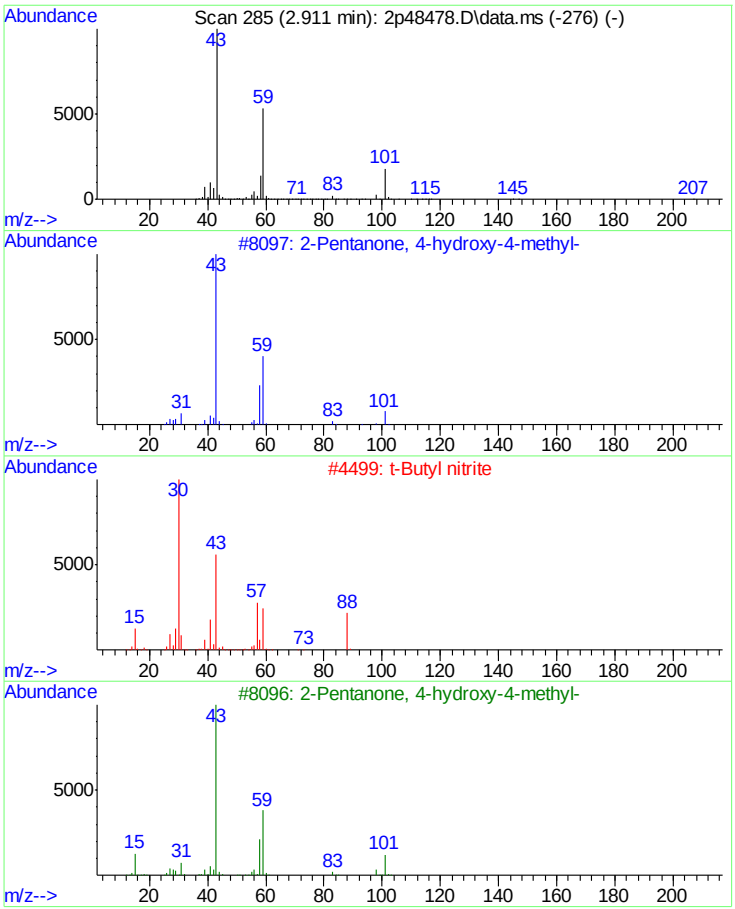
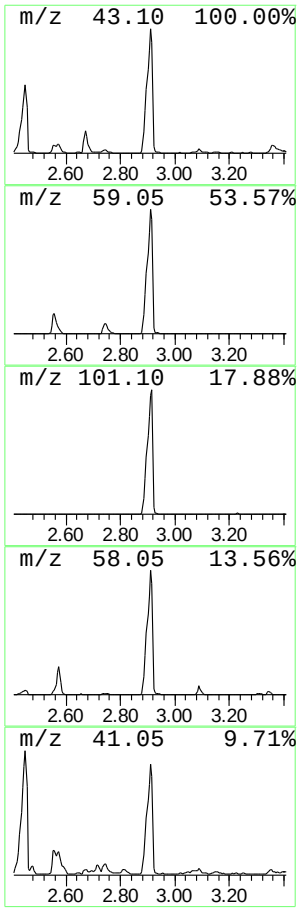
Peak Number 17 system artifact/aldol-conde... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.911	196.97 ppm	4469660	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	45
2	t-Butyl nitrite	103	C4H9NO2	000540-80-7	39
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	38
4	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	25
5	1-Butene, 4-ethoxy-	100	C6H12O	044611-46-3	23





Library Search Compound Report

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Sample    : jb94209-1
Misc      : op83787,e2p2069,30.3
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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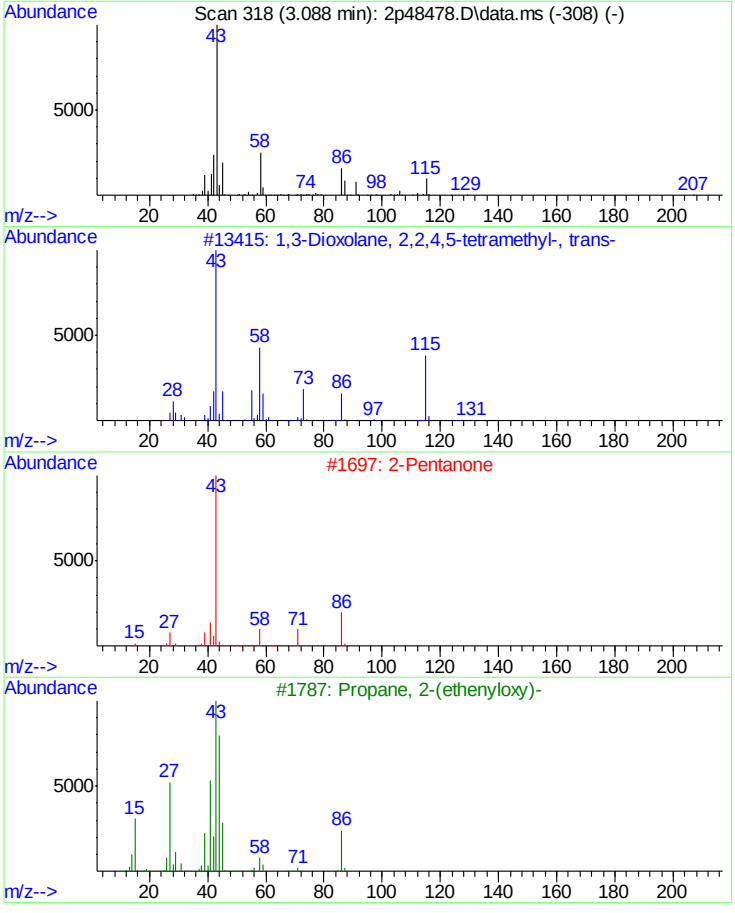
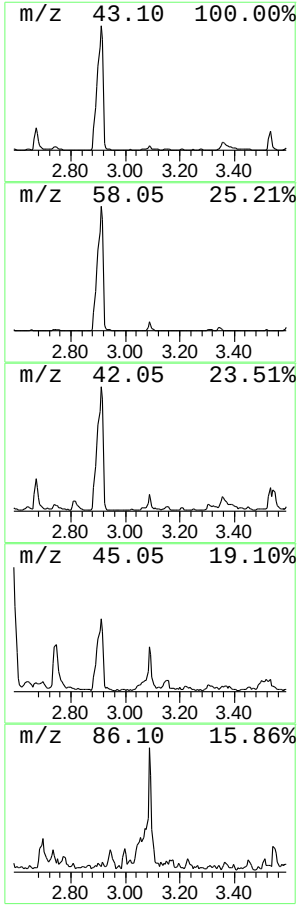
Peak Number 19 system artifact Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.088	7.21 ppm	163501	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Dioxolane, 2,2,4,5-tetrameth...	130	C7H14O2	017226-66-3	39
2	2-Pentanone	86	C5H10O	000107-87-9	12
3	Propane, 2-(ethenyloxy)-	86	C5H10O	000926-65-8	9
4	Acetic acid ethenyl ester	86	C4H6O2	000108-05-4	9
5	3-Pyrrolidinol	87	C4H9NO	040499-83-0	9





Library Search Compound Report

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Misc : op83787,e2p2069,30.3
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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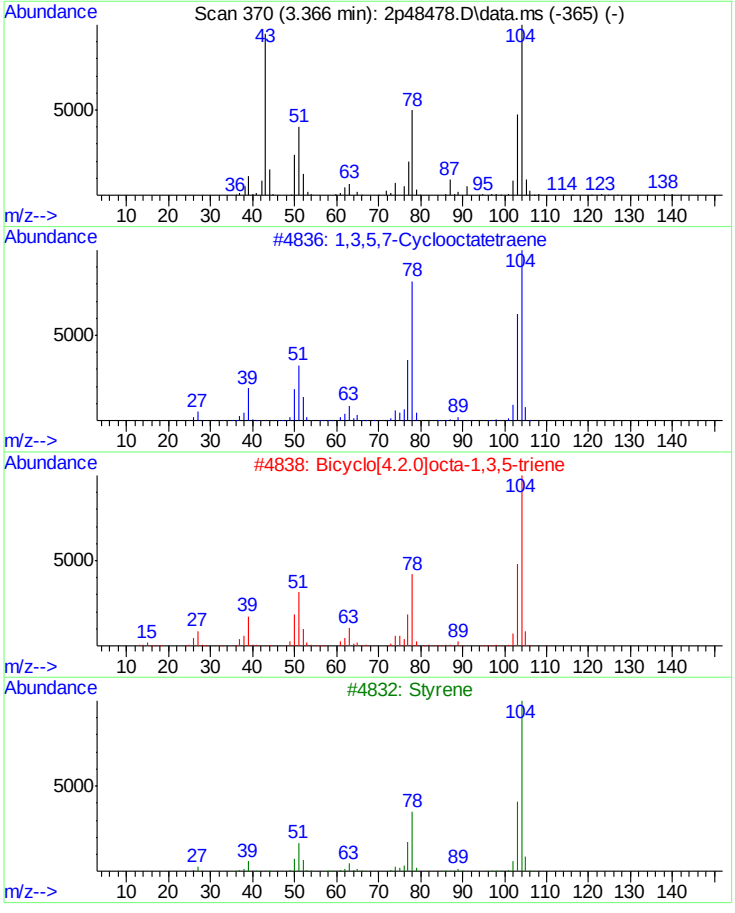
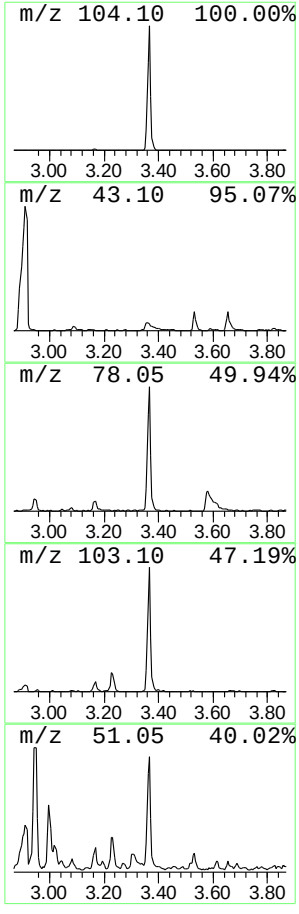
Peak Number 22 system artifact Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.366	19.97 ppm	453198	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3,5,7-Cyclooctatetraene	104	C8H8	000629-20-9	95
2	Bicyclo[4.2.0]octa-1,3,5-triene	104	C8H8	000694-87-1	94
3	Styrene	104	C8H8	000100-42-5	90
4	Bicyclo[4.2.0]octa-1,3,5-triene	104	C8H8	000694-87-1	87
5	Styrene	104	C8H8	000100-42-5	87





Library Search Compound Report

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Sample    : jb94209-1
Misc      : op83787,e2p2069,30.3
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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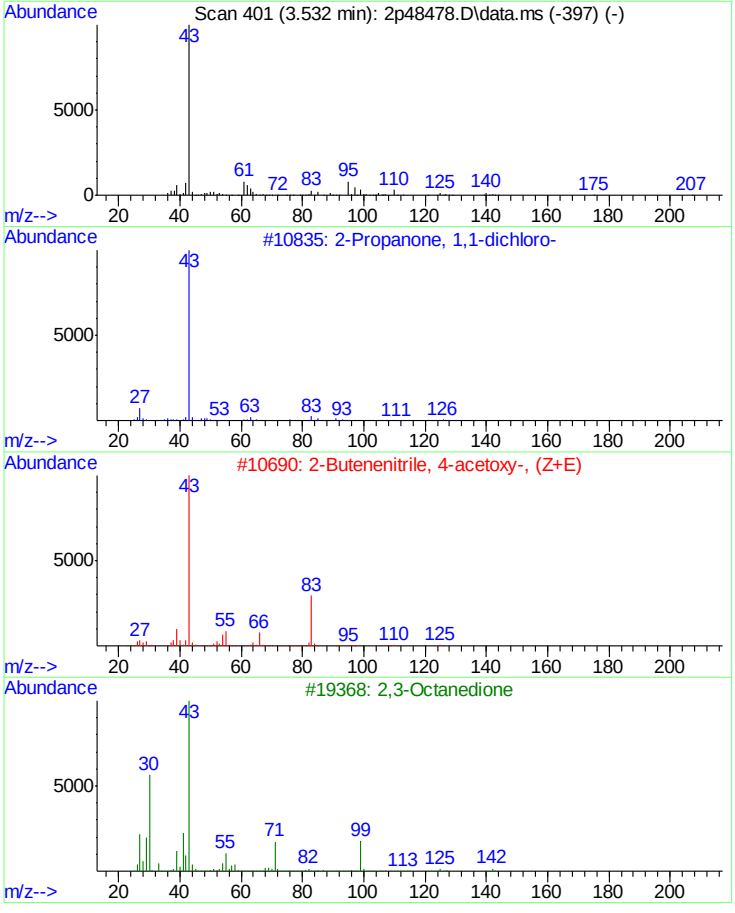
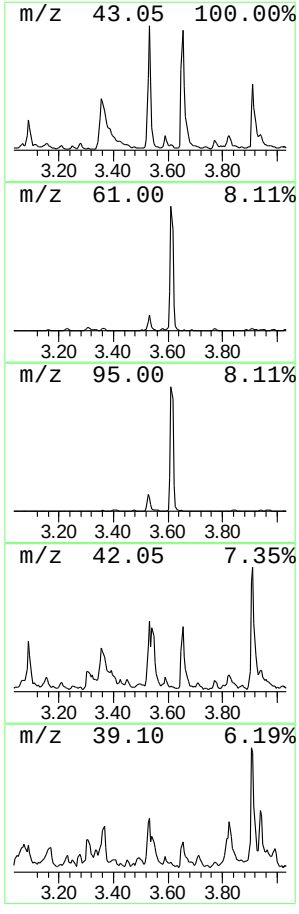
Peak Number 23 system artifact Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.532	15.72 ppm	356774	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanone, 1,1-dichloro-	126	C3H4Cl2O	000513-88-2	25
2	2-Butenenitrile, 4-acetoxy-, (Z+E)	125	C6H7NO2	1000158-79-0	16
3	2,3-Octanedione	142	C8H14O2	000585-25-1	9
4	Butanoic acid, 2-chloro-3-oxo-, ...	150	C5H7ClO3	004755-81-1	9
5	2-Propanone, 1-chloro-	92	C3H5ClO	000078-95-5	9





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48478.D
Acq On    : 11 May 2015   9:26 pm
Operator  : sarad
Sample    : jb94209-1
Misc      : op83787,e2p2069,30.3
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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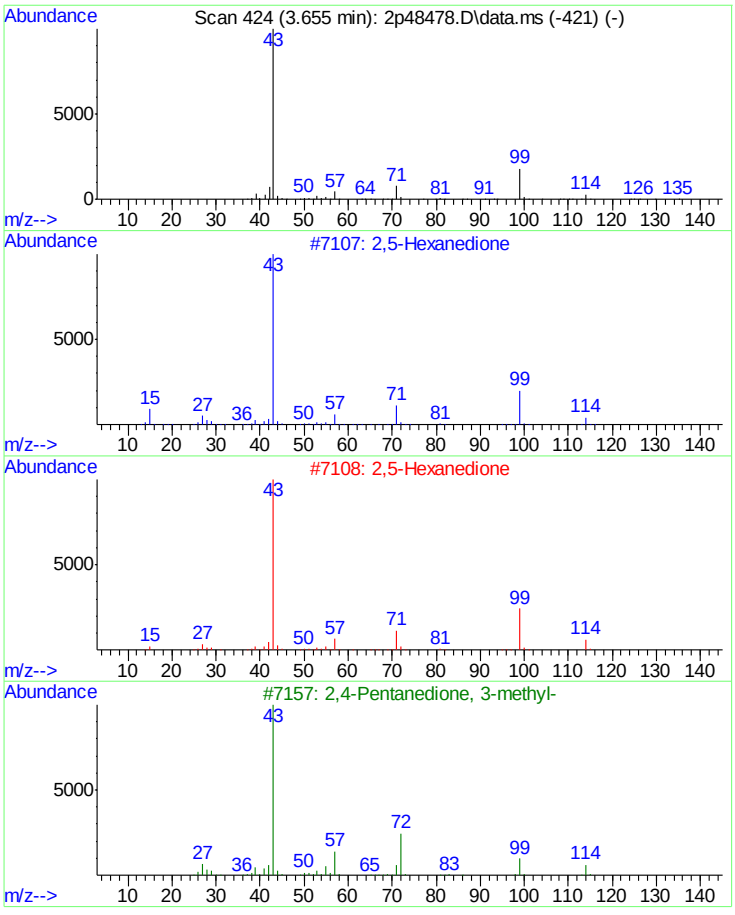
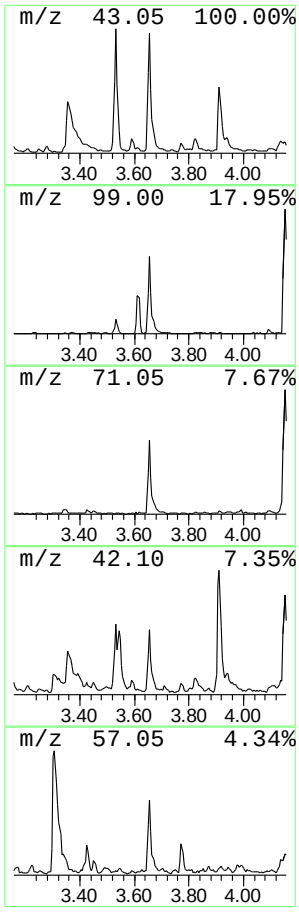
****

Peak Number 25 system artifact Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.655	12.27 ppm	278423	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,5-Hexanedione	114	C6H10O2	000110-13-4	53
2	2,5-Hexanedione	114	C6H10O2	000110-13-4	42
3	2,4-Pentanedione, 3-methyl-	114	C6H10O2	000815-57-6	33
4	2-Hexanone, 3-methyl-	114	C7H14O	002550-21-2	28
5	2(3H)-Furanone, dihydro-4,4-dime...	114	C6H10O2	013861-97-7	23





Library Search Compound Report

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Acq On : 11 May 2015 9:26 pm
Operator : sarad
Sample : jb94209-1
Misc : op83787,e2p2069,30.3
ALS Vial : 12 Sample Multiplier: 1

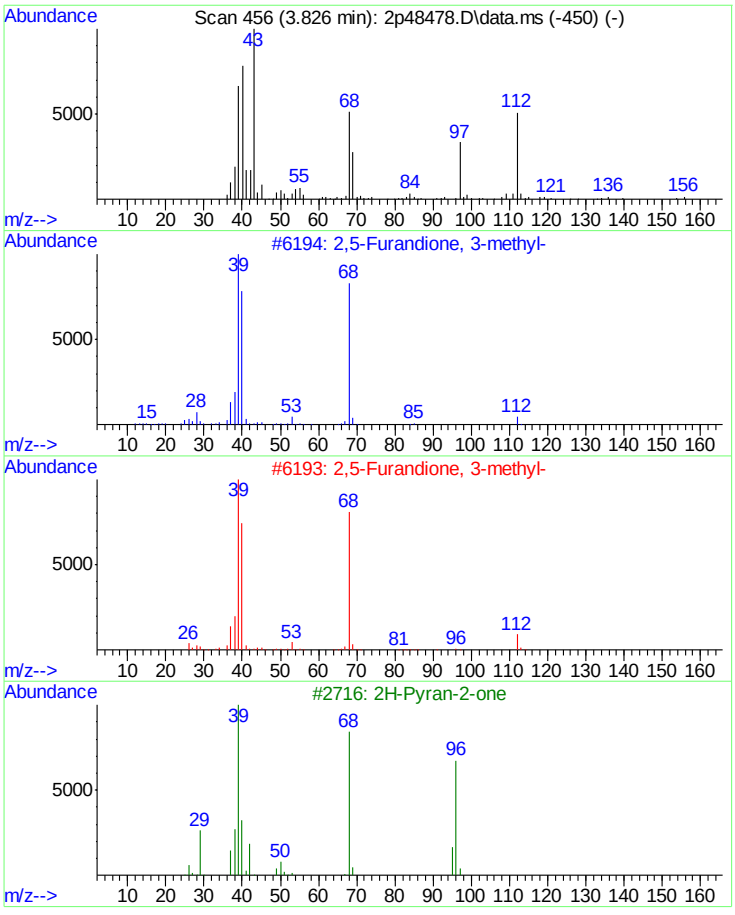
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

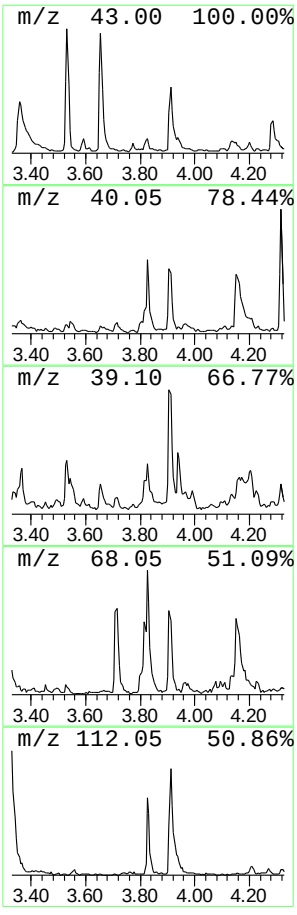
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 26 system artifact Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.826	5.46 ppm	123836	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,5-Furandione, 3-methyl-	112	C5H4O3	000616-02-4	64
2	2,5-Furandione, 3-methyl-	112	C5H4O3	000616-02-4	64
3	2H-Pyran-2-one	96	C5H4O2	000504-31-4	53
4	2,6-Dihydroxyisonicotinic acid	155	C6H5NO4	000099-11-6	53
5	2,5-Furandione, 3-methyl-	112	C5H4O3	000616-02-4	50





Library Search Compound Report

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Data File : 2p48478.D
Acq On : 11 May 2015 9:26 pm
Operator : sarad
Sample : jb94209-1
Misc : op83787,e2p2069,30.3
ALS Vial : 12 Sample Multiplier: 1

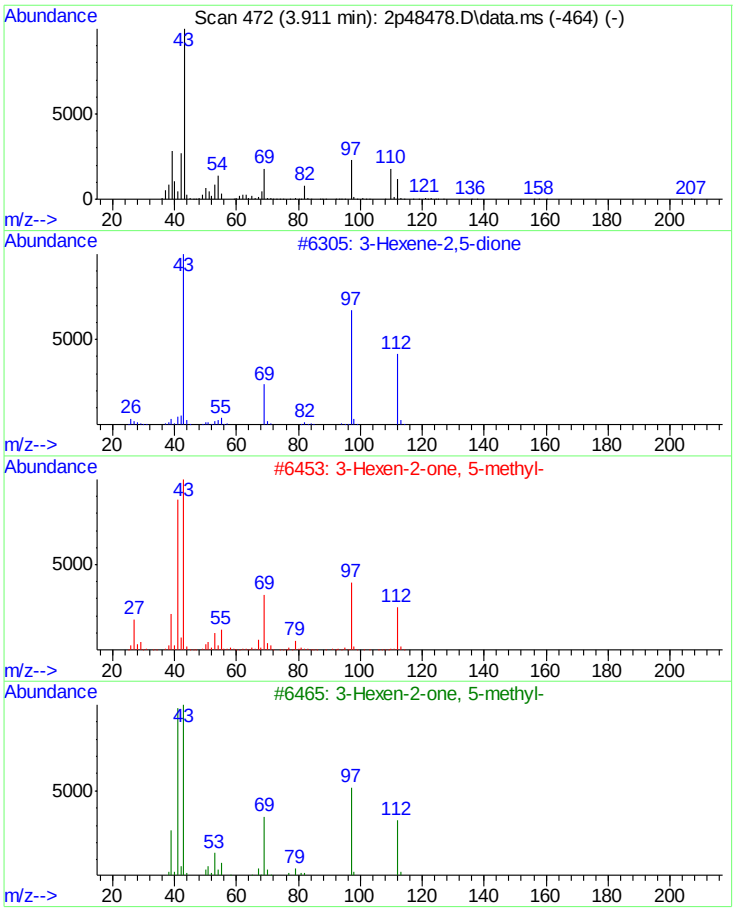
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

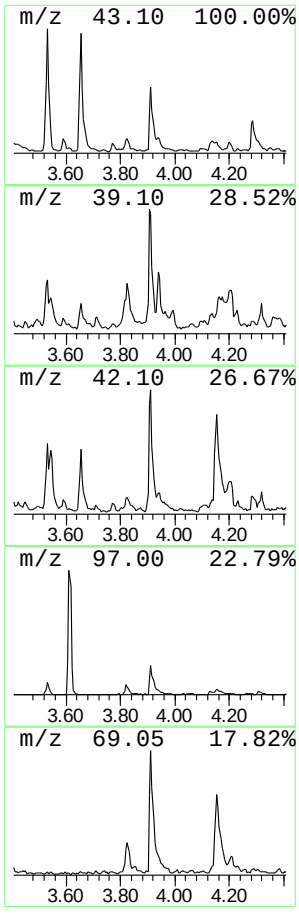
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 27 system artifact Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.911	15.49 ppm	351402	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hexene-2,5-dione	112	C6H8O2	004436-75-3	47
2	3-Hexen-2-one, 5-methyl-	112	C7H12O	005166-53-0	35
3	3-Hexen-2-one, 5-methyl-	112	C7H12O	005166-53-0	25
4	5-Hepten-2-one	112	C7H12O	006714-00-7	9
5	4-Hexen-2-one, 3-methyl-	112	C7H12O	072189-24-3	9





Library Search Compound Report

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Data File : 2p48478.D
Acq On    : 11 May 2015   9:26 pm
Operator  : sarad
Sample    : jb94209-1
Misc      : op83787,e2p2069,30.3
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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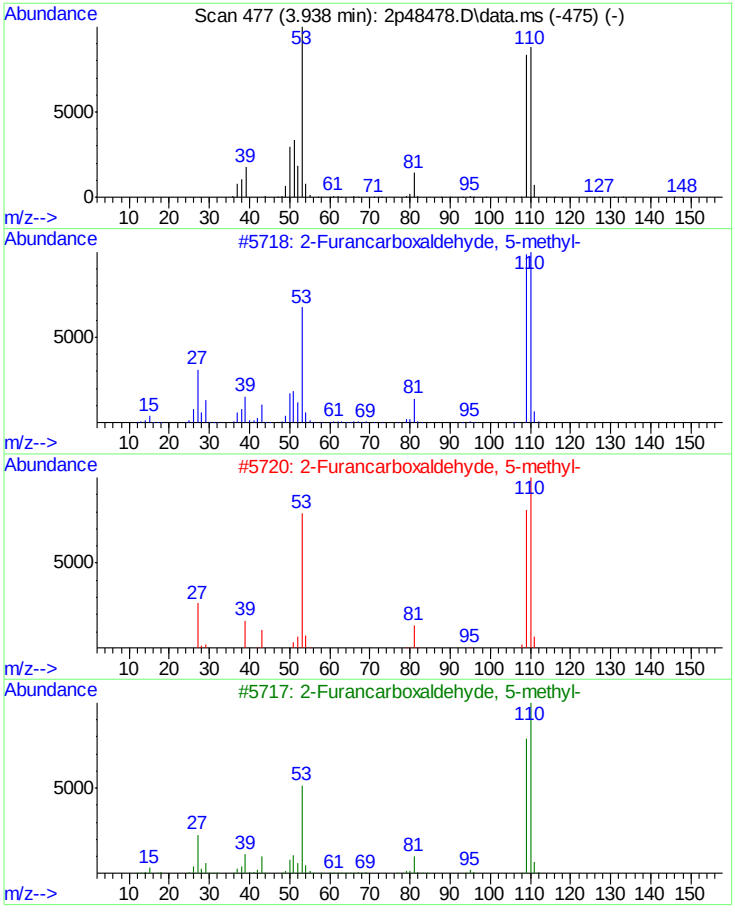
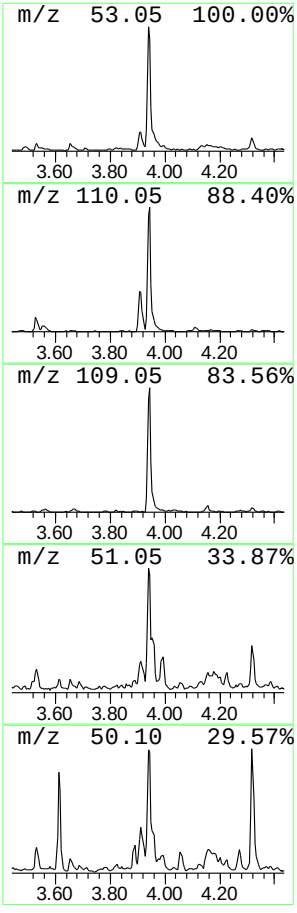
****

Peak Number 28 2-Furancarboxaldehyde, 5-me... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.938	13.68 ppm	310371	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Furancarboxaldehyde, 5-methyl-	110	C6H6O2	000620-02-0	91
2	2-Furancarboxaldehyde, 5-methyl-	110	C6H6O2	000620-02-0	86
3	2-Furancarboxaldehyde, 5-methyl-	110	C6H6O2	000620-02-0	50
4	2-Furancarboxaldehyde, 5-methyl-	110	C6H6O2	000620-02-0	47
5	1-Butyne, 3-methyl-	68	C5H8	000598-23-2	40





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48478.D
Acq On : 11 May 2015 9:26 pm
Operator : sarad
Sample : jb94209-1
Misc : op83787,e2p2069,30.3
ALS Vial : 12 Sample Multiplier: 1

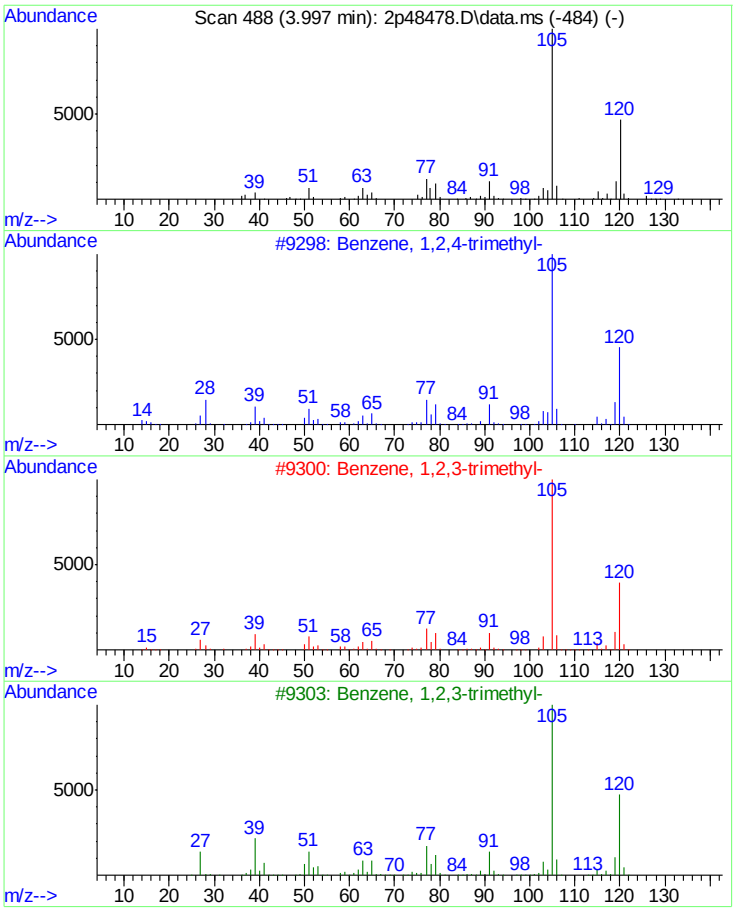
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

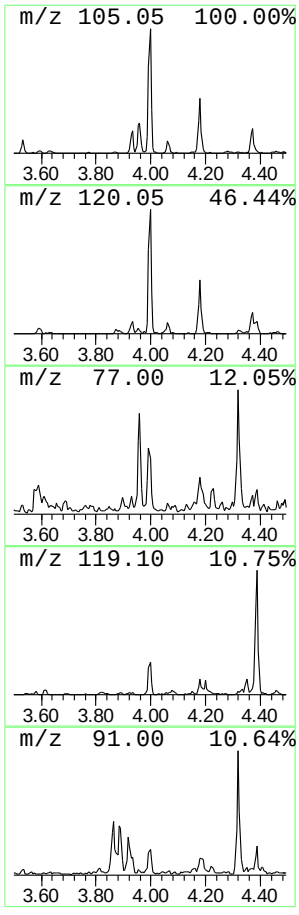
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 29 C3 alkyl benzene Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.997	4.78 ppm	108569	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	96
2	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	95
3	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91
4	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91
5	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48478.D
Acq On : 11 May 2015 9:26 pm
Operator : sarad
Sample : jb94209-1
Misc : op83787,e2p2069,30.3
ALS Vial : 12 Sample Multiplier: 1

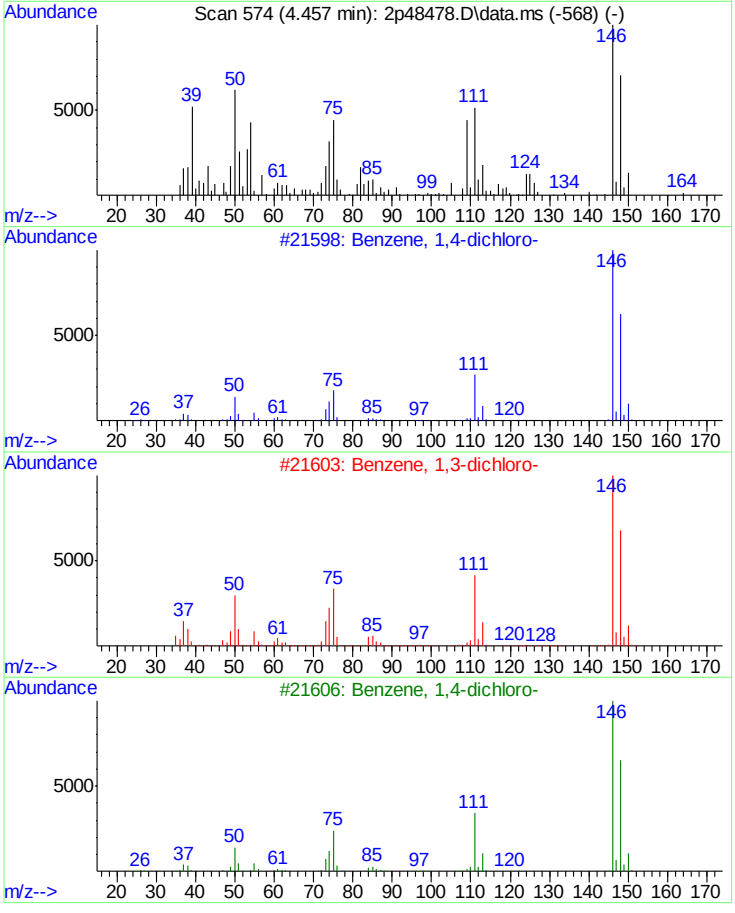
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

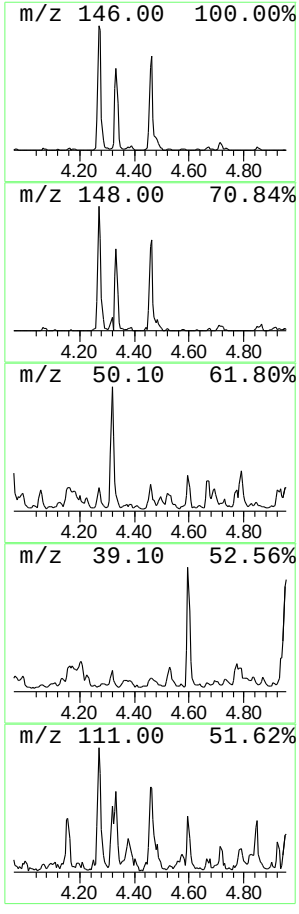
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 30 Benzene, 1,2-dichloro- Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.457	4.20 ppm	95297	1,4-Dichlorobenzene-d4a	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,4-dichloro-	146	C6H4Cl2	000106-46-7	95
2	Benzene, 1,3-dichloro-	146	C6H4Cl2	000541-73-1	91
3	Benzene, 1,4-dichloro-	146	C6H4Cl2	000106-46-7	90
4	Benzene, 1,2-dichloro-	146	C6H4Cl2	000095-50-1	86
5	Benzene, 1,2-dichloro-	146	C6H4Cl2	000095-50-1	86





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48478.D
Acq On    : 11 May 2015   9:26 pm
Operator  : sarad
Sample    : jb94209-1
Misc      : op83787,e2p2069,30.3
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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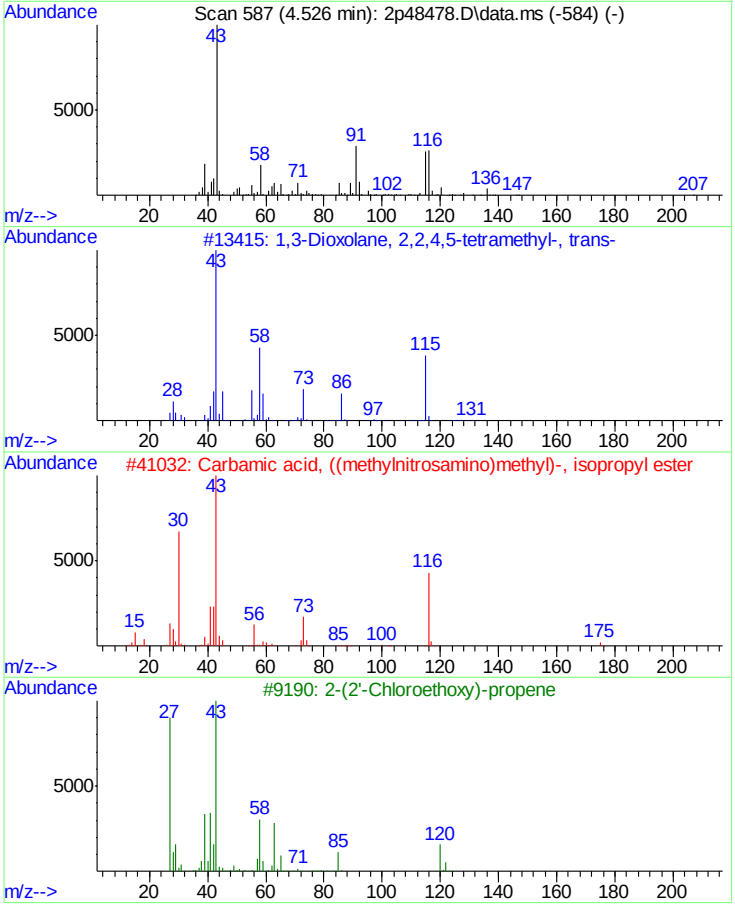
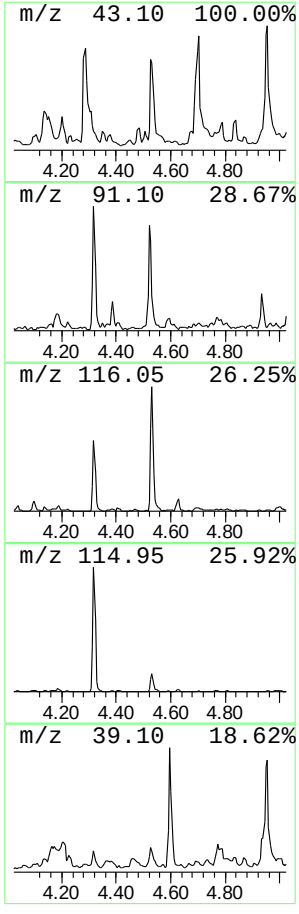
Peak Number 31 unknown Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.526	6.78 ppm	153945	1,4-Dichlorobenzene-d4a	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Dioxolane, 2,2,4,5-tetrameth...	130	C7H14O2	017226-66-3	9
2	Carbamic acid, ((methylnitrosami...	175	C6H13N3O3	072735-15-0	9
3	2-(2'-Chloroethoxy)-propene	120	C5H9ClO	099586-46-6	9
4	Imidodicarbonic diamide, N-propyl-	145	C5H11N3O2	044918-10-7	9
5	Carboisopropoxy diethylamino sul...	191	C8H17NO2S	1000252-47-5	9





Library Search Compound Report

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Data File : 2p48478.D
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Operator  : sarad
Sample    : jb94209-1
Misc      : op83787,e2p2069,30.3
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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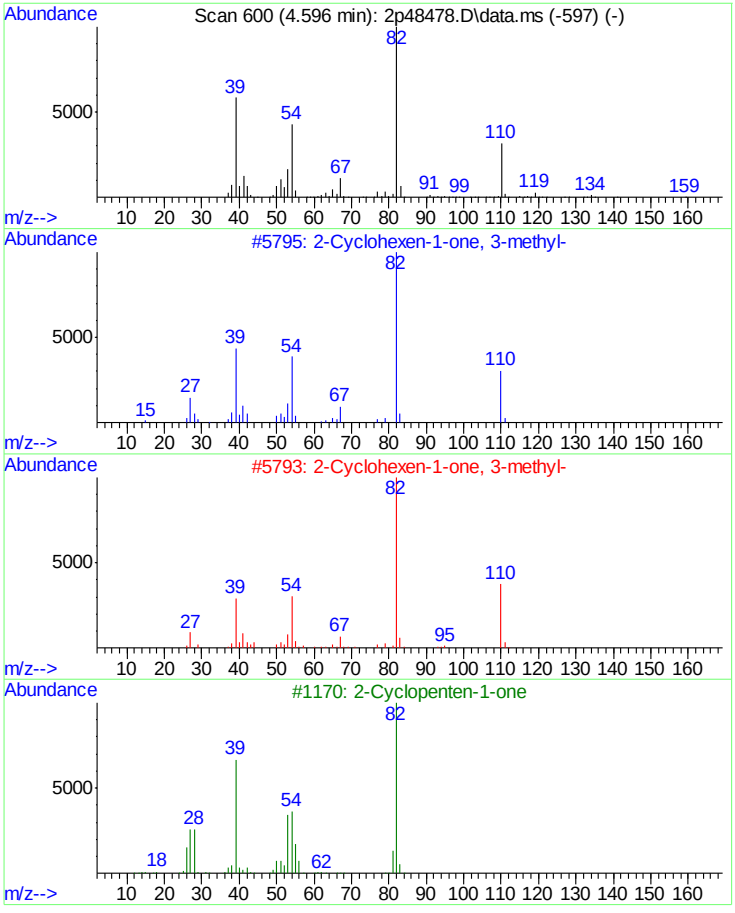
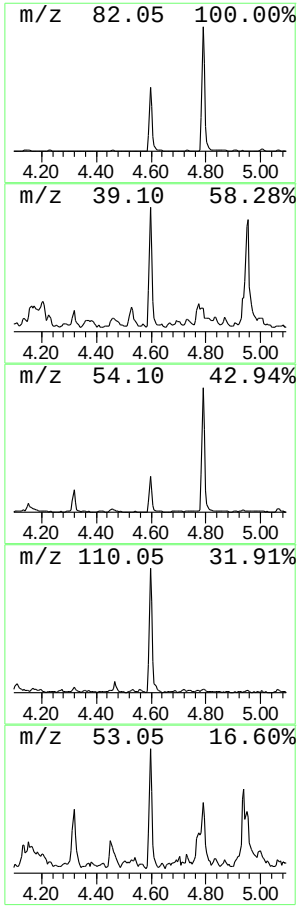
****

Peak Number 32 2-Cyclohexen-1-one, -methyl- Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.596	10.78 ppm	244525	1,4-Dichlorobenzene-d4a	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Cyclohexen-1-one, 3-methyl-	110	C7H10O	001193-18-6	91
2	2-Cyclohexen-1-one, 3-methyl-	110	C7H10O	001193-18-6	68
3	2-Cyclopenten-1-one	82	C5H6O	000930-30-3	64
4	1H-Pyrazole, 3-methyl-	82	C4H6N2	001453-58-3	50
5	2-Cyclohexen-1-one, 2-methyl-	110	C7H10O	001121-18-2	50





Library Search Compound Report

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Data File : 2p48478.D
Acq On    : 11 May 2015   9:26 pm
Operator  : sarad
Sample    : jb94209-1
Misc      : op83787,e2p2069,30.3
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

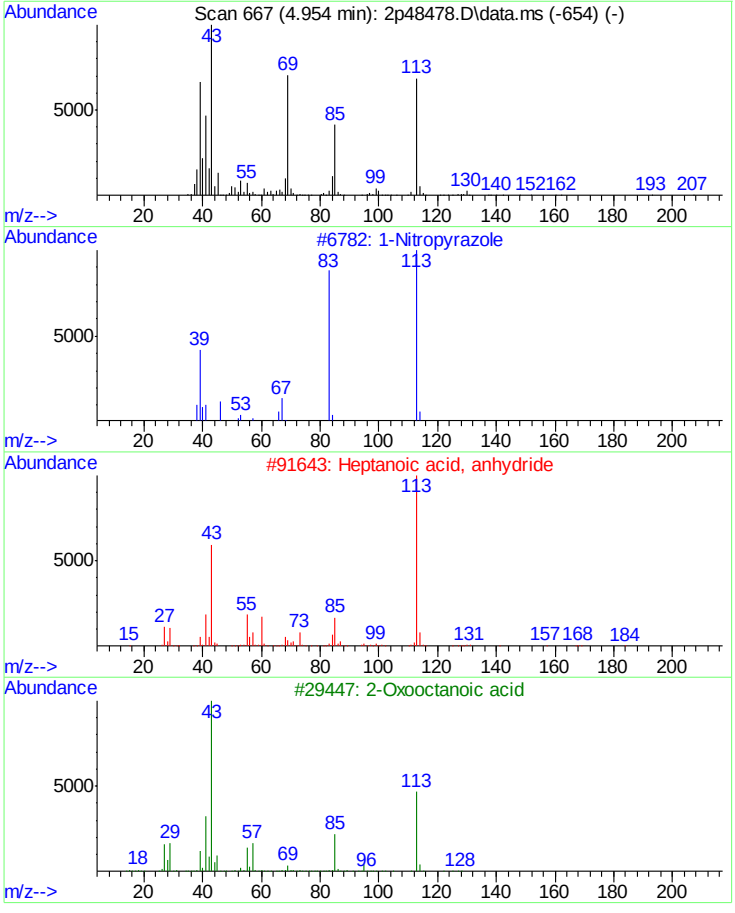
TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

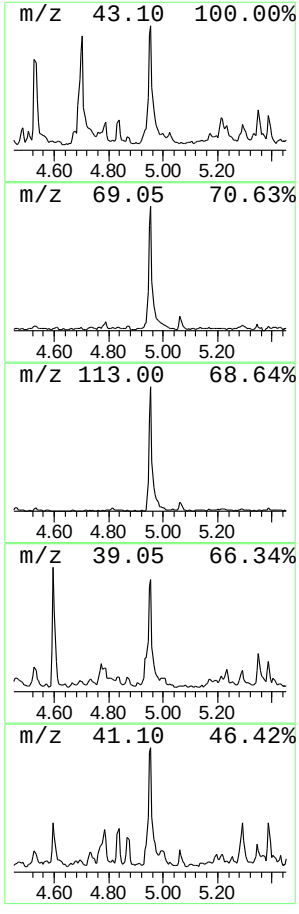
****

Peak Number 33 unknown Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.954	13.98 ppm	511597	Naphthalene-d8	5.372

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Nitropyrazole	113	C3H3N3O2	007119-95-1	43
2	Heptanoic acid, anhydride	242	C14H26O3	000626-27-7	37
3	2-Oxooctanoic acid	158	C8H14O3	000328-51-8	27
4	2-Propenoic acid, 2-methyl-, 1,2...	286	C14H22O6	000109-16-0	22
5	Oxalic acid, diisohexyl ester	258	C14H26O4	1000309-32-9	22





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48478.D
Acq On : 11 May 2015 9:26 pm
Operator : sarad
Sample : jb94209-1
Misc : op83787,e2p2069,30.3
ALS Vial : 12 Sample Multiplier: 1

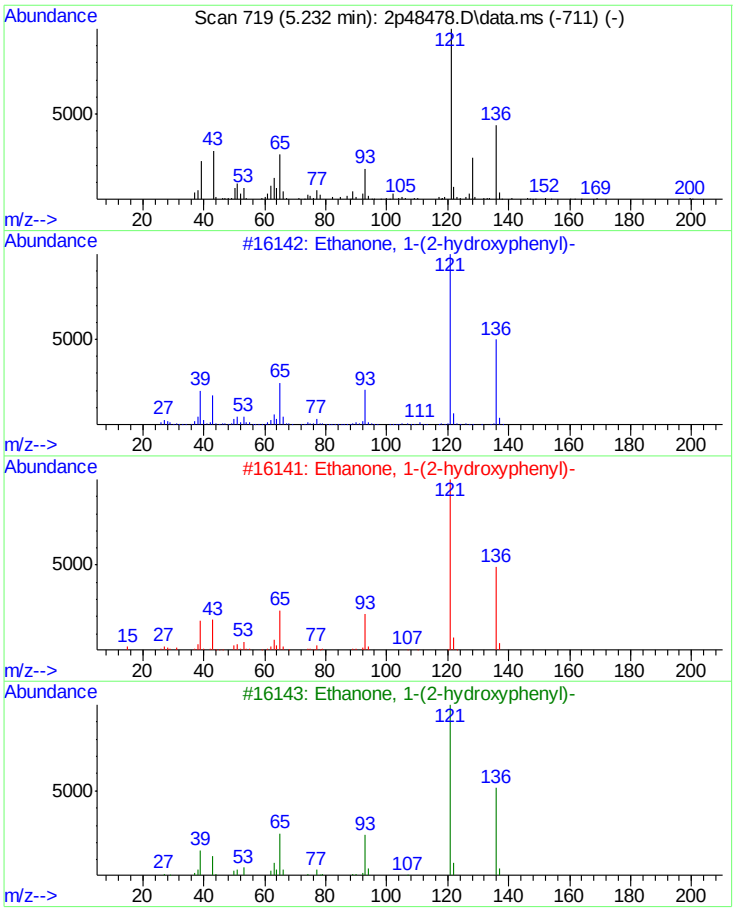
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

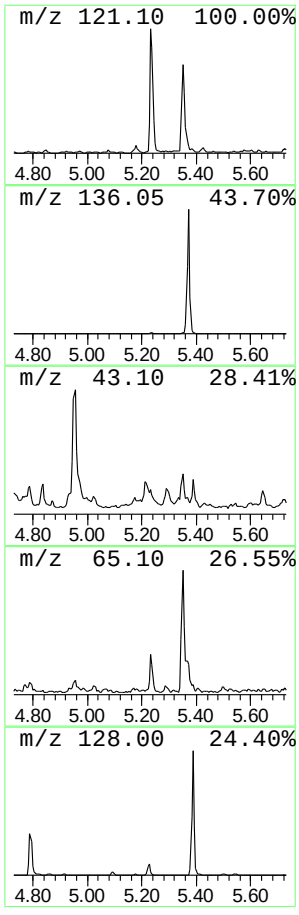
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 34 Ethanone, 1-(2-hydroxyphenyl)- Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.232	4.55 ppm	166483	Naphthalene-d8	5.372

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanone, 1-(2-hydroxyphenyl)-	136	C8H8O2	000118-93-4	87
2	Ethanone, 1-(2-hydroxyphenyl)-	136	C8H8O2	000118-93-4	87
3	Ethanone, 1-(2-hydroxyphenyl)-	136	C8H8O2	000118-93-4	87
4	Acetophenone, 4'-hydroxy-	136	C8H8O2	000099-93-4	80
5	Ethanone, 1-(2-hydroxyphenyl)-	136	C8H8O2	000118-93-4	80





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48478.D
Acq On : 11 May 2015 9:26 pm
Operator : sarad
Sample : jb94209-1
Misc : op83787,e2p2069,30.3
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

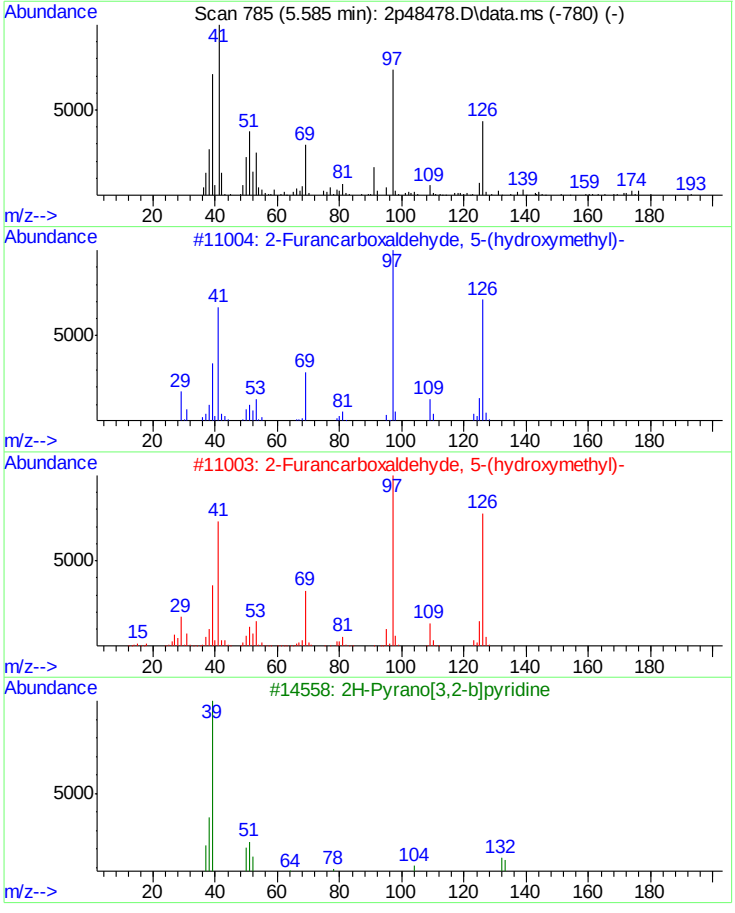
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

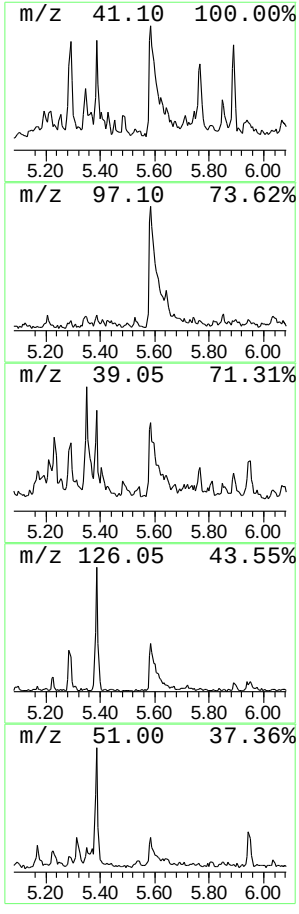
****

Peak Number 35 unknown Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.585	4.13 ppm	151024	Naphthalene-d8a	5.372

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Furancarboxaldehyde, 5-(hydrox...	126	C6H6O3	000067-47-0	76
2	2-Furancarboxaldehyde, 5-(hydrox...	126	C6H6O3	000067-47-0	43
3	2H-Pyrano[3,2-b]pyridine	133	C8H7NO	004767-91-3	43
4	Methallyl cyanide	81	C5H7N	004786-19-0	38
5	1-Methoxy-1-buten-3-yne	82	C5H6O	002798-73-4	30





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48478.D
Acq On : 11 May 2015 9:26 pm
Operator : sarad
Sample : jb94209-1
Misc : op83787,e2p2069,30.3
ALS Vial : 12 Sample Multiplier: 1

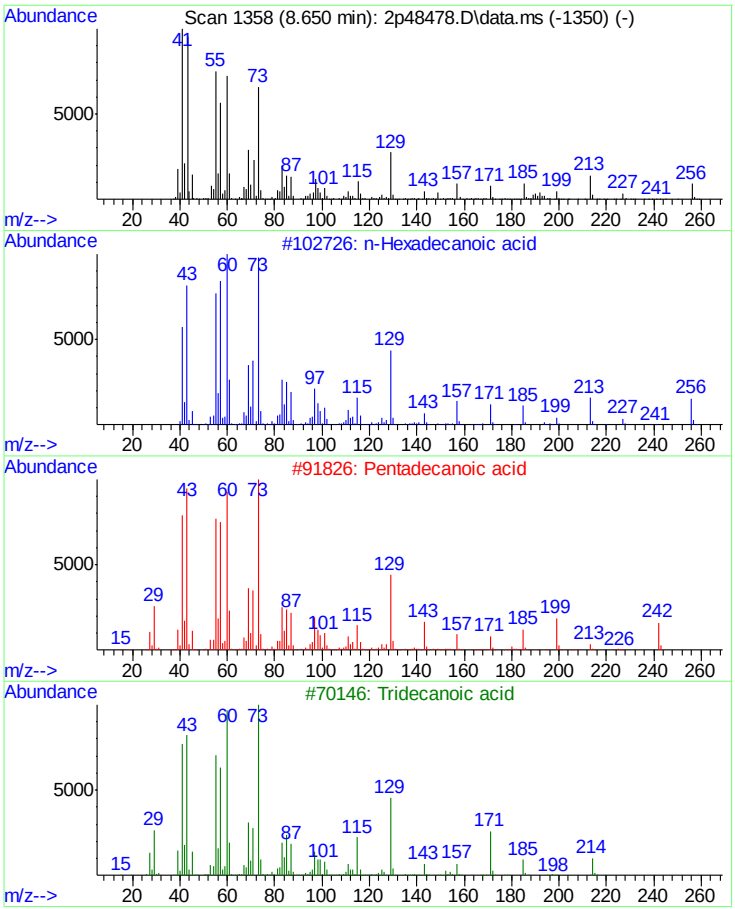
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

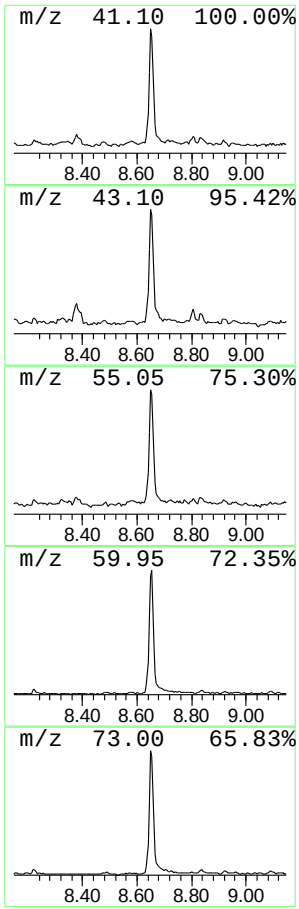
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 36 unknown acid Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.650	15.63 ppm	527680	Phenanthrene-d10	8.046

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	90
3	Tridecanoic acid	214	C13H26O2	000638-53-9	70
4	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	64
5	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	60





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48478.D
Acq On : 11 May 2015 9:26 pm
Operator : sarad
Sample : jb94209-1
Misc : op83787,e2p2069,30.3
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
system artifact	1.430	190.3	ppm	4319250	1	4.318	907689	40.0
system artifact	1.542	5.6	ppm	126449	1	4.318	907689	40.0
system artifact	1.724	5.8	ppm	132617	1	4.318	907689	40.0
system artifact	1.820	11.7	ppm	265138	1	4.318	907689	40.0
system artifact	1.916	51.5	ppm	1169470	1	4.318	907689	40.0
system artifact	2.173	26.2	ppm	595217	1	4.318	907689	40.0
system artifact	2.366	34.3	ppm	779275	1	4.318	907689	40.0
system artifact	2.451	392.4	ppm	8904090	1	4.318	907689	40.0
system artifact	2.558	16.0	ppm	362845	1	4.318	907689	40.0
system artifact	2.574	17.5	ppm	398095	1	4.318	907689	40.0
system artifact	2.670	15.7	ppm	357002	1	4.318	907689	40.0
system artifact	2.745	9.2	ppm	207774	1	4.318	907689	40.0
Furfural	2.815	18.6	ppm	421833	1	4.318	907689	40.0
system artifact...	2.911	197.0	ppm	4469660	1	4.318	907689	40.0
system artifact	3.088	7.2	ppm	163501	1	4.318	907689	40.0
system artifact	3.366	20.0	ppm	453198	1	4.318	907689	40.0
system artifact	3.532	15.7	ppm	356774	1	4.318	907689	40.0
system artifact	3.655	12.3	ppm	278423	1	4.318	907689	40.0
system artifact	3.826	5.5	ppm	123836	1	4.318	907689	40.0
system artifact	3.911	15.5	ppm	351402	1	4.318	907689	40.0
2-Furancarboxal...	3.938	13.7	ppm	310371	1	4.318	907689	40.0
C3 alkyl benzene	3.997	4.8	ppm	108569	1	4.318	907689	40.0
Benzene, 1,2-di...	4.457	4.2	ppm	95297	2	4.318	907689	40.0
unknown	4.526	6.8	ppm	153945	2	4.318	907689	40.0
2-Cyclohexen-1-...	4.596	10.8	ppm	244525	2	4.318	907689	40.0
unknown	4.954	14.0	ppm	511597	3	5.372	1463760	40.0
Ethanone, 1-(2-...	5.232	4.5	ppm	166483	3	5.372	1463760	40.0
unknown	5.585	4.1	ppm	151024	4	5.372	1463760	40.0
unknown acid	8.650	15.6	ppm	527680	7	8.046	1350380	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48473.D
Acq On : 11 May 2015 7:41 pm
Operator : sarad
Sample : jb94209-2
Misc : op83787,e2p2069,31.4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 11 22:18:10 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.313	152	155795	40.00 ppm	-0.09
24) Naphthalene-d8	5.372	136	507532	40.00 ppm	-0.09
47) Acenaphthene-d10	6.805	164	312236	40.00 ppm	-0.09
69) Phenanthrene-d10	8.051	188	504484	40.00 ppm	-0.10
83) Chrysene-d12	11.202	240	452039	40.00 ppm	-0.13
92) Perylene-d12	13.186	264	358029	40.00 ppm	-0.13
102) 1,4-Dichlorobenzene-d4a	4.313	152	155795	40.00 ppm	-0.09
104) Naphthalene-d8a	5.372	136	507532	40.00 ppm	#-0.09
106) Acenaphthene-d10a	6.805	164	312236	40.00 ppm	-0.09
109) Chrysene-d12a	11.202	240	452039	40.00 ppm	-0.13
System Monitoring Compounds					
5) 2-Fluorophenol	3.286	112	139179	30.38 ppm	-0.11
Spiked Amount 50.000	Range 11 - 58		Recovery = 60.76%#		
8) Phenol-d5	4.131	99	166255	28.85 ppm	-0.10
Spiked Amount 50.000	Range 10 - 59		Recovery = 57.70%		
25) Nitrobenzene-d5	4.789	82	171533	37.30 ppm	-0.09
Spiked Amount 50.000	Range 19 - 61		Recovery = 74.60%#		
51) 2-Fluorobiphenyl	6.265	172	385843	36.10 ppm	-0.08
Spiked Amount 50.000	Range 21 - 58		Recovery = 72.20%#		
73) 2,4,6-Tribromophenol	7.468	330	34713	29.62 ppm	-0.09
Spiked Amount 50.000	Range 12 - 68		Recovery = 59.24%		
85) Terphenyl-d14	9.806	244	403492	47.98 ppm	-0.11
Spiked Amount 50.000	Range 16 - 65		Recovery = 95.96%#		
Target Compounds					Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

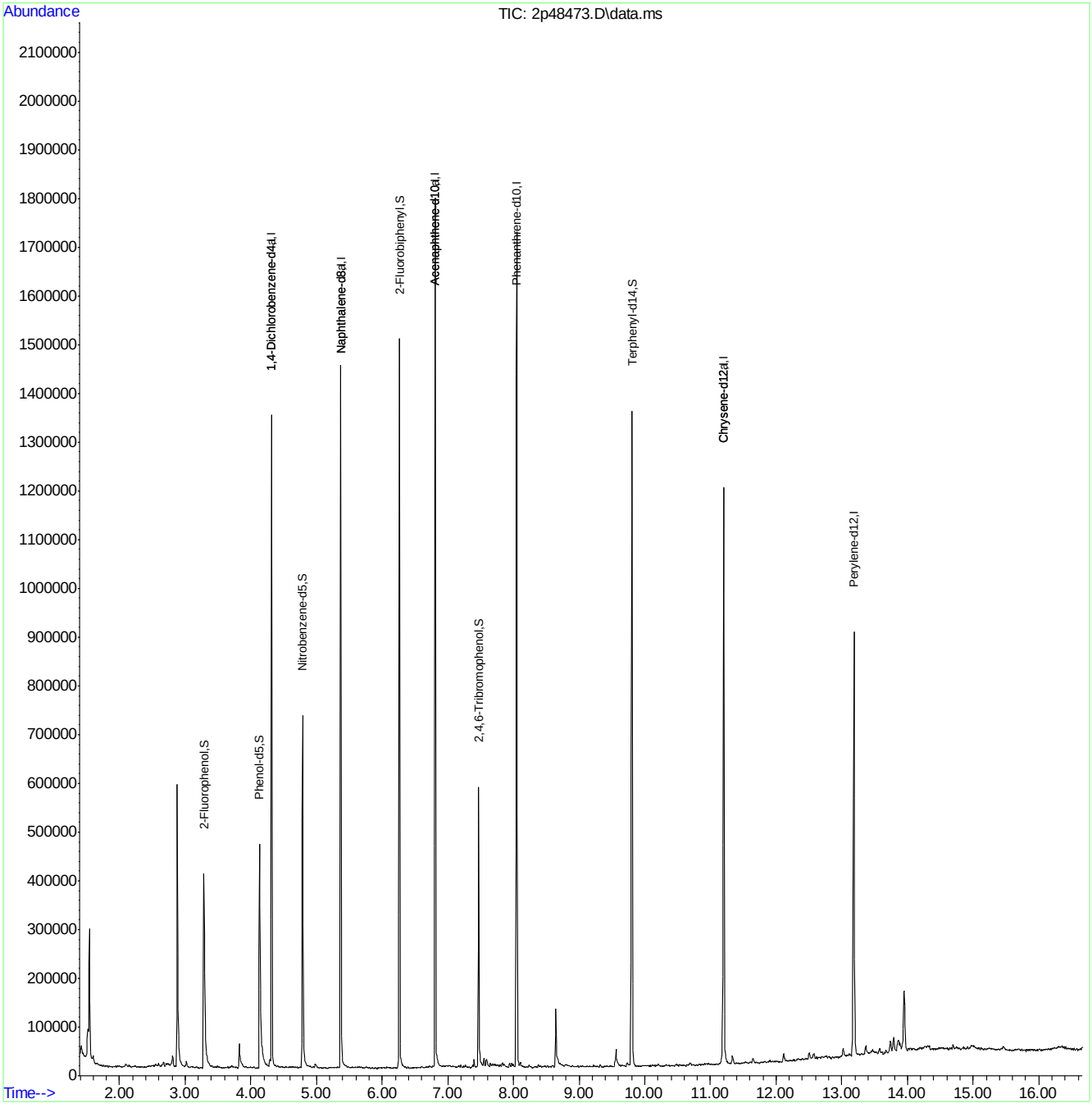
9.1.3

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48473.D
Acq On : 11 May 2015 7:41 pm
Operator : sarad
Sample : jb94209-2
Misc : op83787,e2p2069,31.4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 11 22:18:10 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48473.D
Acq On : 11 May 2015 7:41 pm
Operator : sarad
Sample : jb94209-2
Misc : op83787,e2p2069,31.4
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: 2p48473.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.414	3	5	17	rVB3	23078	40318	2.89%	0.271%
2	1.515	18	24	26	rVV	63061	100295	7.18%	0.674%
3	1.542	26	29	37	rVV	273206	246284	17.64%	1.656%
4	1.596	37	39	45	rVB6	16334	20333	1.46%	0.137%
5	2.098	126	133	138	rBV8	5791	10910	0.78%	0.073%
6	2.146	138	142	148	rVB8	5330	8673	0.62%	0.058%
7	2.232	153	158	164	rVB8	3348	6267	0.45%	0.042%
8	2.553	214	218	221	rVV6	5143	7381	0.53%	0.050%
9	2.590	223	225	230	rVV3	7812	9751	0.70%	0.066%
10	2.671	234	240	244	rVV4	10750	14335	1.03%	0.096%
11	2.713	244	248	249	rVV4	7890	8413	0.60%	0.057%
12	2.735	249	252	254	rVV3	8448	10679	0.76%	0.072%
13	2.810	258	266	271	rVV2	23204	35775	2.56%	0.241%
14	2.879	274	279	299	rVV	579624	565100	40.47%	3.800%
15	3.018	299	305	314	rVB4	13142	23303	1.67%	0.157%
16	3.286	351	355	375	rBV	399833	589504	42.21%	3.964%
17	3.719	426	436	438	rBV7	4182	8416	0.60%	0.057%
18	3.821	452	455	472	rBV	50927	91739	6.57%	0.617%
19	4.131	507	513	532	rBV	459520	621969	44.54%	4.182%
20	4.313	540	547	561	rVV	1337100	1033858	74.04%	6.952%
21	4.789	632	636	649	rBV	721863	603727	43.23%	4.060%
22	4.981	669	672	679	rVB8	7510	10426	0.75%	0.070%
23	5.366	738	744	756	rBV	1440979	1154528	82.68%	7.764%
24	6.265	903	912	927	rVV	1497358	1204497	86.26%	8.100%
25	6.805	1008	1013	1032	rVV	1782389	1396436	100.00%	9.390%
26	7.019	1049	1053	1059	rBV8	2865	6375	0.46%	0.043%
27	7.169	1072	1081	1084	rBV8	4436	8432	0.60%	0.057%
28	7.196	1084	1086	1089	rVV4	7042	6120	0.44%	0.041%
29	7.270	1096	1100	1105	rVB8	5253	6696	0.48%	0.045%
30	7.377	1114	1120	1122	rBV6	7283	9832	0.70%	0.066%
31	7.399	1122	1124	1130	rVV	18695	18602	1.33%	0.125%
32	7.468	1130	1137	1149	rVV	577384	473239	33.89%	3.182%
33	7.549	1149	1152	1156	rVV2	20453	26182	1.87%	0.176%
34	7.586	1156	1159	1167	rVV5	18802	35556	2.55%	0.239%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48473.D
Acq On : 11 May 2015 7:41 pm
Operator : sarad
Sample : jb94209-2
Misc : op83787,e2p2069,31.4
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

35	7.645	1167	1170	1173	rVV3	9517	11516	0.82%	0.077%
36	7.672	1173	1175	1178	rVV4	8073	10656	0.76%	0.072%
37	7.698	1178	1180	1183	rVV3	8676	10462	0.75%	0.070%
38	7.720	1183	1184	1187	rVV3	7888	7125	0.51%	0.048%
39	7.752	1187	1190	1195	rVV6	6841	13337	0.96%	0.090%
40	7.795	1195	1198	1202	rVV5	6126	10058	0.72%	0.068%
41	7.827	1202	1204	1207	rVV3	9629	10561	0.76%	0.071%
42	7.853	1207	1209	1222	rVV3	7503	15778	1.13%	0.106%
43	7.939	1222	1225	1228	rVV3	9709	10312	0.74%	0.069%
44	7.971	1228	1231	1234	rVV2	10041	9302	0.67%	0.063%
45	7.992	1234	1235	1241	rVV6	7810	9626	0.69%	0.065%
46	8.051	1241	1246	1253	rVV	1713906	1383912	99.10%	9.306%
47	8.105	1253	1256	1261	rVV3	11763	14399	1.03%	0.097%
48	8.239	1277	1281	1291	rVB5	7567	12830	0.92%	0.086%
49	8.319	1291	1296	1303	rBV5	3847	9389	0.67%	0.063%
50	8.522	1329	1334	1337	rBV7	4473	5740	0.41%	0.039%
51	8.645	1352	1357	1368	rBV	120445	150667	10.79%	1.013%
52	8.789	1381	1384	1390	rBV8	3492	6815	0.49%	0.046%
53	9.324	1480	1484	1488	rBV7	4721	6166	0.44%	0.041%
54	9.560	1520	1528	1538	rVV5	37066	62376	4.47%	0.419%
55	9.731	1555	1560	1564	rVV8	7221	10724	0.77%	0.072%
56	9.806	1567	1574	1587	rVB	1344537	1379552	98.79%	9.277%
57	10.207	1643	1649	1652	rVV8	4230	6794	0.49%	0.046%
58	10.330	1665	1672	1675	rBV9	3545	7324	0.52%	0.049%
59	10.485	1695	1701	1706	rVB9	4654	10447	0.75%	0.070%
60	10.522	1706	1708	1712	rBV5	3556	5760	0.41%	0.039%
61	10.688	1734	1739	1744	rVV9	5272	10877	0.78%	0.073%
62	11.202	1819	1835	1851	rVV	1183754	1389715	99.52%	9.345%
63	11.335	1853	1860	1866	rVB2	16787	27313	1.96%	0.184%
64	11.549	1888	1900	1906	rVB2	3095	8141	0.58%	0.055%
65	11.651	1914	1919	1923	rVV7	10049	14491	1.04%	0.097%
66	11.902	1960	1966	1969	rBV7	4688	5423	0.39%	0.036%
67	11.993	1982	1983	1992	rVB8	3180	7292	0.52%	0.049%
68	12.111	2001	2005	2011	rBV2	16603	24690	1.77%	0.166%
69	12.336	2040	2047	2053	rVV2	4994	11893	0.85%	0.080%
70	12.501	2074	2078	2083	rVV7	15078	23765	1.70%	0.160%
71	12.571	2085	2091	2097	rVV7	12549	24851	1.78%	0.167%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48473.D
Acq On : 11 May 2015 7:41 pm
Operator : sarad
Sample : jb94209-2
Misc : op83787,e2p2069,31.4
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

72	12.651	2101	2106	2108	rVV6	4251	6928	0.50%	0.047%
73	12.705	2112	2116	2120	rVV7	4476	8946	0.64%	0.060%
74	12.742	2120	2123	2125	rVV4	4281	6141	0.44%	0.041%
75	12.796	2131	2133	2139	rBV7	3852	6436	0.46%	0.043%
76	13.020	2165	2175	2181	rVV5	18785	42450	3.04%	0.285%
77	13.116	2188	2193	2196	rVV6	5200	7432	0.53%	0.050%
78	13.186	2198	2206	2216	rBV	870196	1124991	80.56%	7.565%
79	13.368	2232	2240	2249	rBV	19927	40635	2.91%	0.273%
80	13.464	2252	2258	2265	rVV	7889	14366	1.03%	0.097%
81	13.576	2274	2279	2284	rBV9	10329	18629	1.33%	0.125%
82	13.673	2290	2297	2301	rBV9	6852	12606	0.90%	0.085%
83	13.742	2303	2310	2314	rBV10	23624	35628	2.55%	0.240%
84	13.790	2314	2319	2326	rVV8	30789	52376	3.75%	0.352%
85	13.860	2326	2332	2335	rVV7	23648	41202	2.95%	0.277%
86	13.951	2341	2349	2358	rVB2	122769	200745	14.38%	1.350%
87	14.047	2363	2367	2370	rVB6	3381	5440	0.39%	0.037%
88	14.277	2404	2410	2413	rBV7	3948	7440	0.53%	0.050%
89	14.438	2438	2440	2444	rBV4	4235	6045	0.43%	0.041%
90	14.646	2477	2479	2481	rBV3	5527	5473	0.39%	0.037%
91	14.694	2485	2488	2492	rVV6	8878	11313	0.81%	0.076%
92	14.919	2524	2530	2532	rBV7	5711	6333	0.45%	0.043%
93	14.967	2537	2539	2541	rBV3	6118	5696	0.41%	0.038%
94	15.095	2561	2563	2566	rVB4	5510	5439	0.39%	0.037%
95	15.117	2566	2567	2574	rBV7	5458	6410	0.46%	0.043%
96	15.465	2627	2632	2638	rVB10	6555	12995	0.93%	0.087%
97	15.764	2687	2688	2695	rVB7	3768	6523	0.47%	0.044%
98	15.823	2695	2699	2701	rBV5	4909	7030	0.50%	0.047%
99	16.015	2730	2735	2739	rVB8	3210	5729	0.41%	0.039%
100	16.577	2837	2840	2844	rVB6	4698	5732	0.41%	0.039%

Sum of corrected areas: 14871139

LSC Report - Integrated Chromatogram

```
Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48473.D
Acq On    : 11 May 2015   7:41 pm
Operator  : sarad
Sample    : jb94209-2
Misc      : op83787,e2p2069,31.4
ALS Vial  : 7   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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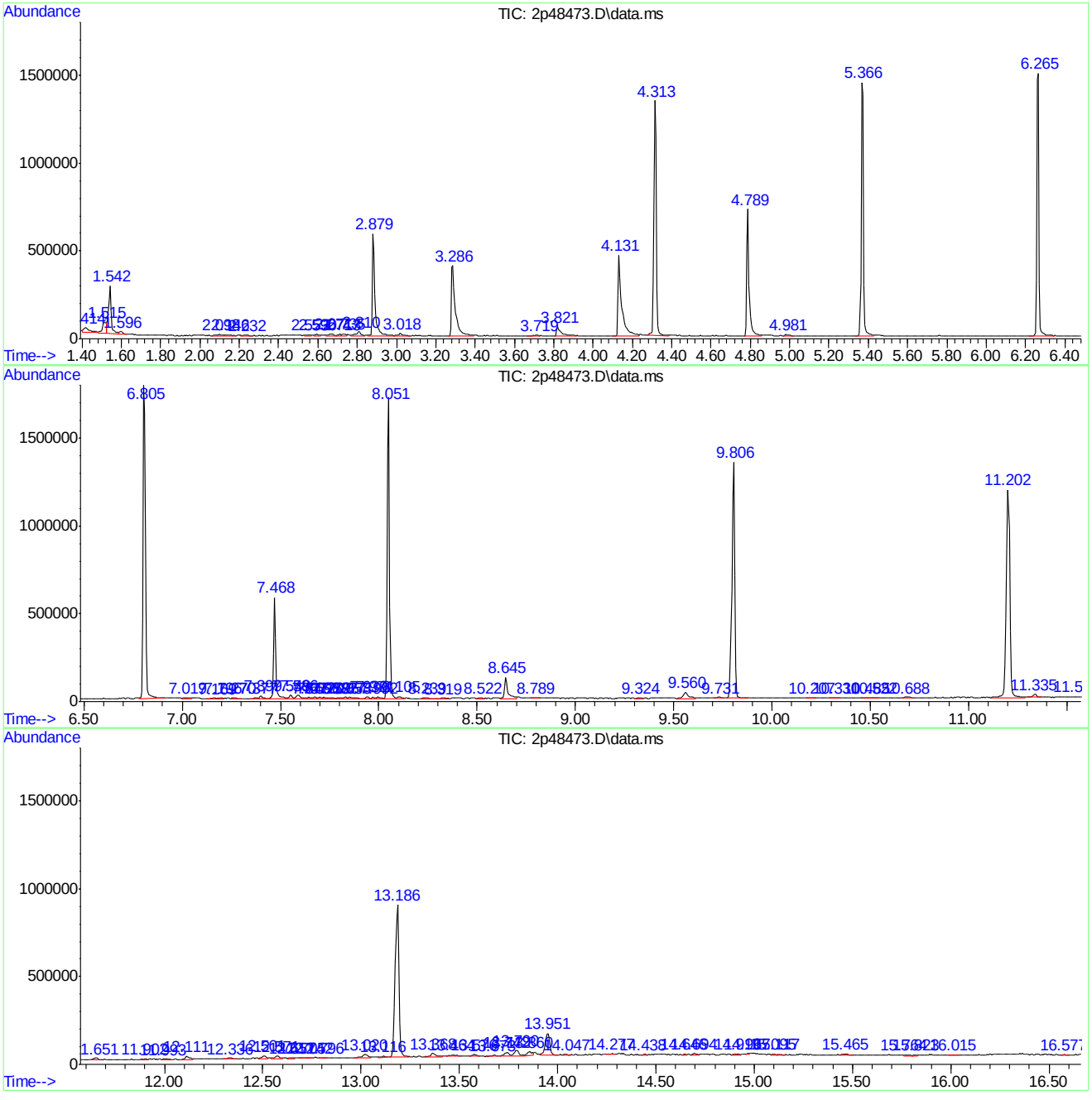


Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48473.D
Acq On : 11 May 2015 7:41 pm
Operator : sarad
Sample : jb94209-2
Misc : op83787,e2p2069,31.4
ALS Vial : 7 Sample Multiplier: 1

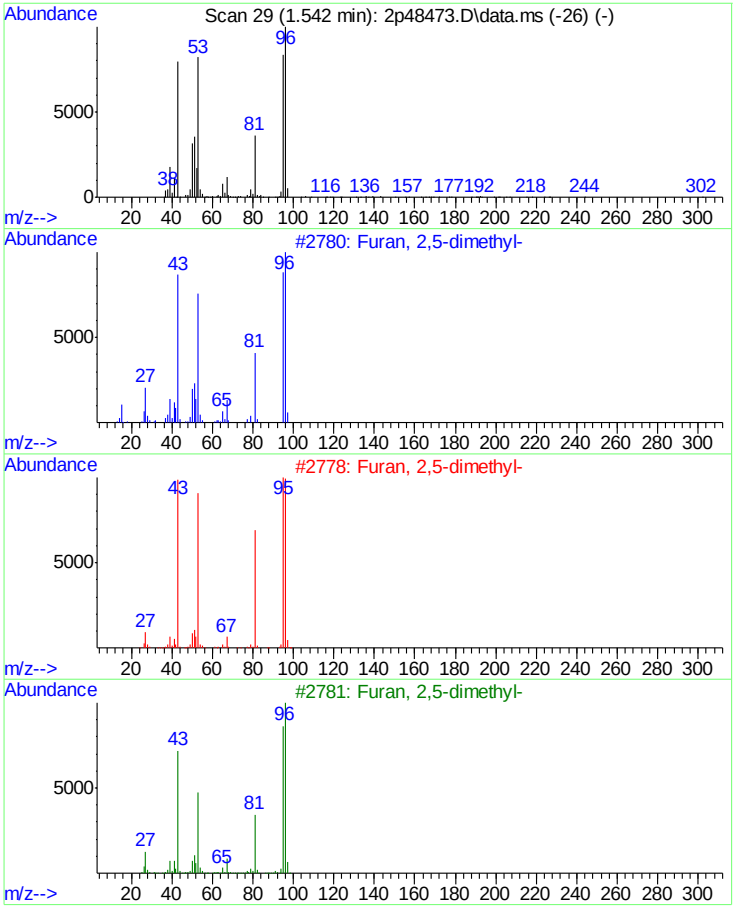
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

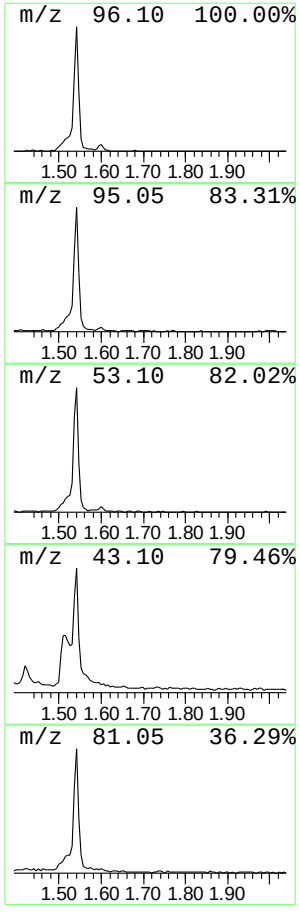
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 1 system artifact Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.542	9.53 ppm	246284	1,4-Dichlorobenzene-d4	4.313

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	94
2	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	86
3	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	49
4	2-Cyclopenten-1-one, 3-methyl-	96	C6H8O	002758-18-1	45
5	1,3-Cyclobutanedicarbonitrile, cis-	106	C6H6N2	007371-77-9	38





Library Search Compound Report

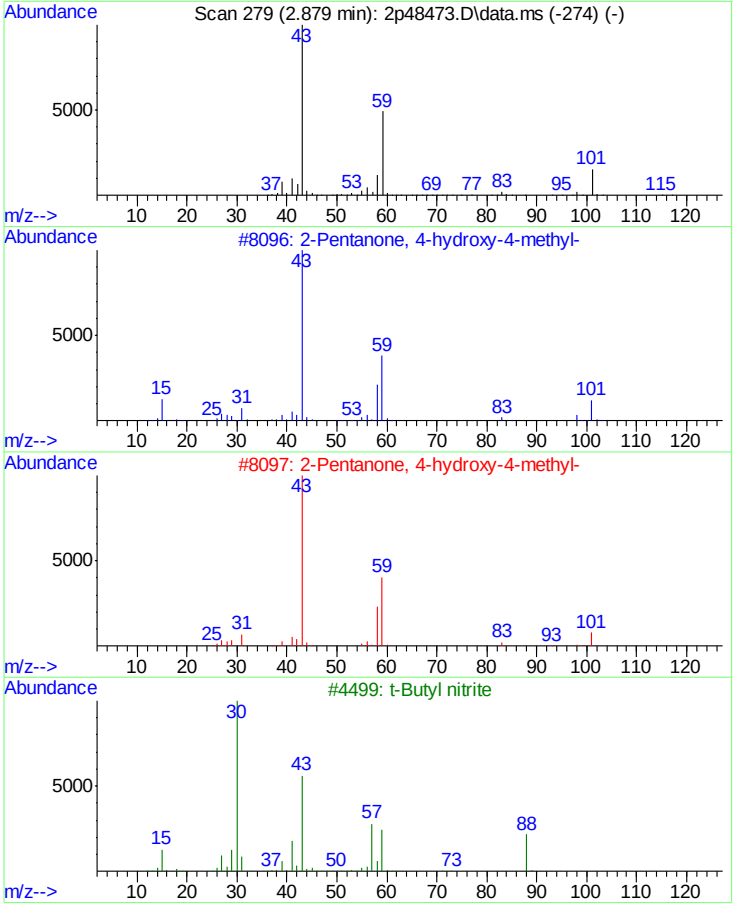
```
Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48473.D
Acq On    : 11 May 2015   7:41 pm
Operator  : sarad
Sample    : jb94209-2
Misc      : op83787,e2p2069,31.4
ALS Vial  : 7   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

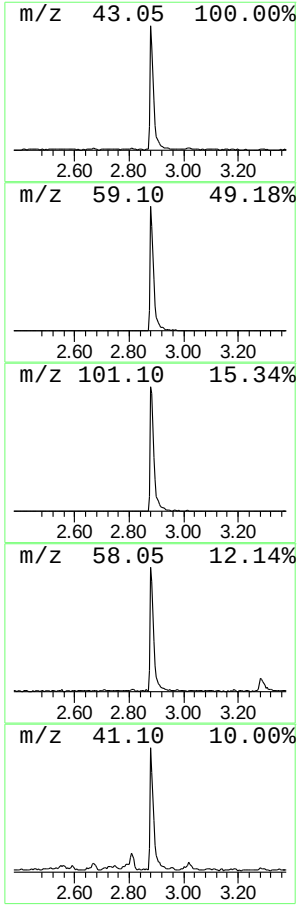
****

Peak Number 2 system artifact/aldol-conde... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.879	21.86 ppm	565100	1,4-Dichlorobenzene-d4	4.313

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
3	t-Butyl nitrite	103	C4H9NO2	000540-80-7	39
4	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	38
5	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	28





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48473.D
Acq On : 11 May 2015 7:41 pm
Operator : sarad
Sample : jb94209-2
Misc : op83787,e2p2069,31.4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

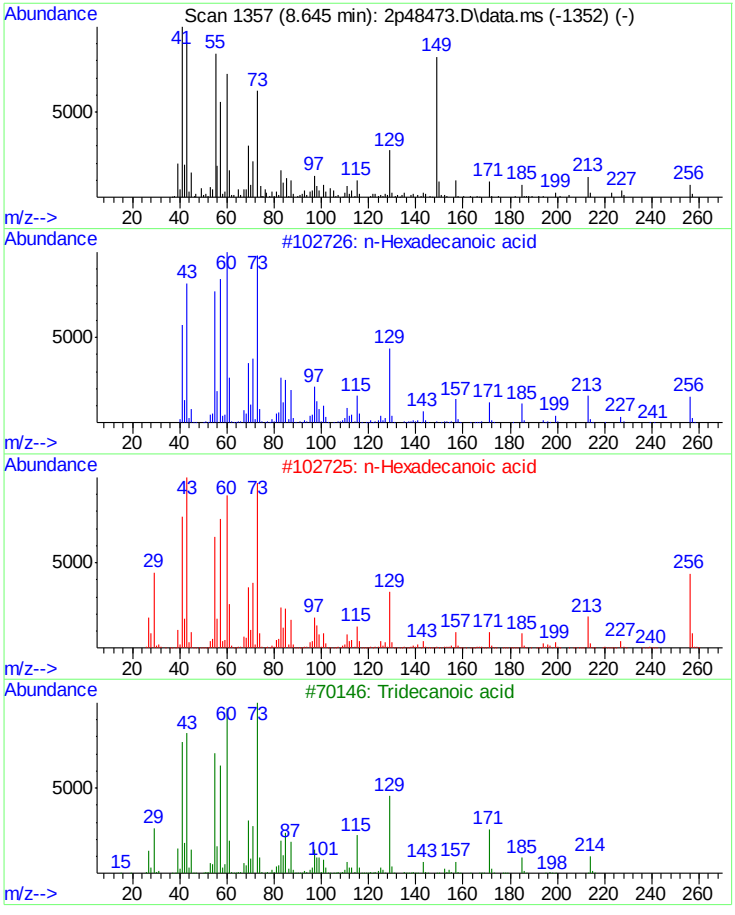
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

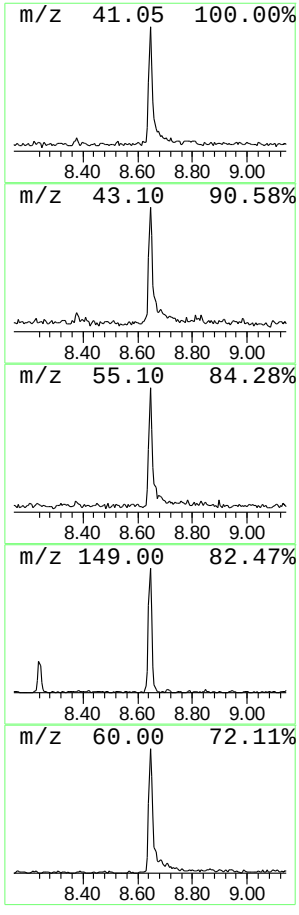
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.645	4.35 ppm	150667	Phenanthrene-d10	8.051

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	96
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	83
3	Tridecanoic acid	214	C13H26O2	000638-53-9	42
4	Phthalic acid, cyclohexylmethyl ...	346	C21H30O4	1000309-07-1	38
5	Didodecyl phthalate	502	C32H54O4	002432-90-8	38





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48473.D
Acq On    : 11 May 2015   7:41 pm
Operator  : sarad
Sample    : jb94209-2
Misc      : op83787,e2p2069,31.4
ALS Vial  : 7   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

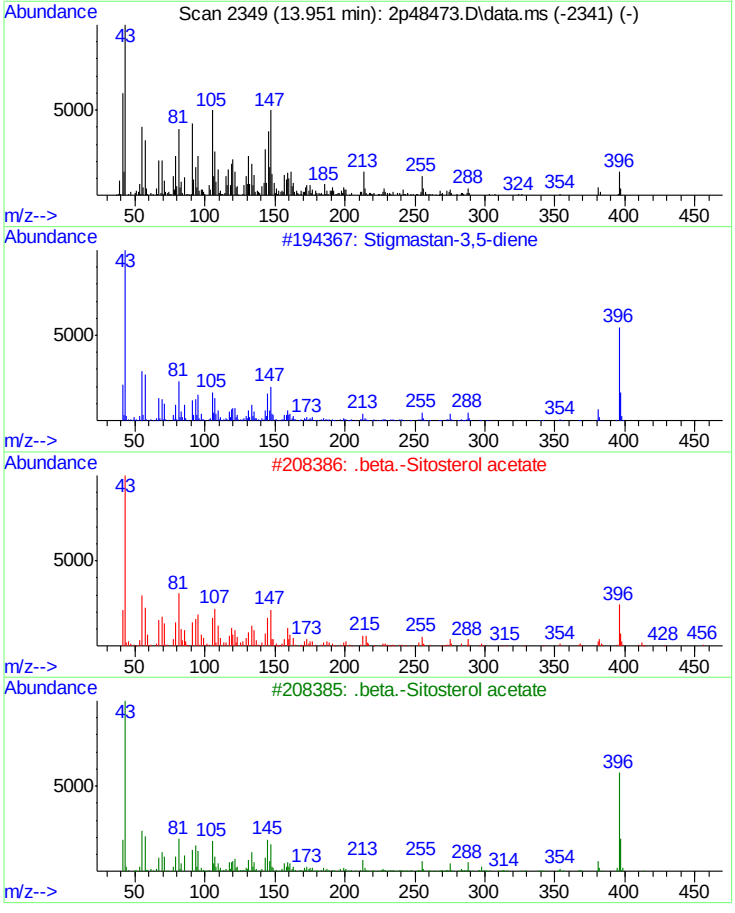
TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

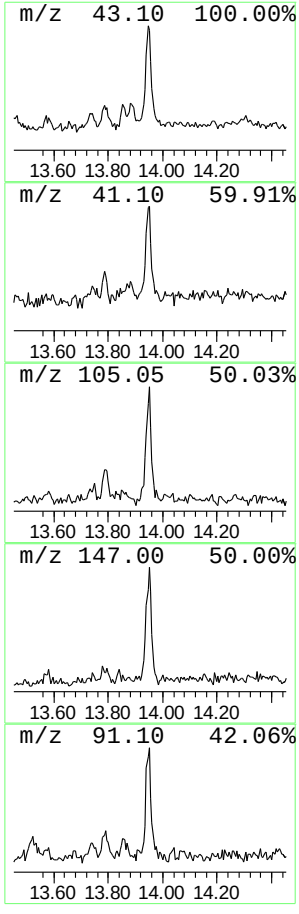
****

Peak Number 4 unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.951	7.14 ppm	200745	Perylene-d12	13.186

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmastan-3,5-diene	396	C29H48	1000214-16-4	92
2	.beta.-Sitosterol acetate	456	C31H52O2	000915-05-9	27
3	.beta.-Sitosterol acetate	456	C31H52O2	000915-05-9	25
4	Ergost-5-en-3-ol, acetate, (3.be...	442	C30H50O2	1000141-99-7	16
5	2,4-Pentanedione, 3-(phenylmethyl)-	190	C12H14O2	001134-87-8	9





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48473.D
Acq On : 11 May 2015 7:41 pm
Operator : sarad
Sample : jb94209-2
Misc : op83787,e2p2069,31.4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
system artifact	1.542	9.5	ppm	246284	1	4.313	1033860	40.0
system artifact...	2.879	21.9	ppm	565100	1	4.313	1033860	40.0
n-Hexadecanoic ...	8.645	4.3	ppm	150667	7	8.051	1383910	40.0
unknown	13.951	7.1	ppm	200745	10	13.186	1124990	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Kristin Weiler
05/14/15 10:00

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48480.D
Acq On : 11 May 2015 10:08 pm
Operator : sarad
Sample : jb94209-3
Misc : op83787,e2p2069,30.5
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 12 11:07:03 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.318	152	129603	40.00 ppm	-0.09
24) Naphthalene-d8	5.372	136	424157	40.00 ppm	-0.09
47) Acenaphthene-d10	6.805	164	253308	40.00 ppm	-0.09
69) Phenanthrene-d10	8.051	188	375589	40.00 ppm	-0.10
83) Chrysene-d12	11.255	240	482141	40.00 ppm	0.00
92) Perylene-d12	13.245	264	403825	40.00 ppm	-0.07
102) 1,4-Dichlorobenzene-d4a	4.318	152	129603	40.00 ppm	-0.09
104) Naphthalene-d8a	5.372	136	424157	40.00 ppm	#-0.09
106) Acenaphthene-d10a	6.805	164	253308	40.00 ppm	-0.09
109) Chrysene-d12a	11.255	240	481248	40.00 ppm	-0.08
System Monitoring Compounds					
5) 2-Fluorophenol	3.286	112	107453	28.20 ppm	-0.11
Spiked Amount 50.000	Range 11 - 58		Recovery = 56.40%		
8) Phenol-d5	4.136	99	125680	26.21 ppm	-0.09
Spiked Amount 50.000	Range 10 - 59		Recovery = 52.42%		
25) Nitrobenzene-d5	4.789	82	129156	33.60 ppm	-0.09
Spiked Amount 50.000	Range 19 - 61		Recovery = 67.20%#		
51) 2-Fluorobiphenyl	6.260	172	282724	32.60 ppm	-0.09
Spiked Amount 50.000	Range 21 - 58		Recovery = 65.20%#		
73) 2,4,6-Tribromophenol	7.468	330	29039	33.28 ppm	-0.09
Spiked Amount 50.000	Range 12 - 68		Recovery = 66.56%		
85) Terphenyl-d14	9.822	244	279351	31.15 ppm	-0.10
Spiked Amount 50.000	Range 16 - 65		Recovery = 62.30%		
Target Compounds					Qvalue
38) Naphthalene	5.388	128	110745	9.95 ppm	100
44) 2-Methylnaphthalene	5.960	141	30072	4.56 ppm	89
53) Biphenyl	6.340	154	11866	1.24 ppm	98
56) Acenaphthylene	6.693	152	475317	39.85 ppm	99
59) Acenaphthene	6.832	153	109384	14.71 ppm	99
62) Dibenzofuran	6.976	168	117479	11.80 ppm	88
66) Fluorene	7.254	166	154851	19.00 ppm	99
77) Phenanthrene	8.089	178	4222496	408.75 ppm	99
78) Anthracene	8.126	178	747070	71.51 ppm	97
79) Carbazole	8.303	167	297778	29.51 ppm	97
80) Di-n-butylphthalate	8.650	149	23348	2.07 ppm	97
81) Fluoranthene	9.356	202	7349513	594.09 ppm	99
84) Pyrene	9.629	202	7029752	477.60 ppm	97
88) Benzo[a]anthracene	11.244	228	3621684m	260.10 ppm	
90) Chrysene	11.298	228	3484738m	280.24 ppm	
94) Benzo[b]fluoranthene	12.763	252	4545599m	368.84 ppm	
95) Benzo[k]fluoranthene	12.790	252	748653m	64.16 ppm	
96) Benzo[a]pyrene	13.186	252	2751760	258.23 ppm	97
97) Indeno[1,2,3-cd]pyrene	14.577	276	1392904	114.05 ppm	98
99) Dibenz[a,h]anthracene	14.582	278	496528	50.07 ppm	94
101) Benzo[g,h,i]perylene	14.914	276	1190445	118.08 ppm	94

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48480.D
Acq On : 11 May 2015 10:08 pm
Operator : sarad
Sample : jb94209-3
Misc : op83787,e2p2069,30.5
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 12 11:07:03 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48480.D
Acq On : 11 May 2015 10:08 pm
Operator : sarad
Sample : jb94209-3
Misc : op83787,e2p2069,30.5
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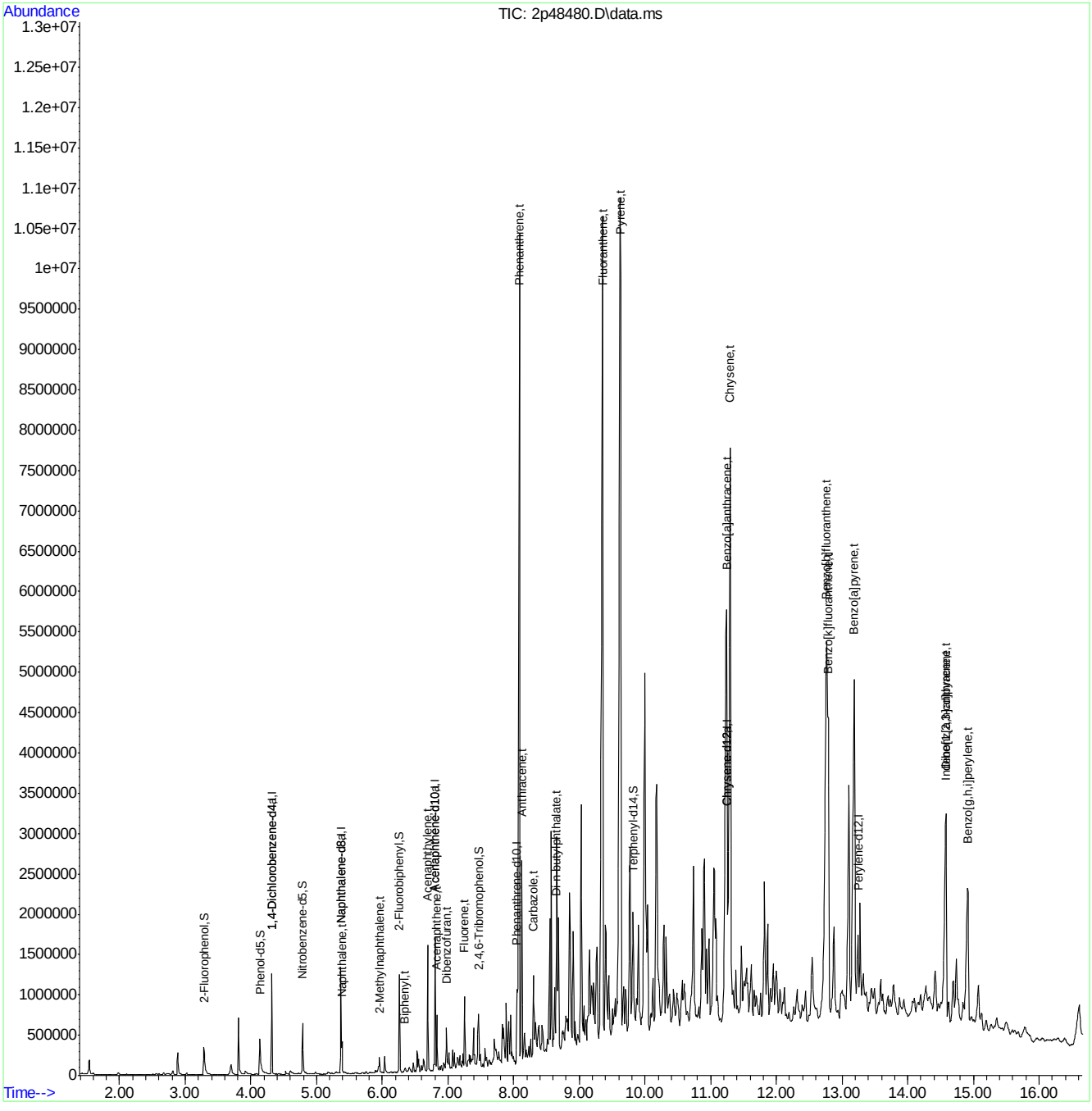
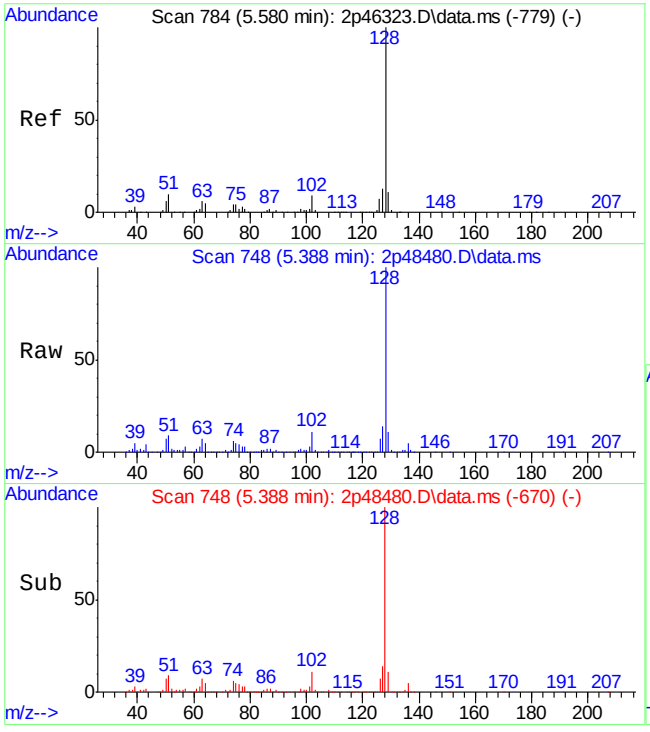
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

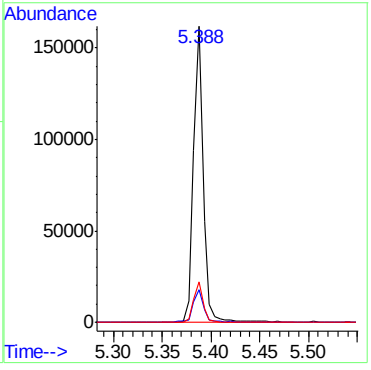


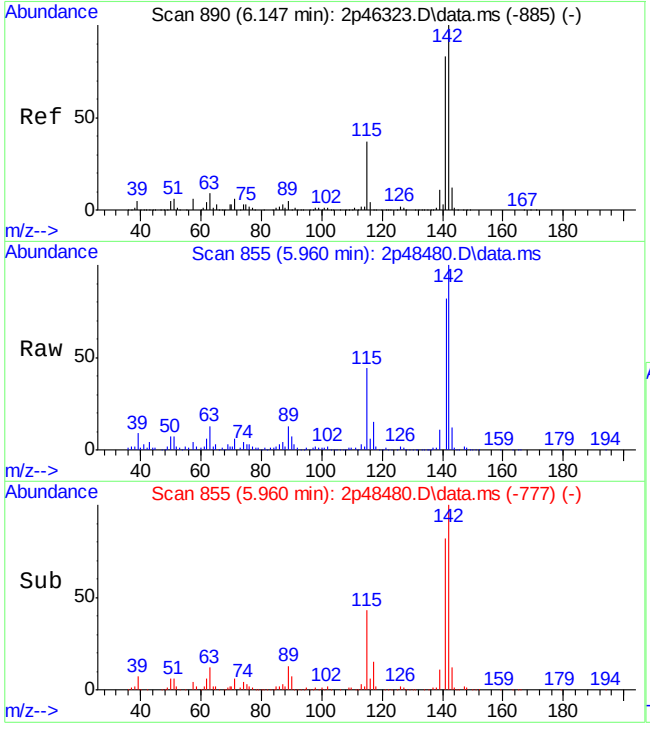


#38
Naphthalene
Concen: 9.95 ppm
RT: 5.388 min Scan# 748
Delta R.T. -0.085 min
Lab File: 2p48480.D
Acq: 11 May 2015 10:08 pm

Tgt Ion:128 Resp: 110745

Ion	Ratio	Lower	Upper
128	100		
129	10.8	0.0	41.0
127	13.6	0.0	43.4

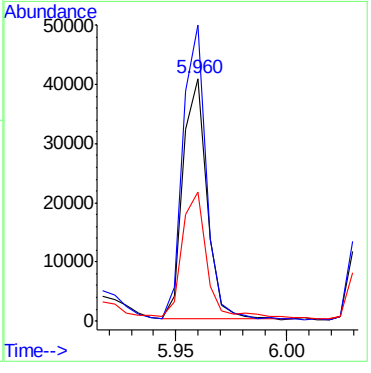


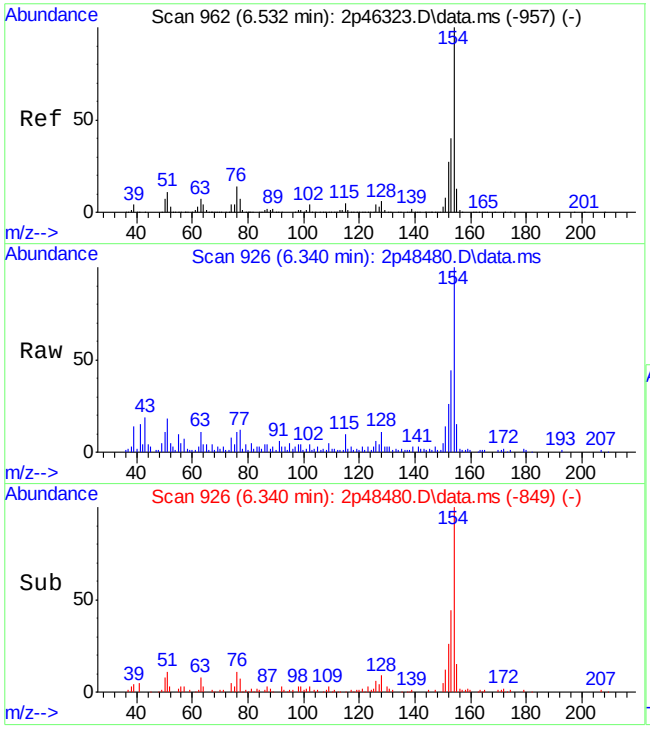


#44
2-Methylnaphthalene
Concen: 4.56 ppm
RT: 5.960 min Scan# 855
Delta R.T. -0.085 min
Lab File: 2p48480.D
Acq: 11 May 2015 10:08 pm

Tgt Ion:141 Resp: 30072

Ion	Ratio	Lower	Upper
141	100		
142	122.2	85.1	145.1
115	52.1	6.3	66.3

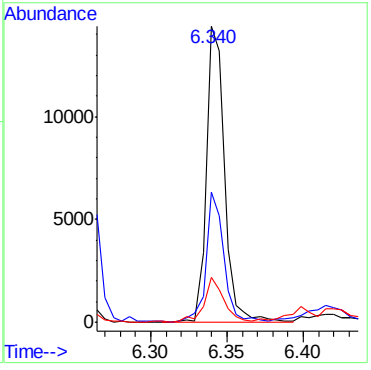


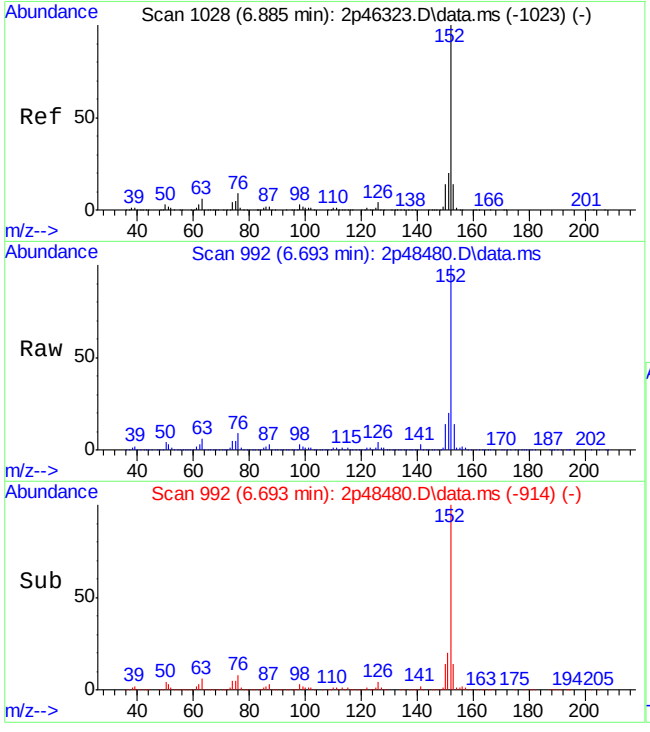


#53
Biphenyl
Concen: 1.24 ppm
RT: 6.340 min Scan# 926
Delta R.T. -0.091 min
Lab File: 2p48480.D
Acq: 11 May 2015 10:08 pm

Tgt Ion:154 Resp: 11866

Ion	Ratio	Lower	Upper
154	100		
153	43.2	12.1	72.1
155	13.6	0.0	43.1

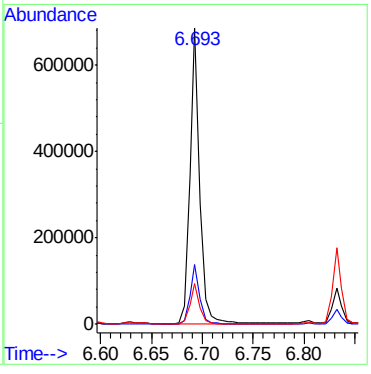


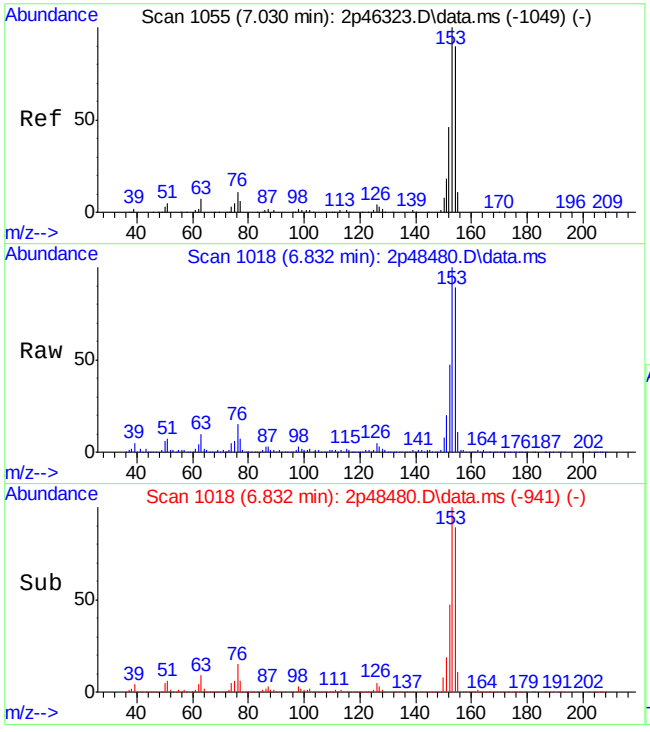


#56
Acenaphthylene
Concen: 39.85 ppm
RT: 6.693 min Scan# 992
Delta R.T. -0.085 min
Lab File: 2p48480.D
Acq: 11 May 2015 10:08 pm

Tgt Ion:152 Resp: 475317

Ion	Ratio	Lower	Upper
152	100		
151	20.2	0.0	49.7
153	13.5	0.0	42.8

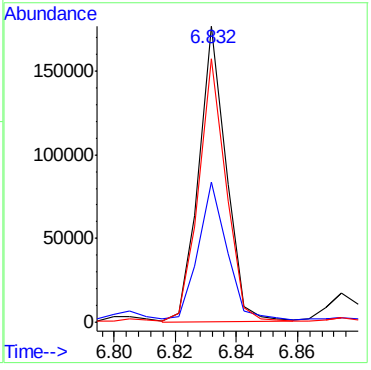


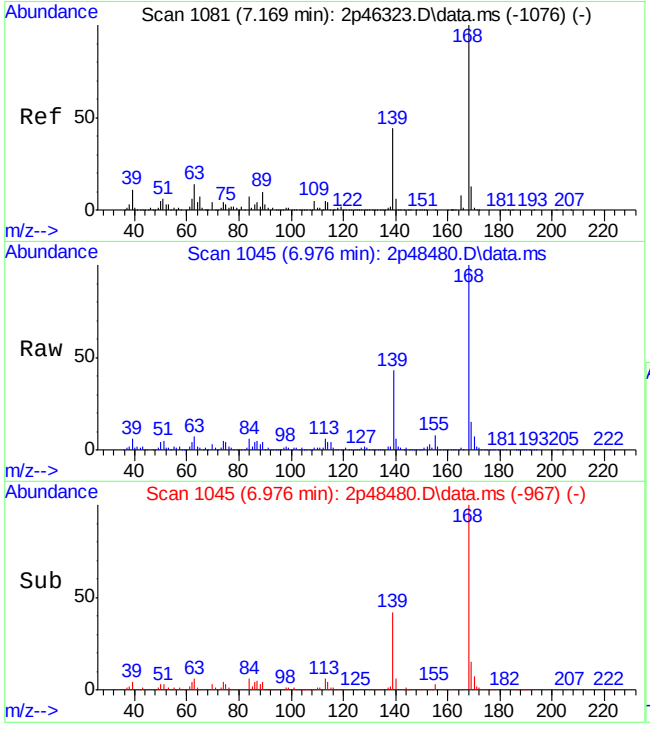


#59
Acenaphthene
Concen: 14.71 ppm
RT: 6.832 min Scan# 1018
Delta R.T. -0.091 min
Lab File: 2p48480.D
Acq: 11 May 2015 10:08 pm

Tgt Ion:153 Resp: 109384

Ion	Ratio	Lower	Upper
153	100		
152	46.6	16.9	76.9
154	89.0	58.3	118.3

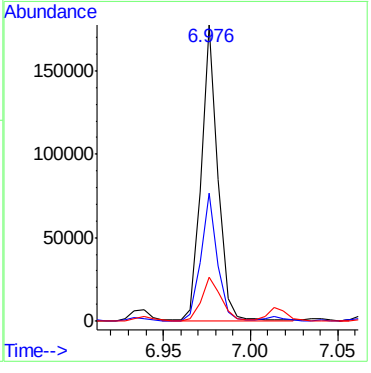


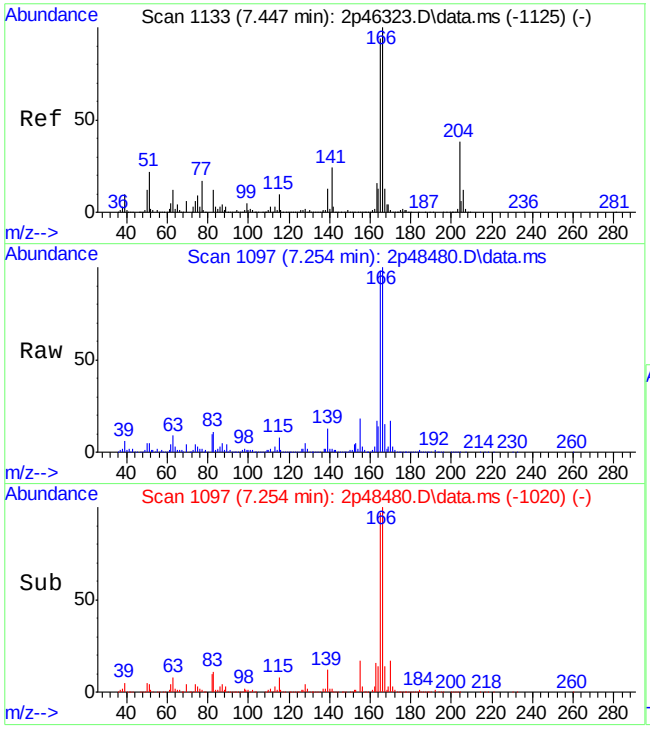


#62
Dibenzofuran
Concen: 11.80 ppm
RT: 6.976 min Scan# 1045
Delta R.T. -0.085 min
Lab File: 2p48480.D
Acq: 11 May 2015 10:08 pm

Tgt Ion:168 Resp: 117479

Ion	Ratio	Lower	Upper
168	100		
139	43.0	3.6	63.6
169	14.2	0.0	43.3

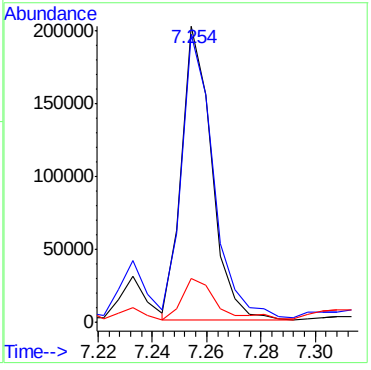


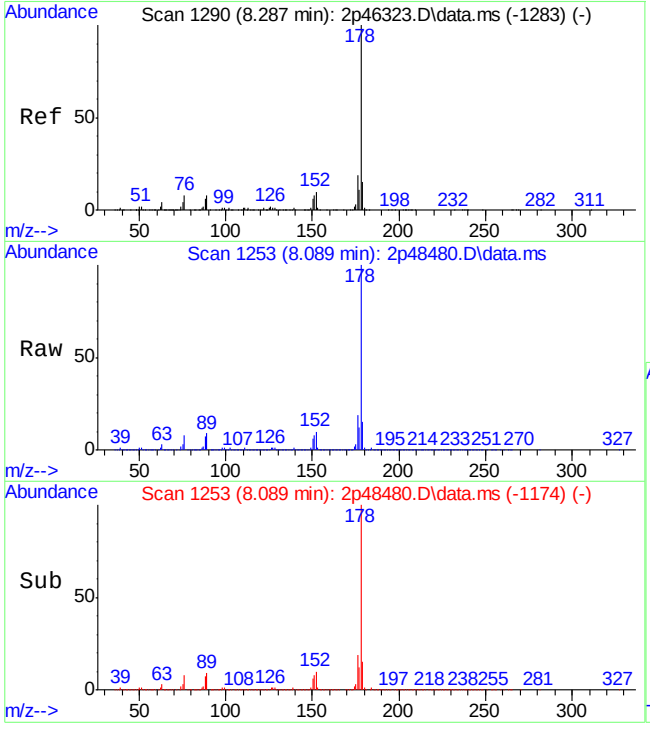


#66
Fluorene
Concen: 19.00 ppm
RT: 7.254 min Scan# 1097
Delta R.T. -0.091 min
Lab File: 2p48480.D
Acq: 11 May 2015 10:08 pm

Tgt Ion:166 Resp: 154851

Ion	Ratio	Lower	Upper
166	100		
165	96.6	65.0	125.0
167	14.0	0.0	43.9

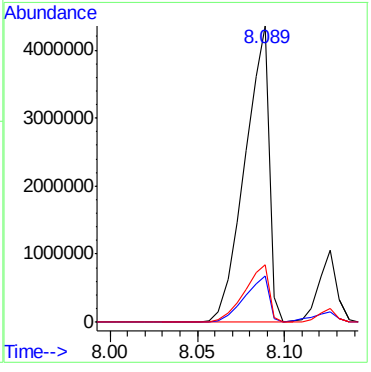


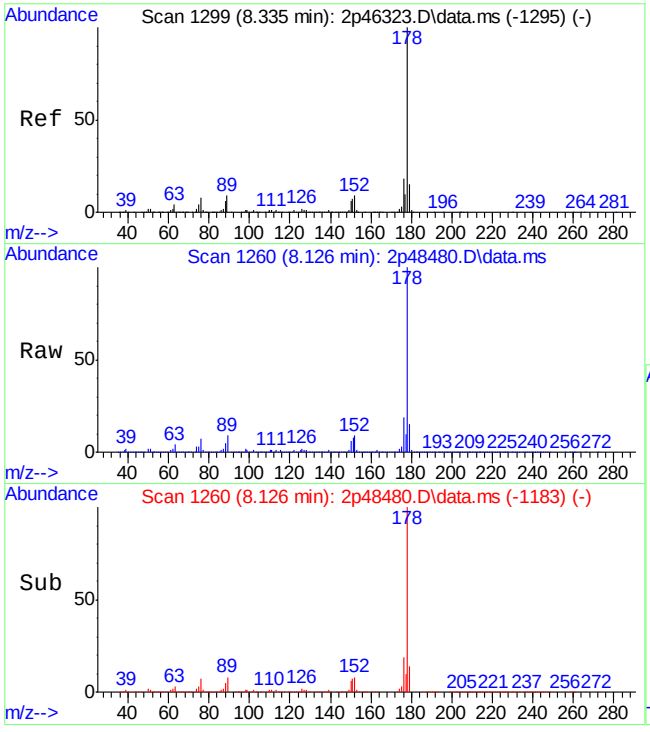


#77
Phenanthrene
Concen: 408.75 ppm
RT: 8.089 min Scan# 1253
Delta R.T. -0.080 min
Lab File: 2p48480.D
Acq: 11 May 2015 10:08 pm

Tgt Ion:178 Resp: 4222496

Ion	Ratio	Lower	Upper
178	100		
179	15.2	0.0	45.4
176	19.5	0.0	48.5

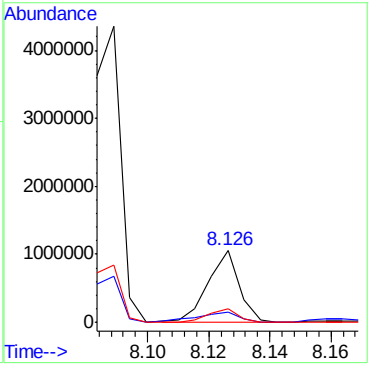


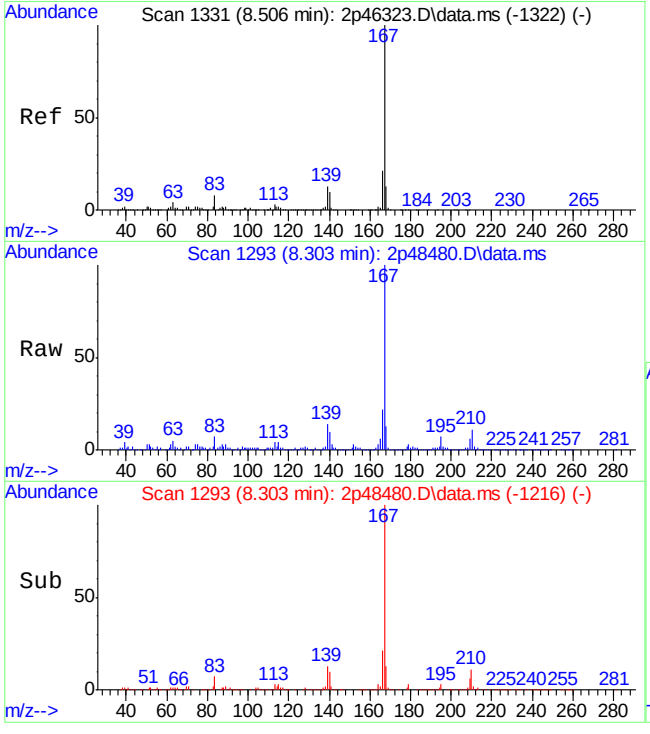


#78
Anthracene
Concen: 71.51 ppm
RT: 8.126 min Scan# 1260
Delta R.T. -0.091 min
Lab File: 2p48480.D
Acq: 11 May 2015 10:08 pm

Tgt Ion:178 Resp: 747070

Ion	Ratio	Lower	Upper
178	100		
179	13.6	0.0	45.2
176	19.0	0.0	48.1

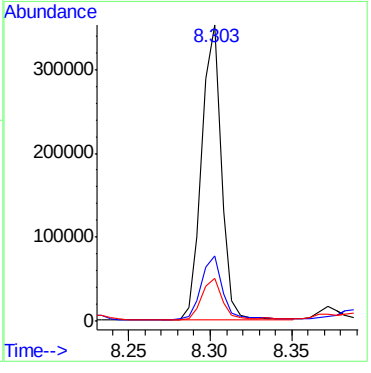


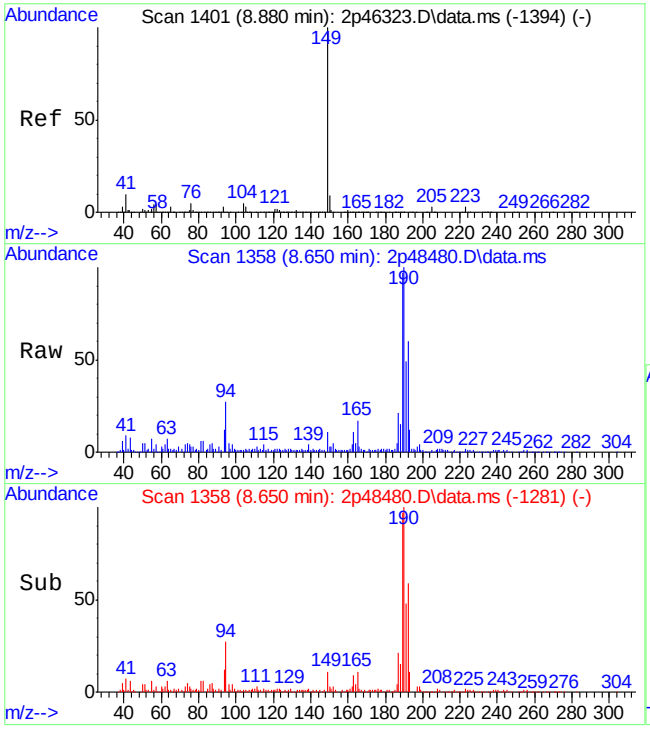


#79
Carbazole
Concen: 29.51 ppm
RT: 8.303 min Scan# 1293
Delta R.T. -0.091 min
Lab File: 2p48480.D
Acq: 11 May 2015 10:08 pm

Tgt Ion:167 Resp: 297778

Ion	Ratio	Lower	Upper
167	100		
166	21.3	0.0	50.6
139	13.8	0.0	41.7

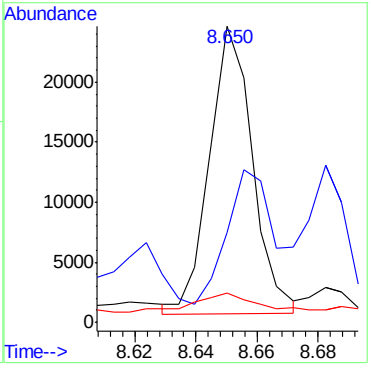


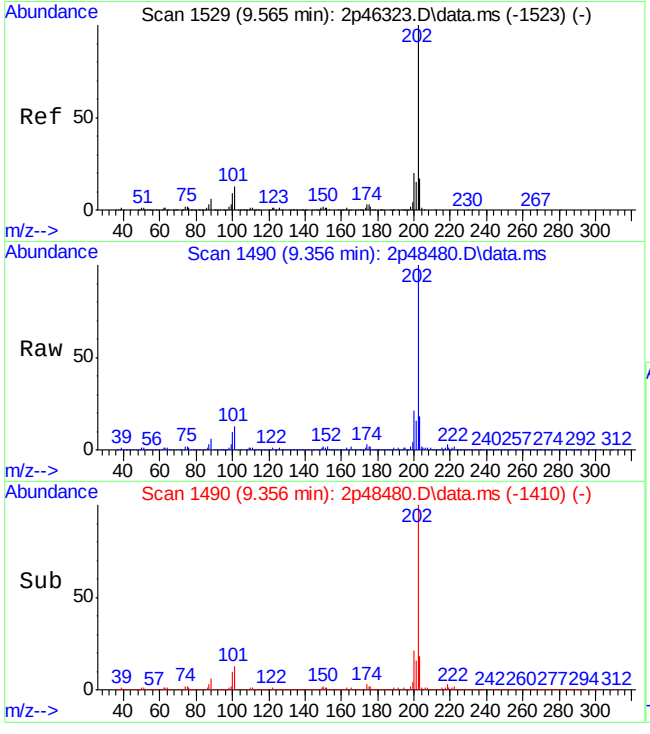


#80
Di-n-butylphthalate
Concen: 2.07 ppm
RT: 8.650 min Scan# 1358
Delta R.T. -0.091 min
Lab File: 2p48480.D
Acq: 11 May 2015 10:08 pm

Tgt Ion:149 Resp: 23348

Ion	Ratio	Lower	Upper
149	100		
150	9.9	0.0	38.8
104	5.4	0.0	34.0

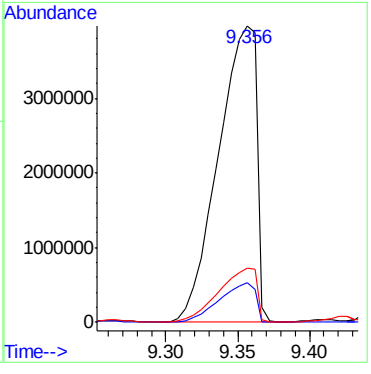


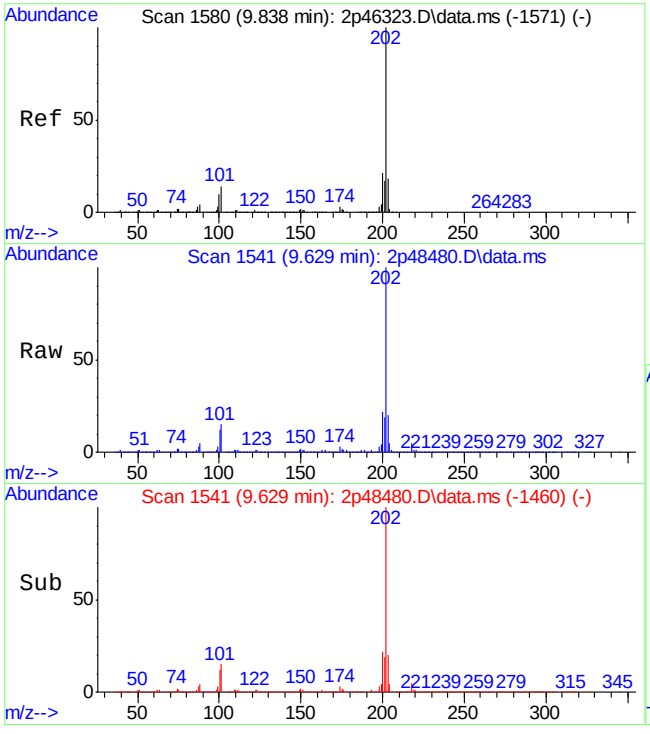


#81
Fluoranthene
Concen: 594.09 ppm
RT: 9.356 min Scan# 1490
Delta R.T. -0.075 min
Lab File: 2p48480.D
Acq: 11 May 2015 10:08 pm

Tgt Ion:202 Resp: 7349513

Ion	Ratio	Lower	Upper
202	100		
101	13.4	0.0	43.1
203	18.1	0.0	47.4

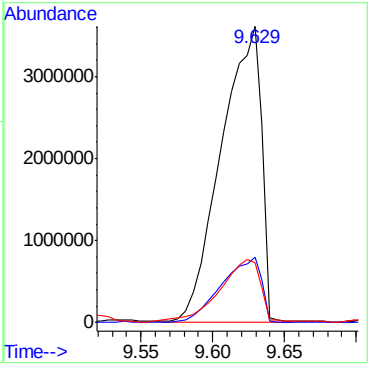


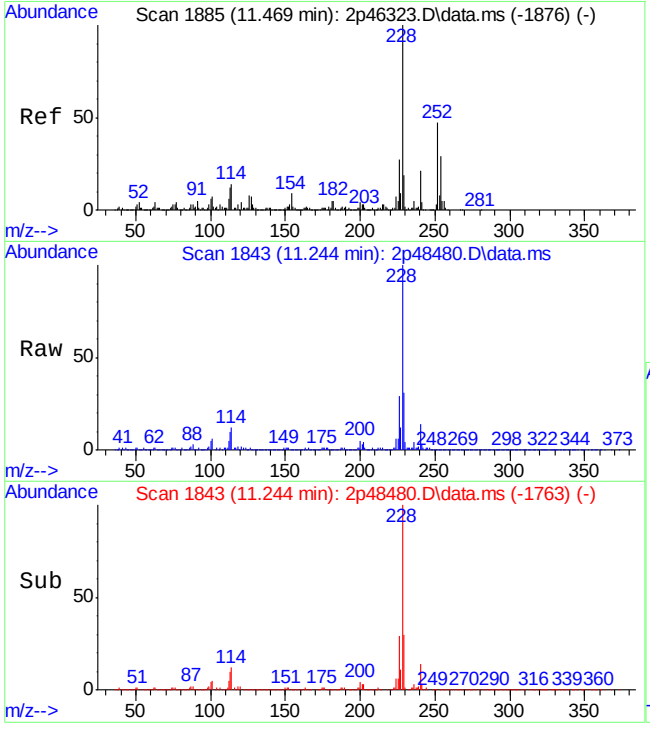


#84
Pyrene
Concen: 477.60 ppm
RT: 9.629 min Scan# 1541
Delta R.T. -0.069 min
Lab File: 2p48480.D
Acq: 11 May 2015 10:08 pm

Tgt Ion:202 Resp: 7029752

Ion	Ratio	Lower	Upper
202	100		
200	21.8	0.0	51.0
203	19.7	0.0	47.4

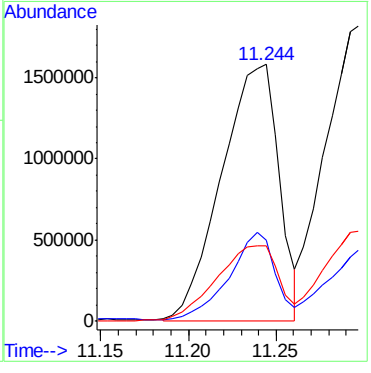


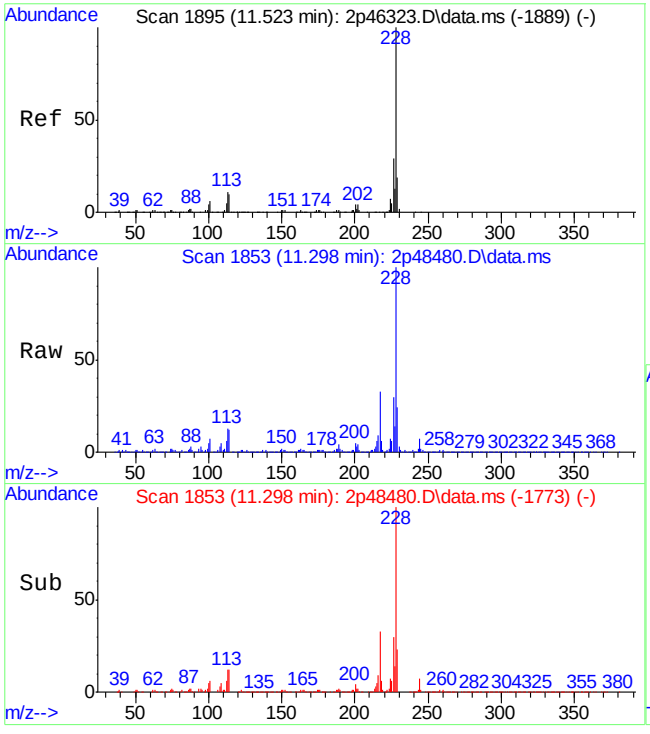


#88
Benzo[a]anthracene
Concen: 260.10 ppm m
RT: 11.244 min Scan# 1843
Delta R.T. -0.075 min
Lab File: 2p48480.D
Acq: 11 May 2015 10:08 pm

Tgt Ion:228 Resp: 3621684

Ion	Ratio	Lower	Upper
228	100		
229	31.4	0.0	50.1
226	29.1	0.0	57.2

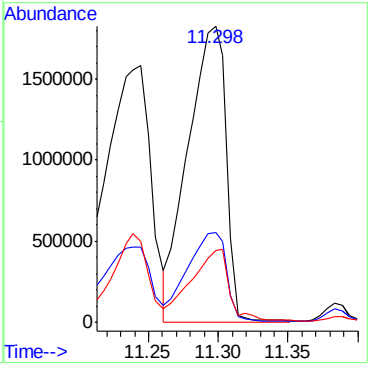


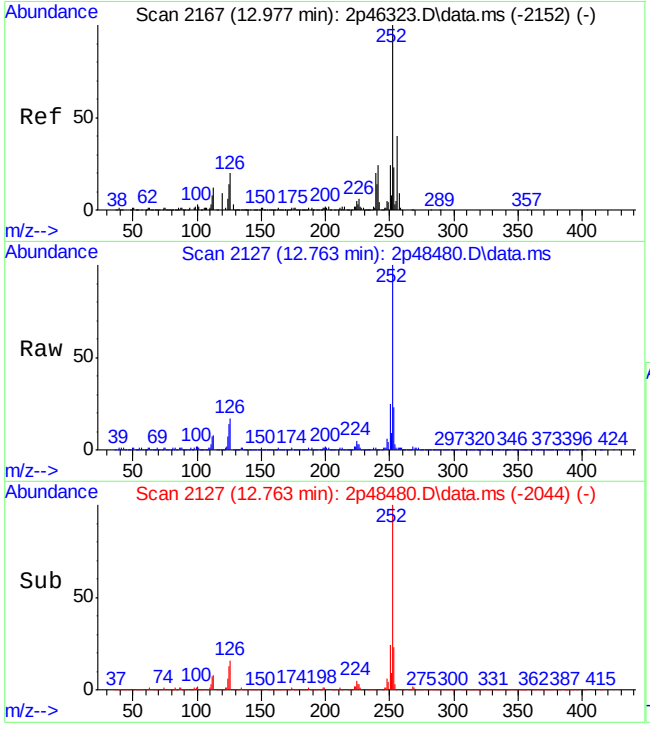


#90
Chrysene
Concen: 280.24 ppm m
RT: 11.298 min Scan# 1853
Delta R.T. -0.075 min
Lab File: 2p48480.D
Acq: 11 May 2015 10:08 pm

Tgt Ion:228 Resp: 3484738

Ion	Ratio	Lower	Upper
228	100		
226	30.3	0.0	58.8
229	24.5	0.0	49.1

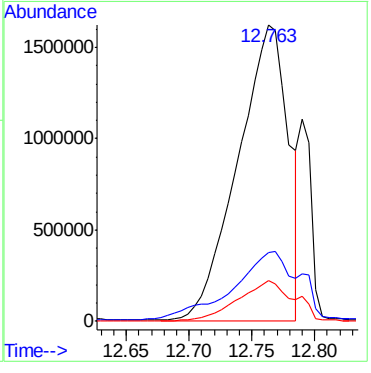




#94
Benzo[b]fluoranthene
Concen: 368.84 ppm m
RT: 12.763 min Scan# 2127
Delta R.T. -0.059 min
Lab File: 2p48480.D
Acq: 11 May 2015 10:08 pm

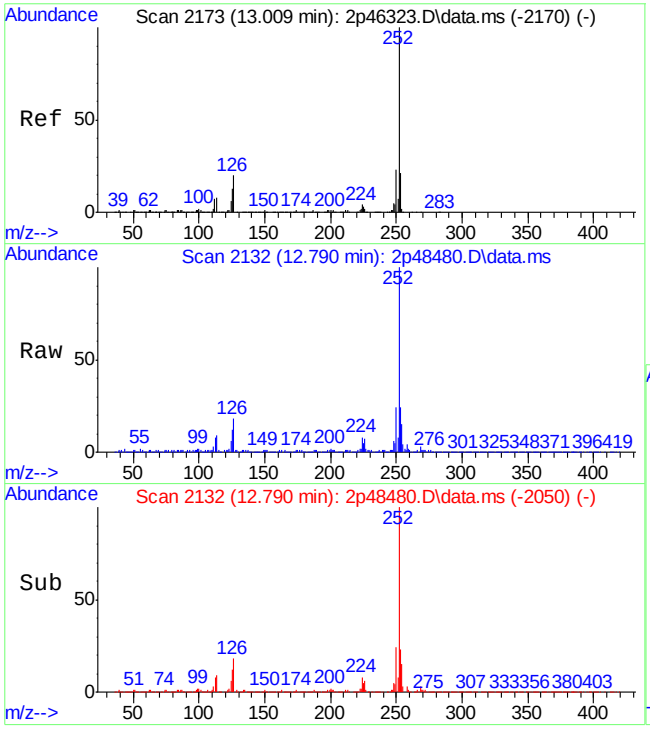
Tgt Ion:252 Resp: 4545599

Ion	Ratio	Lower	Upper
252	100		
253	23.0	0.0	52.1
125	13.6	0.0	42.9



9.1.5

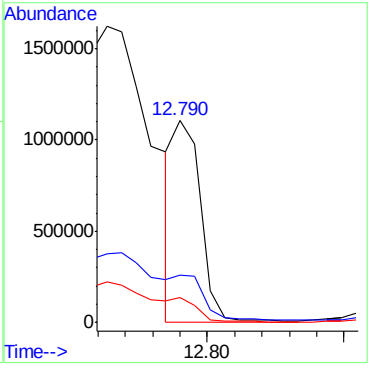
9

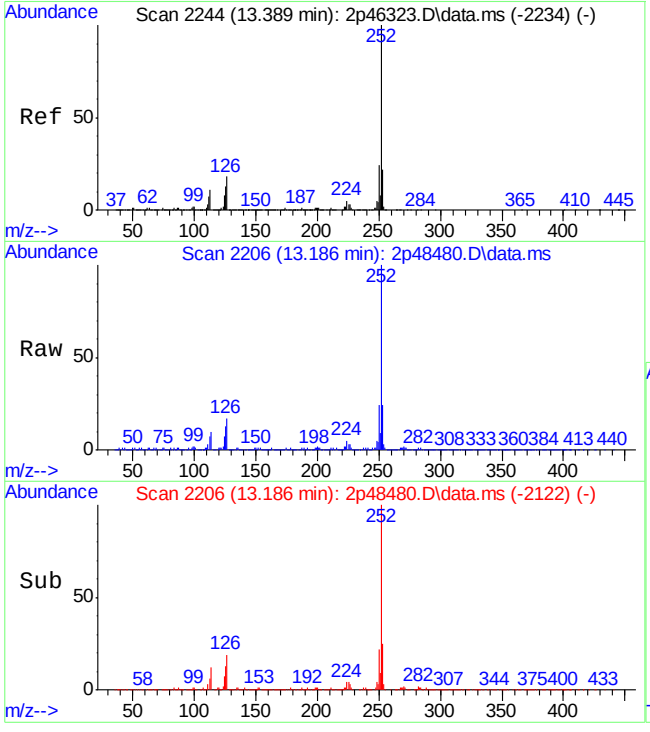


#95
Benzo[k]fluoranthene
Concen: 64.16 ppm m
RT: 12.790 min Scan# 2132
Delta R.T. -0.064 min
Lab File: 2p48480.D
Acq: 11 May 2015 10:08 pm

Tgt Ion:252 Resp: 748653

Ion	Ratio	Lower	Upper
252	100		
253	23.6	0.0	51.5
125	12.4	0.0	42.7

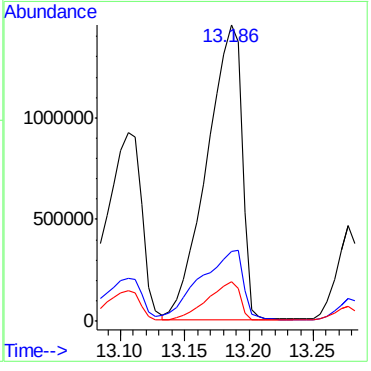


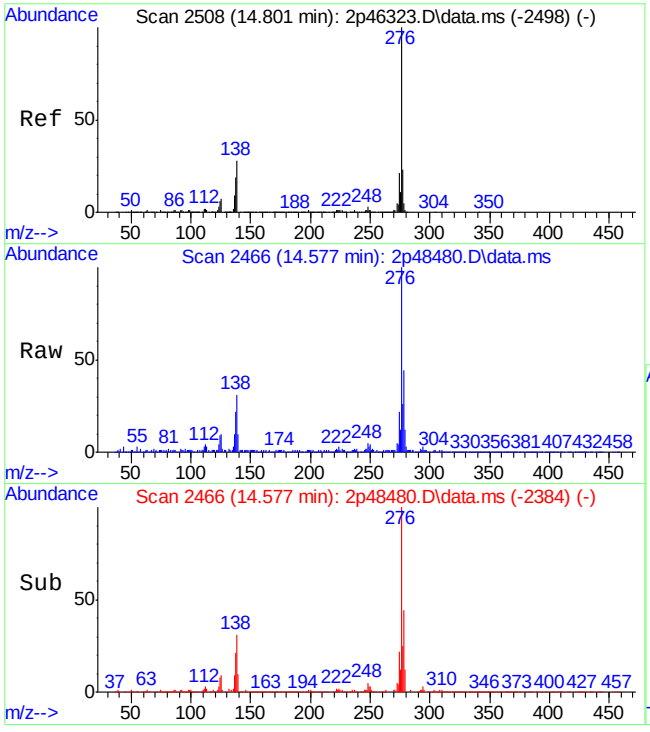


#96
Benzo[a]pyrene
Concen: 258.23 ppm
RT: 13.186 min Scan# 2206
Delta R.T. -0.053 min
Lab File: 2p48480.D
Acq: 11 May 2015 10:08 pm

Tgt Ion:252 Resp: 2751760

Ion	Ratio	Lower	Upper
252	100		
253	22.7	0.0	51.8
125	12.9	0.0	45.1

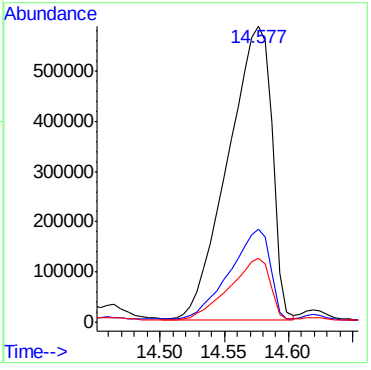


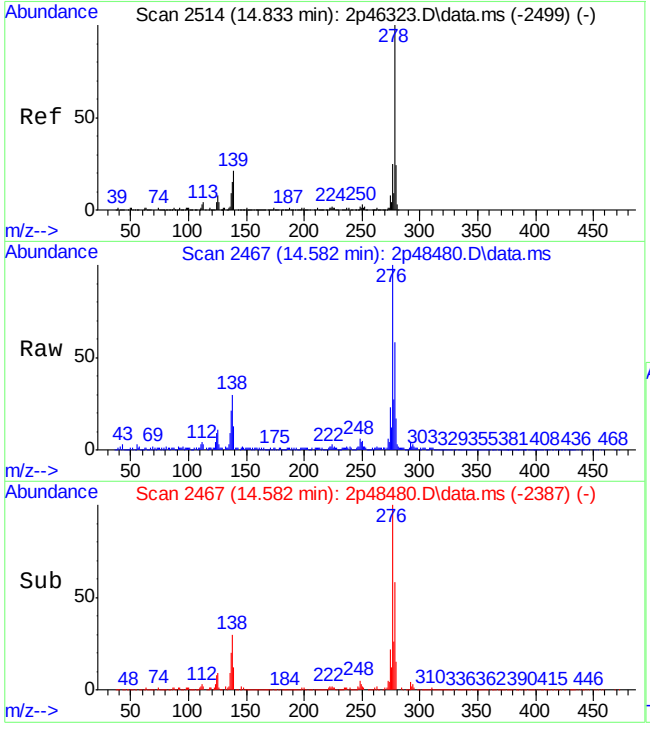


#97
Indeno[1,2,3-cd]pyrene
Concen: 114.05 ppm
RT: 14.577 min Scan# 2466
Delta R.T. -0.064 min
Lab File: 2p48480.D
Acq: 11 May 2015 10:08 pm

Tgt Ion:276 Resp: 1392904

Ion	Ratio	Lower	Upper
276	100		
138	30.8	1.0	61.0
137	21.1	0.0	52.7

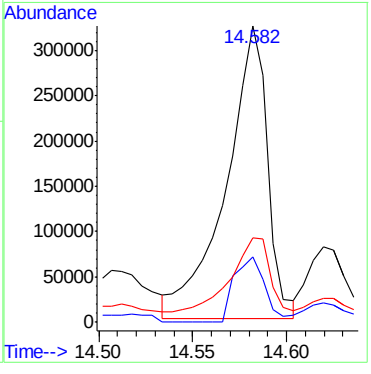


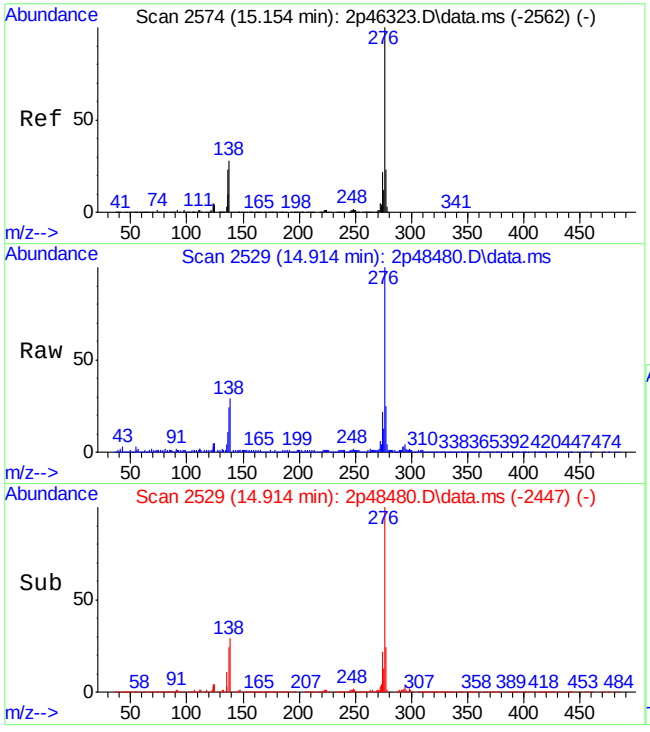


#99
Dibenz[a,h]anthracene
Concen: 50.07 ppm
RT: 14.582 min Scan# 2467
Delta R.T. -0.075 min
Lab File: 2p48480.D
Acq: 11 May 2015 10:08 pm

Tgt Ion:278 Resp: 496528

Ion	Ratio	Lower	Upper
278	100		
139	22.5	0.0	56.2
279	26.9	0.0	54.2

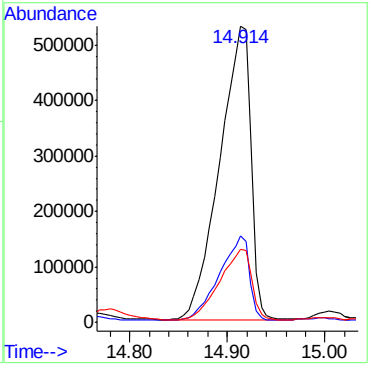




#101
Benzo[g,h,i]perylene
Concen: 118.08 ppm
RT: 14.914 min Scan# 2529
Delta R.T. -0.064 min
Lab File: 2p48480.D
Acq: 11 May 2015 10:08 pm

Tgt Ion:276 Resp: 1190445

Ion	Ratio	Lower	Upper
276	100		
138	28.6	3.5	63.5
277	24.0	0.0	53.3



9.1.5

9

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48480.D
Acq On : 11 May 2015 10:08 pm
Operator : sarad
Sample : jb94209-3
Misc : op83787,e2p2069,30.5
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: 2p48480.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.810	449	453	469	rBV	701595	608425	3.10%	0.264%
2	4.136	510	514	532	rBV2	441327	672928	3.42%	0.292%
3	4.318	542	548	559	rVB	1245902	854289	4.35%	0.370%
4	4.789	629	636	643	rBV	626745	500116	2.54%	0.217%
5	5.372	739	745	753	rBV2	1311592	1216377	6.19%	0.527%
6	6.260	902	911	919	rBV	1215567	920775	4.69%	0.399%
7	6.693	988	992	1001	rBV	1564310	1105934	5.63%	0.479%
8	6.805	1006	1013	1016	rBV	1670945	1237216	6.30%	0.536%
9	6.976	1042	1045	1050	rBV2	501267	457232	2.33%	0.198%
10	7.254	1095	1097	1103	rVB	873369	638863	3.25%	0.277%
11	7.468	1130	1137	1140	rBV2	627515	820301	4.17%	0.356%
12	7.709	1173	1182	1190	rBV4	312264	640885	3.26%	0.278%
13	7.832	1201	1205	1207	rBV2	477482	564079	2.87%	0.245%
14	7.885	1213	1215	1219	rVB2	724714	610942	3.11%	0.265%
15	7.923	1219	1222	1225	rBV	502624	486264	2.47%	0.211%
16	8.089	1242	1253	1256	rBV	10299999	11608627	59.07%	5.033%
17	8.126	1256	1260	1263	rVV	2487436	1874637	9.54%	0.813%
18	8.303	1288	1293	1297	rBV2	1017452	1212582	6.17%	0.526%
19	8.383	1303	1308	1313	rVB7	322234	501885	2.55%	0.218%
20	8.436	1313	1318	1325	rVB3	322459	498538	2.54%	0.216%
21	8.549	1335	1339	1341	rVV	1551184	1444068	7.35%	0.626%
22	8.575	1341	1344	1348	rVB	2630133	2076226	10.56%	0.900%
23	8.624	1348	1353	1355	rBV	689939	597087	3.04%	0.259%
24	8.656	1355	1359	1362	rVV	2505472	2603260	13.25%	1.129%
25	8.682	1362	1364	1370	rVB	1629967	1383205	7.04%	0.600%
26	8.747	1370	1376	1381	rBV4	227553	468327	2.38%	0.203%
27	8.854	1392	1396	1402	rVB2	1807834	2423011	12.33%	1.051%
28	8.907	1402	1406	1410	rVB	1362165	1553485	7.90%	0.674%
29	9.030	1423	1429	1434	rBV2	2944006	3429850	17.45%	1.487%
30	9.153	1444	1452	1455	rBV2	1133162	1772034	9.02%	0.768%
31	9.191	1455	1459	1462	rVV2	384115	463558	2.36%	0.201%
32	9.271	1468	1474	1479	rVB3	1142984	1877174	9.55%	0.814%
33	9.356	1479	1490	1494	rBV	10199286	18410439	93.68%	7.982%
34	9.399	1494	1498	1504	rBV3	1311951	1763480	8.97%	0.765%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48480.D
Acq On : 11 May 2015 10:08 pm
Operator : sarad
Sample : jb94209-3
Misc : op83787,e2p2069,30.5
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

35	9.447	1504	1507	1514	rVB2	743706	884603	4.50%	0.384%
36	9.624	1527	1540	1545	rVB2	10258841	19651987	100.00%	8.520%
37	9.677	1545	1550	1552	rBV2	487068	536596	2.73%	0.233%
38	9.704	1552	1555	1560	rVB2	518995	670422	3.41%	0.291%
39	9.768	1560	1567	1571	rBV2	2273465	2992929	15.23%	1.298%
40	9.816	1571	1576	1584	rVB3	1345987	1845866	9.39%	0.800%
41	9.902	1584	1592	1599	rVB2	1241374	2008084	10.22%	0.871%
42	9.998	1599	1610	1616	rBV2	4357704	7933657	40.37%	3.440%
43	10.041	1616	1618	1623	rVB	1567772	1549006	7.88%	0.672%
44	10.121	1629	1633	1637	rVB2	543369	569902	2.90%	0.247%
45	10.175	1637	1643	1655	rBV3	2943424	5947294	30.26%	2.579%
46	10.287	1655	1664	1667	rBV3	1126509	1453981	7.40%	0.630%
47	10.324	1667	1671	1675	rBV	945354	1042425	5.30%	0.452%
48	10.378	1675	1681	1685	rVB3	351127	696742	3.55%	0.302%
49	10.437	1685	1692	1697	rBV4	419125	726635	3.70%	0.315%
50	10.485	1697	1701	1709	rVB5	415361	890943	4.53%	0.386%
51	10.565	1709	1716	1718	rBV5	569447	910327	4.63%	0.395%
52	10.592	1718	1721	1728	rVB5	379939	669140	3.40%	0.290%
53	10.742	1736	1749	1756	rBV	1920185	3503424	17.83%	1.519%
54	10.865	1766	1772	1775	rBV	1114472	1619189	8.24%	0.702%
55	10.902	1775	1779	1783	rVB2	1666749	2290767	11.66%	0.993%
56	10.934	1783	1785	1788	rVB	686350	575256	2.93%	0.249%
57	10.972	1788	1792	1796	rVB2	949348	1216817	6.19%	0.528%
58	11.052	1797	1807	1810	rBV	1806495	3313484	16.86%	1.437%
59	11.239	1828	1842	1846	rBV3	5114629	11767902	59.88%	5.102%
60	11.298	1846	1853	1859	rVV2	7031704	12140445	61.78%	5.264%
61	11.383	1865	1869	1872	rVB2	496317	541069	2.75%	0.235%
62	11.469	1879	1885	1889	rVV	909037	1466623	7.46%	0.636%
63	11.507	1889	1892	1894	rVV3	467683	668279	3.40%	0.290%
64	11.544	1896	1899	1906	rVV2	628791	1221572	6.22%	0.530%
65	11.619	1906	1913	1918	rVV2	664066	1163320	5.92%	0.504%
66	11.662	1918	1921	1924	rVV3	344809	451648	2.30%	0.196%
67	11.694	1924	1927	1934	rVV5	261739	465525	2.37%	0.202%
68	11.822	1943	1951	1955	rBV	1679963	2694791	13.71%	1.168%
69	11.865	1955	1959	1964	rVV2	1133296	1473026	7.50%	0.639%
70	11.913	1964	1968	1971	rVV4	335217	508612	2.59%	0.221%
71	11.956	1971	1976	1979	rVV3	635228	955990	4.86%	0.414%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48480.D
Acq On : 11 May 2015 10:08 pm
Operator : sarad
Sample : jb94209-3
Misc : op83787,e2p2069,30.5
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

72	11.999	1979	1984	1990	rVV5	535564	1099218	5.59%	0.477%
73	12.057	1990	1995	1999	rVB3	304249	468792	2.39%	0.203%
74	12.122	1999	2007	2016	rVB3	397077	864508	4.40%	0.375%
75	12.314	2037	2043	2053	rVB3	369389	814652	4.15%	0.353%
76	12.443	2062	2067	2072	rVB4	379476	623596	3.17%	0.270%
77	12.544	2073	2086	2096	rBV4	803339	2056120	10.46%	0.891%
78	12.769	2106	2128	2138	rBV2	4647440	16475708	83.84%	7.143%
79	12.876	2138	2148	2157	rVV3	1063045	1821062	9.27%	0.790%
80	13.004	2164	2172	2182	rBV4	352134	1483926	7.55%	0.643%
81	13.106	2182	2191	2196	rBV	2777698	5210452	26.51%	2.259%
82	13.186	2196	2206	2212	rVV	4000367	8222861	41.84%	3.565%
83	13.245	2212	2217	2220	rVV	792612	1047657	5.33%	0.454%
84	13.277	2220	2223	2227	rVV	1171322	1208311	6.15%	0.524%
85	13.448	2246	2255	2259	rBV5	287614	697130	3.55%	0.302%
86	13.587	2277	2281	2285	rVV2	421662	645739	3.29%	0.280%
87	13.785	2313	2318	2330	rVV4	377004	918548	4.67%	0.398%
88	13.940	2343	2347	2359	rVB7	220474	493901	2.51%	0.214%
89	14.272	2400	2409	2415	rVV3	363717	1099212	5.59%	0.477%
90	14.331	2415	2420	2429	rVV4	232600	823184	4.19%	0.357%
91	14.416	2429	2436	2442	rVV6	570815	1366601	6.95%	0.593%
92	14.582	2455	2467	2471	rVV2	2536832	5430759	27.63%	2.355%
93	14.694	2480	2488	2491	rBV	491263	876763	4.46%	0.380%
94	14.742	2491	2497	2510	rVV	777781	1802222	9.17%	0.781%
95	14.844	2510	2516	2519	rVV	257380	469504	2.39%	0.204%
96	14.914	2519	2529	2535	rVV	1675716	3934769	20.02%	1.706%
97	15.079	2550	2560	2564	rVV2	496887	1078686	5.49%	0.468%
98	15.491	2632	2637	2650	rVB5	154548	509682	2.59%	0.221%
99	15.780	2681	2691	2715	rVB10	186126	1090320	5.55%	0.473%
100	16.609	2829	2846	2851	rBV	482030	1698942	8.65%	0.737%

Sum of corrected areas: 230647202

LSC Report - Integrated Chromatogram

```
Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48480.D
Acq On    : 11 May 2015  10:08 pm
Operator  : sarad
Sample    : jb94209-3
Misc      : op83787,e2p2069,30.5
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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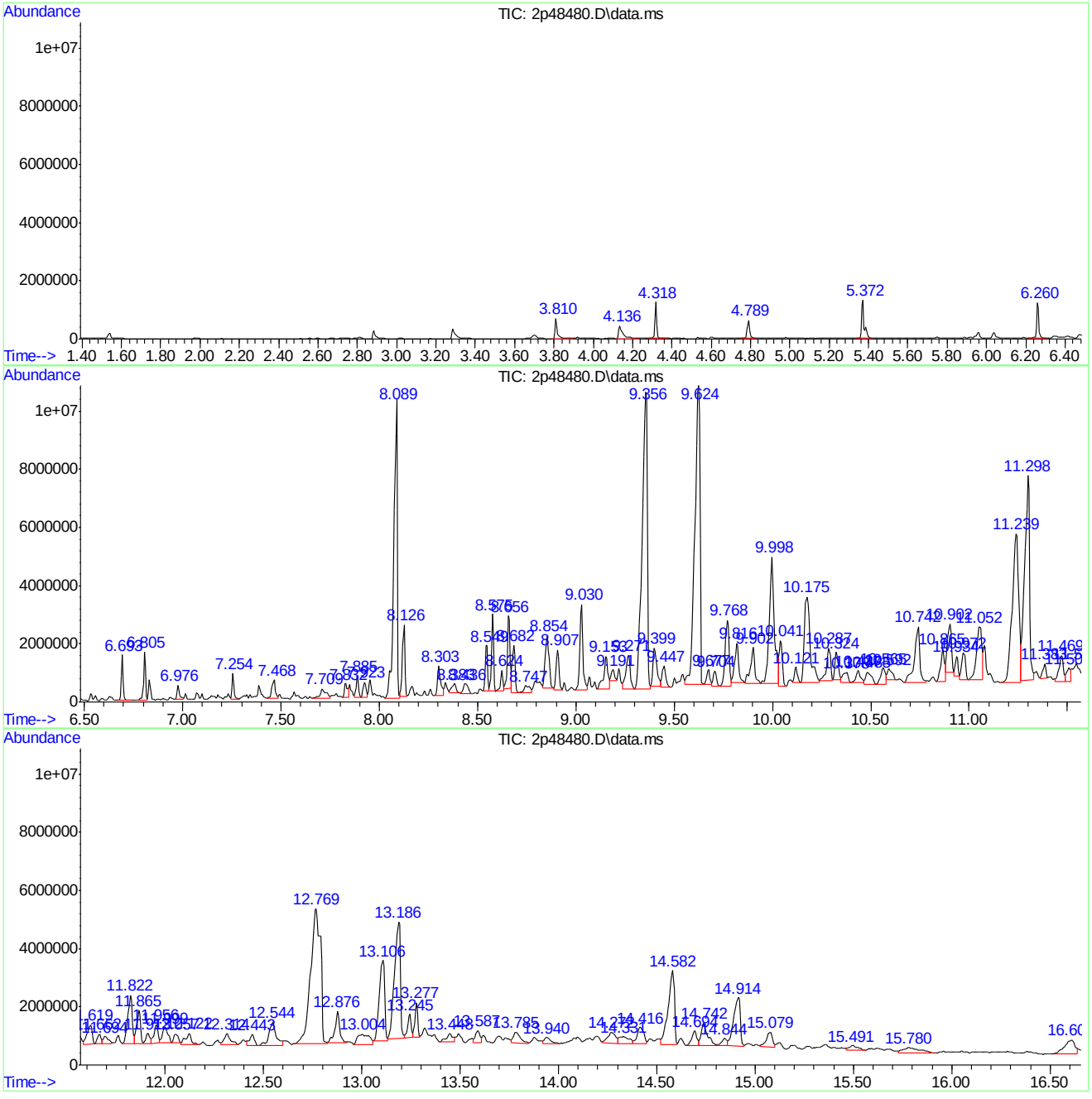


Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48480.D
Acq On : 11 May 2015 10:08 pm
Operator : sarad
Sample : jb94209-3
Misc : op83787,e2p2069,30.5
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

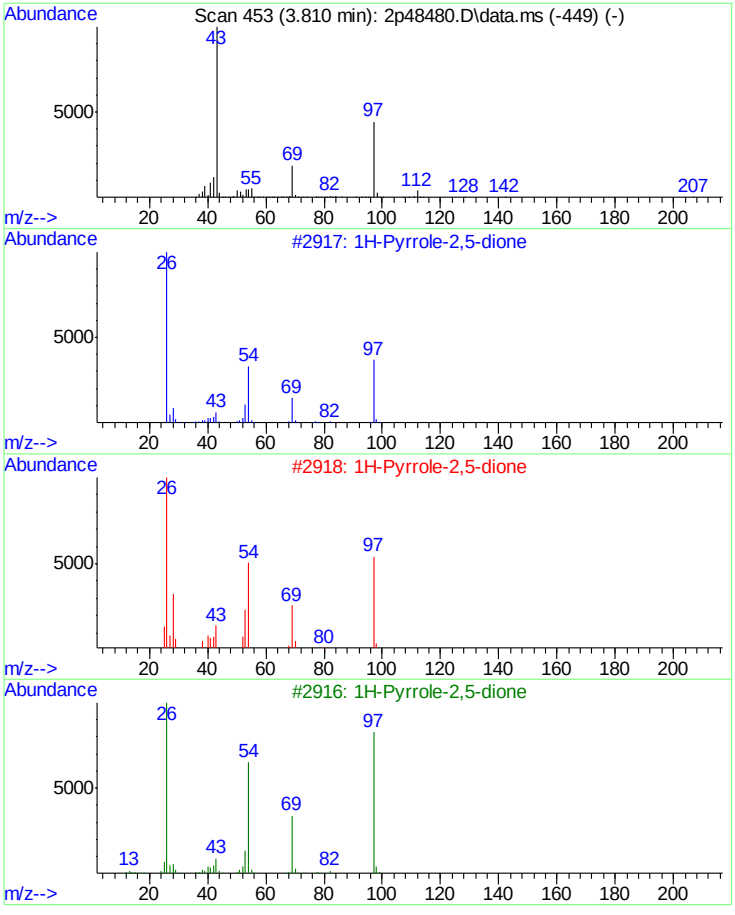
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

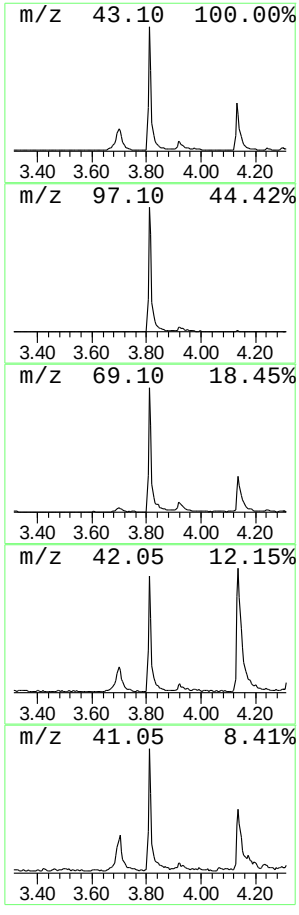
****

Peak Number 1 unknown Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.810	28.49 ppm	608425	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	38
2	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	32
3	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	9
4	4-Penten-2-one, 4-methyl-	98	C6H10O	003744-02-3	7
5	Acetyl cyanide	69	C3H3NO	000631-57-2	7





Library Search Compound Report

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Data File : 2p48480.D
Acq On    : 11 May 2015  10:08 pm
Operator  : sarad
Sample    : jb94209-3
Misc      : op83787,e2p2069,30.5
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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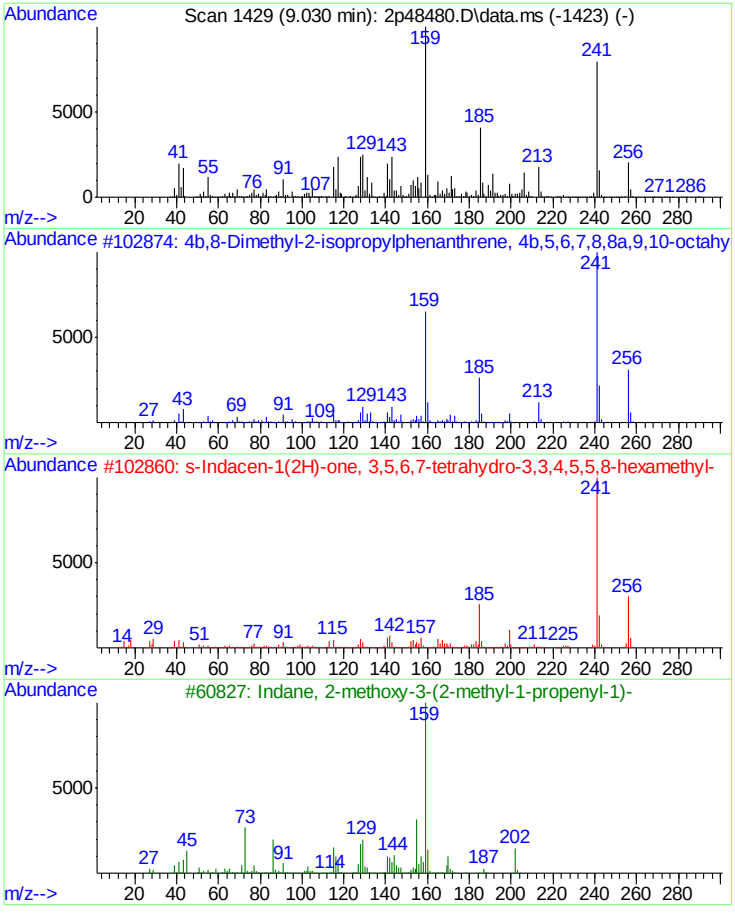
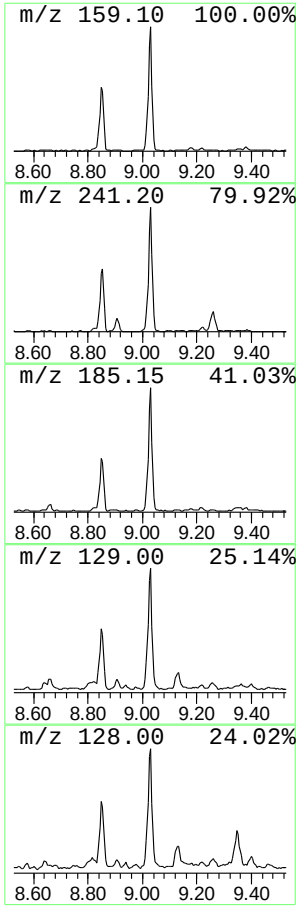
Peak Number 2 unknown Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.030	11.82 ppm	3429850	Phenanthrene-d10	8.051

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4b,8-Dimethyl-2-isopropylphenant...	256	C19H28	1000197-14-1	93
2	s-Indacen-1(2H)-one, 3,5,6,7-tet...	256	C18H24O	038754-94-8	42
3	Indane, 2-methoxy-3-(2-methyl-1-...	202	C14H18O	1000196-88-7	30
4	As-Indacene, 1,2,3,6,7,8-hexahyd...	256	C19H28	017465-47-3	22
5	Uracil, 5-(p-cyanophenyl)-1,3-di...	241	C13H11N3O2	1000164-78-4	18





Library Search Compound Report

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Data File : 2p48480.D
Acq On    : 11 May 2015  10:08 pm
Operator  : sarad
Sample    : jb94209-3
Misc      : op83787,e2p2069,30.5
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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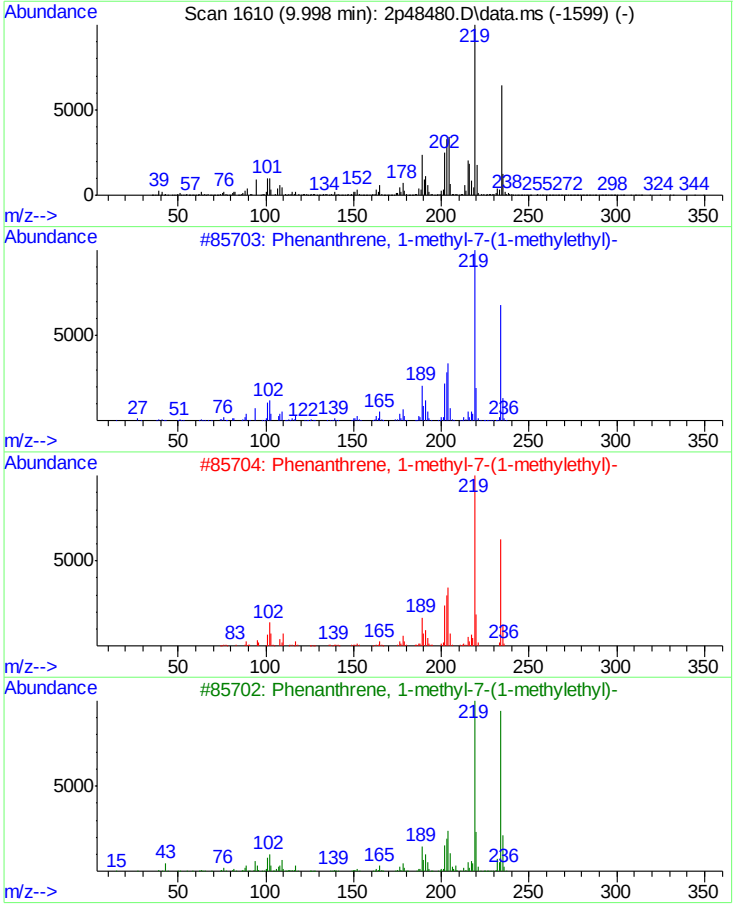
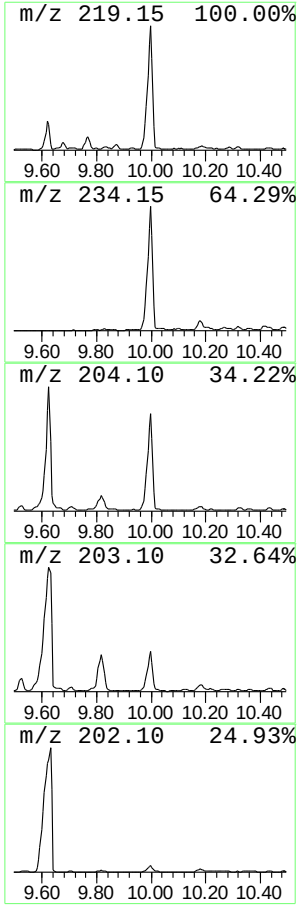
Peak Number 3 Phenanthrene, 1-methyl-7-(1... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.998	26.97 ppm	7933660	Chrysene-d12	11.255

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-7-(1-meth...	234	C18H18	000483-65-8	99
2	Phenanthrene, 1-methyl-7-(1-meth...	234	C18H18	000483-65-8	94
3	Phenanthrene, 1-methyl-7-(1-meth...	234	C18H18	000483-65-8	89
4	Phenanthrene, 1-methyl-7-(1-meth...	234	C18H18	000483-65-8	86
5	Phenanthrene, 2,4,5,7-tetramethyl-	234	C18H18	007396-38-5	86





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48480.D
Acq On : 11 May 2015 10:08 pm
Operator : sarad
Sample : jb94209-3
Misc : op83787,e2p2069,30.5
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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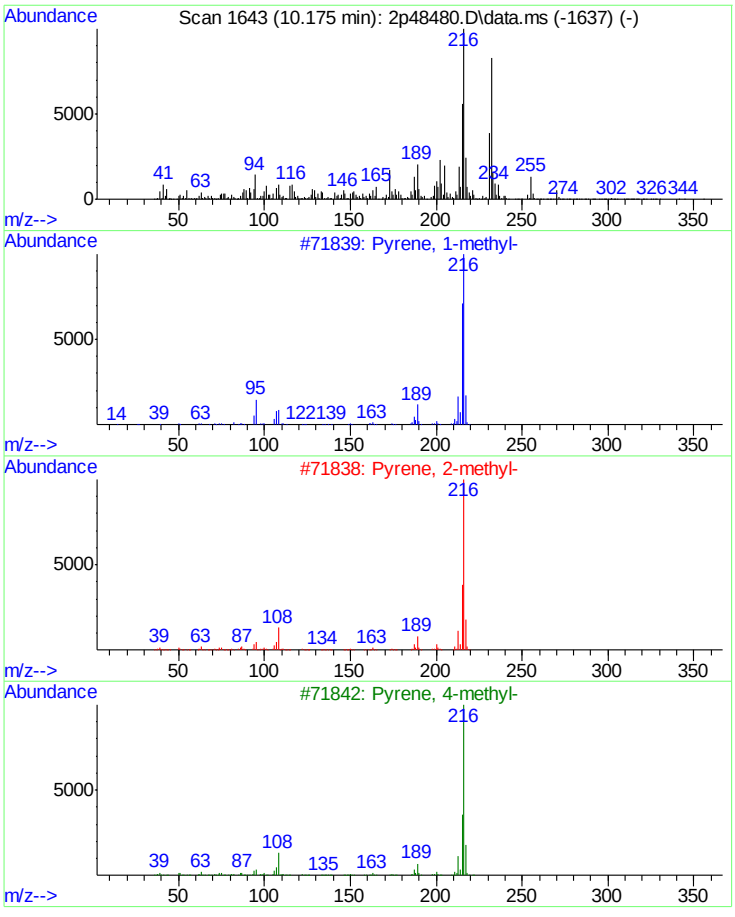
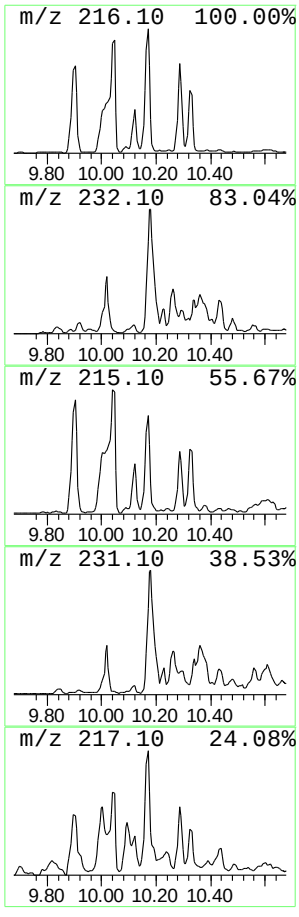
Peak Number 4 Pyrene methyl Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.175	20.22 ppm	5947290	Chrysene-d12	11.255

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	84
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	62
3	Pyrene, 4-methyl-	216	C17H12	003353-12-6	51
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	49
5	Pyrene, 4-methyl-	216	C17H12	003353-12-6	42





Library Search Compound Report

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Data File : 2p48480.D
Acq On    : 11 May 2015  10:08 pm
Operator  : sarad
Sample    : jb94209-3
Misc      : op83787,e2p2069,30.5
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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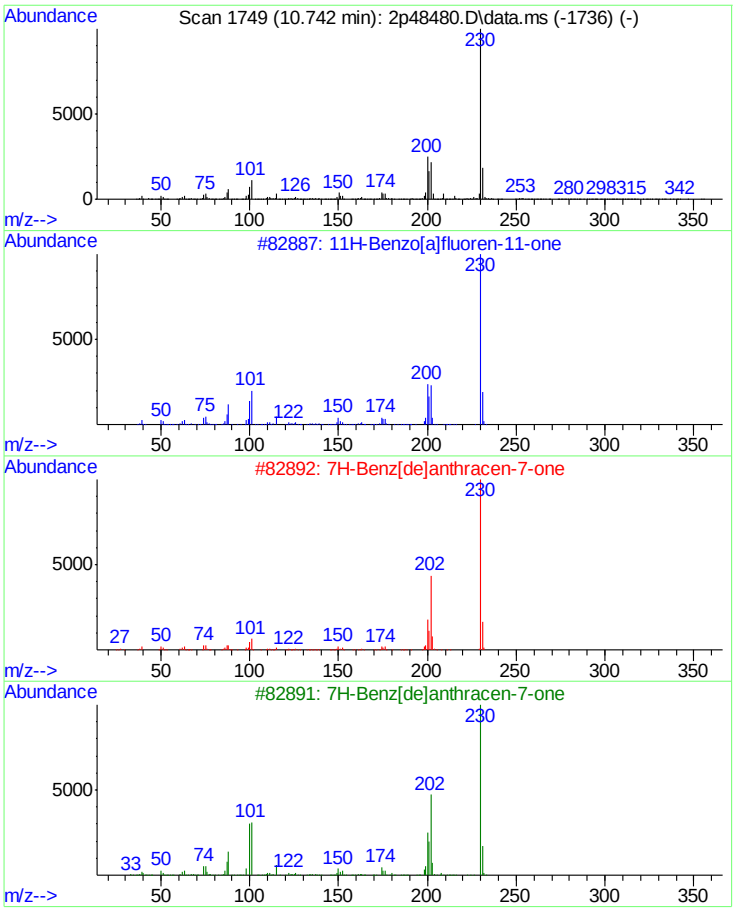
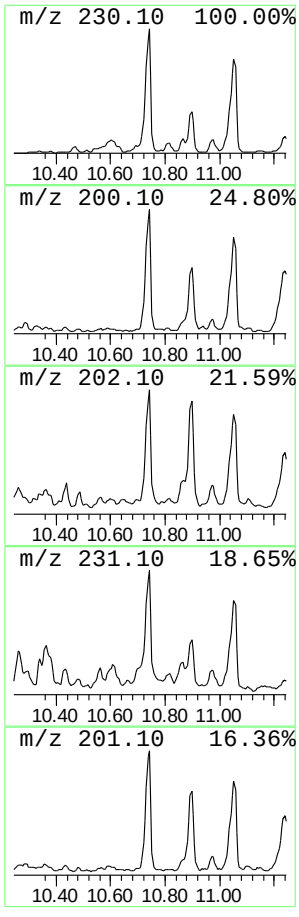
Peak Number 5 11H-Benzo[a]fluoren-11-one Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.742	11.91 ppm	3503420	Chrysene-d12	11.255

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	97
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	87
4	4-Pyrenecarbaldehyde	230	C17H10O	022245-51-8	80
5	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	68





Library Search Compound Report

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Data File : 2p48480.D
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Operator  : sarad
Sample    : jb94209-3
Misc      : op83787,e2p2069,30.5
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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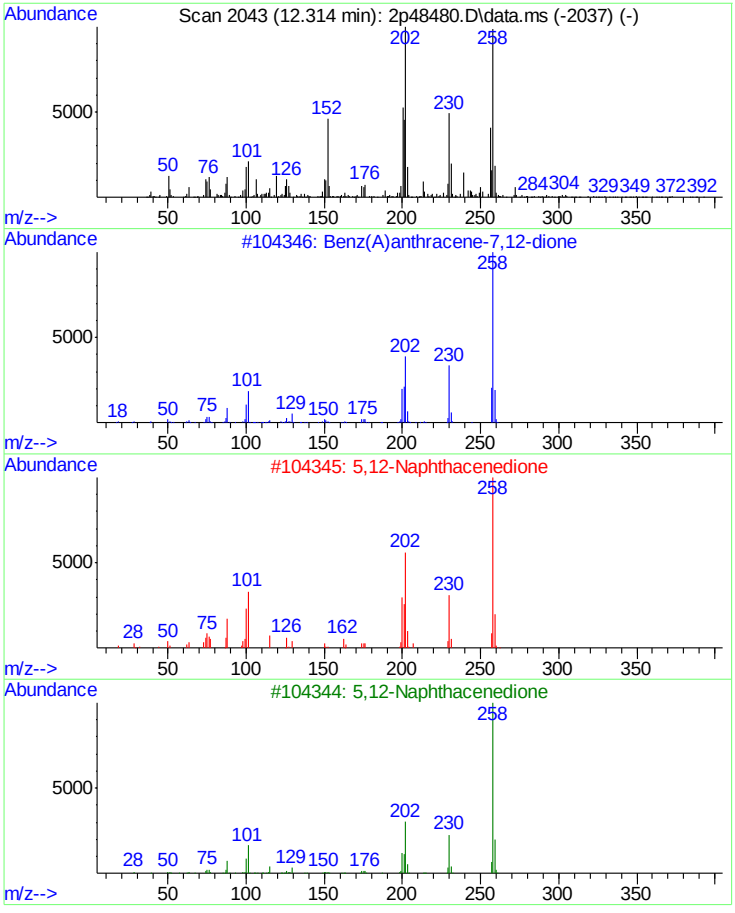
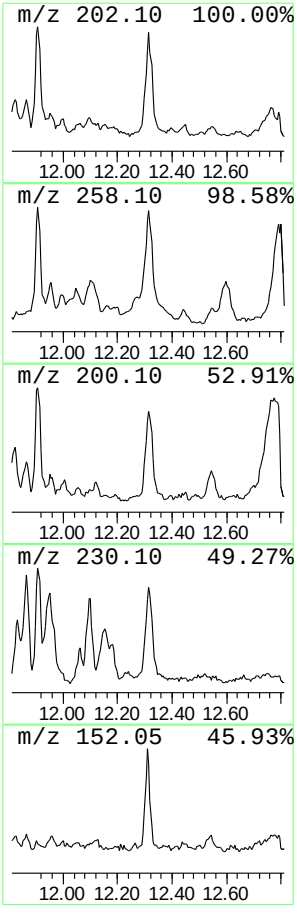
Peak Number 6 unknown Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.314	31.10 ppm	814652	Perylene-d12	13.245

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz(A)anthracene-7,12-dione	258	C18H10O2	002498-66-0	98
2	5,12-Naphthacenedione	258	C18H10O2	001090-13-7	97
3	5,12-Naphthacenedione	258	C18H10O2	001090-13-7	91
4	Piperazine, 1-methyl-4-(1,2,3,4-...	258	C17H26N2	055591-14-5	56
5	1-Methyl-7,11-dithiaspiro[5,5] u...	202	C10H18S2	107678-22-8	53





Library Search Compound Report

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Data File : 2p48480.D
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Operator  : sarad
Sample    : jb94209-3
Misc      : op83787,e2p2069,30.5
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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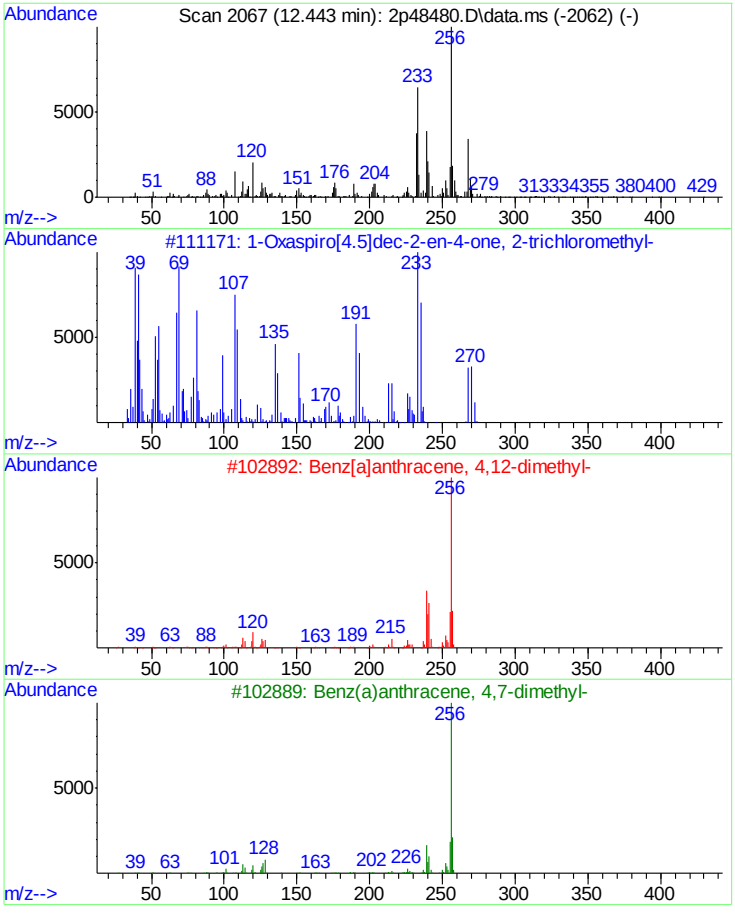
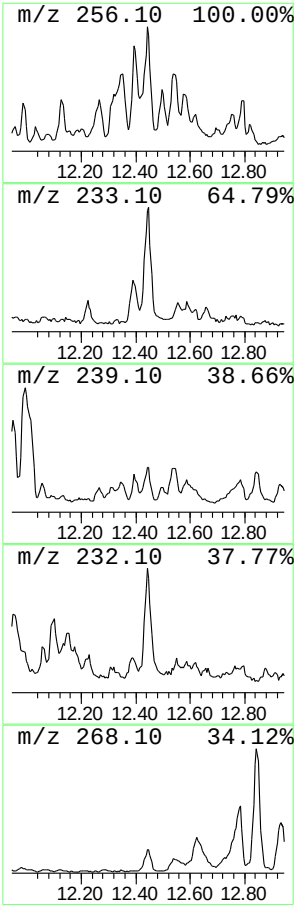
Peak Number 7 unknown Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.443	23.81 ppm	623596	Perylene-d12	13.245

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Oxaspiro[4.5]dec-2-en-4-one, 2...	268	C10H11Cl3O2	188964-29-6	90
2	Benz[a]anthracene, 4,12-dimethyl-	256	C20H16	035187-19-0	70
3	Benz(a)anthracene, 4,7-dimethyl-	256	C20H16	035187-18-9	64
4	Benz[a]anthracene, 7,12-dimethyl-	256	C20H16	000057-97-6	64
5	Benz(a)anthracene, 6,12-dimethyl-	256	C20H16	000568-81-0	64





Library Search Compound Report

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Acq On : 11 May 2015 10:08 pm
Operator : sarad
Sample : jb94209-3
Misc : op83787,e2p2069,30.5
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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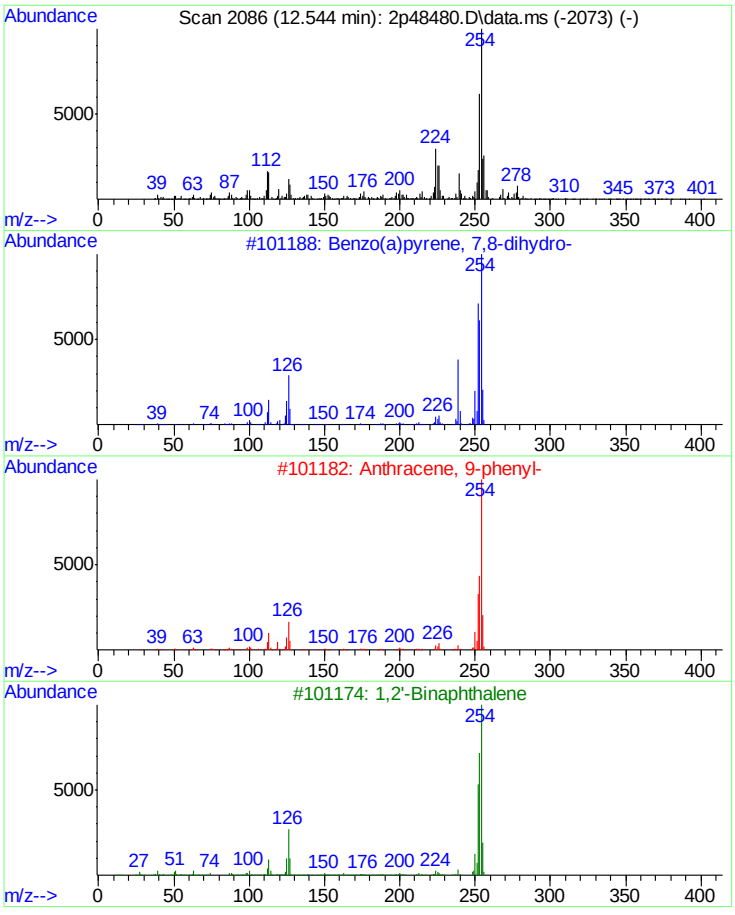
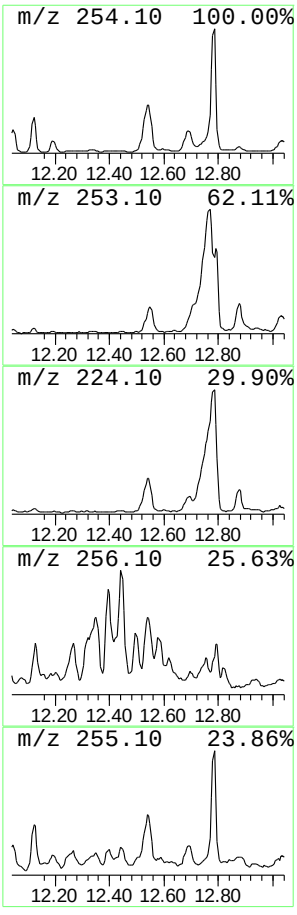
Peak Number 8 unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.544	78.50 ppm	2056120	Perylene-d12	13.245

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo(a)pyrene, 7,8-dihydro-	254	C20H14	017573-23-8	60
2	Anthracene, 9-phenyl-	254	C20H14	000602-55-1	58
3	1,2'-Binaphthalene	254	C20H14	004325-74-0	58
4	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	53
5	Anthracene, 9-phenyl-	254	C20H14	000602-55-1	52





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48480.D
Acq On : 11 May 2015 10:08 pm
Operator : sarad
Sample : jb94209-3
Misc : op83787,e2p2069,30.5
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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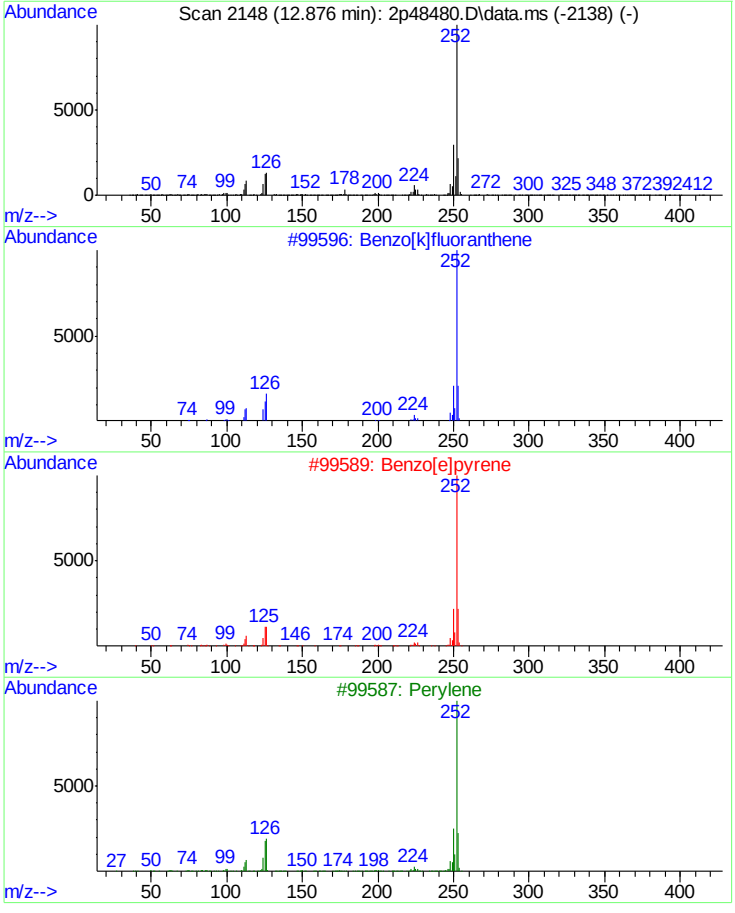
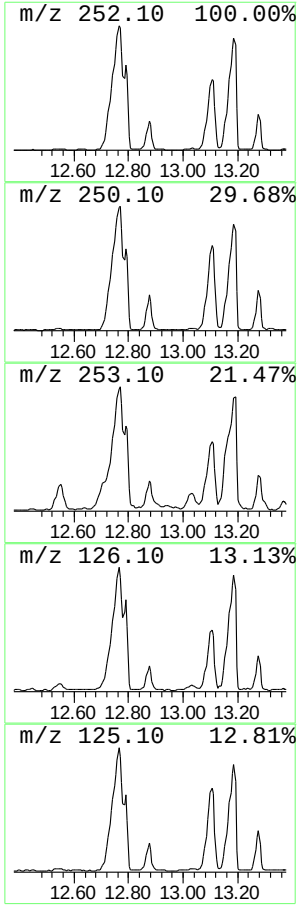
Peak Number 9 unknown PAH substance Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.876	69.53 ppm	1821060	Perylene-d12	13.245

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	99
2	Benzo[e]pyrene	252	C20H12	000192-97-2	98
3	Perylene	252	C20H12	000198-55-0	97
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95
5	Perylene	252	C20H12	000198-55-0	94





Library Search Compound Report

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Data File : 2p48480.D
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Operator  : sarad
Sample    : jb94209-3
Misc      : op83787,e2p2069,30.5
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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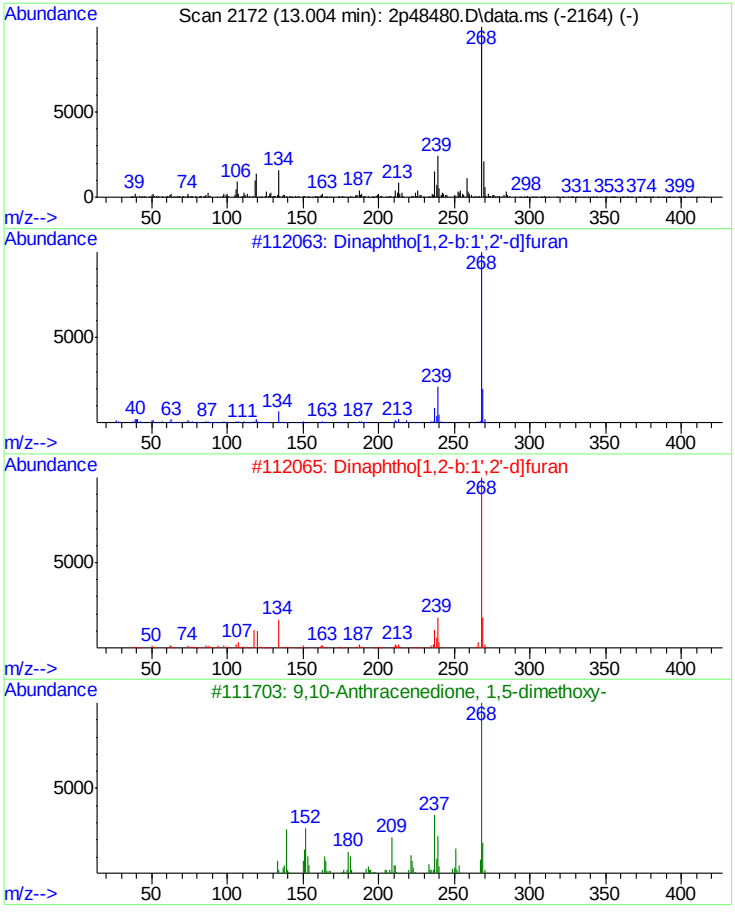
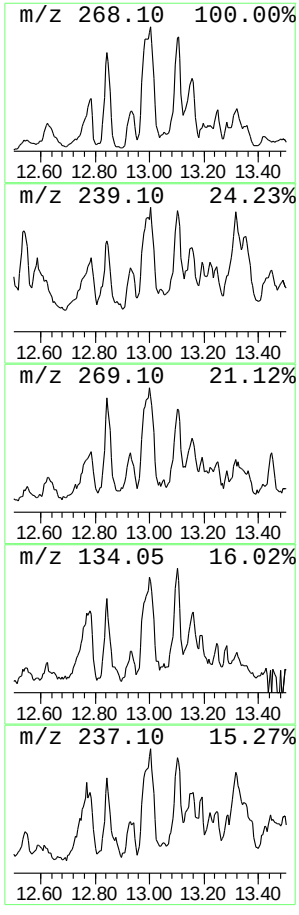
Peak Number 10 unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.004	56.66 ppm	1483930	Perylene-d12	13.245

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	81
2	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	76
3	9,10-Anthracenedione, 1,5-dimeth...	268	C16H12O4	006448-90-4	59
4	4H-1-Benzopyran-4-one, 5-hydroxy...	268	C16H12O4	000520-28-5	53
5	trans-3'-Methyl-4-(methylthio)ch...	268	C17H16OS	131316-14-8	52





Library Search Compound Report

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Data File : 2p48480.D
Acq On    : 11 May 2015  10:08 pm
Operator  : sarad
Sample    : jb94209-3
Misc      : op83787,e2p2069,30.5
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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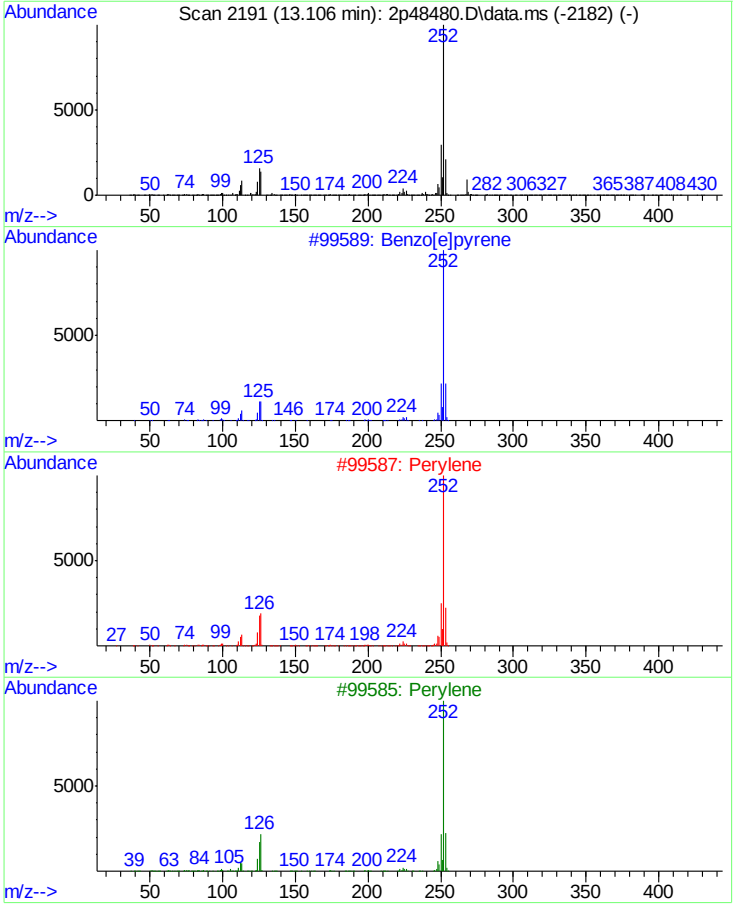
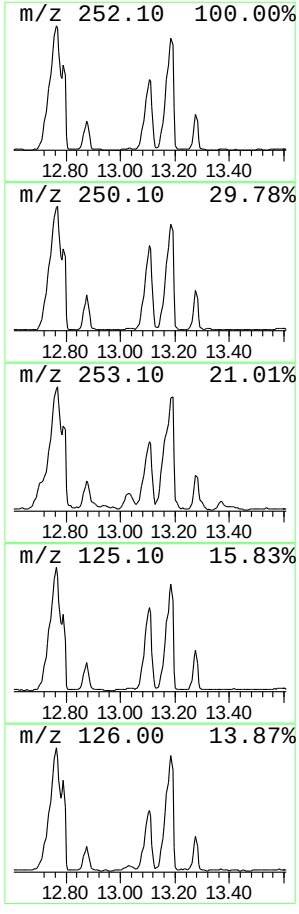
Peak Number 11 unknown PAH substance Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.106	198.94 ppm	5210450	Perylene-d12	13.245

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2	Perylene	252	C20H12	000198-55-0	94
3	Perylene	252	C20H12	000198-55-0	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	91
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90





Library Search Compound Report

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Acq On    : 11 May 2015  10:08 pm
Operator  : sarad
Sample    : jb94209-3
Misc      : op83787,e2p2069,30.5
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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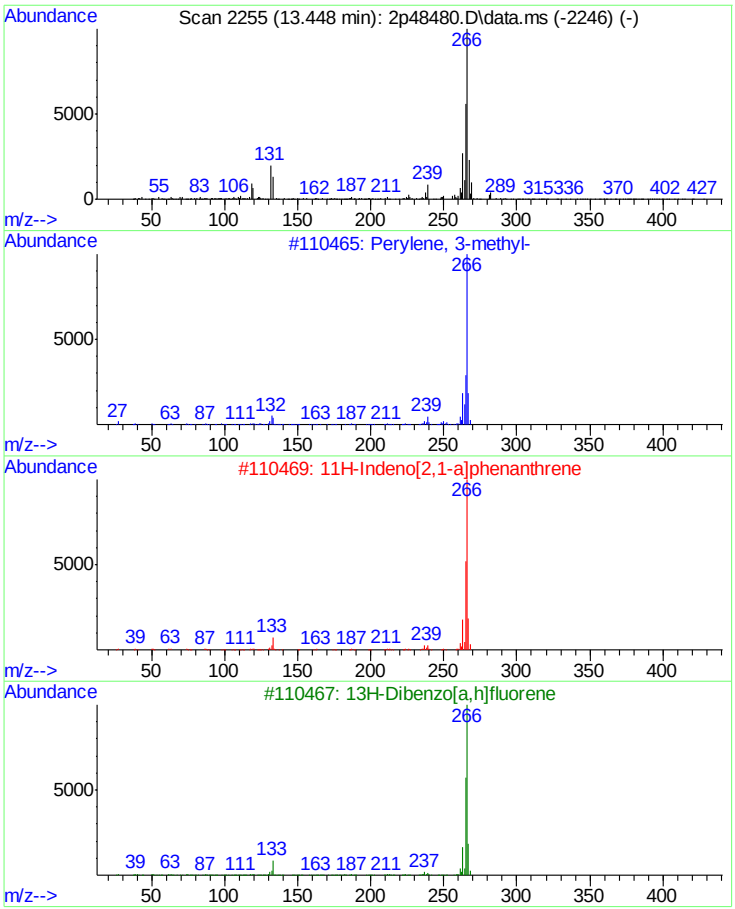
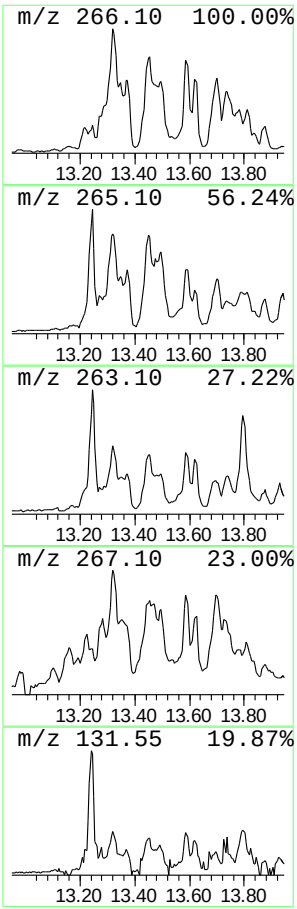
Peak Number 12 unknown Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.448	26.62 ppm	697130	Perylene-d12	13.245

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene, 3-methyl-	266	C21H14	024471-47-4	90
2	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	70
3	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	70
4	Benz[j]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	53
5	1-Benzothieno[3,2-f]quinazoline-...	266	C14H10N4S	065642-92-4	50





Library Search Compound Report

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Sample    : jb94209-3
Misc      : op83787,e2p2069,30.5
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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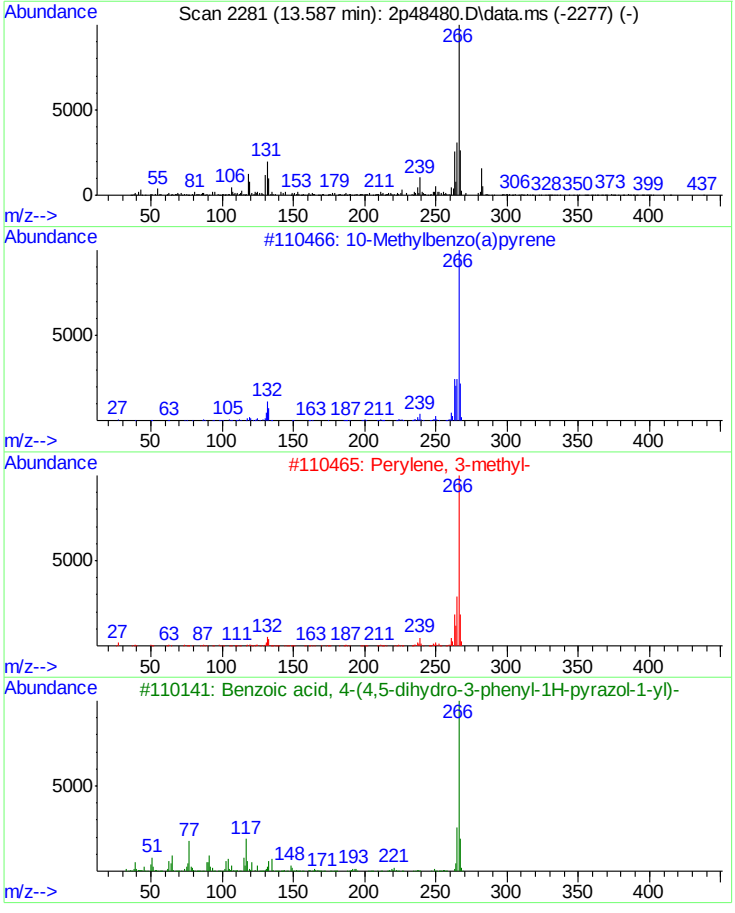
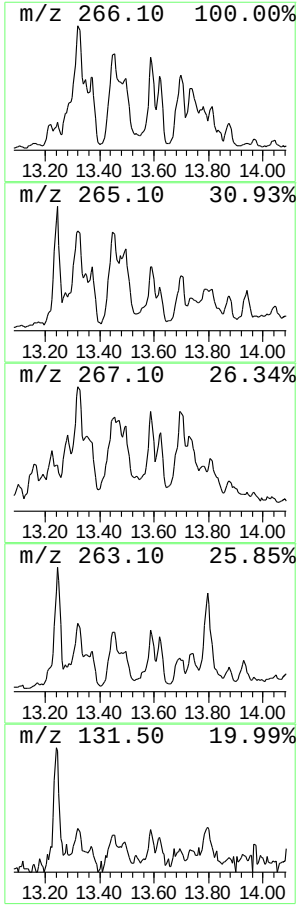
Peak Number 13 unknown Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.587	24.65 ppm	645739	Perylene-d12	13.245

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	10-Methylbenzo(a)pyrene	266	C21H14	063104-32-5	64
2	Perylene, 3-methyl-	266	C21H14	024471-47-4	60
3	Benzoic acid, 4-(4,5-dihydro-3-p...	266	C16H14N2O2	026192-74-5	53
4	Benzo[1,2-b:4,3-b']dithiophene, ...	266	C16H10S2	016587-58-9	53
5	3-Chloro-6-methyl-11H-indolo[3,2...	282	C16H11ClN2O	1000212-76-7	53





Library Search Compound Report

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Sample    : jb94209-3
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ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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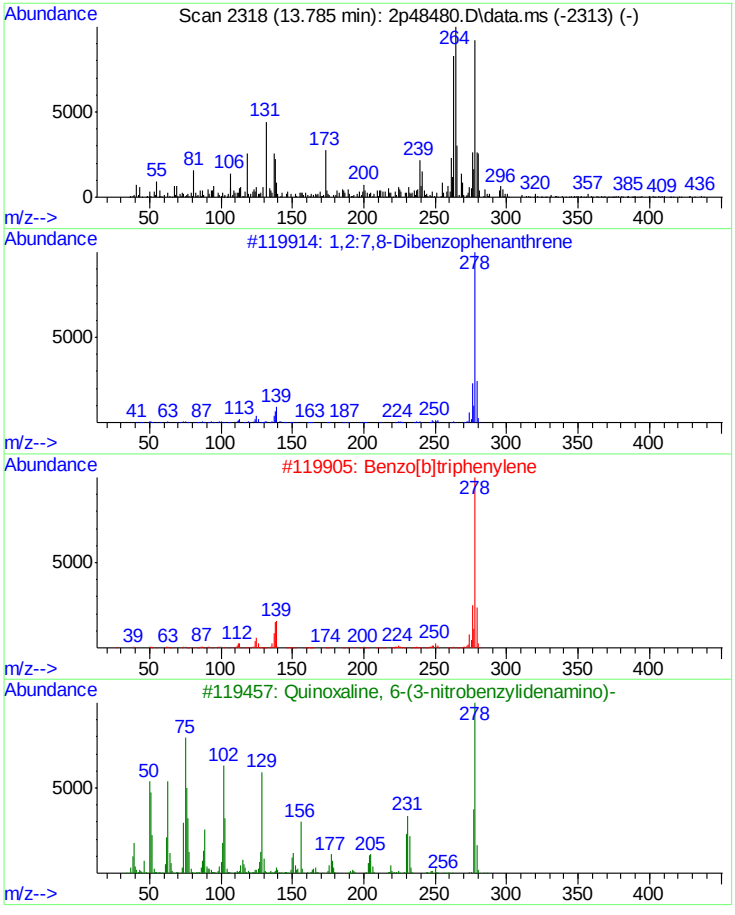
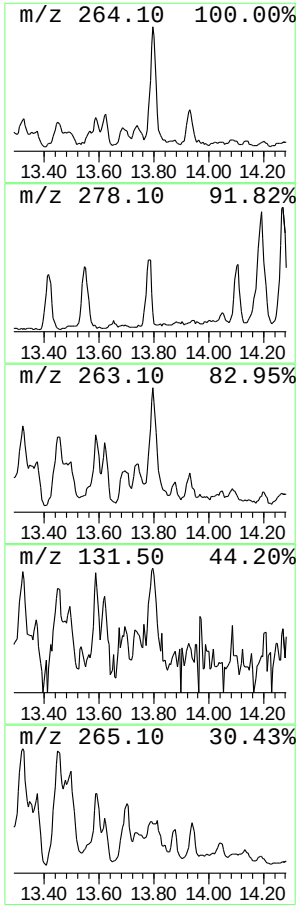
Peak Number 14 unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.785	35.07 ppm	918548	Perylene-d12	13.245

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	25
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	25
3	Quinoxaline, 6-(3-nitrobenzylide...	278	C15H10N4O2	302800-55-1	25
4	Lycopodan-5-one, 12-hydroxy-15-m...	263	C16H25NO2	006900-92-1	25
5	6-[(3-Allylsalicylidene)amino]-1...	278	C16H14N4O	339108-60-0	25





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Operator  : sarad
Sample    : jb94209-3
Misc      : op83787,e2p2069,30.5
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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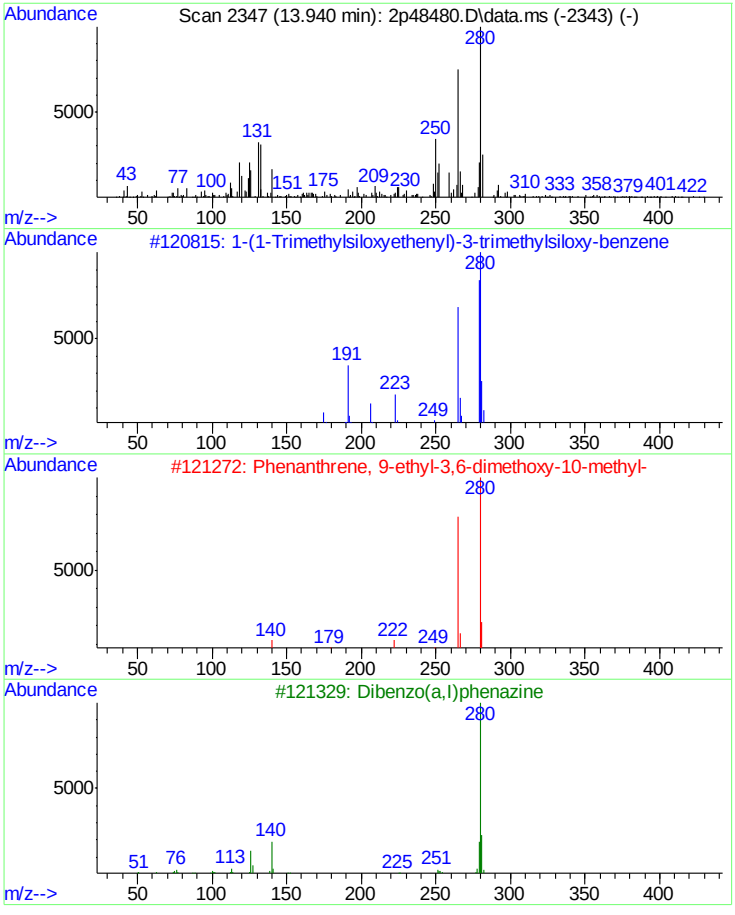
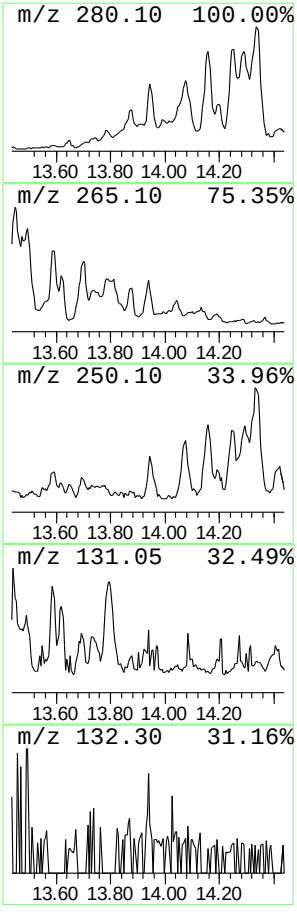
Peak Number 15 unknown Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.940	18.86 ppm	493901	Perylene-d12	13.245

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-(1-Trimethylsiloxyethenyl)-3-t...	280	C14H24O2Si2	126210-52-4	58
2	Phenanthrene, 9-ethyl-3,6-dimeth...	280	C19H20O2	005025-37-6	58
3	Dibenzo(a,I)phenazine	280	C20H12N2	000226-98-2	55
4	Dibenzo(a,c)fluoren-13-one	280	C21H12O	063041-47-4	41
5	Benzoxazole, 2-[2-(4-piperidyl)p...	280	C16H16N4O	1000294-14-8	38





Library Search Compound Report

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Misc      : op83787,e2p2069,30.5
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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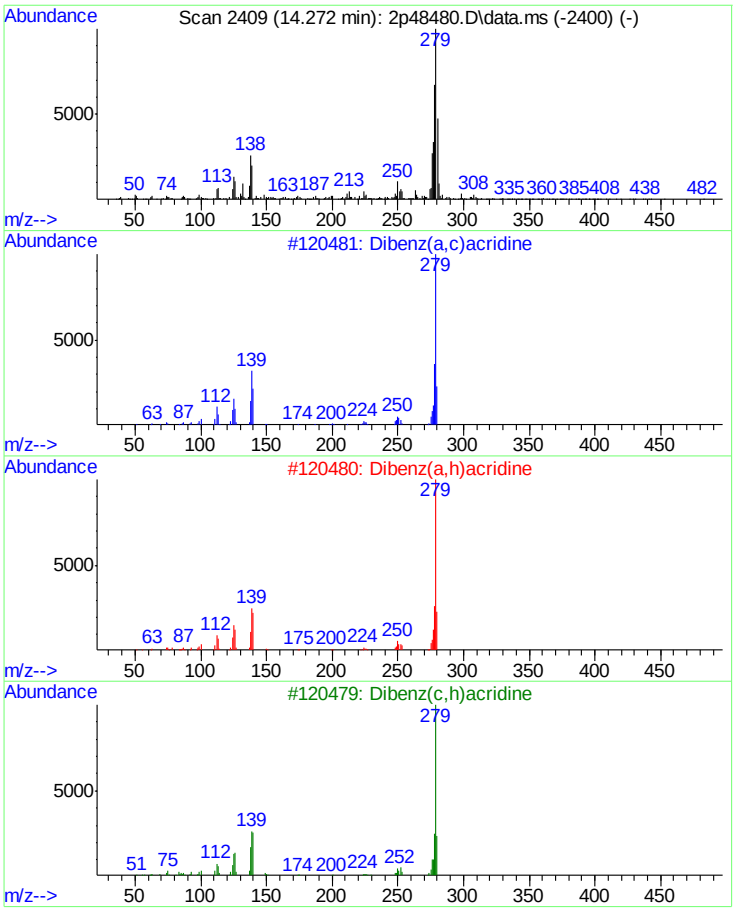
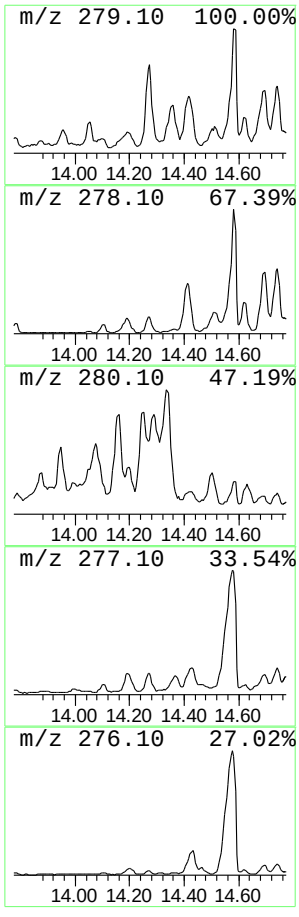
Peak Number 16 unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.272	41.97 ppm	1099210	Perylene-d12	13.245

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz(a,c)acridine	279	C21H13N	000215-62-3	64
2	Dibenz(a,h)acridine	279	C21H13N	000226-36-8	60
3	Dibenz(c,h)acridine	279	C21H13N	000224-53-3	55
4	4'-Acetamido-4-azidochalcone	306	C17H14N4O2	1000140-92-1	53
5	Dibenz[a,j]acridine	279	C21H13N	000224-42-0	50





Library Search Compound Report

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Acq On : 11 May 2015 10:08 pm
Operator : sarad
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Misc : op83787,e2p2069,30.5
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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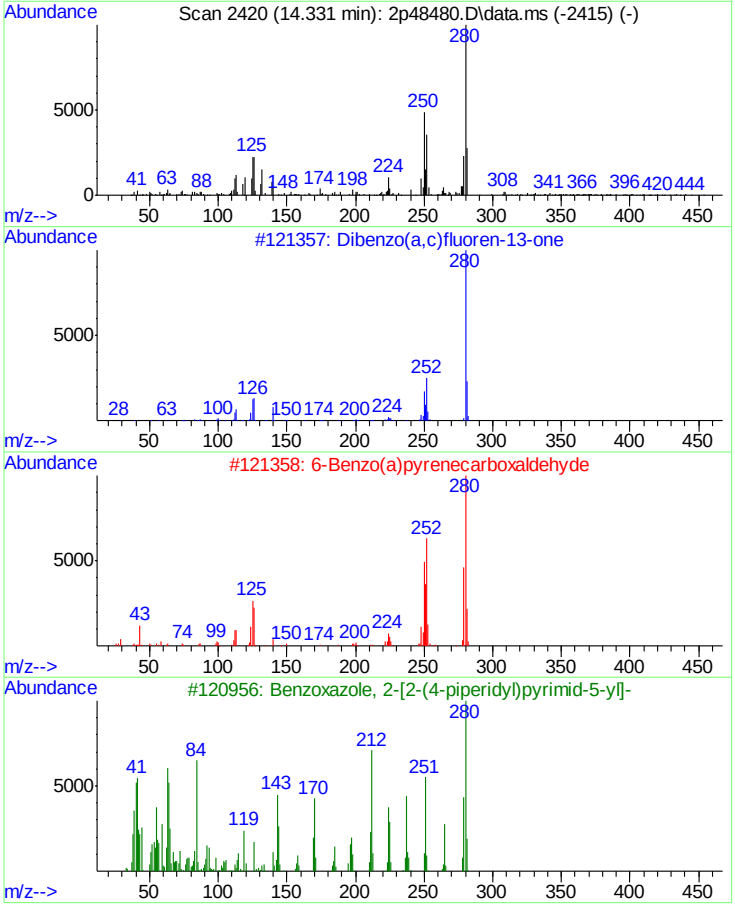
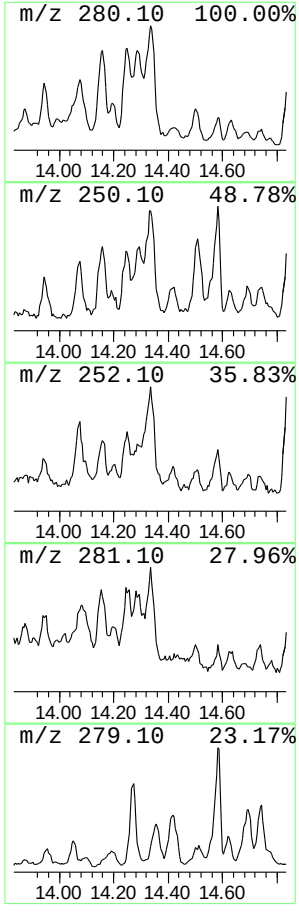
Peak Number 17 unknown Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.331	31.43 ppm	823184	Perylene-d12	13.245

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo(a,c)fluoren-13-one	280	C21H12O	063041-47-4	90
2	6-Benzo(a)pyrenecarboxaldehyde	280	C21H12O	013312-42-0	58
3	Benzoxazole, 2-[2-(4-piperidyl)p...	280	C16H16N4O	1000294-14-8	46
4	Dibenzo(a,I)phenazine	280	C20H12N2	000226-98-2	46
5	11H-Cyclopenta[a]phenanthren-17-...	280	C19H20O2	033760-56-4	43





Library Search Compound Report

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Data File : 2p48480.D
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Operator  : sarad
Sample    : jb94209-3
Misc      : op83787,e2p2069,30.5
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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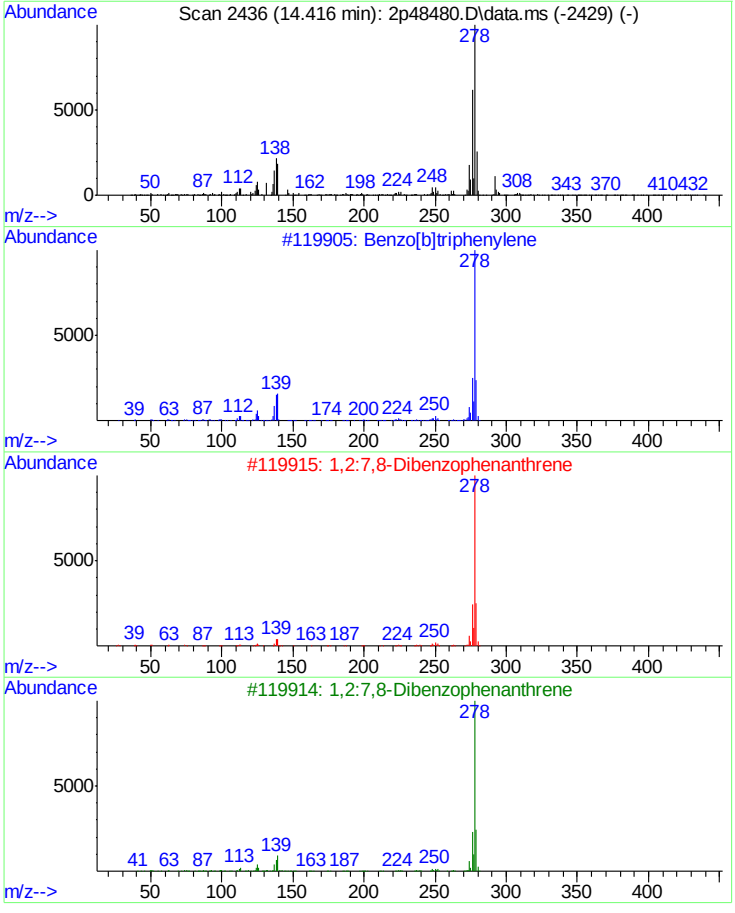
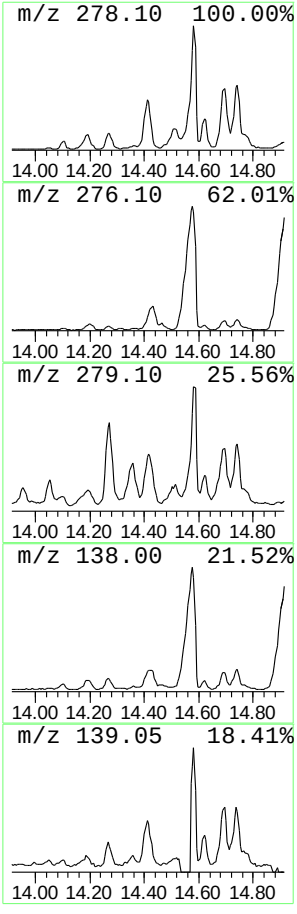
Peak Number 18 Benzo[b]triphenylene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.416	52.18 ppm	1366600	Perylene-d12	13.245

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	96
2	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	83
3	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	83
4	Benzo[b]triphenylene	278	C22H14	000215-58-7	83
5	Pentaphene	278	C22H14	000222-93-5	78





Library Search Compound Report

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ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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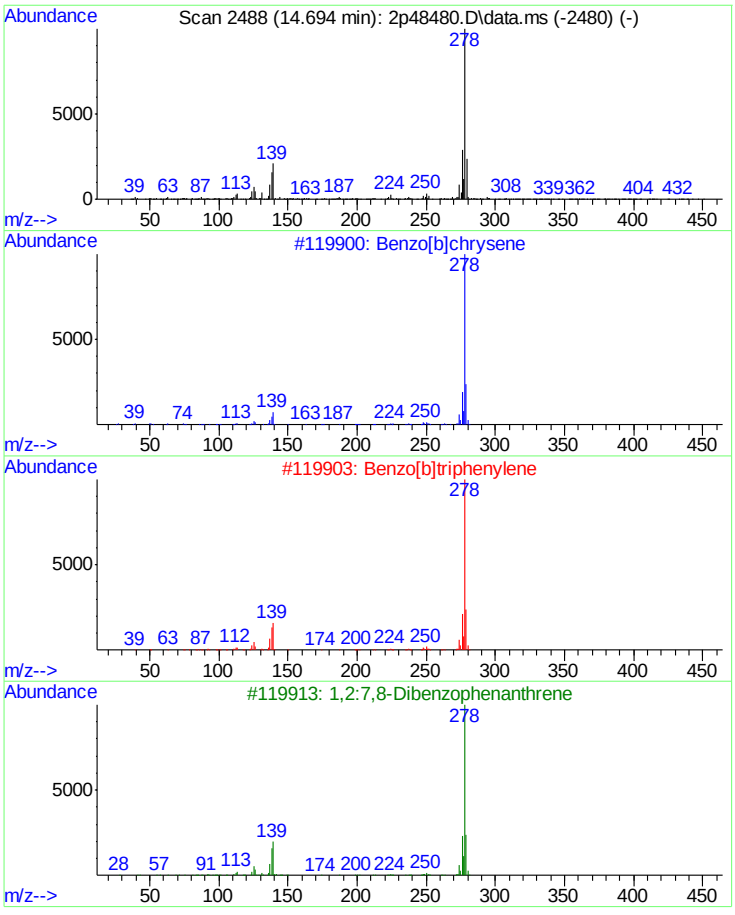
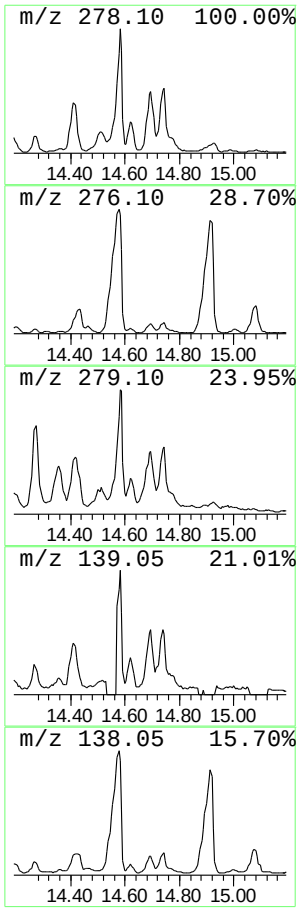
Peak Number 19 unknown PAH substance Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.694	33.48 ppm	876763	Perylene-d12	13.245

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]chrysene	278	C22H14	000214-17-5	94
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	94
3	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	94
4	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	93
5	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	93





Library Search Compound Report

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Misc      : op83787,e2p2069,30.5
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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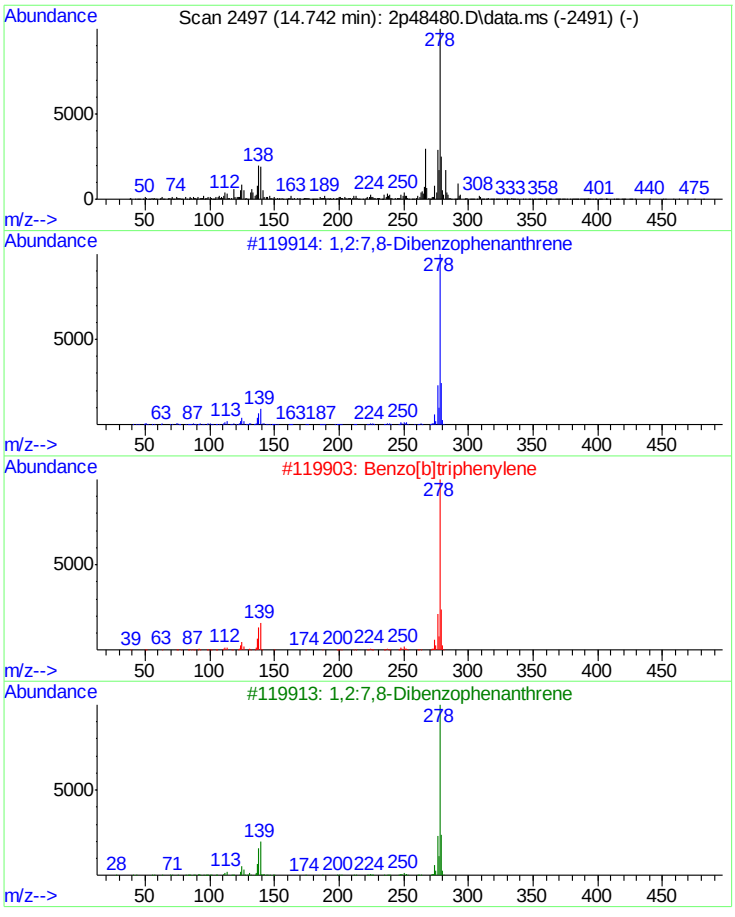
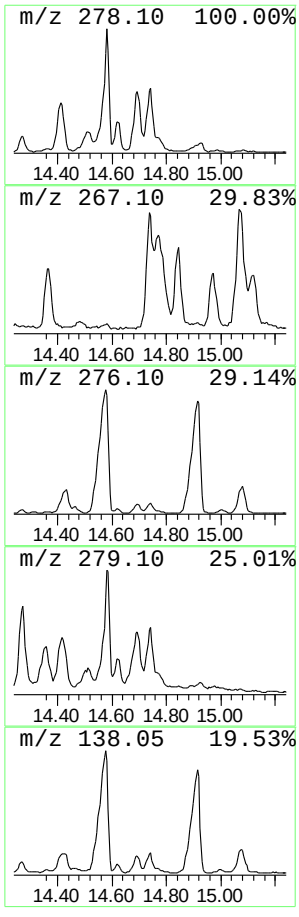
Peak Number 20 Dibenzophenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.742	68.81 ppm	1802220	Perylene-d12	13.245

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	97
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	96
3	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	95
4	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	91
5	Pentaphene	278	C22H14	000222-93-5	90





Library Search Compound Report

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Data File : 2p48480.D
Acq On : 11 May 2015 10:08 pm
Operator : sarad
Sample : jb94209-3
Misc : op83787,e2p2069,30.5
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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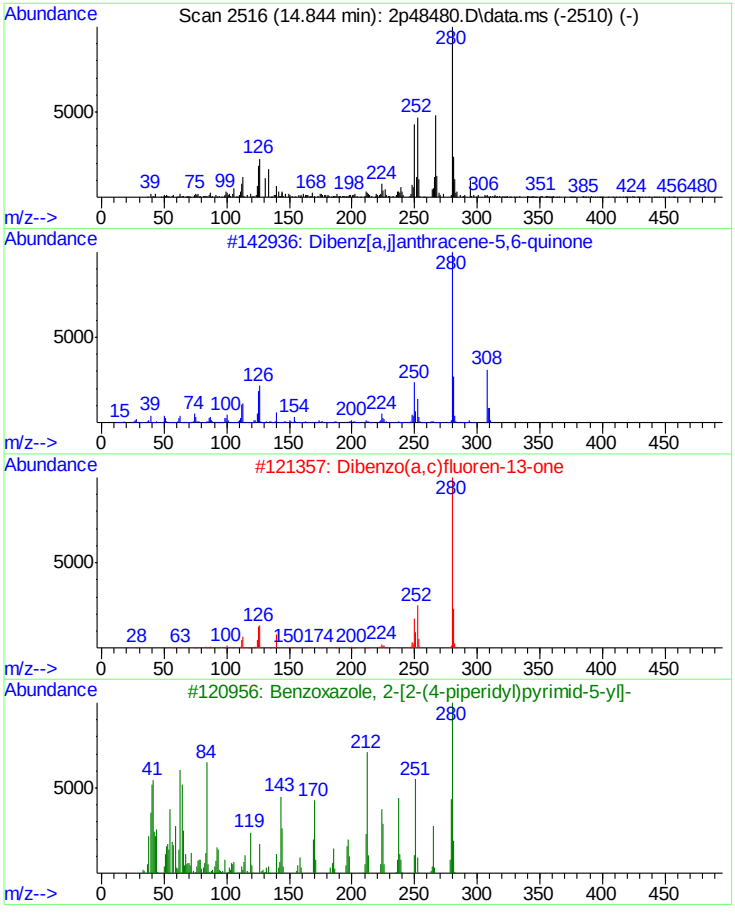
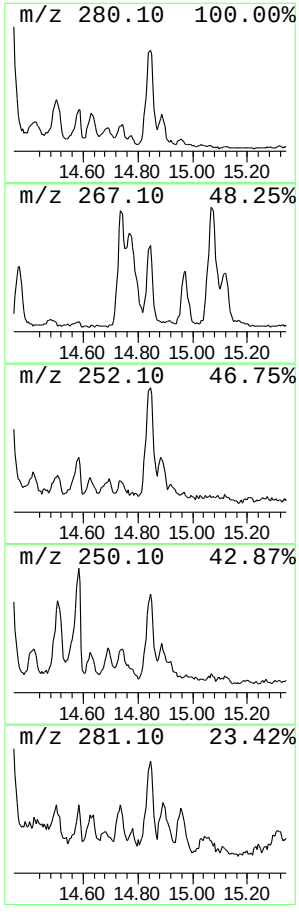
Peak Number 21 unknown Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.844	17.93 ppm	469504	Perylene-d12	13.245

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz[a,j]anthracene-5,6-quinone	308	C22H12O2	052755-66-5	89
2	Dibenzo(a,c)fluoren-13-one	280	C21H12O	063041-47-4	83
3	Benzoxazole, 2-[2-(4-piperidyl)p...	280	C16H16N4O	1000294-14-8	70
4	9H-Thioxanthen-9-one, 2-(trifluo...	280	C14H7F3OS	001693-28-3	47
5	7H-Indeno[2,1-a]anthracen-7-one	280	C21H12O	027582-45-2	41





Library Search Compound Report

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Data File : 2p48480.D
Acq On : 11 May 2015 10:08 pm
Operator : sarad
Sample : jb94209-3
Misc : op83787,e2p2069,30.5
ALS Vial : 14 Sample Multiplier: 1

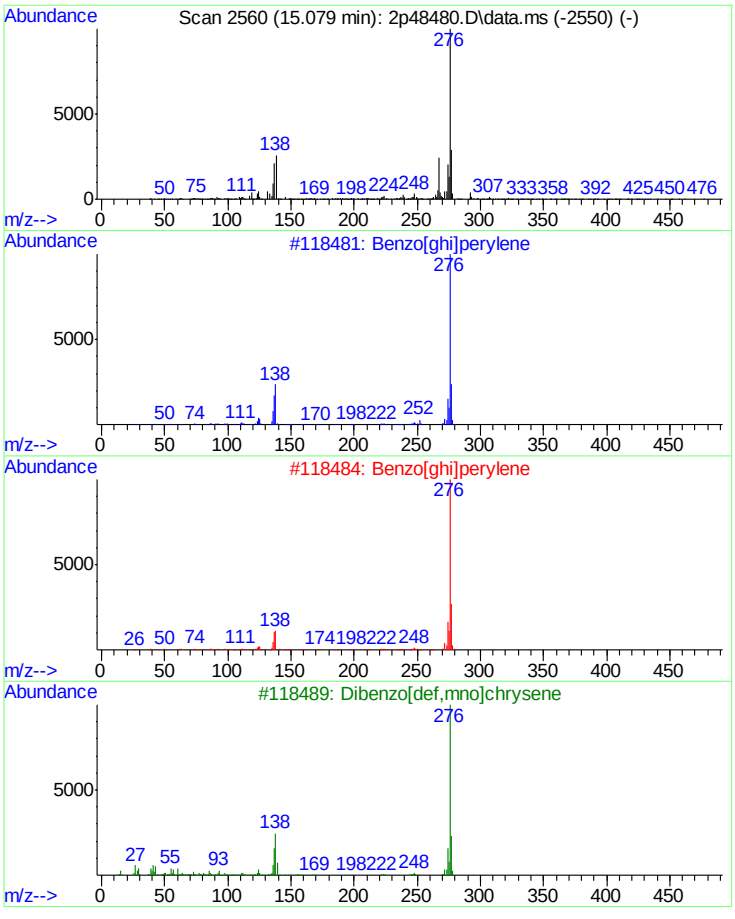
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

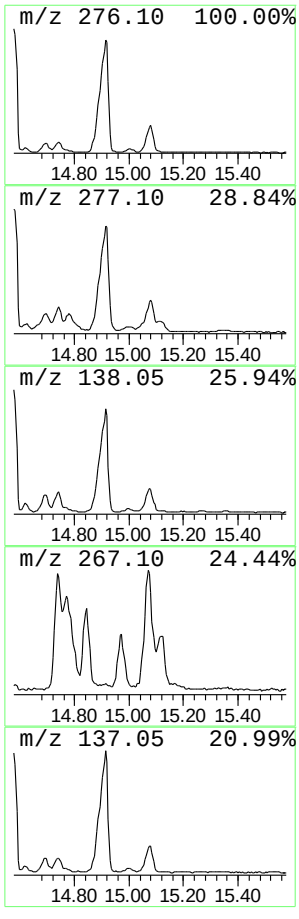
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 22 unknown PAH substance Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.079	41.18 ppm	1078690	Perylene-d12	13.245

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]perylene	276	C22H12	000191-24-2	96
2	Benzo[ghi]perylene	276	C22H12	000191-24-2	96
3	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	94
4	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	92
5	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	89





Library Search Compound Report

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Data File : 2p48480.D
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Operator  : sarad
Sample    : jb94209-3
Misc      : op83787,e2p2069,30.5
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

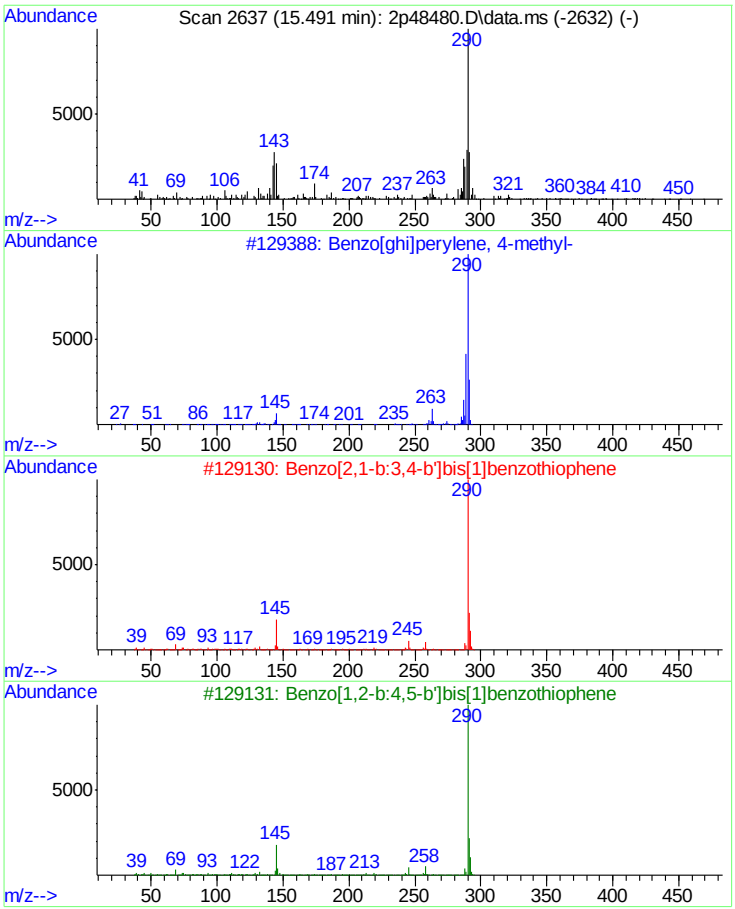
TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

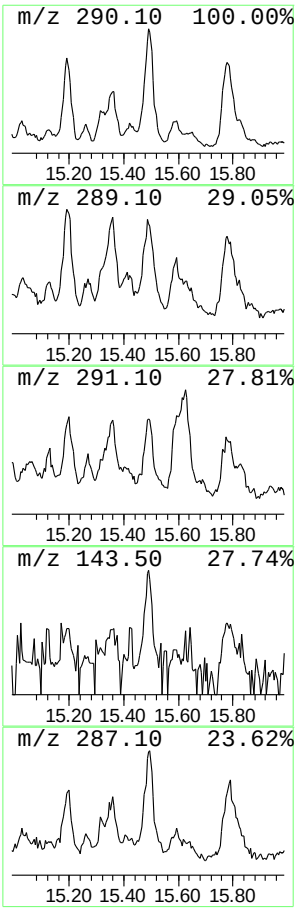
****

Peak Number 23 unknown Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.491	19.46 ppm	509682	Perylene-d12	13.245

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]perylene, 4-methyl-	290	C23H14	019224-38-5	58
2	Benzo[2,1-b:3,4-b']bis[1]benzoth...	290	C18H10S2	000222-24-2	46
3	Benzo[1,2-b:4,5-b']bis[1]benzoth...	290	C18H10S2	000241-34-9	43
4	Benzo[1,2-b:3,4-b']bis[1]benzoth...	290	C18H10S2	000198-89-0	38
5	1,1':4',1''-Terphenyl, 3,3''-dim...	290	C20H18O2	1000327-41-7	38





Library Search Compound Report

```
Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48480.D
Acq On    : 11 May 2015  10:08 pm
Operator  : sarad
Sample    : jb94209-3
Misc      : op83787,e2p2069,30.5
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

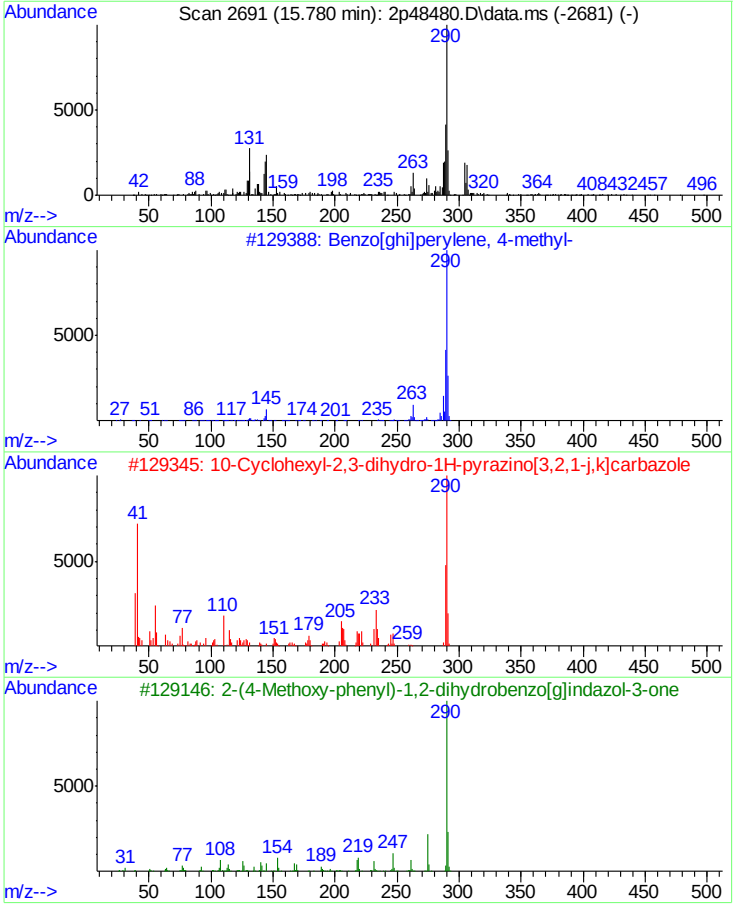
TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

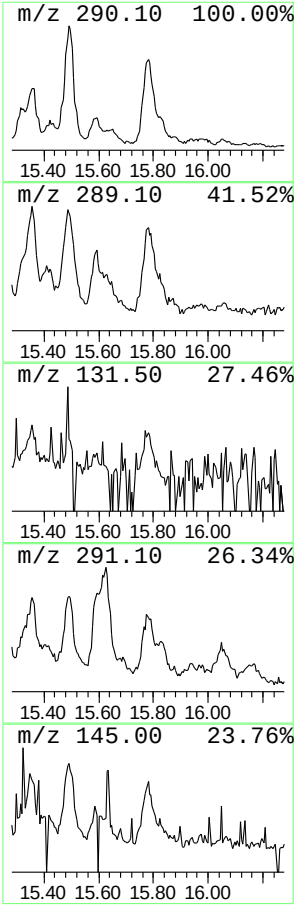
****

Peak Number 24 unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.780	41.63 ppm	1090320	Perylene-d12	13.245

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]perylene, 4-methyl-	290	C23H14	019224-38-5	60
2	10-Cyclohexyl-2,3-dihydro-1H-pyr...	290	C20H22N2	157056-89-8	37
3	2-(4-Methoxy-phenyl)-1,2-dihydro...	290	C18H14N2O2	1000193-55-3	30
4	1,1-Dimethyl-1-pyrenyloxy-1-sila...	290	C19H18OSi	1000353-12-6	27
5	Benzoxazole, 2,2'-(1,2-ethenediy...	290	C18H14N2O2	001041-00-5	27





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48480.D
Acq On    : 11 May 2015  10:08 pm
Operator  : sarad
Sample    : jb94209-3
Misc      : op83787,e2p2069,30.5
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```
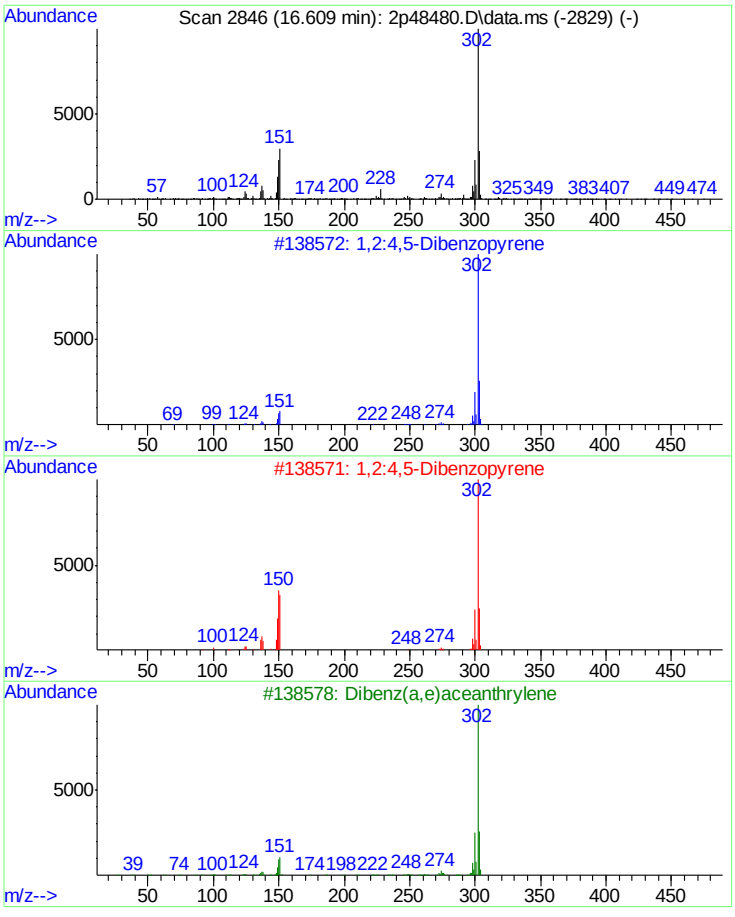
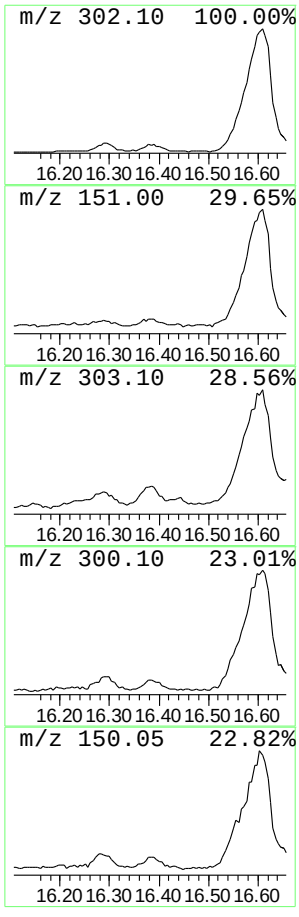

****

Peak Number 25 1,2:4,5-Dibenzopyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.609	64.87 ppm	1698940	Perylene-d12	13.245

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	98
2	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	96
3	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	96
4	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	95
5	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	93





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48480.D
Acq On : 11 May 2015 10:08 pm
Operator : sarad
Sample : jb94209-3
Misc : op83787,e2p2069,30.5
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
unknown	3.810	28.5	ppm	608425	1	4.318	854289	40.0
unknown	9.030	11.8	ppm	3429850	7	8.051	11608600	40.0
Phenanthrene, 1...	9.998	27.0	ppm	7933660	8	11.255	11767900	40.0
Pyrene methyl	10.175	20.2	ppm	5947290	8	11.255	11767900	40.0
11H-Benzo[a]flu...	10.742	11.9	ppm	3503420	8	11.255	11767900	40.0
unknown	12.314	31.1	ppm	814652	10	13.245	1047660	40.0
unknown	12.443	23.8	ppm	623596	10	13.245	1047660	40.0
unknown	12.544	78.5	ppm	2056120	10	13.245	1047660	40.0
unknown PAH sub...	12.876	69.5	ppm	1821060	10	13.245	1047660	40.0
unknown	13.004	56.7	ppm	1483930	10	13.245	1047660	40.0
unknown PAH sub...	13.106	198.9	ppm	5210450	10	13.245	1047660	40.0
unknown	13.448	26.6	ppm	697130	10	13.245	1047660	40.0
unknown	13.587	24.6	ppm	645739	10	13.245	1047660	40.0
unknown	13.785	35.1	ppm	918548	10	13.245	1047660	40.0
unknown	13.940	18.9	ppm	493901	10	13.245	1047660	40.0
unknown	14.272	42.0	ppm	1099210	10	13.245	1047660	40.0
unknown	14.331	31.4	ppm	823184	10	13.245	1047660	40.0
Benzo[b]triphen...	14.416	52.2	ppm	1366600	10	13.245	1047660	40.0
unknown PAH sub...	14.694	33.5	ppm	876763	10	13.245	1047660	40.0
Dibenzophenanth...	14.742	68.8	ppm	1802220	10	13.245	1047660	40.0
unknown	14.844	17.9	ppm	469504	10	13.245	1047660	40.0
unknown PAH sub...	15.079	41.2	ppm	1078690	10	13.245	1047660	40.0
unknown	15.491	19.5	ppm	509682	10	13.245	1047660	40.0
unknown	15.780	41.6	ppm	1090320	10	13.245	1047660	40.0
1,2:4,5-Dibenzo...	16.609	64.9	ppm	1698940	10	13.245	1047660	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Kristin Weiler
05/14/15 10:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48481.D
Acq On : 11 May 2015 10:29 pm
Operator : sarad
Sample : jb94209-3
Misc : op83787,e2p2069,30.5,,,1,10
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 14 10:27:51 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

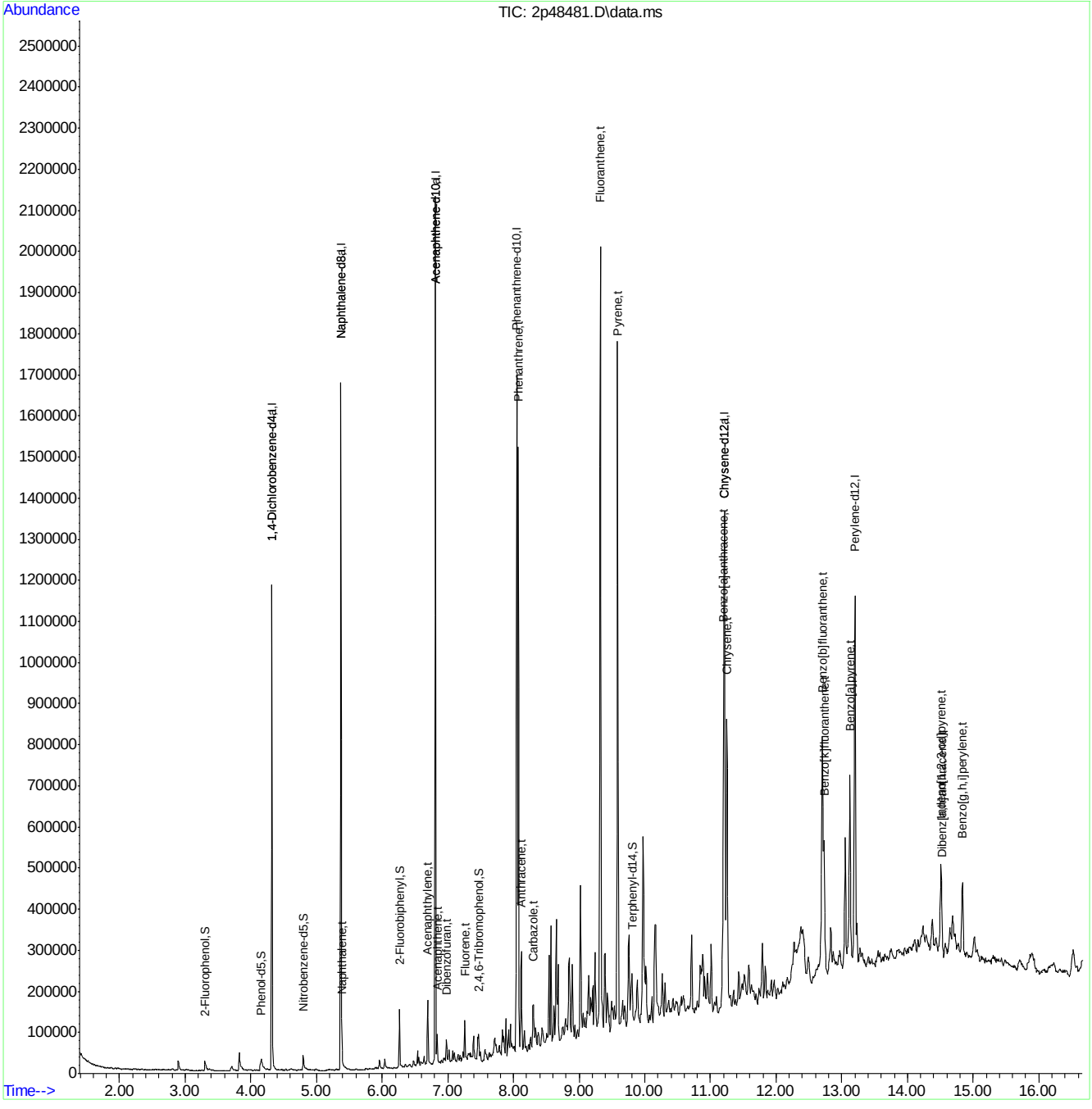
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.318	152	143910	40.00	ppm	-0.09
24) Naphthalene-d8	5.372	136	488891	40.00	ppm	-0.09
47) Acenaphthene-d10	6.810	164	309294	40.00	ppm	-0.09
69) Phenanthrene-d10	8.051	188	484821	40.00	ppm	-0.10
83) Chrysene-d12	11.218	240	419379	40.00	ppm	-0.12
92) Perylene-d12	13.202	264	375267	40.00	ppm	-0.12
102) 1,4-Dichlorobenzene-d4a	4.318	152	143910	40.00	ppm	-0.09
104) Naphthalene-d8a	5.372	136	488891	40.00	ppm	#-0.09
106) Acenaphthene-d10a	6.810	164	309294	40.00	ppm	-0.09
109) Chrysene-d12a	11.218	240	419379	40.00	ppm	-0.12
System Monitoring Compounds						
5) 2-Fluorophenol	3.302	112	9418	2.23	ppm	-0.10
Spiked Amount 50.000	Range 11 - 58		Recovery	=	4.46%#	
8) Phenol-d5	4.163	99	12538	2.36	ppm	-0.06
Spiked Amount 50.000	Range 10 - 59		Recovery	=	4.72%#	
25) Nitrobenzene-d5	4.799	82	14194	3.20	ppm	-0.07
Spiked Amount 50.000	Range 19 - 61		Recovery	=	6.40%#	
51) 2-Fluorobiphenyl	6.265	172	32280	3.05	ppm	-0.08
Spiked Amount 50.000	Range 21 - 58		Recovery	=	6.10%#	
73) 2,4,6-Tribromophenol	7.474	330	3326	2.95	ppm	-0.08
Spiked Amount 50.000	Range 12 - 68		Recovery	=	5.90%#	
85) Terphenyl-d14	9.806	244	28813	3.69	ppm	-0.11
Spiked Amount 50.000	Range 16 - 65		Recovery	=	7.38%#	
Target Compounds						Qvalue
38) Naphthalene	5.388	128	12479	0.97	ppm	96
56) Acenaphthylene	6.693	152	54330	3.73	ppm	99
59) Acenaphthene	6.837	153	13129	1.45	ppm	98
62) Dibenzofuran	6.982	168	14758	1.21	ppm	89
66) Fluorene	7.260	166	19113	1.92	ppm	94
77) Phenanthrene	8.073	178	416984	31.27	ppm	98
78) Anthracene	8.121	178	82357	6.11	ppm	96
79) Carbazole	8.297	167	35225	2.70	ppm	98
81) Fluoranthene	9.324	202	738288	46.23	ppm	96
84) Pyrene	9.592	202	681364	53.22	ppm	100
88) Benzo[a]anthracene	11.202	228	309599	25.56	ppm	97
90) Chrysene	11.250	228	286856	26.52	ppm	98
94) Benzo[b]fluoranthene	12.705	252	298776m	26.09	ppm	
95) Benzo[k]fluoranthene	12.731	252	105455m	9.73	ppm	
96) Benzo[a]pyrene	13.122	252	208021	21.01	ppm	93
97) Indeno[1,2,3-cd]pyrene	14.507	276	103302	9.10	ppm	89
99) Dibenz[a,h]anthracene	14.523	278	33189	3.60	ppm	81
101) Benzo[g,h,i]perylene	14.839	276	91372	9.75	ppm	91

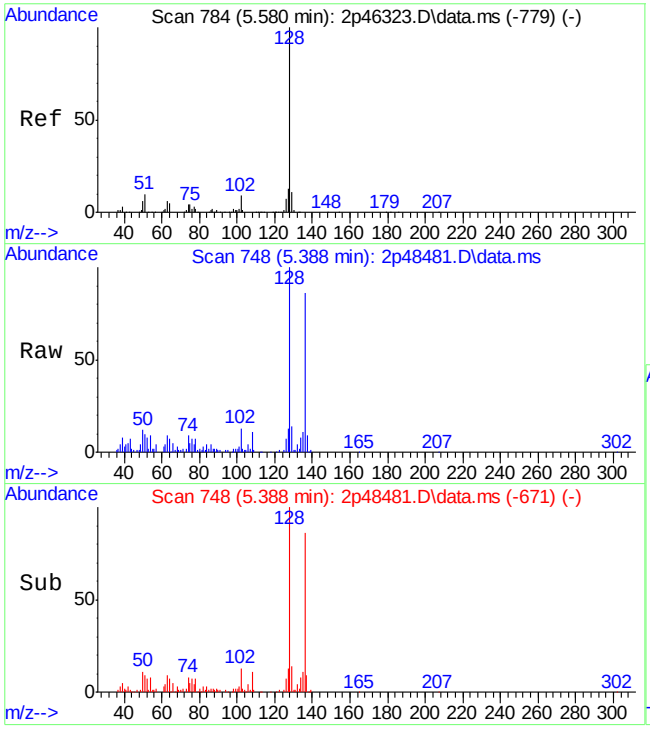
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48481.D
Acq On : 11 May 2015 10:29 pm
Operator : sarad
Sample : jb94209-3
Misc : op83787,e2p2069,30.5,,,1,10
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 14 10:27:51 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

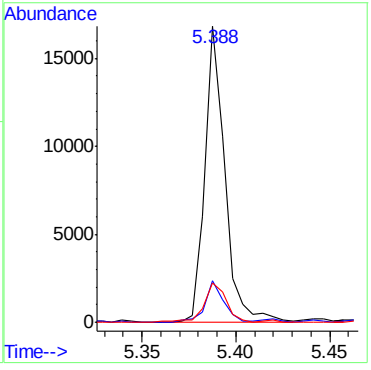


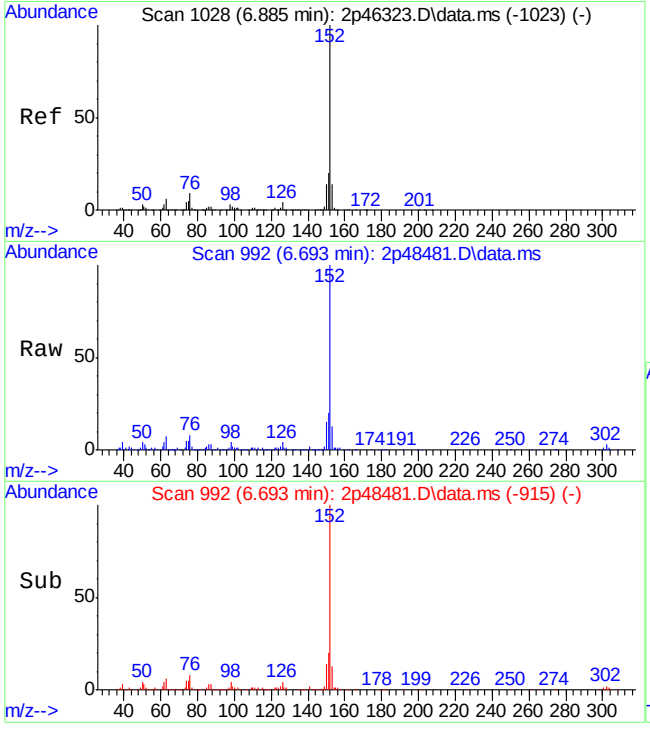


#38
Naphthalene
Concen: 0.97 ppm
RT: 5.388 min Scan# 748
Delta R.T. -0.085 min
Lab File: 2p48481.D
Acq: 11 May 2015 10:29 pm

Tgt Ion:128 Resp: 12479

Ion	Ratio	Lower	Upper
128	100		
129	14.0	0.0	41.0
127	13.3	0.0	43.4

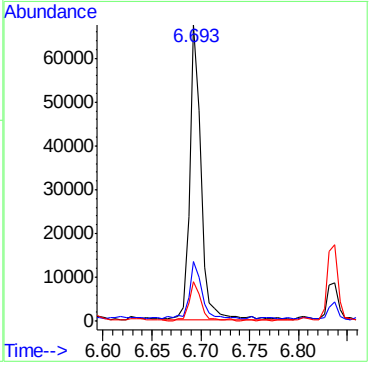


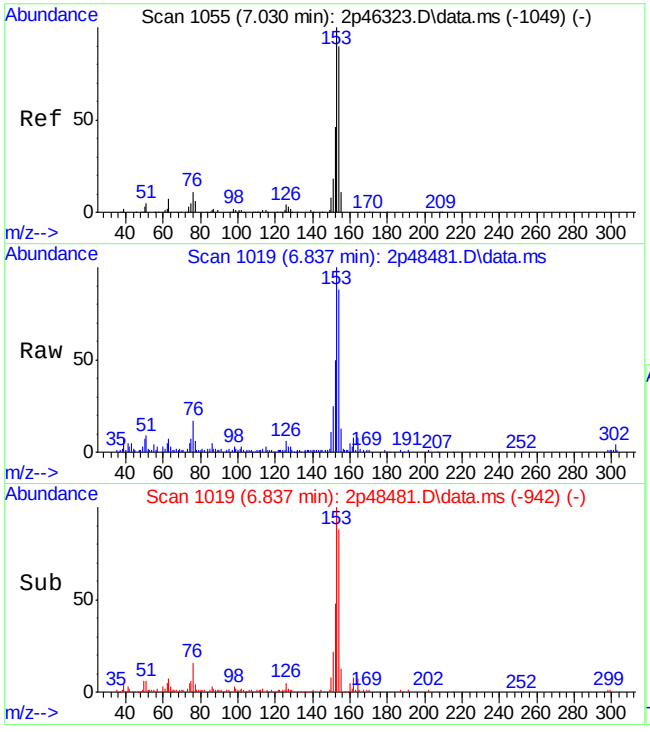


#56
Acenaphthylene
Concen: 3.73 ppm
RT: 6.693 min Scan# 992
Delta R.T. -0.085 min
Lab File: 2p48481.D
Acq: 11 May 2015 10:29 pm

Tgt Ion:152 Resp: 54330

Ion	Ratio	Lower	Upper
152	100		
151	19.4	0.0	49.7
153	13.0	0.0	42.8

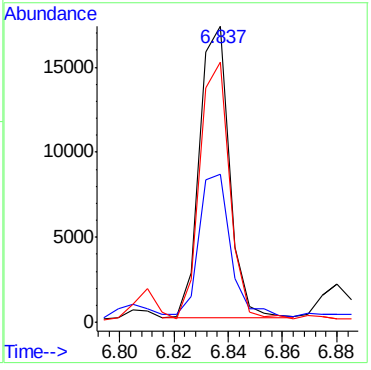


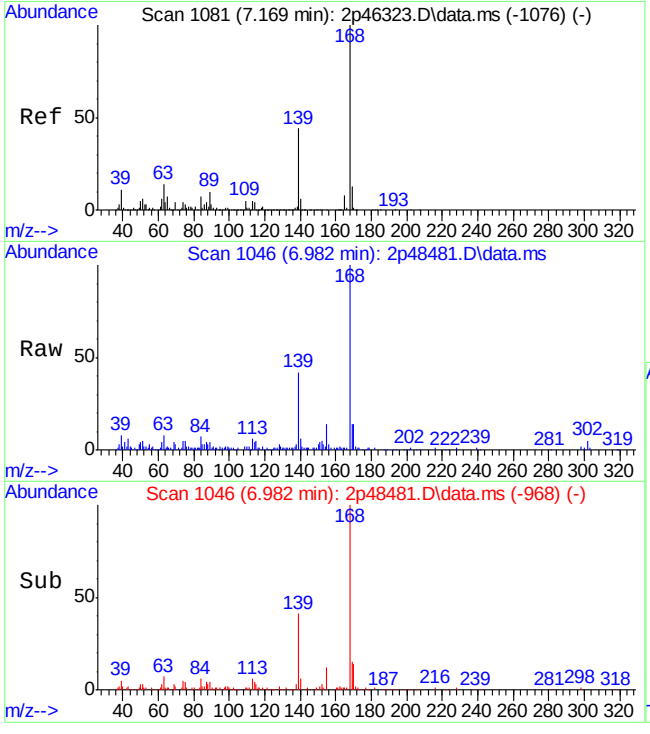


#59
Acenaphthene
Concen: 1.45 ppm
RT: 6.837 min Scan# 1019
Delta R.T. -0.086 min
Lab File: 2p48481.D
Acq: 11 May 2015 10:29 pm

Tgt Ion:153 Resp: 13129

Ion	Ratio	Lower	Upper
153	100		
152	48.3	16.9	76.9
154	87.0	58.3	118.3

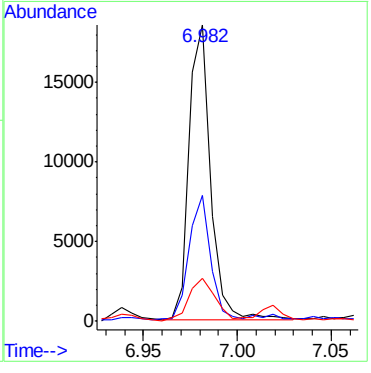


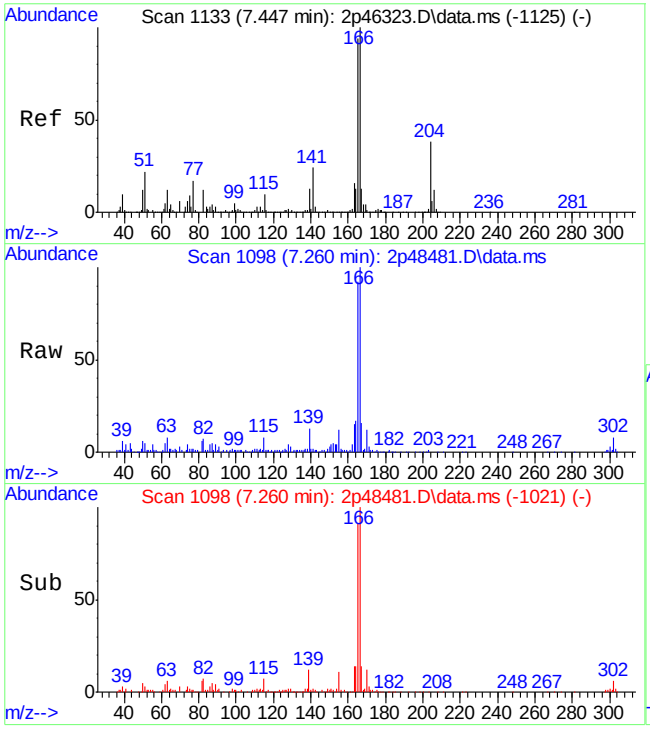


#62
Dibenzofuran
Concen: 1.21 ppm
RT: 6.982 min Scan# 1046
Delta R.T. -0.080 min
Lab File: 2p48481.D
Acq: 11 May 2015 10:29 pm

Tgt Ion:168 Resp: 14758

Ion	Ratio	Lower	Upper
168	100		
139	41.8	3.6	63.6
169	14.1	0.0	43.3

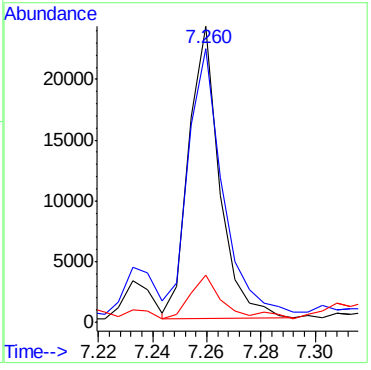


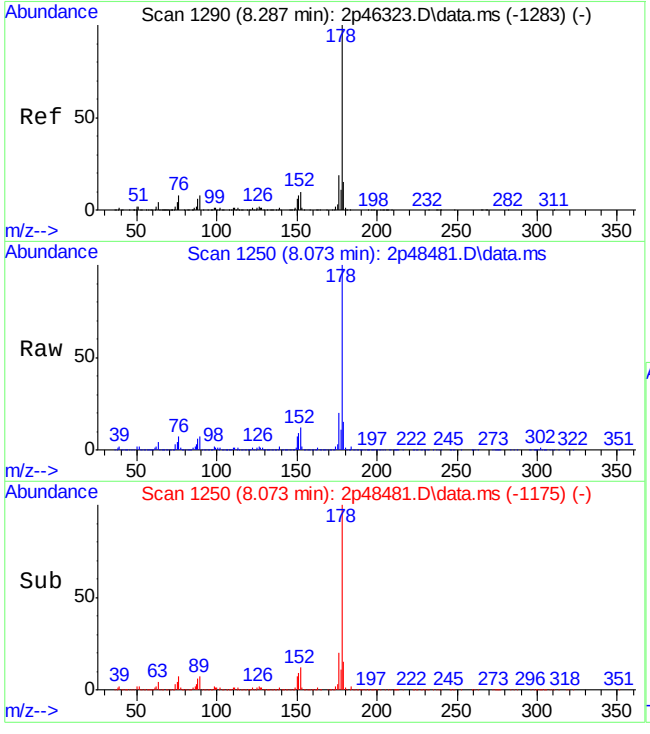


#66
Fluorene
Concen: 1.92 ppm
RT: 7.260 min Scan# 1098
Delta R.T. -0.086 min
Lab File: 2p48481.D
Acq: 11 May 2015 10:29 pm

Tgt Ion:166 Resp: 19113

Ion	Ratio	Lower	Upper
166	100		
165	89.1	65.0	125.0
167	15.1	0.0	43.9

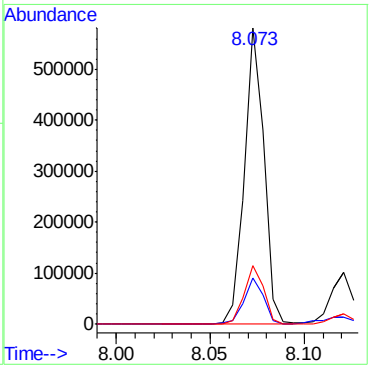


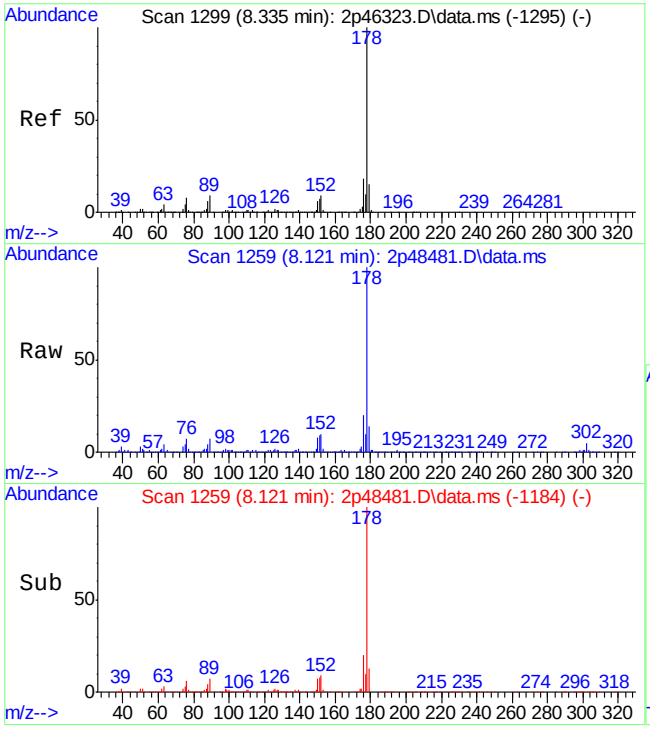


#77
Phenanthrene
Concen: 31.27 ppm
RT: 8.073 min Scan# 1250
Delta R.T. -0.096 min
Lab File: 2p48481.D
Acq: 11 May 2015 10:29 pm

Tgt Ion:178 Resp: 416984

Ion	Ratio	Lower	Upper
178	100		
179	15.4	0.0	45.4
176	19.9	0.0	48.5

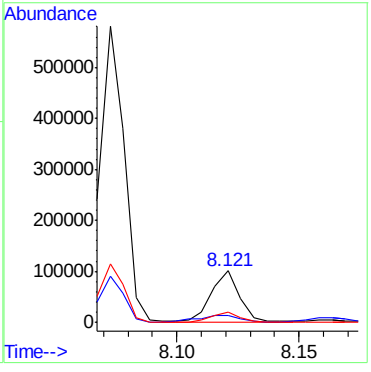


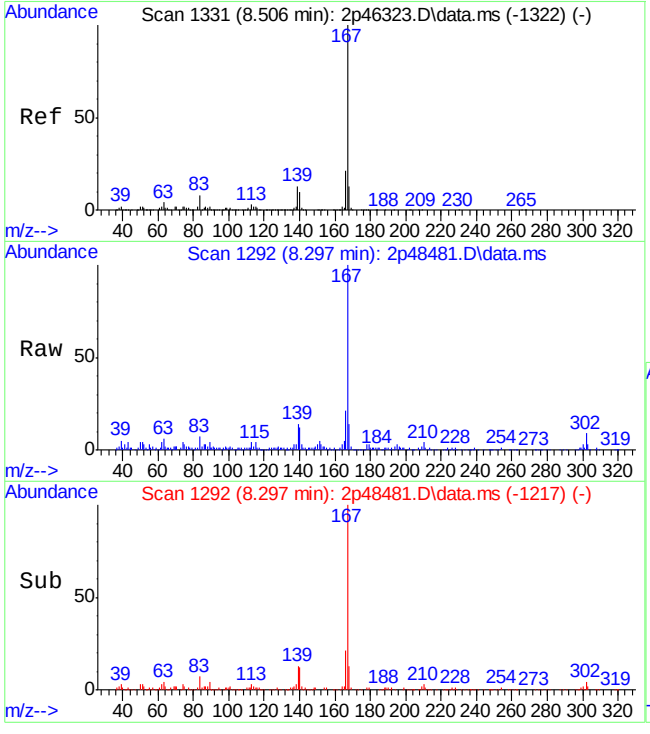


#78
Anthracene
Concen: 6.11 ppm
RT: 8.121 min Scan# 1259
Delta R.T. -0.096 min
Lab File: 2p48481.D
Acq: 11 May 2015 10:29 pm

Tgt Ion:178 Resp: 82357

Ion	Ratio	Lower	Upper
178	100		
179	13.4	0.0	45.2
176	19.8	0.0	48.1

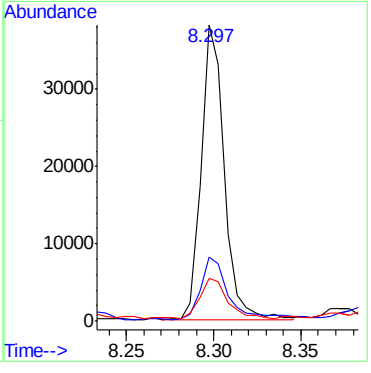


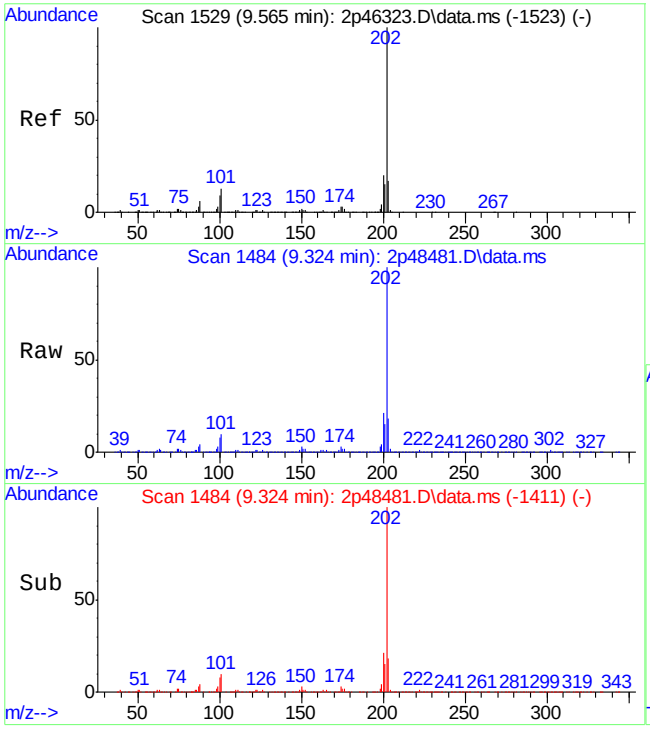


#79
Carbazole
Concen: 2.70 ppm
RT: 8.297 min Scan# 1292
Delta R.T. -0.096 min
Lab File: 2p48481.D
Acq: 11 May 2015 10:29 pm

Tgt Ion:167 Resp: 35225

Ion	Ratio	Lower	Upper
167	100		
166	20.4	0.0	50.6
139	13.2	0.0	41.7

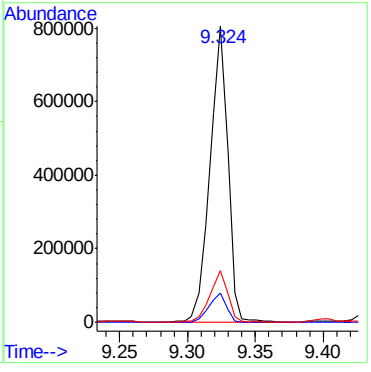


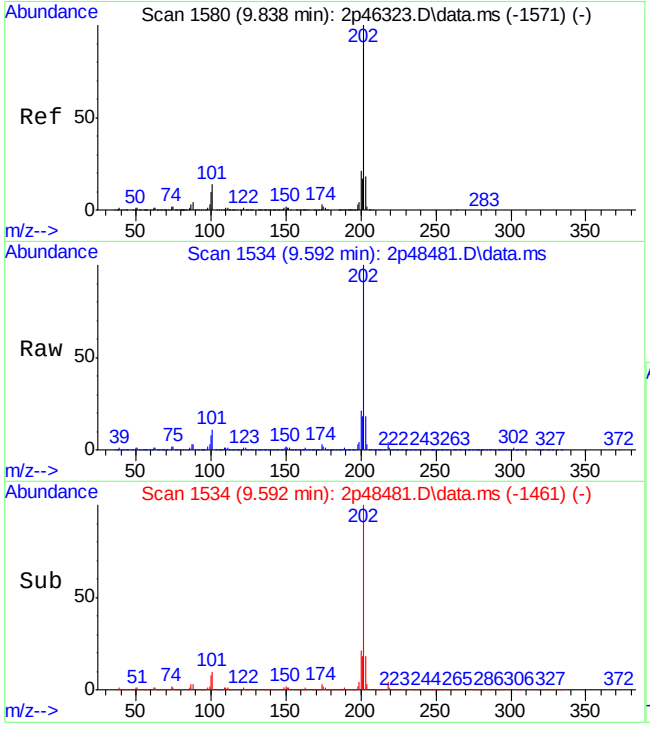


#81
Fluoranthene
Concen: 46.23 ppm
RT: 9.324 min Scan# 1484
Delta R.T. -0.107 min
Lab File: 2p48481.D
Acq: 11 May 2015 10:29 pm

Tgt Ion:202 Resp: 738288

Ion	Ratio	Lower	Upper
202	100		
101	10.0	0.0	43.1
203	17.5	0.0	47.4

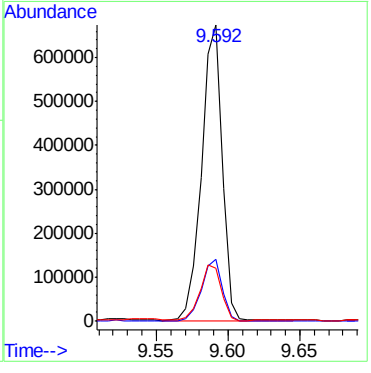


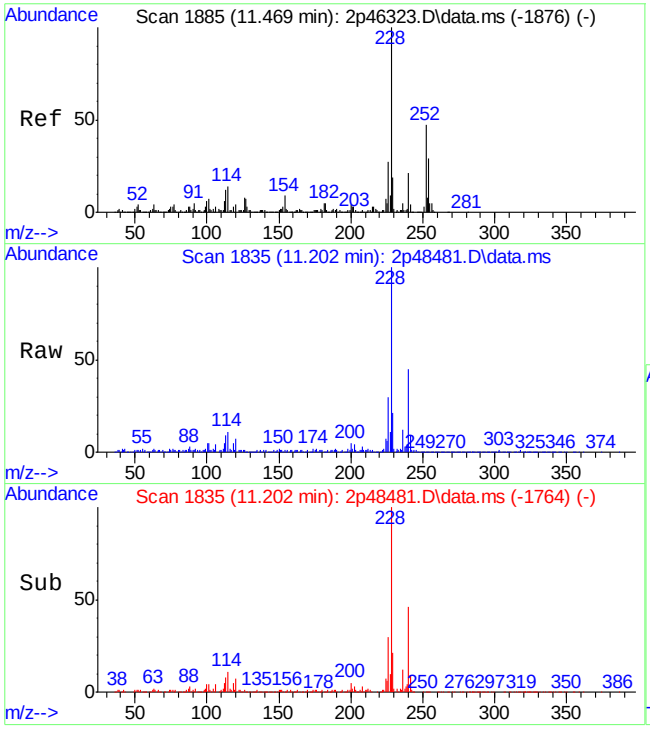


#84
Pyrene
Concen: 53.22 ppm
RT: 9.592 min Scan# 1534
Delta R.T. -0.107 min
Lab File: 2p48481.D
Acq: 11 May 2015 10:29 pm

Tgt Ion:202 Resp: 681364

Ion	Ratio	Lower	Upper
202	100		
200	20.7	0.0	51.0
203	17.4	0.0	47.4

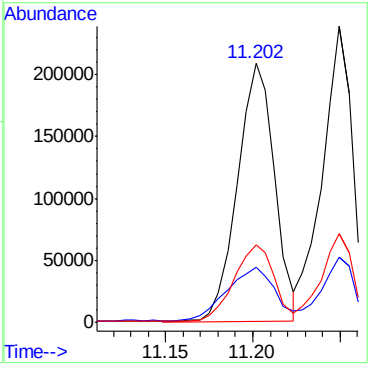


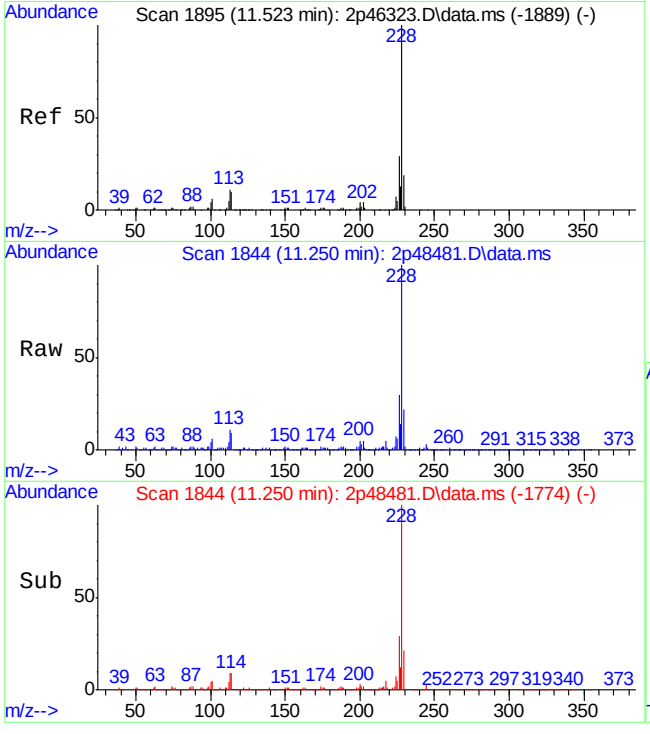


#88
Benzo[a]anthracene
Concen: 25.56 ppm
RT: 11.202 min Scan# 1835
Delta R.T. -0.118 min
Lab File: 2p48481.D
Acq: 11 May 2015 10:29 pm

Tgt Ion:228 Resp: 309599

Ion	Ratio	Lower	Upper
228	100		
229	20.0	0.0	50.1
226	29.5	0.0	57.2

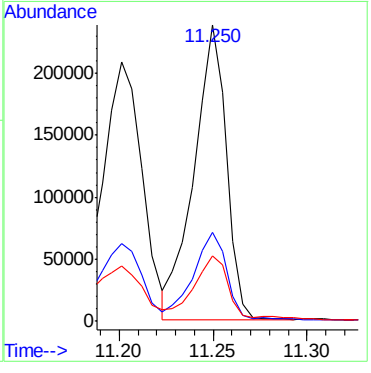




#90
Chrysene
Concen: 26.52 ppm
RT: 11.250 min Scan# 1844
Delta R.T. -0.123 min
Lab File: 2p48481.D
Acq: 11 May 2015 10:29 pm

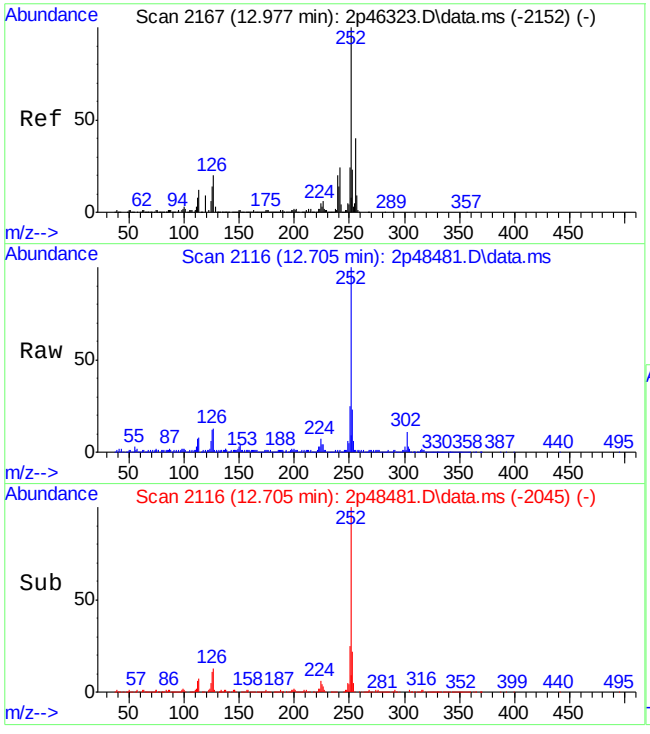
Tgt Ion:228 Resp: 286856

Ion	Ratio	Lower	Upper
228	100		
226	29.8	0.0	58.8
229	20.6	0.0	49.1



9.1.7

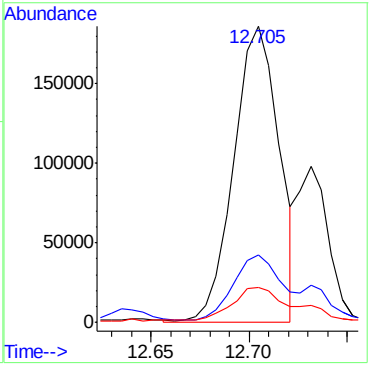
9

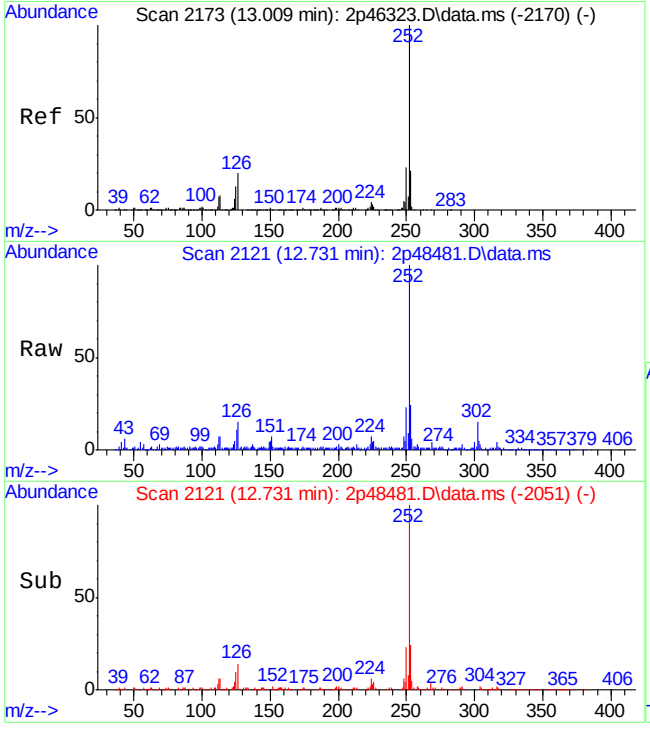


#94
Benzo[b]fluoranthene
Concen: 26.09 ppm m
RT: 12.705 min Scan# 2116
Delta R.T. -0.118 min
Lab File: 2p48481.D
Acq: 11 May 2015 10:29 pm

Tgt Ion:252 Resp: 298776

Ion	Ratio	Lower	Upper
252	100		
253	22.6	0.0	52.1
125	11.9	0.0	42.9

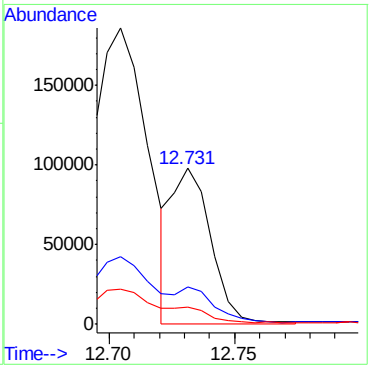


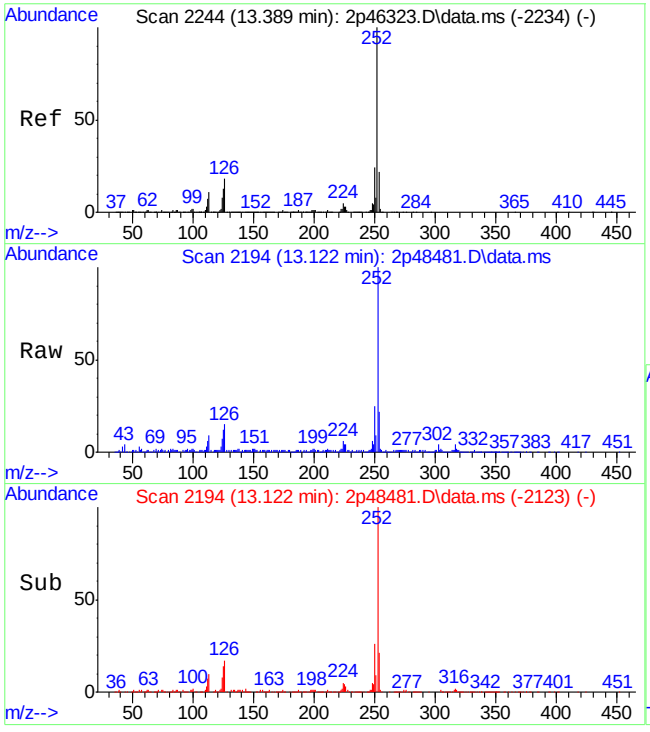


#95
Benzo[k]fluoranthene
Concen: 9.73 ppm m
RT: 12.731 min Scan# 2121
Delta R.T. -0.123 min
Lab File: 2p48481.D
Acq: 11 May 2015 10:29 pm

Tgt Ion:252 Resp: 105455

Ion	Ratio	Lower	Upper
252	100		
253	24.2	0.0	51.5
125	11.0	0.0	42.7

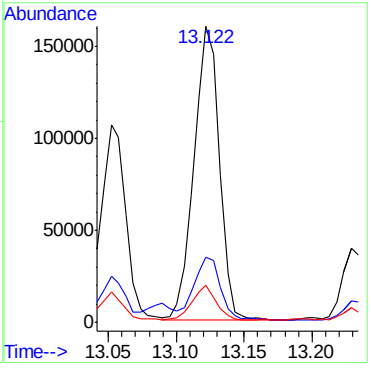


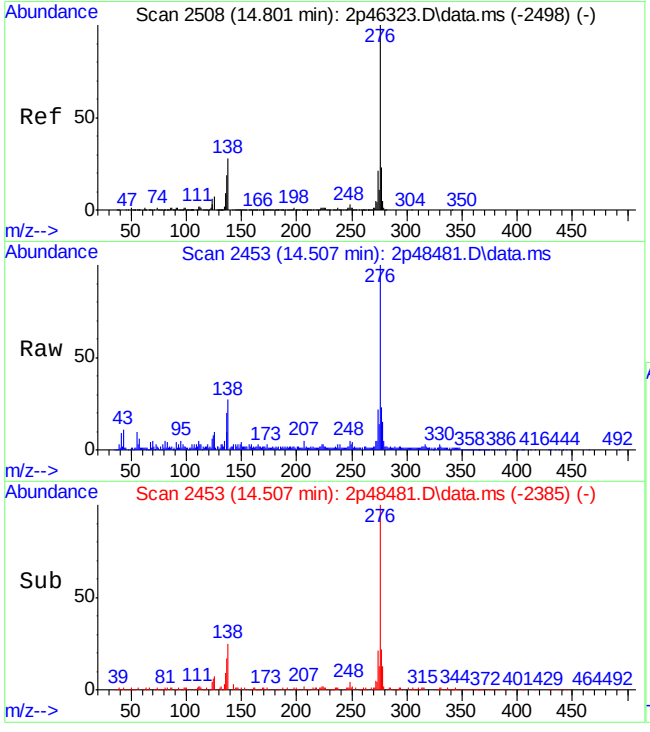


#96
Benzo[a]pyrene
Concen: 21.01 ppm
RT: 13.122 min Scan# 2194
Delta R.T. -0.118 min
Lab File: 2p48481.D
Acq: 11 May 2015 10:29 pm

Tgt Ion:252 Resp: 208021

Ion	Ratio	Lower	Upper
252	100		
253	18.7	0.0	51.8
125	11.6	0.0	45.1

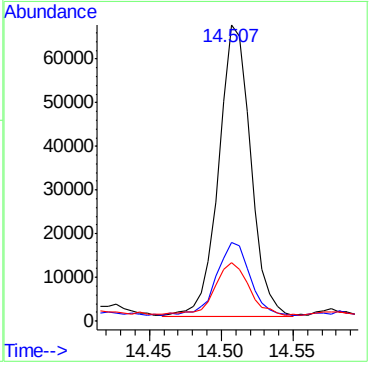


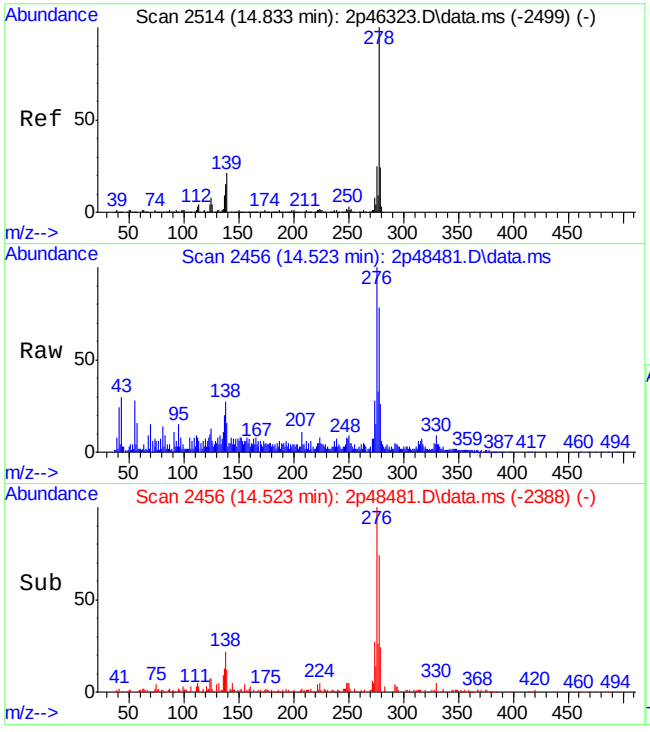


#97
Indeno[1,2,3-cd]pyrene
Concen: 9.10 ppm
RT: 14.507 min Scan# 2453
Delta R.T. -0.134 min
Lab File: 2p48481.D
Acq: 11 May 2015 10:29 pm

Tgt Ion:276 Resp: 103302

Ion	Ratio	Lower	Upper
276	100		
138	25.3	1.0	61.0
137	17.5	0.0	52.7

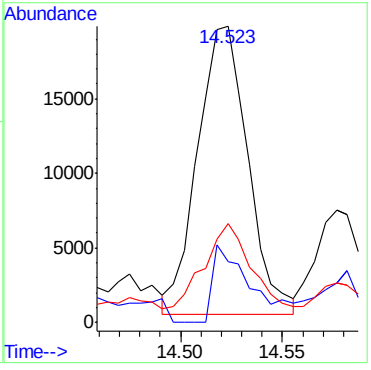


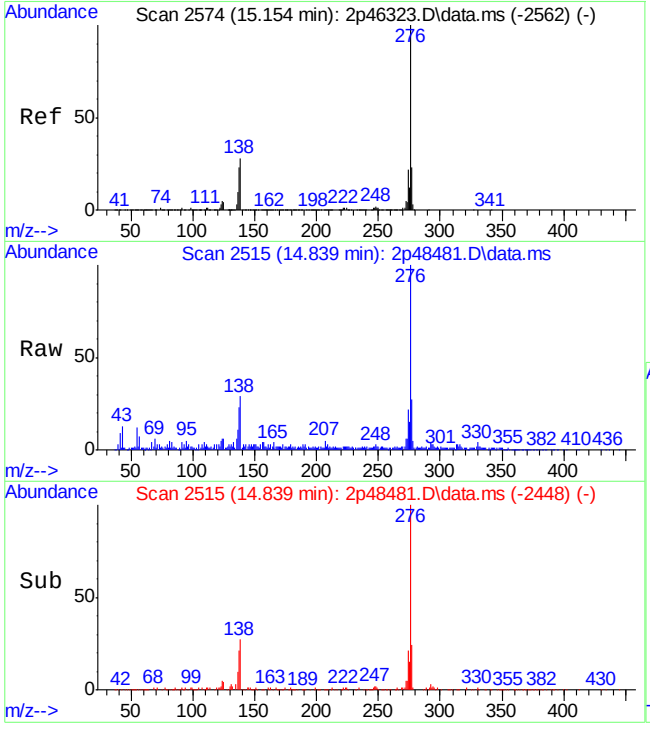


#99
Dibenz[a,h]anthracene
Concen: 3.60 ppm
RT: 14.523 min Scan# 2456
Delta R.T. -0.134 min
Lab File: 2p48481.D
Acq: 11 May 2015 10:29 pm

Tgt Ion:278 Resp: 33189

Ion	Ratio	Lower	Upper
278	100		
139	14.4	0.0	56.2
279	31.1	0.0	54.2

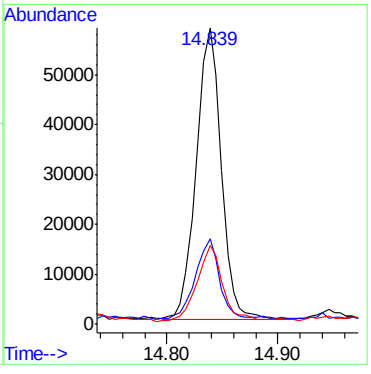




#101
Benzo[g,h,i]perylene
Concen: 9.75 ppm
RT: 14.839 min Scan# 2515
Delta R.T. -0.139 min
Lab File: 2p48481.D
Acq: 11 May 2015 10:29 pm

Tgt Ion:276 Resp: 91372

Ion	Ratio	Lower	Upper
276	100		
138	27.2	3.5	63.5
277	25.9	0.0	53.3



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48479.D
Acq On : 11 May 2015 9:47 pm
Operator : sarad
Sample : jb94209-4
Misc : op83787,e2p2069,30.4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 23:57:54 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.318	152	140279	40.00 ppm	-0.09
24) Naphthalene-d8	5.371	136	469010	40.00 ppm	-0.09
47) Acenaphthene-d10	6.805	164	292247	40.00 ppm	-0.09
69) Phenanthrene-d10	8.046	188	462550	40.00 ppm	-0.10
83) Chrysene-d12	11.196	240	434459	40.00 ppm	-0.14
92) Perylene-d12	13.180	264	351170	40.00 ppm	-0.14
102) 1,4-Dichlorobenzene-d4a	4.318	152	140279	40.00 ppm	-0.09
104) Naphthalene-d8a	5.371	136	469010	40.00 ppm	#-0.09
106) Acenaphthene-d10a	6.805	164	292247	40.00 ppm	-0.09
109) Chrysene-d12a	11.196	240	434459	40.00 ppm	-0.14
System Monitoring Compounds					
5) 2-Fluorophenol	3.280	112	124764	30.25 ppm	-0.12
Spiked Amount 50.000	Range 11 - 58		Recovery = 60.50%#		
8) Phenol-d5	4.131	99	156502	30.16 ppm	-0.10
Spiked Amount 50.000	Range 10 - 59		Recovery = 60.32%#		
25) Nitrobenzene-d5	4.788	82	168902	39.74 ppm	-0.09
Spiked Amount 50.000	Range 19 - 61		Recovery = 79.48%#		
51) 2-Fluorobiphenyl	6.265	172	380590	38.04 ppm	-0.08
Spiked Amount 50.000	Range 21 - 58		Recovery = 76.08%#		
73) 2,4,6-Tribromophenol	7.468	330	32159	29.92 ppm	-0.09
Spiked Amount 50.000	Range 12 - 68		Recovery = 59.84%		
85) Terphenyl-d14	9.800	244	374501	46.34 ppm	-0.12
Spiked Amount 50.000	Range 16 - 65		Recovery = 92.68%#		

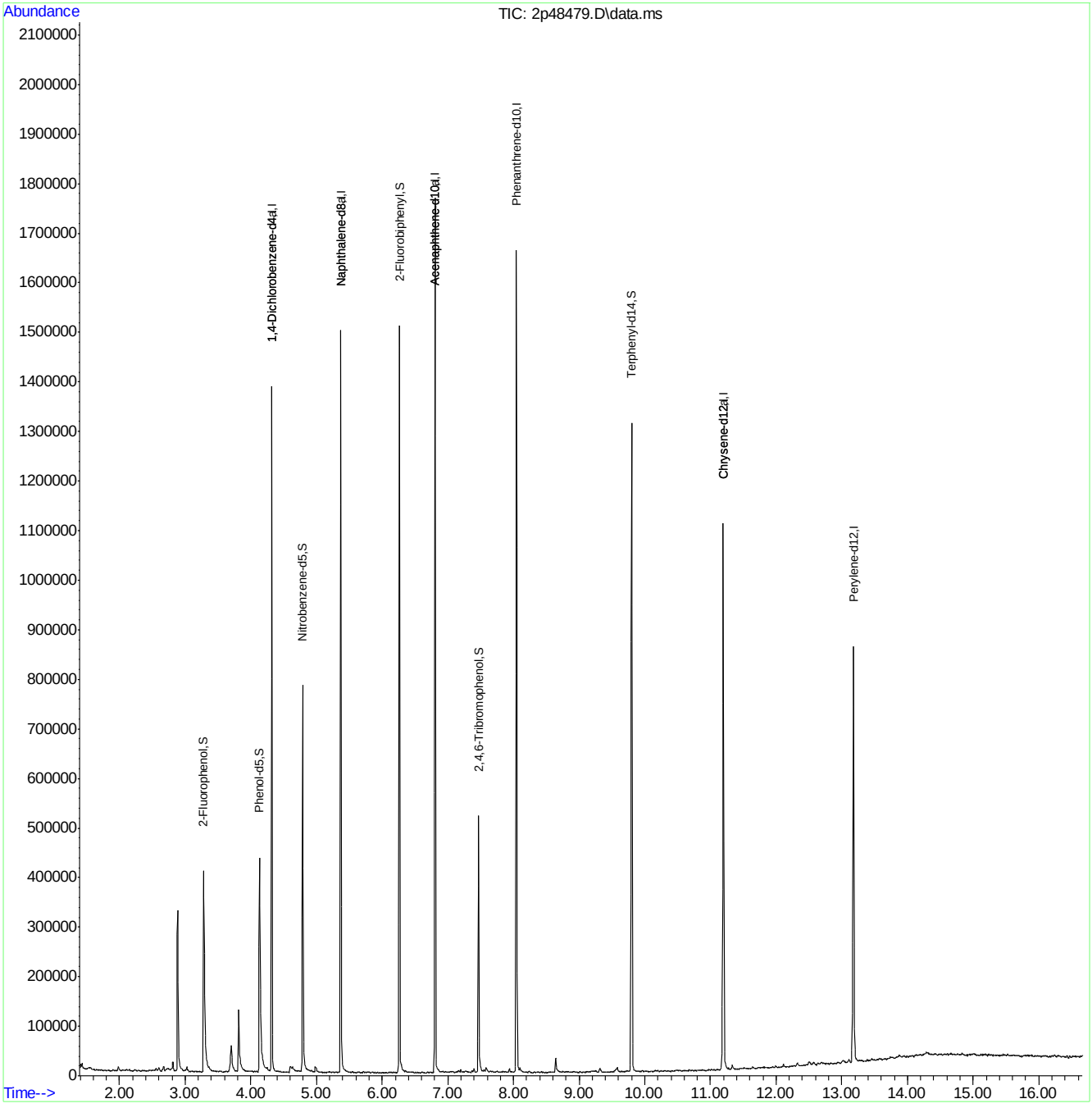
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48479.D
Acq On : 11 May 2015 9:47 pm
Operator : sarad
Sample : jb94209-4
Misc : op83787,e2p2069,30.4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 23:57:54 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48479.D
Acq On : 11 May 2015 9:47 pm
Operator : sarad
Sample : jb94209-4
Misc : op83787,e2p2069,30.4
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: 2p48479.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.408	3	4	6	rBV2	6460	5012	0.38%	0.039%
2	1.430	6	8	14	rVB2	11982	10445	0.80%	0.081%
3	1.542	24	29	31	rBV5	3181	4355	0.33%	0.034%
4	1.900	91	96	101	rVV8	2731	4428	0.34%	0.034%
5	1.980	107	111	120	rVV	9493	14427	1.10%	0.111%
6	2.103	128	134	139	rVV10	4453	8036	0.61%	0.062%
7	2.146	139	142	149	rVB9	3031	5089	0.39%	0.039%
8	2.237	153	159	164	rVB10	2757	4995	0.38%	0.039%
9	2.456	196	200	203	rVV5	2494	4115	0.31%	0.032%
10	2.505	205	209	215	rVV8	2878	6837	0.52%	0.053%
11	2.558	215	219	223	rVV4	6435	9610	0.74%	0.074%
12	2.601	223	227	232	rVB4	7382	10673	0.82%	0.082%
13	2.676	232	241	244	rBV3	10441	16562	1.27%	0.128%
14	2.729	244	251	259	rVV3	7134	22351	1.71%	0.173%
15	2.809	259	266	270	rVV	18742	28322	2.17%	0.219%
16	2.884	274	280	297	rVV	324653	339756	26.00%	2.624%
17	3.023	297	306	313	rVB3	10829	19506	1.49%	0.151%
18	3.280	349	354	378	rBV	405047	538022	41.17%	4.154%
19	3.516	397	398	408	rVB9	2096	3561	0.27%	0.027%
20	3.703	421	433	445	rBV	52801	106662	8.16%	0.824%
21	3.815	450	454	476	rVV	125610	165251	12.65%	1.276%
22	3.986	482	486	496	rVB9	2243	5784	0.44%	0.045%
23	4.131	509	513	532	rBV2	432237	612390	46.87%	4.729%
24	4.243	532	534	543	rVV2	8714	14708	1.13%	0.114%
25	4.318	543	548	562	rVB	1382198	928276	71.04%	7.168%
26	4.601	598	601	605	rBV2	12835	22333	1.71%	0.172%
27	4.633	605	607	616	rVB2	10071	17129	1.31%	0.132%
28	4.788	630	636	650	rBV	778427	584899	44.76%	4.516%
29	4.917	658	660	666	rVB7	2588	3638	0.28%	0.028%
30	4.981	666	672	685	rVB6	12059	22248	1.70%	0.172%
31	5.371	736	745	759	rBV	1497992	1079900	82.64%	8.339%
32	5.634	789	794	801	rBV8	1728	4163	0.32%	0.032%
33	6.265	905	912	927	rBV	1506386	1185975	90.76%	9.158%
34	6.703	986	994	996	rBV8	2037	3710	0.28%	0.029%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48479.D
Acq On : 11 May 2015 9:47 pm
Operator : sarad
Sample : jb94209-4
Misc : op83787,e2p2069,30.4
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

35	6.805	1005	1013	1027	rBV	1765259	1262912	96.65%	9.752%
36	7.163	1075	1080	1083	rVB7	3923	3716	0.28%	0.029%
37	7.195	1083	1086	1091	rBV5	5674	5497	0.42%	0.042%
38	7.281	1095	1102	1104	rVB8	2820	4709	0.36%	0.036%
39	7.372	1115	1119	1121	rBV	5628	5563	0.43%	0.043%
40	7.399	1121	1124	1129	rVV	7165	6755	0.52%	0.052%
41	7.468	1129	1137	1149	rVV	517476	431405	33.02%	3.331%
42	7.554	1149	1153	1156	rVV6	5689	7657	0.59%	0.059%
43	7.580	1156	1158	1166	rVB6	9917	14164	1.08%	0.109%
44	7.752	1183	1190	1195	rBV7	2913	4476	0.34%	0.035%
45	7.939	1221	1225	1228	rBV2	7054	5962	0.46%	0.046%
46	8.046	1235	1245	1253	rVV	1658347	1280542	98.00%	9.888%
47	8.099	1253	1255	1267	rVB3	10386	14458	1.11%	0.112%
48	8.238	1278	1281	1286	rVB5	4316	4403	0.34%	0.034%
49	8.372	1300	1306	1312	rBV9	1953	4133	0.32%	0.032%
50	8.645	1350	1357	1368	rBV	28303	41249	3.16%	0.319%
51	9.153	1446	1452	1454	rVV5	2544	4455	0.34%	0.034%
52	9.196	1454	1460	1463	rVV8	3246	7715	0.59%	0.060%
53	9.255	1468	1471	1477	rVV8	3812	6386	0.49%	0.049%
54	9.319	1477	1483	1492	rVB	8140	13366	1.02%	0.103%
55	9.581	1522	1532	1537	rBV5	9401	18227	1.39%	0.141%
56	9.731	1555	1560	1563	rBV6	2532	3955	0.30%	0.031%
57	9.800	1565	1573	1586	rVB	1309157	1275063	97.58%	9.846%
58	10.159	1635	1640	1645	rBV8	2685	6393	0.49%	0.049%
59	10.201	1645	1648	1651	rVV5	3953	3897	0.30%	0.030%
60	10.314	1664	1669	1674	rVV9	2269	3736	0.29%	0.029%
61	10.485	1694	1701	1707	rVV10	2900	7340	0.56%	0.057%
62	10.602	1717	1723	1726	rBV7	2934	5444	0.42%	0.042%
63	10.816	1757	1763	1766	rBV8	2366	4007	0.31%	0.031%
64	10.881	1772	1775	1782	rVB9	3058	6649	0.51%	0.051%
65	10.950	1782	1788	1790	rBV7	2827	4742	0.36%	0.037%
66	11.196	1824	1834	1848	rVV	1102479	1306686	100.00%	10.090%
67	11.335	1854	1860	1868	rVV3	9212	16283	1.25%	0.126%
68	11.640	1912	1917	1922	rBV8	3921	5635	0.43%	0.044%
69	11.742	1927	1936	1939	rBV8	3370	7044	0.54%	0.054%
70	11.988	1978	1982	1988	rVB9	3393	5540	0.42%	0.043%
71	12.111	1999	2005	2012	rVV8	6723	11986	0.92%	0.093%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48479.D
Acq On : 11 May 2015 9:47 pm
Operator : sarad
Sample : jb94209-4
Misc : op83787,e2p2069,30.4
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

72	12.212	2020	2024	2027	rBV6	2832	3710	0.28%	0.029%
73	12.325	2039	2045	2054	rBV6	8093	19773	1.51%	0.153%
74	12.501	2073	2078	2087	rVV6	6849	14948	1.14%	0.115%
75	12.571	2087	2091	2099	rVB9	6693	14103	1.08%	0.109%
76	12.694	2109	2114	2118	rVV8	3239	5133	0.39%	0.040%
77	13.020	2167	2175	2182	rBV8	7437	18083	1.38%	0.140%
78	13.111	2186	2192	2196	rVV9	6390	10203	0.78%	0.079%
79	13.180	2196	2205	2217	rVV	839084	1088416	83.30%	8.404%
80	13.266	2217	2221	2223	rVV5	3966	6330	0.48%	0.049%
81	13.459	2251	2257	2261	rBV9	4827	10330	0.79%	0.080%
82	13.566	2272	2277	2280	rBV7	3609	6074	0.46%	0.047%
83	13.715	2299	2305	2306	rBV6	3911	6451	0.49%	0.050%
84	13.838	2322	2328	2329	rBV6	3132	4024	0.31%	0.031%
85	13.876	2330	2335	2342	rVB6	5690	12124	0.93%	0.094%
86	13.945	2342	2348	2353	rVB10	4201	9360	0.72%	0.072%
87	13.993	2353	2357	2359	rBV5	3444	4167	0.32%	0.032%
88	14.042	2362	2366	2369	rBV6	2807	3856	0.30%	0.030%
89	14.133	2377	2383	2384	rBV6	5136	7977	0.61%	0.062%
90	14.261	2402	2407	2408	rBV5	3863	5056	0.39%	0.039%
91	14.288	2410	2412	2421	rVB10	6388	12683	0.97%	0.098%
92	14.929	2530	2532	2533	rBV2	4910	4118	0.32%	0.032%
93	14.978	2540	2541	2543	rVV2	5617	4248	0.33%	0.033%
94	14.999	2544	2545	2549	rVV4	5141	6701	0.51%	0.052%
95	16.063	2740	2744	2749	rBV8	3018	4769	0.36%	0.037%
96	16.277	2783	2784	2789	rBV5	4078	5891	0.45%	0.045%
97	16.368	2797	2801	2809	rVB5	2730	6616	0.51%	0.051%
98	16.432	2809	2813	2817	rVB7	5210	7316	0.56%	0.056%
99	16.470	2817	2820	2823	rBV5	6214	8402	0.64%	0.065%
100	16.604	2841	2845	2849	rVB7	2568	4223	0.32%	0.033%

Sum of corrected areas: 12950403

LSC Report - Integrated Chromatogram

```
Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48479.D
Acq On    : 11 May 2015   9:47 pm
Operator  : sarad
Sample    : jb94209-4
Misc      : op83787,e2p2069,30.4
ALS Vial  : 13   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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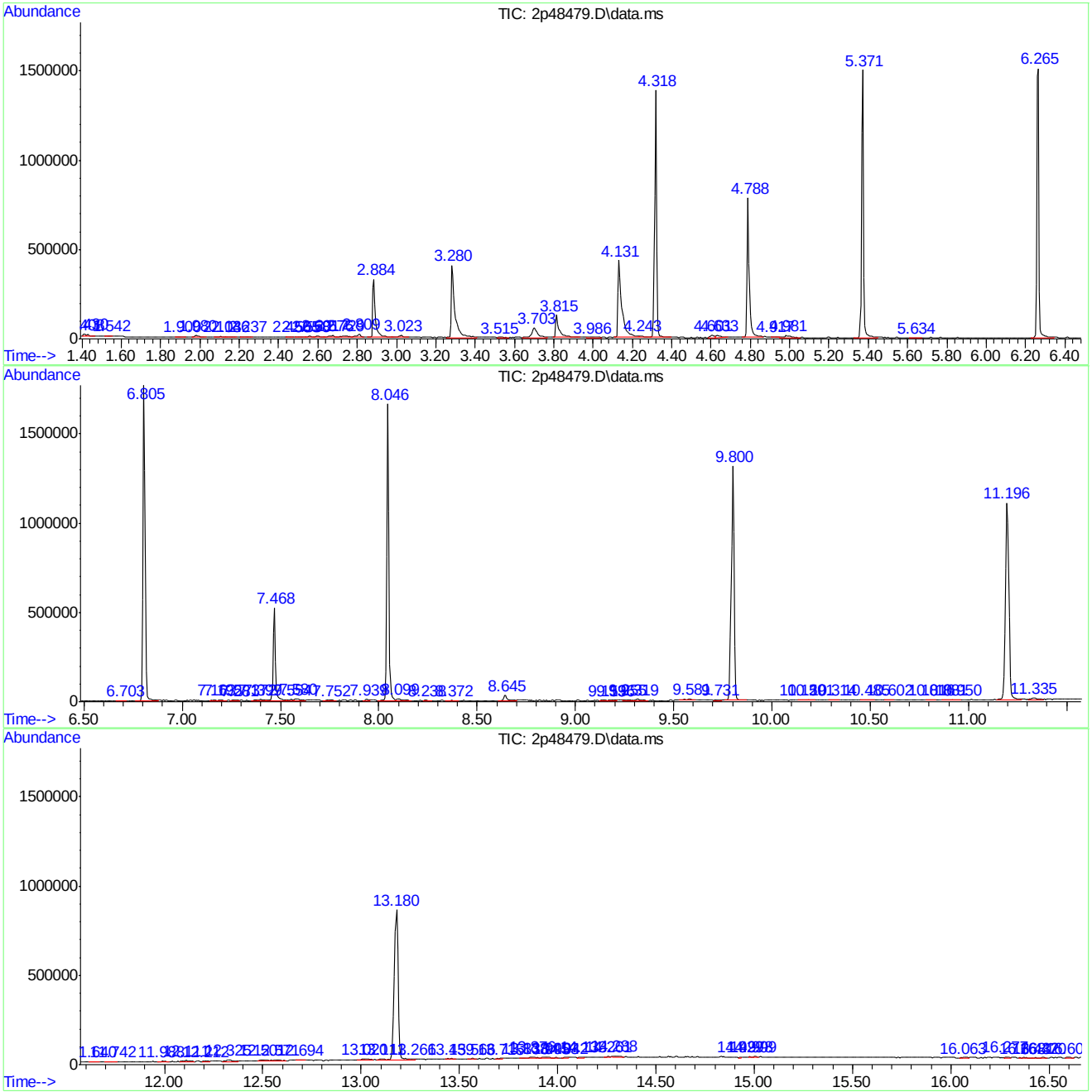


Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48479.D
Acq On : 11 May 2015 9:47 pm
Operator : sarad
Sample : jb94209-4
Misc : op83787,e2p2069,30.4
ALS Vial : 13 Sample Multiplier: 1

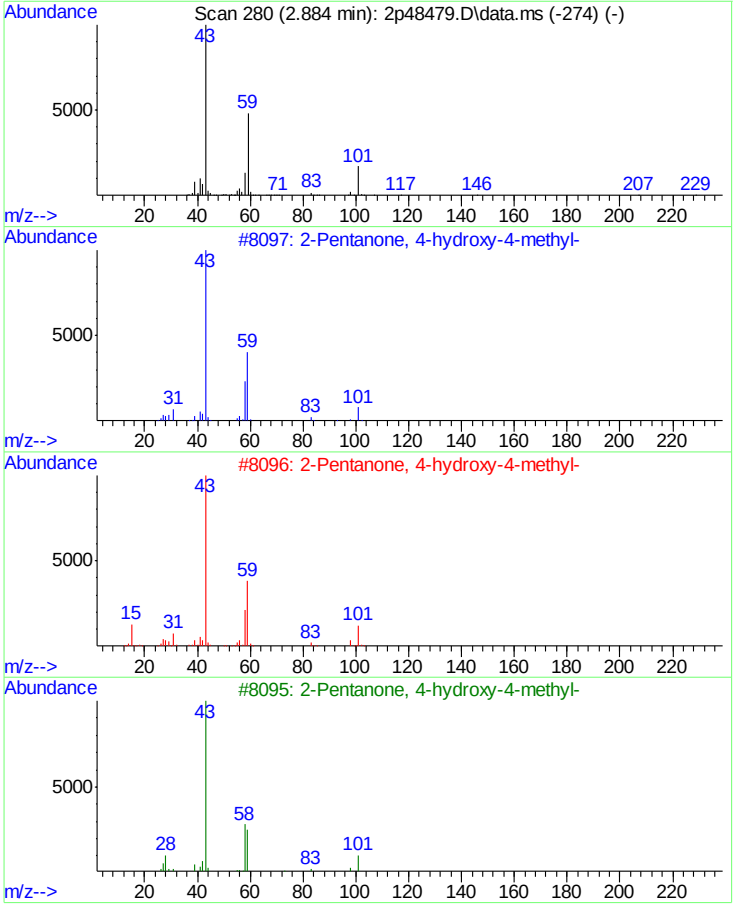
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

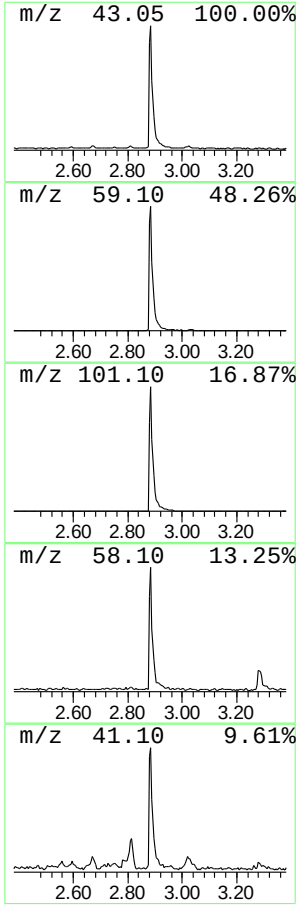
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 1 system artifact/aldol-conde... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.884	14.64 ppm	339756	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	28
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	27
5	1-Butene, 4-ethoxy-	100	C6H12O	044611-46-3	23





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48479.D
Acq On    : 11 May 2015   9:47 pm
Operator  : sarad
Sample    : jb94209-4
Misc      : op83787,e2p2069,30.4
ALS Vial  : 13   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```
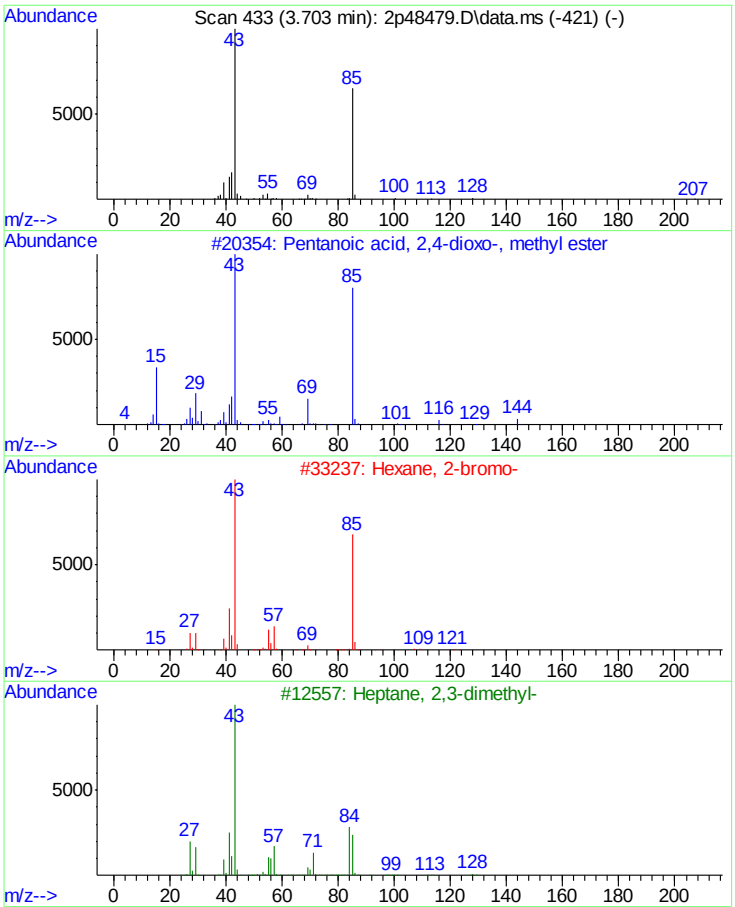
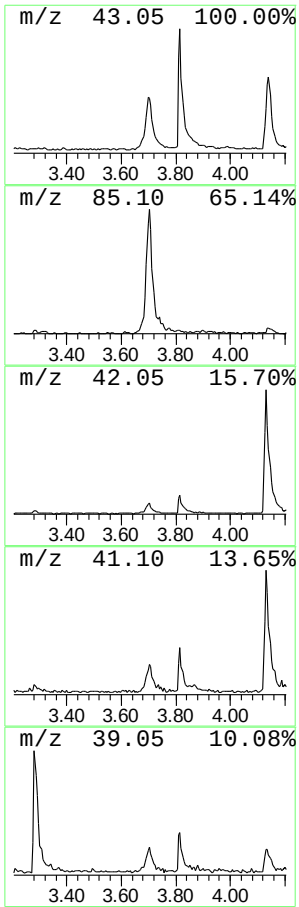

****

Peak Number 2 system artifact Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.703	4.60 ppm	106662	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentanoic acid, 2,4-dioxo-, meth...	144	C6H8O4	020577-61-1	39
2	Hexane, 2-bromo-	164	C6H13Br	003377-86-4	38
3	Heptane, 2,3-dimethyl-	128	C9H20	003074-71-3	38
4	1-Tetrazol-2-ylethanone	112	C3H4N4O	051410-11-8	10
5	Thiazole	85	C3H3NS	000288-47-1	9





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48479.D
Acq On : 11 May 2015 9:47 pm
Operator : sarad
Sample : jb94209-4
Misc : op83787,e2p2069,30.4
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

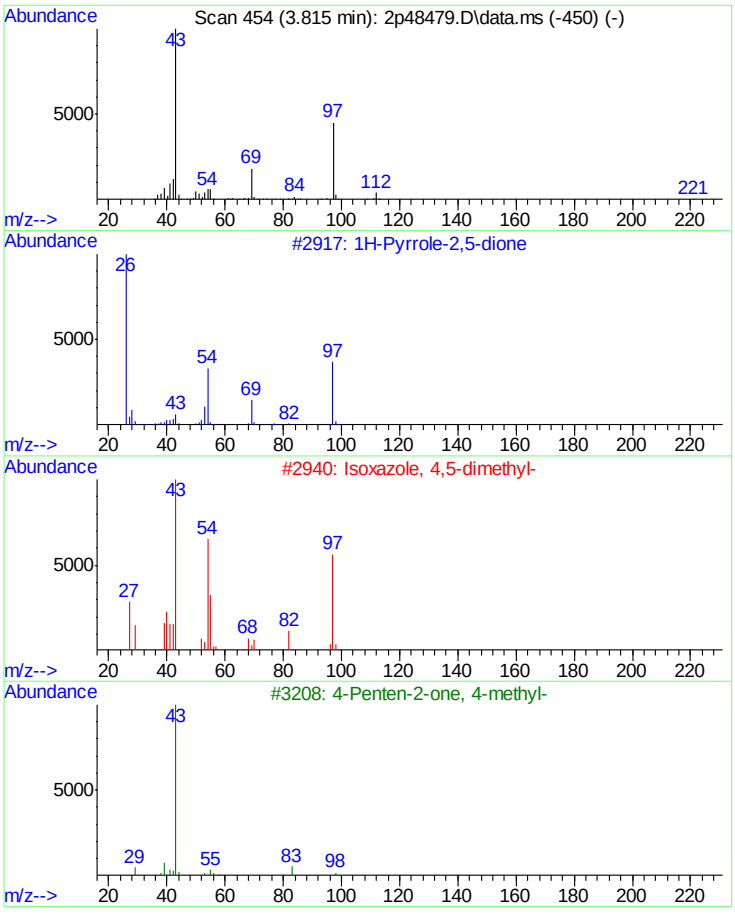
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

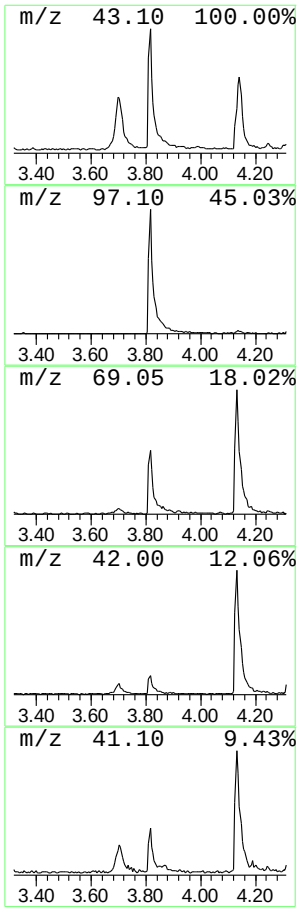
****

Peak Number 3 system artifact Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.815	7.12 ppm	165251	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	28
2	Isoxazole, 4,5-dimethyl-	97	C5H7NO	007064-40-6	9
3	4-Penten-2-one, 4-methyl-	98	C6H10O	003744-02-3	9
4	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	9
5	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	9





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48479.D
Acq On : 11 May 2015 9:47 pm
Operator : sarad
Sample : jb94209-4
Misc : op83787,e2p2069,30.4
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
system artifact...	2.884	14.6	ppm	339756	1	4.318	928276	40.0
system artifact	3.703	4.6	ppm	106662	1	4.318	928276	40.0
system artifact	3.815	7.1	ppm	165251	1	4.318	928276	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Kristin Weiler
05/14/15 10:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48482.D
Acq On : 11 May 2015 10:50 pm
Operator : sarad
Sample : jb94209-5
Misc : op83787,e2p2069,30.4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 12 08:42:32 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.318	152	167367	40.00 ppm	-0.09
24) Naphthalene-d8	5.372	136	540339	40.00 ppm	-0.09
47) Acenaphthene-d10	6.810	164	322205	40.00 ppm	-0.09
69) Phenanthrene-d10	8.062	188	487456	40.00 ppm	-0.09
83) Chrysene-d12	11.250	240	536539	40.00 ppm	-0.09
92) Perylene-d12	13.239	264	420221	40.00 ppm	-0.08
102) 1,4-Dichlorobenzene-d4a	4.318	152	167367	40.00 ppm	-0.09
104) Naphthalene-d8a	5.372	136	540339	40.00 ppm	#-0.09
106) Acenaphthene-d10a	6.810	164	322205	40.00 ppm	-0.09
109) Chrysene-d12a	11.250	240	535319	40.00 ppm	-0.09
System Monitoring Compounds					
5) 2-Fluorophenol	3.286	112	140561	28.56 ppm	-0.11
Spiked Amount 50.000	Range 11 - 58		Recovery = 57.12%		
8) Phenol-d5	4.136	99	166463	26.88 ppm	-0.09
Spiked Amount 50.000	Range 10 - 59		Recovery = 53.76%		
25) Nitrobenzene-d5	4.789	82	164906	33.68 ppm	-0.09
Spiked Amount 50.000	Range 19 - 61		Recovery = 67.36%#		
51) 2-Fluorobiphenyl	6.265	172	369296	33.48 ppm	-0.08
Spiked Amount 50.000	Range 21 - 58		Recovery = 66.96%#		
73) 2,4,6-Tribromophenol	7.474	330	37964	33.52 ppm	-0.08
Spiked Amount 50.000	Range 12 - 68		Recovery = 67.04%		
85) Terphenyl-d14	9.816	244	310014	31.06 ppm	-0.10
Spiked Amount 50.000	Range 16 - 65		Recovery = 62.12%		
Target Compounds					Qvalue
38) Naphthalene	5.388	128	423596	29.86 ppm	100
44) 2-Methylnaphthalene	5.960	141	105361	12.53 ppm	96
53) Biphenyl	6.345	154	45386	3.72 ppm	96
56) Acenaphthylene	6.693	152	147421	9.72 ppm	97
59) Acenaphthene	6.837	153	409457	43.29 ppm	98
62) Dibenzofuran	6.982	168	388526	30.68 ppm	93
66) Fluorene	7.260	166	513105	49.50 ppm	99
77) Phenanthrene	8.099	178	7520760	560.95 ppm	98
78) Anthracene	8.137	178	1469316	108.36 ppm	98
79) Carbazole	8.308	167	687468	52.49 ppm	98
81) Fluoranthene	9.367	202	9873926	614.98 ppm	99
84) Pyrene	9.634	202	8190480	500.04 ppm	92
88) Benzo[a]anthracene	11.239	228	3697893	238.64 ppm	96
90) Chrysene	11.298	228	3341960	241.51 ppm	93
91) bis(2-Ethylhexyl)phtha...	11.357	149	44614	5.09 ppm	92
94) Benzo[b]fluoranthene	12.763	252	4337817m	338.24 ppm	
95) Benzo[k]fluoranthene	12.790	252	870498m	71.69 ppm	
96) Benzo[a]pyrene	13.186	252	2785728	251.22 ppm	96
97) Indeno[1,2,3-cd]pyrene	14.577	276	1580467	124.36 ppm	95
99) Dibenz[a,h]anthracene	14.582	278	497005	48.16 ppm	91
101) Benzo[g,h,i]perylene	14.919	276	1372077	130.78 ppm	94
103) Benzaldehyde	3.960	105	2671	0.86 ppm	84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48482.D
Acq On : 11 May 2015 10:50 pm
Operator : sarad
Sample : jb94209-5
Misc : op83787,e2p2069,30.4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 12 08:42:32 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

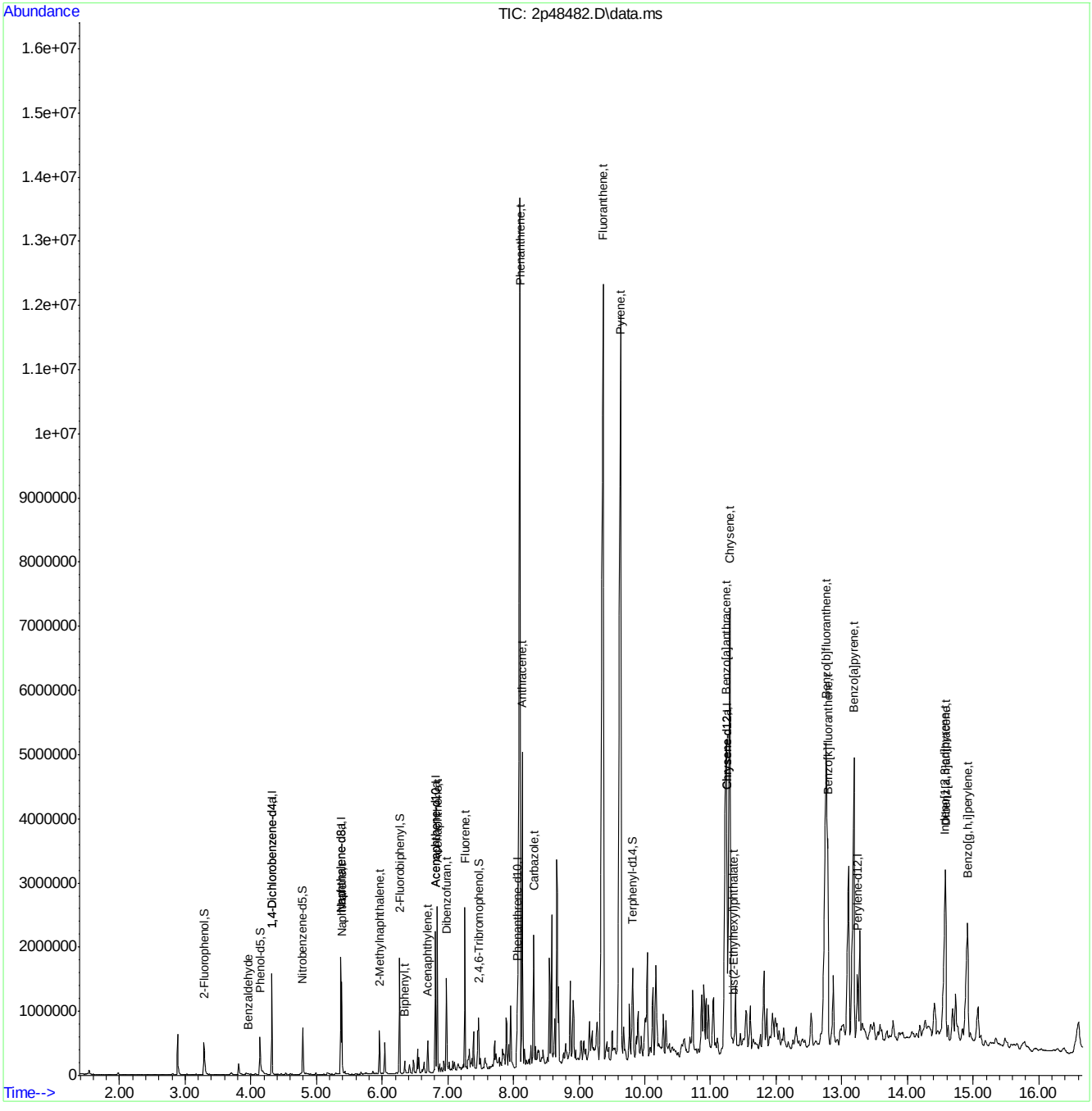
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

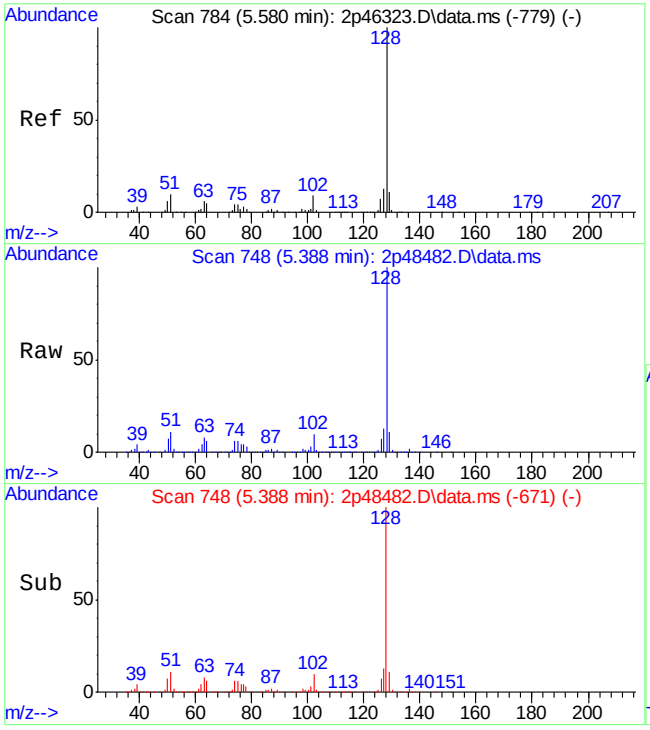
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48482.D
Acq On : 11 May 2015 10:50 pm
Operator : sarad
Sample : jb94209-5
Misc : op83787,e2p2069,30.4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 12 08:42:32 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

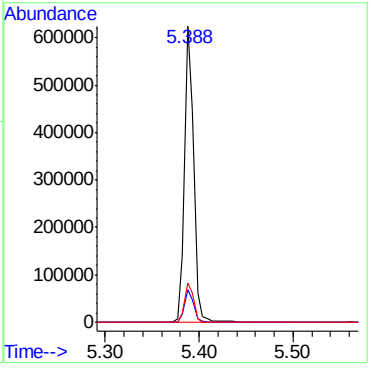


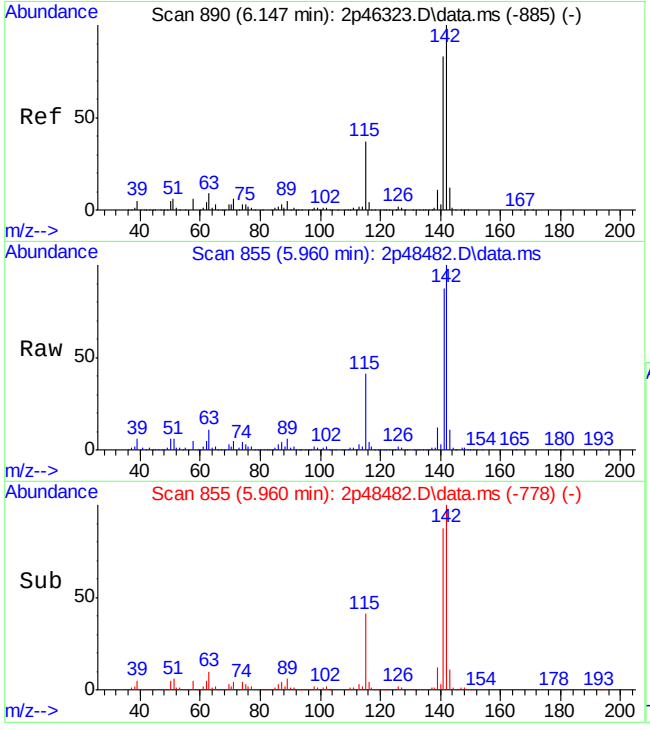


#38
Naphthalene
Concen: 29.86 ppm
RT: 5.388 min Scan# 748
Delta R.T. -0.085 min
Lab File: 2p48482.D
Acq: 11 May 2015 10:50 pm

Tgt Ion:128 Resp: 423596

Ion	Ratio	Lower	Upper
128	100		
129	11.0	0.0	41.0
127	13.1	0.0	43.4

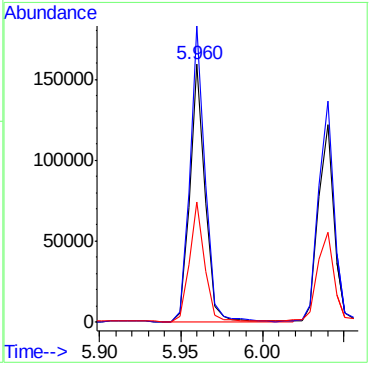


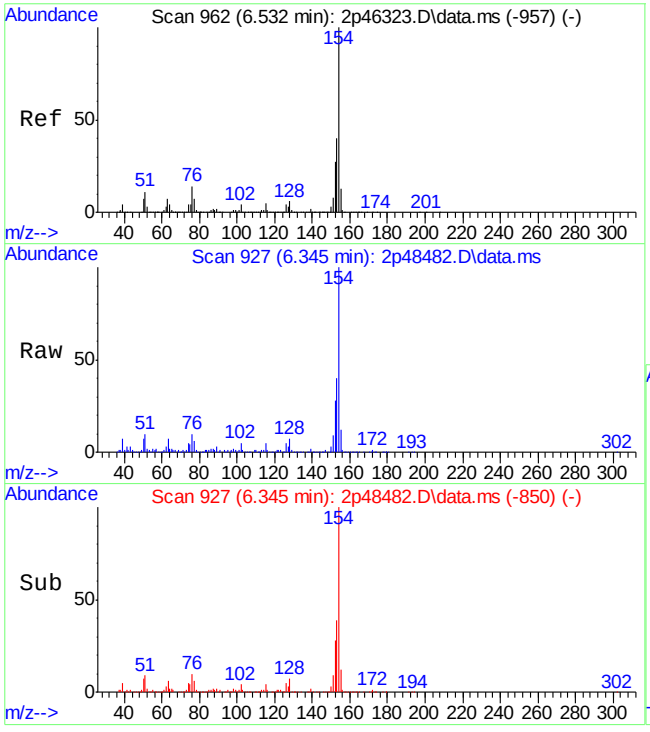


#44
2-Methylnaphthalene
Concen: 12.53 ppm
RT: 5.960 min Scan# 855
Delta R.T. -0.085 min
Lab File: 2p48482.D
Acq: 11 May 2015 10:50 pm

Tgt Ion:141 Resp: 105361

Ion	Ratio	Lower	Upper
141	100		
142	114.4	85.1	145.1
115	46.0	6.3	66.3

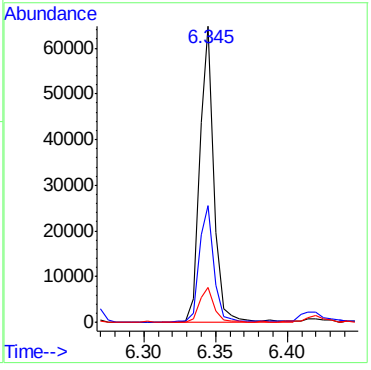


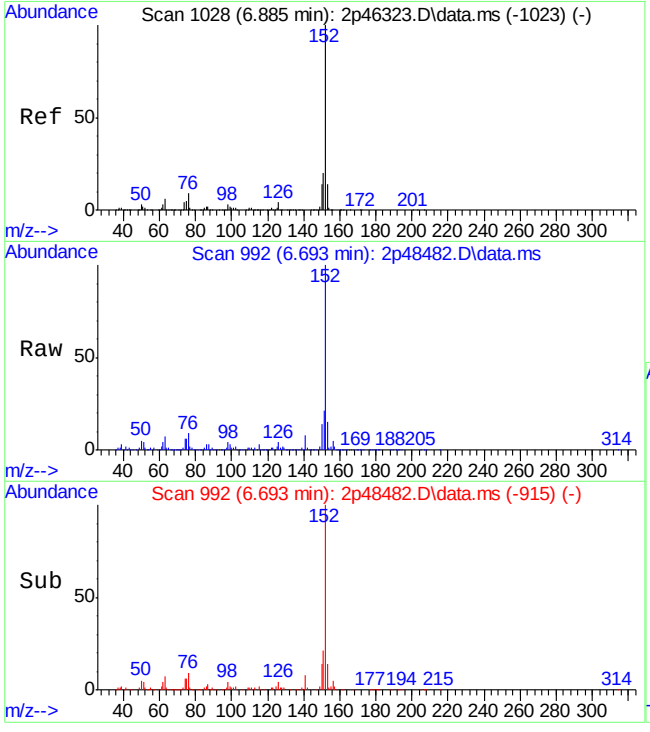


#53
Biphenyl
Concen: 3.72 ppm
RT: 6.345 min Scan# 927
Delta R.T. -0.085 min
Lab File: 2p48482.D
Acq: 11 May 2015 10:50 pm

Tgt Ion:154 Resp: 45386

Ion	Ratio	Lower	Upper
154	100		
153	39.3	12.1	72.1
155	11.4	0.0	43.1

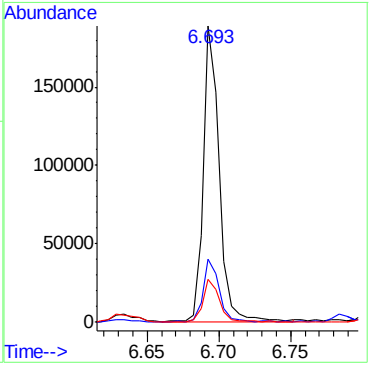




#56
Acenaphthylene
Concen: 9.72 ppm
RT: 6.693 min Scan# 992
Delta R.T. -0.085 min
Lab File: 2p48482.D
Acq: 11 May 2015 10:50 pm

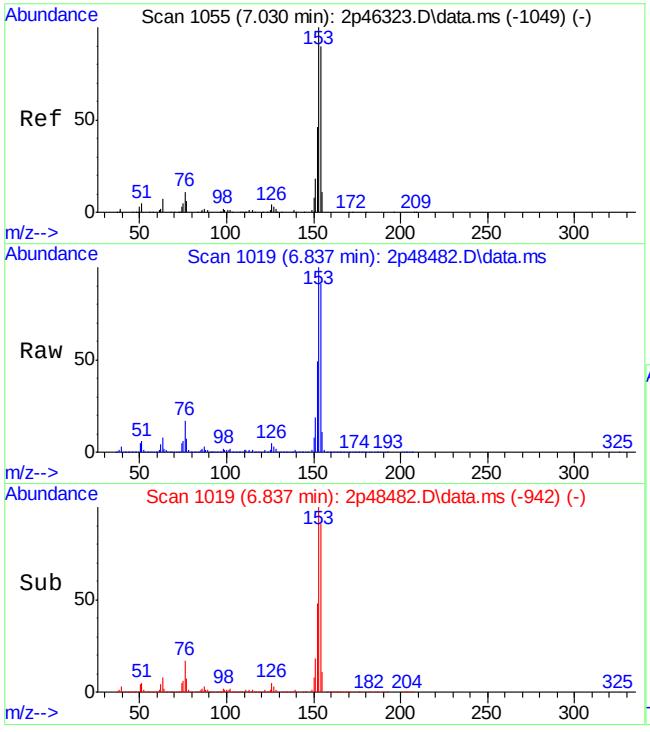
Tgt Ion:152 Resp: 147421

Ion	Ratio	Lower	Upper
152	100		
151	21.0	0.0	49.7
153	14.4	0.0	42.8



9.1.10

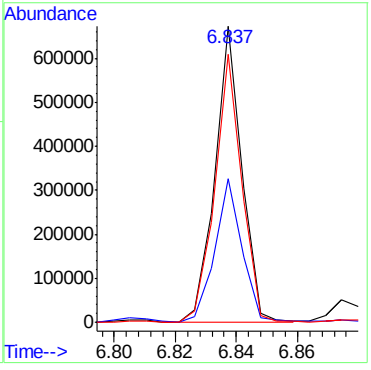
9

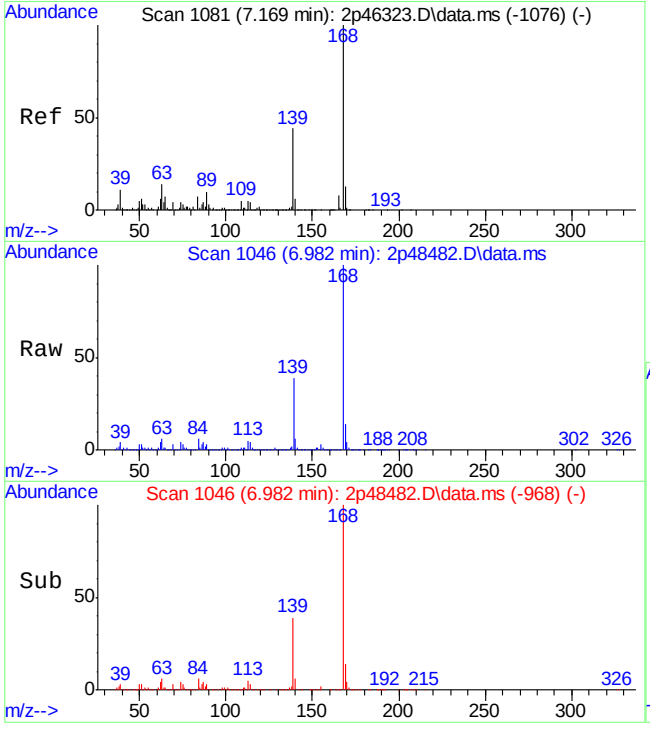


#59
Acenaphthene
Concen: 43.29 ppm
RT: 6.837 min Scan# 1019
Delta R.T. -0.085 min
Lab File: 2p48482.D
Acq: 11 May 2015 10:50 pm

Tgt Ion:153 Resp: 409457

Ion	Ratio	Lower	Upper
153	100		
152	48.4	16.9	76.9
154	90.6	58.3	118.3

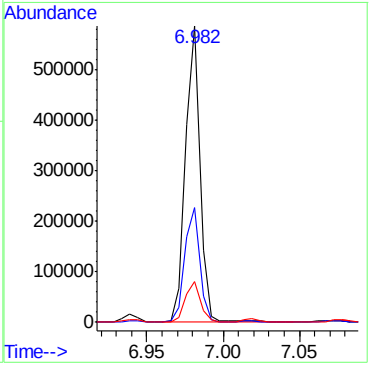




#62
Dibenzofuran
Concen: 30.68 ppm
RT: 6.982 min Scan# 1046
Delta R.T. -0.080 min
Lab File: 2p48482.D
Acq: 11 May 2015 10:50 pm

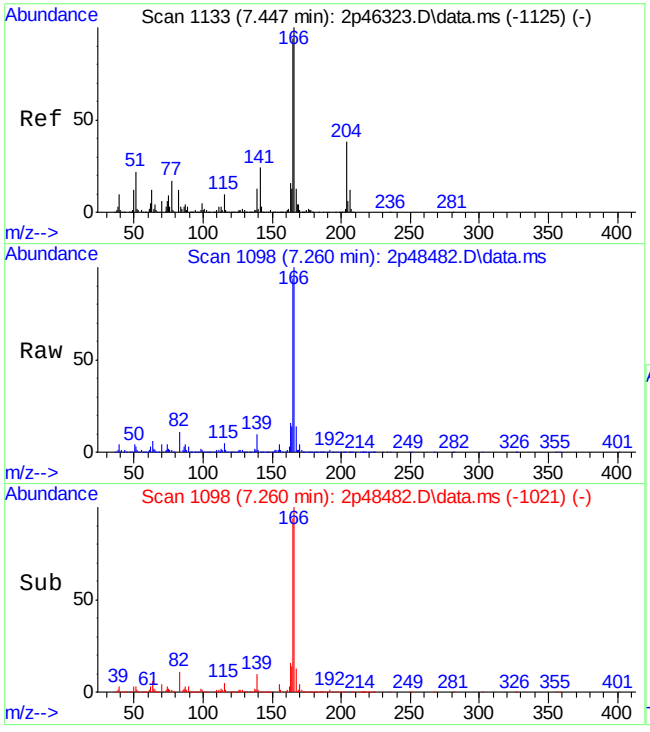
Tgt Ion:168 Resp: 388526

Ion	Ratio	Lower	Upper
168	100		
139	38.8	3.6	63.6
169	13.5	0.0	43.3



9.1.10

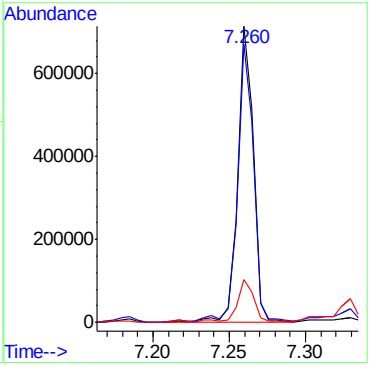
9

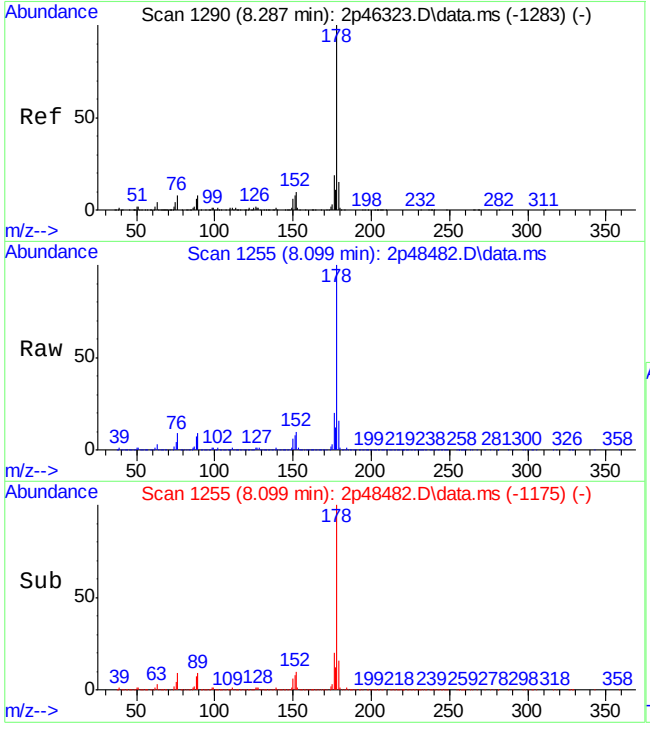


#66
Fluorene
Concen: 49.50 ppm
RT: 7.260 min Scan# 1098
Delta R.T. -0.086 min
Lab File: 2p48482.D
Acq: 11 May 2015 10:50 pm

Tgt Ion:166 Resp: 513105

Ion	Ratio	Lower	Upper
166	100		
165	94.0	65.0	125.0
167	14.2	0.0	43.9

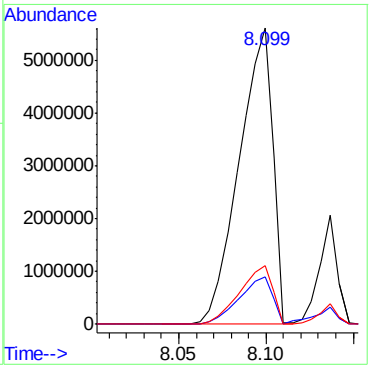




#77
Phenanthrene
Concen: 560.95 ppm
RT: 8.099 min Scan# 1255
Delta R.T. -0.069 min
Lab File: 2p48482.D
Acq: 11 May 2015 10:50 pm

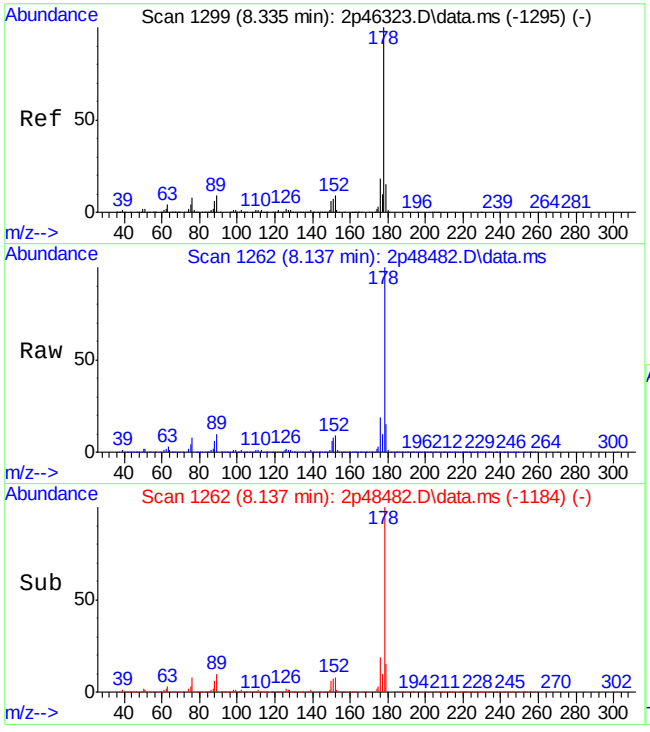
Tgt Ion:178 Resp: 7520760

Ion	Ratio	Lower	Upper
178	100		
179	15.6	0.0	45.4
176	19.9	0.0	48.5



9.1.10

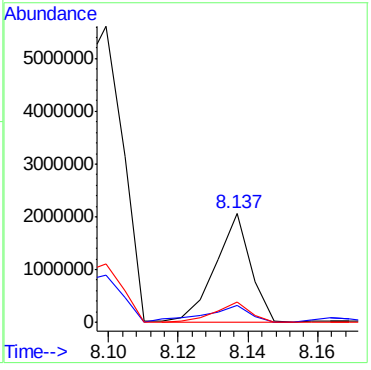
9

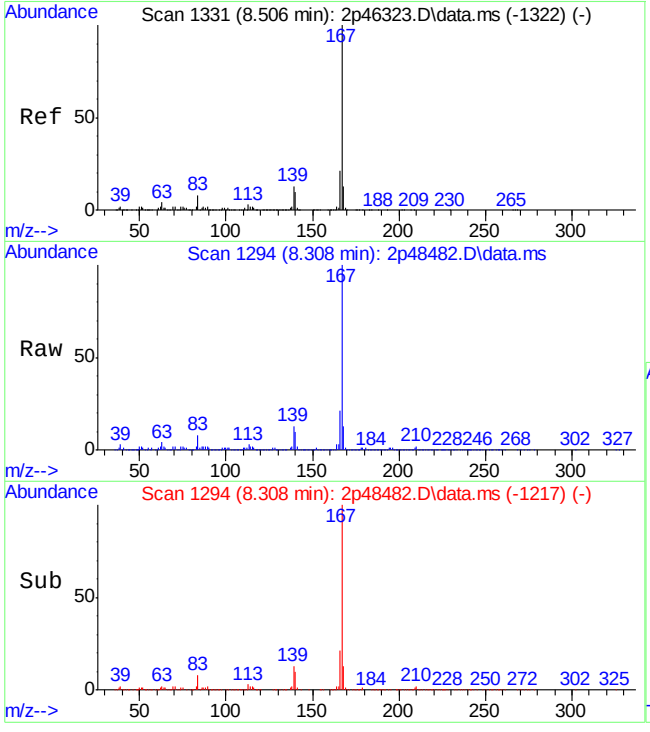


#78
Anthracene
Concen: 108.36 ppm
RT: 8.137 min Scan# 1262
Delta R.T. -0.080 min
Lab File: 2p48482.D
Acq: 11 May 2015 10:50 pm

Tgt Ion:178 Resp: 1469316

Ion	Ratio	Lower	Upper
178	100		
179	14.0	0.0	45.2
176	18.8	0.0	48.1

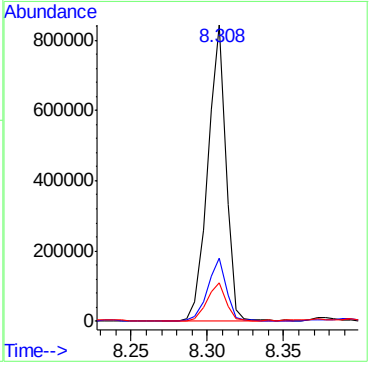




#79
Carbazole
Concen: 52.49 ppm
RT: 8.308 min Scan# 1294
Delta R.T. -0.086 min
Lab File: 2p48482.D
Acq: 11 May 2015 10:50 pm

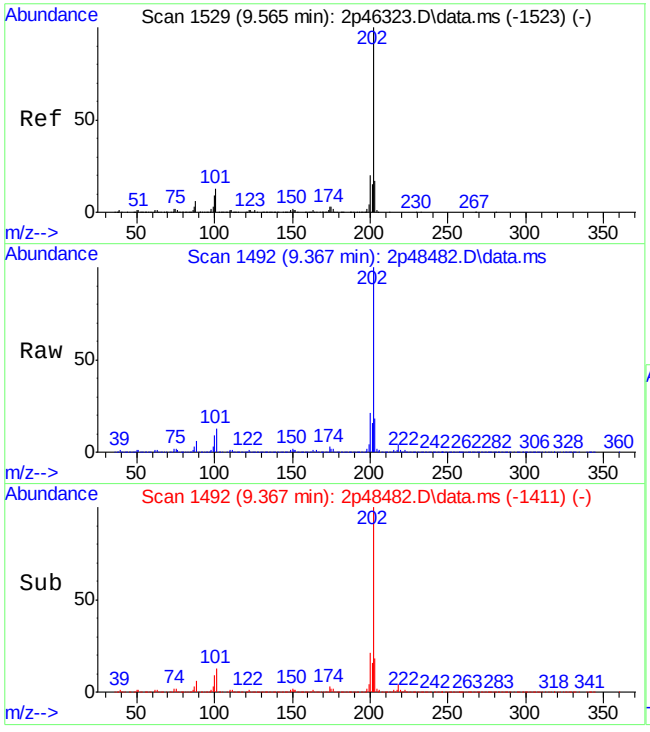
Tgt Ion:167 Resp: 687468

Ion	Ratio	Lower	Upper
167	100		
166	21.2	0.0	50.6
139	12.8	0.0	41.7



9.1.10

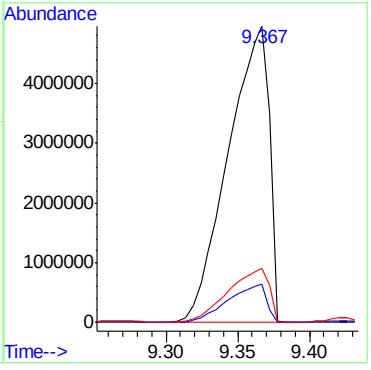
9

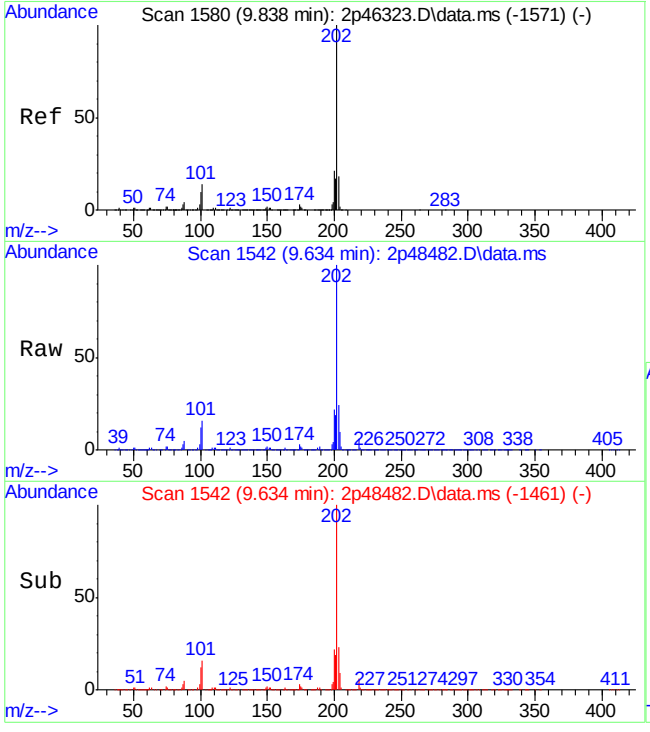


#81
Fluoranthene
Concen: 614.98 ppm
RT: 9.367 min Scan# 1492
Delta R.T. -0.064 min
Lab File: 2p48482.D
Acq: 11 May 2015 10:50 pm

Tgt Ion:202 Resp: 9873926

Ion	Ratio	Lower	Upper
202	100		
101	13.0	0.0	43.1
203	18.0	0.0	47.4

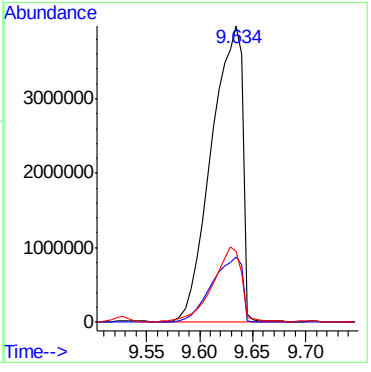


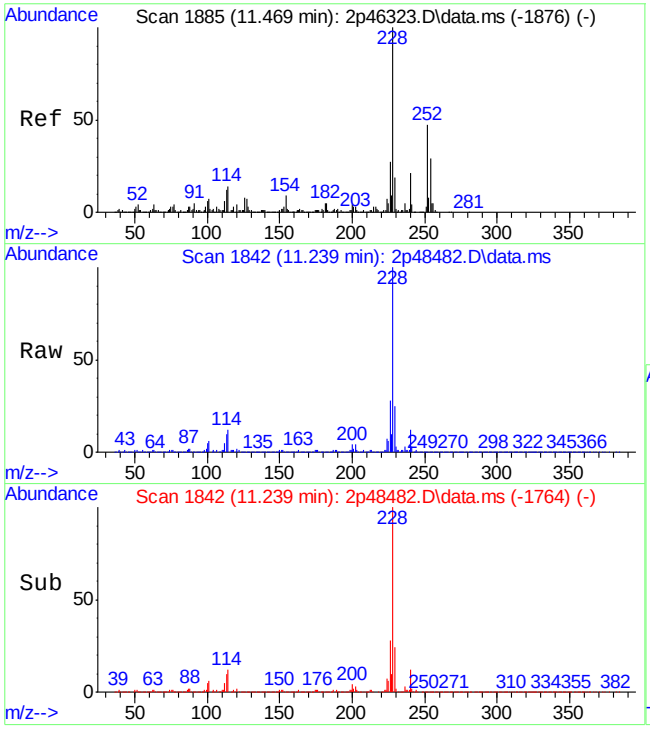


#84
Pyrene
Concen: 500.04 ppm
RT: 9.634 min Scan# 1542
Delta R.T. -0.064 min
Lab File: 2p48482.D
Acq: 11 May 2015 10:50 pm

Tgt Ion:202 Resp: 8190480

Ion	Ratio	Lower	Upper
202	100		
200	21.9	0.0	51.0
203	23.6	0.0	47.4

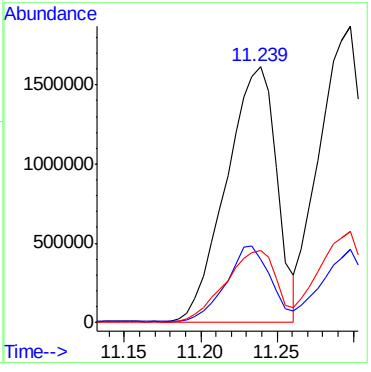


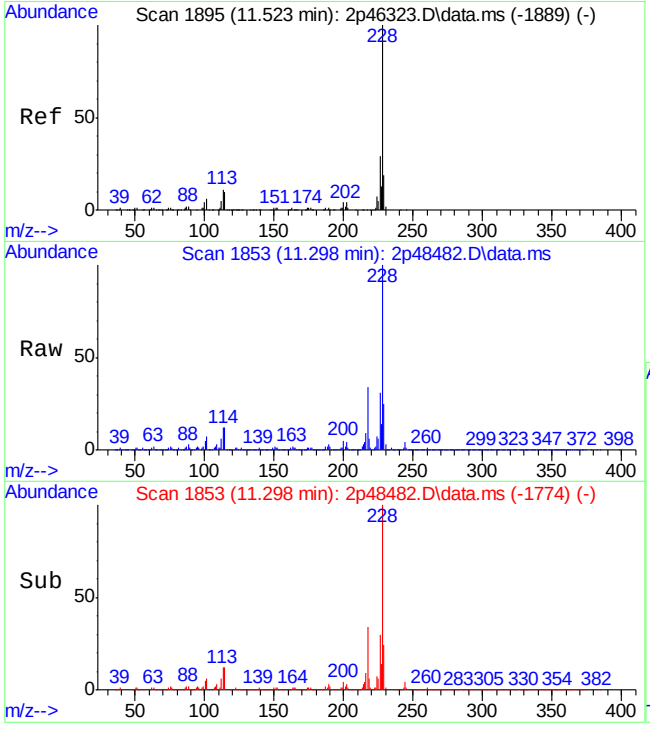


#88
Benzo[a]anthracene
Concen: 238.64 ppm
RT: 11.239 min Scan# 1842
Delta R.T. -0.080 min
Lab File: 2p48482.D
Acq: 11 May 2015 10:50 pm

Tgt Ion:228 Resp: 3697893

Ion	Ratio	Lower	Upper
228	100		
229	24.4	0.0	50.1
226	27.6	0.0	57.2

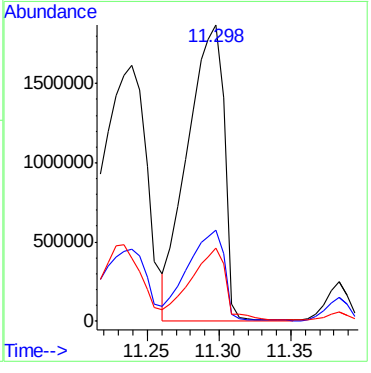


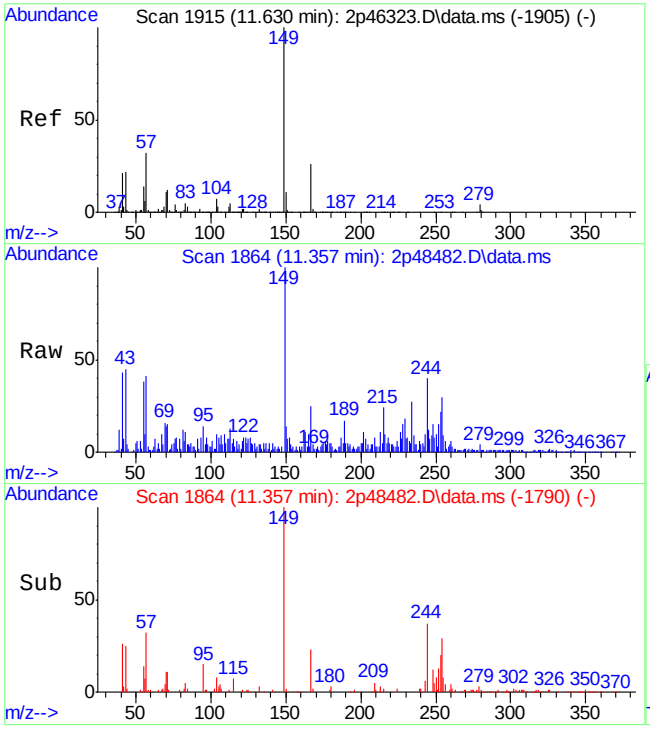


#90
Chrysene
Concen: 241.51 ppm
RT: 11.298 min Scan# 1853
Delta R.T. -0.075 min
Lab File: 2p48482.D
Acq: 11 May 2015 10:50 pm

Tgt Ion:228 Resp: 3341960

Ion	Ratio	Lower	Upper
228	100		
226	30.4	0.0	58.8
229	24.5	0.0	49.1

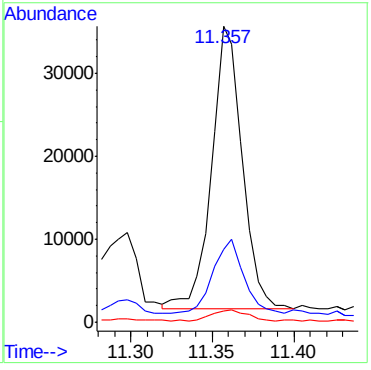


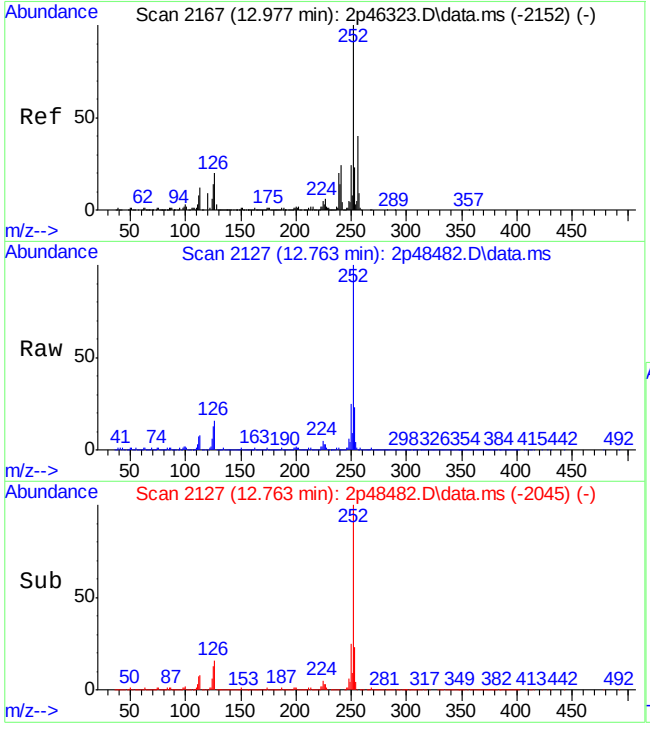


#91
bis(2-Ethylhexyl)phthalate
Concen: 5.09 ppm
RT: 11.357 min Scan# 1864
Delta R.T. -0.102 min
Lab File: 2p48482.D
Acq: 11 May 2015 10:50 pm

Tgt Ion:149 Resp: 44614

Ion	Ratio	Lower	Upper
149	100		
167	22.1	0.0	56.9
279	3.1	0.0	34.4

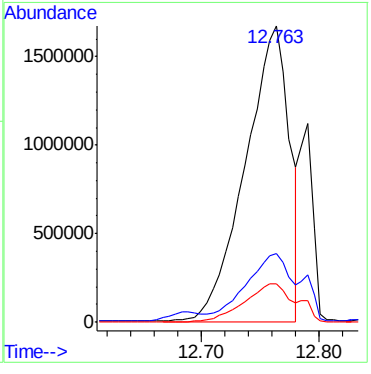


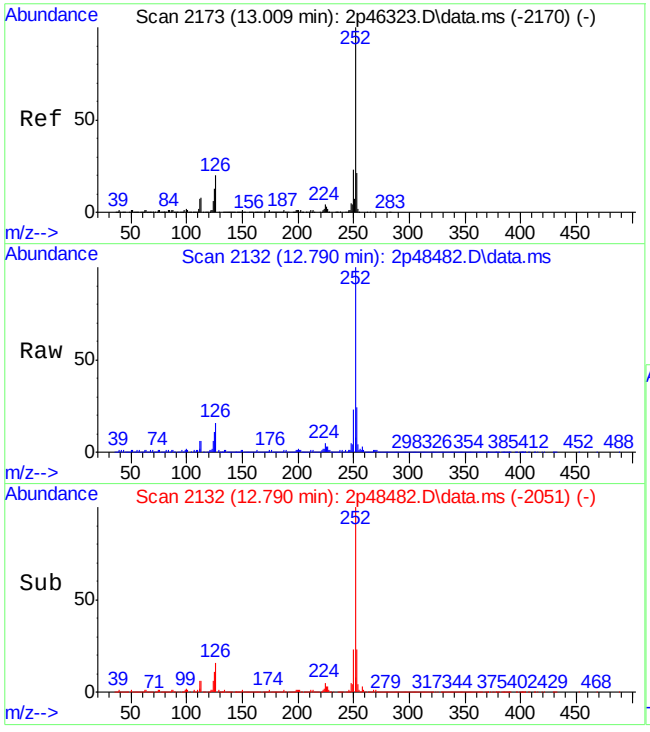


#94
Benzo[b]fluoranthene
Concen: 338.24 ppm m
RT: 12.763 min Scan# 2127
Delta R.T. -0.059 min
Lab File: 2p48482.D
Acq: 11 May 2015 10:50 pm

Tgt Ion:252 Resp: 4337817

Ion	Ratio	Lower	Upper
252	100		
253	23.2	0.0	52.1
125	13.1	0.0	42.9

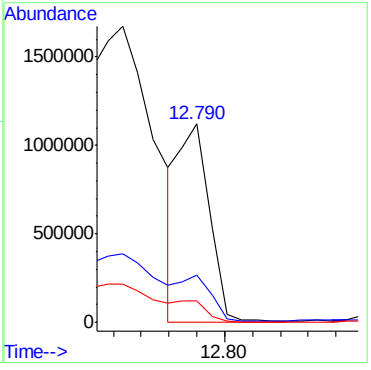


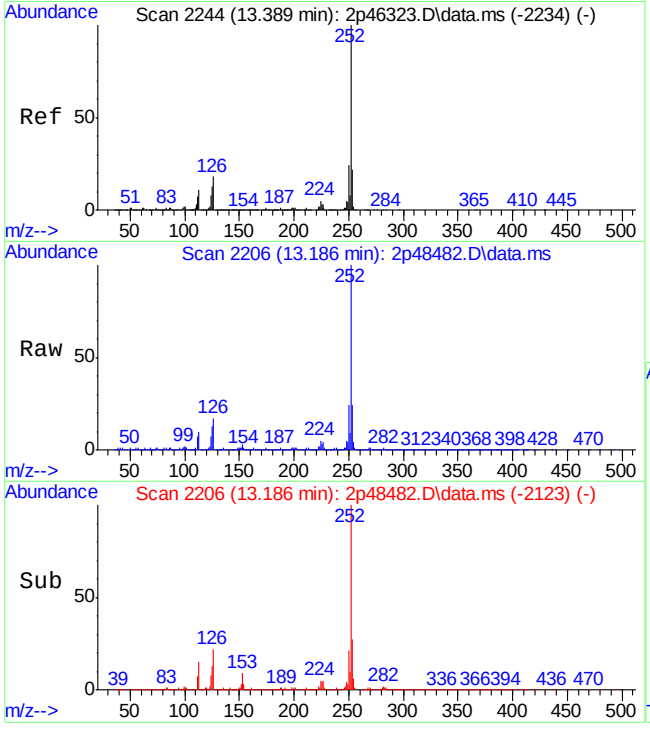


#95
Benzo[k]fluoranthene
Concen: 71.69 ppm m
RT: 12.790 min Scan# 2132
Delta R.T. -0.064 min
Lab File: 2p48482.D
Acq: 11 May 2015 10:50 pm

Tgt Ion:252 Resp: 870498

Ion	Ratio	Lower	Upper
252	100		
253	23.6	0.0	51.5
125	10.8	0.0	42.7

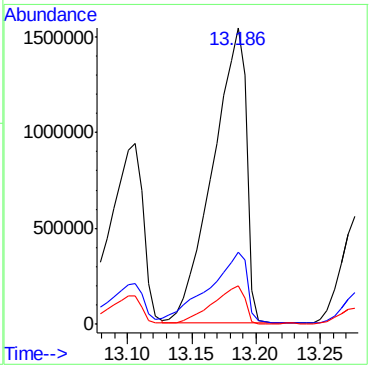


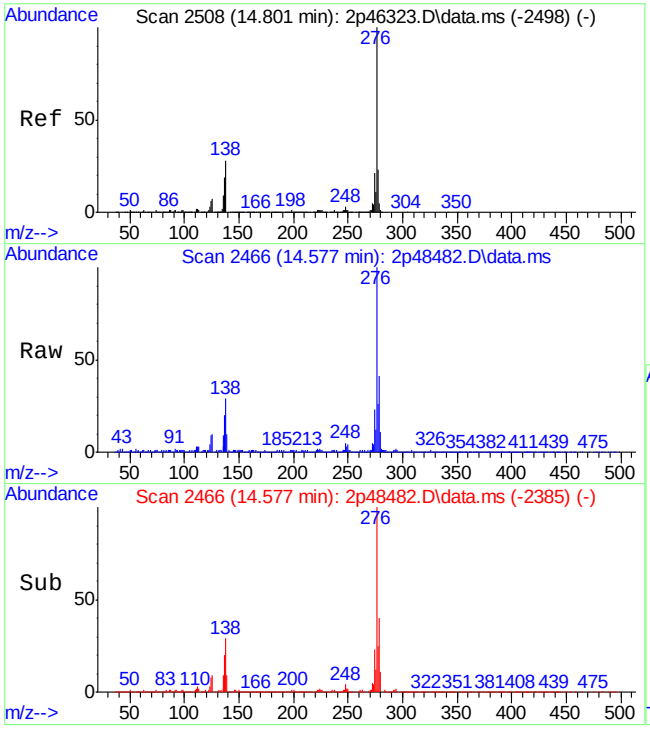


#96
Benzo[a]pyrene
Concen: 251.22 ppm
RT: 13.186 min Scan# 2206
Delta R.T. -0.053 min
Lab File: 2p48482.D
Acq: 11 May 2015 10:50 pm

Tgt Ion:252 Resp: 2785728

Ion	Ratio	Lower	Upper
252	100		
253	23.3	0.0	51.8
125	12.9	0.0	45.1

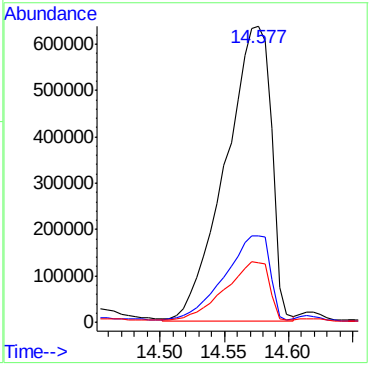


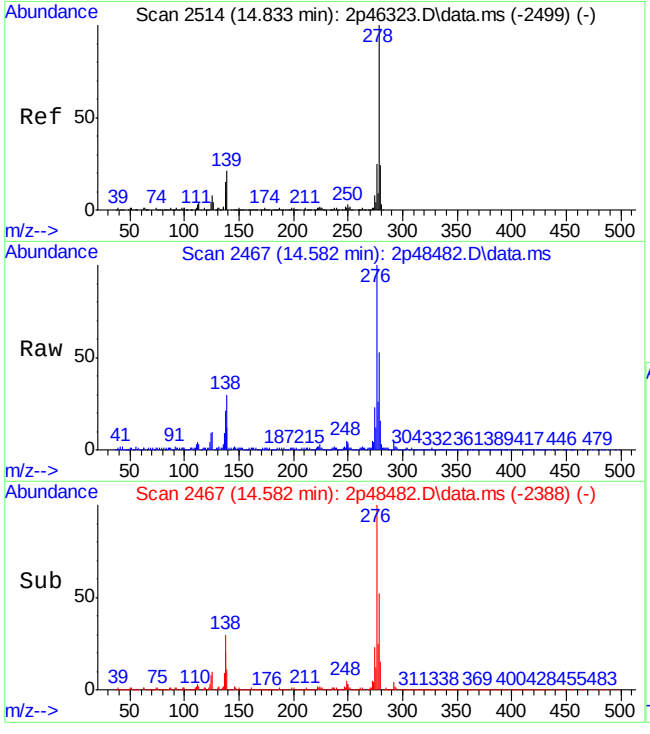


#97
Indeno[1,2,3-cd]pyrene
Concen: 124.36 ppm
RT: 14.577 min Scan# 2466
Delta R.T. -0.064 min
Lab File: 2p48482.D
Acq: 11 May 2015 10:50 pm

Tgt Ion:276 Resp: 1580467

Ion	Ratio	Lower	Upper
276	100		
138	28.7	1.0	61.0
137	19.8	0.0	52.7

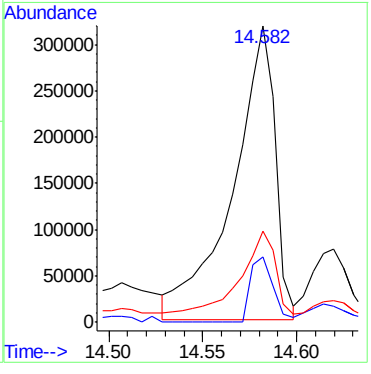




#99
Dibenz[a,h]anthracene
Concen: 48.16 ppm
RT: 14.582 min Scan# 2467
Delta R.T. -0.075 min
Lab File: 2p48482.D
Acq: 11 May 2015 10:50 pm

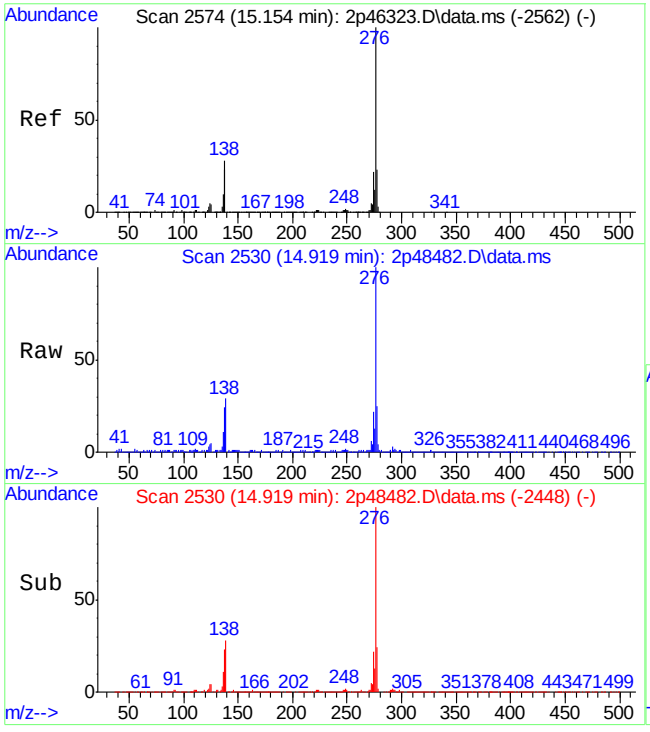
Tgt Ion:278 Resp: 497005

Ion	Ratio	Lower	Upper
278	100		
139	22.8	0.0	56.2
279	29.9	0.0	54.2



9.1.10

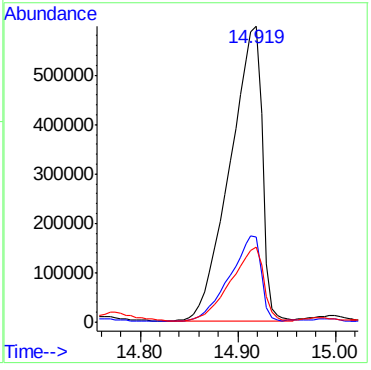
9

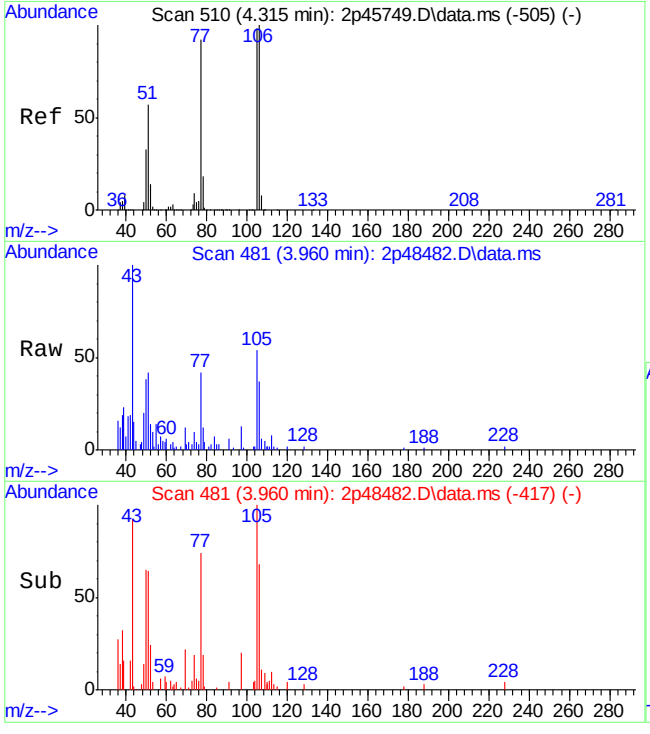


#101
Benzo[g,h,i]perylene
Concen: 130.78 ppm
RT: 14.919 min Scan# 2530
Delta R.T. -0.059 min
Lab File: 2p48482.D
Acq: 11 May 2015 10:50 pm

Tgt Ion:276 Resp: 1372077

Ion	Ratio	Lower	Upper
276	100		
138	28.6	3.5	63.5
277	24.9	0.0	53.3

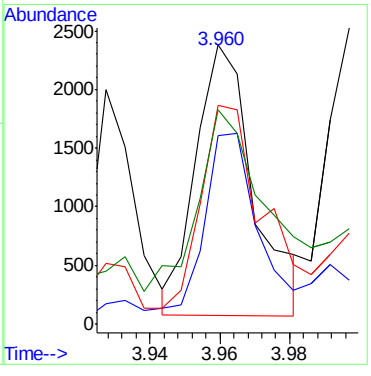




#103
Benzaldehyde
Concen: 0.86 ppm
RT: 3.960 min Scan# 481
Delta R.T. -0.155 min
Lab File: 2p48482.D
Acq: 11 May 2015 10:50 pm

Tgt Ion:105 Resp: 2671

Ion	Ratio	Lower	Upper
105	100		
106	72.1	64.7	124.7
77	79.6	62.5	122.5
51	62.2	26.1	86.1



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48482.D
Acq On : 11 May 2015 10:50 pm
Operator : sarad
Sample : jb94209-5
Misc : op83787,e2p2069,30.4
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: 2p48482.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.884	271	280	295	rVV	636854	547829	2.34%	0.258%
2	3.286	350	355	368	rBV	505745	578630	2.47%	0.273%
3	4.136	510	514	540	rVV	584673	755746	3.23%	0.357%
4	4.318	540	548	556	rVV	1578624	1067670	4.56%	0.504%
5	4.789	627	636	643	rBV	731024	642932	2.75%	0.303%
6	5.372	740	745	747	rVV	1819514	1327998	5.67%	0.627%
7	5.388	747	748	754	rVV	1443806	845877	3.61%	0.399%
8	5.960	850	855	861	rBV	673380	464460	1.98%	0.219%
9	6.040	865	870	883	rVB	489575	403546	1.72%	0.190%
10	6.265	906	912	920	rVB	1805568	1169202	4.99%	0.552%
11	6.538	959	963	965	rBV	376154	307499	1.31%	0.145%
12	6.693	988	992	1001	rBV2	494780	412057	1.76%	0.194%
13	6.810	1007	1014	1016	rBV	2201978	1535604	6.56%	0.724%
14	6.837	1016	1019	1024	rVB	2574412	1611371	6.88%	0.760%
15	6.982	1042	1046	1051	rBV	1452452	1095213	4.68%	0.517%
16	7.260	1088	1098	1104	rBV	2533668	1932669	8.25%	0.912%
17	7.329	1104	1111	1113	rBV2	310760	439591	1.88%	0.207%
18	7.393	1120	1123	1128	rVB	573245	393568	1.68%	0.186%
19	7.468	1130	1137	1141	rBV2	788519	1077034	4.60%	0.508%
20	7.714	1173	1183	1185	rBV	419239	446371	1.91%	0.211%
21	7.832	1202	1205	1213	rBV3	263575	461986	1.97%	0.218%
22	7.891	1213	1216	1220	rVB	748572	658660	2.81%	0.311%
23	7.928	1220	1223	1226	rBV	333582	322951	1.38%	0.152%
24	7.955	1226	1228	1239	rVB	963758	955224	4.08%	0.451%
25	8.099	1239	1255	1258	rBV	13558176	19608835	83.73%	9.251%
26	8.137	1258	1262	1265	rVB	4845729	3531605	15.08%	1.666%
27	8.308	1289	1294	1298	rBV	2010130	1738515	7.42%	0.820%
28	8.372	1303	1306	1314	rVB4	187459	309238	1.32%	0.146%
29	8.452	1314	1321	1326	rVB4	219821	333437	1.42%	0.157%
30	8.549	1335	1339	1342	rBV	1618105	1458026	6.23%	0.688%
31	8.581	1342	1345	1348	rVV	2262112	1783561	7.62%	0.841%
32	8.629	1348	1354	1356	rVV2	642024	674403	2.88%	0.318%
33	8.661	1356	1360	1363	rVV	3112241	3057828	13.06%	1.443%
34	8.688	1363	1365	1373	rVB	1198892	946346	4.04%	0.446%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48482.D
Acq On : 11 May 2015 10:50 pm
Operator : sarad
Sample : jb94209-5
Misc : op83787,e2p2069,30.4
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

35	8.795	1382	1385	1391	rVB3	241674	323173	1.38%	0.152%
36	8.864	1392	1398	1401	rVV	1210084	1112333	4.75%	0.525%
37	8.912	1401	1407	1411	rVV	912622	1167705	4.99%	0.551%
38	9.030	1423	1429	1433	rVB2	300317	361022	1.54%	0.170%
39	9.073	1433	1437	1439	rBV	292543	318472	1.36%	0.150%
40	9.158	1446	1453	1456	rBV	600994	800248	3.42%	0.378%
41	9.196	1456	1460	1463	rVV	419217	571018	2.44%	0.269%
42	9.271	1467	1474	1480	rVB5	585476	1084845	4.63%	0.512%
43	9.367	1480	1492	1496	rBV	12078353	23419978	100.00%	11.049%
44	9.421	1496	1502	1505	rBV3	274960	465163	1.99%	0.219%
45	9.506	1512	1518	1521	rBV	451959	545227	2.33%	0.257%
46	9.629	1529	1541	1547	rVV2	11518969	22164044	94.64%	10.457%
47	9.677	1547	1550	1560	rVB	522750	792738	3.38%	0.374%
48	9.768	1560	1567	1570	rBV	867518	941090	4.02%	0.444%
49	9.816	1570	1576	1582	rVB2	1387001	1899808	8.11%	0.896%
50	9.870	1582	1586	1588	rBV	334147	340611	1.45%	0.161%
51	9.897	1588	1591	1597	rVB	667838	845558	3.61%	0.399%
52	10.009	1604	1612	1614	rBV7	599047	1139652	4.87%	0.538%
53	10.041	1614	1618	1621	rVB	1616739	1788409	7.64%	0.844%
54	10.121	1629	1633	1637	rVB	1055315	1185051	5.06%	0.559%
55	10.169	1637	1642	1649	rBV4	1398661	2254272	9.63%	1.064%
56	10.282	1659	1663	1667	rVB	618762	660559	2.82%	0.312%
57	10.324	1667	1671	1676	rBV	514926	670767	2.86%	0.316%
58	10.565	1709	1716	1717	rBV5	201853	321758	1.37%	0.152%
59	10.597	1718	1722	1727	rVB3	186263	316636	1.35%	0.149%
60	10.688	1734	1739	1742	rBV3	245603	361444	1.54%	0.171%
61	10.731	1742	1747	1754	rVB	927756	1235622	5.28%	0.583%
62	10.865	1766	1772	1774	rBV	906847	1168073	4.99%	0.551%
63	10.902	1774	1779	1782	rVV2	926282	1338024	5.71%	0.631%
64	10.934	1782	1785	1788	rVV	697671	639384	2.73%	0.302%
65	10.966	1788	1791	1799	rVB2	683517	874844	3.74%	0.413%
66	11.046	1799	1806	1810	rBV	792547	1177130	5.03%	0.555%
67	11.105	1814	1817	1823	rVB	255994	361187	1.54%	0.170%
68	11.239	1824	1842	1846	rBV3	4904443	11984053	51.17%	5.654%
69	11.298	1846	1853	1862	rVB	6783221	10761699	45.95%	5.077%
70	11.383	1862	1869	1876	rVB	952139	1110389	4.74%	0.524%
71	11.544	1893	1899	1904	rVB2	565519	983364	4.20%	0.464%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48482.D
Acq On : 11 May 2015 10:50 pm
Operator : sarad
Sample : jb94209-5
Misc : op83787,e2p2069,30.4
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

72	11.608	1904	1911	1915	rVB	663727	930606	3.97%	0.439%
73	11.817	1942	1950	1954	rBV2	1182048	1831173	7.82%	0.864%
74	11.859	1954	1958	1962	rVB	585655	713089	3.04%	0.336%
75	11.945	1969	1974	1978	rBV4	387196	520636	2.22%	0.246%
76	11.983	1978	1981	1985	rVV2	313731	493116	2.11%	0.233%
77	12.116	1998	2006	2015	rVB4	304082	632166	2.70%	0.298%
78	12.303	2035	2041	2047	rBV2	263528	464881	1.98%	0.219%
79	12.533	2074	2084	2090	rBV3	522644	947701	4.05%	0.447%
80	12.763	2107	2127	2137	rVB2	4707171	15425482	65.86%	7.278%
81	12.870	2137	2147	2154	rBV3	1082626	1658775	7.08%	0.783%
82	13.025	2163	2176	2181	rBV4	326195	1389330	5.93%	0.655%
83	13.106	2181	2191	2195	rVB	2637238	4686445	20.01%	2.211%
84	13.186	2195	2206	2210	rVB	4377306	8172679	34.90%	3.856%
85	13.239	2210	2216	2219	rBV	986933	1366048	5.83%	0.644%
86	13.277	2219	2223	2226	rVB	1554419	1644418	7.02%	0.776%
87	13.443	2245	2254	2258	rBV4	237380	567782	2.42%	0.268%
88	13.485	2258	2262	2269	rVB4	276873	509228	2.17%	0.240%
89	13.785	2312	2318	2329	rVB3	309985	680221	2.90%	0.321%
90	14.191	2389	2394	2398	rBV4	193891	324526	1.39%	0.153%
91	14.266	2398	2408	2413	rBV5	245211	648450	2.77%	0.306%
92	14.411	2428	2435	2441	rBV4	516039	1110842	4.74%	0.524%
93	14.582	2449	2467	2471	rVV2	2606966	5920651	25.28%	2.793%
94	14.689	2479	2487	2491	rBV	503006	903490	3.86%	0.426%
95	14.732	2491	2495	2509	rVB	731604	1480653	6.32%	0.699%
96	14.919	2518	2530	2535	rVV	1832533	4363764	18.63%	2.059%
97	15.074	2549	2559	2564	rVV2	552782	1157610	4.94%	0.546%
98	15.486	2630	2636	2649	rVB4	146659	413470	1.77%	0.195%
99	15.780	2678	2691	2712	rVB8	155142	845348	3.61%	0.399%
100	16.604	2828	2845	2852	rBV2	468028	1774170	7.58%	0.837%

Sum of corrected areas: 211957582

LSC Report - Integrated Chromatogram

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48482.D
Acq On    : 11 May 2015  10:50 pm
Operator  : sarad
Sample    : jb94209-5
Misc      : op83787,e2p2069,30.4
ALS Vial  : 16   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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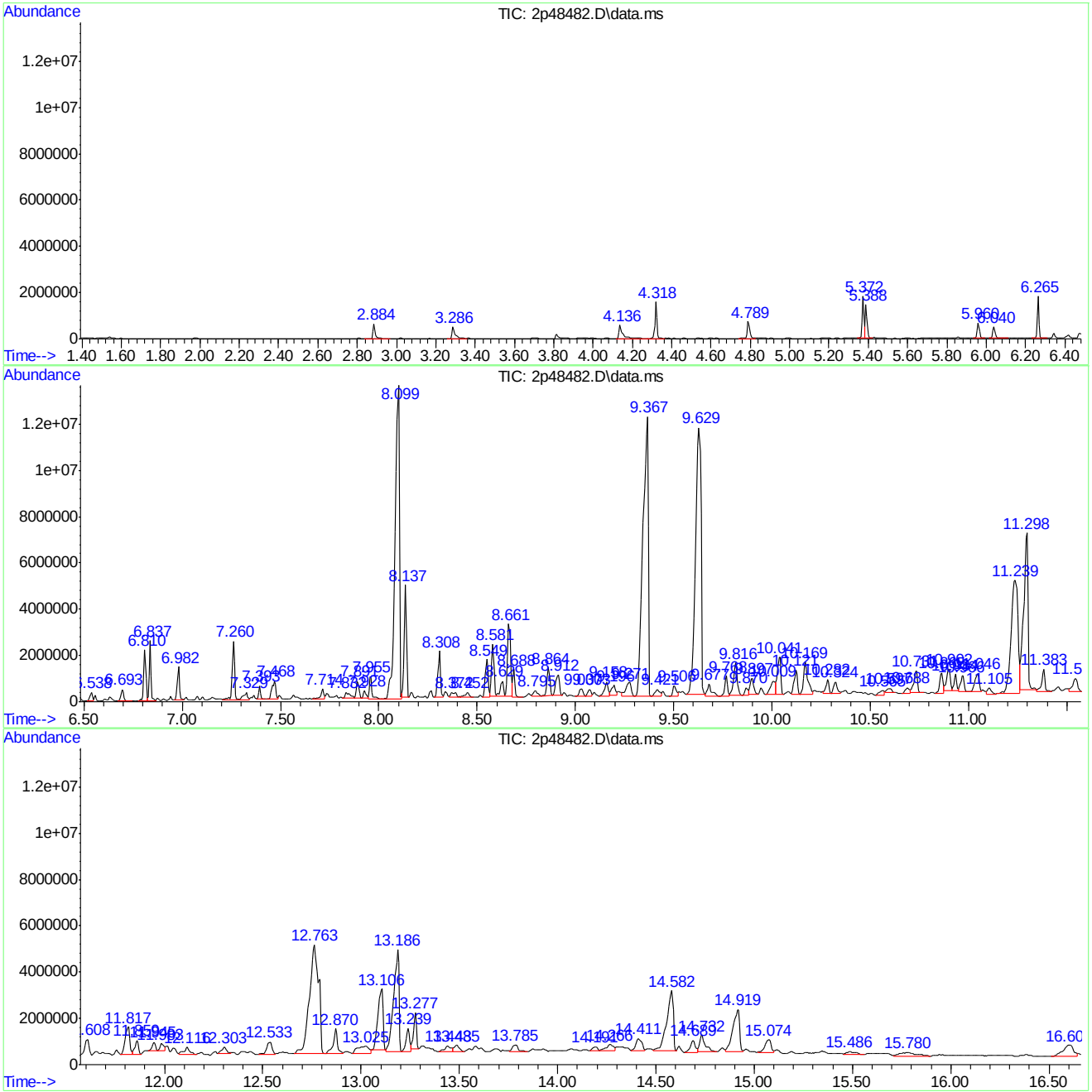


Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48482.D
Acq On : 11 May 2015 10:50 pm
Operator : sarad
Sample : jb94209-5
Misc : op83787,e2p2069,30.4
ALS Vial : 16 Sample Multiplier: 1

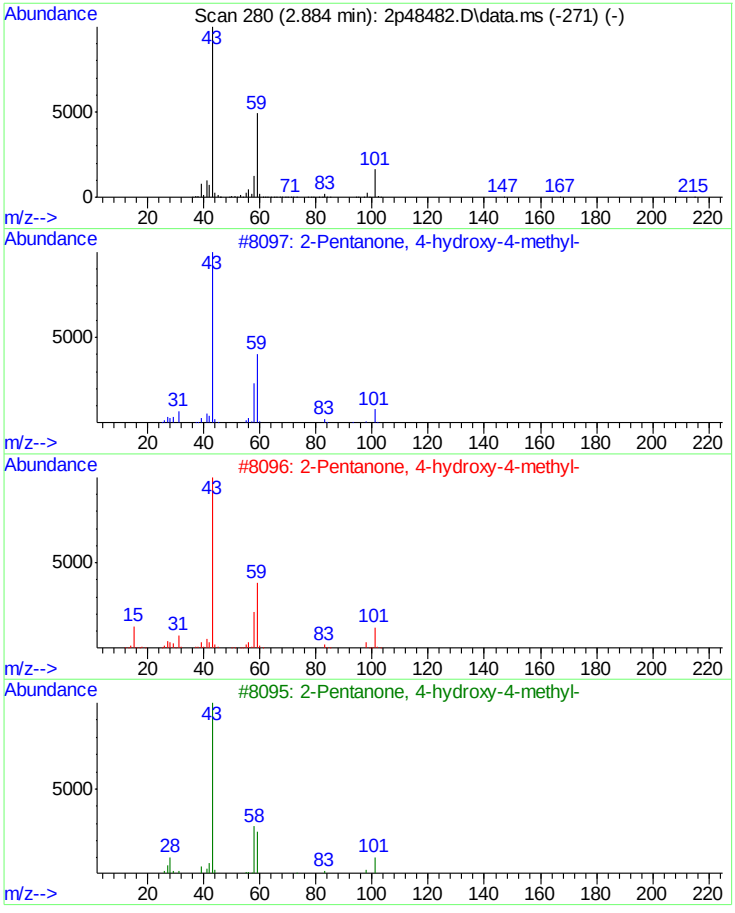
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

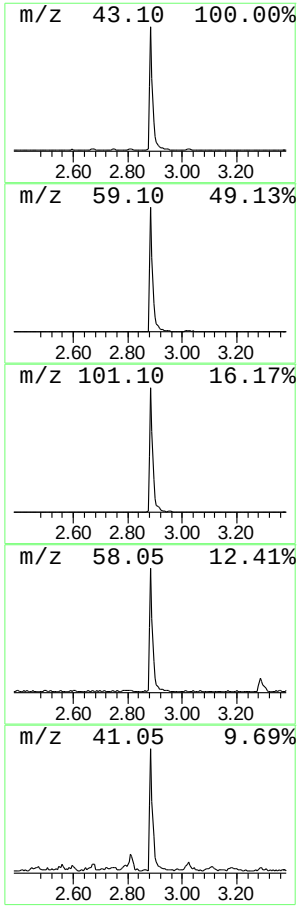
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 1 system artifact/aldol-conde... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.884	20.52 ppm	547829	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	23
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
5	Butane	58	C4H10	000106-97-8	9





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48482.D
Acq On    : 11 May 2015  10:50 pm
Operator  : sarad
Sample    : jb94209-5
Misc      : op83787,e2p2069,30.4
ALS Vial  : 16   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

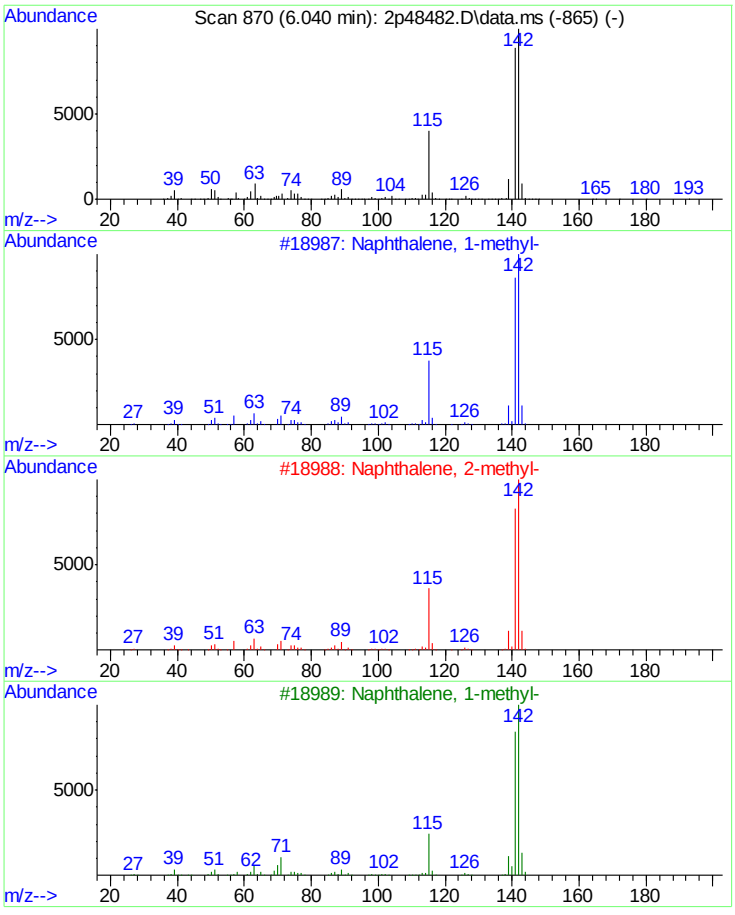
TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

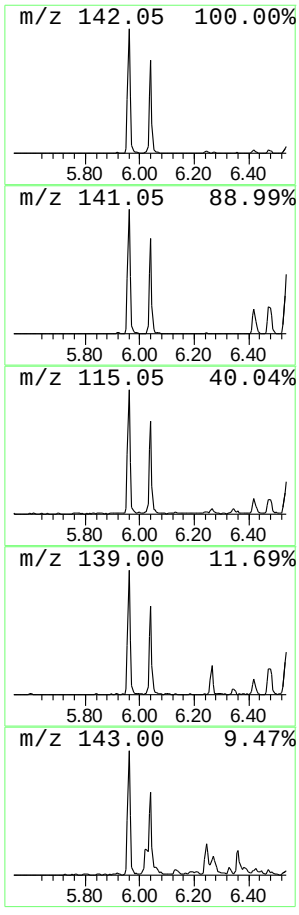
****

Peak Number 2 Naphthalene, 1-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.040	12.15 ppm	403546	Naphthalene-d8a	5.372

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	97
2	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	97
3	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	95
4	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	94
5	Benzocycloheptatriene	142	C11H10	000264-09-5	91





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48482.D
Acq On : 11 May 2015 10:50 pm
Operator : sarad
Sample : jb94209-5
Misc : op83787,e2p2069,30.4
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

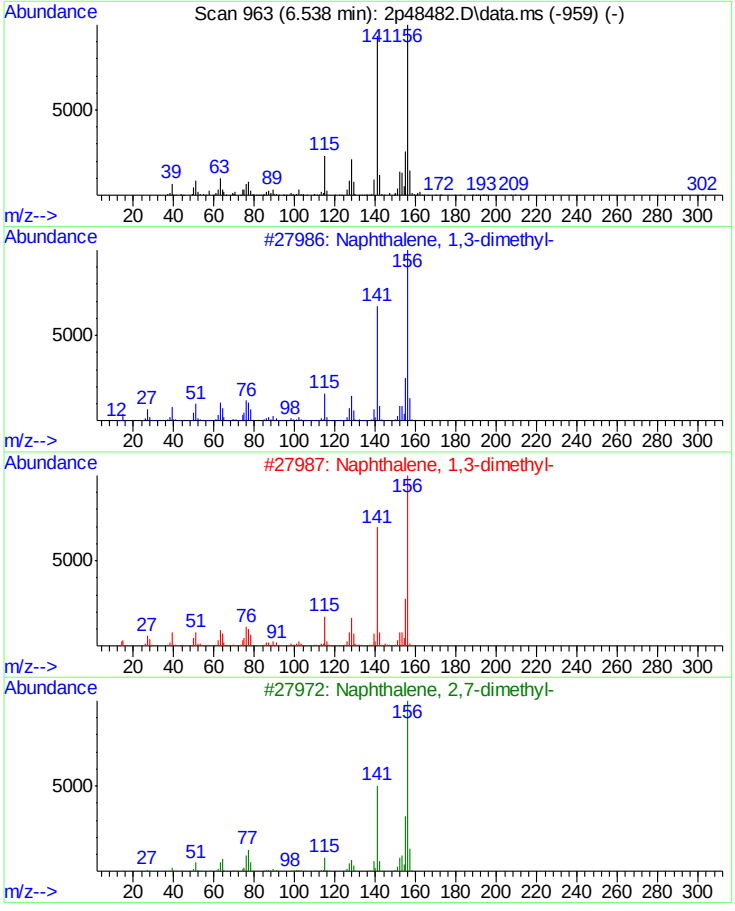
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

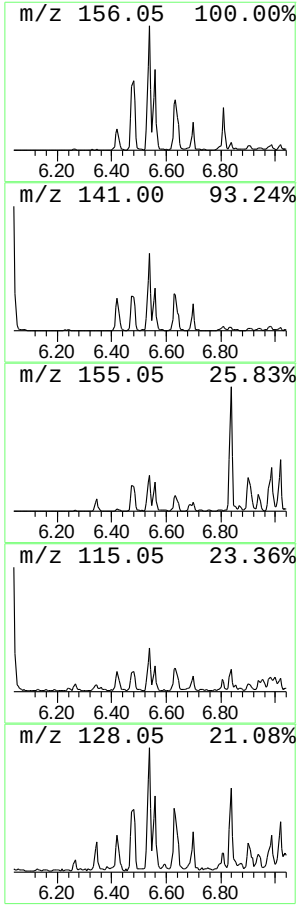
****

Peak Number 3 Naphthalene dimethyl Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.538	8.01 ppm	307499	Acenaphthene-d10	6.810

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
2	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
3	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	95
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	95
5	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	95





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48482.D
Acq On : 11 May 2015 10:50 pm
Operator : sarad
Sample : jb94209-5
Misc : op83787,e2p2069,30.4
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

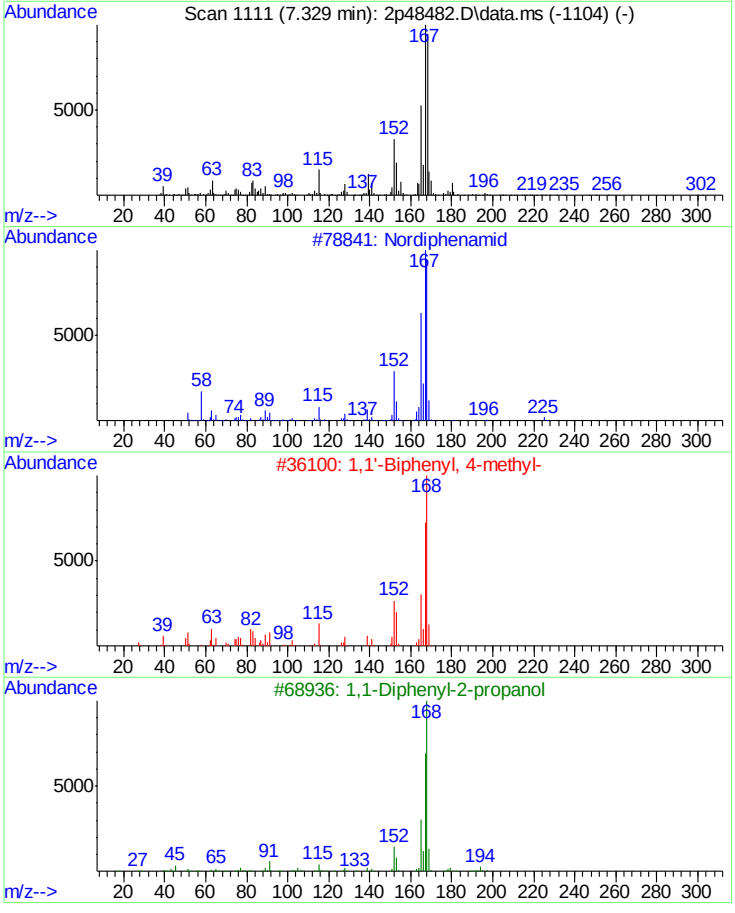
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

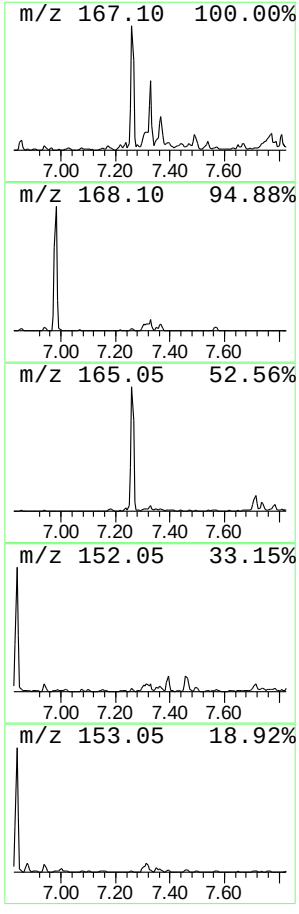
****

Peak Number 4 unknown Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.329	11.45 ppm	439591	Acenaphthene-d10a	6.810

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nordiphenamid	225	C15H15NO	000954-21-2	91
2	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	90
3	1,1-Diphenyl-2-propanol	212	C15H16O	029338-49-6	90
4	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	89
5	Diphenylmethane	168	C13H12	000101-81-5	89





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48482.D
Acq On : 11 May 2015 10:50 pm
Operator : sarad
Sample : jb94209-5
Misc : op83787,e2p2069,30.4
ALS Vial : 16 Sample Multiplier: 1

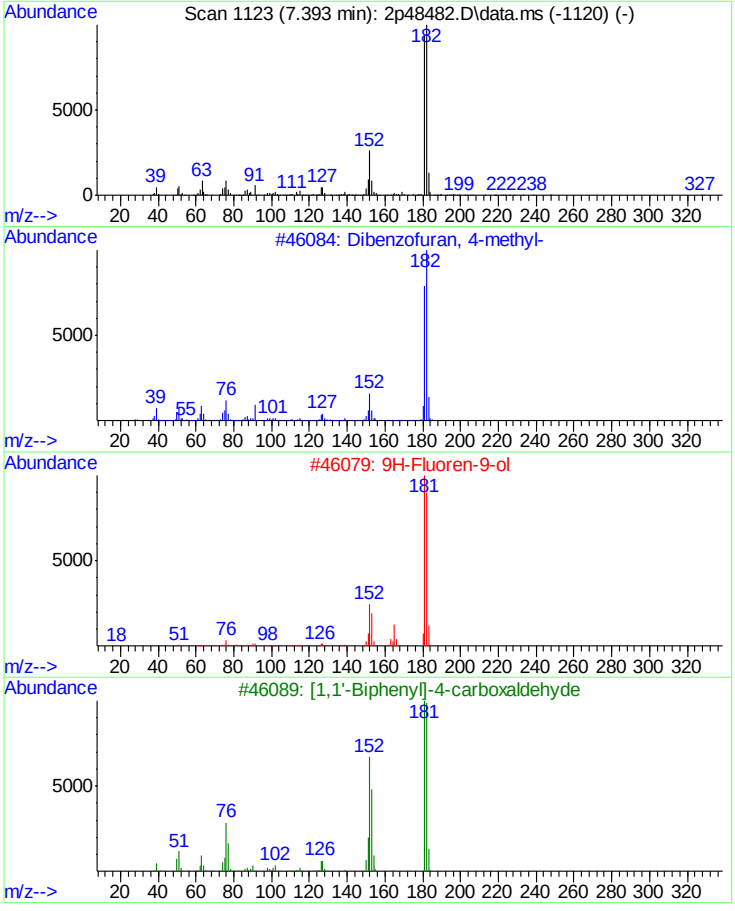
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

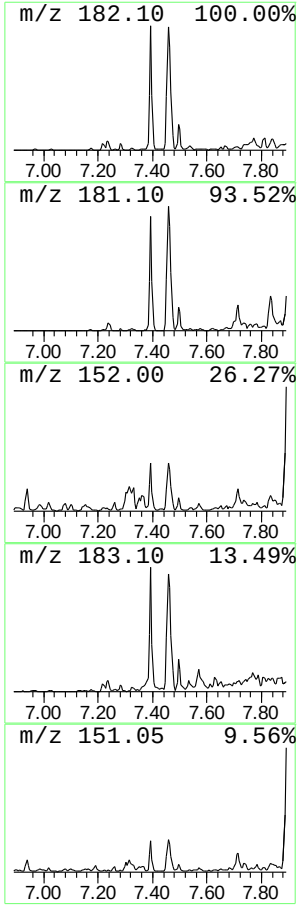
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 5 unknown Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.393	10.25 ppm	393568	Acenaphthene-d10a	6.810

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	86
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	83
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	78
4	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	68
5	2-Hydroxyfluorene	182	C13H10O	002443-58-5	64





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48482.D
Acq On    : 11 May 2015  10:50 pm
Operator  : sarad
Sample    : jb94209-5
Misc      : op83787,e2p2069,30.4
ALS Vial  : 16   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```
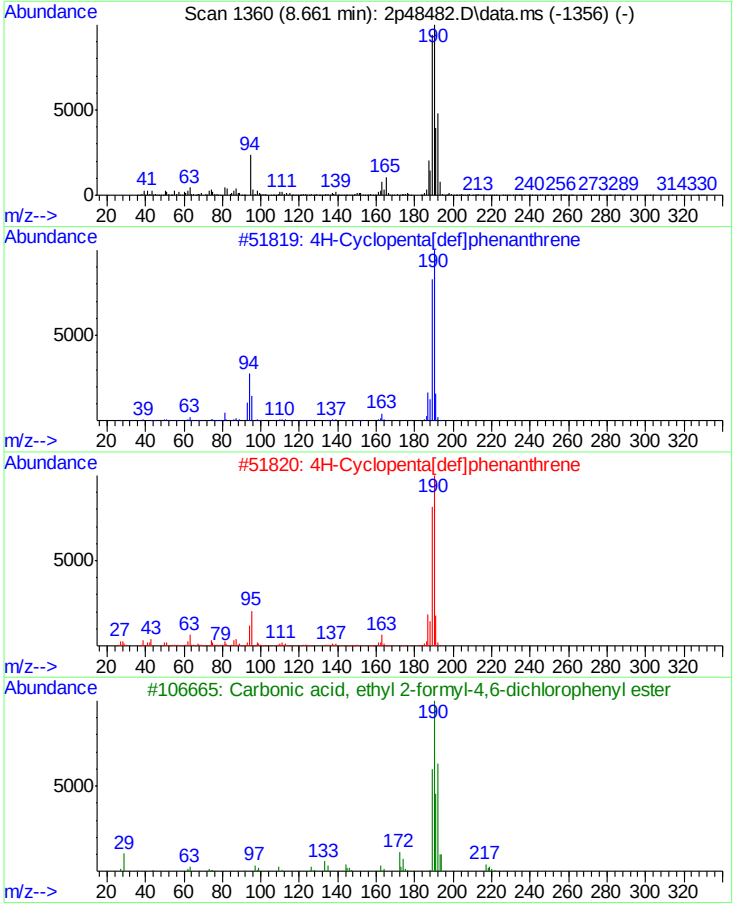
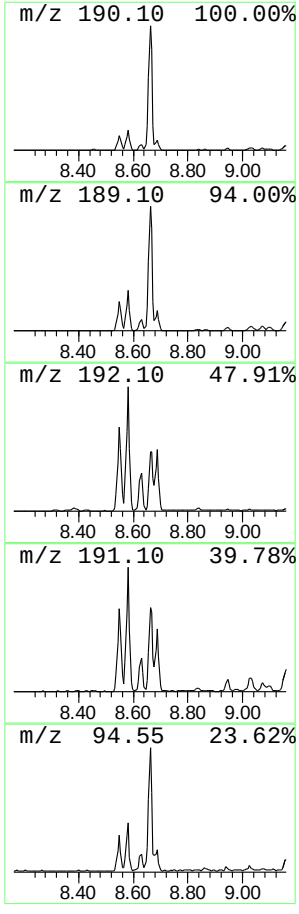

****

Peak Number 6 unknown Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.661	6.24 ppm	3057830	Phenanthrene-d10	8.062

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
3	Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	50
4	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	47
5	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	40





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48482.D
Acq On : 11 May 2015 10:50 pm
Operator : sarad
Sample : jb94209-5
Misc : op83787,e2p2069,30.4
ALS Vial : 16 Sample Multiplier: 1

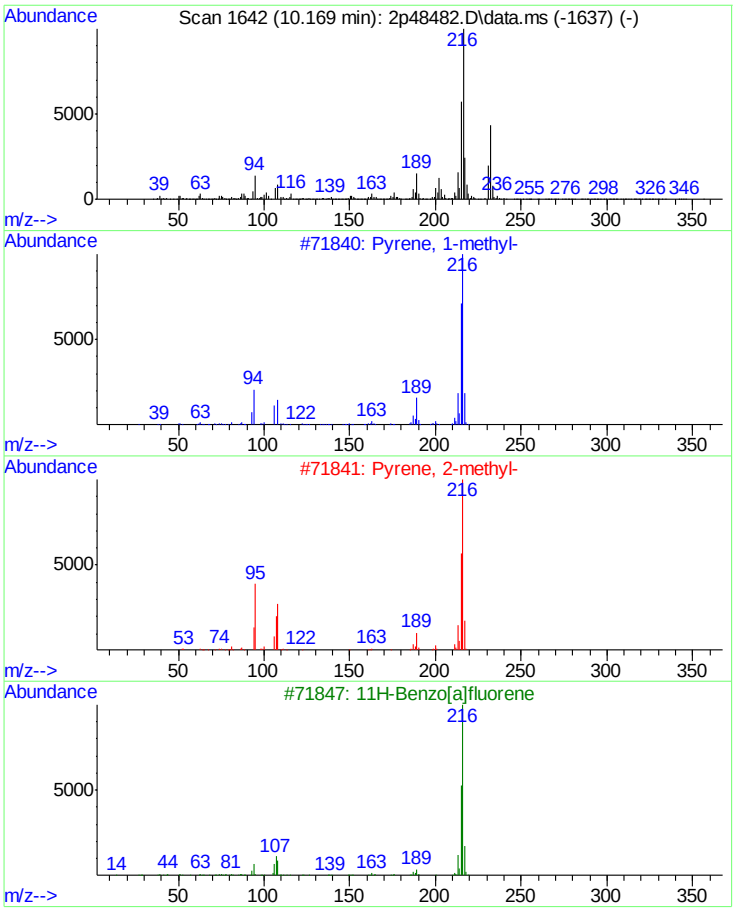
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

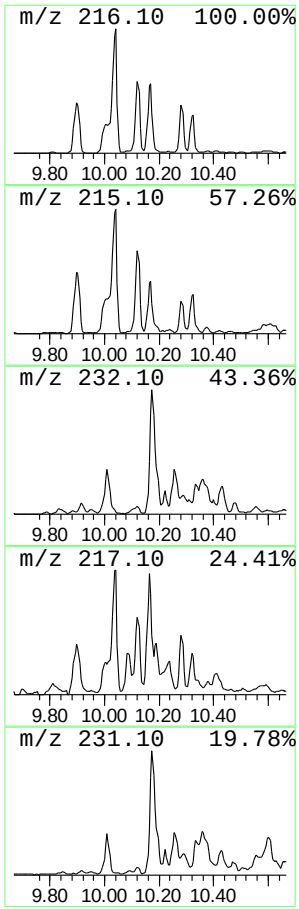
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 7 Pyrene methyl Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.169	7.52 ppm	2254270	Chrysene-d12	11.250

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	91
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	64
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	64
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	60





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48482.D
Acq On : 11 May 2015 10:50 pm
Operator : sarad
Sample : jb94209-5
Misc : op83787,e2p2069,30.4
ALS Vial : 16 Sample Multiplier: 1

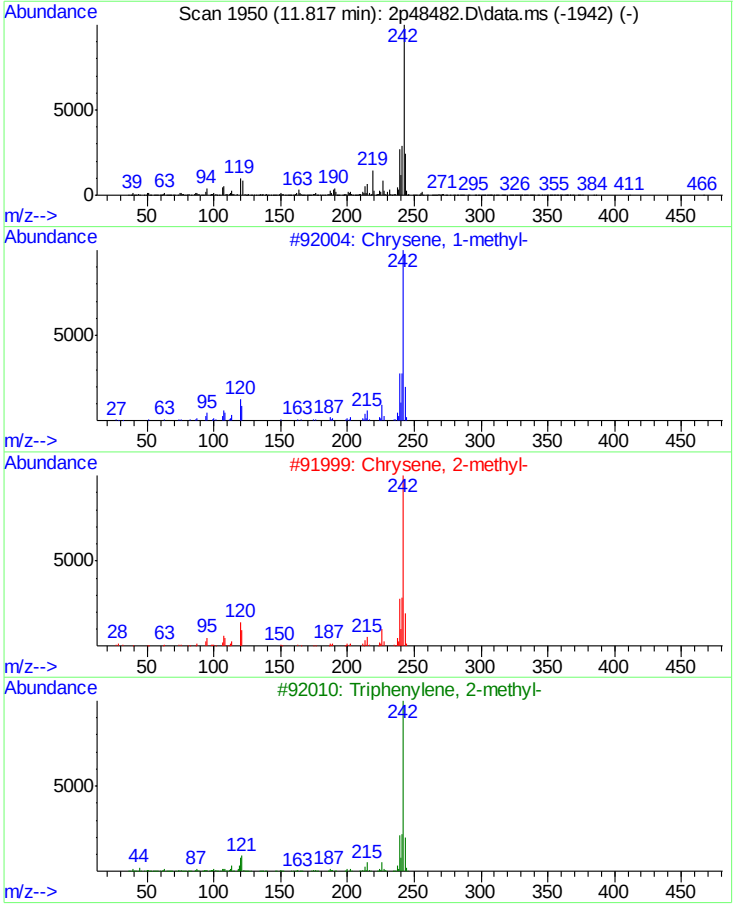
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

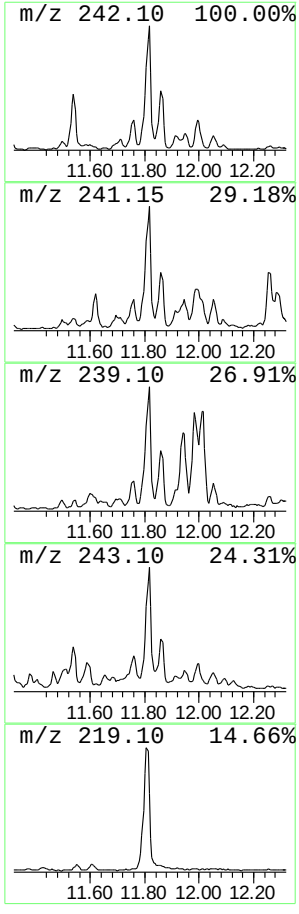
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 8 Chrysene methyl Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.817	6.11 ppm	1831170	Chrysene-d12a	11.250

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chrysene, 1-methyl-	242	C19H14	003351-28-8	98
2	Chrysene, 2-methyl-	242	C19H14	003351-32-4	96
3	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	96
4	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	95
5	Benzo[c]phenanthrene, 5-methyl-	242	C19H14	000652-04-0	90





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48482.D
Acq On    : 11 May 2015  10:50 pm
Operator  : sarad
Sample    : jb94209-5
Misc      : op83787,e2p2069,30.4
ALS Vial  : 16   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

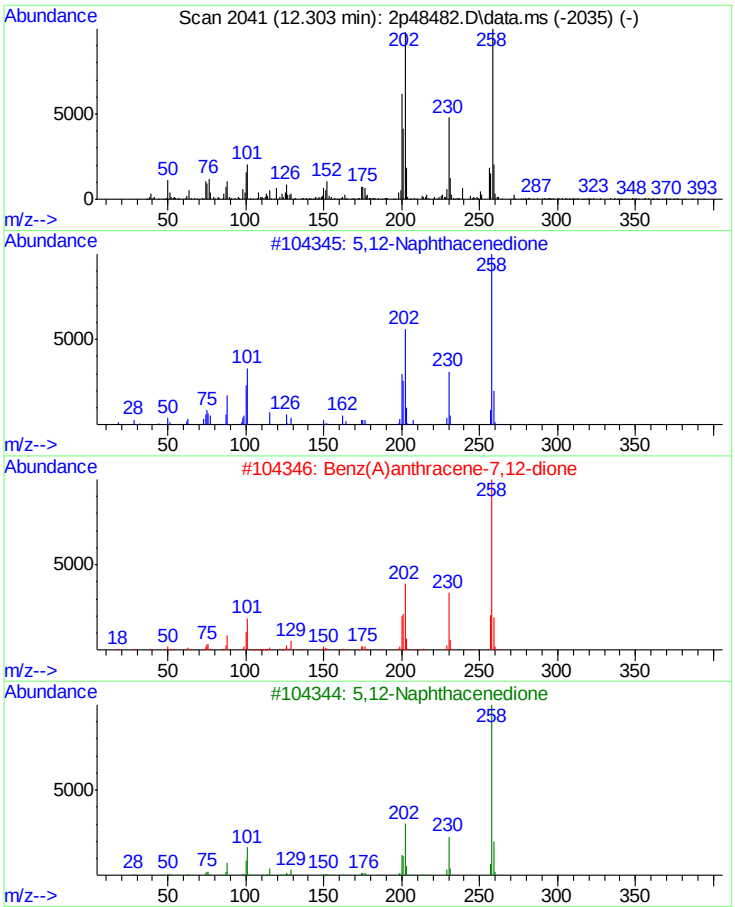
TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

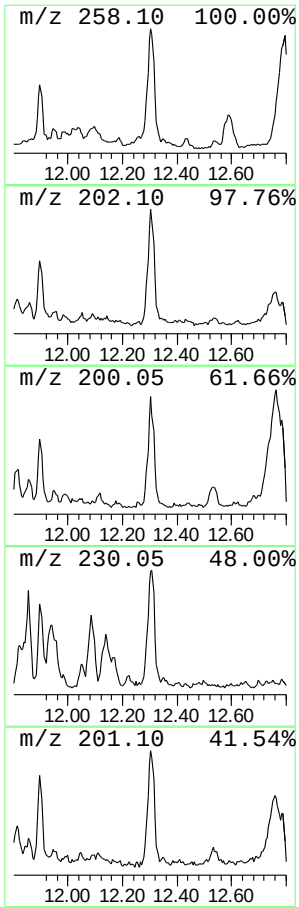
****

Peak Number 9 unknown Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.303	13.61 ppm	464881	Perylene-d12	13.239

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,12-Naphthacenedione	258	C18H10O2	001090-13-7	95
2	Benz(A)anthracene-7,12-dione	258	C18H10O2	002498-66-0	93
3	5,12-Naphthacenedione	258	C18H10O2	001090-13-7	91
4	Piperazine, 1-methyl-4-(1,2,3,4-...	258	C17H26N2	055591-14-5	90
5	Benz(A)anthracene-7,12-dione	258	C18H10O2	002498-66-0	86





Library Search Compound Report

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Data File : 2p48482.D
Acq On    : 11 May 2015  10:50 pm
Operator  : sarad
Sample    : jb94209-5
Misc      : op83787,e2p2069,30.4
ALS Vial  : 16   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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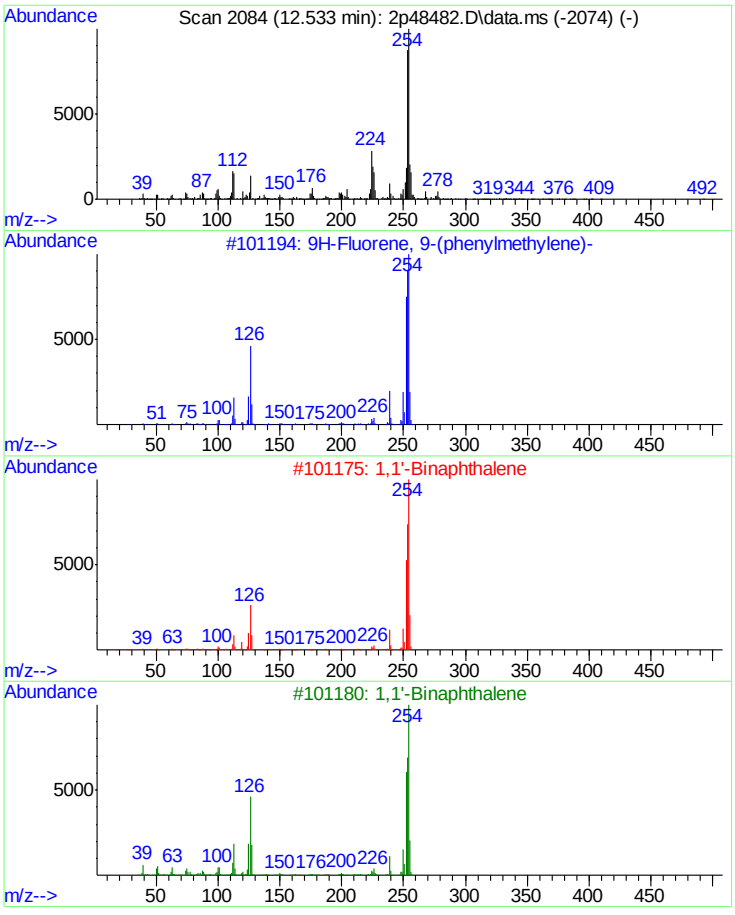
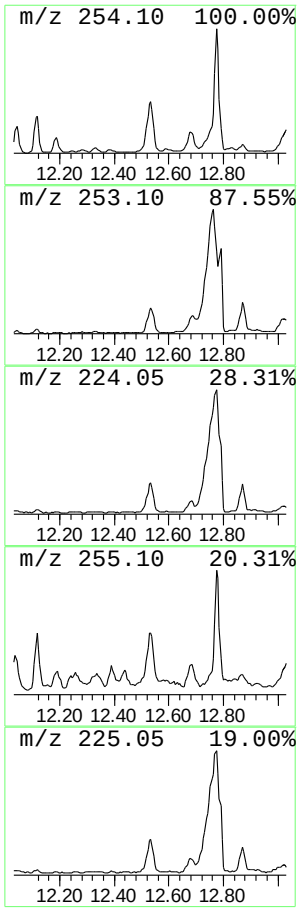
Peak Number 10 unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.533	27.75 ppm	947701	Perylene-d12	13.239

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	81
2	1,1'-Binaphthalene	254	C20H14	000604-53-5	81
3	1,1'-Binaphthalene	254	C20H14	000604-53-5	76
4	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	76
5	Anthracene, 9-phenyl-	254	C20H14	000602-55-1	74





Library Search Compound Report

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Sample    : jb94209-5
Misc      : op83787,e2p2069,30.4
ALS Vial  : 16   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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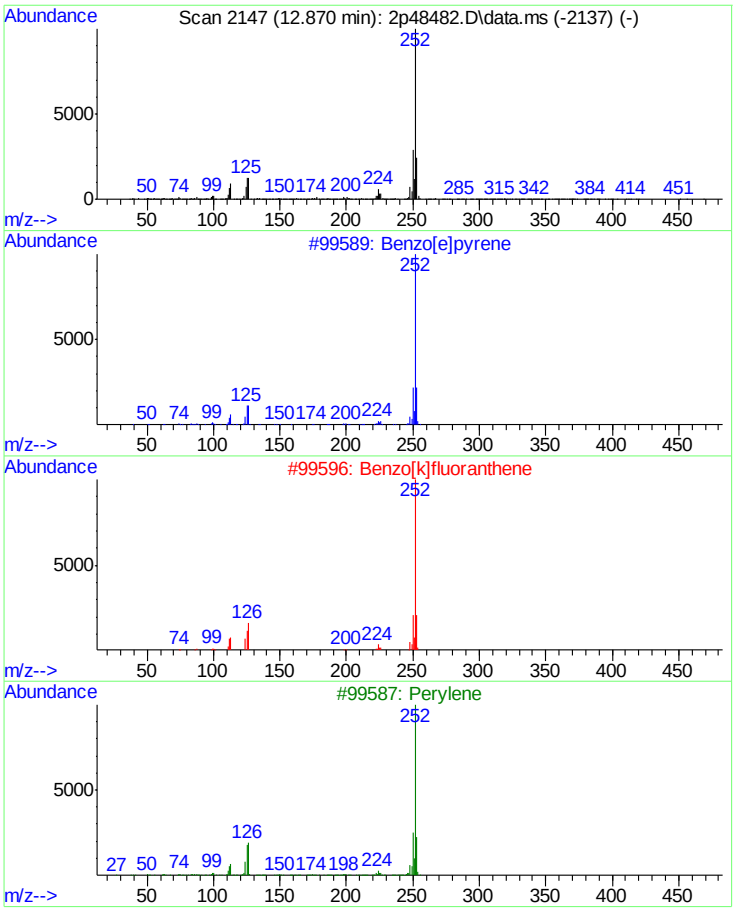
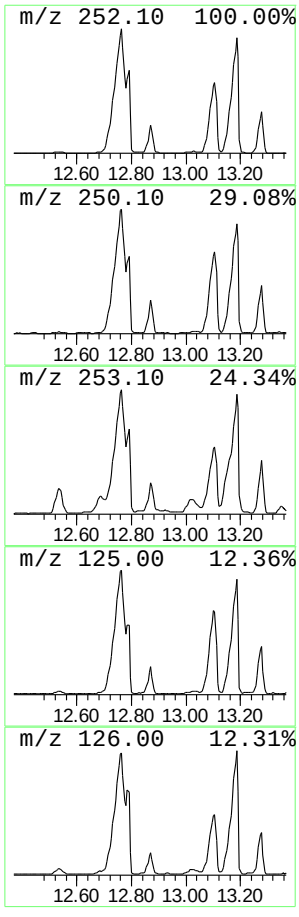
Peak Number 11 unknown PAH substance Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.870	48.57 ppm	1658780	Perylene-d12	13.239

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	98
3	Perylene	252	C20H12	000198-55-0	95
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93





Library Search Compound Report

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Acq On : 11 May 2015 10:50 pm
Operator : sarad
Sample : jb94209-5
Misc : op83787,e2p2069,30.4
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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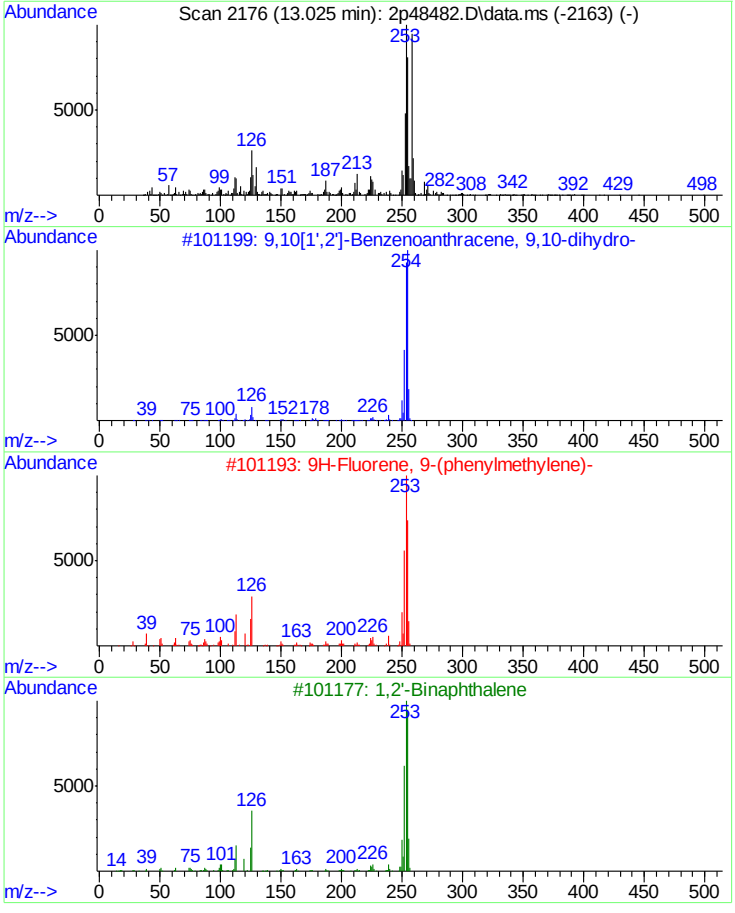
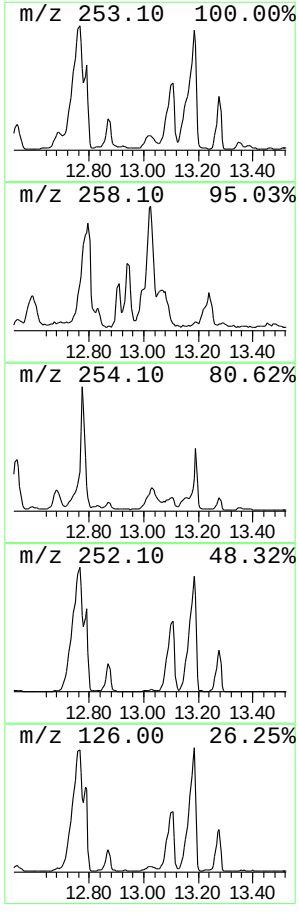
Peak Number 12 unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.025	40.68 ppm	1389330	Perylene-d12	13.239

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	70
2	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	70
3	1,2'-Binaphthalene	254	C20H14	004325-74-0	56
4	1,1'-Binaphthalene	254	C20H14	000604-53-5	55
5	6,6'-Biazulene,	254	C20H14	073393-11-0	51





Library Search Compound Report

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Operator  : sarad
Sample    : jb94209-5
Misc      : op83787,e2p2069,30.4
ALS Vial  : 16   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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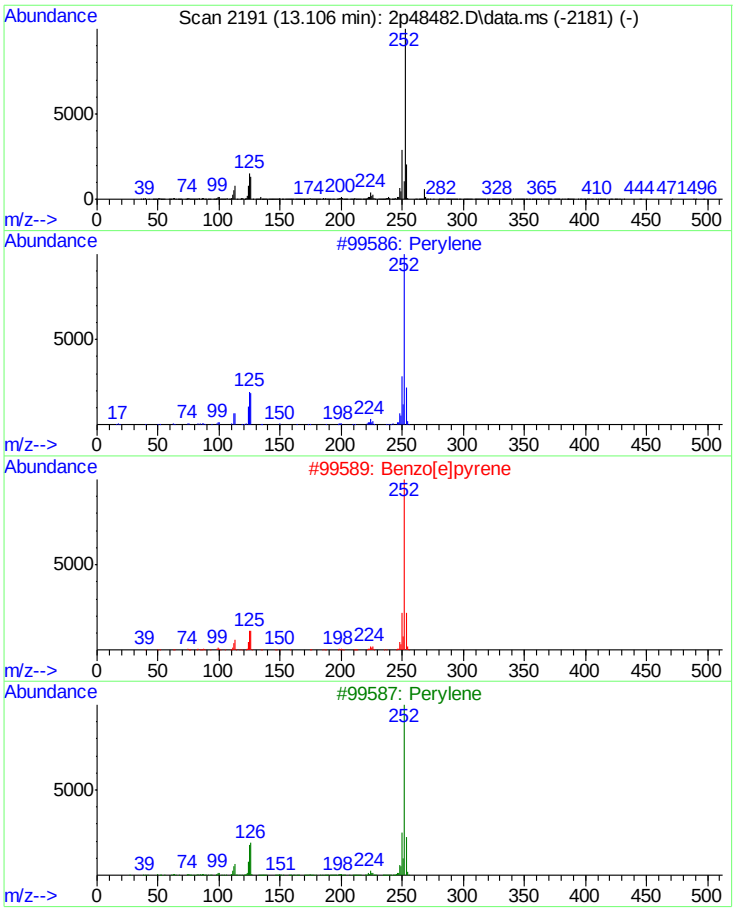
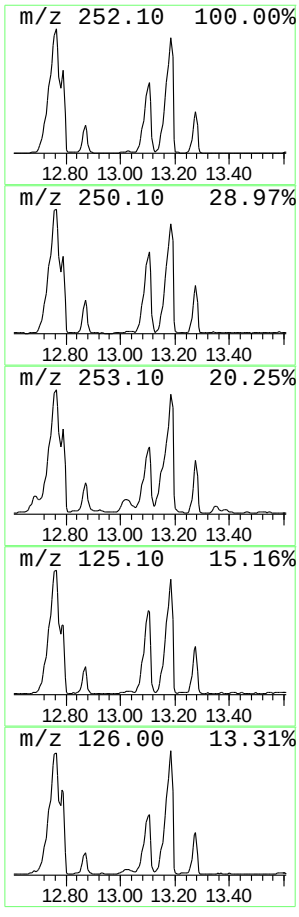
Peak Number 13 unknown PAH substance Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.106	137.23 ppm	4686450	Perylene-d12	13.239

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	94
2	Benzo[e]pyrene	252	C20H12	000192-97-2	94
3	Perylene	252	C20H12	000198-55-0	93
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





Library Search Compound Report

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Operator  : sarad
Sample    : jb94209-5
Misc      : op83787,e2p2069,30.4
ALS Vial  : 16   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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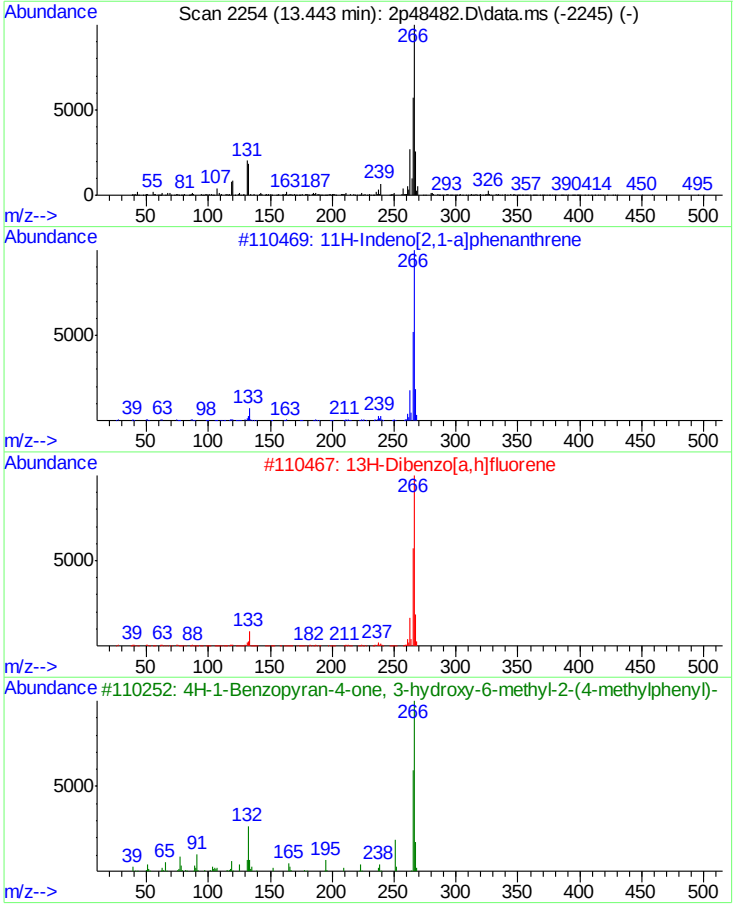
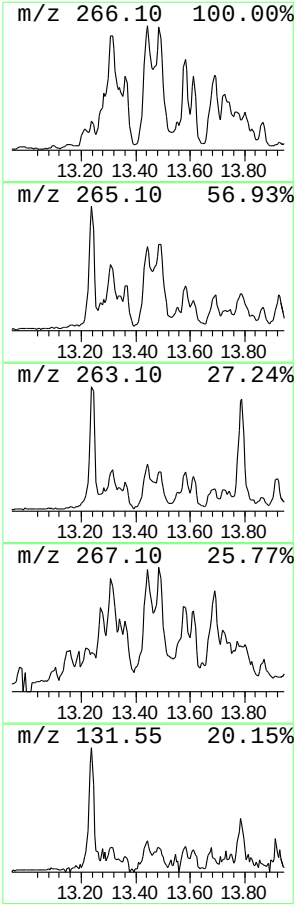
Peak Number 14 unknown Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.443	16.63 ppm	567782	Perylene-d12	13.239

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	76
2	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	70
3	4H-1-Benzopyran-4-one, 3-hydroxy...	266	C17H14O3	078396-37-9	59
4	10-Methylbenzo(a)pyrene	266	C21H14	063104-32-5	58
5	Perylene, 3-methyl-	266	C21H14	024471-47-4	53





Library Search Compound Report

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Data File : 2p48482.D
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Operator  : sarad
Sample    : jb94209-5
Misc      : op83787,e2p2069,30.4
ALS Vial  : 16   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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Peak Number 15  unknown                          Concentration Rank 15
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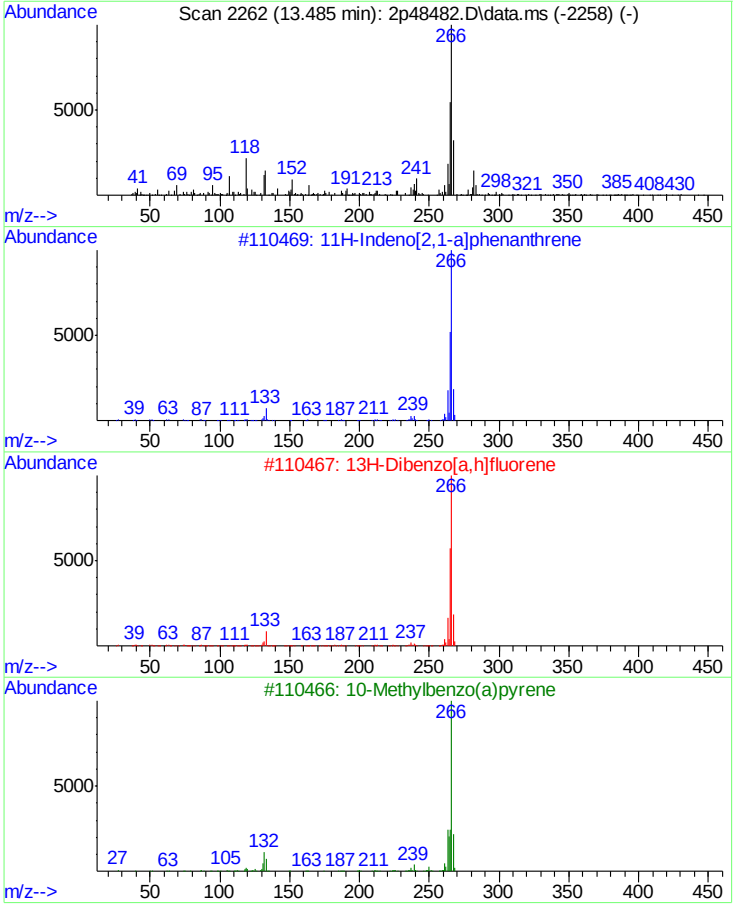
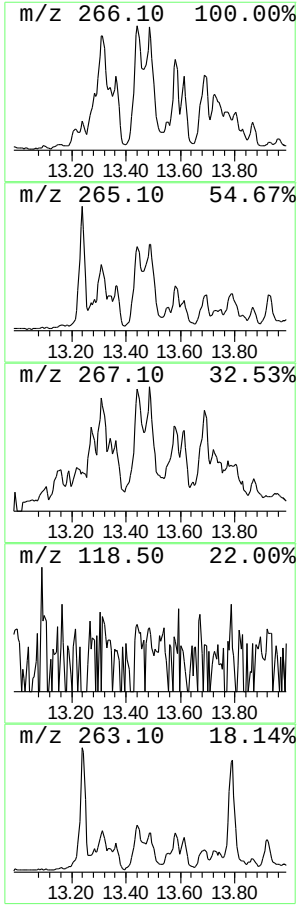
R.T.	EstConc	Area	Relative to ISTD	R.T.
13.486	14.91 ppm	509228	Perylene-d12	13.239

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	52
2	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	52
3	10-Methylbenzo(a)pyrene	266	C21H14	063104-32-5	47
4	Thiazole, 4-phenyl-2-(4-tolylami...	266	C16H14N2S	016098-04-7	47
5	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	43





Library Search Compound Report

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Sample    : jb94209-5
Misc      : op83787,e2p2069,30.4
ALS Vial  : 16   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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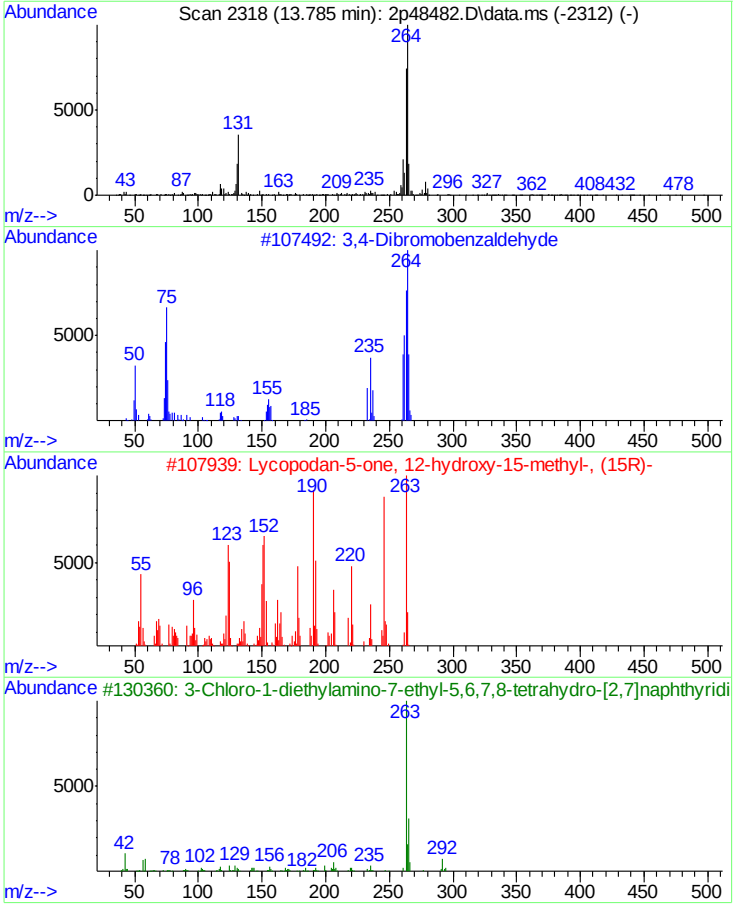
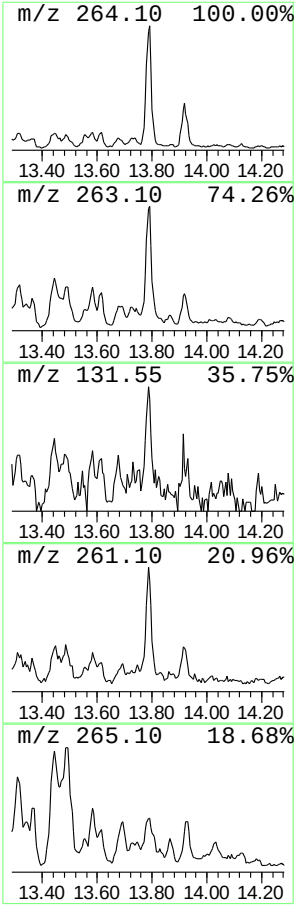
Peak Number 16 unknown Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.785	19.92 ppm	680221	Perylene-d12	13.239

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,4-Dibromobenzaldehyde	262	C7H4Br2O	074003-55-7	64
2	Lycopodan-5-one, 12-hydroxy-15-m...	263	C16H25NO2	006900-92-1	30
3	3-Chloro-1-diethylamino-7-ethyl-...	292	C15H21ClN4	1000274-36-7	27
4	Ethanone, 1-[4-(methyltelluro)ph...	264	C9H10OTe	032294-61-4	22
5	2,5-Bis(4-hydroxyphenyl)pyrimidine	264	C16H12N2O2	159488-83-2	22





Library Search Compound Report

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Operator  : sarad
Sample    : jb94209-5
Misc      : op83787,e2p2069,30.4
ALS Vial  : 16   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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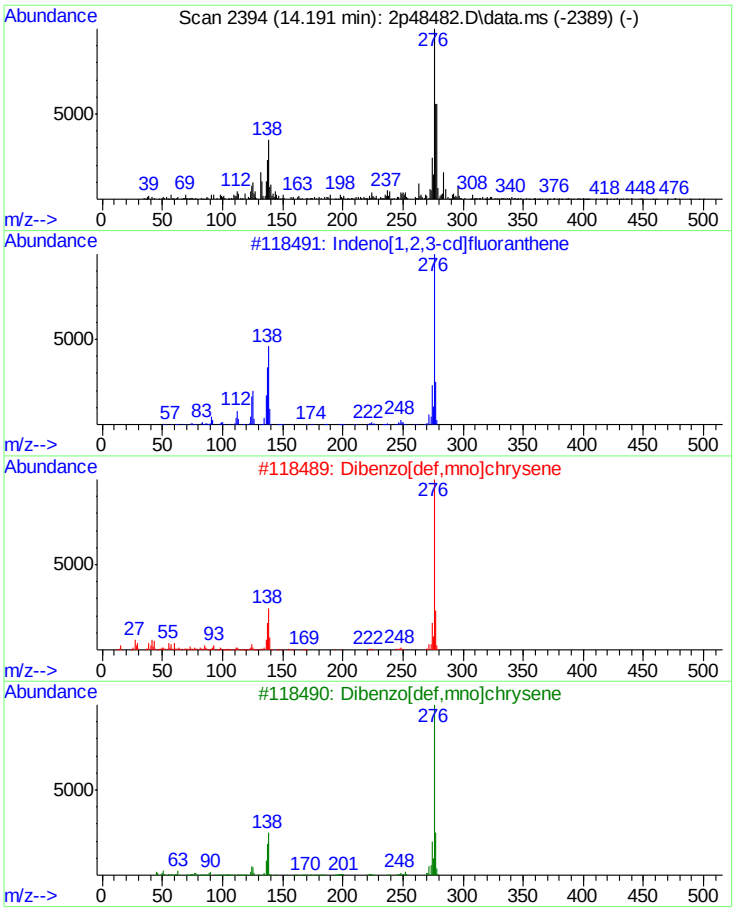
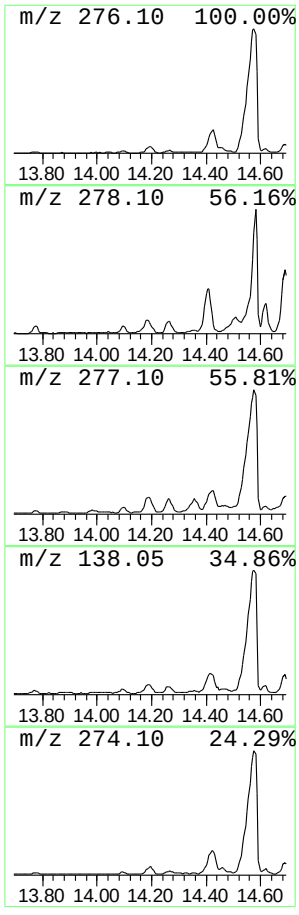
Peak Number 17 unknown PAH substance Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.192	9.50 ppm	324526	Perylene-d12	13.239

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	78
2	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	60
3	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	60
4	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	60
5	Benzo[ghi]perylene	276	C22H12	000191-24-2	55





Library Search Compound Report

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Sample    : jb94209-5
Misc      : op83787,e2p2069,30.4
ALS Vial  : 16   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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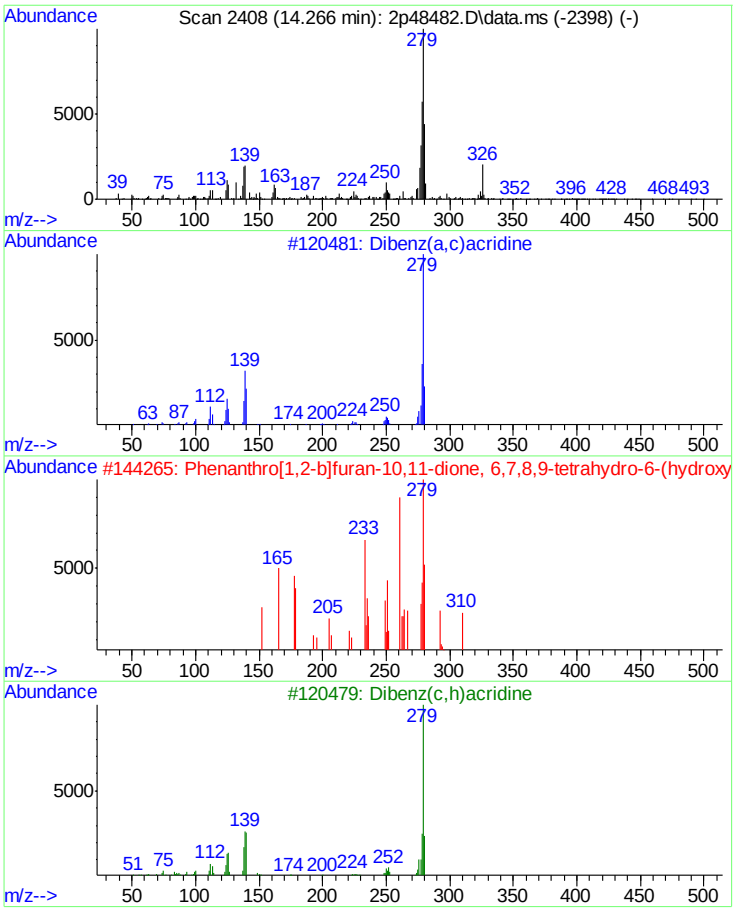
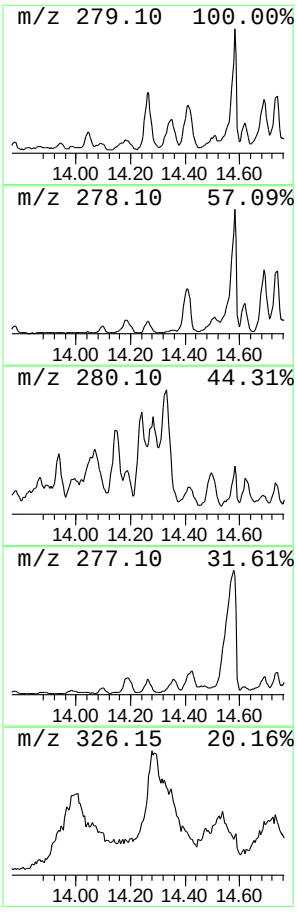
Peak Number 18 unknown Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.266	18.99 ppm	648450	Perylene-d12	13.239

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz(a,c)acridine	279	C21H13N	000215-62-3	91
2	Phenanthro[1,2-b]furan-10,11-dio...	310	C19H18O4	017397-93-2	72
3	Dibenz(c,h)acridine	279	C21H13N	000224-53-3	62
4	Dibenz(a,h)acridine	279	C21H13N	000226-36-8	60
5	Dibenz[a,j]acridine	279	C21H13N	000224-42-0	50





Library Search Compound Report

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Data File : 2p48482.D
Acq On : 11 May 2015 10:50 pm
Operator : sarad
Sample : jb94209-5
Misc : op83787,e2p2069,30.4
ALS Vial : 16 Sample Multiplier: 1

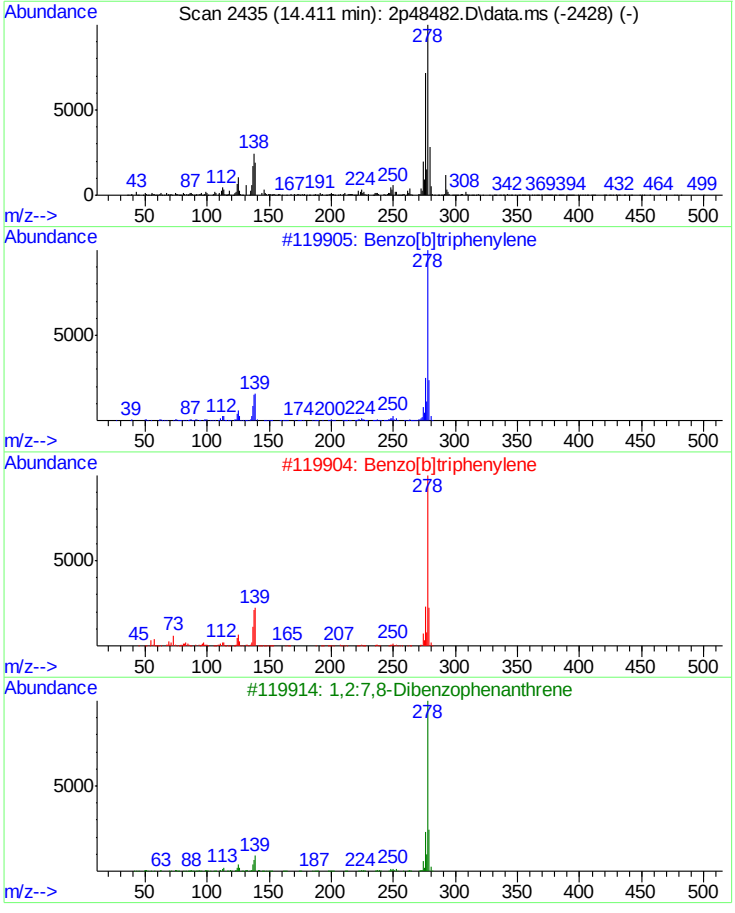
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

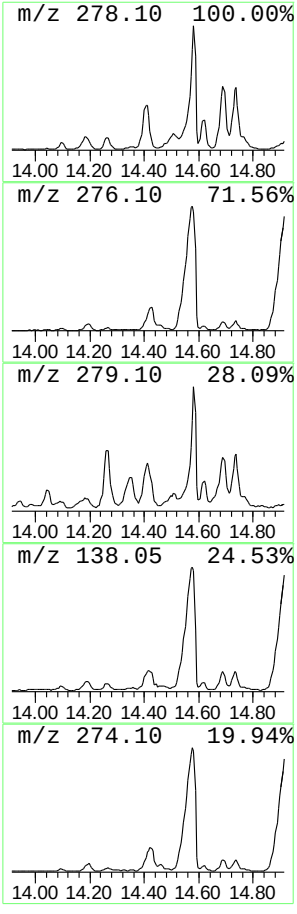
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 19 Benzo[b]triphenylene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.411	32.53 ppm	1110840	Perylene-d12	13.239

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	96
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	60
3	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	55
4	Pentaphene	278	C22H14	000222-93-5	55
5	Benzo[b]chrysene	278	C22H14	000214-17-5	55





Library Search Compound Report

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Sample    : jb94209-5
Misc      : op83787,e2p2069,30.4
ALS Vial  : 16   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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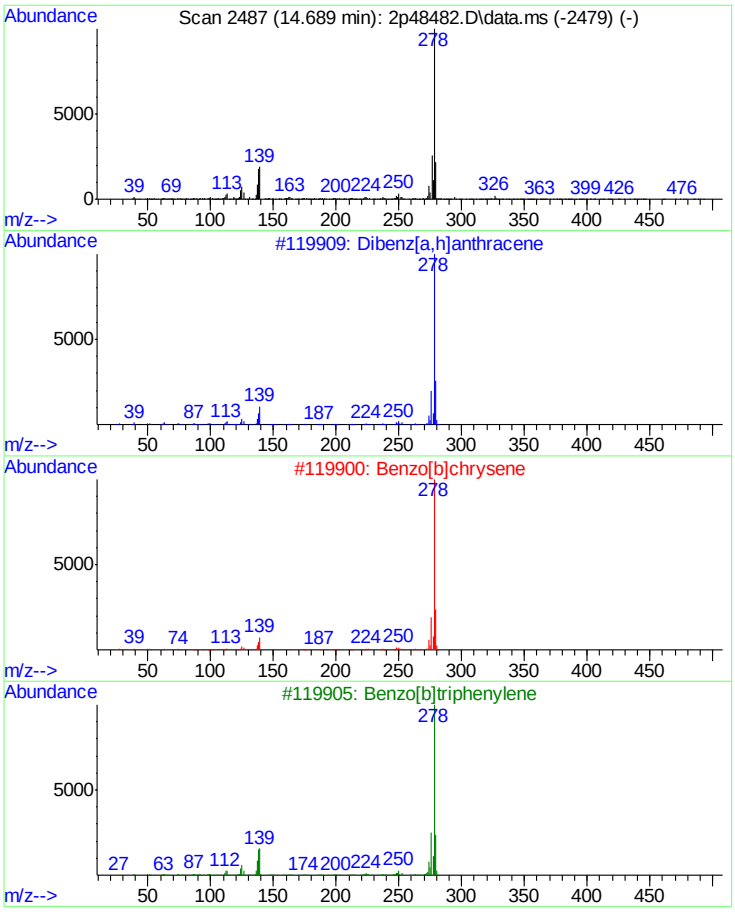
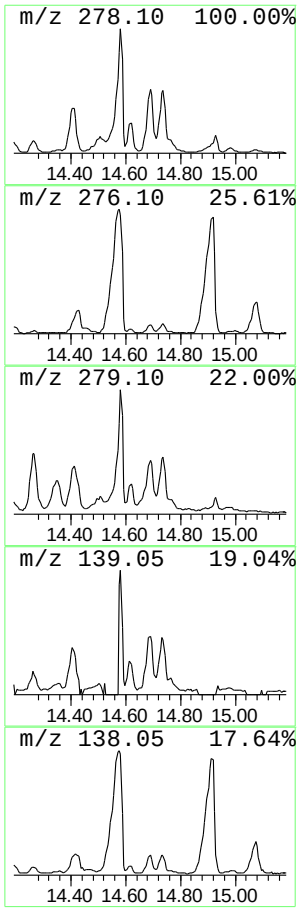
Peak Number 20 unknown PAH substance Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.689	26.46 ppm	903490	Perylene-d12	13.239

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	96
2	Benzo[b]chrysene	278	C22H14	000214-17-5	96
3	Benzo[b]triphenylene	278	C22H14	000215-58-7	95
4	Benzo[b]triphenylene	278	C22H14	000215-58-7	94
5	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	93





Library Search Compound Report

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Data File : 2p48482.D
Acq On    : 11 May 2015  10:50 pm
Operator  : sarad
Sample    : jb94209-5
Misc      : op83787,e2p2069,30.4
ALS Vial  : 16   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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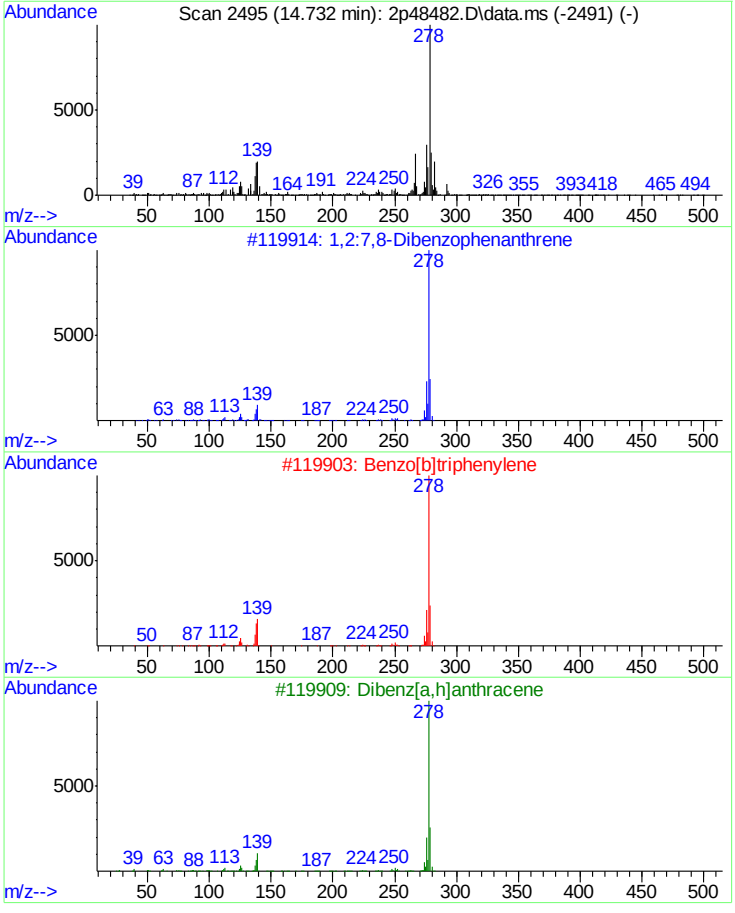
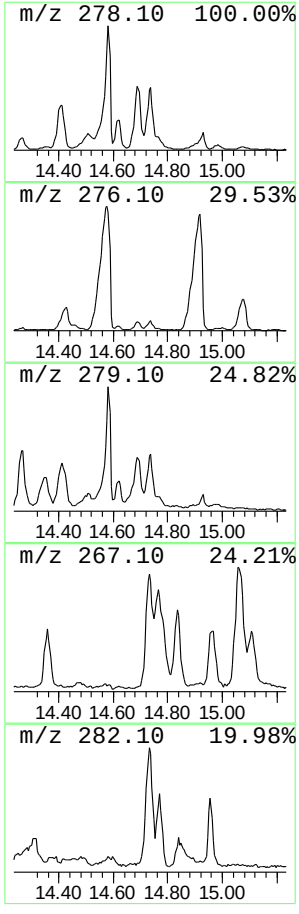
Peak Number 21 -Dibenzophenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.732	43.36 ppm	1480650	Perylene-d12	13.239

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	96
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	93
3	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	92
4	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	92
5	Benzo[b]chrysene	278	C22H14	000214-17-5	91





Library Search Compound Report

```
Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48482.D
Acq On    : 11 May 2015  10:50 pm
Operator  : sarad
Sample    : jb94209-5
Misc      : op83787,e2p2069,30.4
ALS Vial  : 16   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

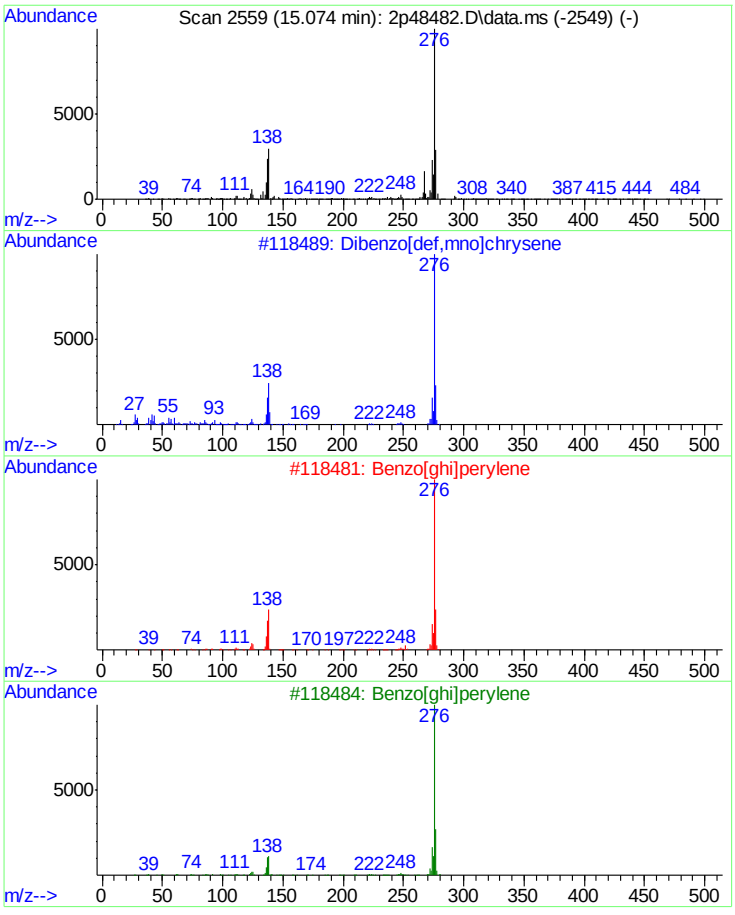
TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

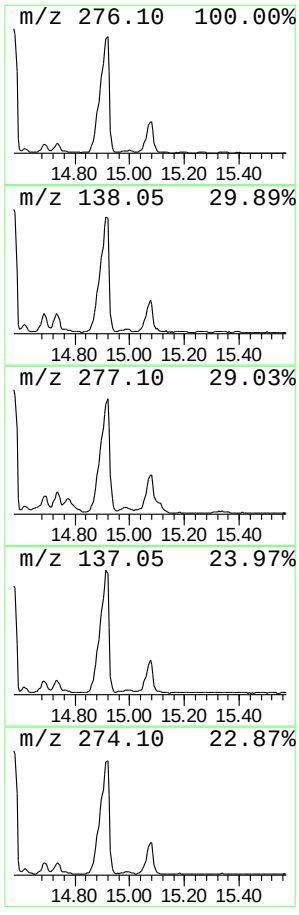
****

Peak Number 22 unknown PAH substance Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.074	33.90 ppm	1157610	Perylene-d12	13.239

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	95
2	Benzo[ghi]perylene	276	C22H12	000191-24-2	94
3	Benzo[ghi]perylene	276	C22H12	000191-24-2	93
4	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	90
5	Benzo[ghi]perylene	276	C22H12	000191-24-2	89





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48482.D
Acq On : 11 May 2015 10:50 pm
Operator : sarad
Sample : jb94209-5
Misc : op83787,e2p2069,30.4
ALS Vial : 16 Sample Multiplier: 1

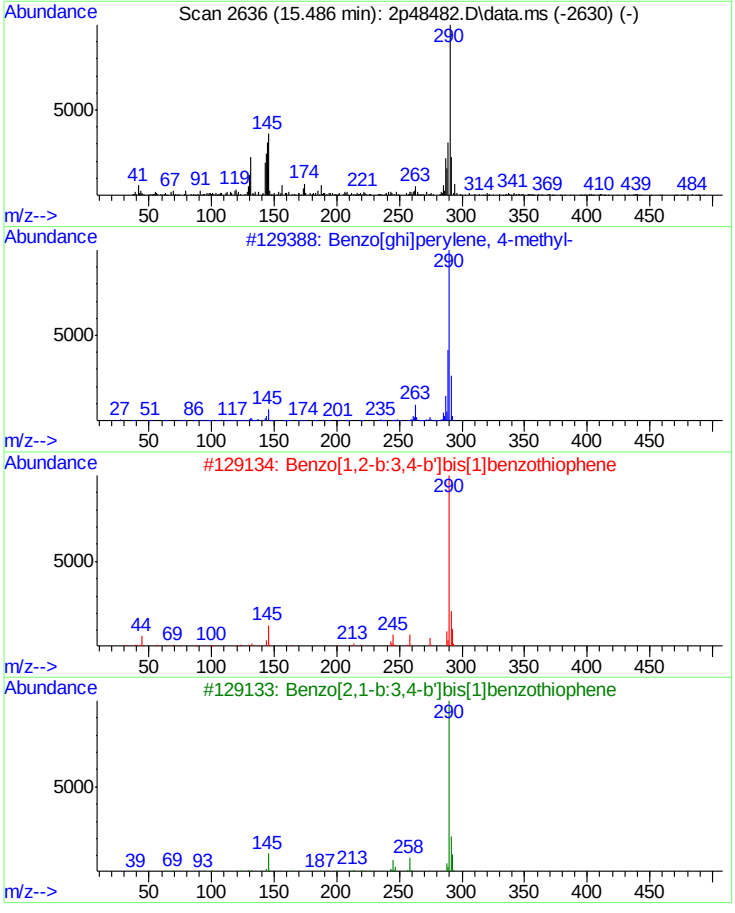
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

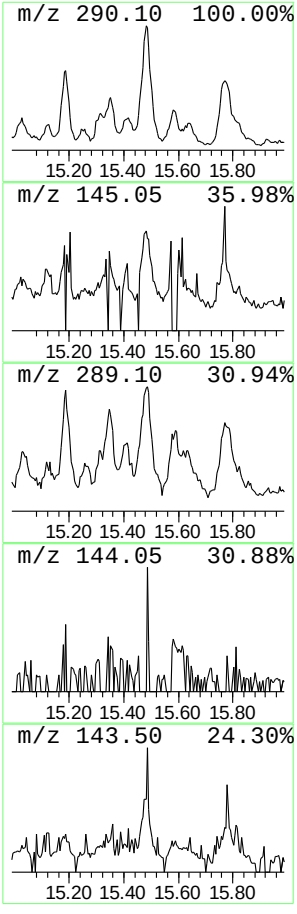
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 23 unknown Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.486	12.11 ppm	413470	Perylene-d12	13.239

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]perylene, 4-methyl-	290	C23H14	019224-38-5	70
2	Benzo[1,2-b:3,4-b']bis[1]benzoth...	290	C18H10S2	000198-89-0	35
3	Benzo[2,1-b:3,4-b']bis[1]benzoth...	290	C18H10S2	000222-24-2	32
4	Benzo[1,2-b:4,5-b']bis[1]benzoth...	290	C18H10S2	000241-34-9	30
5	Benzo[2,1-b:3,4-b']bis[1]benzoth...	290	C18H10S2	000222-24-2	30





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48482.D
Acq On    : 11 May 2015  10:50 pm
Operator  : sarad
Sample    : jb94209-5
Misc      : op83787,e2p2069,30.4
ALS Vial  : 16   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```
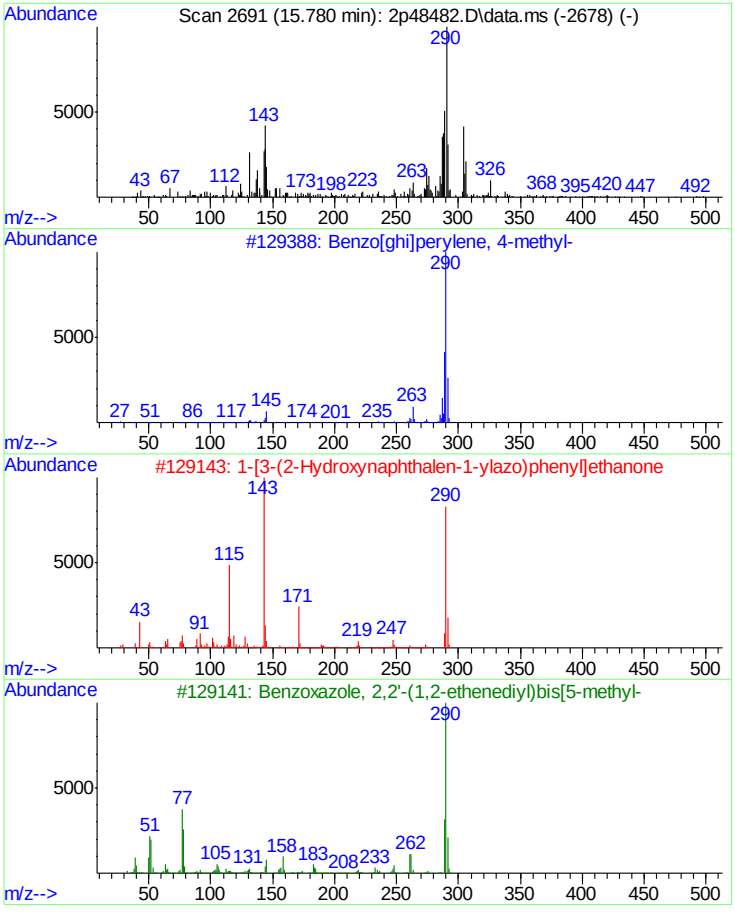
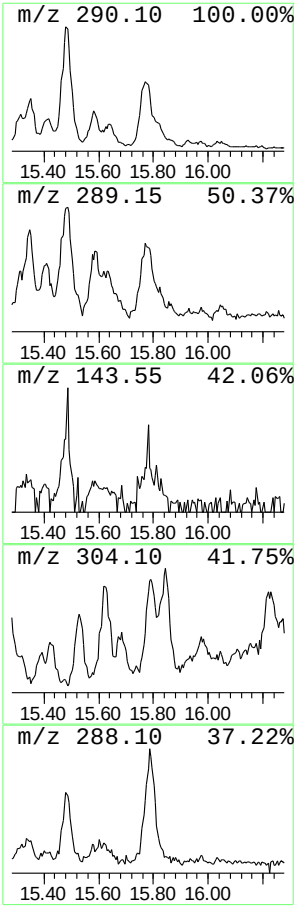

****

Peak Number 24 unknown Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.780	24.75 ppm	845348	Perylene-d12	13.239

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]perylene, 4-methyl-	290	C23H14	019224-38-5	43
2	1-[3-(2-Hydroxynaphthalen-1-ylaz...	290	C18H14N2O2	014197-06-9	32
3	Benzoxazole, 2,2'-(1,2-ethenediy...	290	C18H14N2O2	001041-00-5	27
4	3-(6-Methoxy-2-naphthalenyl)-3-m...	304	C20H16O3	071964-76-6	25
5	2-[1-(2-Acetylphenyl)ethyl]-6-me...	304	C21H20O2	1000326-16-5	25





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48482.D
Acq On : 11 May 2015 10:50 pm
Operator : sarad
Sample : jb94209-5
Misc : op83787,e2p2069,30.4
ALS Vial : 16 Sample Multiplier: 1

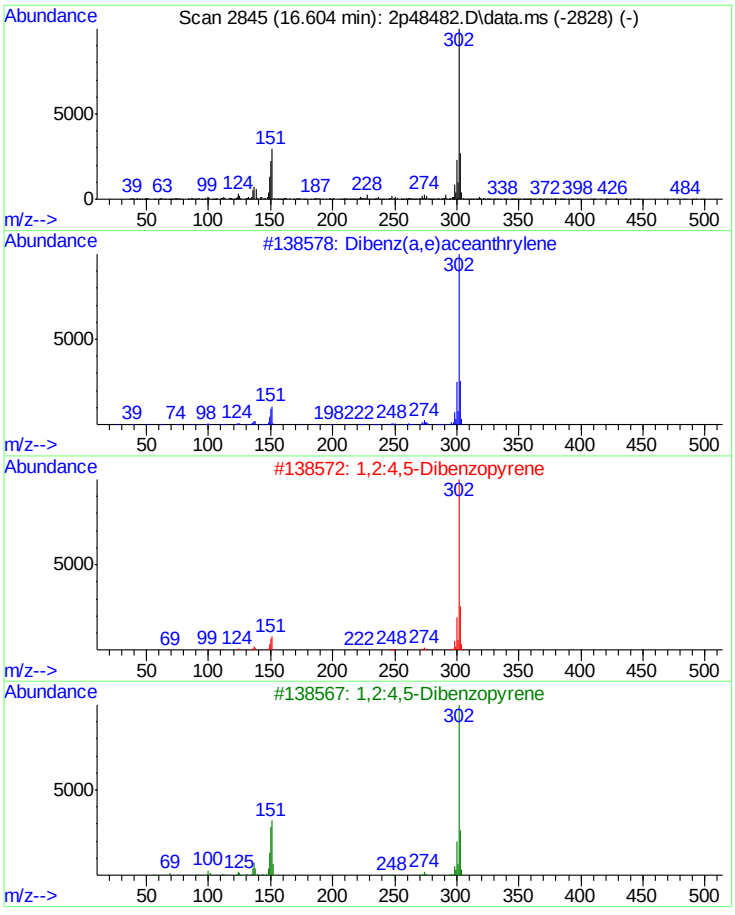
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

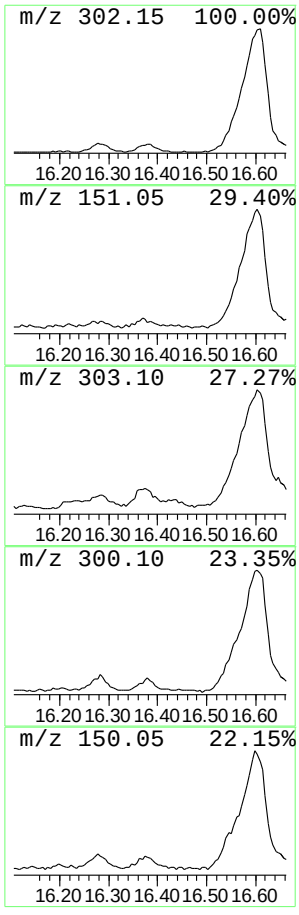
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 25 Dibenz(a,e)aceanthrylene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.604	51.95 ppm	1774170	Perylene-d12	13.239

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	99
2	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	98
3	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	98
4	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	97
5	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	96





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48482.D
Acq On : 11 May 2015 10:50 pm
Operator : sarad
Sample : jb94209-5
Misc : op83787,e2p2069,30.4
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
system artifact...	2.884	20.5	ppm	547829	1	4.318	1067670	40.0
Naphthalene, 1-...	6.040	12.2	ppm	403546	4	5.372	1328000	40.0
Naphthalene dim...	6.538	8.0	ppm	307499	5	6.810	1535600	40.0
unknown	7.329	11.4	ppm	439591	6	6.810	1535600	40.0
unknown	7.393	10.3	ppm	393568	6	6.810	1535600	40.0
unknown	8.661	6.2	ppm	3057830	7	8.062	19608800	40.0
Pyrene methyl	10.169	7.5	ppm	2254270	8	11.250	11984100	40.0
Chrysene methyl	11.817	6.1	ppm	1831170	9	11.250	11984100	40.0
unknown	12.303	13.6	ppm	464881	10	13.239	1366050	40.0
unknown	12.533	27.8	ppm	947701	10	13.239	1366050	40.0
unknown PAH sub...	12.870	48.6	ppm	1658780	10	13.239	1366050	40.0
unknown	13.025	40.7	ppm	1389330	10	13.239	1366050	40.0
unknown PAH sub...	13.106	137.2	ppm	4686450	10	13.239	1366050	40.0
unknown	13.443	16.6	ppm	567782	10	13.239	1366050	40.0
unknown	13.486	14.9	ppm	509228	10	13.239	1366050	40.0
unknown	13.785	19.9	ppm	680221	10	13.239	1366050	40.0
unknown PAH sub...	14.192	9.5	ppm	324526	10	13.239	1366050	40.0
unknown	14.266	19.0	ppm	648450	10	13.239	1366050	40.0
Benzo[b]triphen...	14.411	32.5	ppm	1110840	10	13.239	1366050	40.0
unknown PAH sub...	14.689	26.5	ppm	903490	10	13.239	1366050	40.0
-Dibenzophenant...	14.732	43.4	ppm	1480650	10	13.239	1366050	40.0
unknown PAH sub...	15.074	33.9	ppm	1157610	10	13.239	1366050	40.0
unknown	15.486	12.1	ppm	413470	10	13.239	1366050	40.0
unknown	15.780	24.8	ppm	845348	10	13.239	1366050	40.0
Dibenz(a,e)acea...	16.604	52.0	ppm	1774170	10	13.239	1366050	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48483.D
Acq On : 11 May 2015 11:11 pm
Operator : sarad
Sample : jb94209-5
Misc : op83787,e2p2069,30.4,,,1,10
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 12 08:54:15 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

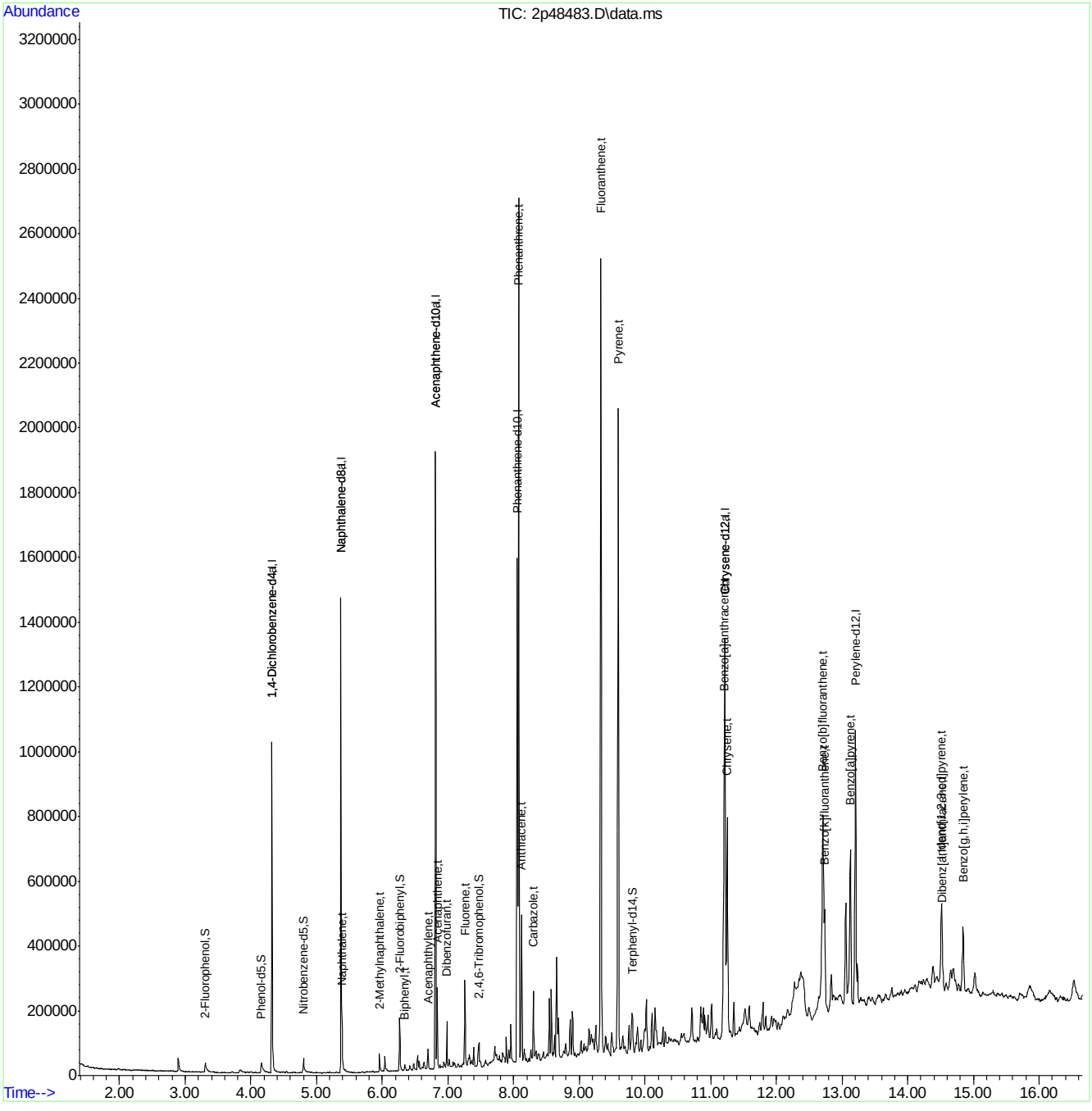
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.318	152	135893	40.00 ppm	-0.08
24) Naphthalene-d8	5.372	136	466836	40.00 ppm	-0.09
47) Acenaphthene-d10	6.810	164	298611	40.00 ppm	-0.09
69) Phenanthrene-d10	8.057	188	477406	40.00 ppm	-0.09
83) Chrysene-d12	11.218	240	408088	40.00 ppm	-0.12
92) Perylene-d12	13.207	264	352057	40.00 ppm	-0.11
102) 1,4-Dichlorobenzene-d4a	4.318	152	135893	40.00 ppm	-0.08
104) Naphthalene-d8a	5.372	136	466836	40.00 ppm	#-0.09
106) Acenaphthene-d10a	6.810	164	298611	40.00 ppm	-0.09
109) Chrysene-d12a	11.218	240	408088	40.00 ppm	-0.12
System Monitoring Compounds					
5) 2-Fluorophenol	3.307	112	13156	3.29 ppm	-0.09
Spiked Amount 50.000	Range 11 - 58		Recovery	= 6.58%#	
8) Phenol-d5	4.163	99	15401	3.06 ppm	-0.06
Spiked Amount 50.000	Range 10 - 59		Recovery	= 6.12%#	
25) Nitrobenzene-d5	4.799	82	16277	3.85 ppm	-0.07
Spiked Amount 50.000	Range 19 - 61		Recovery	= 7.70%#	
51) 2-Fluorobiphenyl	6.265	172	36995	3.62 ppm	-0.08
Spiked Amount 50.000	Range 21 - 58		Recovery	= 7.24%#	
73) 2,4,6-Tribromophenol	7.474	330	3936	3.55 ppm	-0.08
Spiked Amount 50.000	Range 12 - 68		Recovery	= 7.10%#	
85) Terphenyl-d14	9.811	244	33315	4.39 ppm	-0.11
Spiked Amount 50.000	Range 16 - 65		Recovery	= 8.78%#	
Target Compounds					Qvalue
38) Naphthalene	5.393	128	41307	3.37 ppm	97
44) 2-Methylnaphthalene	5.960	141	10714	1.47 ppm	96
53) Biphenyl	6.345	154	4993	0.44 ppm	92
56) Acenaphthylene	6.698	152	19711	1.40 ppm	98
59) Acenaphthene	6.837	153	41181	4.70 ppm	97
62) Dibenzofuran	6.982	168	41665	3.55 ppm	90
66) Fluorene	7.260	166	50925	5.30 ppm	93
77) Phenanthrene	8.078	178	754505	57.46 ppm	99
78) Anthracene	8.121	178	151578	11.41 ppm	98
79) Carbazole	8.303	167	73603	5.74 ppm	97
81) Fluoranthene	9.330	202	981166	62.40 ppm	96
84) Pyrene	9.592	202	784309	62.95 ppm	95
88) Benzo[a]anthracene	11.207	228	331697	28.14 ppm	99
90) Chrysene	11.250	228	285977	27.17 ppm	98
94) Benzo[b]fluoranthene	12.710	252	316511	29.46 ppm	97
95) Benzo[k]fluoranthene	12.737	252	97645	9.60 ppm	96
96) Benzo[a]pyrene	13.127	252	215211	23.17 ppm	93
97) Indeno[1,2,3-cd]pyrene	14.513	276	123319	11.58 ppm	89
99) Dibenz[a,h]anthracene	14.529	278	34962	4.04 ppm	88
101) Benzo[g,h,i]perylene	14.844	276	109334	12.44 ppm	90

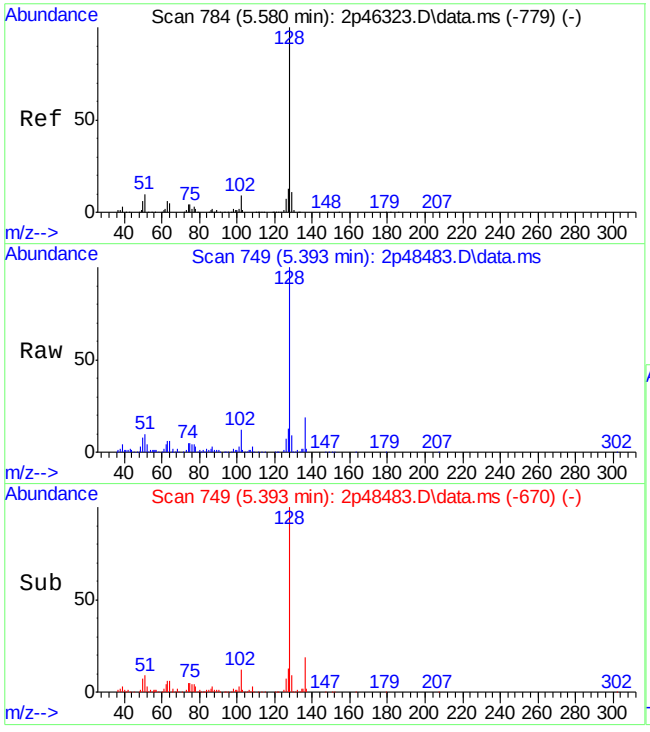
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48483.D
Acq On : 11 May 2015 11:11 pm
Operator : sarad
Sample : jb94209-5
Misc : op83787,e2p2069,30.4,,,1,10
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 12 08:54:15 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

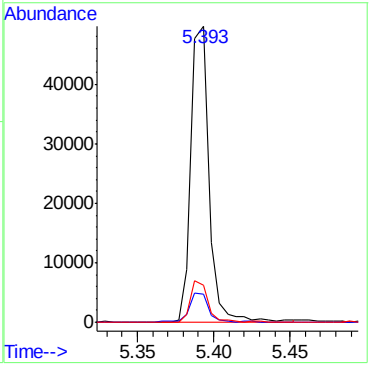


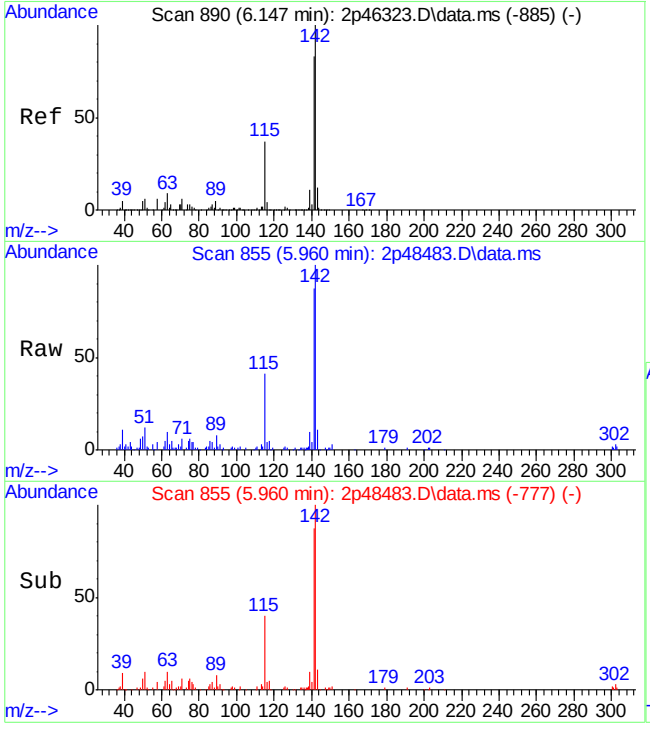


#38
Naphthalene
Concen: 3.37 ppm
RT: 5.393 min Scan# 749
Delta R.T. -0.080 min
Lab File: 2p48483.D
Acq: 11 May 2015 11:11 pm

Tgt Ion:128 Resp: 41307

Ion	Ratio	Lower	Upper
128	100		
129	9.3	0.0	41.0
127	12.6	0.0	43.4

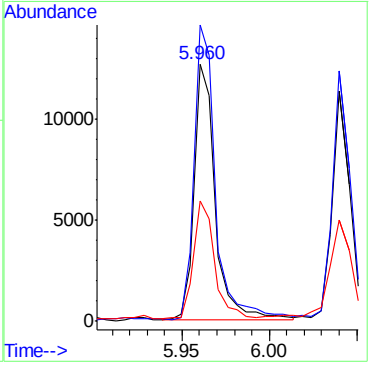


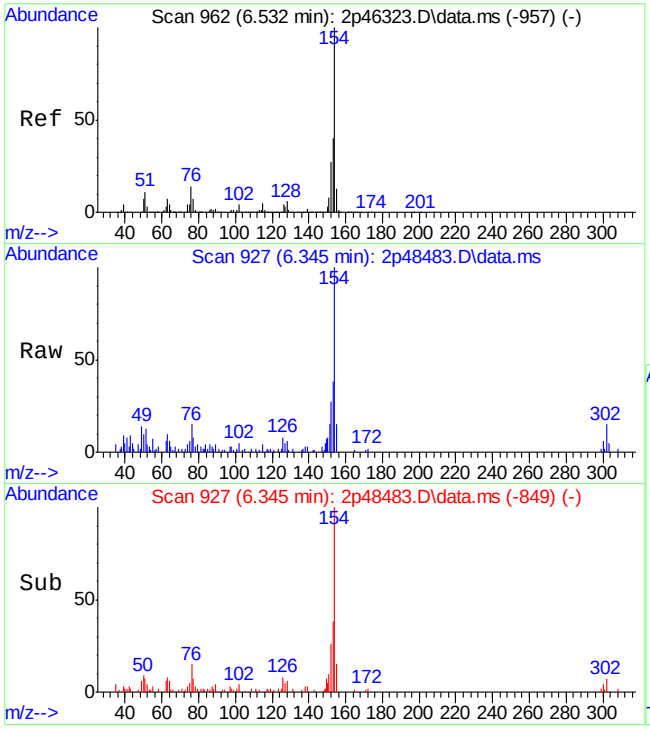


#44
2-Methylnaphthalene
Concen: 1.47 ppm
RT: 5.960 min Scan# 855
Delta R.T. -0.085 min
Lab File: 2p48483.D
Acq: 11 May 2015 11:11 pm

Tgt Ion:141 Resp: 10714

Ion	Ratio	Lower	Upper
141	100		
142	114.7	85.1	145.1
115	45.6	6.3	66.3

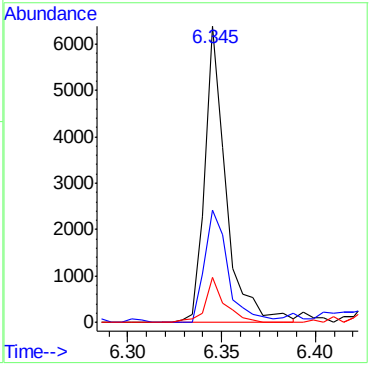


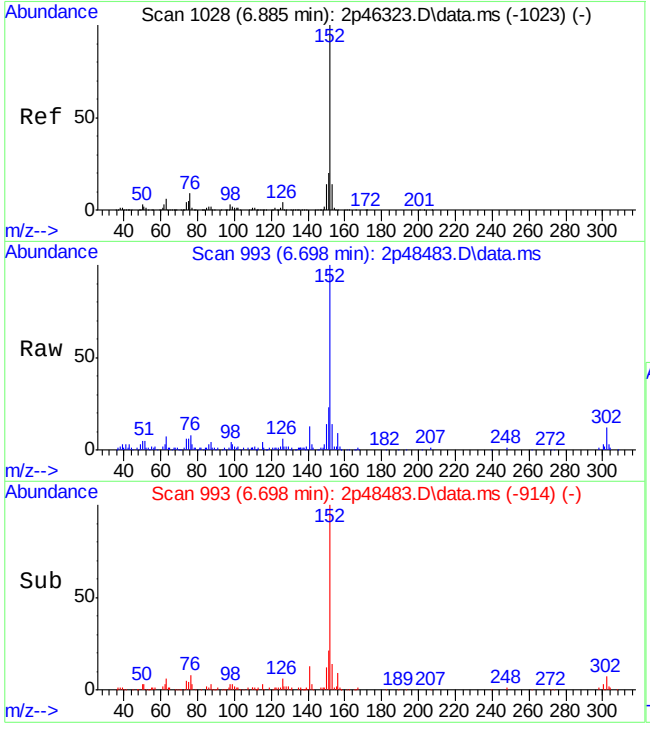


#53
Biphenyl
Concen: 0.44 ppm
RT: 6.345 min Scan# 927
Delta R.T. -0.085 min
Lab File: 2p48483.D
Acq: 11 May 2015 11:11 pm

Tgt Ion:154 Resp: 4993

Ion	Ratio	Lower	Upper
154	100		
153	36.6	12.1	72.1
155	15.3	0.0	43.1

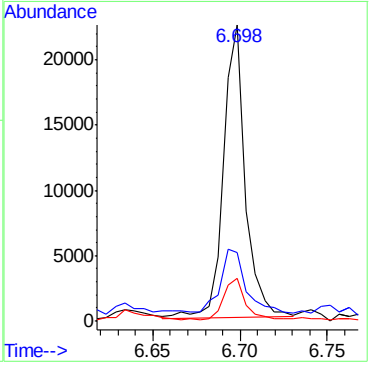


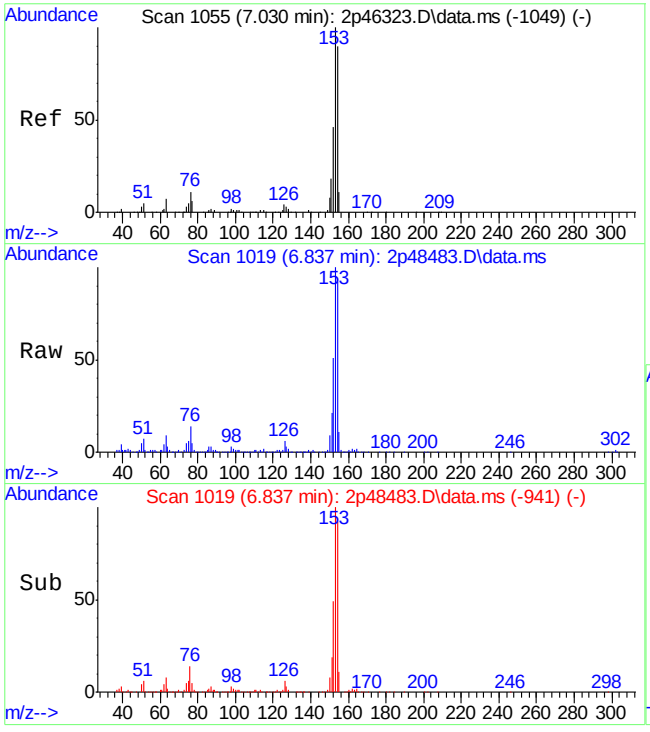


#56
Acenaphthylene
Concen: 1.40 ppm
RT: 6.698 min Scan# 993
Delta R.T. -0.080 min
Lab File: 2p48483.D
Acq: 11 May 2015 11:11 pm

Tgt Ion:152 Resp: 19711

Ion	Ratio	Lower	Upper
152	100		
151	20.4	0.0	49.7
153	13.5	0.0	42.8

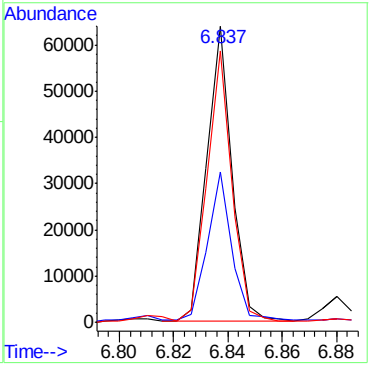


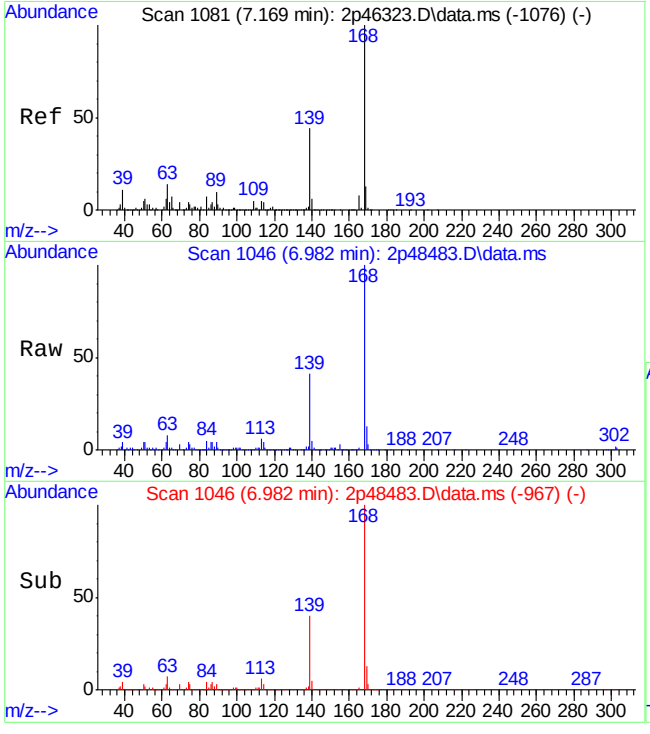


#59
Acenaphthene
Concen: 4.70 ppm
RT: 6.837 min Scan# 1019
Delta R.T. -0.085 min
Lab File: 2p48483.D
Acq: 11 May 2015 11:11 pm

Tgt Ion:153 Resp: 41181

Ion	Ratio	Lower	Upper
153	100		
152	50.1	16.9	76.9
154	90.9	58.3	118.3

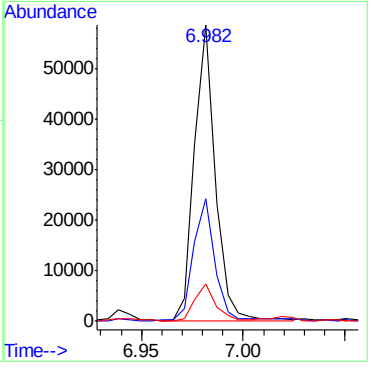


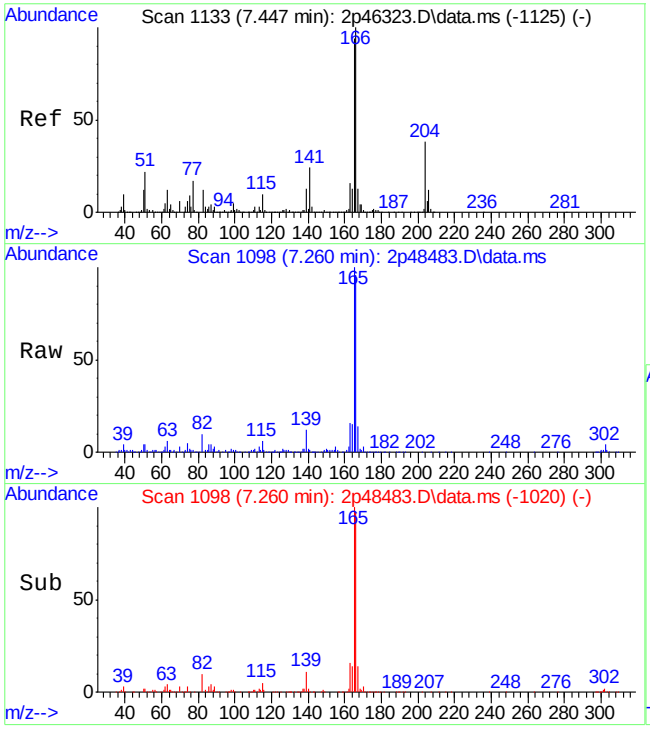


#62
Dibenzofuran
Concen: 3.55 ppm
RT: 6.982 min Scan# 1046
Delta R.T. -0.080 min
Lab File: 2p48483.D
Acq: 11 May 2015 11:11 pm

Tgt Ion:168 Resp: 41665

Ion	Ratio	Lower	Upper
168	100		
139	40.9	3.6	63.6
169	12.1	0.0	43.3

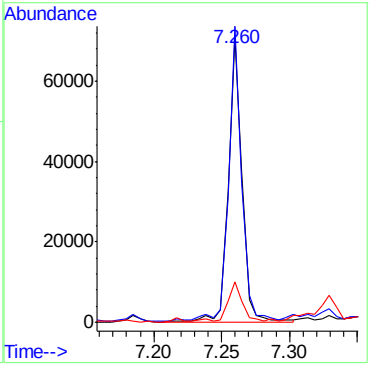


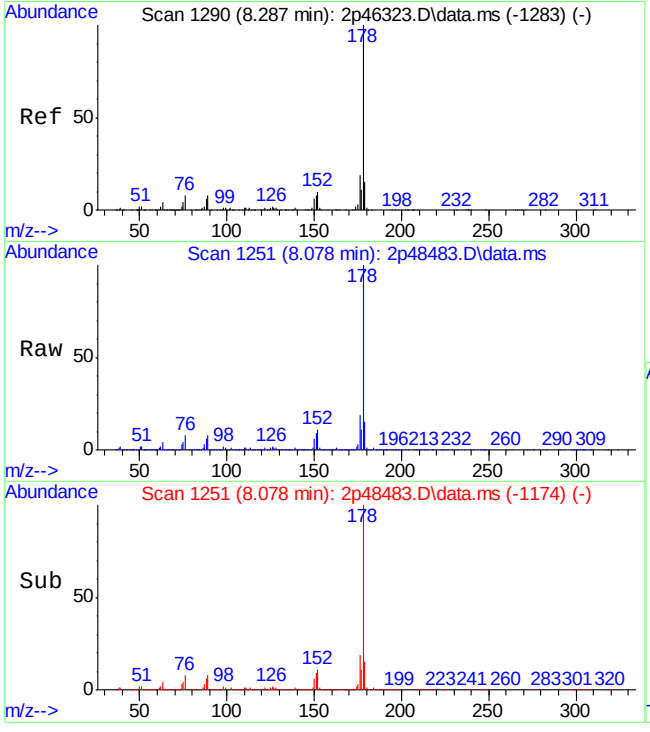


#66
Fluorene
Concen: 5.30 ppm
RT: 7.260 min Scan# 1098
Delta R.T. -0.085 min
Lab File: 2p48483.D
Acq: 11 May 2015 11:11 pm

Tgt Ion:166 Resp: 50925

Ion	Ratio	Lower	Upper
166	100		
165	102.6	65.0	125.0
167	13.2	0.0	43.9

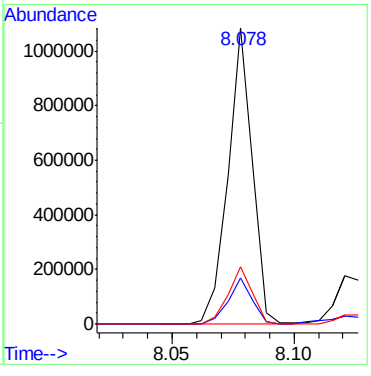




#77
Phenanthrene
Concen: 57.46 ppm
RT: 8.078 min Scan# 1251
Delta R.T. -0.091 min
Lab File: 2p48483.D
Acq: 11 May 2015 11:11 pm

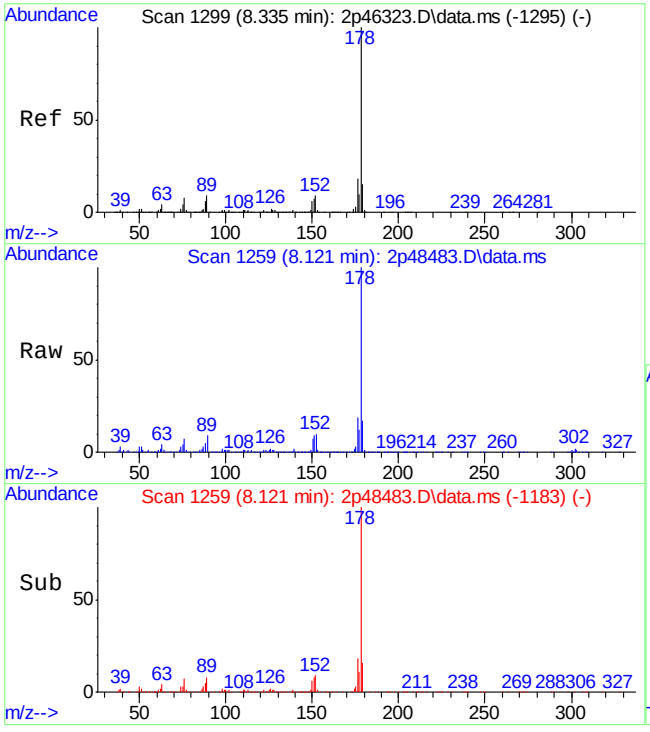
Tgt Ion:178 Resp: 754505

Ion	Ratio	Lower	Upper
178	100		
179	15.3	0.0	45.4
176	19.4	0.0	48.5



9.1.12

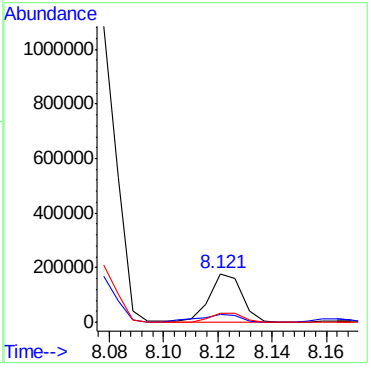
9

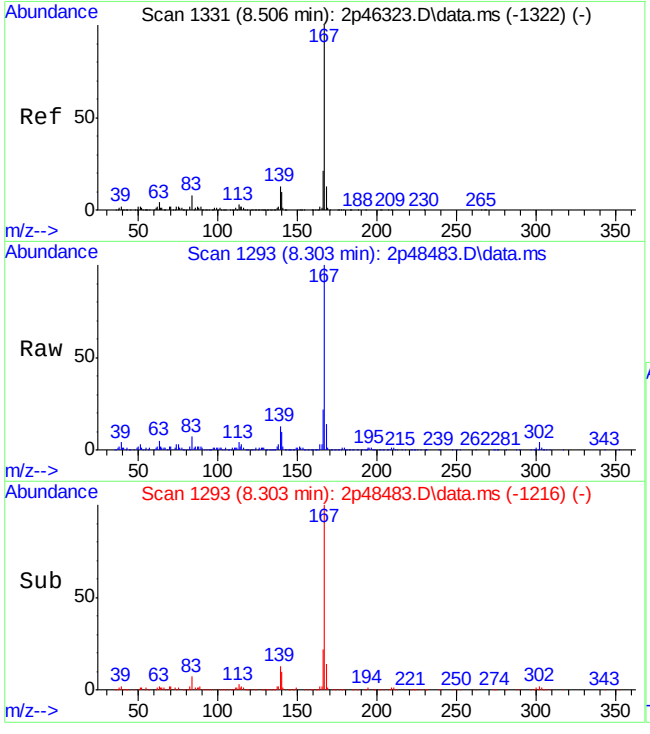


#78
Anthracene
Concen: 11.41 ppm
RT: 8.121 min Scan# 1259
Delta R.T. -0.096 min
Lab File: 2p48483.D
Acq: 11 May 2015 11:11 pm

Tgt Ion:178 Resp: 151578

Ion	Ratio	Lower	Upper
178	100		
179	16.4	0.0	45.2
176	18.9	0.0	48.1

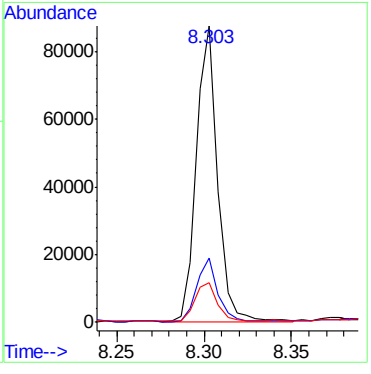




#79
Carbazole
Concen: 5.74 ppm
RT: 8.303 min Scan# 1293
Delta R.T. -0.091 min
Lab File: 2p48483.D
Acq: 11 May 2015 11:11 pm

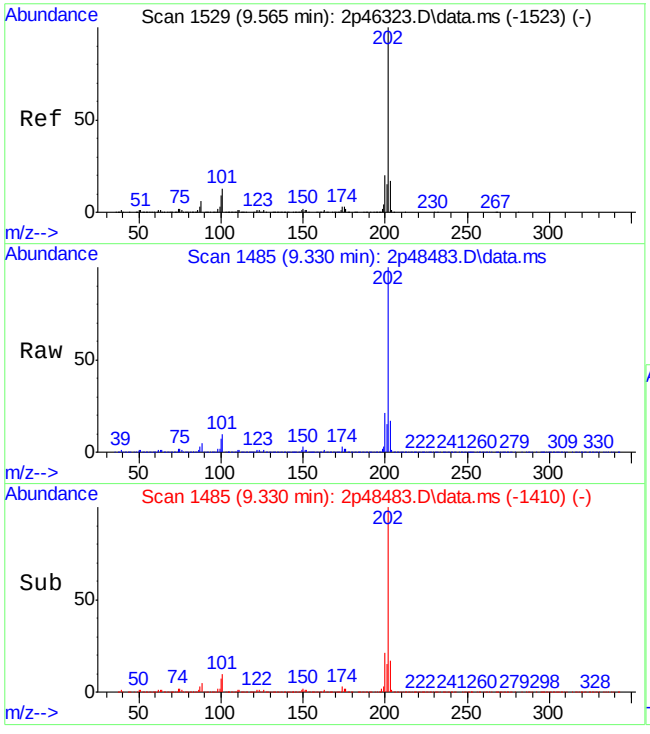
Tgt Ion:167 Resp: 73603

Ion	Ratio	Lower	Upper
167	100		
166	21.6	0.0	50.6
139	13.2	0.0	41.7



9.1.12

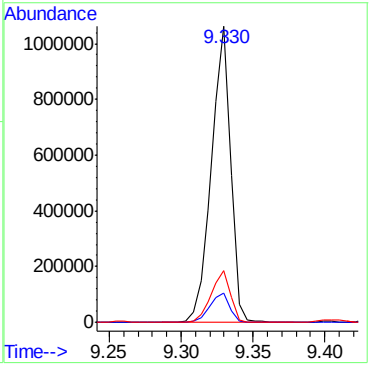
9

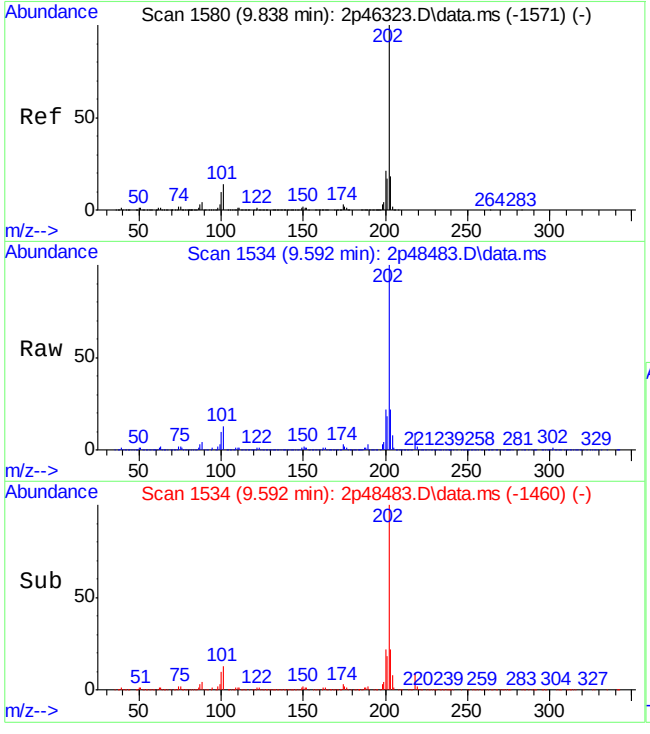


#81
Fluoranthene
Concen: 62.40 ppm
RT: 9.330 min Scan# 1485
Delta R.T. -0.101 min
Lab File: 2p48483.D
Acq: 11 May 2015 11:11 pm

Tgt Ion:202 Resp: 981166

Ion	Ratio	Lower	Upper
202	100		
101	9.9	0.0	43.1
203	17.3	0.0	47.4

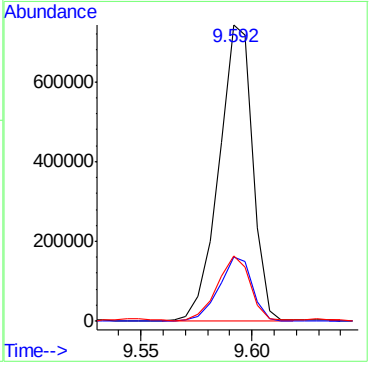


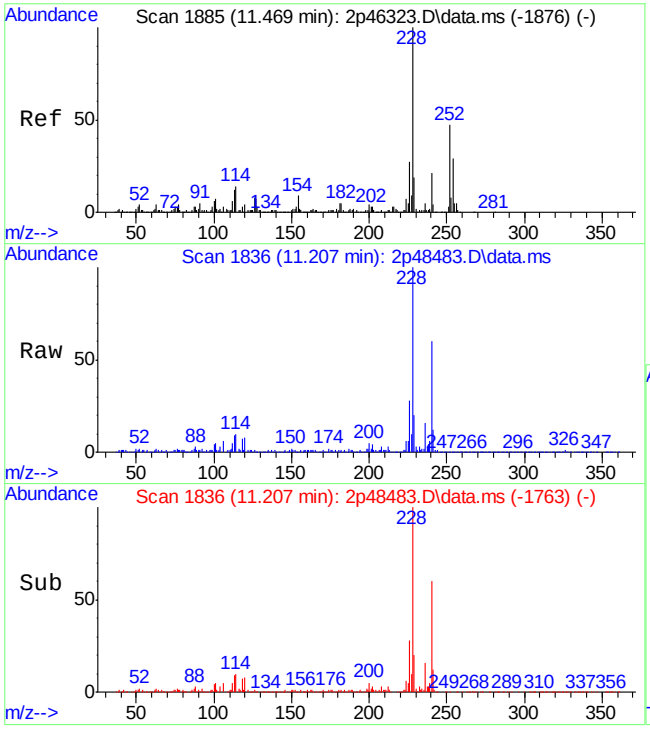


#84
Pyrene
Concen: 62.95 ppm
RT: 9.592 min Scan# 1534
Delta R.T. -0.107 min
Lab File: 2p48483.D
Acq: 11 May 2015 11:11 pm

Tgt Ion:202 Resp: 784309

Ion	Ratio	Lower	Upper
202	100		
200	21.7	0.0	51.0
203	21.8	0.0	47.4

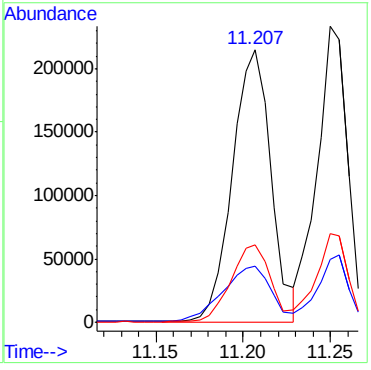


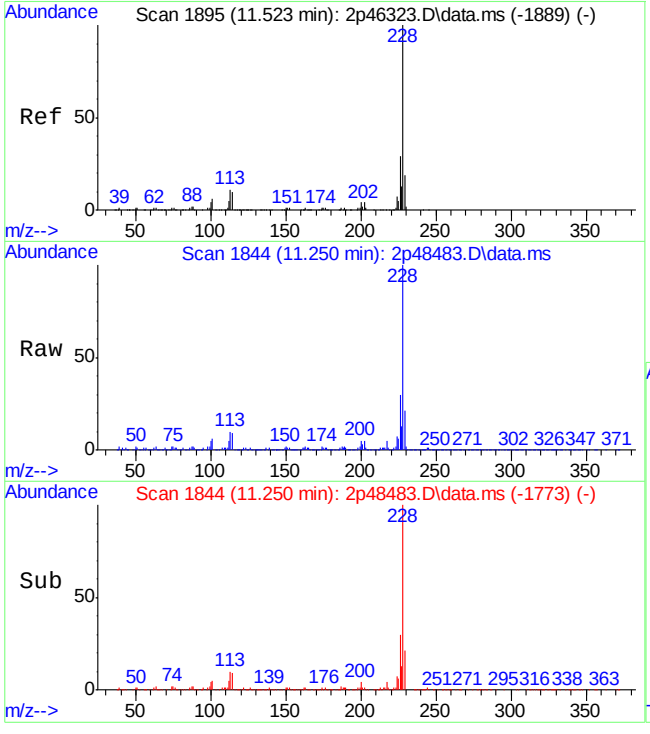


#88
Benzo[a]anthracene
Concen: 28.14 ppm
RT: 11.207 min Scan# 1836
Delta R.T. -0.112 min
Lab File: 2p48483.D
Acq: 11 May 2015 11:11 pm

Tgt Ion:228 Resp: 331697

Ion	Ratio	Lower	Upper
228	100		
229	19.7	0.0	50.1
226	27.8	0.0	57.2

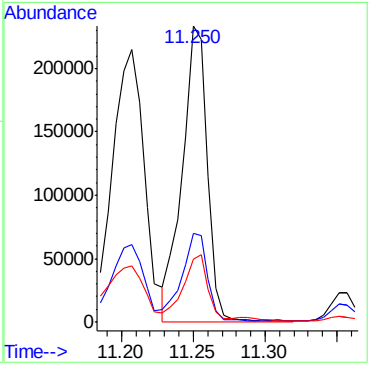


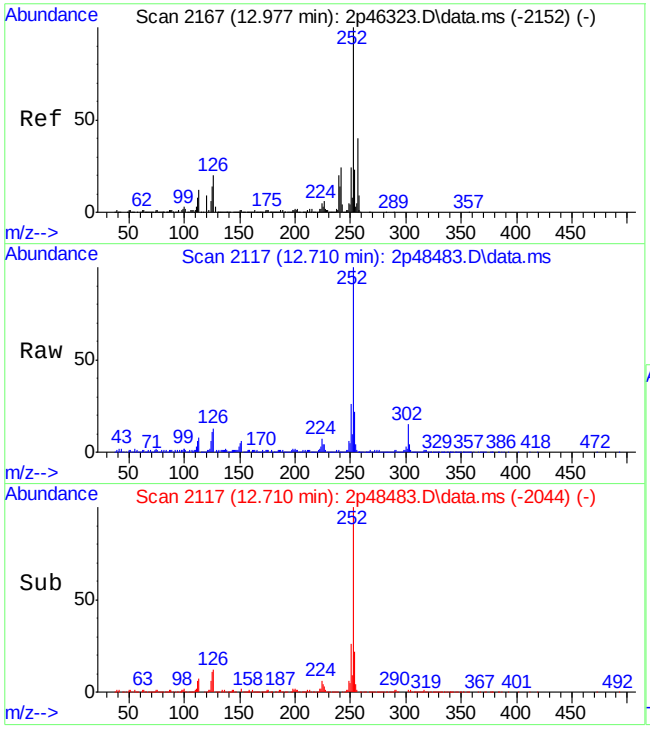


#90
Chrysene
Concen: 27.17 ppm
RT: 11.250 min Scan# 1844
Delta R.T. -0.123 min
Lab File: 2p48483.D
Acq: 11 May 2015 11:11 pm

Tgt Ion:228 Resp: 285977

Ion	Ratio	Lower	Upper
228	100		
226	29.3	0.0	58.8
229	20.6	0.0	49.1

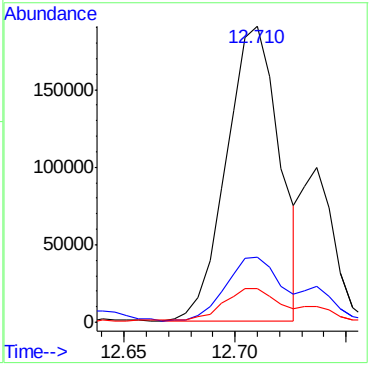


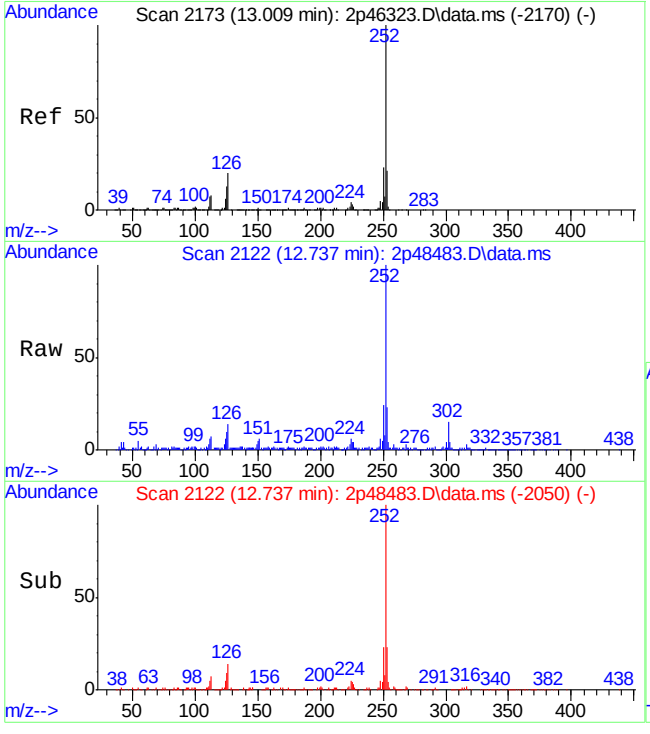


#94
Benzo[b]fluoranthene
Concen: 29.46 ppm
RT: 12.710 min Scan# 2117
Delta R.T. -0.112 min
Lab File: 2p48483.D
Acq: 11 May 2015 11:11 pm

Tgt Ion:252 Resp: 316511

Ion	Ratio	Lower	Upper
252	100		
253	21.4	0.0	52.1
125	10.8	0.0	42.9

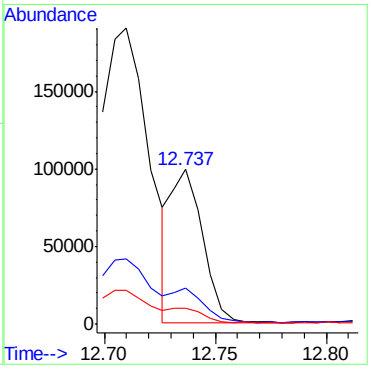




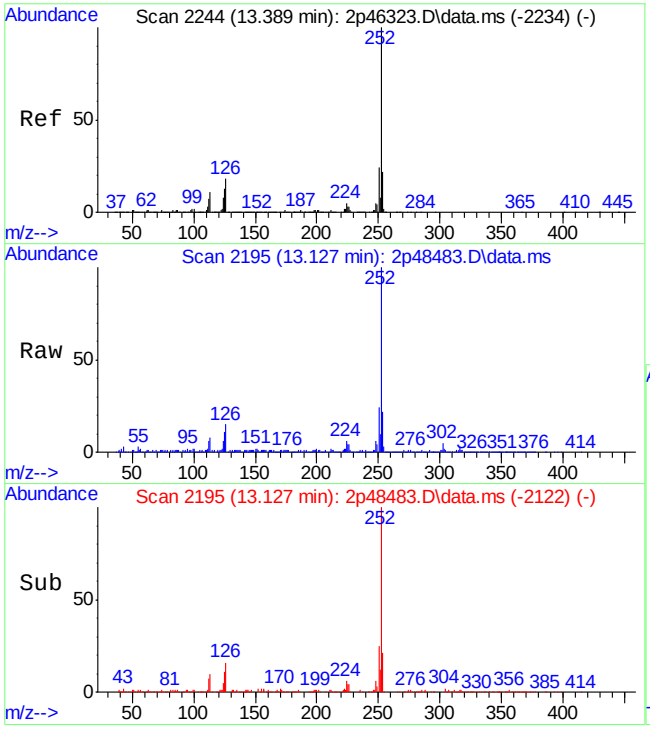
#95
Benzo[k]fluoranthene
Concen: 9.60 ppm
RT: 12.737 min Scan# 2122
Delta R.T. -0.117 min
Lab File: 2p48483.D
Acq: 11 May 2015 11:11 pm

Tgt Ion:252 Resp: 97645

Ion	Ratio	Lower	Upper
252	100		
253	21.5	0.0	51.5
125	8.5	0.0	42.7



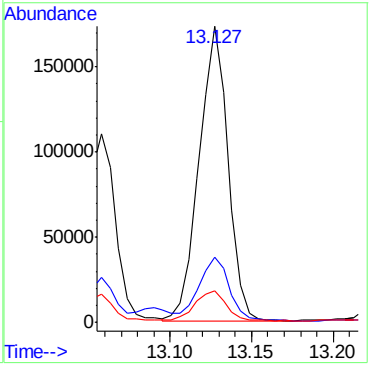
9.1.12
9

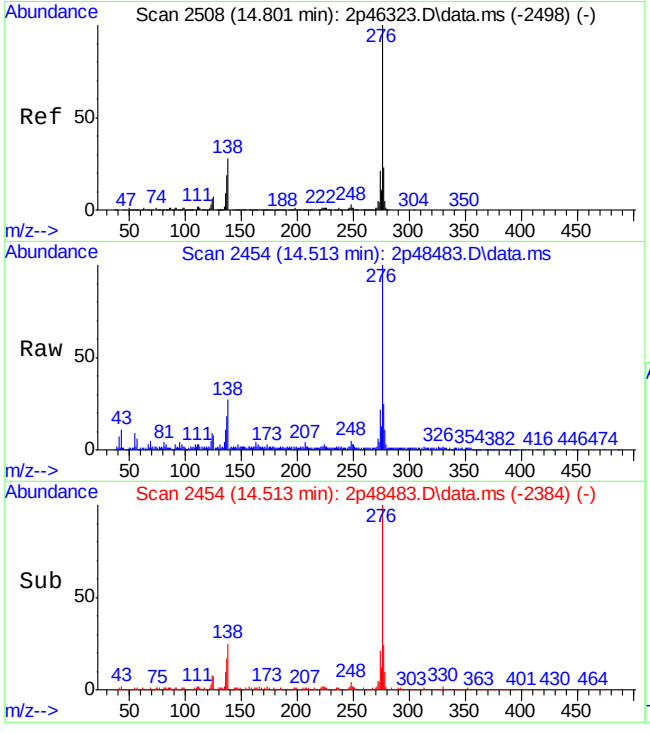


#96
Benzo[a]pyrene
Concen: 23.17 ppm
RT: 13.127 min Scan# 2195
Delta R.T. -0.112 min
Lab File: 2p48483.D
Acq: 11 May 2015 11:11 pm

Tgt Ion:252 Resp: 215211

Ion	Ratio	Lower	Upper
252	100		
253	19.9	0.0	51.8
125	10.0	0.0	45.1

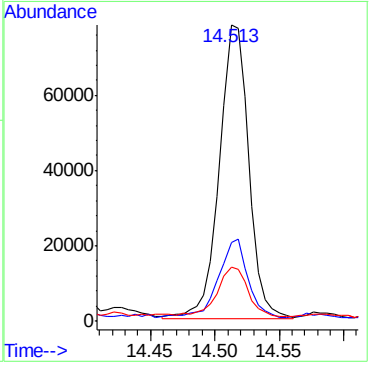




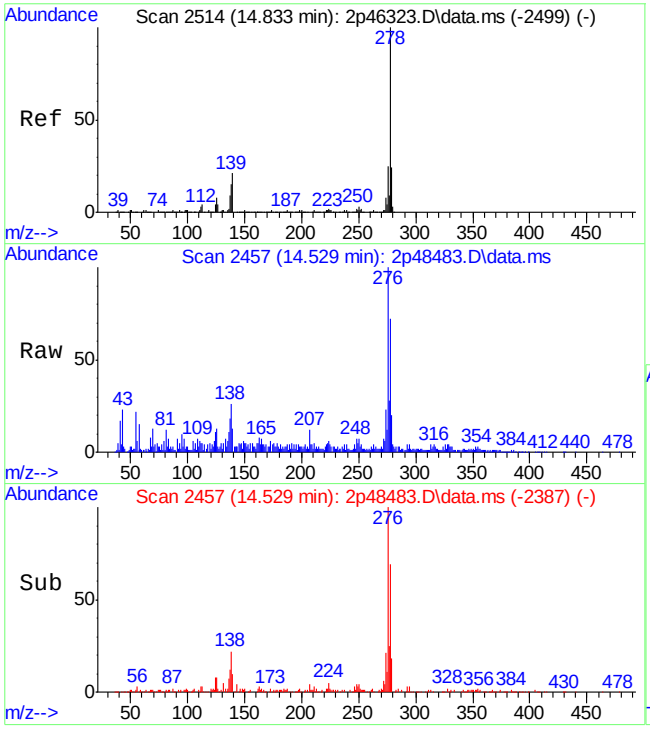
#97
Indeno[1,2,3-cd]pyrene
Concen: 11.58 ppm
RT: 14.513 min Scan# 2454
Delta R.T. -0.128 min
Lab File: 2p48483.D
Acq: 11 May 2015 11:11 pm

Tgt Ion:276 Resp: 123319

Ion	Ratio	Lower	Upper
276	100		
138	25.4	1.0	61.0
137	16.7	0.0	52.7



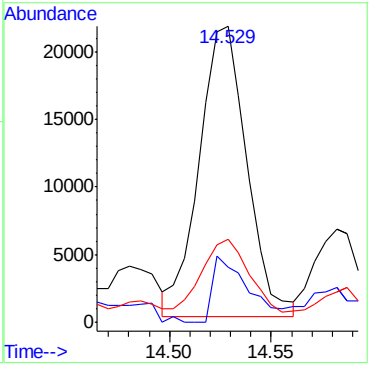
9.1.12
9

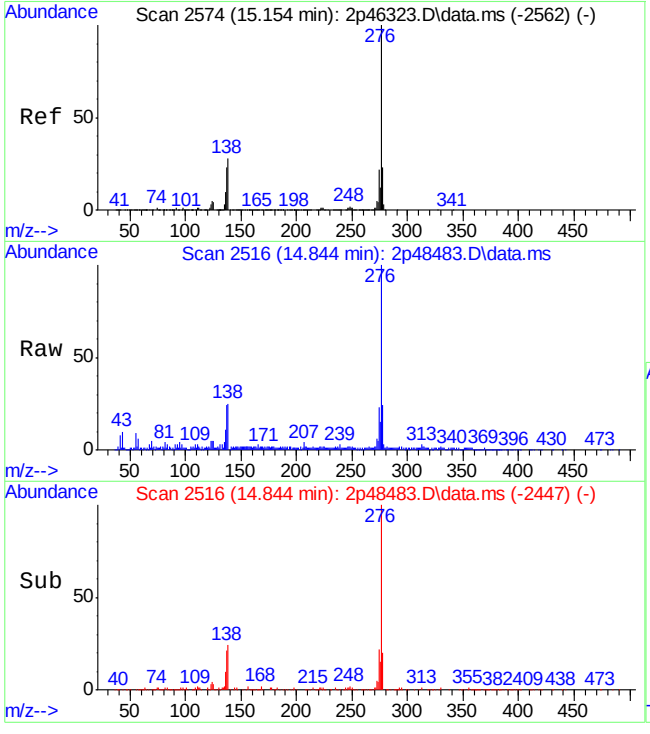


#99
Dibenz[a,h]anthracene
Concen: 4.04 ppm
RT: 14.529 min Scan# 2457
Delta R.T. -0.128 min
Lab File: 2p48483.D
Acq: 11 May 2015 11:11 pm

Tgt Ion:278 Resp: 34962

Ion	Ratio	Lower	Upper
278	100		
139	16.5	0.0	56.2
279	26.1	0.0	54.2

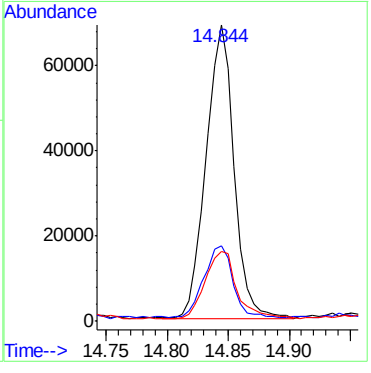




#101
Benzo[g,h,i]perylene
Concen: 12.44 ppm
RT: 14.844 min Scan# 2516
Delta R.T. -0.134 min
Lab File: 2p48483.D
Acq: 11 May 2015 11:11 pm

Tgt Ion:276 Resp: 109334

Ion	Ratio	Lower	Upper
276	100		
138	24.3	3.5	63.5
277	22.8	0.0	53.3



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48474.D
Acq On : 11 May 2015 8:02 pm
Operator : sarad
Sample : jb94209-6
Misc : op83787,e2p2069,31.0
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 11 22:30:39 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

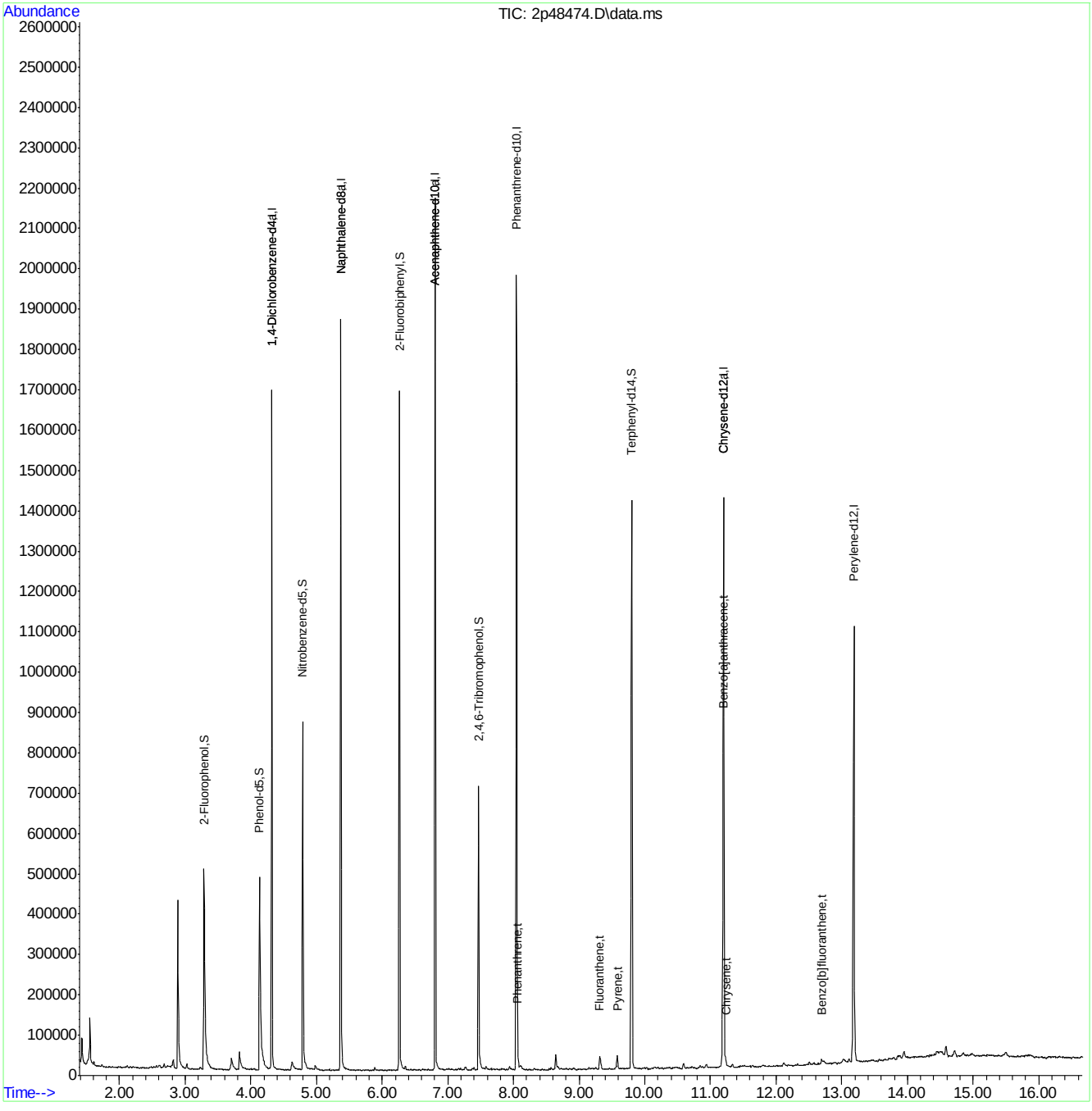
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.318	152	171932	40.00	ppm	-0.09
24) Naphthalene-d8	5.372	136	589263	40.00	ppm	-0.09
47) Acenaphthene-d10	6.805	164	365671	40.00	ppm	-0.09
69) Phenanthrene-d10	8.046	188	593620	40.00	ppm	-0.10
83) Chrysene-d12	11.202	240	558880	40.00	ppm	-0.13
92) Perylene-d12	13.186	264	471209	40.00	ppm	-0.13
102) 1,4-Dichlorobenzene-d4a	4.318	152	171932	40.00	ppm	-0.09
104) Naphthalene-d8a	5.372	136	589263	40.00	ppm	#-0.09
106) Acenaphthene-d10a	6.805	164	364362	40.00	ppm	-0.09
109) Chrysene-d12a	11.202	240	558880	40.00	ppm	-0.13
System Monitoring Compounds						
5) 2-Fluorophenol	3.286	112	158737	31.40	ppm	-0.11
Spiked Amount 50.000	Range 11 - 58		Recovery = 62.80%#			
8) Phenol-d5	4.131	99	187209	29.43	ppm	-0.10
Spiked Amount 50.000	Range 10 - 59		Recovery = 58.86%#			
25) Nitrobenzene-d5	4.789	82	194517	36.43	ppm	-0.09
Spiked Amount 50.000	Range 19 - 61		Recovery = 72.86%#			
51) 2-Fluorobiphenyl	6.265	172	437003	34.91	ppm	-0.08
Spiked Amount 50.000	Range 21 - 58		Recovery = 69.82%#			
73) 2,4,6-Tribromophenol	7.468	330	47883	34.72	ppm	-0.09
Spiked Amount 50.000	Range 12 - 68		Recovery = 69.44%#			
85) Terphenyl-d14	9.800	244	438900	42.22	ppm	-0.12
Spiked Amount 50.000	Range 16 - 65		Recovery = 84.44%#			
Target Compounds						Qvalue
77) Phenanthrene	8.067	178	11500	0.70	ppm	91
81) Fluoranthene	9.313	202	15337	0.78	ppm	96
84) Pyrene	9.581	202	13399	0.79	ppm	93
88) Benzo[a]anthracene	11.191	228	8168	0.51	ppm	97
90) Chrysene	11.234	228	6018	0.42	ppm	86
94) Benzo[b]fluoranthene	12.694	252	5988	0.42	ppm	94

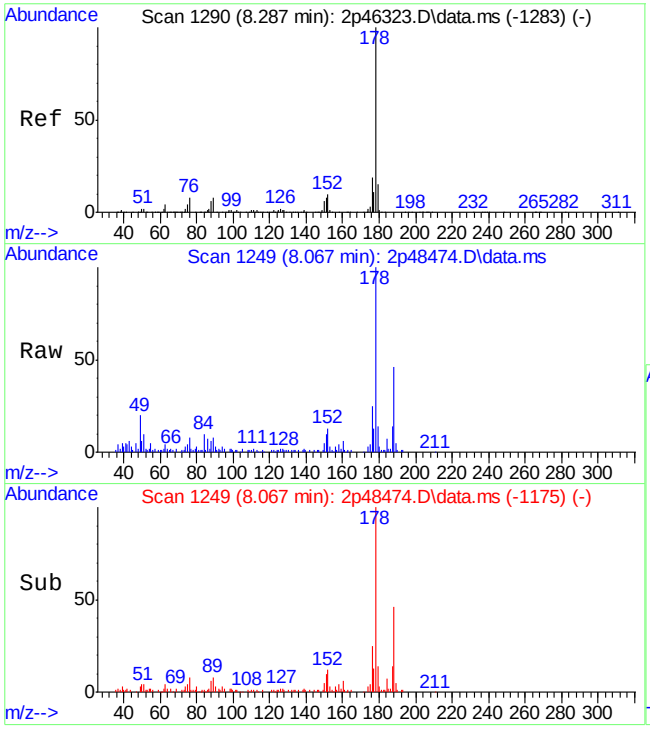
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48474.D
Acq On : 11 May 2015 8:02 pm
Operator : sarad
Sample : jb94209-6
Misc : op83787,e2p2069,31.0
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 11 22:30:39 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

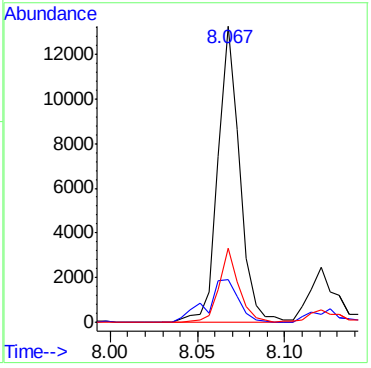


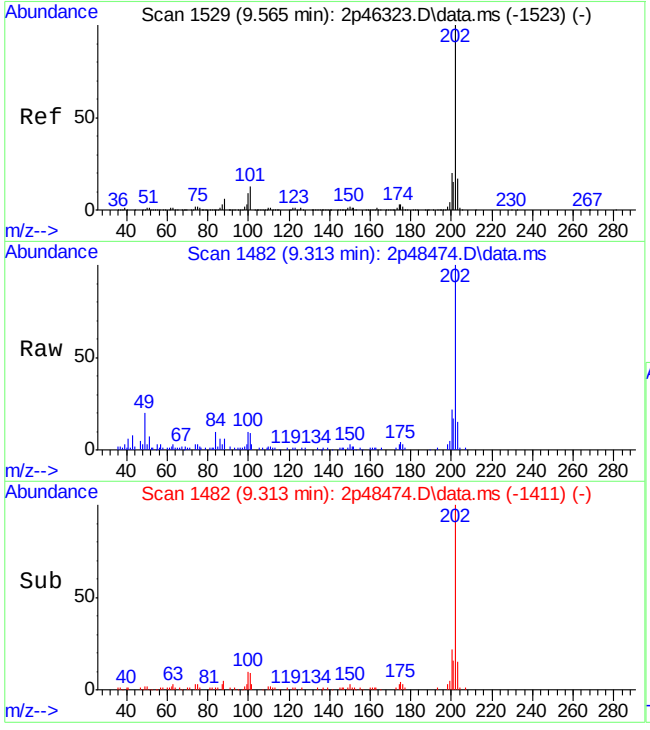


#77
Phenanthrene
Concen: 0.70 ppm
RT: 8.067 min Scan# 1249
Delta R.T. -0.102 min
Lab File: 2p48474.D
Acq: 11 May 2015 8:02 pm

Tgt Ion:178 Resp: 11500

Ion	Ratio	Lower	Upper
178	100		
179	14.4	0.0	45.4
176	24.8	0.0	48.5

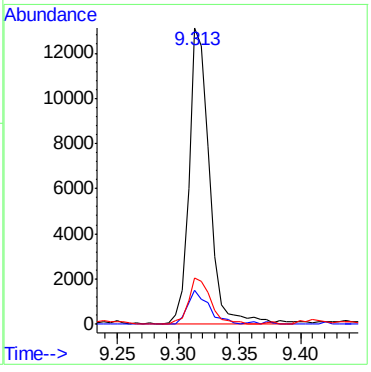




#81
Fluoranthene
Concen: 0.78 ppm
RT: 9.313 min Scan# 1482
Delta R.T. -0.118 min
Lab File: 2p48474.D
Acq: 11 May 2015 8:02 pm

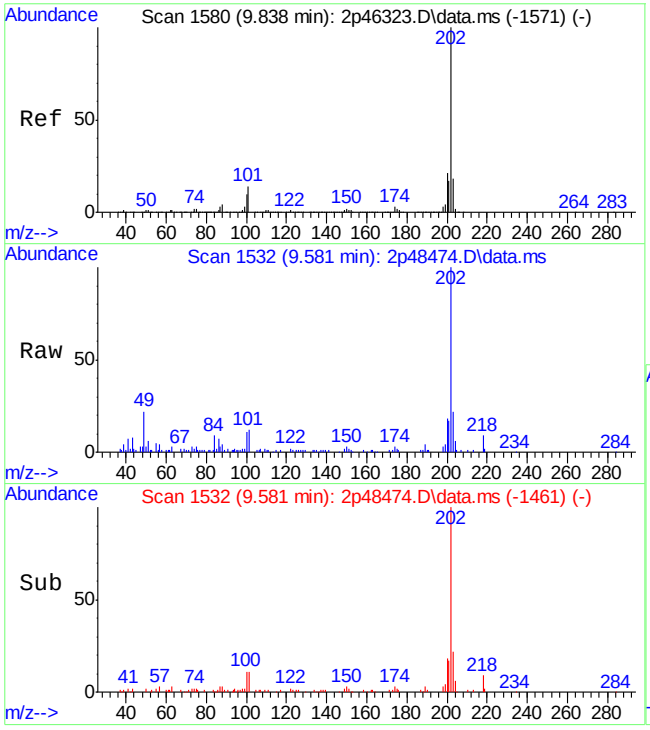
Tgt Ion:202 Resp: 15337

Ion	Ratio	Lower	Upper
202	100		
101	11.6	0.0	43.1
203	15.4	0.0	47.4



9.1.13

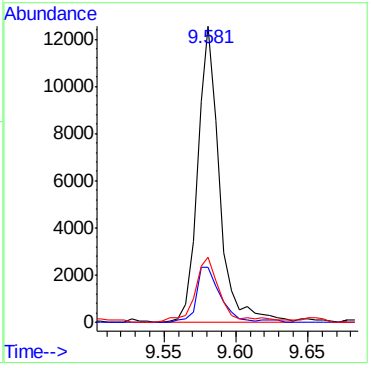
9

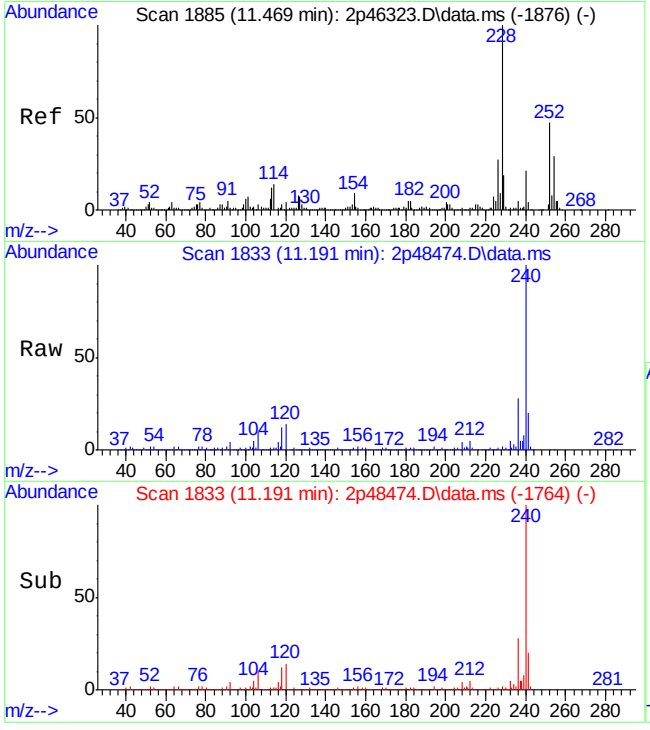


#84
Pyrene
Concen: 0.79 ppm
RT: 9.581 min Scan# 1532
Delta R.T. -0.118 min
Lab File: 2p48474.D
Acq: 11 May 2015 8:02 pm

Tgt Ion:202 Resp: 13399

Ion	Ratio	Lower	Upper
202	100		
200	18.5	0.0	51.0
203	21.7	0.0	47.4

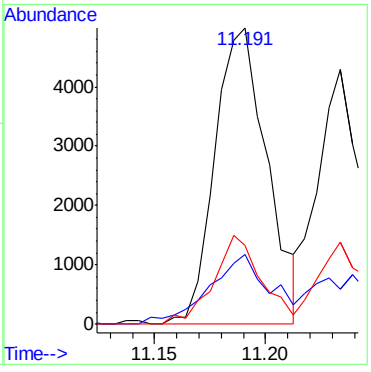




#88
Benzo[a]anthracene
Concen: 0.51 ppm
RT: 11.191 min Scan# 1833
Delta R.T. -0.128 min
Lab File: 2p48474.D
Acq: 11 May 2015 8:02 pm

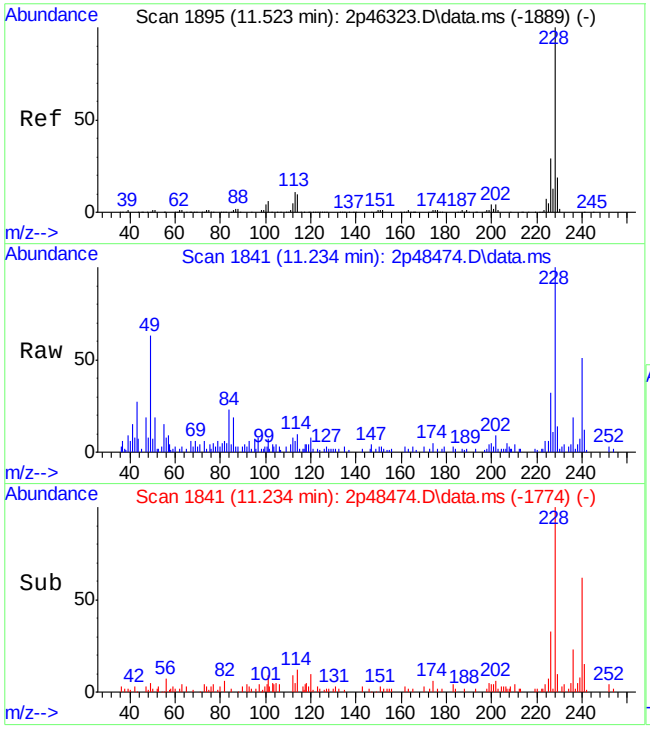
Tgt Ion:228 Resp: 8168

Ion	Ratio	Lower	Upper
228	100		
229	21.9	0.0	50.1
226	28.5	0.0	57.2



9.1.13

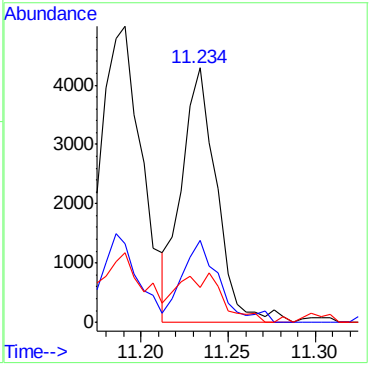
9

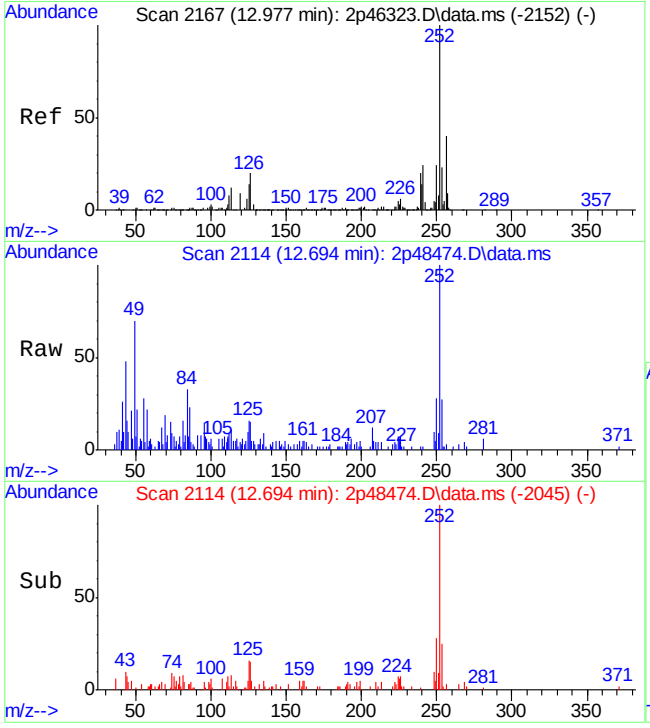


#90
Chrysene
Concen: 0.42 ppm
RT: 11.234 min Scan# 1841
Delta R.T. -0.139 min
Lab File: 2p48474.D
Acq: 11 May 2015 8:02 pm

Tgt Ion:228 Resp: 6018

Ion	Ratio	Lower	Upper
228	100		
226	35.2	0.0	58.8
229	11.6	0.0	49.1

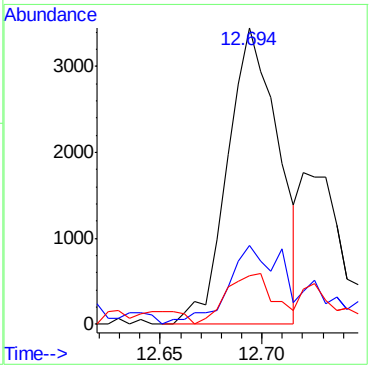




#94
Benzo[b]fluoranthene
Concen: 0.42 ppm
RT: 12.694 min Scan# 2114
Delta R.T. -0.128 min
Lab File: 2p48474.D
Acq: 11 May 2015 8:02 pm

Tgt Ion:252 Resp: 5988

Ion	Ratio	Lower	Upper
252	100		
253	25.6	0.0	52.1
125	14.5	0.0	42.9



9.1.13

9

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48474.D
Acq On : 11 May 2015 8:02 pm
Operator : sarad
Sample : jb94209-6
Misc : op83787,e2p2069,31.0
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: 2p48474.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.424	3	7	19	rVB	65108	77180	4.53%	0.473%
2	1.553	19	31	39	rVV	119295	161209	9.47%	0.988%
3	1.611	39	42	45	rVV4	10464	11208	0.66%	0.069%
4	1.729	62	64	73	rVB6	6598	10081	0.59%	0.062%
5	2.564	215	220	224	rVV7	6125	9272	0.54%	0.057%
6	2.606	224	228	234	rVV7	6725	12320	0.72%	0.075%
7	2.681	234	242	245	rVV2	10523	16305	0.96%	0.100%
8	2.735	247	252	260	rVV10	7336	16945	1.00%	0.104%
9	2.815	260	267	275	rVB	21451	34010	2.00%	0.208%
10	2.890	275	281	301	rBV	416822	393846	23.13%	2.413%
11	3.024	301	306	316	rVB2	13389	20081	1.18%	0.123%
12	3.237	339	346	352	rBV7	5619	9589	0.56%	0.059%
13	3.286	352	355	375	rBV	497281	650225	38.19%	3.983%
14	3.708	423	434	448	rBV	28603	65429	3.84%	0.401%
15	3.826	451	456	475	rVV	45996	84988	4.99%	0.521%
16	3.938	475	477	484	rVV7	2969	5463	0.32%	0.033%
17	4.131	508	513	538	rVV	478626	696209	40.89%	4.265%
18	4.318	542	548	564	rVV	1686504	1133278	66.56%	6.942%
19	4.628	599	606	616	rBV3	21019	46833	2.75%	0.287%
20	4.789	631	636	650	rBV	863020	688801	40.45%	4.220%
21	4.981	668	672	684	rVV5	11850	23840	1.40%	0.146%
22	5.372	737	745	755	rVV	1863948	1350729	79.33%	8.274%
23	5.452	759	760	765	rVV5	6305	6488	0.38%	0.040%
24	5.890	839	842	845	rBV3	7710	5988	0.35%	0.037%
25	6.259	906	911	925	rBV	1683876	1350433	79.31%	8.273%
26	6.350	925	928	933	rVB4	8034	8868	0.52%	0.054%
27	6.612	971	977	984	rVB9	3510	6100	0.36%	0.037%
28	6.805	1007	1013	1027	rBV	2163238	1588767	93.31%	9.733%
29	6.987	1041	1047	1050	rBV8	3257	6350	0.37%	0.039%
30	7.163	1077	1080	1084	rVV5	5104	6279	0.37%	0.038%
31	7.195	1084	1086	1089	rVV3	6467	5564	0.33%	0.034%
32	7.260	1093	1098	1106	rVB3	8644	17296	1.02%	0.106%
33	7.372	1115	1119	1121	rBV5	4886	6201	0.36%	0.038%
34	7.399	1121	1124	1129	rVV2	7241	8958	0.53%	0.055%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48474.D
Acq On : 11 May 2015 8:02 pm
Operator : sarad
Sample : jb94209-6
Misc : op83787,e2p2069,31.0
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

35	7.468	1130	1137	1150	rVV	705841	605738	35.58%	3.711%
36	7.554	1150	1153	1156	rVV5	6051	9087	0.53%	0.056%
37	7.581	1156	1158	1164	rVV4	10848	15262	0.90%	0.093%
38	7.655	1169	1172	1175	rVV5	4484	5858	0.34%	0.036%
39	7.821	1197	1203	1207	rVV9	4759	7821	0.46%	0.048%
40	7.939	1219	1225	1229	rVV5	8934	12639	0.74%	0.077%
41	8.046	1238	1245	1253	rBV	1972602	1652801	97.07%	10.125%
42	8.105	1253	1256	1267	rVV4	11138	25743	1.51%	0.158%
43	8.313	1289	1295	1299	rBV7	4613	7878	0.46%	0.048%
44	8.570	1341	1343	1347	rVV4	6277	6234	0.37%	0.038%
45	8.645	1349	1357	1372	rVV6	37944	69482	4.08%	0.426%
46	8.800	1381	1386	1393	rVV6	4510	8314	0.49%	0.051%
47	8.902	1403	1405	1416	rVB6	4722	9219	0.54%	0.056%
48	9.148	1444	1451	1454	rBV7	5670	8265	0.49%	0.051%
49	9.255	1467	1471	1477	rVV9	5366	7776	0.46%	0.048%
50	9.314	1477	1482	1492	rVB2	33497	52251	3.07%	0.320%
51	9.581	1523	1532	1538	rVV	34752	50331	2.96%	0.308%
52	9.800	1567	1573	1582	rVV	1411205	1471752	86.44%	9.016%
53	10.025	1612	1615	1620	rVB7	5251	7540	0.44%	0.046%
54	10.153	1634	1639	1644	rVV8	4100	6727	0.40%	0.041%
55	10.196	1644	1647	1652	rVB7	4165	5621	0.33%	0.034%
56	10.373	1671	1680	1685	rVB7	4475	9538	0.56%	0.058%
57	10.469	1692	1698	1706	rVB7	3533	8314	0.49%	0.051%
58	10.592	1715	1721	1726	rBV10	13586	18494	1.09%	0.113%
59	10.843	1765	1768	1771	rVV5	6260	6917	0.41%	0.042%
60	10.875	1771	1774	1779	rVV7	3397	5590	0.33%	0.034%
61	10.934	1779	1785	1794	rVV7	9296	17214	1.01%	0.105%
62	11.202	1820	1835	1848	rVV	1413817	1702645	100.00%	10.430%
63	11.335	1854	1860	1864	rVB8	8686	14579	0.86%	0.089%
64	11.453	1879	1882	1886	rBV6	5043	5581	0.33%	0.034%
65	11.522	1890	1895	1899	rVV8	3455	6750	0.40%	0.041%
66	11.646	1912	1918	1924	rBV9	5402	9765	0.57%	0.060%
67	11.795	1939	1946	1952	rBV9	4478	12439	0.73%	0.076%
68	12.116	2001	2006	2012	rVV10	7792	13130	0.77%	0.080%
69	12.298	2034	2040	2043	rBV8	3850	5422	0.32%	0.033%
70	12.325	2043	2045	2053	rVB8	5598	7271	0.43%	0.045%
71	12.507	2075	2079	2084	rBV7	7267	8628	0.51%	0.053%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48474.D
Acq On : 11 May 2015 8:02 pm
Operator : sarad
Sample : jb94209-6
Misc : op83787,e2p2069,31.0
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

72	12.576	2085	2092	2097	rVB7	4568	8275	0.49%	0.051%
73	12.694	2109	2114	2118	rBV2	13196	21182	1.24%	0.130%
74	12.881	2142	2149	2158	rVB2	5796	18888	1.11%	0.116%
75	12.951	2158	2162	2163	rBV4	5604	6303	0.37%	0.039%
76	13.020	2170	2175	2177	rBV6	9268	12957	0.76%	0.079%
77	13.111	2187	2192	2197	rVB3	8534	10114	0.59%	0.062%
78	13.186	2197	2206	2219	rBV	1081648	1435336	84.30%	8.793%
79	13.416	2244	2249	2252	rBV7	3087	6607	0.39%	0.040%
80	13.571	2274	2278	2281	rBV6	5234	6688	0.39%	0.041%
81	13.657	2287	2294	2298	rBV10	5044	11251	0.66%	0.069%
82	13.737	2301	2309	2311	rVV9	4735	8884	0.52%	0.054%
83	13.796	2314	2320	2324	rVB8	5334	9529	0.56%	0.058%
84	13.860	2324	2332	2333	rBV8	10217	16008	0.94%	0.098%
85	13.887	2334	2337	2341	rVB6	7062	9080	0.53%	0.056%
86	13.945	2343	2348	2353	rBV9	16056	26019	1.53%	0.159%
87	14.373	2424	2428	2433	rVV8	5989	13023	0.76%	0.080%
88	14.411	2433	2435	2436	rVV2	7523	5805	0.34%	0.036%
89	14.459	2438	2444	2447	rVV8	13169	30608	1.80%	0.188%
90	14.496	2448	2451	2464	rVV8	13928	53654	3.15%	0.329%
91	14.587	2464	2468	2475	rVV10	25934	43741	2.57%	0.268%
92	14.641	2475	2478	2484	rVV8	4263	6308	0.37%	0.039%
93	14.716	2484	2492	2500	rVV8	15077	34361	2.02%	0.210%
94	14.855	2510	2518	2522	rVV8	9515	22915	1.35%	0.140%
95	14.919	2527	2530	2532	rVV4	5042	5917	0.35%	0.036%
96	14.962	2533	2538	2539	rVV5	7179	8363	0.49%	0.051%
97	14.983	2540	2542	2551	rVB10	7096	16282	0.96%	0.100%
98	15.507	2632	2640	2648	rVB10	10909	30853	1.81%	0.189%
99	15.678	2667	2672	2676	rBV8	4350	5901	0.35%	0.036%
100	15.860	2705	2706	2711	rVB5	5393	5495	0.32%	0.034%

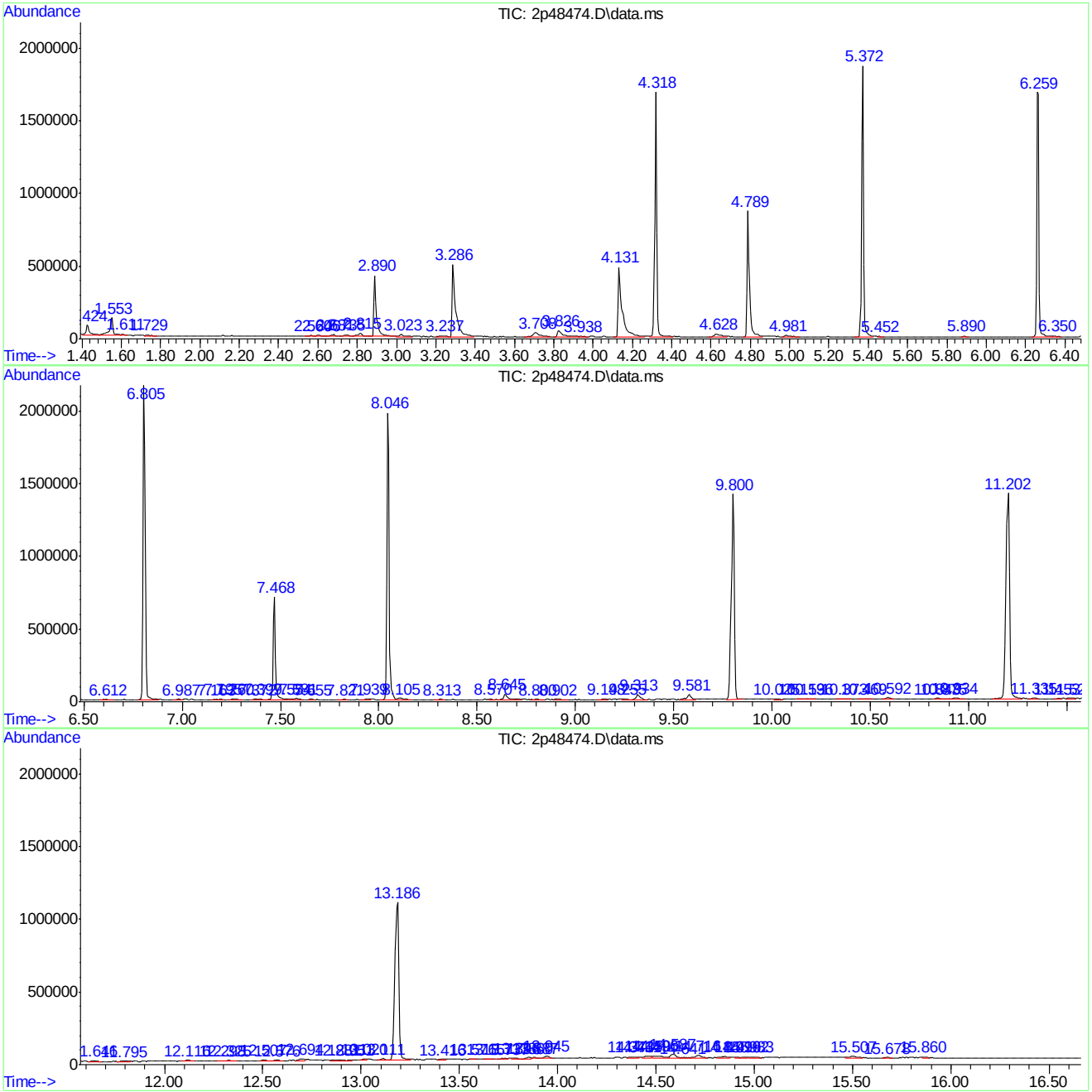
Sum of corrected areas: 16324096

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48474.D
Acq On : 11 May 2015 8:02 pm
Operator : sarad
Sample : jb94209-6
Misc : op83787,e2p2069,31.0
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48474.D
Acq On : 11 May 2015 8:02 pm
Operator : sarad
Sample : jb94209-6
Misc : op83787,e2p2069,31.0
ALS Vial : 8 Sample Multiplier: 1

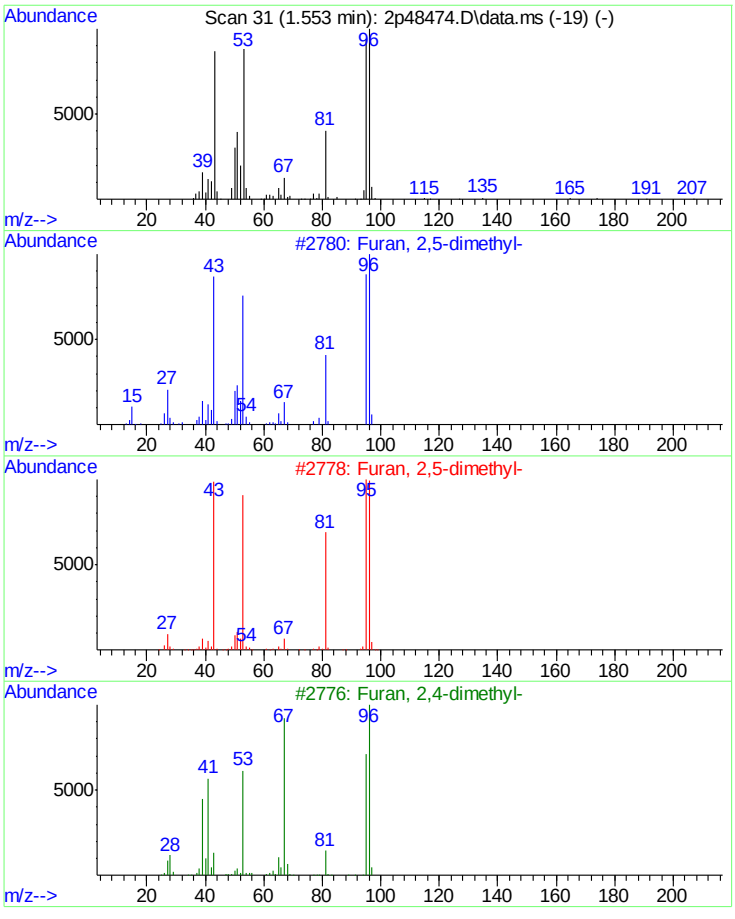
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

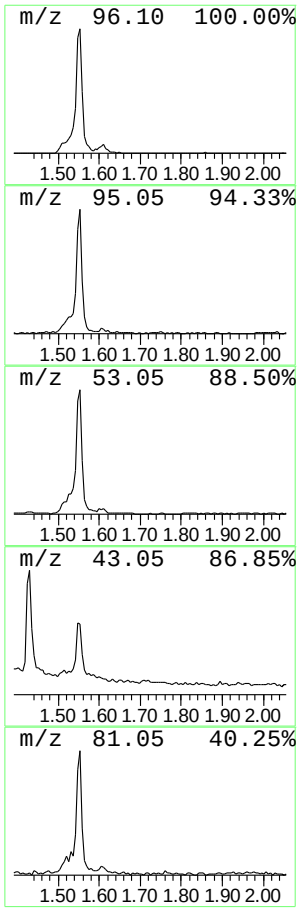
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 1 system artifact Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.553	5.69 ppm	161209	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	91
2	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	59
3	Furan, 2,4-dimethyl-	96	C6H8O	003710-43-8	45
4	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	43
5	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	43





Library Search Compound Report

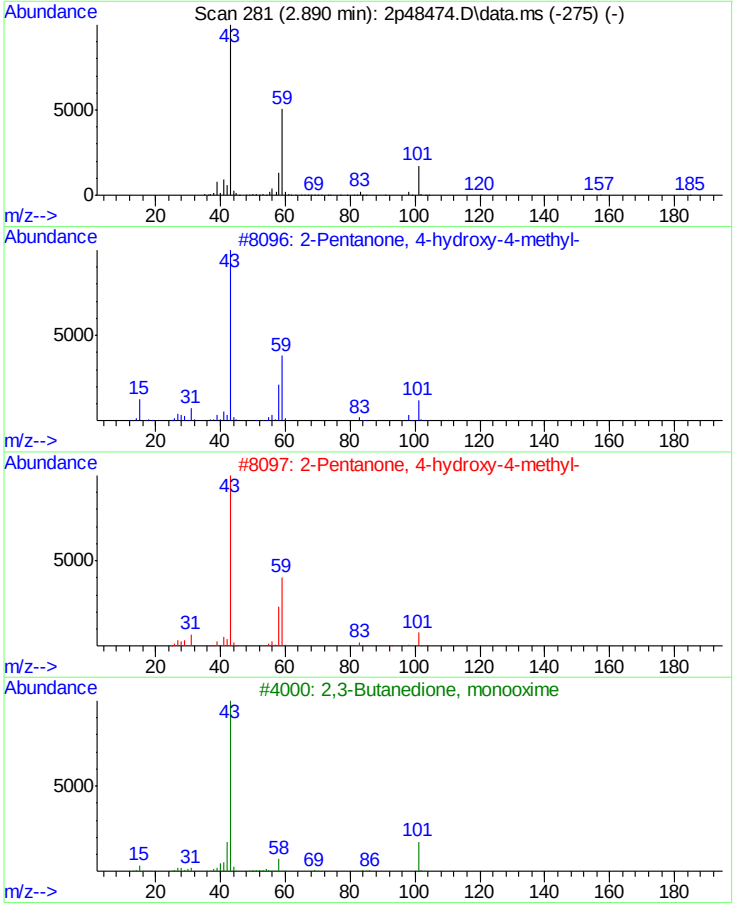
```
Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48474.D
Acq On    : 11 May 2015   8:02 pm
Operator  : sarad
Sample    : jb94209-6
Misc      : op83787,e2p2069,31.0
ALS Vial  : 8   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

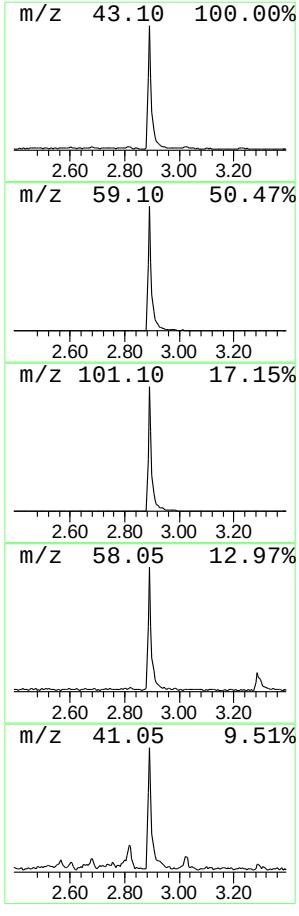
****

Peak Number 2 system artifact/aldol-conde... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.890	13.90 ppm	393846	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	45
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	27
4	Butyl aldoxime, 3-methyl-, syn-	101	C5H11NO	005780-40-5	23
5	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	17





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48474.D
Acq On : 11 May 2015 8:02 pm
Operator : sarad
Sample : jb94209-6
Misc : op83787,e2p2069,31.0
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
system artifact	1.553	5.7	ppm	161209	1	4.318	1133280	40.0
system artifact...	2.890	13.9	ppm	393846	1	4.318	1133280	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48484.D
Acq On : 11 May 2015 11:32 pm
Operator : sarad
Sample : jb94209-7
Misc : op83787,e2p2069,31.7
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 12 11:06:06 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.318	152	156288	40.00 ppm	-0.09
24) Naphthalene-d8	5.372	136	514604	40.00 ppm	-0.09
47) Acenaphthene-d10	6.810	164	303719	40.00 ppm	-0.09
69) Phenanthrene-d10	8.057	188	486572	40.00 ppm	-0.09
83) Chrysene-d12	11.218	240	422383	40.00 ppm	-0.12
92) Perylene-d12	13.207	264	357432	40.00 ppm	-0.11
102) 1,4-Dichlorobenzene-d4a	4.318	152	156288	40.00 ppm	-0.09
104) Naphthalene-d8a	5.372	136	514604	40.00 ppm	#-0.09
106) Acenaphthene-d10a	6.810	164	303719	40.00 ppm	-0.09
109) Chrysene-d12a	11.218	240	422383	40.00 ppm	-0.12
System Monitoring Compounds					
5) 2-Fluorophenol	3.291	112	115713	25.18 ppm	-0.11
Spiked Amount 50.000	Range 11 - 58		Recovery = 50.36%		
8) Phenol-d5	4.147	99	134822	23.32 ppm	-0.08
Spiked Amount 50.000	Range 10 - 59		Recovery = 46.64%		
25) Nitrobenzene-d5	4.794	82	139185	29.85 ppm	-0.08
Spiked Amount 50.000	Range 19 - 61		Recovery = 59.70%		
51) 2-Fluorobiphenyl	6.265	172	311088	29.92 ppm	-0.08
Spiked Amount 50.000	Range 21 - 58		Recovery = 59.84%#		
73) 2,4,6-Tribromophenol	7.474	330	29883	26.43 ppm	-0.08
Spiked Amount 50.000	Range 12 - 68		Recovery = 52.86%		
85) Terphenyl-d14	9.811	244	257709	32.80 ppm	-0.11
Spiked Amount 50.000	Range 16 - 65		Recovery = 65.60%#		
Target Compounds					Qvalue
18) Acetophenone	4.671	105	11182	1.79 ppm	95
38) Naphthalene	5.388	128	13020	0.96 ppm	97
56) Acenaphthylene	6.698	152	28760	2.01 ppm	97
59) Acenaphthene	6.837	153	7045	0.79 ppm	95
62) Dibenzofuran	6.982	168	8900	0.75 ppm	97
66) Fluorene	7.260	166	11463	1.17 ppm	97
77) Phenanthrene	8.073	178	220783	16.50 ppm	97
78) Anthracene	8.121	178	43968	3.25 ppm	97
79) Carbazole	8.303	167	22927	1.75 ppm	93
81) Fluoranthene	9.324	202	387918	24.20 ppm	95
84) Pyrene	9.586	202	333882	25.89 ppm	97
86) Butylbenzylphthalate	10.485	149	6238	1.23 ppm	84
88) Benzo[a]anthracene	11.202	228	139048	11.40 ppm	95
90) Chrysene	11.250	228	130761	12.00 ppm	92
91) bis(2-Ethylhexyl)phtha...	11.346	149	17856	2.59 ppm	98
94) Benzo[b]fluoranthene	12.705	252	170387	15.62 ppm	97
95) Benzo[k]fluoranthene	12.731	252	44444	4.30 ppm	95
96) Benzo[a]pyrene	13.127	252	112163	11.89 ppm	92
97) Indeno[1,2,3-cd]pyrene	14.518	276	77413	7.16 ppm	85
99) Dibenz[a,h]anthracene	14.529	278	19228	2.19 ppm	92
101) Benzo[g,h,i]perylene	14.849	276	73480	8.23 ppm	94
103) Benzaldehyde	3.960	105	4596	1.58 ppm	90

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48484.D
Acq On : 11 May 2015 11:32 pm
Operator : sarad
Sample : jb94209-7
Misc : op83787,e2p2069,31.7
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 12 11:06:06 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

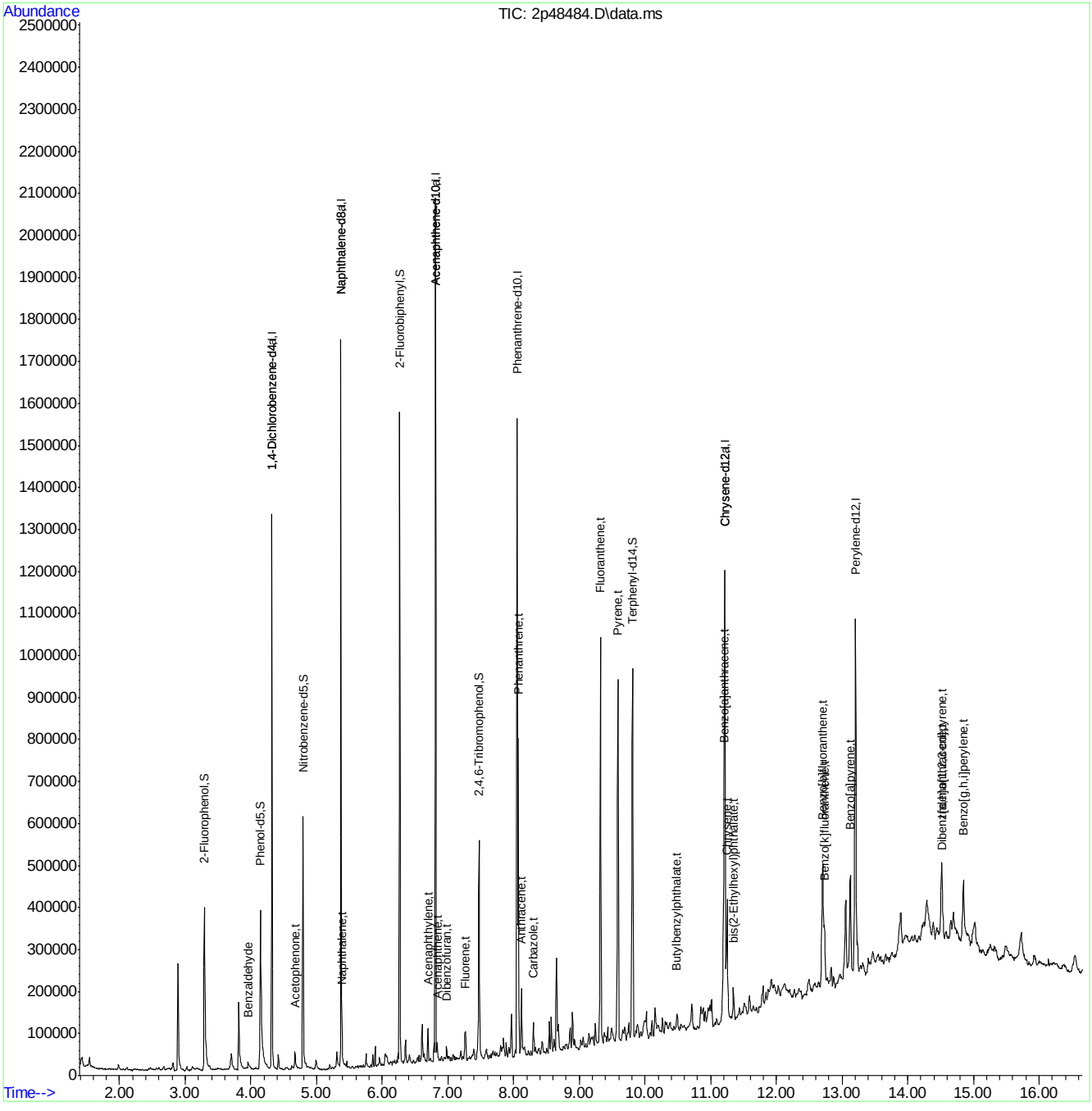
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

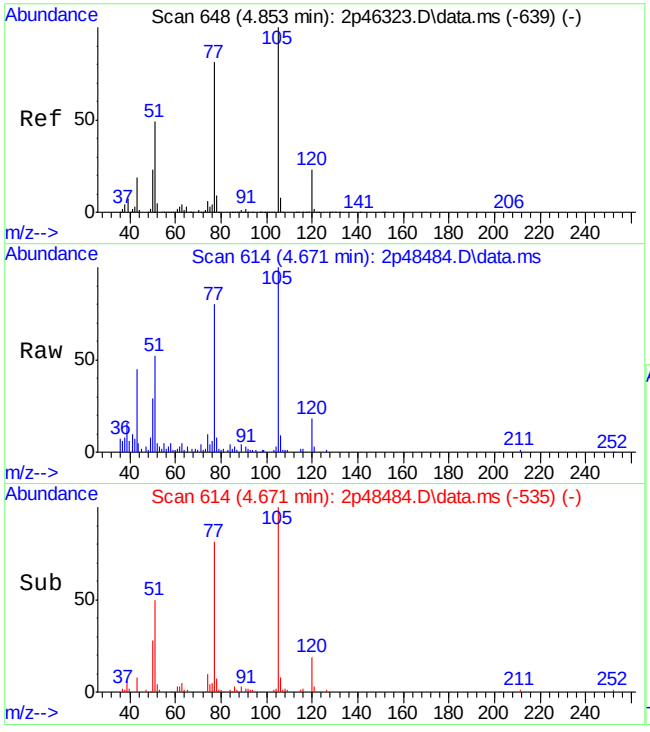
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48484.D
Acq On : 11 May 2015 11:32 pm
Operator : sarad
Sample : jb94209-7
Misc : op83787,e2p2069,31.7
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 12 11:06:06 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

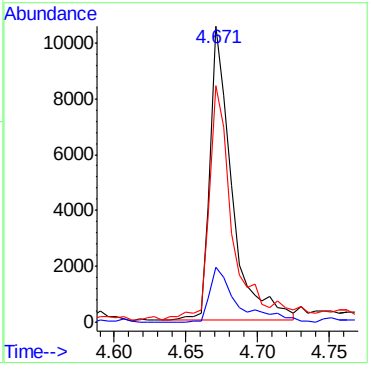


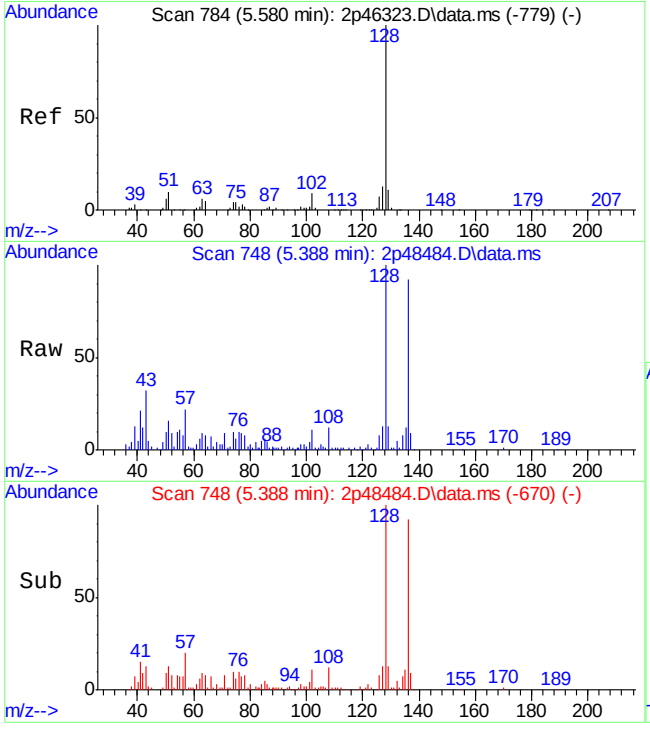


#18
Acetophenone
Concen: 1.79 ppm
RT: 4.671 min Scan# 614
Delta R.T. -0.080 min
Lab File: 2p48484.D
Acq: 11 May 2015 11:32 pm

Tgt Ion:105 Resp: 11182

Ion	Ratio	Lower	Upper
105	100		
120	17.9	0.0	53.1
77	79.0	46.1	106.1

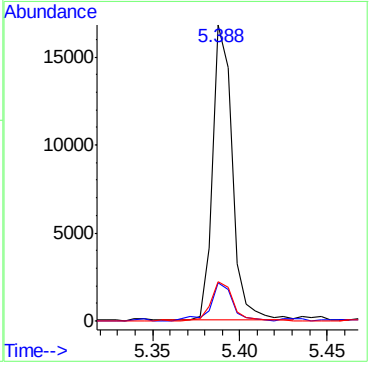




#38
Naphthalene
Concen: 0.96 ppm
RT: 5.388 min Scan# 748
Delta R.T. -0.085 min
Lab File: 2p48484.D
Acq: 11 May 2015 11:32 pm

Tgt Ion:128 Resp: 13020

Ion	Ratio	Lower	Upper
128	100		
129	12.8	0.0	41.0
127	13.0	0.0	43.4



9.1.15

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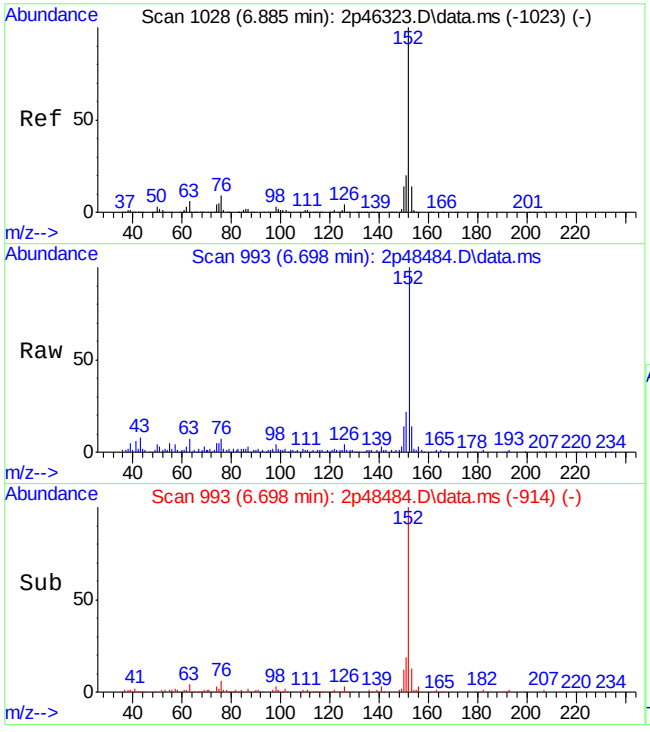
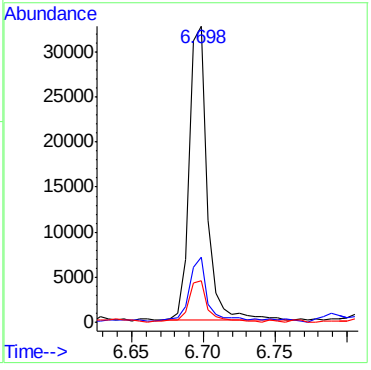
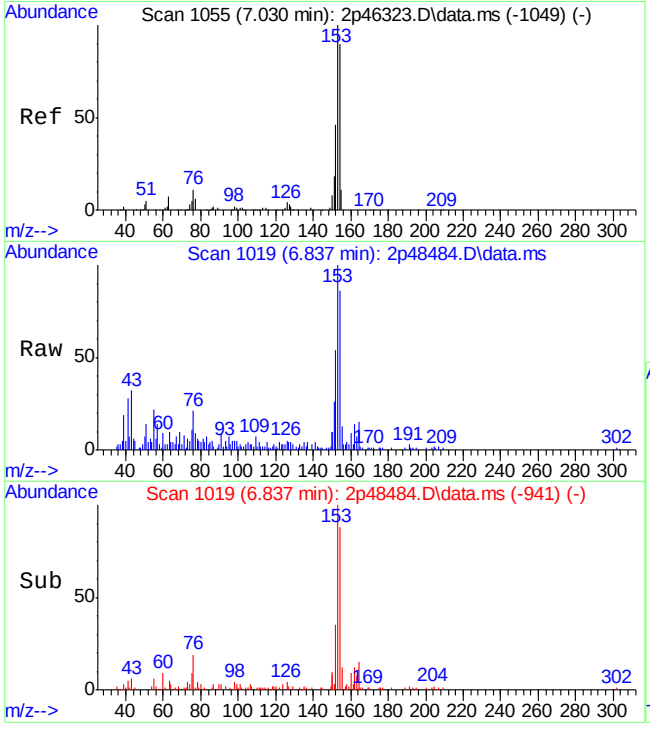


#56
Acenaphthylene
Concen: 2.01 ppm
RT: 6.698 min Scan# 993
Delta R.T. -0.080 min
Lab File: 2p48484.D
Acq: 11 May 2015 11:32 pm

Tgt Ion:152 Resp: 28760

Ion	Ratio	Lower	Upper
152	100		
151	21.6	0.0	49.7
153	13.6	0.0	42.8

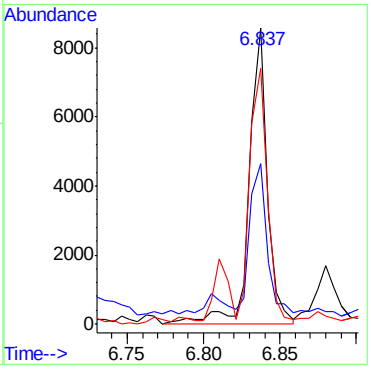




#59
Acenaphthene
Concen: 0.79 ppm
RT: 6.837 min Scan# 1019
Delta R.T. -0.085 min
Lab File: 2p48484.D
Acq: 11 May 2015 11:32 pm

Tgt Ion:153 Resp: 7045

Ion	Ratio	Lower	Upper
153	100		
152	51.3	16.9	76.9
154	85.1	58.3	118.3



9.1.15

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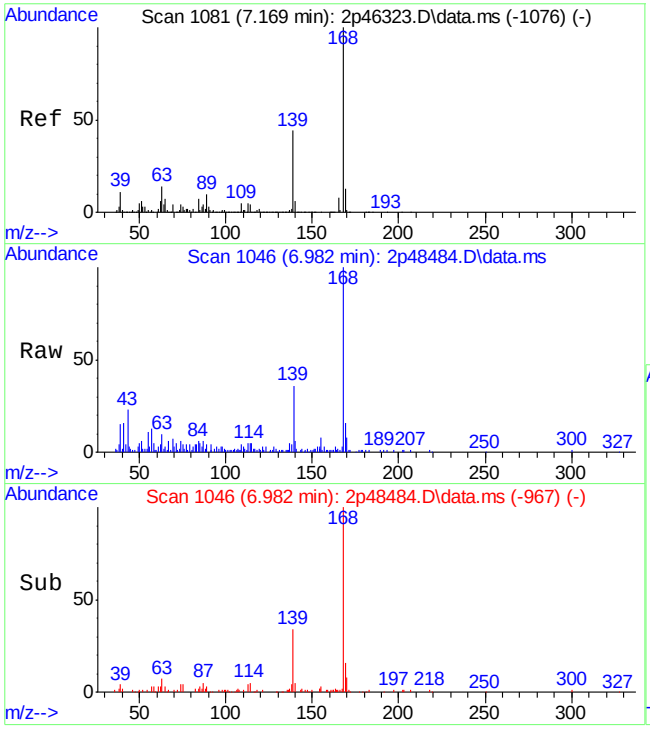
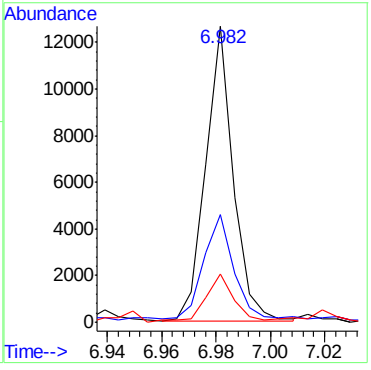
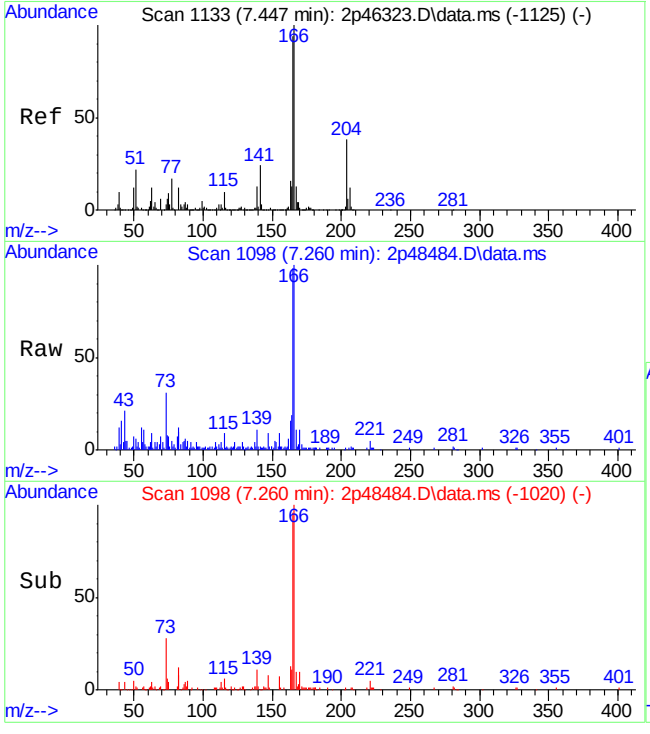


#62
Dibenzofuran
Concen: 0.75 ppm
RT: 6.982 min Scan# 1046
Delta R.T. -0.080 min
Lab File: 2p48484.D
Acq: 11 May 2015 11:32 pm

Tgt Ion:168 Resp: 8900

Ion	Ratio	Lower	Upper
168	100		
139	35.1	3.6	63.6
169	15.3	0.0	43.3

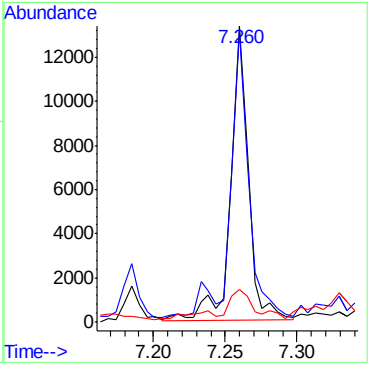




#66
Fluorene
Concen: 1.17 ppm
RT: 7.260 min Scan# 1098
Delta R.T. -0.085 min
Lab File: 2p48484.D
Acq: 11 May 2015 11:32 pm

Tgt Ion:166 Resp: 11463

Ion	Ratio	Lower	Upper
166	100		
165	97.1	65.0	125.0
167	8.9	0.0	43.9



9.1.15

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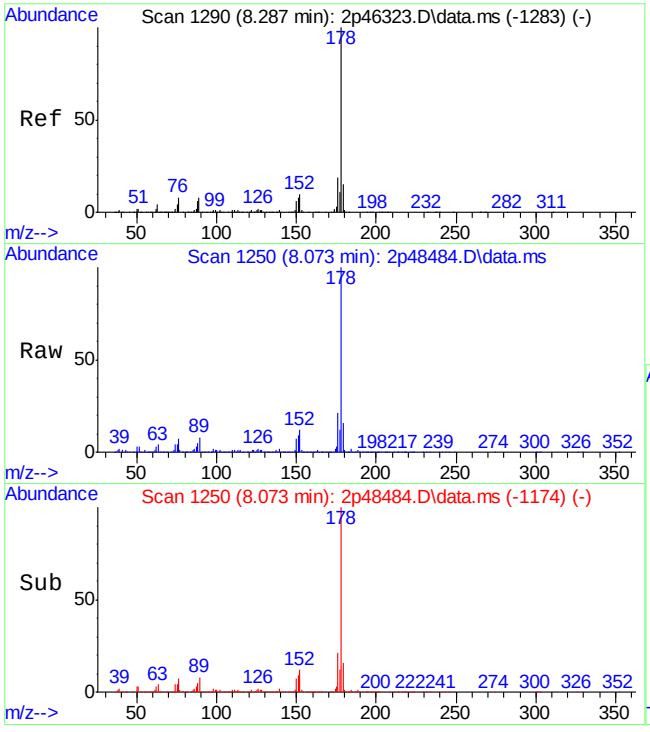
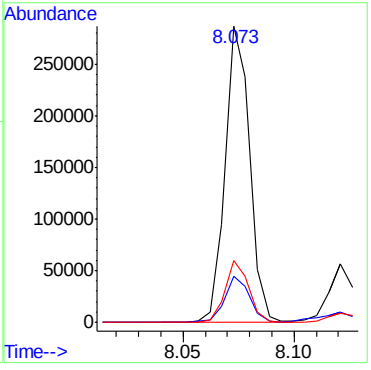
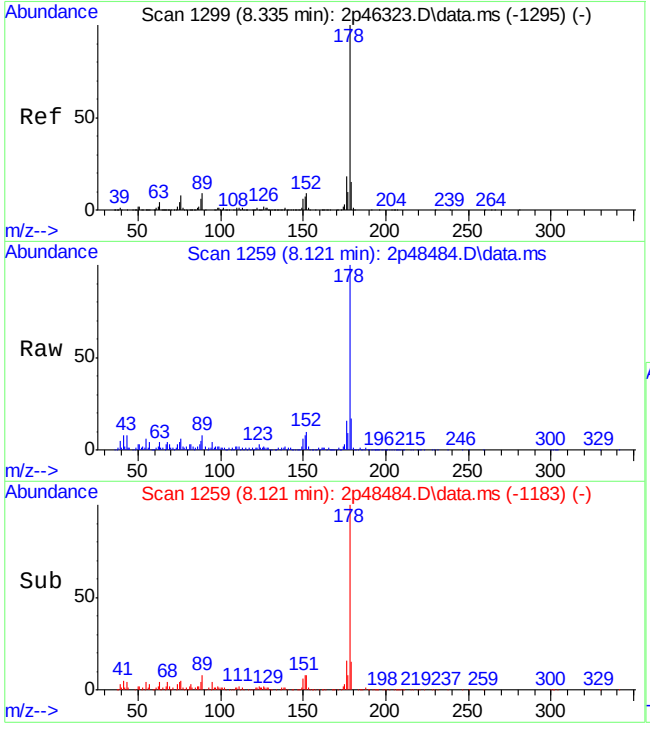


#77
Phenanthrene
Concen: 16.50 ppm
RT: 8.073 min Scan# 1250
Delta R.T. -0.096 min
Lab File: 2p48484.D
Acq: 11 May 2015 11:32 pm

Tgt Ion:178 Resp: 220783

Ion	Ratio	Lower	Upper
178	100		
179	15.4	0.0	45.4
176	20.8	0.0	48.5

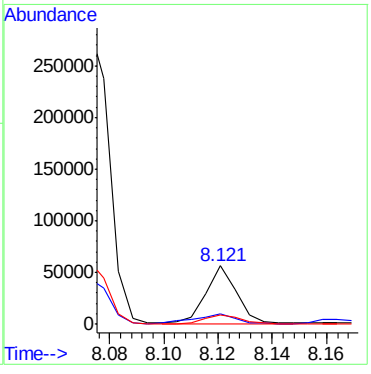


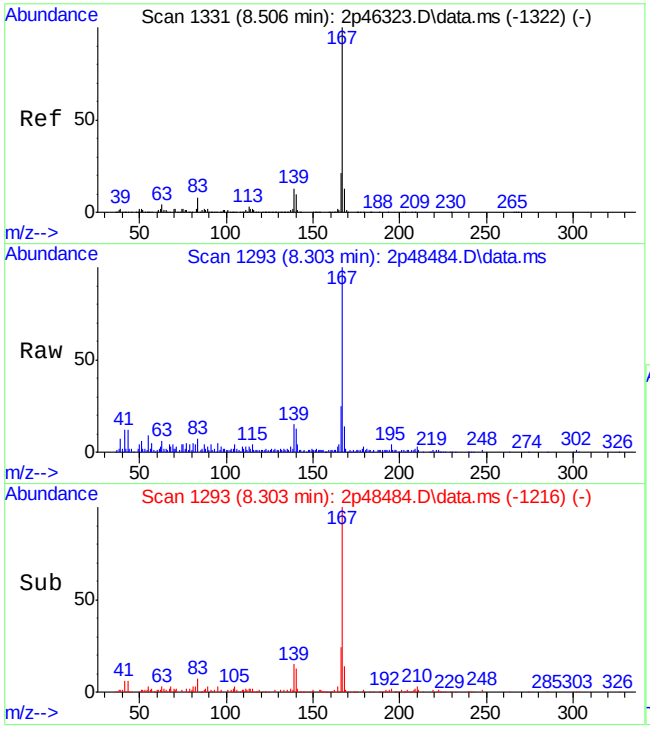


#78
Anthracene
Concen: 3.25 ppm
RT: 8.121 min Scan# 1259
Delta R.T. -0.096 min
Lab File: 2p48484.D
Acq: 11 May 2015 11:32 pm

Tgt Ion:178 Resp: 43968

Ion	Ratio	Lower	Upper
178	100		
179	15.9	0.0	45.2
176	16.0	0.0	48.1

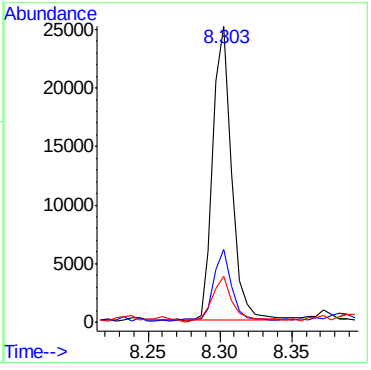


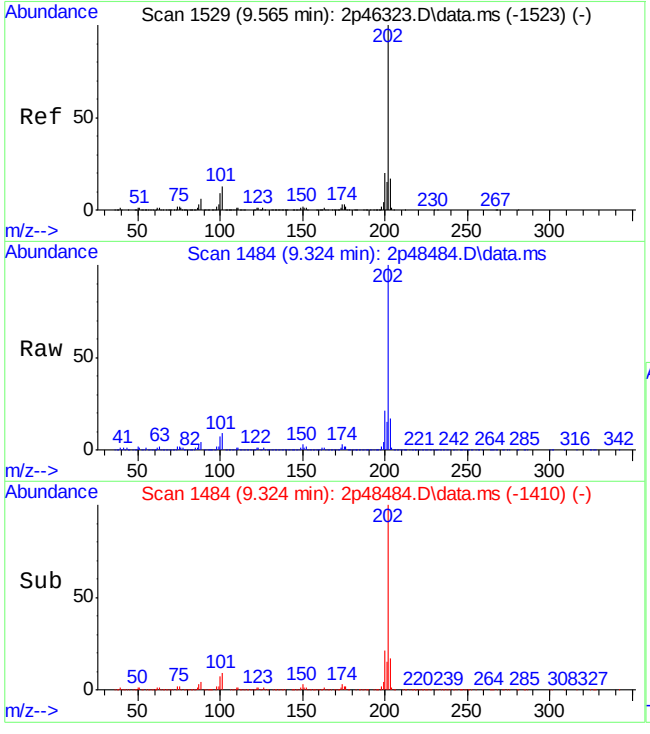


#79
Carbazole
Concen: 1.75 ppm
RT: 8.303 min Scan# 1293
Delta R.T. -0.091 min
Lab File: 2p48484.D
Acq: 11 May 2015 11:32 pm

Tgt Ion:167 Resp: 22927

Ion	Ratio	Lower	Upper
167	100		
166	23.9	0.0	50.6
139	14.2	0.0	41.7

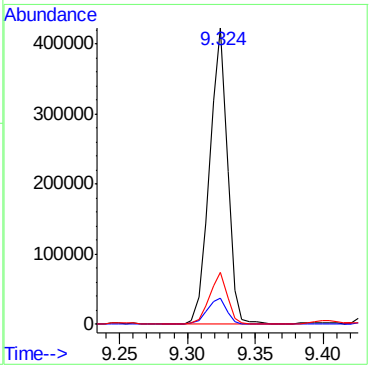


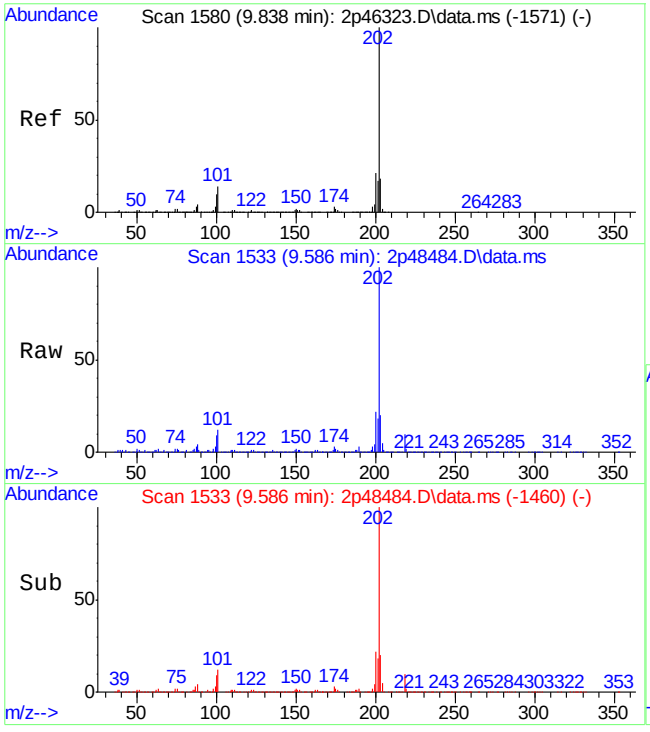


#81
Fluoranthene
Concen: 24.20 ppm
RT: 9.324 min Scan# 1484
Delta R.T. -0.107 min
Lab File: 2p48484.D
Acq: 11 May 2015 11:32 pm

Tgt Ion:202 Resp: 387918

Ion	Ratio	Lower	Upper
202	100		
101	8.7	0.0	43.1
203	17.4	0.0	47.4

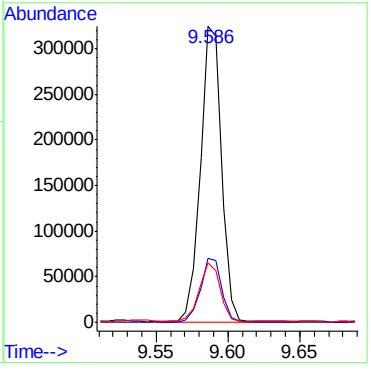


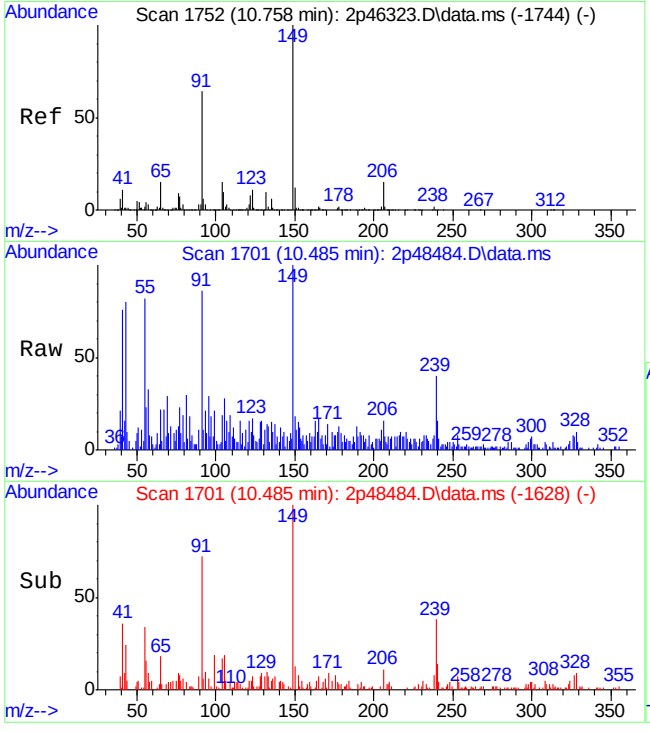


#84
Pyrene
Concen: 25.89 ppm
RT: 9.586 min Scan# 1533
Delta R.T. -0.112 min
Lab File: 2p48484.D
Acq: 11 May 2015 11:32 pm

Tgt Ion:202 Resp: 333882

Ion	Ratio	Lower	Upper
202	100		
200	21.6	0.0	51.0
203	19.9	0.0	47.4

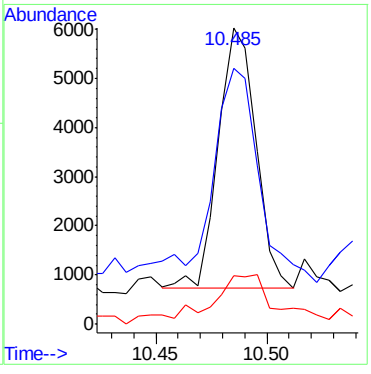




#86
Butylbenzylphthalate
Concen: 1.23 ppm
RT: 10.485 min Scan# 1701
Delta R.T. -0.112 min
Lab File: 2p48484.D
Acq: 11 May 2015 11:32 pm

Tgt Ion:149 Resp: 6238

Ion	Ratio	Lower	Upper
149	100		
91	74.8	32.2	92.2
206	13.7	0.0	49.6



9.1.15

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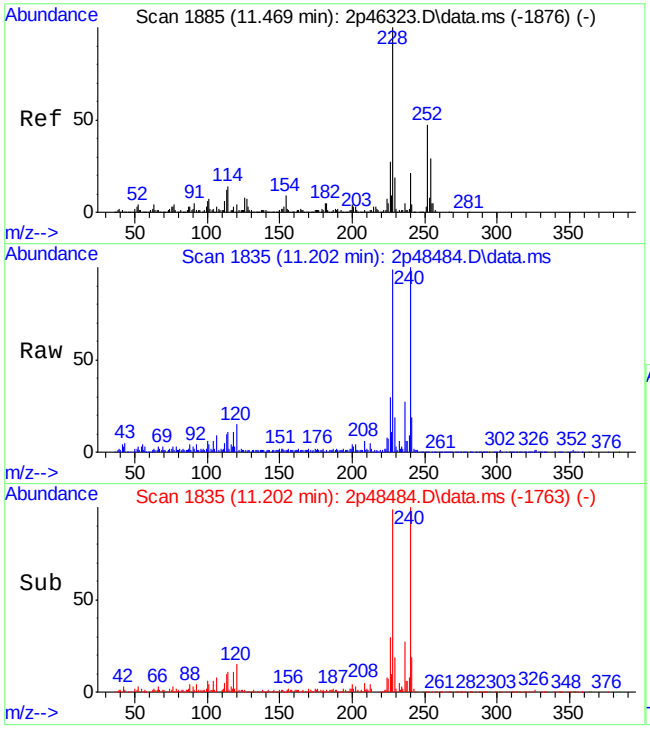
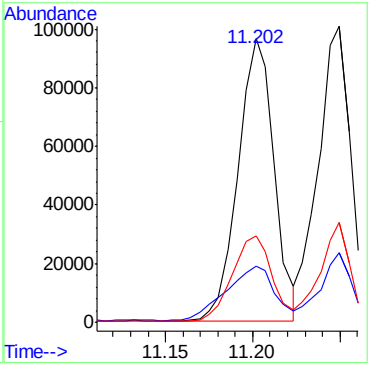
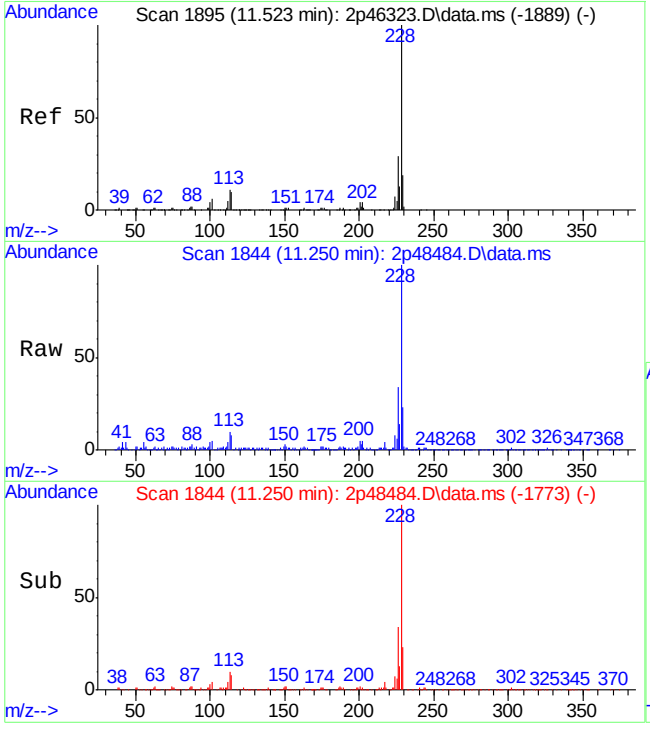


#88
Benzo[a]anthracene
Concen: 11.40 ppm
RT: 11.202 min Scan# 1835
Delta R.T. -0.118 min
Lab File: 2p48484.D
Acq: 11 May 2015 11:32 pm

Tgt Ion:228 Resp: 139048

Ion	Ratio	Lower	Upper
228	100		
229	18.7	0.0	50.1
226	30.3	0.0	57.2

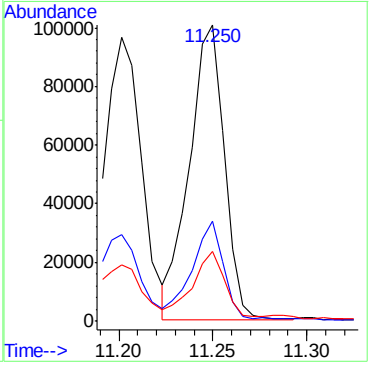


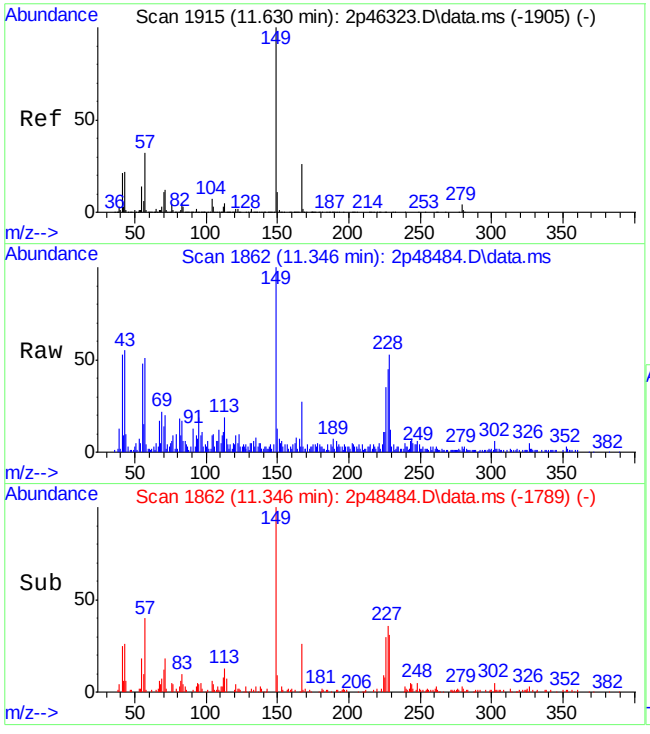


#90
Chrysene
Concen: 12.00 ppm
RT: 11.250 min Scan# 1844
Delta R.T. -0.123 min
Lab File: 2p48484.D
Acq: 11 May 2015 11:32 pm

Tgt Ion:228 Resp: 130761

Ion	Ratio	Lower	Upper
228	100		
226	33.4	0.0	58.8
229	22.2	0.0	49.1

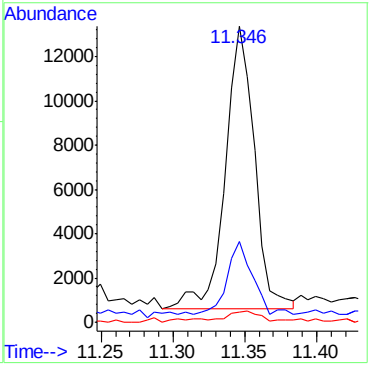


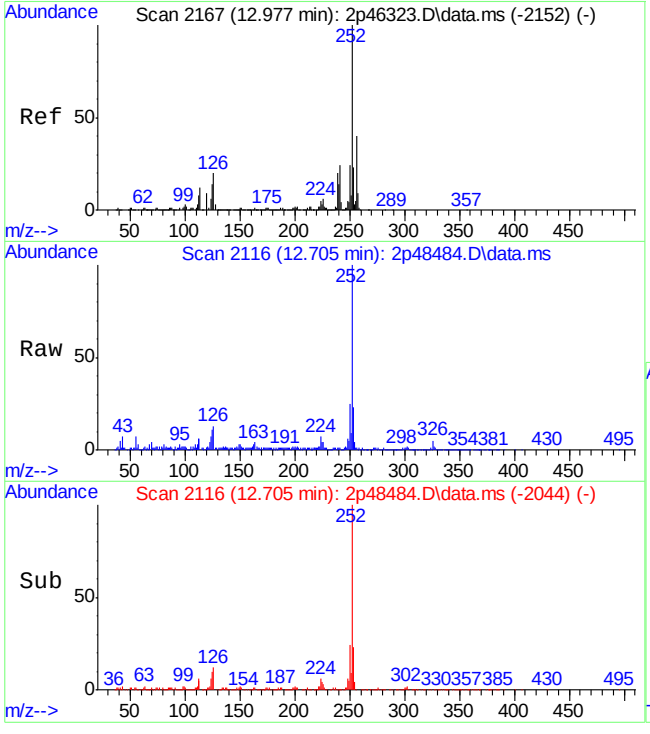


#91
bis(2-Ethylhexyl)phthalate
Concen: 2.59 ppm
RT: 11.346 min Scan# 1862
Delta R.T. -0.112 min
Lab File: 2p48484.D
Acq: 11 May 2015 11:32 pm

Tgt Ion:149 Resp: 17856

Ion	Ratio	Lower	Upper
149	100		
167	25.9	0.0	56.9
279	3.3	0.0	34.4

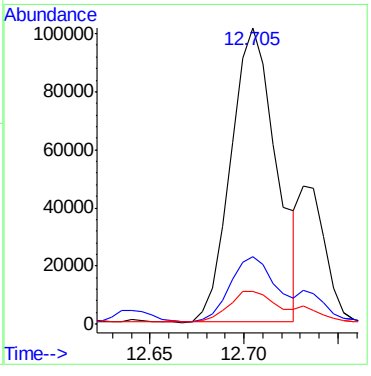




#94
Benzo[b]fluoranthene
Concen: 15.62 ppm
RT: 12.705 min Scan# 2116
Delta R.T. -0.118 min
Lab File: 2p48484.D
Acq: 11 May 2015 11:32 pm

Tgt Ion:252 Resp: 170387

Ion	Ratio	Lower	Upper
252	100		
253	21.8	0.0	52.1
125	10.2	0.0	42.9



9.1.15

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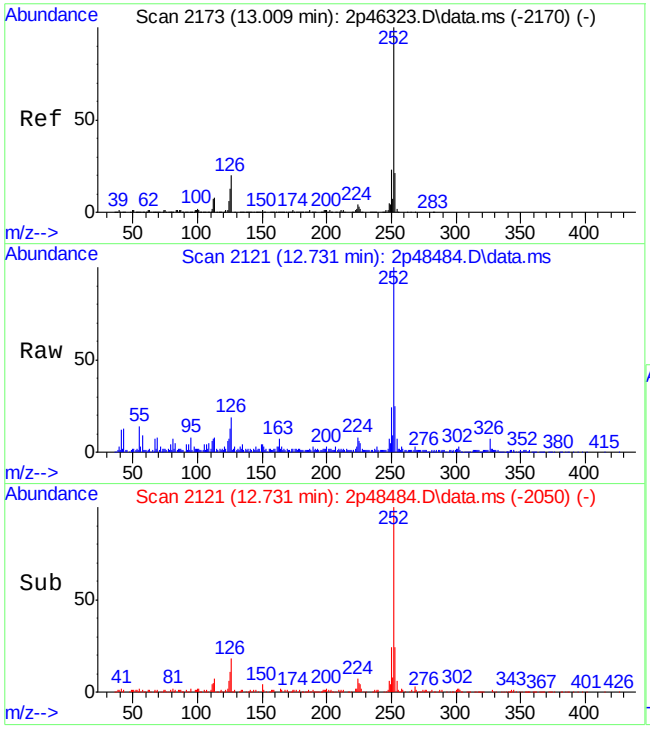
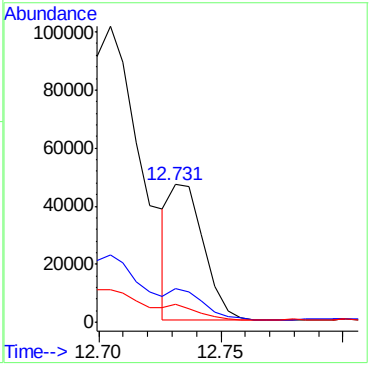
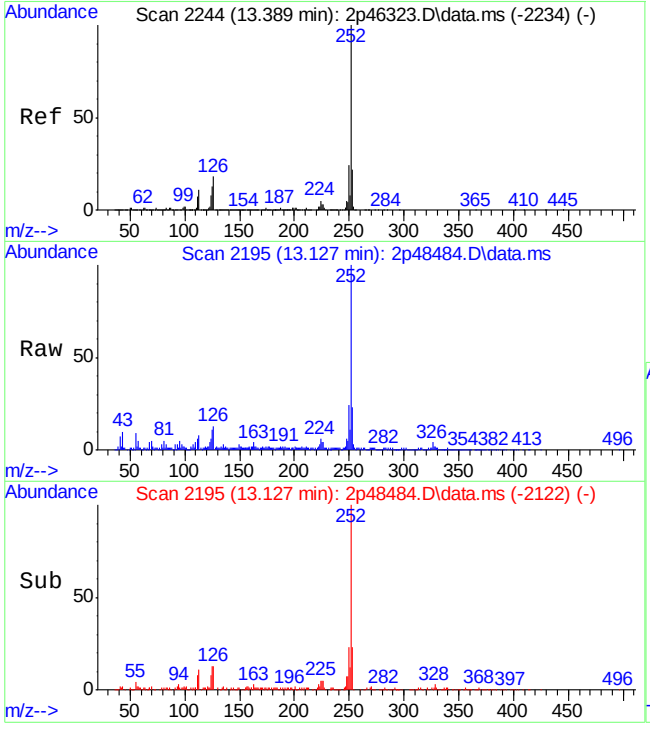


#95
Benzo[k]fluoranthene
Concen: 4.30 ppm
RT: 12.731 min Scan# 2121
Delta R.T. -0.123 min
Lab File: 2p48484.D
Acq: 11 May 2015 11:32 pm

Tgt Ion:252 Resp: 44444

Ion	Ratio	Lower	Upper
252	100		
253	24.4	0.0	51.5
125	11.8	0.0	42.7

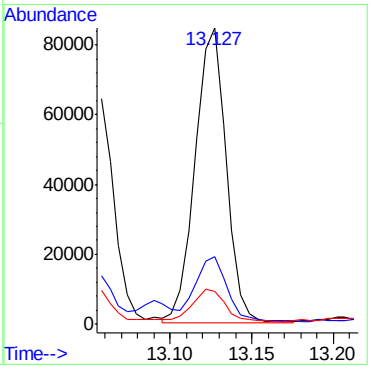


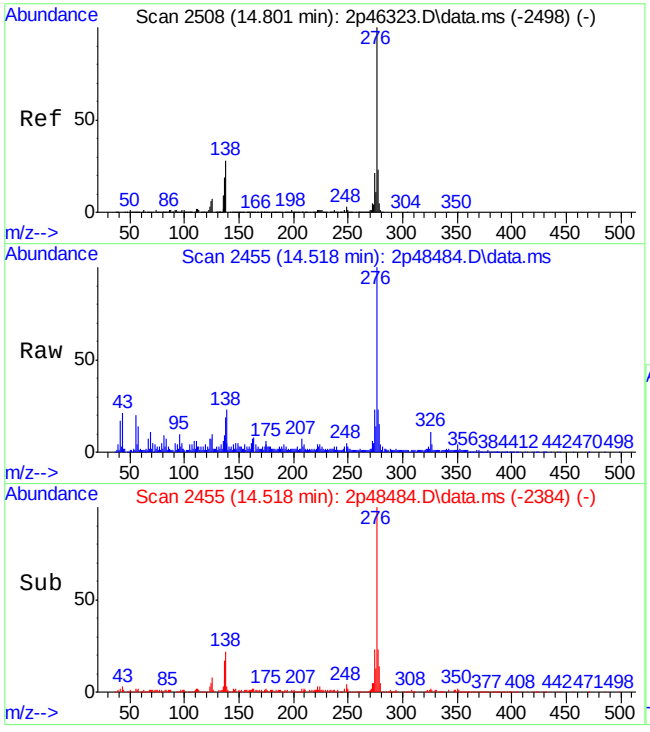


#96
Benzo[a]pyrene
Concen: 11.89 ppm
RT: 13.127 min Scan# 2195
Delta R.T. -0.112 min
Lab File: 2p48484.D
Acq: 11 May 2015 11:32 pm

Tgt Ion:252 Resp: 112163

Ion	Ratio	Lower	Upper
252	100		
253	19.2	0.0	51.8
125	9.9	0.0	45.1

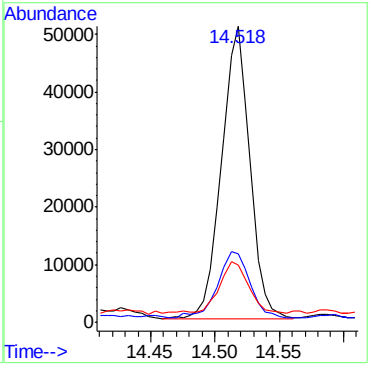


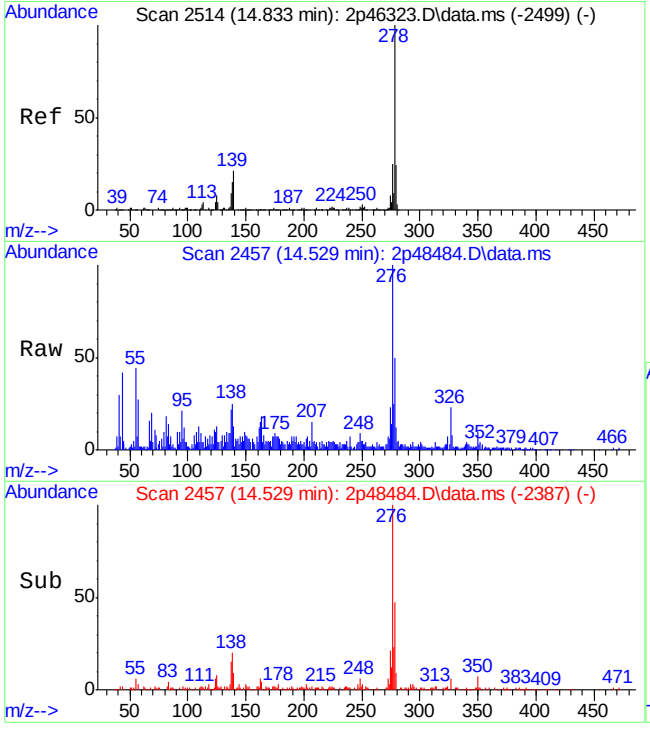


#97
Indeno[1,2,3-cd]pyrene
Concen: 7.16 ppm
RT: 14.518 min Scan# 2455
Delta R.T. -0.123 min
Lab File: 2p48484.D
Acq: 11 May 2015 11:32 pm

Tgt Ion:276 Resp: 77413

Ion	Ratio	Lower	Upper
276	100		
138	21.8	1.0	61.0
137	16.3	0.0	52.7

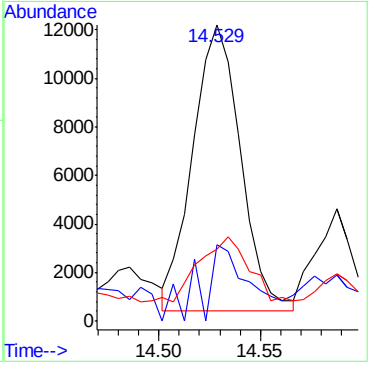




#99
Dibenz[a,h]anthracene
Concen: 2.19 ppm
RT: 14.529 min Scan# 2457
Delta R.T. -0.128 min
Lab File: 2p48484.D
Acq: 11 May 2015 11:32 pm

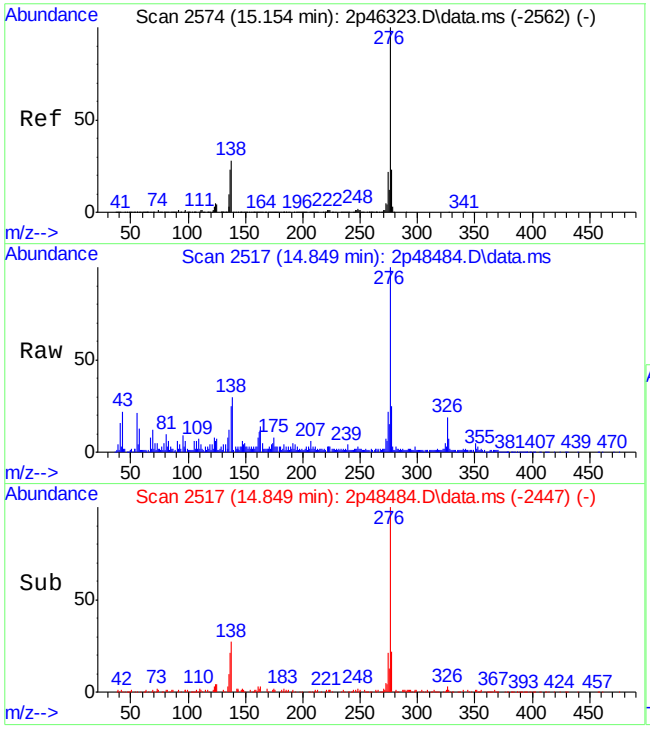
Tgt Ion:278 Resp: 19228

Ion	Ratio	Lower	Upper
278	100		
139	23.5	0.0	56.2
279	18.5	0.0	54.2



9.1.15

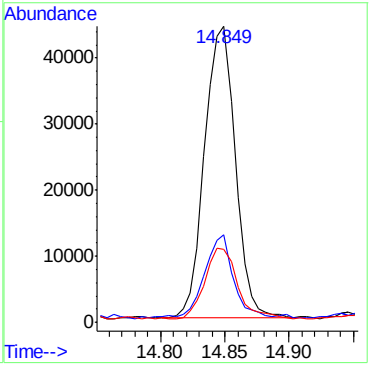
9

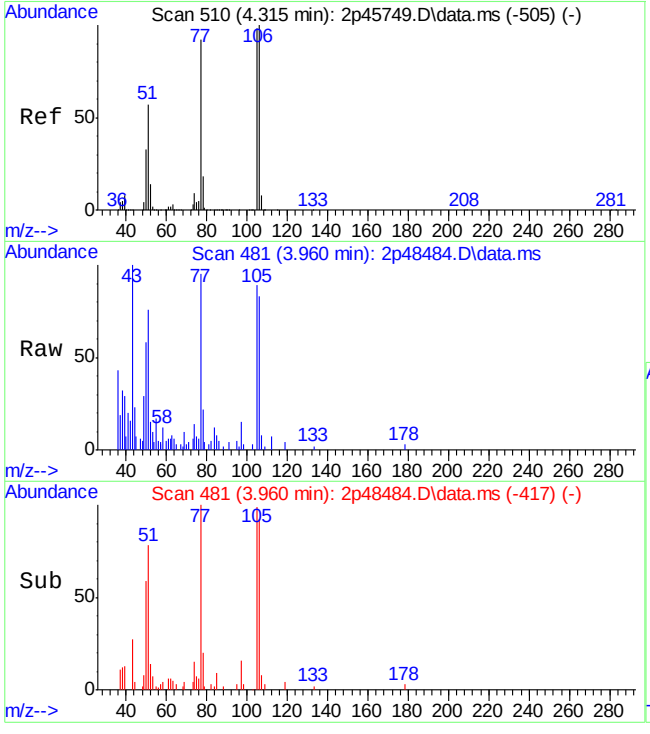


#101
Benzo[g,h,i]perylene
Concen: 8.23 ppm
RT: 14.849 min Scan# 2517
Delta R.T. -0.128 min
Lab File: 2p48484.D
Acq: 11 May 2015 11:32 pm

Tgt Ion:276 Resp: 73480

Ion	Ratio	Lower	Upper
276	100		
138	28.1	3.5	63.5
277	23.4	0.0	53.3

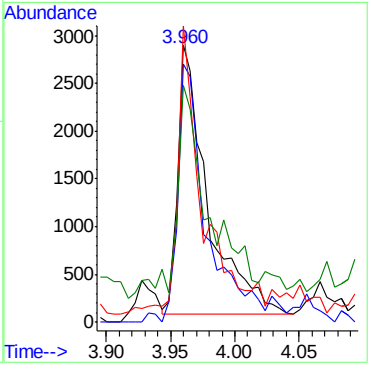




#103
Benzaldehyde
Concen: 1.58 ppm
RT: 3.960 min Scan# 481
Delta R.T. -0.155 min
Lab File: 2p48484.D
Acq: 11 May 2015 11:32 pm

Tgt Ion:105 Resp: 4596

Ion	Ratio	Lower	Upper
105	100		
106	94.1	64.7	124.7
77	103.7	62.5	122.5
51	71.8	26.1	86.1



9.1.15

9

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48484.D
Acq On : 11 May 2015 11:32 pm
Operator : sarad
Sample : jb94209-7
Misc : op83787,e2p2069,31.7
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: 2p48484.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.430	3	8	17	rVB4	22460	43082	2.49%	0.187%
2	1.542	25	29	41	rVV2	24912	34530	1.99%	0.150%
3	2.890	272	281	301	rVB	255391	277756	16.04%	1.207%
4	3.291	350	356	369	rBV	388324	481670	27.81%	2.093%
5	3.703	421	433	450	rVB	38460	71609	4.13%	0.311%
6	3.815	450	454	470	rBV	160712	187026	10.80%	0.813%
7	3.960	471	481	491	rVV3	18340	37527	2.17%	0.163%
8	4.147	510	516	542	rVV2	379360	611356	35.30%	2.657%
9	4.318	542	548	563	rVV	1322378	1017239	58.73%	4.421%
10	4.671	609	614	627	rVV	41513	50893	2.94%	0.221%
11	4.794	627	637	648	rVV	601311	512195	29.57%	2.226%
12	5.307	725	733	741	rBV	40569	62005	3.58%	0.269%
13	5.372	741	745	754	rVV	1734568	1211996	69.98%	5.267%
14	5.751	812	816	828	rVB	32479	37292	2.15%	0.162%
15	6.046	866	871	883	rBV3	27939	69494	4.01%	0.302%
16	6.265	906	912	923	rVB	1552084	975811	56.34%	4.241%
17	6.356	923	929	934	rBV2	58286	54508	3.15%	0.237%
18	6.607	971	976	980	rBV2	88926	85505	4.94%	0.372%
19	6.693	989	992	996	rBV	79132	71773	4.14%	0.312%
20	6.810	1007	1014	1024	rBV	2057168	1386237	80.04%	6.025%
21	7.265	1095	1099	1104	rVB2	70717	90963	5.25%	0.395%
22	7.393	1113	1123	1129	rVB6	26045	46672	2.69%	0.203%
23	7.474	1129	1138	1152	rBV	521258	478219	27.61%	2.078%
24	7.586	1152	1159	1164	rBV3	24581	40464	2.34%	0.176%
25	7.848	1202	1208	1213	rVB4	43962	67413	3.89%	0.293%
26	7.966	1226	1230	1235	rVB3	102116	112976	6.52%	0.491%
27	8.057	1237	1247	1249	rBV	1520490	1424106	82.22%	6.189%
28	8.073	1249	1250	1254	rVB	750220	456886	26.38%	1.986%
29	8.121	1254	1259	1265	rBV	155247	147279	8.50%	0.640%
30	8.303	1288	1293	1297	rBV	78515	92723	5.35%	0.403%
31	8.436	1312	1318	1324	rBV7	29885	52297	3.02%	0.227%
32	8.543	1335	1338	1341	rBV	77146	63866	3.69%	0.278%
33	8.570	1341	1343	1347	rVB	84306	75382	4.35%	0.328%
34	8.618	1347	1352	1355	rBV2	30743	35666	2.06%	0.155%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48484.D
Acq On : 11 May 2015 11:32 pm
Operator : sarad
Sample : jb94209-7
Misc : op83787,e2p2069,31.7
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

35	8.650	1355	1358	1362	rBV2	222000	245746	14.19%	1.068%
36	8.859	1391	1397	1400	rBV	50159	54529	3.15%	0.237%
37	8.896	1400	1404	1407	rVV	85479	76909	4.44%	0.334%
38	9.019	1422	1427	1431	rBV7	23850	35462	2.05%	0.154%
39	9.148	1445	1451	1454	rBV2	33556	46701	2.70%	0.203%
40	9.244	1466	1469	1474	rBV2	52635	62156	3.59%	0.270%
41	9.324	1476	1484	1492	rBV	966083	926609	53.50%	4.027%
42	9.378	1492	1494	1501	rBV6	24899	41929	2.42%	0.182%
43	9.490	1511	1515	1525	rVB3	31350	55850	3.22%	0.243%
44	9.586	1525	1533	1542	rBV	861907	919968	53.12%	3.998%
45	9.661	1542	1547	1550	rBV2	26103	40411	2.33%	0.176%
46	9.693	1550	1553	1557	rVB4	32760	42333	2.44%	0.184%
47	9.752	1557	1564	1568	rBV2	44848	72022	4.16%	0.313%
48	9.811	1568	1575	1580	rBV	879557	928178	53.59%	4.034%
49	9.886	1581	1589	1594	rVB3	32897	67033	3.87%	0.291%
50	9.993	1601	1609	1611	rBV5	37554	76454	4.41%	0.332%
51	10.020	1612	1614	1621	rVB3	65578	75209	4.34%	0.327%
52	10.105	1627	1630	1635	rVB	37704	37273	2.15%	0.162%
53	10.153	1635	1639	1646	rBV2	68051	126096	7.28%	0.548%
54	10.266	1657	1660	1664	rVB	37602	39826	2.30%	0.173%
55	10.383	1677	1682	1688	rVB8	21152	36241	2.09%	0.158%
56	10.490	1696	1702	1708	rVB6	39311	59652	3.44%	0.259%
57	10.715	1735	1744	1748	rVB	59551	95149	5.49%	0.414%
58	10.849	1765	1769	1773	rBV3	50572	88879	5.13%	0.386%
59	10.886	1773	1776	1779	rVV	45661	55011	3.18%	0.239%
60	10.918	1779	1782	1785	rVV2	34127	42960	2.48%	0.187%
61	10.956	1785	1789	1793	rVV4	38776	69661	4.02%	0.303%
62	10.988	1793	1795	1797	rVV	42739	45925	2.65%	0.200%
63	11.014	1797	1800	1806	rVB	64833	74954	4.33%	0.326%
64	11.212	1822	1837	1841	rBV2	1080982	1731990	100.00%	7.527%
65	11.250	1841	1844	1852	rVB2	282485	341350	19.71%	1.484%
66	11.346	1858	1862	1868	rVB2	77593	101457	5.86%	0.441%
67	11.432	1873	1878	1884	rBV4	24021	39568	2.28%	0.172%
68	11.512	1885	1893	1902	rVB6	27487	63517	3.67%	0.276%
69	11.592	1902	1908	1914	rBV2	45165	77251	4.46%	0.336%
70	11.795	1933	1946	1950	rBV2	61969	135213	7.81%	0.588%
71	11.838	1950	1954	1957	rBV2	28628	35823	2.07%	0.156%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48484.D
Acq On : 11 May 2015 11:32 pm
Operator : sarad
Sample : jb94209-7
Misc : op83787,e2p2069,31.7
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

72	11.924	1965	1970	1975	rBV7	26966	41222	2.38%	0.179%
73	12.127	1996	2008	2014	rBV7	28203	104738	6.05%	0.455%
74	12.341	2040	2048	2052	rBV7	18500	39744	2.29%	0.173%
75	12.501	2070	2078	2083	rBV6	38440	92088	5.32%	0.400%
76	12.587	2087	2094	2099	rBV10	21128	52905	3.05%	0.230%
77	12.705	2110	2116	2126	rBV2	292302	665501	38.42%	2.892%
78	12.833	2137	2140	2144	rVB	46206	53640	3.10%	0.233%
79	12.870	2144	2147	2152	rVB3	27783	33646	1.94%	0.146%
80	12.967	2153	2165	2173	rBV3	27018	103730	5.99%	0.451%
81	13.058	2173	2182	2186	rVV	190218	306633	17.70%	1.333%
82	13.127	2189	2195	2202	rVV	239504	347067	20.04%	1.508%
83	13.207	2202	2210	2219	rVB	840605	1217265	70.28%	5.290%
84	13.314	2228	2230	2238	rVB9	28781	52315	3.02%	0.227%
85	13.400	2242	2246	2250	rBV6	33608	51856	2.99%	0.225%
86	13.464	2253	2258	2267	rVB6	28612	75841	4.38%	0.330%
87	13.897	2328	2339	2344	rBV3	92571	237566	13.72%	1.032%
88	14.218	2395	2399	2401	rBV4	30224	38960	2.25%	0.169%
89	14.288	2407	2412	2425	rVV4	88198	275825	15.93%	1.199%
90	14.389	2427	2431	2436	rVB7	42555	68095	3.93%	0.296%
91	14.443	2437	2441	2446	rBV8	22242	39470	2.28%	0.172%
92	14.518	2449	2455	2463	rVB2	180078	308241	17.80%	1.340%
93	14.657	2477	2481	2484	rBV4	34332	51531	2.98%	0.224%
94	14.694	2485	2488	2497	rVB8	51617	86537	5.00%	0.376%
95	14.849	2510	2517	2528	rBV	143651	285511	16.48%	1.241%
96	15.021	2540	2549	2567	rVB	73255	292520	16.89%	1.271%
97	15.486	2632	2636	2648	rBV	26867	83756	4.84%	0.364%
98	15.727	2674	2681	2700	rVB	79670	275218	15.89%	1.196%
99	15.930	2714	2719	2726	rVB	24887	56098	3.24%	0.244%
100	16.550	2825	2835	2847	rVB5	41040	142452	8.22%	0.619%

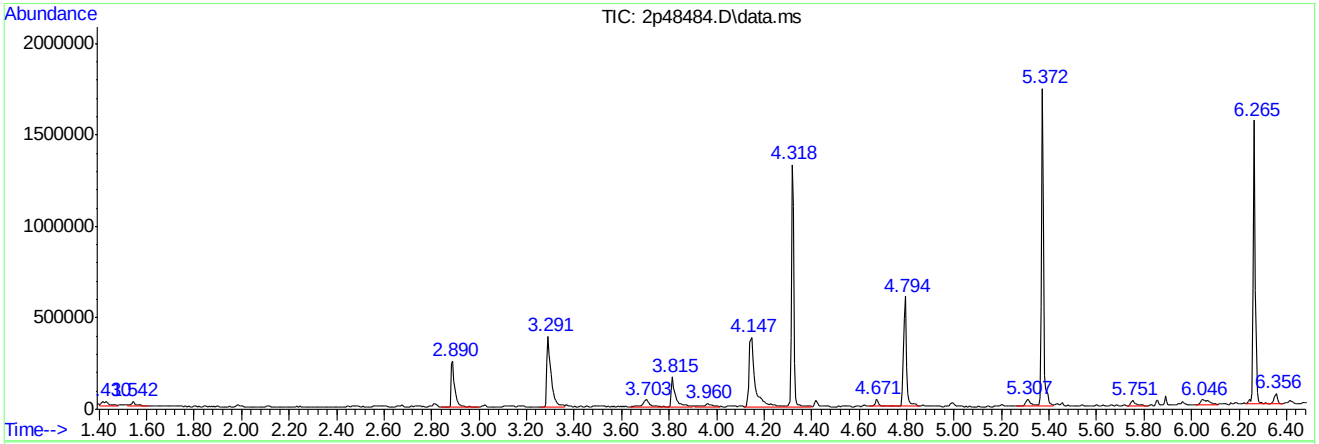
Sum of corrected areas: 23009682

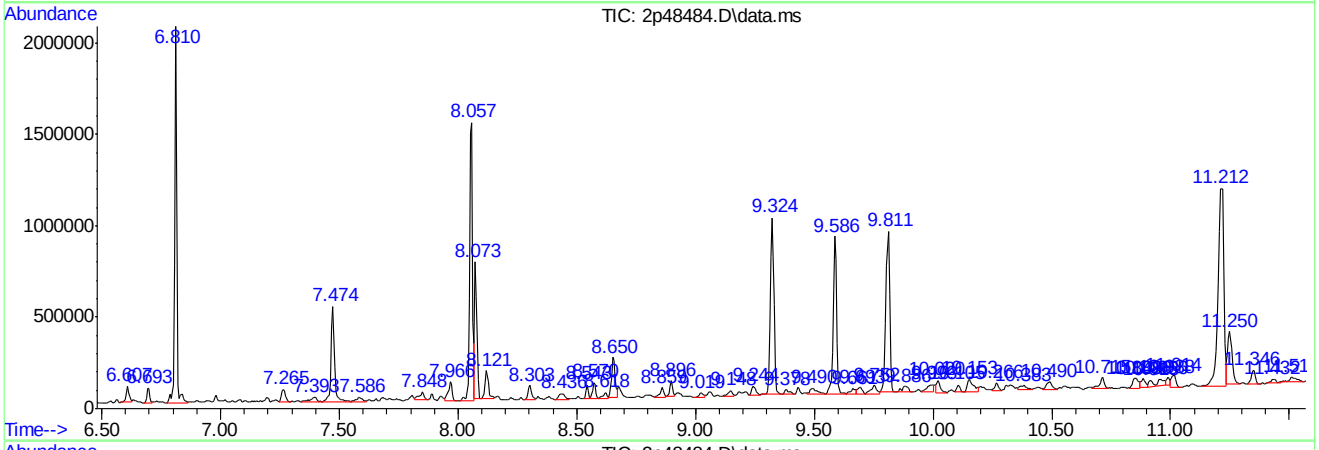
LSC Report - Integrated Chromatogram

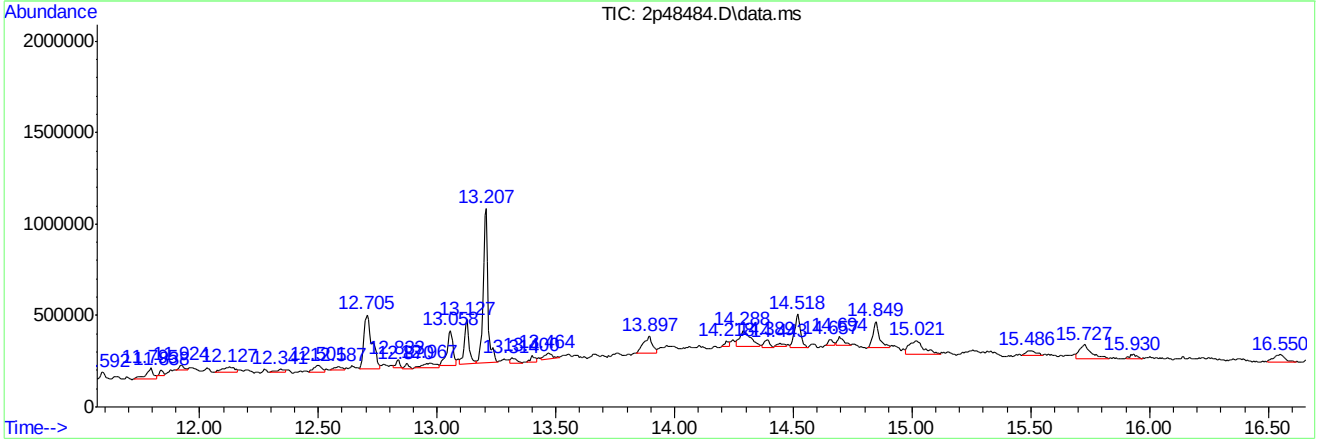
Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48484.D
Acq On : 11 May 2015 11:32 pm
Operator : sarad
Sample : jb94209-7
Misc : op83787,e2p2069,31.7
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p







Library Search Compound Report

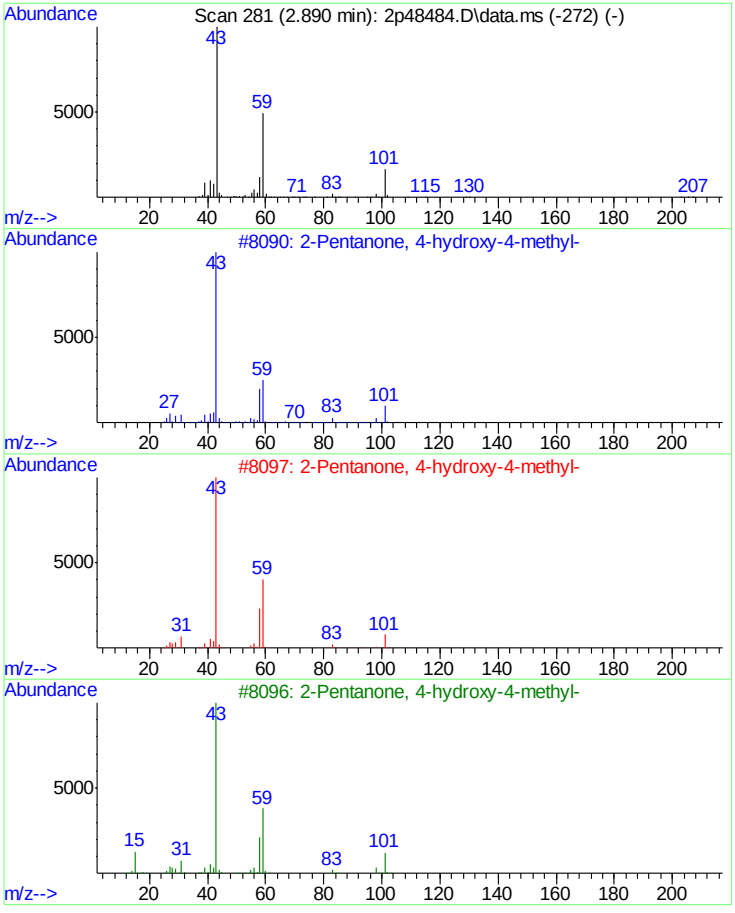
```
Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48484.D
Acq On    : 11 May 2015  11:32 pm
Operator  : sarad
Sample    : jb94209-7
Misc      : op83787,e2p2069,31.7
ALS Vial  : 18   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

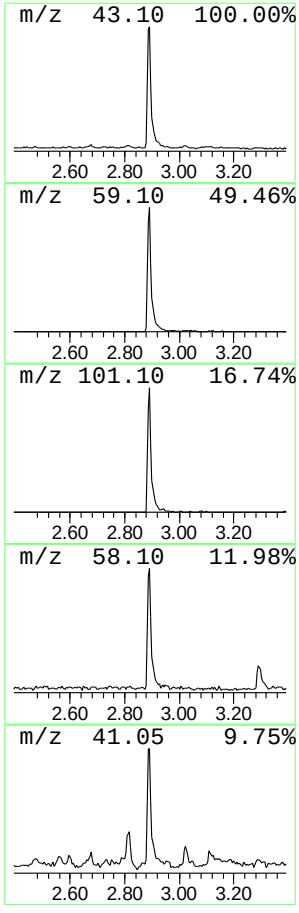
****

Peak Number 1 system artifact/aldol-conde... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.890	10.92 ppm	277756	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
4	t-Butyl nitrite	103	C4H9NO2	000540-80-7	39
5	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	38





Library Search Compound Report

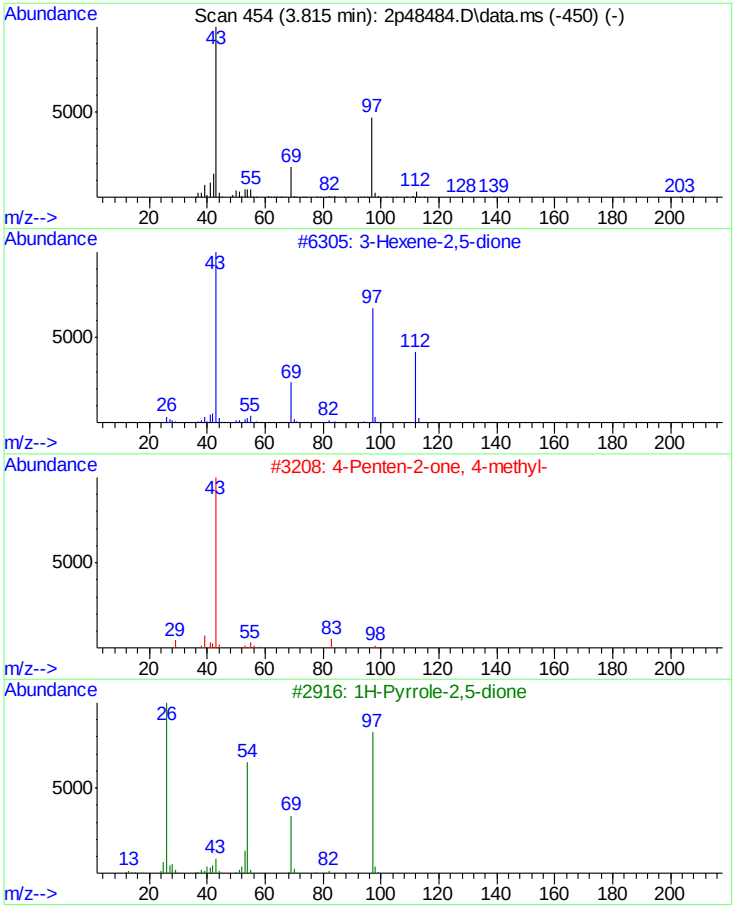
```
Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48484.D
Acq On    : 11 May 2015  11:32 pm
Operator  : sarad
Sample    : jb94209-7
Misc      : op83787,e2p2069,31.7
ALS Vial  : 18   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

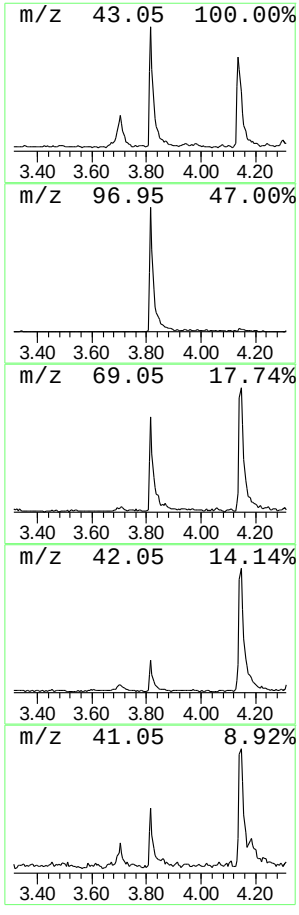
****

Peak Number 2 unknown Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.815	7.35 ppm	187026	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hexene-2,5-dione	112	C6H8O2	004436-75-3	39
2	4-Penten-2-one, 4-methyl-	98	C6H10O	003744-02-3	9
3	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	9
4	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	9
5	2,6-Heptanedione	128	C7H12O2	013505-34-5	9





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48484.D
Acq On : 11 May 2015 11:32 pm
Operator : sarad
Sample : jb94209-7
Misc : op83787,e2p2069,31.7
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

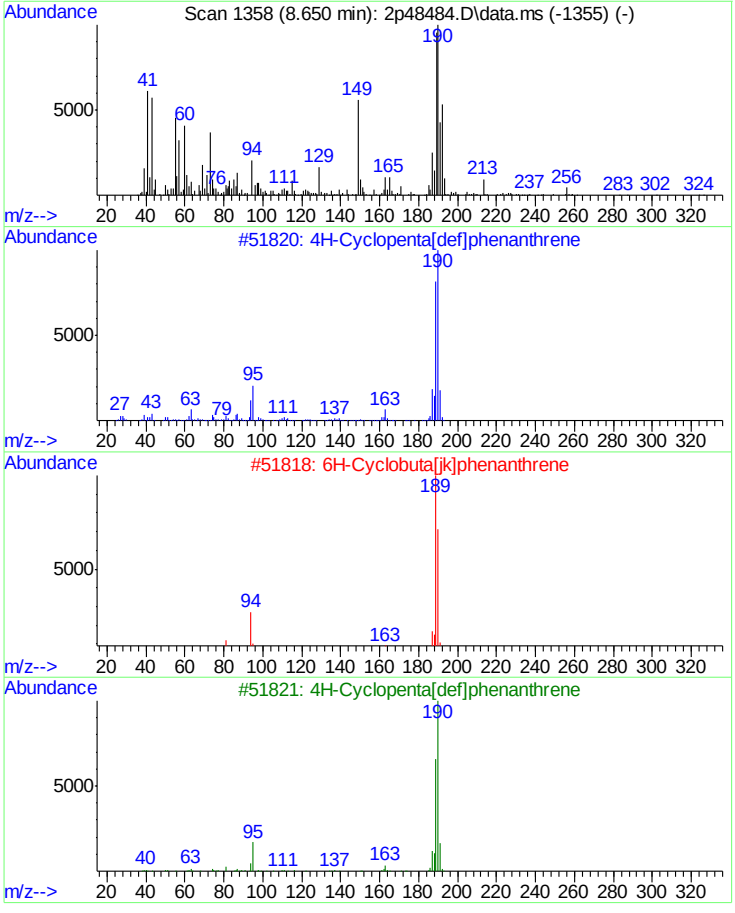
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

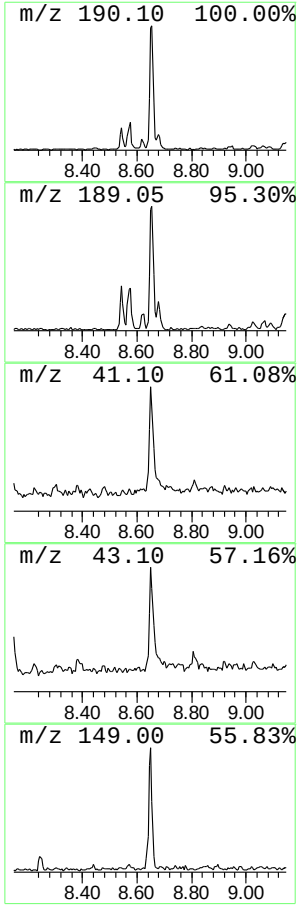
****

Peak Number 3 unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.650	6.90 ppm	245746	Phenanthrene-d10	8.057

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	43
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	43
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	38
4	Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	38
5	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	38





Library Search Compound Report

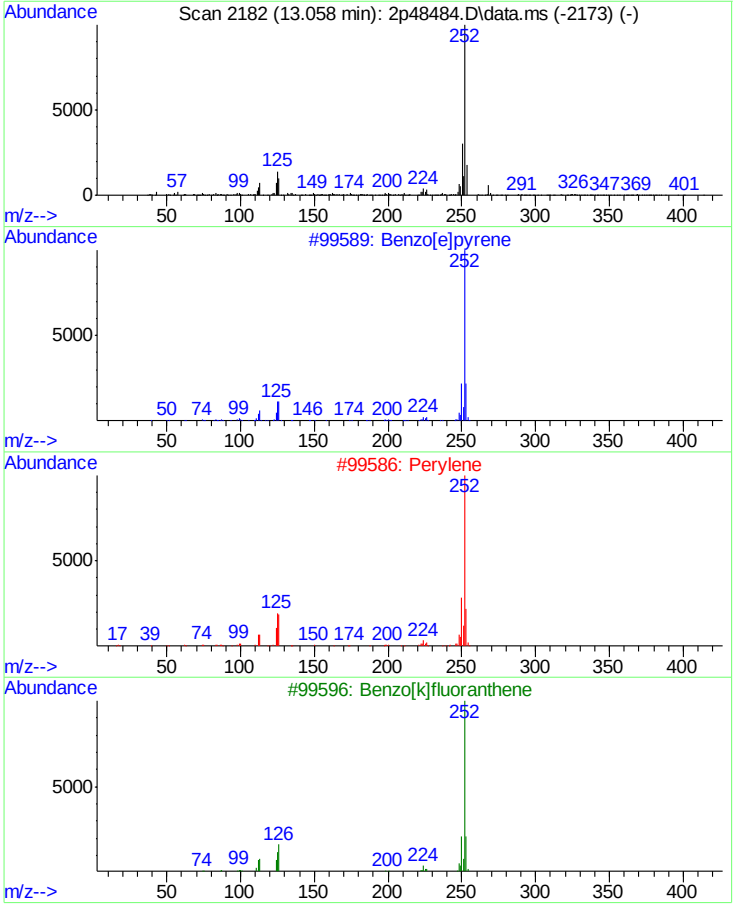
```
Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48484.D
Acq On    : 11 May 2015  11:32 pm
Operator  : sarad
Sample    : jb94209-7
Misc      : op83787,e2p2069,31.7
ALS Vial  : 18   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

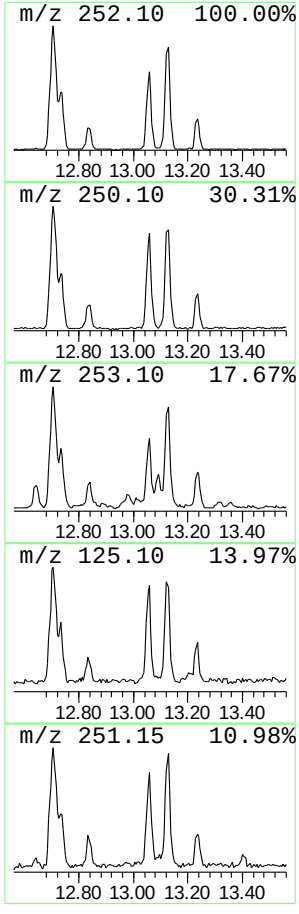
****

Peak Number 4 unknown PAH substance Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.058	10.08 ppm	306633	Perylene-d12	13.207

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2	Perylene	252	C20H12	000198-55-0	90
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	89
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	89
5	Perylene	252	C20H12	000198-55-0	89





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48484.D
Acq On    : 11 May 2015  11:32 pm
Operator  : sarad
Sample    : jb94209-7
Misc      : op83787,e2p2069,31.7
ALS Vial  : 18   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

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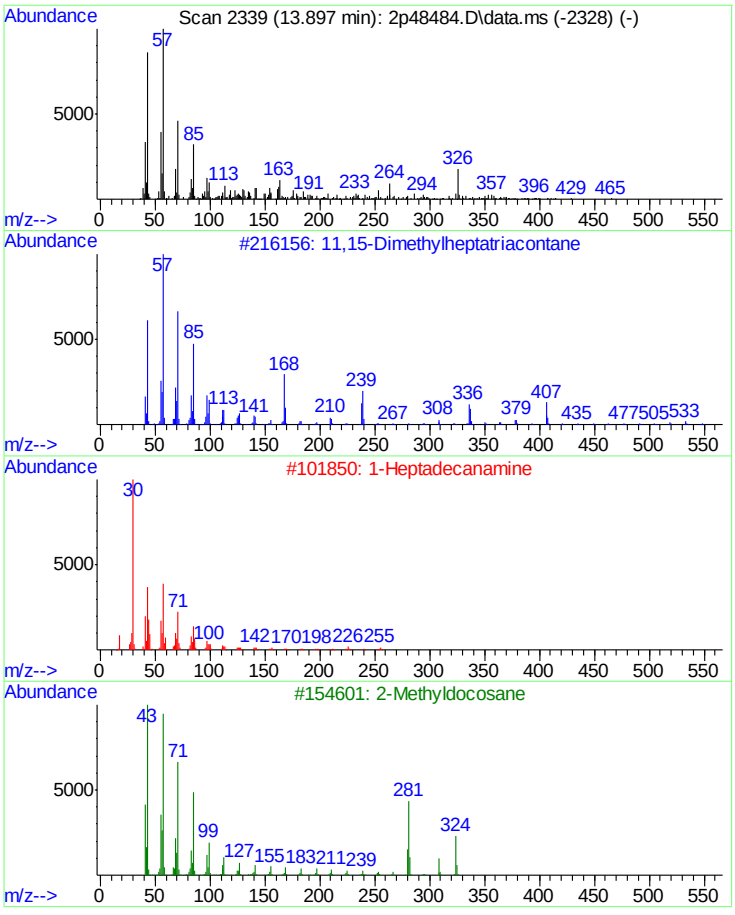
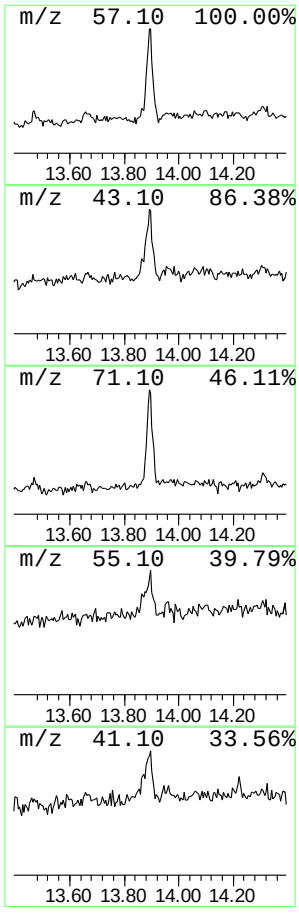
Peak Number 5 unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.897	7.81 ppm	237566	Perylene-d12	13.207

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11,15-Dimethylheptatriacontane	549	C39H80	056987-89-4	42
2	1-Heptadecanamine	255	C17H37N	004200-95-7	40
3	2-Methyldocosane	324	C23H48	001560-81-2	38
4	Hexacosane, 9-octyl-	479	C34H70	055429-83-9	38
5	Hexacosane, 13-dodecyl-	535	C38H78	055517-73-2	33





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48484.D
Acq On    : 11 May 2015  11:32 pm
Operator  : sarad
Sample    : jb94209-7
Misc      : op83787,e2p2069,31.7
ALS Vial  : 18   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```
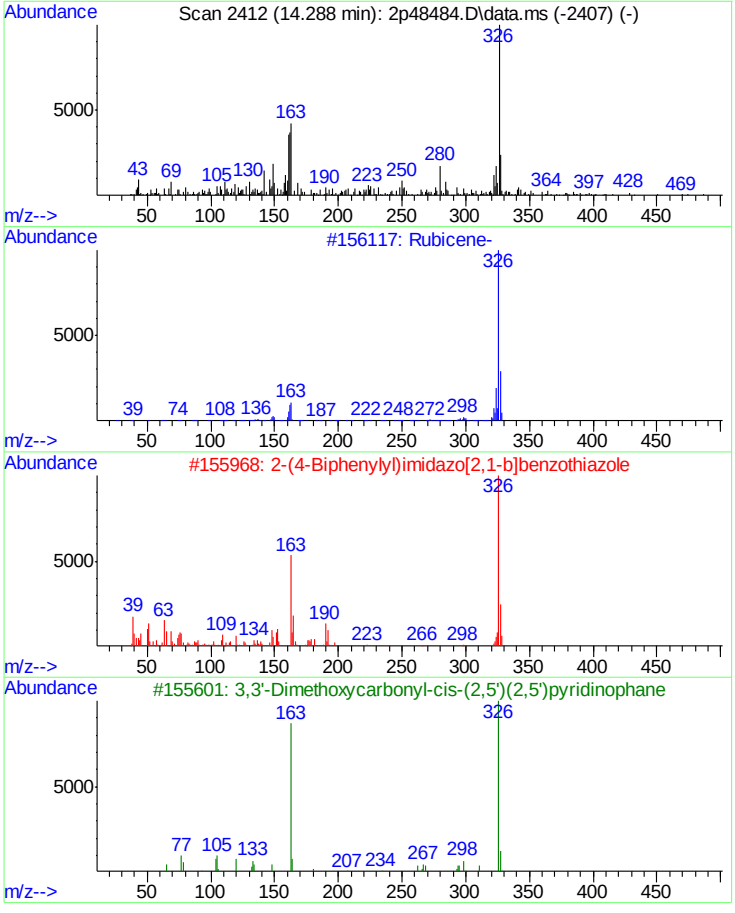
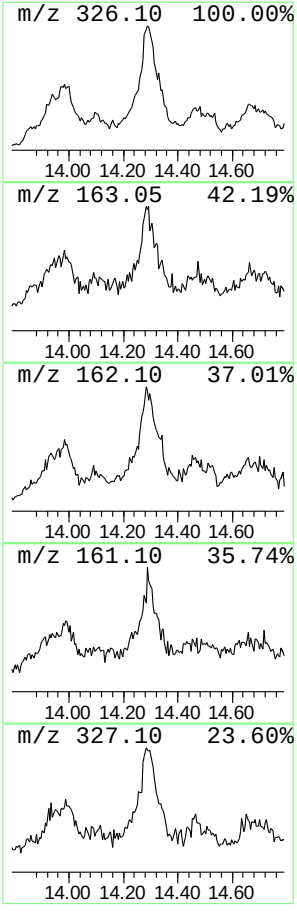

****

Peak Number 6 unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.288	9.06 ppm	275825	Perylene-d12	13.207

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Rubicene-	326	C26H14	000197-61-5	64
2	2-(4-Biphenylyl)imidazo[2,1-b]be...	326	C21H14N2S	038956-29-5	50
3	3,3'-Dimethoxycarbonyl-cis-(2,5'...	326	C18H18N2O4	1000148-86-9	47
4	Bis(pentamethylcyclopentadienyl)...	326	C20H30Fe	012126-50-0	43
5	Acetic acid, [2,5-bis(trimethyls...	326	C15H26O4Si2	027798-63-6	38





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48484.D
Acq On : 11 May 2015 11:32 pm
Operator : sarad
Sample : jb94209-7
Misc : op83787,e2p2069,31.7
ALS Vial : 18 Sample Multiplier: 1

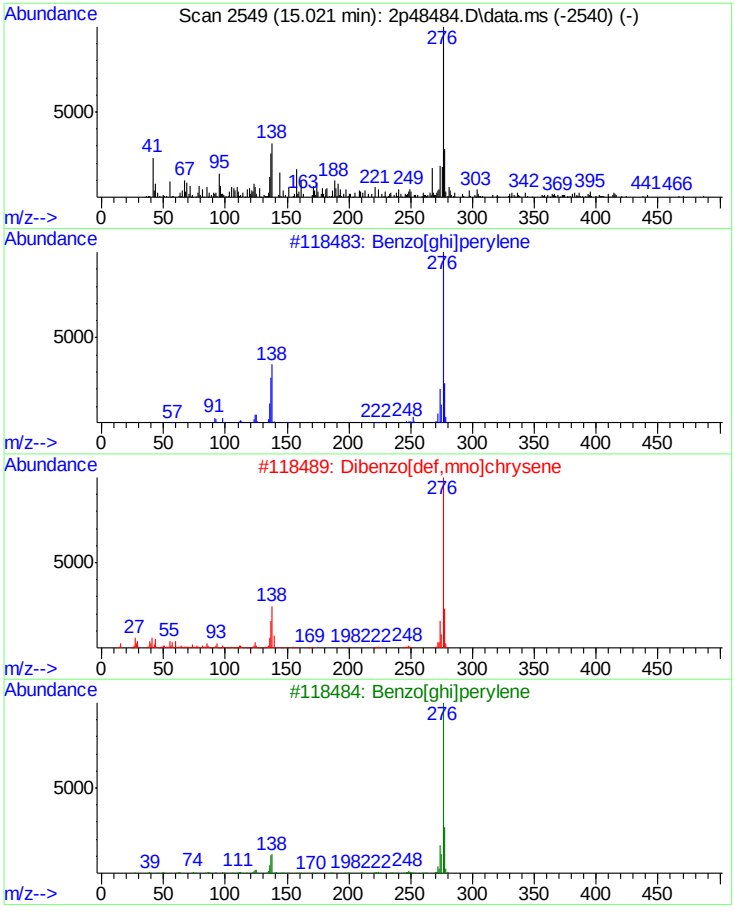
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

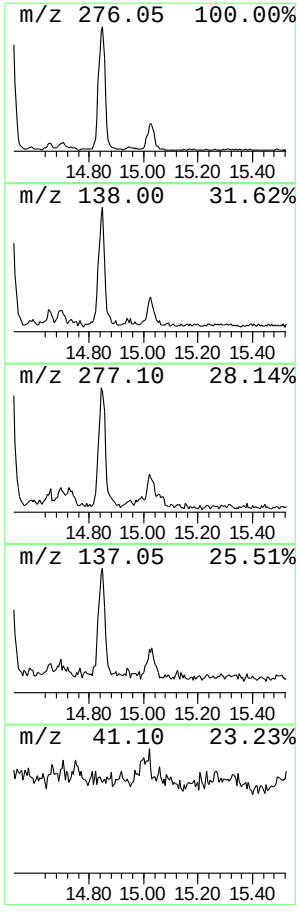
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 7 unknown PAH substance Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.021	9.61 ppm	292520	Perylene-d12	13.207

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]perylene	276	C22H12	000191-24-2	94
2	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	94
3	Benzo[ghi]perylene	276	C22H12	000191-24-2	91
4	Benzo[ghi]perylene	276	C22H12	000191-24-2	91
5	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	89





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48484.D
Acq On    : 11 May 2015  11:32 pm
Operator  : sarad
Sample    : jb94209-7
Misc      : op83787,e2p2069,31.7
ALS Vial  : 18   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

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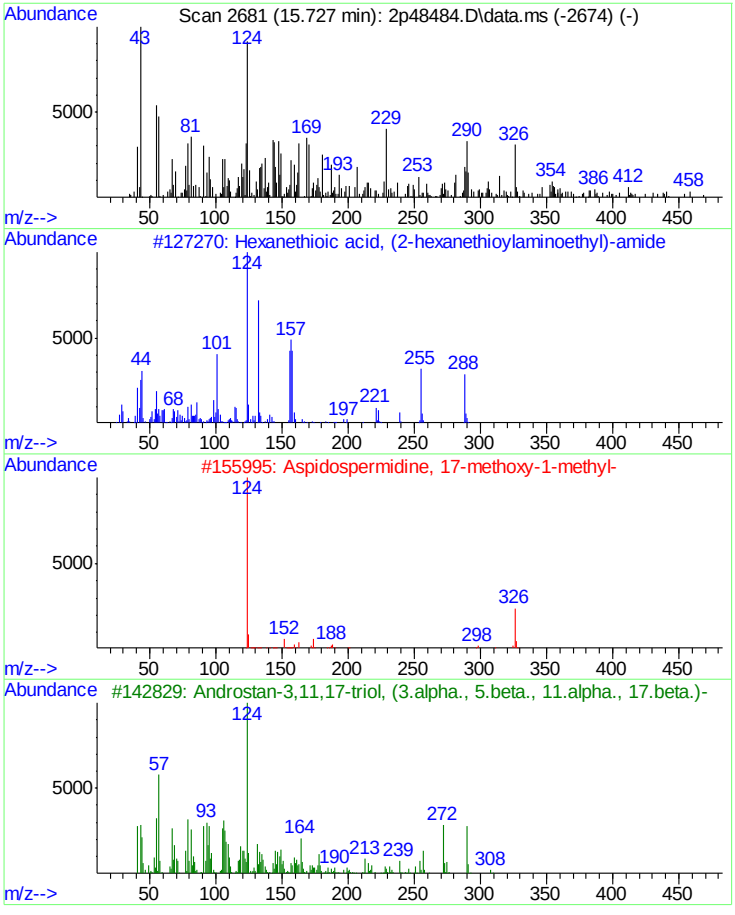
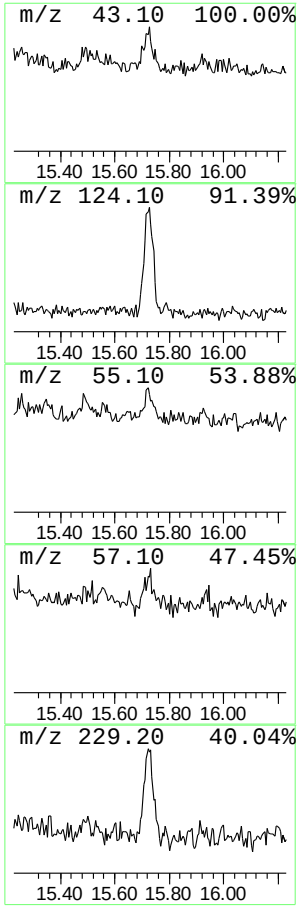
Peak Number 8 unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.727	9.04 ppm	275218	Perylene-d12	13.207

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanethioic acid, (2-hexanethio...	288	C14H28N2S2	1000193-53-9	41
2	Aspidospermidine, 17-methoxy-1-m...	326	C21H30N2O	055400-14-1	38
3	Androstan-3,11,17-triol, (3.alph...	308	C19H32O3	004484-95-1	38
4	Pregn-4-ene-3,20-dione, (9.beta....	314	C21H30O2	002755-10-4	30
5	2-Amino-6-methoxypyridine	124	C6H8N2O	017920-35-3	25





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48484.D
Acq On    : 11 May 2015  11:32 pm
Operator  : sarad
Sample    : jb94209-7
Misc      : op83787,e2p2069,31.7
ALS Vial  : 18   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

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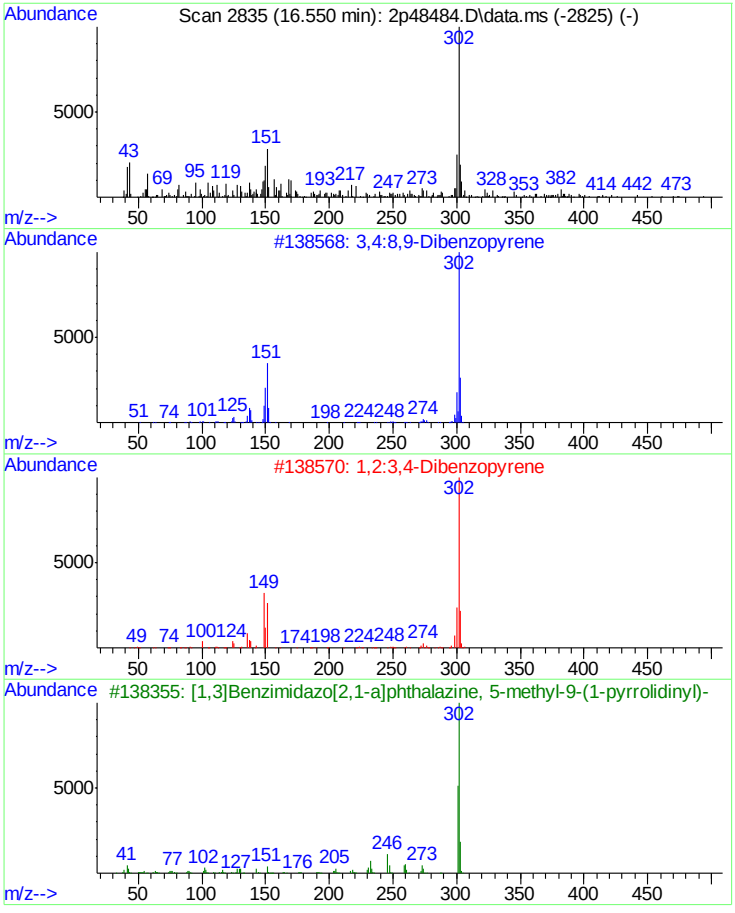
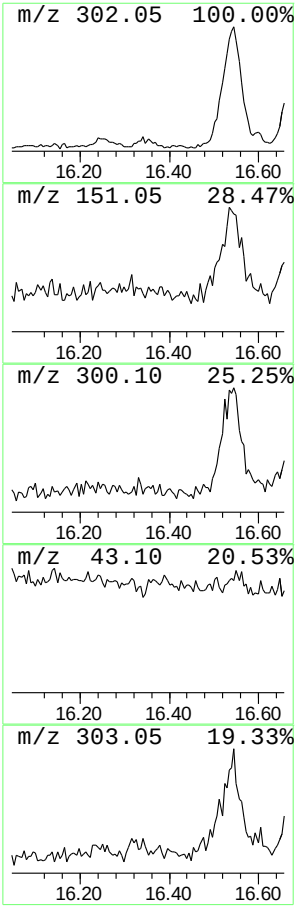
Peak Number 9 unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.550	4.68 ppm	142452	Perylene-d12	13.207

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	70
2	1,2:3,4-Dibenzopyrene	302	C24H14	000191-30-0	58
3	[1,3]Benzimidazo[2,1-a]phthalazi...	302	C19H18N4	1000319-80-2	58
4	Dibenzo[fg,op]naphthacene	302	C24H14	000192-51-8	53
5	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	53





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48484.D
Acq On : 11 May 2015 11:32 pm
Operator : sarad
Sample : jb94209-7
Misc : op83787,e2p2069,31.7
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
system artifact...	2.890	10.9	ppm	277756	1	4.318	1017240	40.0
unknown	3.815	7.3	ppm	187026	1	4.318	1017240	40.0
unknown	8.650	6.9	ppm	245746	7	8.057	1424110	40.0
unknown PAH sub...	13.058	10.1	ppm	306633	10	13.207	1217270	40.0
unknown	13.897	7.8	ppm	237566	10	13.207	1217270	40.0
unknown	14.288	9.1	ppm	275825	10	13.207	1217270	40.0
unknown PAH sub...	15.021	9.6	ppm	292520	10	13.207	1217270	40.0
unknown	15.727	9.0	ppm	275218	10	13.207	1217270	40.0
unknown	16.550	4.7	ppm	142452	10	13.207	1217270	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48475.D
Acq On : 11 May 2015 8:23 pm
Operator : sarad
Sample : jb94209-8
Misc : op83787,e2p2069,30.6
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 11 22:33:46 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.318	152	215138	40.00 ppm	-0.09
24) Naphthalene-d8	5.372	136	720080	40.00 ppm	-0.09
47) Acenaphthene-d10	6.805	164	445556	40.00 ppm	-0.09
69) Phenanthrene-d10	8.046	188	719958	40.00 ppm	-0.10
83) Chrysene-d12	11.202	240	688679	40.00 ppm	-0.13
92) Perylene-d12	13.186	264	565038	40.00 ppm	-0.13
102) 1,4-Dichlorobenzene-d4a	4.318	152	215138	40.00 ppm	-0.09
104) Naphthalene-d8a	5.372	136	720080	40.00 ppm	#-0.09
106) Acenaphthene-d10a	6.805	164	445556	40.00 ppm	-0.09
109) Chrysene-d12a	11.202	240	688679	40.00 ppm	-0.13
System Monitoring Compounds					
5) 2-Fluorophenol	3.291	112	199818	31.59 ppm	-0.11
Spiked Amount 50.000	Range 11 - 58		Recovery = 63.18%#		
8) Phenol-d5	4.131	99	239945	30.15 ppm	-0.10
Spiked Amount 50.000	Range 10 - 59		Recovery = 60.30%#		
25) Nitrobenzene-d5	4.789	82	249539	38.24 ppm	-0.09
Spiked Amount 50.000	Range 19 - 61		Recovery = 76.48%#		
51) 2-Fluorobiphenyl	6.265	172	590022	38.68 ppm	-0.08
Spiked Amount 50.000	Range 21 - 58		Recovery = 77.36%#		
73) 2,4,6-Tribromophenol	7.468	330	58409	34.92 ppm	-0.09
Spiked Amount 50.000	Range 12 - 68		Recovery = 69.84%#		
85) Terphenyl-d14	9.800	244	580311	45.30 ppm	-0.12
Spiked Amount 50.000	Range 16 - 65		Recovery = 90.60%#		
Target Compounds					Qvalue
77) Phenanthrene	8.067	178	22058	1.11 ppm	98
81) Fluoranthene	9.314	202	31629	1.33 ppm	94
84) Pyrene	9.576	202	25392	1.21 ppm	91
88) Benzo[a]anthracene	11.186	228	16406	0.82 ppm	97
90) Chrysene	11.234	228	10833	0.61 ppm	98
94) Benzo[b]fluoranthene	12.683	252	11945	0.69 ppm	93
96) Benzo[a]pyrene	13.106	252	8531	0.57 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

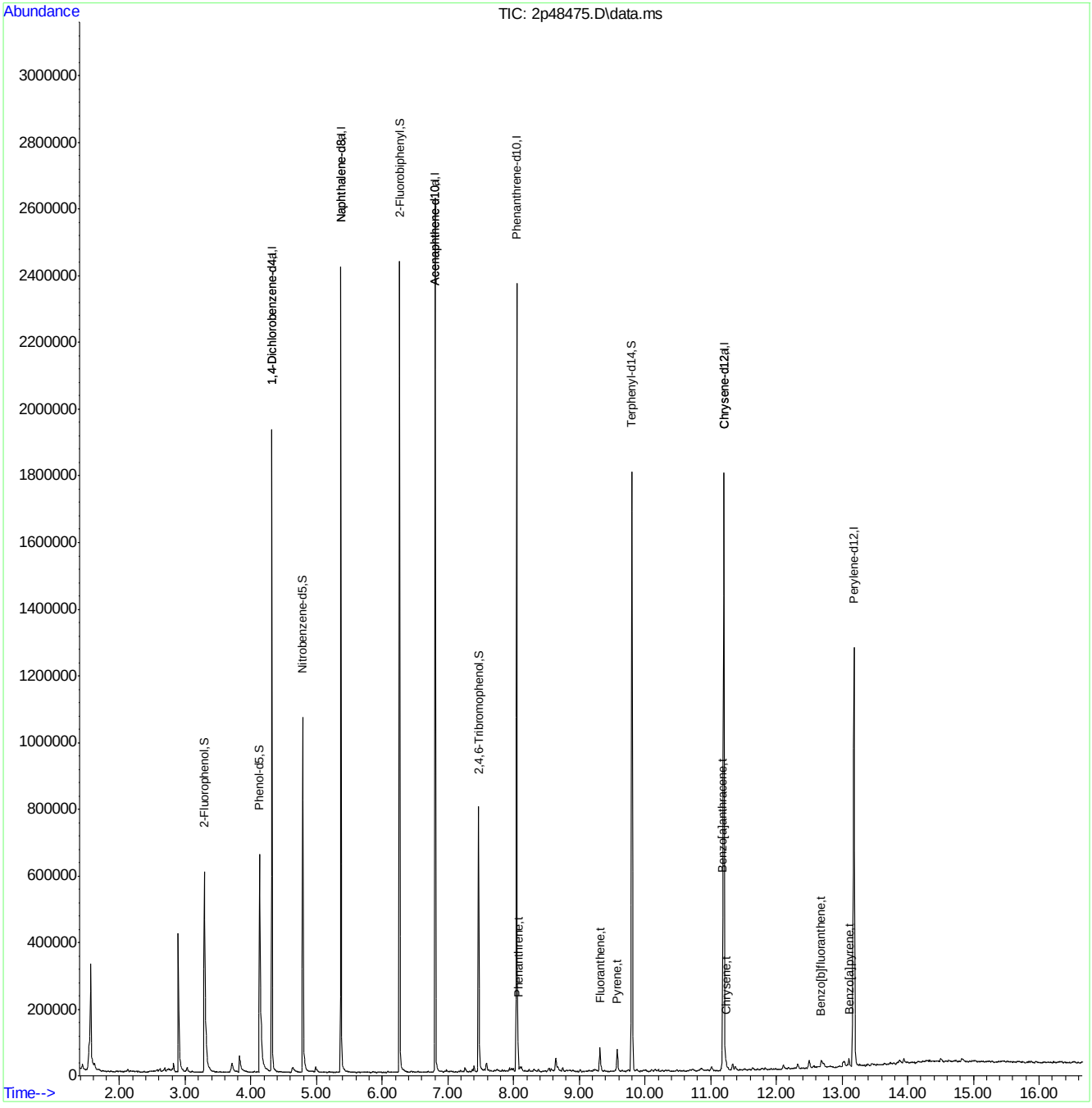
9.1.17

9

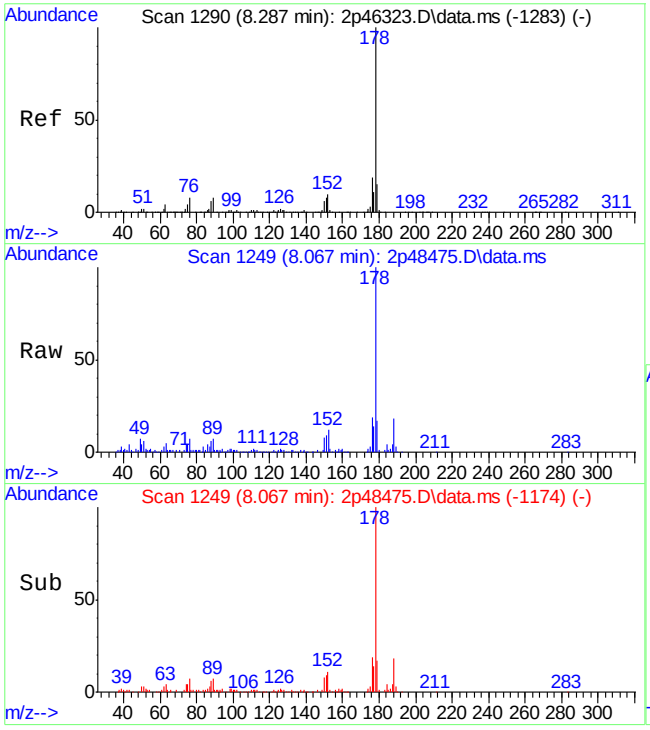
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48475.D
Acq On : 11 May 2015 8:23 pm
Operator : sarad
Sample : jb94209-8
Misc : op83787,e2p2069,30.6
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 11 22:33:46 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration



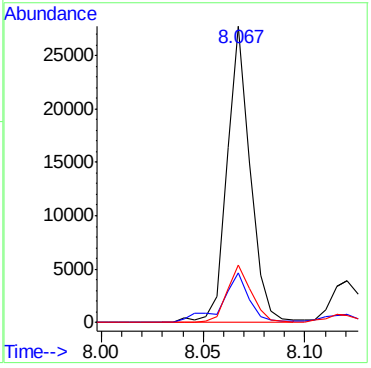
M2P2044.M Mon May 11 22:33:59 2015 RPT1 Page: 2

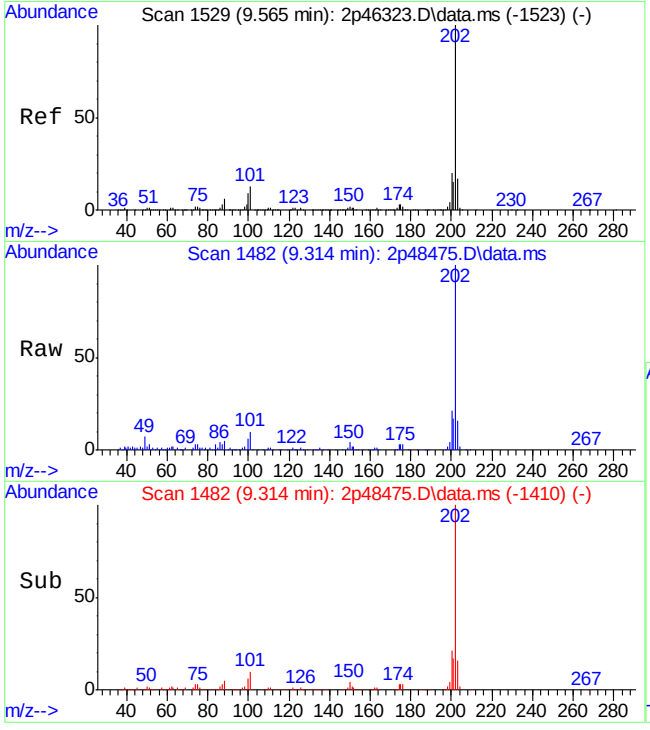


#77
Phenanthrene
Concen: 1.11 ppm
RT: 8.067 min Scan# 1249
Delta R.T. -0.101 min
Lab File: 2p48475.D
Acq: 11 May 2015 8:23 pm

Tgt Ion:178 Resp: 22058

Ion	Ratio	Lower	Upper
178	100		
179	16.7	0.0	45.4
176	19.3	0.0	48.5

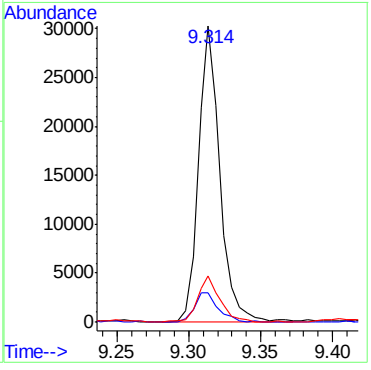




#81
Fluoranthene
Concen: 1.33 ppm
RT: 9.314 min Scan# 1482
Delta R.T. -0.118 min
Lab File: 2p48475.D
Acq: 11 May 2015 8:23 pm

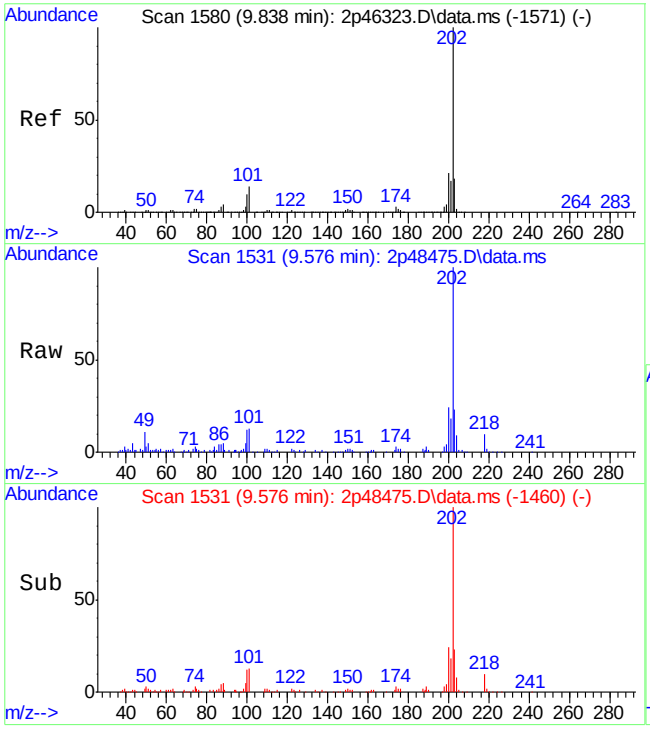
Tgt Ion:202 Resp: 31629

Ion	Ratio	Lower	Upper
202	100		
101	9.6	0.0	43.1
203	15.6	0.0	47.4



9.1.17

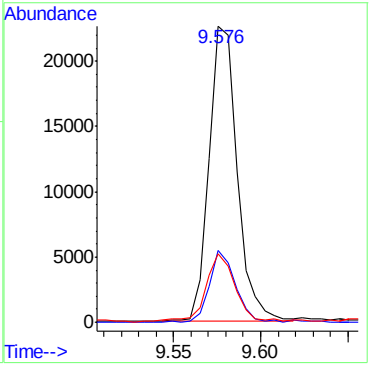
9

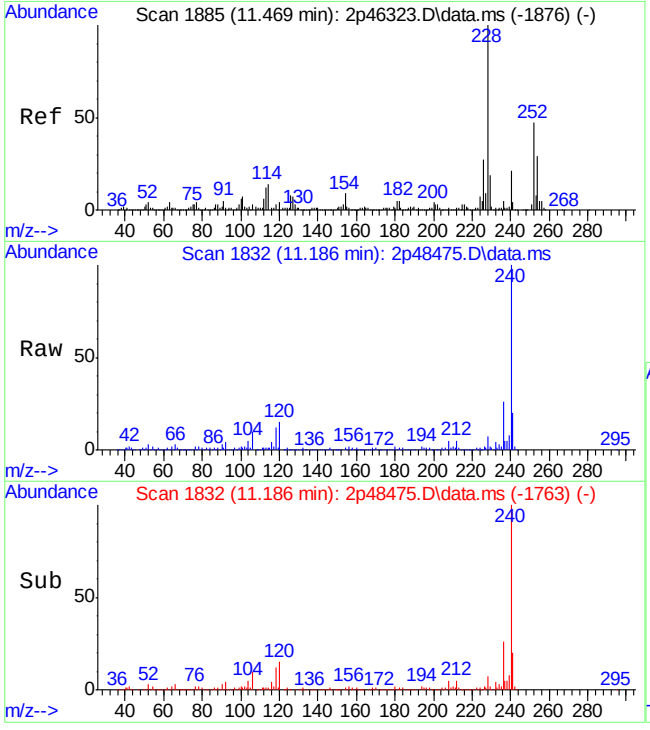


#84
Pyrene
Concen: 1.21 ppm
RT: 9.576 min Scan# 1531
Delta R.T. -0.123 min
Lab File: 2p48475.D
Acq: 11 May 2015 8:23 pm

Tgt Ion:202 Resp: 25392

Ion	Ratio	Lower	Upper
202	100		
200	24.2	0.0	51.0
203	22.7	0.0	47.4

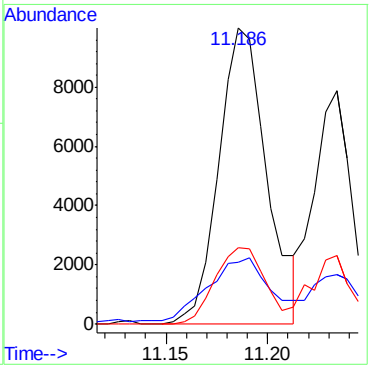


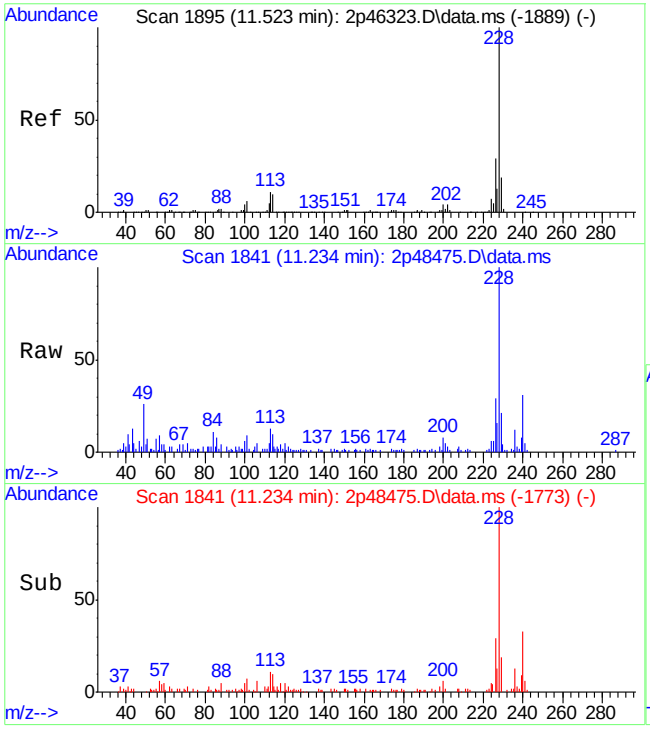


#88
Benzo[a]anthracene
Concen: 0.82 ppm
RT: 11.186 min Scan# 1832
Delta R.T. -0.134 min
Lab File: 2p48475.D
Acq: 11 May 2015 8:23 pm

Tgt Ion:228 Resp: 16406

Ion	Ratio	Lower	Upper
228	100		
229	18.5	0.0	50.1
226	25.8	0.0	57.2

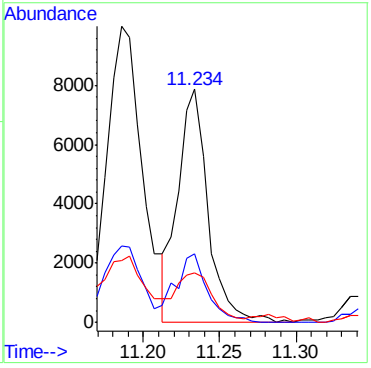


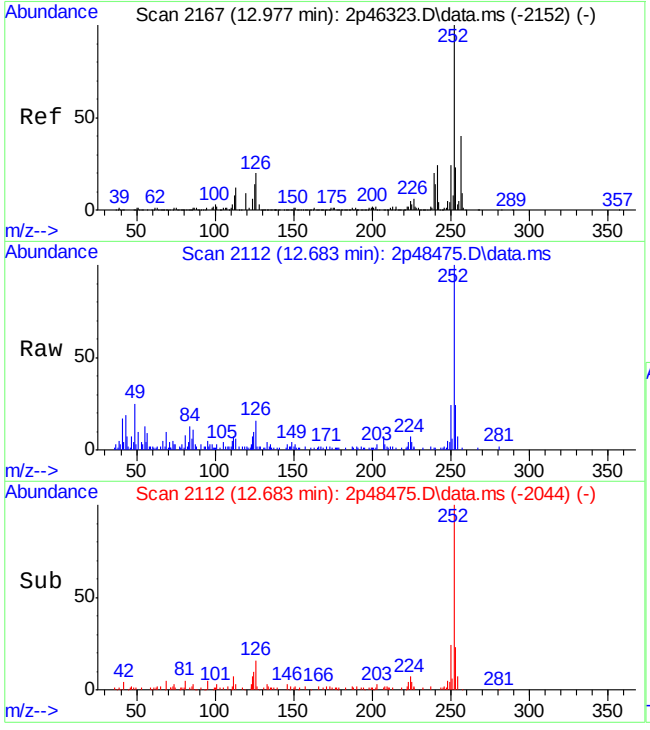


#90
Chrysene
Concen: 0.61 ppm
RT: 11.234 min Scan# 1841
Delta R.T. -0.139 min
Lab File: 2p48475.D
Acq: 11 May 2015 8:23 pm

Tgt Ion:228 Resp: 10833

Ion	Ratio	Lower	Upper
228	100		
226	30.0	0.0	58.8
229	18.8	0.0	49.1

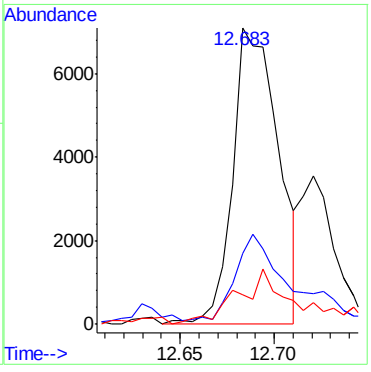




#94
Benzo[b]fluoranthene
Concen: 0.69 ppm
RT: 12.683 min Scan# 2112
Delta R.T. -0.139 min
Lab File: 2p48475.D
Acq: 11 May 2015 8:23 pm

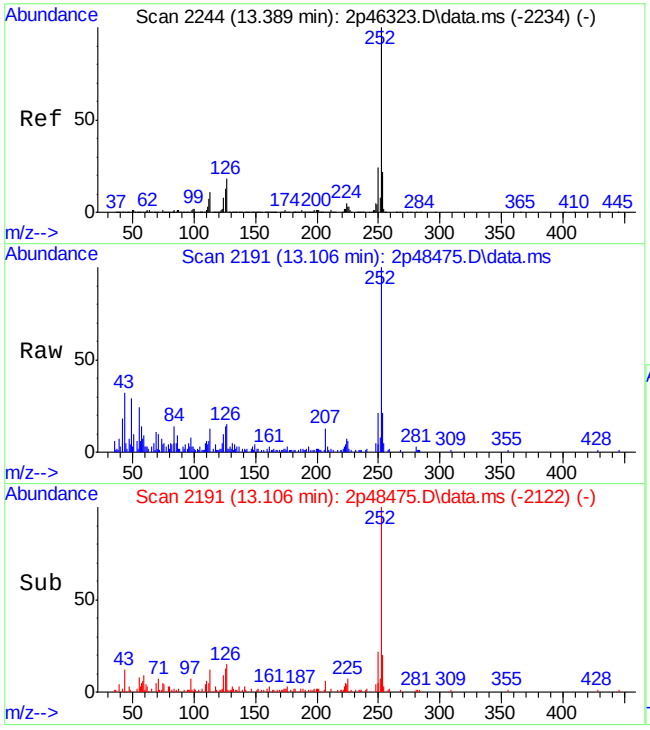
Tgt Ion:252 Resp: 11945

Ion	Ratio	Lower	Upper
252	100		
253	21.6	0.0	52.1
125	5.7	0.0	42.9



9.1.17

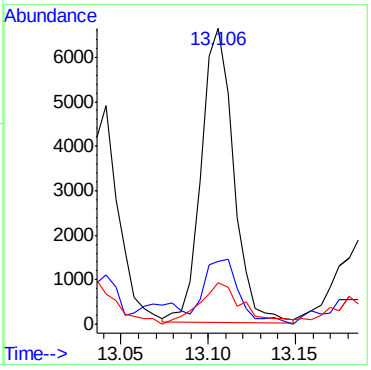
9



#96
Benzo[a]pyrene
Concen: 0.57 ppm
RT: 13.106 min Scan# 2191
Delta R.T. -0.134 min
Lab File: 2p48475.D
Acq: 11 May 2015 8:23 pm

Tgt Ion:252 Resp: 8531

Ion	Ratio	Lower	Upper
252	100		
253	23.2	0.0	51.8
125	13.3	0.0	45.1



9.1.17

9

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48475.D
Acq On : 11 May 2015 8:23 pm
Operator : sarad
Sample : jb94209-8
Misc : op83787,e2p2069,30.6
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: 2p48475.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.435	5	9	18	rVB3	18863	26370	1.24%	0.129%
2	1.563	18	33	41	rBV2	318431	482623	22.76%	2.360%
3	1.617	41	43	53	rVB6	19272	29202	1.38%	0.143%
4	2.130	133	139	142	rVB3	6284	7798	0.37%	0.038%
5	2.168	142	146	158	rVB3	4448	10025	0.47%	0.049%
6	2.574	216	222	225	rVV6	8193	12923	0.61%	0.063%
7	2.617	225	230	235	rVV4	9558	14883	0.70%	0.073%
8	2.687	235	243	246	rVV3	13578	21096	0.99%	0.103%
9	2.745	246	254	256	rVV7	9255	18411	0.87%	0.090%
10	2.820	261	268	274	rVV	26095	40005	1.89%	0.196%
11	2.895	276	282	300	rBV	416546	435992	20.56%	2.132%
12	3.029	300	307	316	rVB	14777	24000	1.13%	0.117%
13	3.291	351	356	387	rBV	601367	832444	39.25%	4.070%
14	3.714	421	435	446	rBV2	28516	62607	2.95%	0.306%
15	3.826	452	456	478	rBV	49173	90558	4.27%	0.443%
16	4.131	510	513	543	rVV	653834	902529	42.55%	4.413%
17	4.318	543	548	563	rVB	1927919	1377337	64.94%	6.734%
18	4.634	601	607	622	rBV2	15409	45403	2.14%	0.222%
19	4.789	631	636	657	rBV	1065080	891431	42.03%	4.358%
20	4.981	668	672	685	rVB3	16829	27573	1.30%	0.135%
21	5.372	738	745	759	rBV	2416861	1635964	77.13%	7.999%
22	6.088	874	879	885	rBV7	3599	8062	0.38%	0.039%
23	6.265	904	912	933	rBV	2432728	1800556	84.90%	8.803%
24	6.805	1005	1013	1035	rBV	2623841	1930297	91.01%	9.438%
25	6.982	1042	1046	1051	rVV6	7964	10051	0.47%	0.049%
26	7.190	1083	1085	1090	rVB5	6472	6240	0.29%	0.031%
27	7.260	1095	1098	1105	rBV6	11426	13049	0.62%	0.064%
28	7.372	1114	1119	1121	rBV5	7012	8509	0.40%	0.042%
29	7.399	1121	1124	1130	rVB	18550	16293	0.77%	0.080%
30	7.463	1130	1136	1150	rBV	797260	723849	34.13%	3.539%
31	7.586	1154	1159	1163	rVB2	22727	28232	1.33%	0.138%
32	7.746	1185	1189	1197	rVB10	5716	10491	0.49%	0.051%
33	7.939	1219	1225	1227	rBV2	12053	14201	0.67%	0.069%
34	7.966	1227	1230	1233	rVB4	8052	7150	0.34%	0.035%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48475.D
Acq On : 11 May 2015 8:23 pm
Operator : sarad
Sample : jb94209-8
Misc : op83787,e2p2069,30.6
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

35	7.993	1233	1235	1239	rVB5	7553	7659	0.36%	0.037%
36	8.046	1239	1245	1253	rBV	2364359	2004783	94.52%	9.802%
37	8.099	1253	1255	1257	rVV	8175	6468	0.30%	0.032%
38	8.121	1257	1259	1266	rVB	12698	14173	0.67%	0.069%
39	8.308	1289	1294	1303	rBV7	7364	14711	0.69%	0.072%
40	8.372	1303	1306	1314	rVB10	6524	10286	0.48%	0.050%
41	8.538	1330	1337	1340	rBV7	10197	15641	0.74%	0.076%
42	8.640	1350	1356	1360	rBV2	37867	48636	2.29%	0.238%
43	8.747	1372	1376	1383	rVB	10145	11352	0.54%	0.056%
44	8.859	1395	1397	1402	rVV5	4092	6165	0.29%	0.030%
45	8.907	1402	1406	1414	rVB10	4917	8396	0.40%	0.041%
46	9.014	1422	1426	1431	rVB7	7281	8304	0.39%	0.041%
47	9.142	1447	1450	1455	rVV6	4394	7259	0.34%	0.035%
48	9.212	1459	1463	1465	rVV5	5947	8168	0.39%	0.040%
49	9.233	1465	1467	1475	rVV9	7039	14952	0.70%	0.073%
50	9.314	1476	1482	1491	rVV	73508	92574	4.36%	0.453%
51	9.576	1521	1531	1538	rVV	68666	87513	4.13%	0.428%
52	9.656	1538	1546	1549	rVV10	3805	7322	0.35%	0.036%
53	9.747	1555	1563	1567	rBV10	6125	13711	0.65%	0.067%
54	9.800	1567	1573	1582	rVV	1798036	1946350	91.77%	9.516%
55	9.875	1585	1587	1596	rVB9	5762	9232	0.44%	0.045%
56	10.014	1600	1613	1621	rVB8	7381	22341	1.05%	0.109%
57	10.100	1625	1629	1634	rBV7	5416	7782	0.37%	0.038%
58	10.153	1634	1639	1643	rVV8	6440	10825	0.51%	0.053%
59	10.207	1643	1649	1655	rVB8	5969	9561	0.45%	0.047%
60	10.330	1664	1672	1673	rBV8	3140	6185	0.29%	0.030%
61	10.485	1695	1701	1705	rVB7	5123	8324	0.39%	0.041%
62	10.726	1741	1746	1757	rVB7	6052	14432	0.68%	0.071%
63	10.859	1763	1771	1772	rBV6	7133	12357	0.58%	0.060%
64	10.950	1785	1788	1794	rVB8	4659	6427	0.30%	0.031%
65	11.014	1794	1800	1806	rBV6	11579	17075	0.81%	0.083%
66	11.202	1821	1835	1855	rBV	1794657	2120921	100.00%	10.370%
67	11.335	1855	1860	1864	rVV2	20584	28904	1.36%	0.141%
68	11.378	1864	1868	1877	rVB9	10606	21644	1.02%	0.106%
69	11.517	1888	1894	1896	rBV7	3741	6284	0.30%	0.031%
70	11.635	1913	1916	1924	rVV10	6807	10901	0.51%	0.053%
71	11.715	1926	1931	1935	rVB8	4865	7890	0.37%	0.039%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48475.D
Acq On : 11 May 2015 8:23 pm
Operator : sarad
Sample : jb94209-8
Misc : op83787,e2p2069,30.6
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

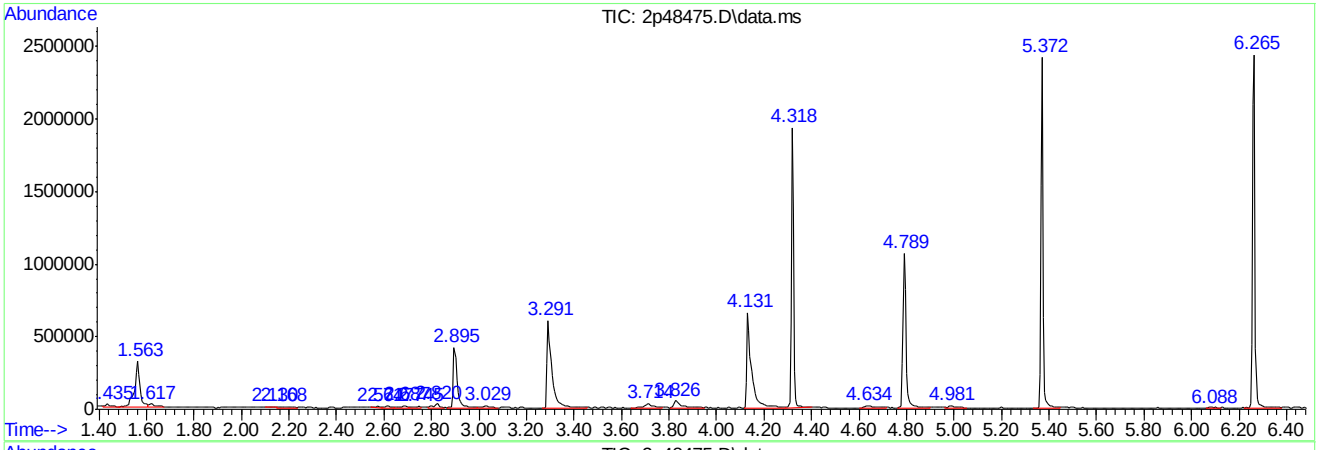
Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

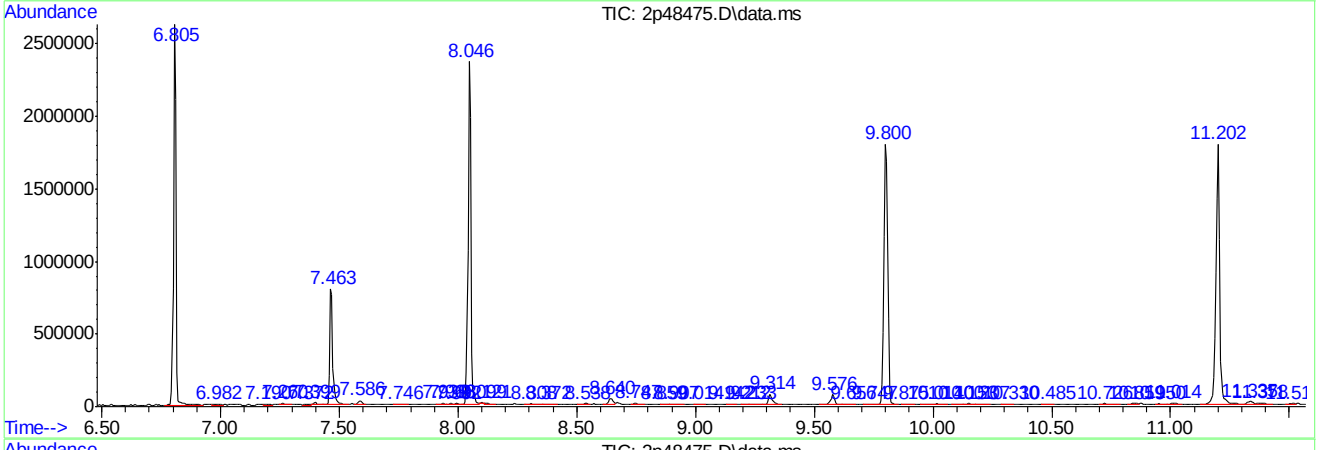
72	11.785	1938	1944	1948	rBV8	5663	11965	0.56%	0.058%
73	11.827	1948	1952	1959	rVB9	5939	10307	0.49%	0.050%
74	12.106	1996	2004	2010	rBV5	12867	22486	1.06%	0.110%
75	12.186	2016	2019	2024	rBV7	4516	8093	0.38%	0.040%
76	12.325	2041	2045	2052	rVV8	13646	18062	0.85%	0.088%
77	12.501	2071	2078	2084	rBV4	23729	38682	1.82%	0.189%
78	12.571	2087	2091	2095	rVB7	6617	8571	0.40%	0.042%
79	12.683	2108	2112	2117	rBV2	19423	33199	1.57%	0.162%
80	12.817	2130	2137	2146	rVB2	3889	10980	0.52%	0.054%
81	12.956	2157	2163	2166	rBV8	4429	9268	0.44%	0.045%
82	13.036	2167	2178	2184	rVV5	15561	40165	1.89%	0.196%
83	13.106	2184	2191	2197	rVB2	23385	35748	1.69%	0.175%
84	13.181	2197	2205	2219	rBV	1256281	1750635	82.54%	8.559%
85	13.368	2237	2240	2242	rBV4	5187	6292	0.30%	0.031%
86	13.389	2242	2244	2250	rVB7	5716	7509	0.35%	0.037%
87	13.453	2250	2256	2260	rBV9	7707	15914	0.75%	0.078%
88	13.646	2285	2292	2298	rBV9	5445	12123	0.57%	0.059%
89	13.737	2303	2309	2313	rBV9	6388	10132	0.48%	0.050%
90	13.785	2313	2318	2324	rVB10	4954	8681	0.41%	0.042%
91	13.876	2324	2335	2343	rBV10	13862	44067	2.08%	0.215%
92	13.940	2343	2347	2355	rBV10	13533	26417	1.25%	0.129%
93	14.170	2383	2390	2392	rBV8	7482	13029	0.61%	0.064%
94	14.229	2396	2401	2405	rBV8	3699	7642	0.36%	0.037%
95	14.502	2449	2452	2460	rBV7	10382	16064	0.76%	0.079%
96	14.619	2472	2474	2483	rVB10	5179	10752	0.51%	0.053%
97	14.700	2483	2489	2490	rBV6	4707	7590	0.36%	0.037%
98	14.823	2508	2512	2525	rVB6	9693	23934	1.13%	0.117%
99	15.604	2657	2658	2667	rVB9	5099	9084	0.43%	0.044%
100	16.529	2822	2831	2837	rVB9	4738	14118	0.67%	0.069%

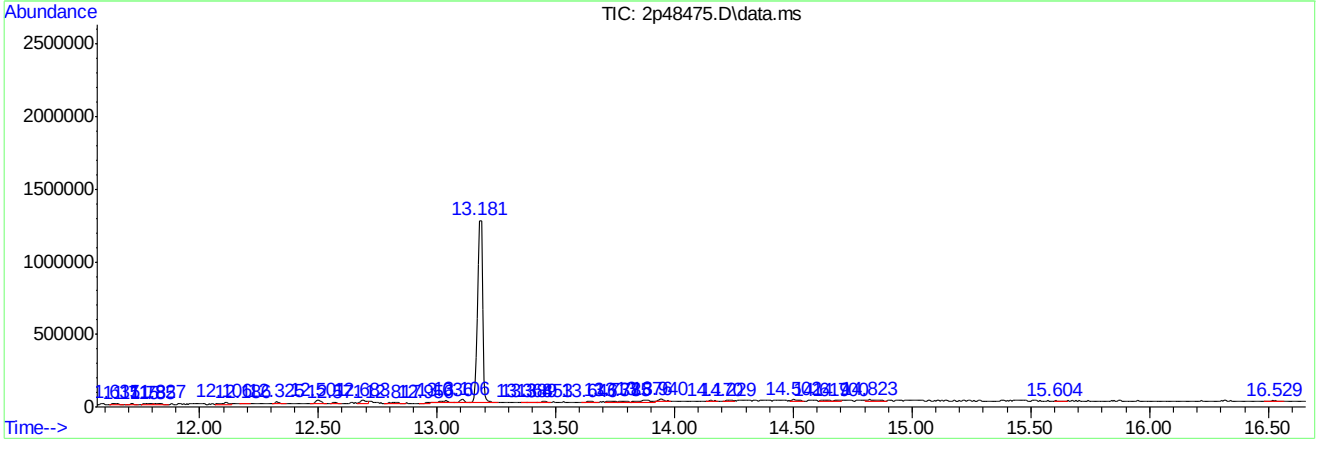
Sum of corrected areas: 20453171

LSC Report - Integrated Chromatogram

```
Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48475.D
Acq On    : 11 May 2015   8:23 pm
Operator  : sarad
Sample    : jb94209-8
Misc      : op83787,e2p2069,30.6
ALS Vial  : 9   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```







Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48475.D
Acq On : 11 May 2015 8:23 pm
Operator : sarad
Sample : jb94209-8
Misc : op83787,e2p2069,30.6
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

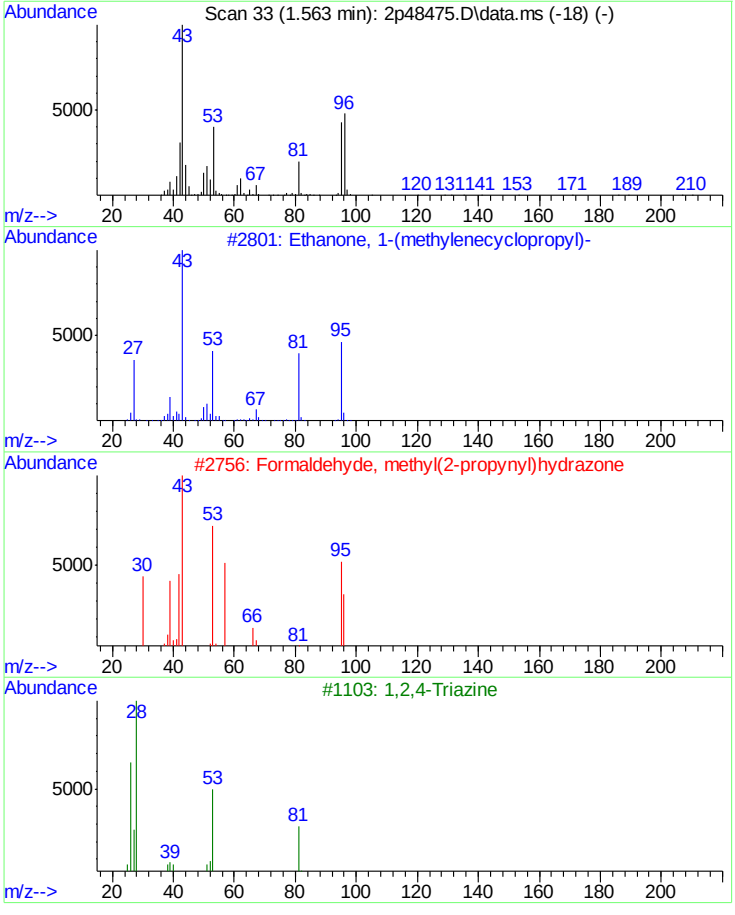
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

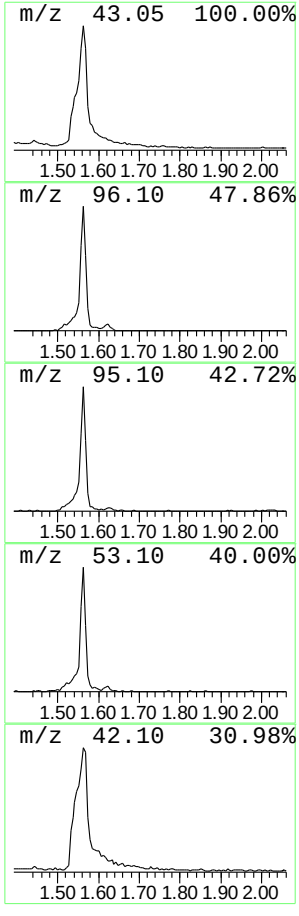
****

Peak Number 1 system artifact Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.563	14.02 ppm	482623	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanone, 1-(methylenecyclopropyl)-	96	C6H8O	062266-35-7	53
2	Formaldehyde, methyl(2-propynyl)...	96	C5H8N2	110213-10-0	9
3	1,2,4-Triazine	81	C3H3N3	000290-38-0	7
4	1,3-Butadiene-1-carboxylic acid	98	C5H6O2	000626-99-3	4
5	Difluoramine	53	F2HN	010405-27-3	2





Library Search Compound Report

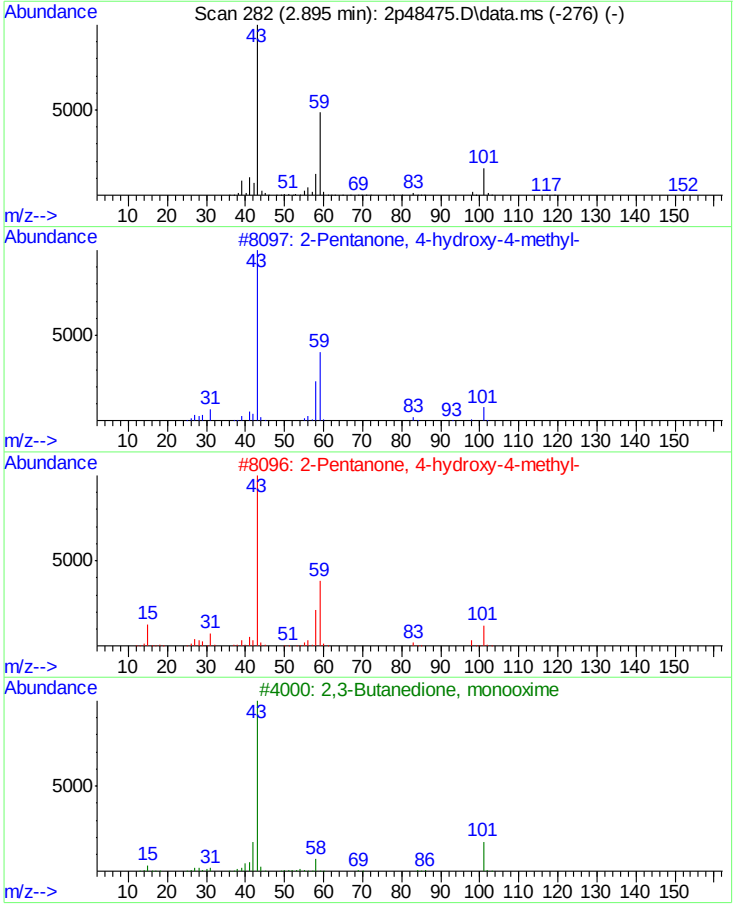
```
Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48475.D
Acq On    : 11 May 2015   8:23 pm
Operator  : sarad
Sample    : jb94209-8
Misc      : op83787,e2p2069,30.6
ALS Vial  : 9   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

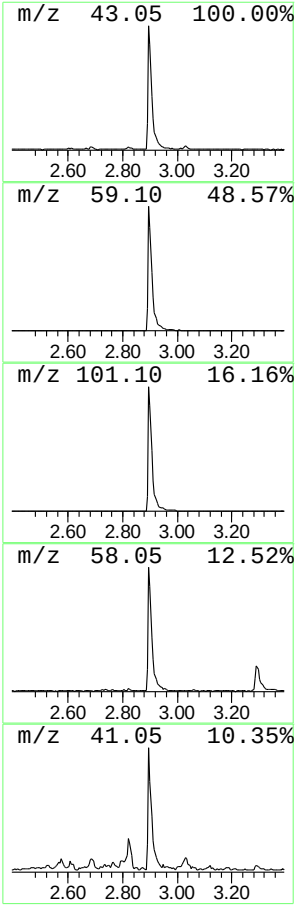
****

Peak Number 2 system artifact/aldol-conde... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.895	12.66 ppm	435992	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	27
4	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	25
5	1-Butene, 4-ethoxy-	100	C6H12O	044611-46-3	23





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48475.D
Acq On : 11 May 2015 8:23 pm
Operator : sarad
Sample : jb94209-8
Misc : op83787,e2p2069,30.6
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
system artifact	1.563	14.0	ppm	482623	1	4.318	1377340	40.0
system artifact...	2.895	12.7	ppm	435992	1	4.318	1377340	40.0

9.1.18

9

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48485.D
Acq On : 11 May 2015 11:53 pm
Operator : sarad
Sample : jb94209-9
Misc : op83787,e2p2069,30.4,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 12 09:09:42 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.323	152	155825	40.00	ppm	-0.08
24) Naphthalene-d8	5.377	136	528923	40.00	ppm	-0.08
47) Acenaphthene-d10	6.816	164	331055	40.00	ppm	-0.08
69) Phenanthrene-d10	8.057	188	511046	40.00	ppm	-0.09
83) Chrysene-d12	11.228	240	456315	40.00	ppm	-0.11
92) Perylene-d12	13.218	264	367544	40.00	ppm	-0.10
102) 1,4-Dichlorobenzene-d4a	4.323	152	155825	40.00	ppm	-0.08
104) Naphthalene-d8a	5.377	136	528923	40.00	ppm	#-0.08
106) Acenaphthene-d10a	6.816	164	331055	40.00	ppm	-0.08
109) Chrysene-d12a	11.228	240	456315	40.00	ppm	-0.11
System Monitoring Compounds						
5) 2-Fluorophenol	3.302	112	23541	5.14	ppm	-0.10
Spiked Amount 50.000	Range 11 - 58		Recovery	=	10.28%#	
8) Phenol-d5	4.157	99	27736	4.81	ppm	-0.07
Spiked Amount 50.000	Range 10 - 59		Recovery	=	9.62%	
25) Nitrobenzene-d5	4.794	82	29885	6.23	ppm	-0.08
Spiked Amount 50.000	Range 19 - 61		Recovery	=	12.46%#	
51) 2-Fluorobiphenyl	6.265	172	69444	6.13	ppm	-0.08
Spiked Amount 50.000	Range 21 - 58		Recovery	=	12.26%#	
73) 2,4,6-Tribromophenol	7.479	330	7057	5.94	ppm	-0.07
Spiked Amount 50.000	Range 12 - 68		Recovery	=	11.88%#	
85) Terphenyl-d14	9.811	244	58687	6.91	ppm	-0.11
Spiked Amount 50.000	Range 16 - 65		Recovery	=	13.82%#	
Target Compounds						Qvalue
38) Naphthalene	5.393	128	40293	2.90	ppm	98
44) 2-Methylnaphthalene	5.965	141	13112	1.59	ppm	92
53) Biphenyl	6.345	154	6531	0.52	ppm	96
56) Acenaphthylene	6.698	152	19092	1.22	ppm	96
59) Acenaphthene	6.837	153	63212	6.50	ppm	99
62) Dibenzofuran	6.981	168	56473	4.34	ppm	88
66) Fluorene	7.260	166	78947	7.41	ppm	100
77) Phenanthrene	8.083	178	1139420	81.06	ppm	99
78) Anthracene	8.126	178	246554	17.34	ppm	99
79) Carbazole	8.303	167	108562	7.91	ppm	98
81) Fluoranthene	9.335	202	1603986	95.29	ppm	98
84) Pyrene	9.602	202	1278470	91.77	ppm	98
88) Benzo[a]anthracene	11.218	228	621906	47.19	ppm	99
90) Chrysene	11.260	228	527657	44.84	ppm	96
91) bis(2-Ethylhexyl)phtha...	11.351	149	62672	8.41	ppm	96
94) Benzo[b]fluoranthene	12.721	252	653641	58.27	ppm	98
95) Benzo[k]fluoranthene	12.747	252	161096	15.17	ppm	96
96) Benzo[a]pyrene	13.143	252	427895	44.12	ppm	94
97) Indeno[1,2,3-cd]pyrene	14.534	276	249988	22.49	ppm	92
99) Dibenz[a,h]anthracene	14.544	278	73712	8.17	ppm	94
101) Benzo[g,h,i]perylene	14.871	276	224552	24.47	ppm	92

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48485.D
Acq On : 11 May 2015 11:53 pm
Operator : sarad
Sample : jb94209-9
Misc : op83787,e2p2069,30.4,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 12 09:09:42 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

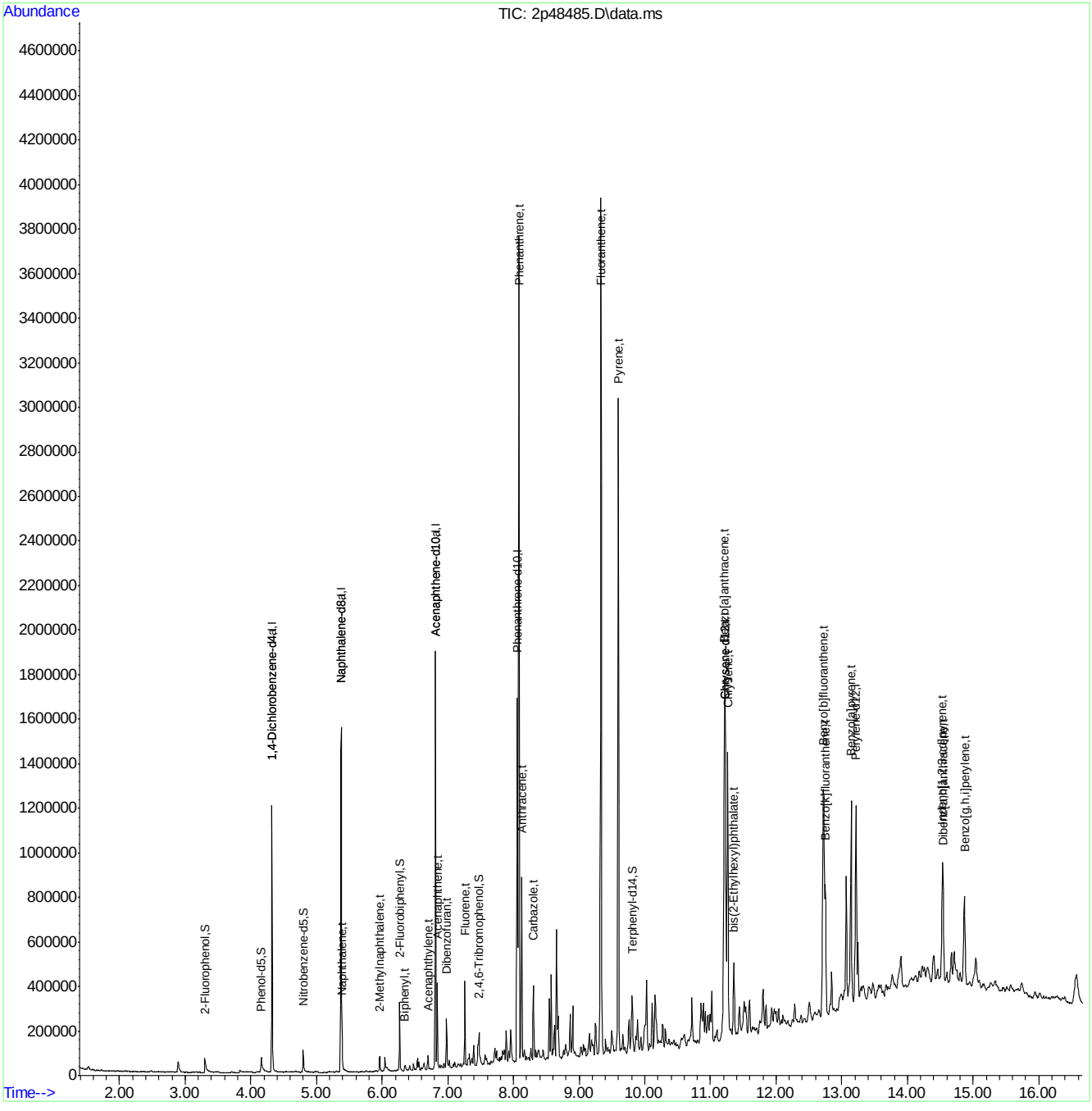
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

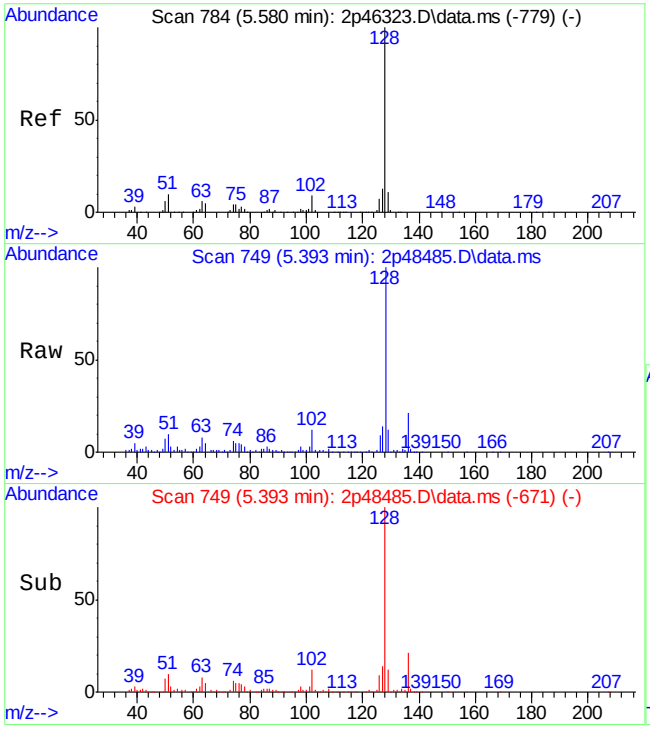
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48485.D
Acq On : 11 May 2015 11:53 pm
Operator : sarad
Sample : jb94209-9
Misc : op83787,e2p2069,30.4,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 12 09:09:42 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

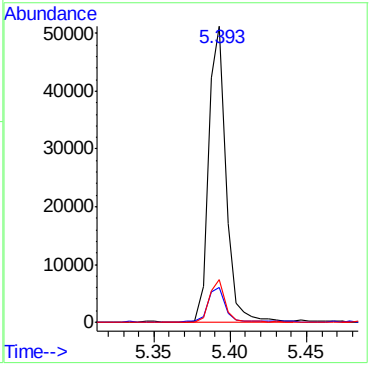


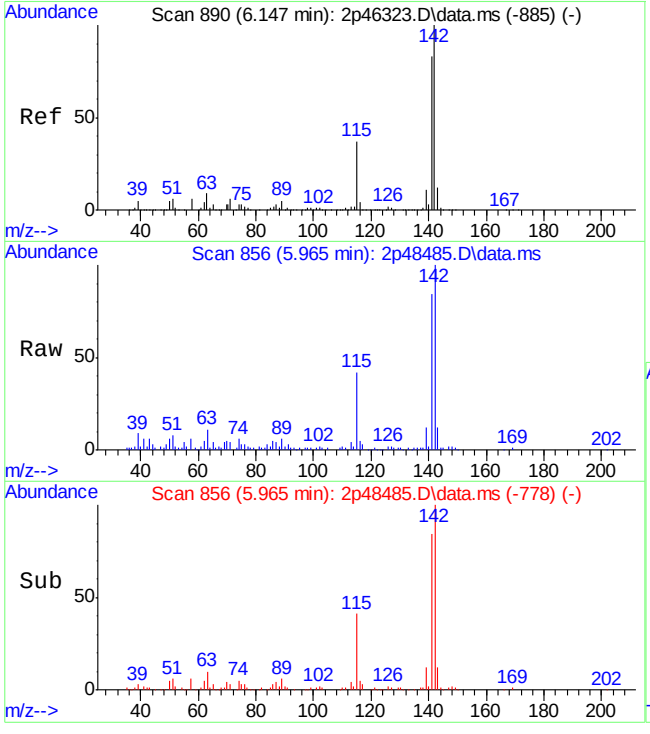


#38
Naphthalene
Concen: 2.90 ppm
RT: 5.393 min Scan# 749
Delta R.T. -0.080 min
Lab File: 2p48485.D
Acq: 11 May 2015 11:53 pm

Tgt Ion:128 Resp: 40293

Ion	Ratio	Lower	Upper
128	100		
129	11.5	0.0	41.0
127	14.2	0.0	43.4

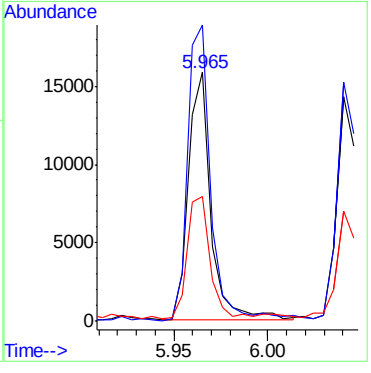


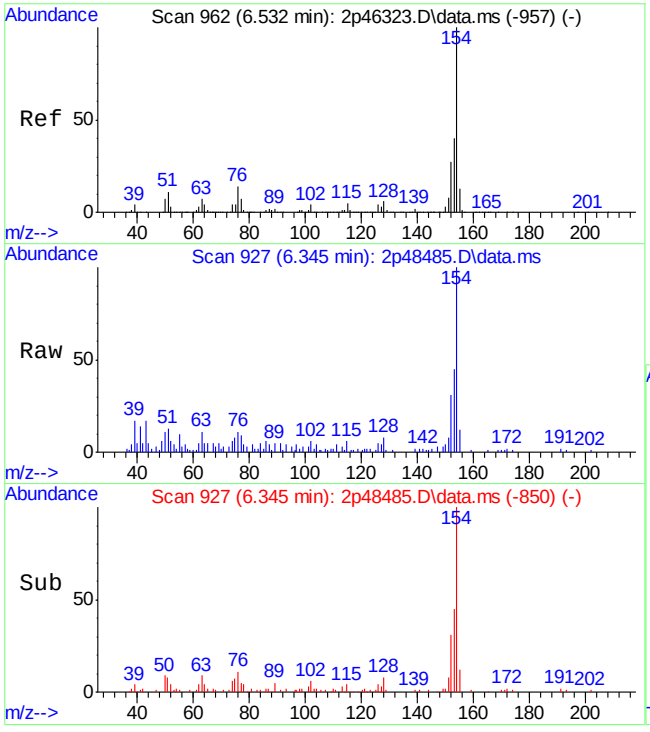


#44
2-Methylnaphthalene
Concen: 1.59 ppm
RT: 5.965 min Scan# 856
Delta R.T. -0.080 min
Lab File: 2p48485.D
Acq: 11 May 2015 11:53 pm

Tgt Ion:141 Resp: 13112

Ion	Ratio	Lower	Upper
141	100		
142	119.1	85.1	145.1
115	49.1	6.3	66.3

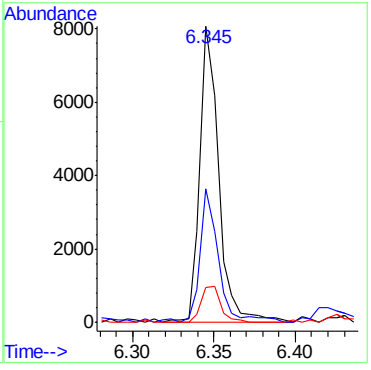


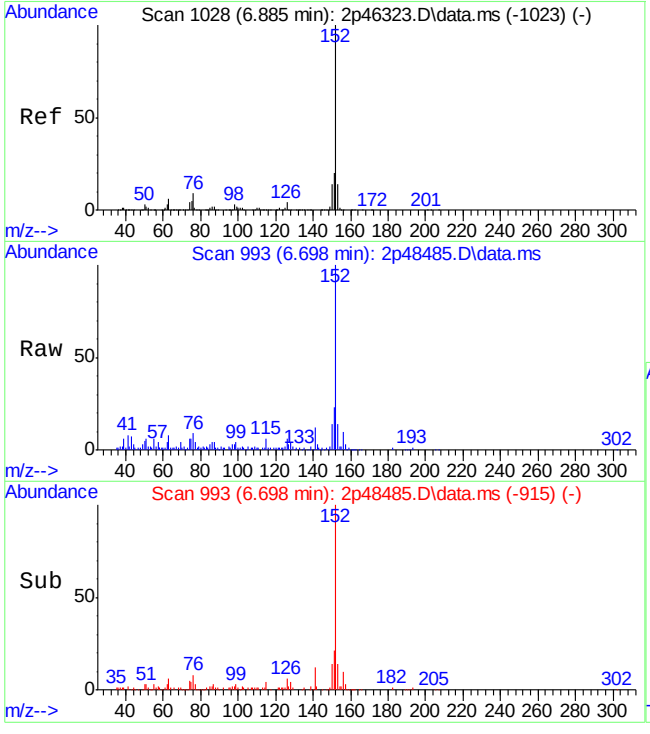


#53
Biphenyl
Concen: 0.52 ppm
RT: 6.345 min Scan# 927
Delta R.T. -0.086 min
Lab File: 2p48485.D
Acq: 11 May 2015 11:53 pm

Tgt Ion:154 Resp: 6531

Ion	Ratio	Lower	Upper
154	100		
153	44.8	12.1	72.1
155	11.4	0.0	43.1

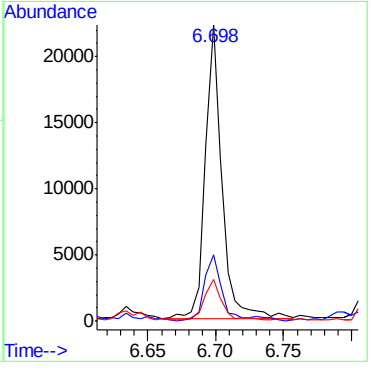




#56
Acenaphthylene
Concen: 1.22 ppm
RT: 6.698 min Scan# 993
Delta R.T. -0.080 min
Lab File: 2p48485.D
Acq: 11 May 2015 11:53 pm

Tgt Ion:152 Resp: 19092

Ion	Ratio	Lower	Upper
152	100		
151	22.2	0.0	49.7
153	13.4	0.0	42.8



9.1.19

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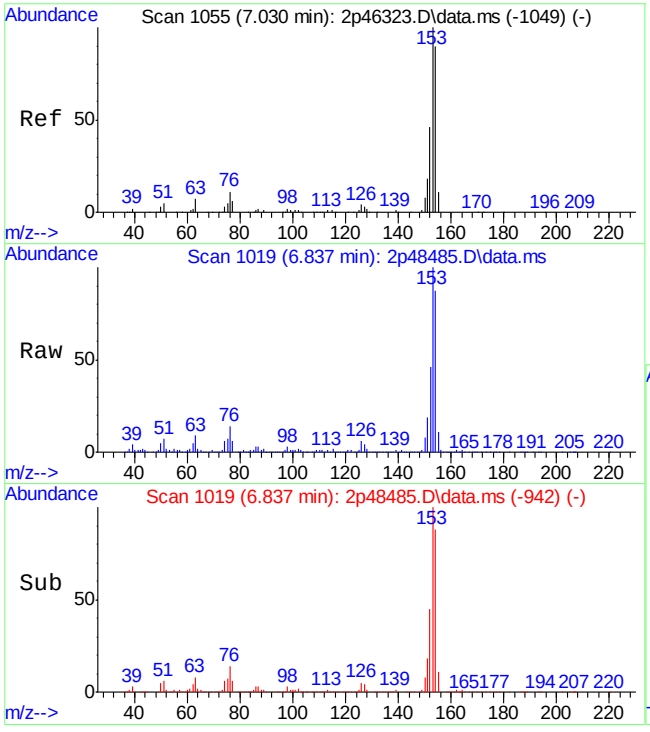
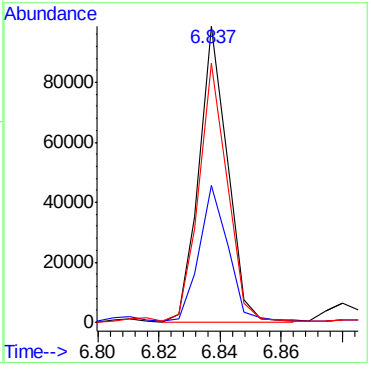
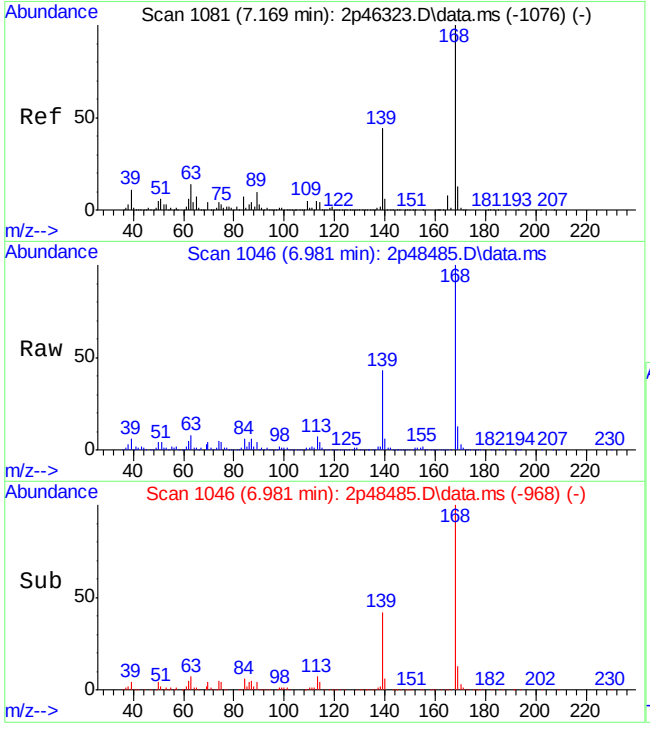


#59
Acenaphthene
Concen: 6.50 ppm
RT: 6.837 min Scan# 1019
Delta R.T. -0.086 min
Lab File: 2p48485.D
Acq: 11 May 2015 11:53 pm

Tgt Ion:153 Resp: 63212

Ion	Ratio	Lower	Upper
153	100		
152	45.9	16.9	76.9
154	87.4	58.3	118.3

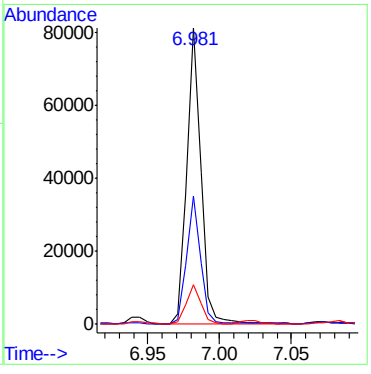




#62
Dibenzofuran
Concen: 4.34 ppm
RT: 6.981 min Scan# 1046
Delta R.T. -0.080 min
Lab File: 2p48485.D
Acq: 11 May 2015 11:53 pm

Tgt Ion:168 Resp: 56473

Ion	Ratio	Lower	Upper
168	100		
139	43.0	3.6	63.6
169	13.3	0.0	43.3



9.1.19

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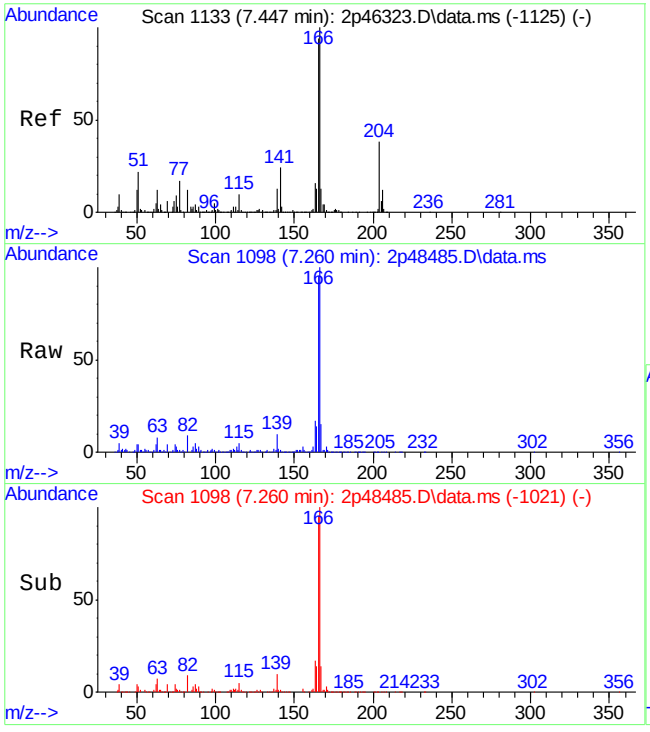
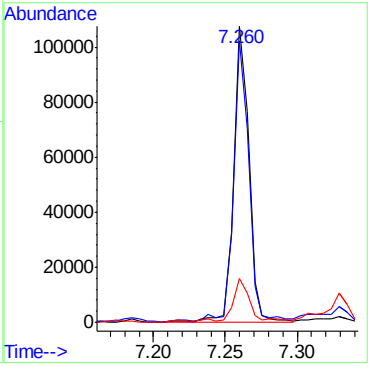
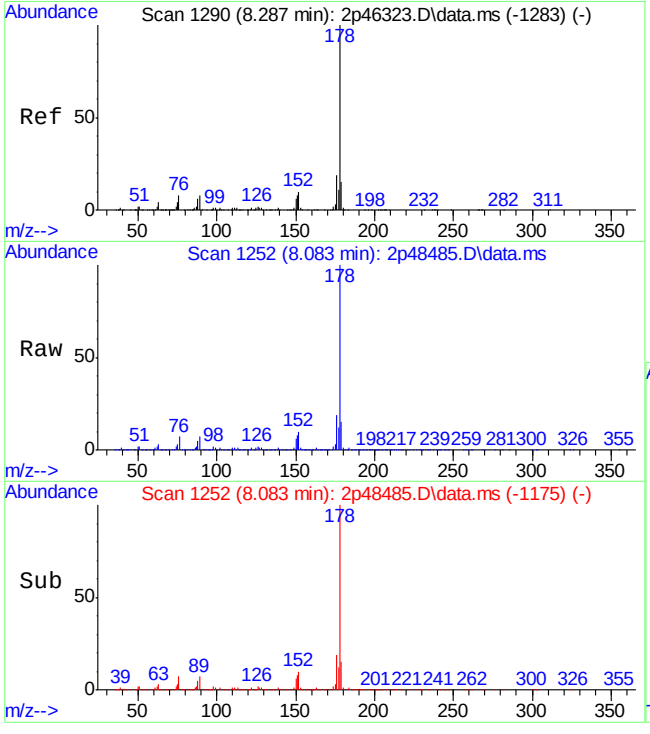


#66
Fluorene
Concen: 7.41 ppm
RT: 7.260 min Scan# 1098
Delta R.T. -0.086 min
Lab File: 2p48485.D
Acq: 11 May 2015 11:53 pm

Tgt Ion:166 Resp: 78947

Ion	Ratio	Lower	Upper
166	100		
165	94.9	65.0	125.0
167	14.2	0.0	43.9

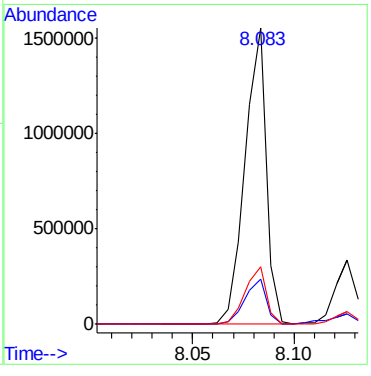




#77
Phenanthrene
Concen: 81.06 ppm
RT: 8.083 min Scan# 1252
Delta R.T. -0.086 min
Lab File: 2p48485.D
Acq: 11 May 2015 11:53 pm

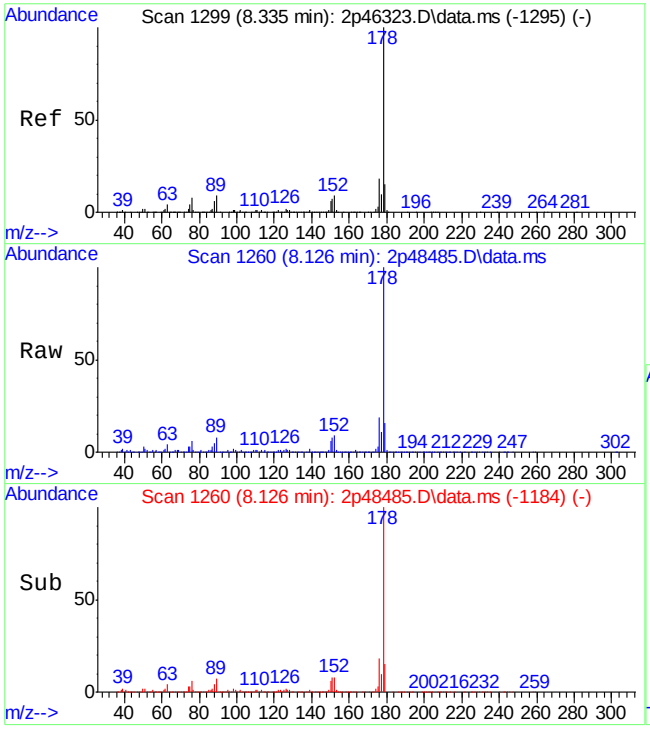
Tgt Ion:178 Resp: 1139420

Ion	Ratio	Lower	Upper
178	100		
179	15.2	0.0	45.4
176	19.4	0.0	48.5



9.1.19

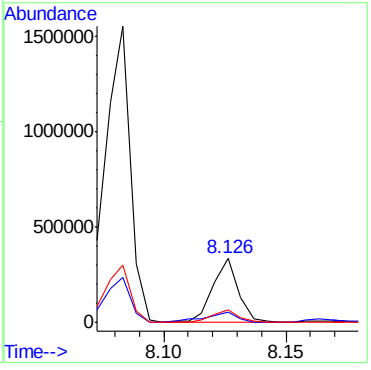
9

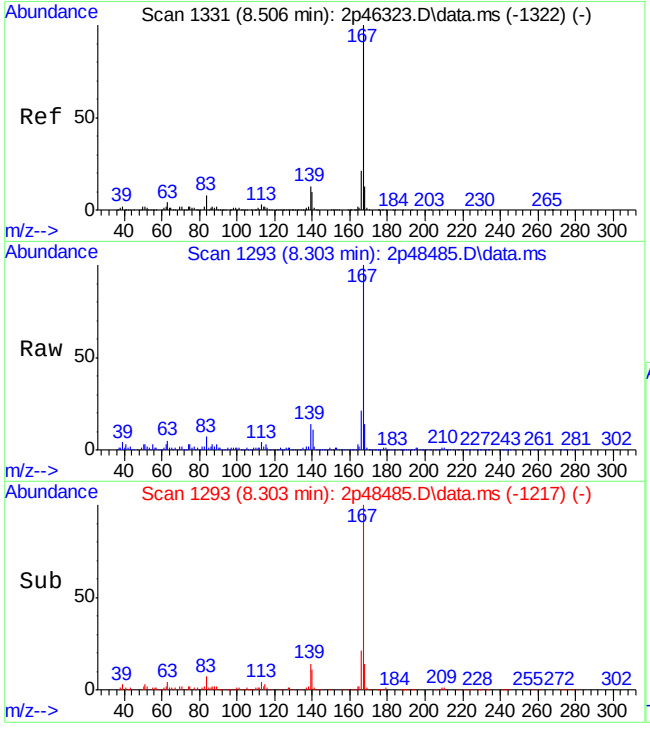


#78
Anthracene
Concen: 17.34 ppm
RT: 8.126 min Scan# 1260
Delta R.T. -0.091 min
Lab File: 2p48485.D
Acq: 11 May 2015 11:53 pm

Tgt Ion:178 Resp: 246554

Ion	Ratio	Lower	Upper
178	100		
179	15.5	0.0	45.2
176	18.8	0.0	48.1

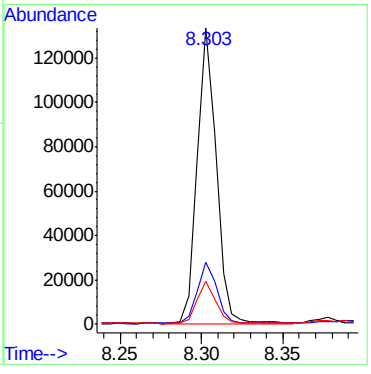




#79
Carbazole
Concen: 7.91 ppm
RT: 8.303 min Scan# 1293
Delta R.T. -0.091 min
Lab File: 2p48485.D
Acq: 11 May 2015 11:53 pm

Tgt Ion:167 Resp: 108562

Ion	Ratio	Lower	Upper
167	100		
166	20.4	0.0	50.6
139	14.1	0.0	41.7



9.1.19

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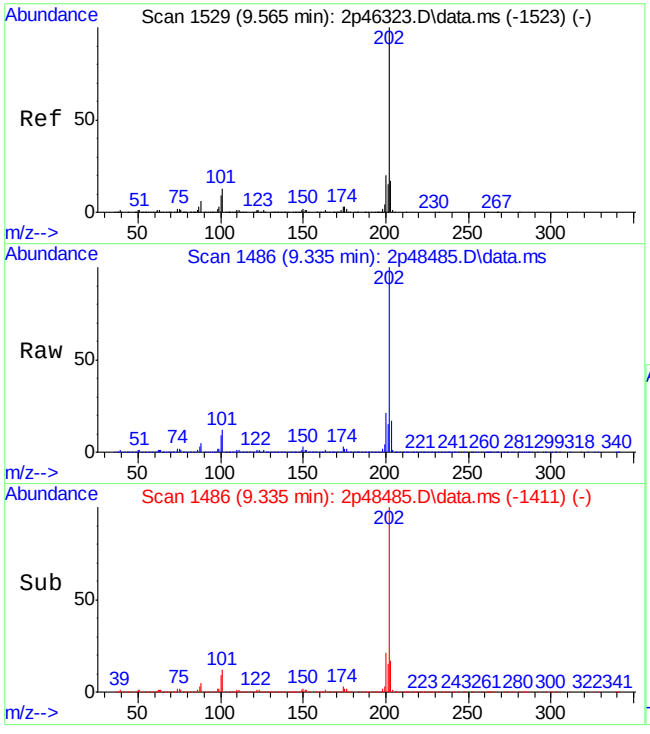
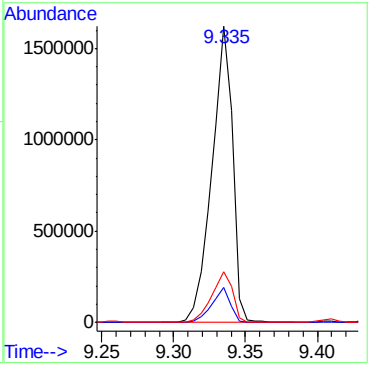
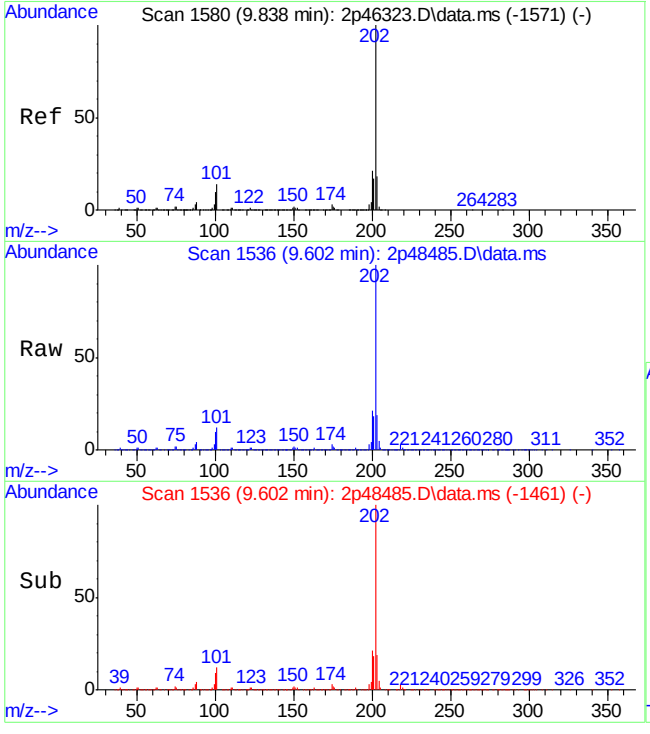


#81
Fluoranthene
Concen: 95.29 ppm
RT: 9.335 min Scan# 1486
Delta R.T. -0.096 min
Lab File: 2p48485.D
Acq: 11 May 2015 11:53 pm

Tgt Ion:202 Resp: 1603986

Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	43.1
203	17.2	0.0	47.4

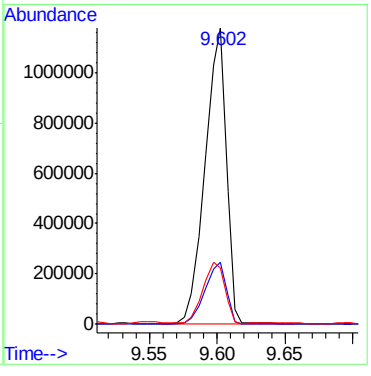




#84
Pyrene
Concen: 91.77 ppm
RT: 9.602 min Scan# 1536
Delta R.T. -0.096 min
Lab File: 2p48485.D
Acq: 11 May 2015 11:53 pm

Tgt Ion:202 Resp: 1278470

Ion	Ratio	Lower	Upper
202	100		
200	20.8	0.0	51.0
203	18.7	0.0	47.4



9.1.19

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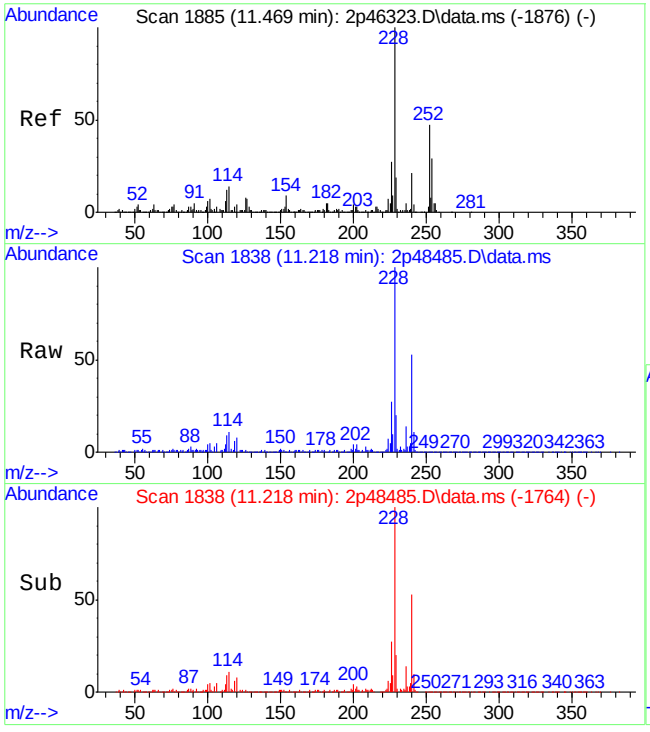
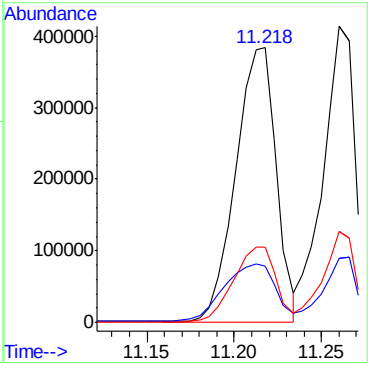
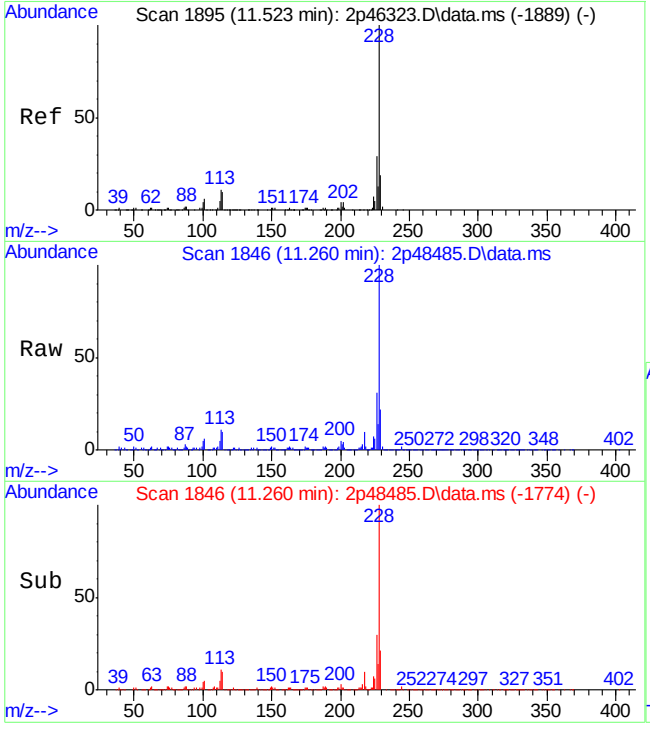


#88
Benzo[a]anthracene
Concen: 47.19 ppm
RT: 11.218 min Scan# 1838
Delta R.T. -0.102 min
Lab File: 2p48485.D
Acq: 11 May 2015 11:53 pm

Tgt Ion:228 Resp: 621906

Ion	Ratio	Lower	Upper
228	100		
229	19.6	0.0	50.1
226	27.0	0.0	57.2

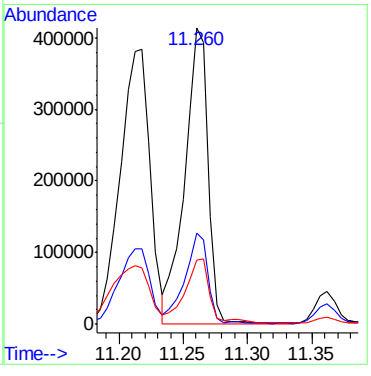




#90
Chrysene
Concen: 44.84 ppm
RT: 11.260 min Scan# 1846
Delta R.T. -0.112 min
Lab File: 2p48485.D
Acq: 11 May 2015 11:53 pm

Tgt Ion:228 Resp: 527657

Ion	Ratio	Lower	Upper
228	100		
226	30.6	0.0	58.8
229	21.0	0.0	49.1



9.1.19

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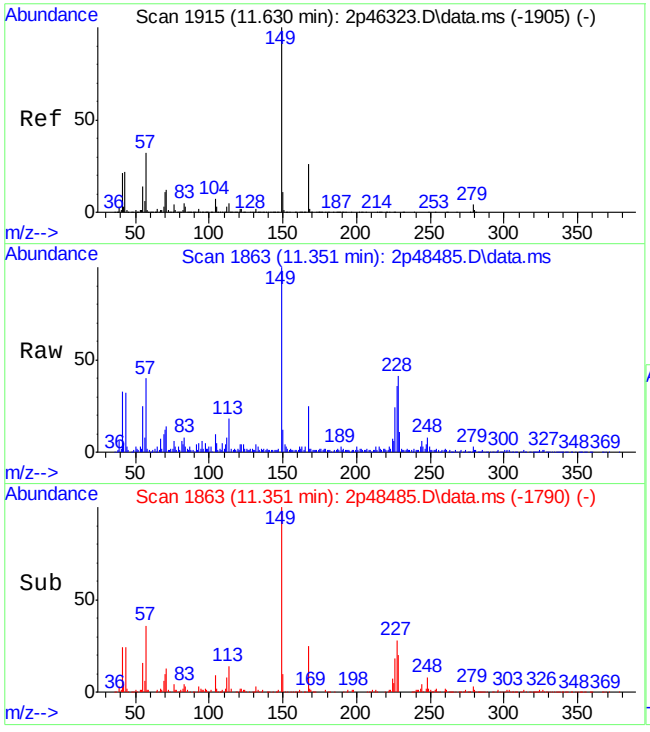
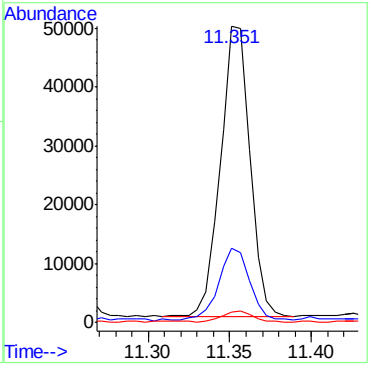
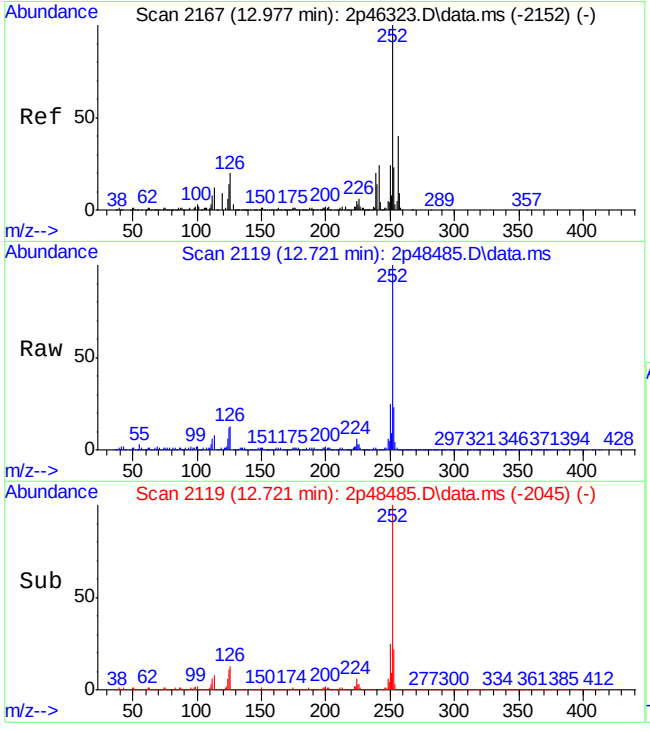


#91
bis(2-Ethylhexyl)phthalate
Concen: 8.41 ppm
RT: 11.351 min Scan# 1863
Delta R.T. -0.107 min
Lab File: 2p48485.D
Acq: 11 May 2015 11:53 pm

Tgt Ion:149 Resp: 62672

Ion	Ratio	Lower	Upper
149	100		
167	24.5	0.0	56.9
279	3.1	0.0	34.4

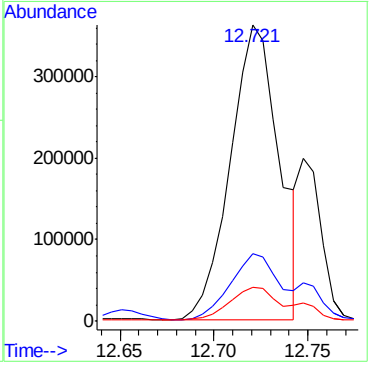




#94
Benzo[b]fluoranthene
Concen: 58.27 ppm
RT: 12.721 min Scan# 2119
Delta R.T. -0.102 min
Lab File: 2p48485.D
Acq: 11 May 2015 11:53 pm

Tgt Ion:252 Resp: 653641

Ion	Ratio	Lower	Upper
252	100		
253	21.9	0.0	52.1
125	11.3	0.0	42.9



9.1.19

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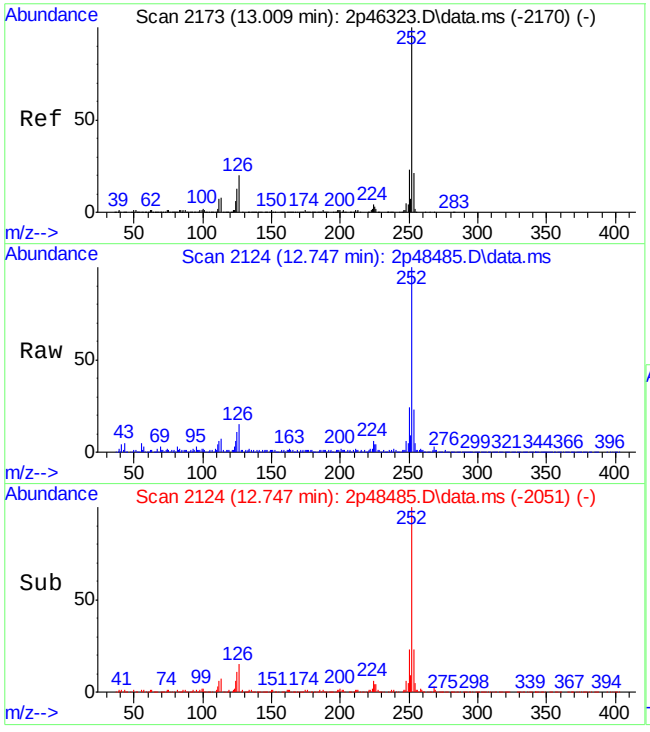
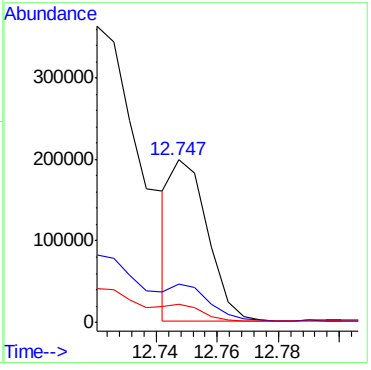
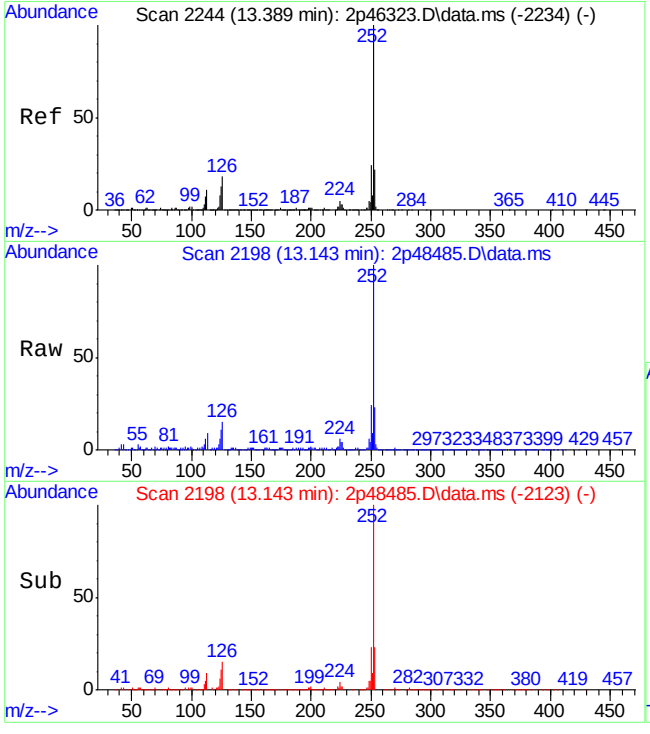


#95
Benzo[k]fluoranthene
Concen: 15.17 ppm
RT: 12.747 min Scan# 2124
Delta R.T. -0.107 min
Lab File: 2p48485.D
Acq: 11 May 2015 11:53 pm

Tgt Ion:252 Resp: 161096

Ion	Ratio	Lower	Upper
252	100		
253	22.8	0.0	51.5
125	10.7	0.0	42.7

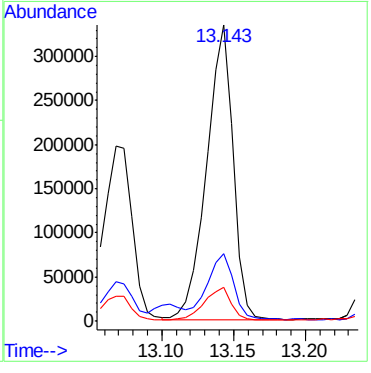


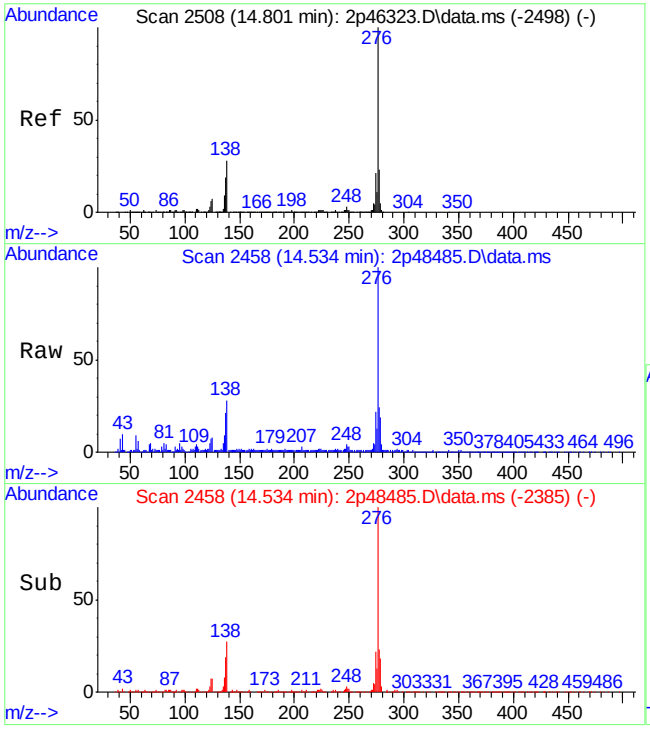


#96
Benzo[a]pyrene
Concen: 44.12 ppm
RT: 13.143 min Scan# 2198
Delta R.T. -0.096 min
Lab File: 2p48485.D
Acq: 11 May 2015 11:53 pm

Tgt Ion:252 Resp: 427895

Ion	Ratio	Lower	Upper
252	100		
253	20.2	0.0	51.8
125	10.9	0.0	45.1

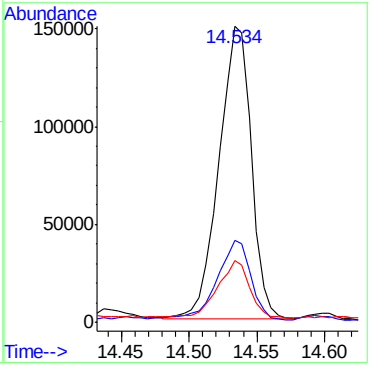


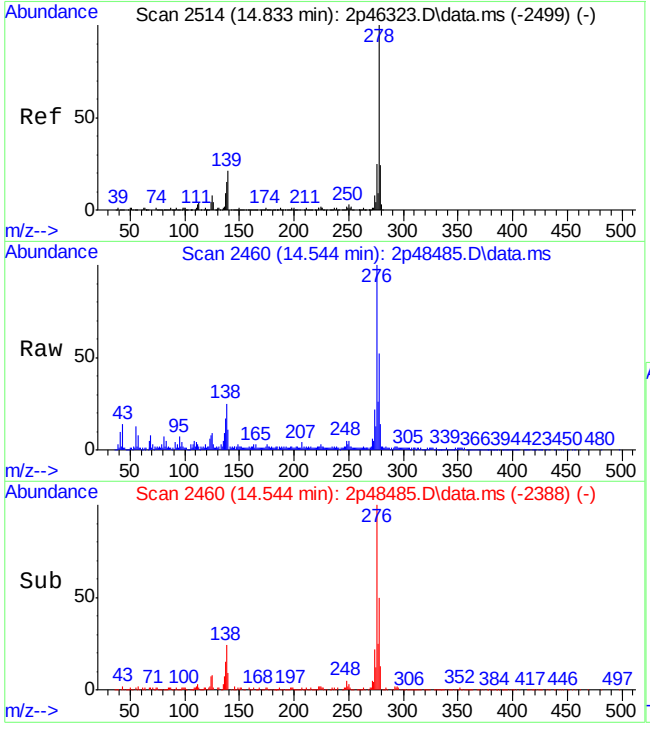


#97
Indeno[1,2,3-cd]pyrene
Concen: 22.49 ppm
RT: 14.534 min Scan# 2458
Delta R.T. -0.107 min
Lab File: 2p48485.D
Acq: 11 May 2015 11:53 pm

Tgt Ion:276 Resp: 249988

Ion	Ratio	Lower	Upper
276	100		
138	26.8	1.0	61.0
137	19.1	0.0	52.7

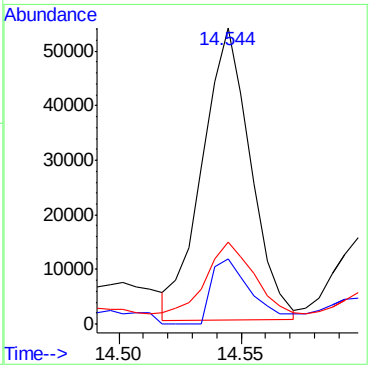


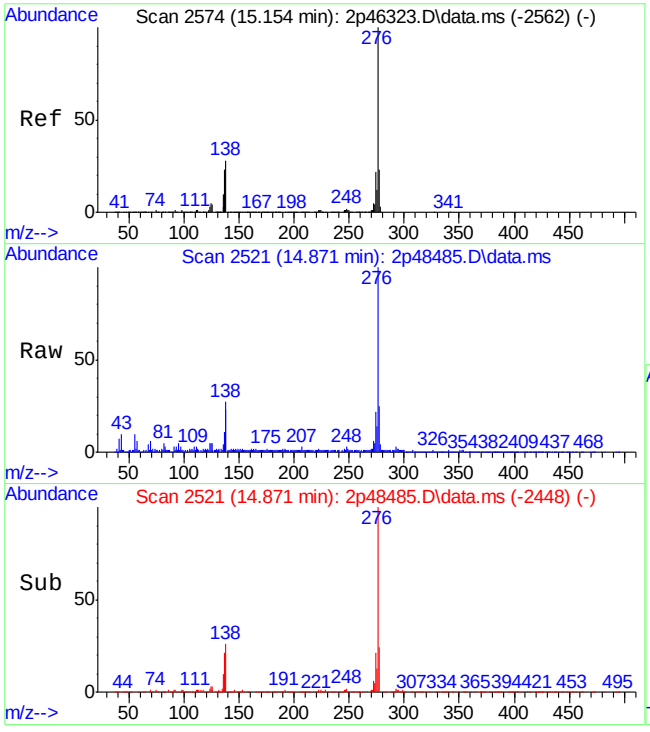


#99
Dibenz[a,h]anthracene
Concen: 8.17 ppm
RT: 14.544 min Scan# 2460
Delta R.T. -0.112 min
Lab File: 2p48485.D
Acq: 11 May 2015 11:53 pm

Tgt Ion:278 Resp: 73712

Ion	Ratio	Lower	Upper
278	100		
139	21.9	0.0	56.2
279	25.6	0.0	54.2

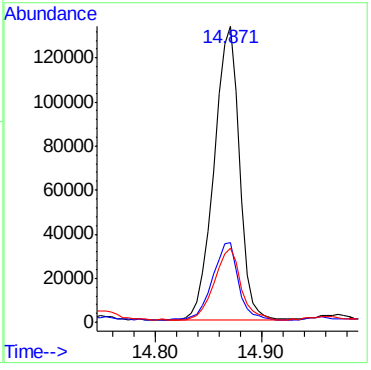




#101
Benzo[g,h,i]perylene
Concen: 24.47 ppm
RT: 14.871 min Scan# 2521
Delta R.T. -0.107 min
Lab File: 2p48485.D
Acq: 11 May 2015 11:53 pm

Tgt Ion:276 Resp: 224552

Ion	Ratio	Lower	Upper
276	100		
138	26.4	3.5	63.5
277	24.2	0.0	53.3



9.1.19

9

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48485.D
Acq On : 11 May 2015 11:53 pm
Operator : sarad
Sample : jb94209-9
Misc : op83787,e2p2069,30.4,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: 2p48485.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.895	275	282	298	rVB	47666	69741	1.82%	0.158%
2	3.302	351	358	375	rBV	64698	115293	3.01%	0.262%
3	4.157	511	518	530	rBV2	69479	119992	3.13%	0.272%
4	4.323	541	549	559	rVV	1198941	996287	26.00%	2.262%
5	4.794	630	637	648	rBV	102730	120057	3.13%	0.273%
6	5.377	738	746	755	rVV	1546819	1298105	33.88%	2.947%
7	6.265	907	912	923	rVB	309706	224464	5.86%	0.510%
8	6.810	1006	1014	1017	rBV	1879336	1455101	37.98%	3.304%
9	6.837	1017	1019	1025	rVB	381542	252193	6.58%	0.573%
10	6.981	1043	1046	1051	rBV	218965	162806	4.25%	0.370%
11	7.260	1089	1098	1104	rBV	388849	303752	7.93%	0.690%
12	7.329	1104	1111	1114	rBV2	54555	75600	1.97%	0.172%
13	7.393	1121	1123	1130	rVB	89670	71272	1.86%	0.162%
14	7.474	1130	1138	1148	rBV3	148601	249490	6.51%	0.566%
15	7.714	1176	1183	1186	rBV	67160	74968	1.96%	0.170%
16	7.891	1213	1216	1220	rVB	141368	112548	2.94%	0.256%
17	7.960	1226	1229	1239	rVB	145475	169643	4.43%	0.385%
18	8.057	1239	1247	1249	rBV	1638056	1448503	37.80%	3.289%
19	8.083	1249	1252	1255	rVB	3690328	2727502	71.18%	6.192%
20	8.126	1255	1260	1264	rBV	814758	633396	16.53%	1.438%
21	8.303	1290	1293	1298	rBV	333869	288821	7.54%	0.656%
22	8.549	1335	1339	1341	rBV	269554	237930	6.21%	0.540%
23	8.575	1341	1344	1347	rVV	364924	285698	7.46%	0.649%
24	8.624	1348	1353	1356	rVB2	141106	140505	3.67%	0.319%
25	8.656	1356	1359	1362	rBV	569376	539423	14.08%	1.225%
26	8.682	1362	1364	1373	rVB	192279	188861	4.93%	0.429%
27	8.795	1382	1385	1391	rVB5	51740	77533	2.02%	0.176%
28	8.864	1391	1398	1401	rBV	190298	205106	5.35%	0.466%
29	8.902	1401	1405	1410	rVB	214060	198084	5.17%	0.450%
30	9.153	1446	1452	1455	rBV	98883	130257	3.40%	0.296%
31	9.249	1467	1470	1476	rBV2	141843	169306	4.42%	0.384%
32	9.335	1476	1486	1493	rVB	3845935	3831716	100.00%	8.699%
33	9.404	1494	1499	1503	rBV2	66704	77647	2.03%	0.176%
34	9.495	1512	1516	1523	rBV3	100828	147433	3.85%	0.335%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48485.D
Acq On : 11 May 2015 11:53 pm
Operator : sarad
Sample : jb94209-9
Misc : op83787,e2p2069,30.4,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

35	9.597	1528	1535	1540	rBV2	2931626	3446056	89.94%	7.824%
36	9.667	1543	1548	1552	rBV	72858	80368	2.10%	0.182%
37	9.757	1558	1565	1569	rBV	152814	187740	4.90%	0.426%
38	9.806	1569	1574	1581	rVB3	254491	380255	9.92%	0.863%
39	9.891	1581	1590	1595	rBV3	144834	274774	7.17%	0.624%
40	10.025	1603	1615	1621	rVB	317505	583822	15.24%	1.325%
41	10.110	1627	1631	1635	rVB	205875	228412	5.96%	0.519%
42	10.159	1635	1640	1648	rBV3	242929	425298	11.10%	0.966%
43	10.271	1658	1661	1665	rVB	102909	111084	2.90%	0.252%
44	10.314	1665	1669	1675	rBV2	84465	115030	3.00%	0.261%
45	10.560	1708	1715	1716	rBV7	49201	76020	1.98%	0.173%
46	10.603	1717	1723	1729	rVB6	57626	131473	3.43%	0.298%
47	10.720	1736	1745	1750	rVV	201262	279985	7.31%	0.636%
48	10.854	1765	1770	1774	rBV2	179464	286896	7.49%	0.651%
49	10.891	1774	1777	1780	rVV	164435	192027	5.01%	0.436%
50	10.923	1780	1783	1786	rVV	123859	132597	3.46%	0.301%
51	10.961	1786	1790	1793	rVV3	97447	127418	3.33%	0.289%
52	10.993	1793	1796	1798	rVV	96649	112523	2.94%	0.255%
53	11.020	1798	1801	1806	rVB	226514	281337	7.34%	0.639%
54	11.100	1808	1816	1822	rVB2	52280	97066	2.53%	0.220%
55	11.223	1824	1839	1843	rBV2	1630194	3283783	85.70%	7.455%
56	11.260	1843	1846	1853	rVB2	1246347	1456257	38.01%	3.306%
57	11.357	1859	1864	1869	rVB2	323719	404113	10.55%	0.917%
58	11.442	1874	1880	1884	rBV2	120318	162603	4.24%	0.369%
59	11.512	1885	1893	1896	rBV2	132144	223627	5.84%	0.508%
60	11.592	1903	1908	1913	rBV	148814	204122	5.33%	0.463%
61	11.752	1933	1938	1940	rBV2	61308	99472	2.60%	0.226%
62	11.801	1941	1947	1952	rVV	198641	331708	8.66%	0.753%
63	11.849	1952	1956	1959	rVV2	123435	155445	4.06%	0.353%
64	11.934	1966	1972	1976	rVV4	101490	201414	5.26%	0.457%
65	11.972	1976	1979	1982	rVV3	93902	145762	3.80%	0.331%
66	12.036	1987	1991	1996	rVV3	85916	131587	3.43%	0.299%
67	12.105	2002	2004	2014	rVV4	50231	96096	2.51%	0.218%
68	12.282	2033	2037	2046	rVB3	85403	130953	3.42%	0.297%
69	12.507	2071	2079	2087	rBV5	88441	201209	5.25%	0.457%
70	12.592	2088	2095	2099	rBV10	36801	90088	2.35%	0.205%
71	12.721	2111	2119	2134	rBV	1017160	2461270	64.23%	5.588%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48485.D
Acq On : 11 May 2015 11:53 pm
Operator : sarad
Sample : jb94209-9
Misc : op83787,e2p2069,30.4,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

72	12.844	2134	2142	2147	rBV2	193054	303456	7.92%	0.689%
73	12.988	2160	2169	2174	rBV4	73016	228396	5.96%	0.519%
74	13.068	2175	2184	2189	rVV	587901	889792	23.22%	2.020%
75	13.143	2189	2198	2205	rVB	914771	1266470	33.05%	2.875%
76	13.218	2205	2212	2215	rBV2	885745	1194598	31.18%	2.712%
77	13.245	2215	2217	2221	rVV	259413	258941	6.76%	0.588%
78	13.298	2222	2227	2229	rVV5	52218	88341	2.31%	0.201%
79	13.330	2230	2233	2242	rVB9	62272	120635	3.15%	0.274%
80	13.411	2243	2248	2255	rBV5	50370	129926	3.39%	0.295%
81	13.469	2256	2259	2268	rVB6	67577	124426	3.25%	0.282%
82	13.566	2268	2277	2279	rBV4	61173	126013	3.29%	0.286%
83	13.678	2292	2298	2300	rBV5	54885	99088	2.59%	0.225%
84	13.769	2309	2315	2322	rBV6	60272	128650	3.36%	0.292%
85	13.903	2328	2340	2347	rBV8	146343	396571	10.35%	0.900%
86	14.181	2388	2392	2395	rBV5	51161	75814	1.98%	0.172%
87	14.229	2397	2401	2404	rBV5	49395	79141	2.07%	0.180%
88	14.309	2411	2416	2425	rVV8	73483	207048	5.40%	0.470%
89	14.400	2426	2433	2440	rVV3	125877	303503	7.92%	0.689%
90	14.459	2440	2444	2449	rVV4	67781	120880	3.15%	0.274%
91	14.539	2452	2459	2466	rVV2	547427	971367	25.35%	2.205%
92	14.598	2466	2470	2475	rVV2	55719	80266	2.09%	0.182%
93	14.667	2477	2483	2487	rVV	141562	234899	6.13%	0.533%
94	14.710	2487	2491	2504	rVV3	147108	387269	10.11%	0.879%
95	14.796	2504	2507	2512	rVV5	51578	87311	2.28%	0.198%
96	14.871	2513	2521	2528	rVB	394658	678779	17.71%	1.541%
97	15.042	2542	2553	2559	rBV2	124868	321680	8.40%	0.730%
98	15.571	2648	2652	2662	rVB2	33088	69683	1.82%	0.158%
99	15.743	2679	2684	2692	rVB2	48729	113340	2.96%	0.257%
100	16.572	2828	2839	2852	rBV5	123925	431962	11.27%	0.981%

Sum of corrected areas: 44046968

LSC Report - Integrated Chromatogram

```
Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48485.D
Acq On    : 11 May 2015  11:53 pm
Operator  : sarad
Sample    : jb94209-9
Misc      : op83787,e2p2069,30.4,,,5,1
ALS Vial  : 19   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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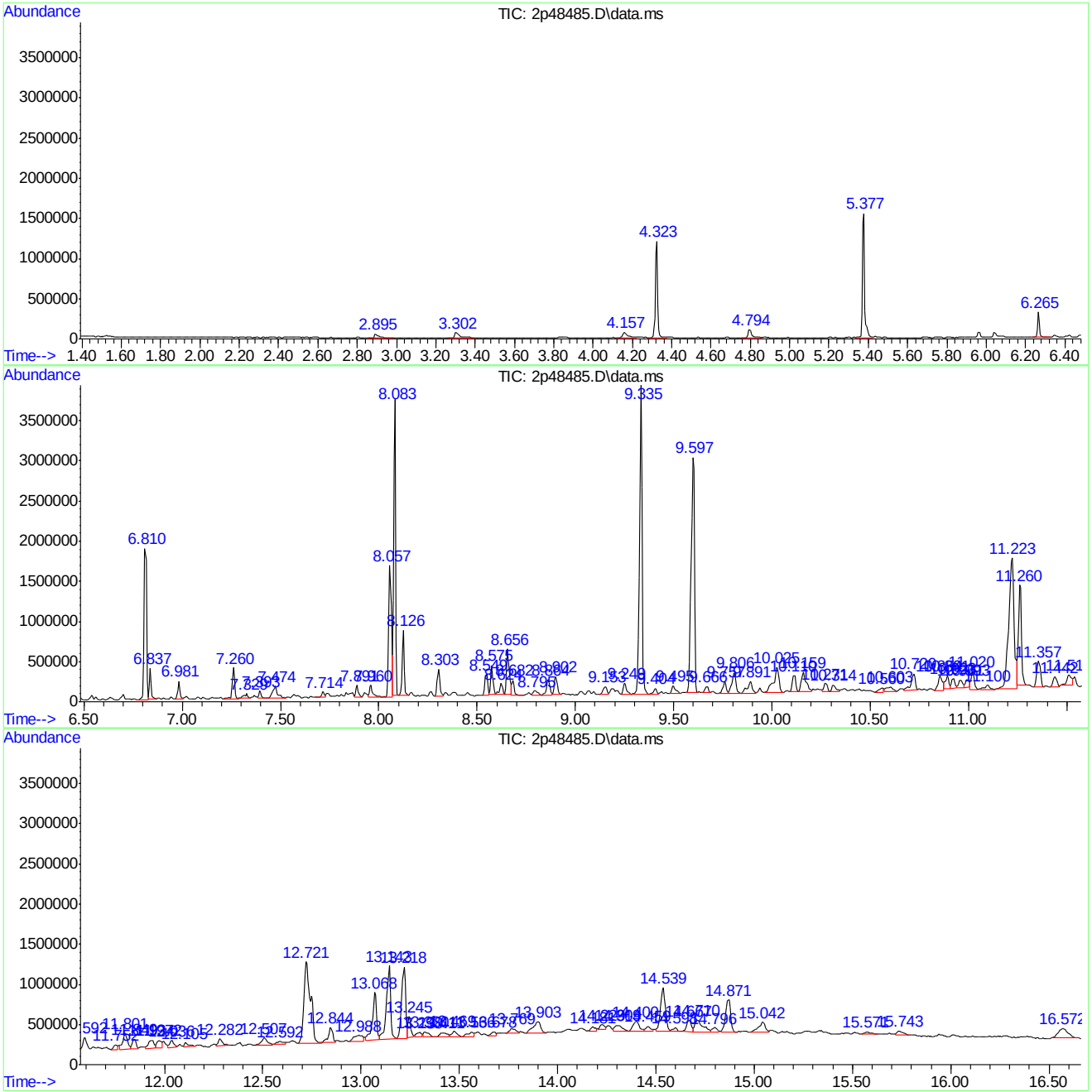


Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48485.D
Acq On : 11 May 2015 11:53 pm
Operator : sarad
Sample : jb94209-9
Misc : op83787,e2p2069,30.4,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

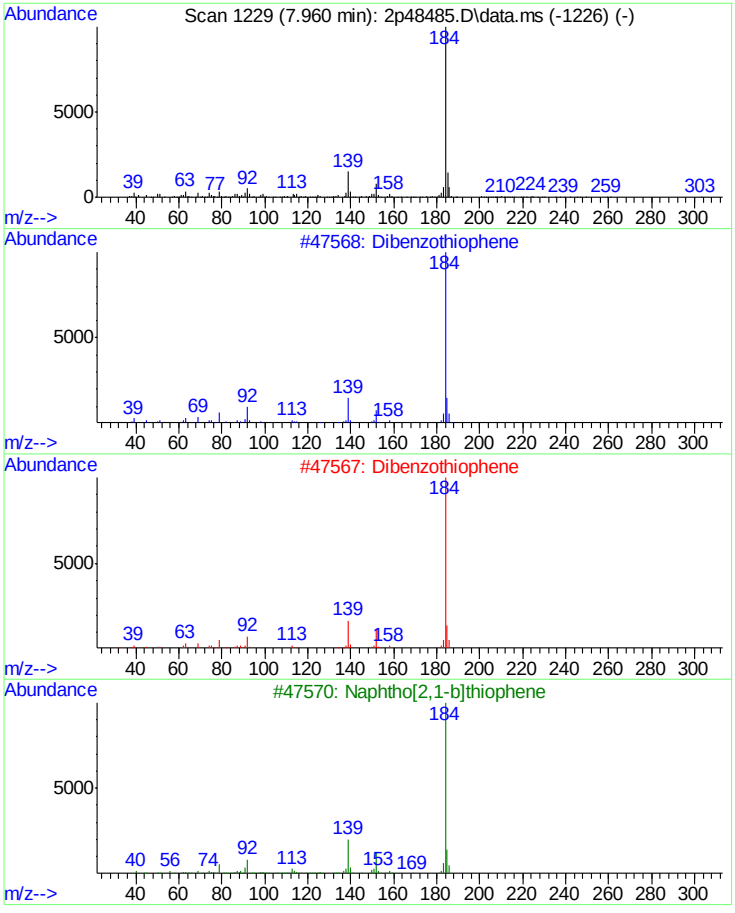
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

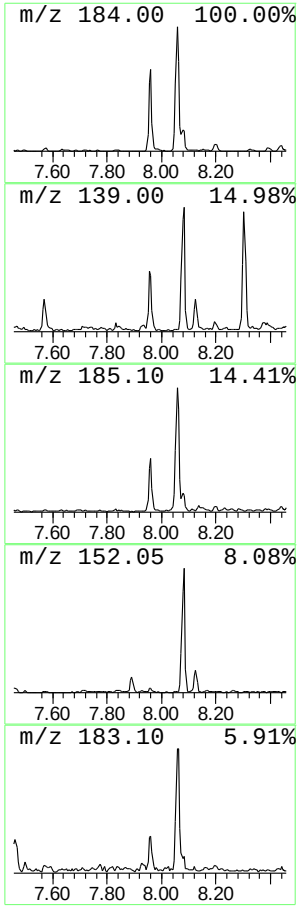
****

Peak Number 1 Dibenzothiophene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.960	4.68 ppm	169643	Phenanthrene-d10	8.057

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	95
2	Dibenzothiophene	184	C12H8S	000132-65-0	95
3	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
5	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48485.D
Acq On    : 11 May 2015  11:53 pm
Operator  : sarad
Sample    : jb94209-9
Misc      : op83787,e2p2069,30.4,,,5,1
ALS Vial  : 19   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```
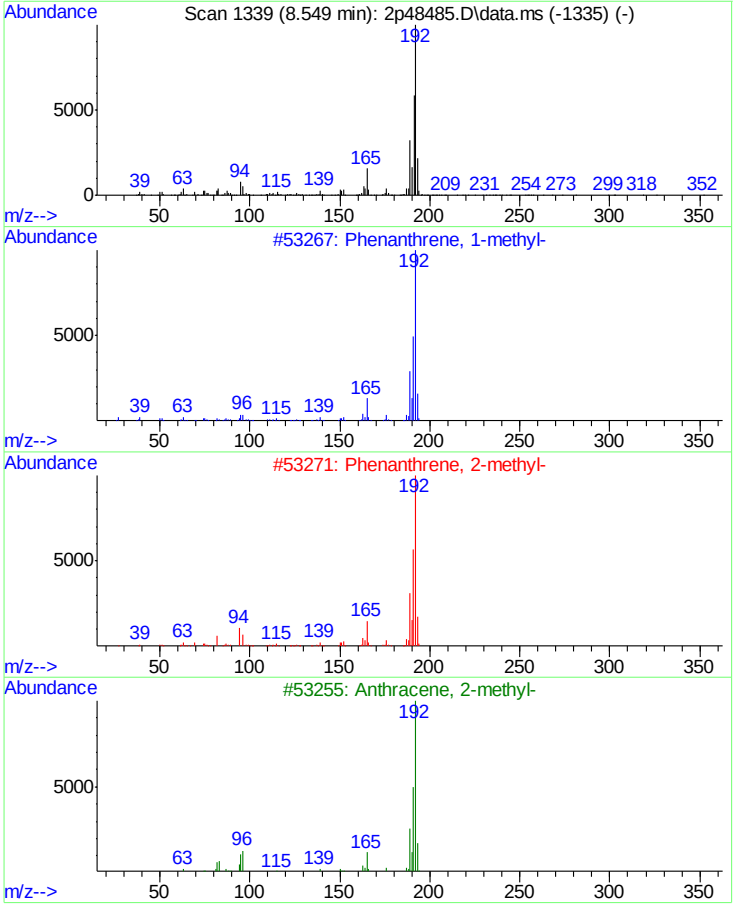
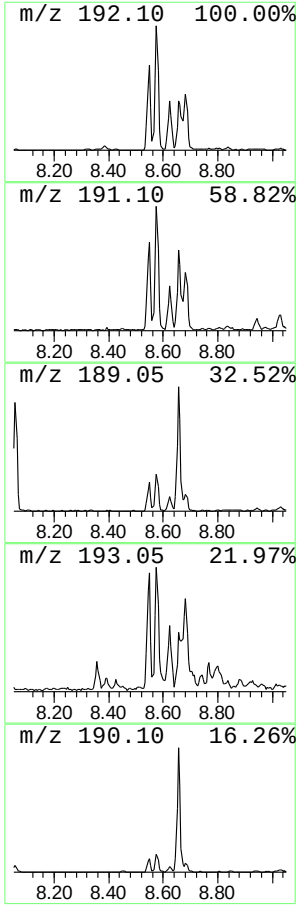

****

Peak Number 2 Phenanthrene methyl Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.549	6.57 ppm	237930	Phenanthrene-d10	8.057

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48485.D
Acq On    : 11 May 2015  11:53 pm
Operator  : sarad
Sample    : jb94209-9
Misc      : op83787,e2p2069,30.4,,,5,1
ALS Vial  : 19   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

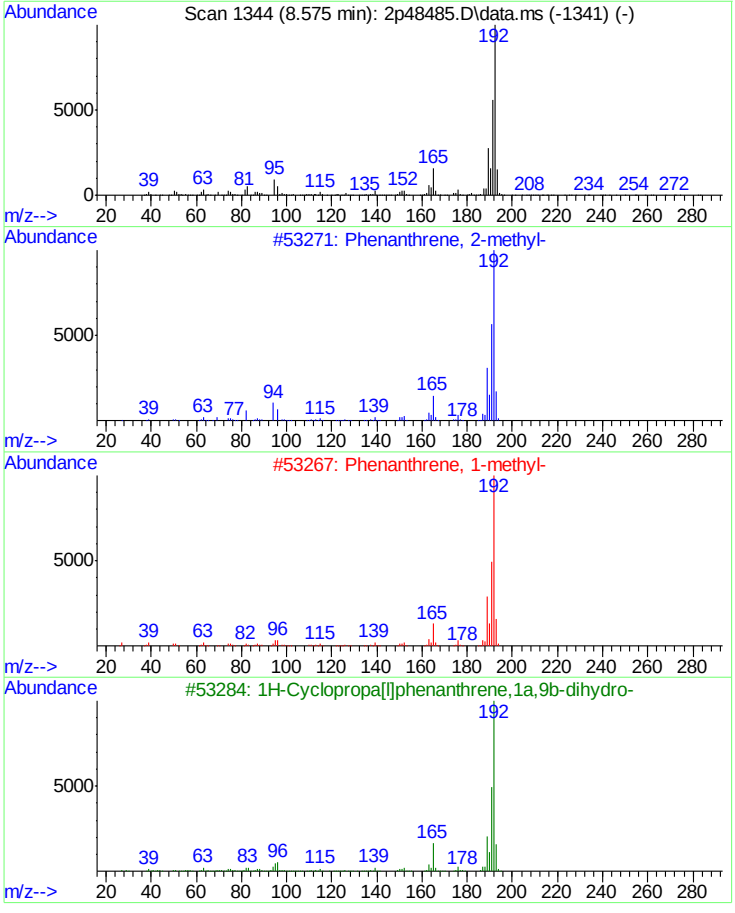
TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

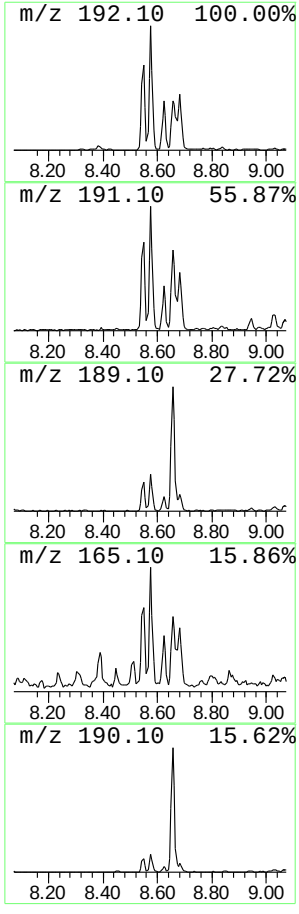
****

Peak Number 3 Phenanthrene methyl Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.575	7.89 ppm	285698	Phenanthrene-d10	8.057

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95





Library Search Compound Report

```
Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48485.D
Acq On    : 11 May 2015  11:53 pm
Operator  : sarad
Sample    : jb94209-9
Misc      : op83787,e2p2069,30.4,,,5,1
ALS Vial  : 19   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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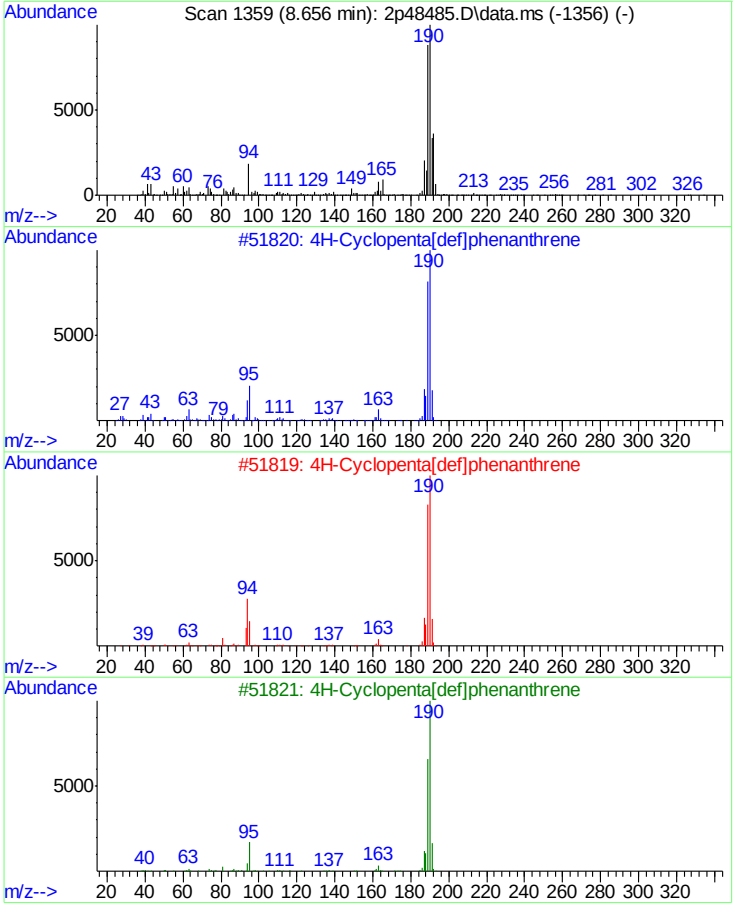
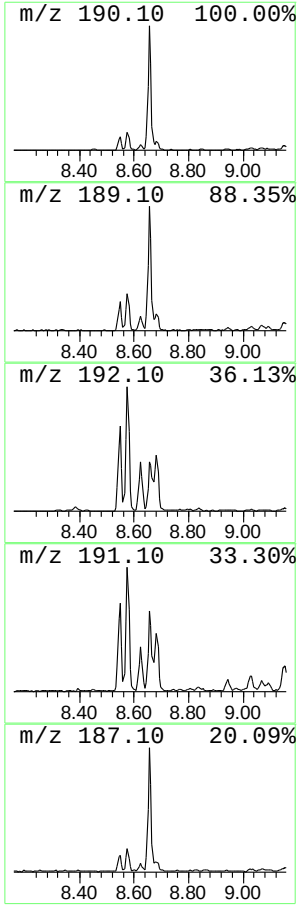
Peak Number 4 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.656	14.90 ppm	539423	Phenanthrene-d10	8.057

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	76
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	74
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	59
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	42
5	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	35





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Misc : op83787,e2p2069,30.4,,,5,1
ALS Vial : 19 Sample Multiplier: 1

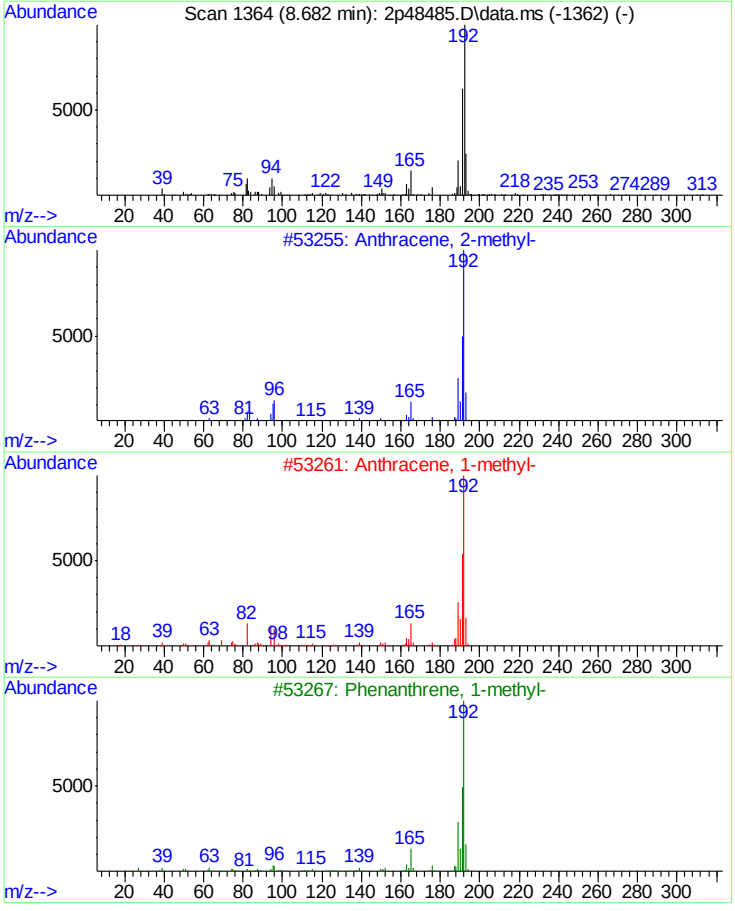
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

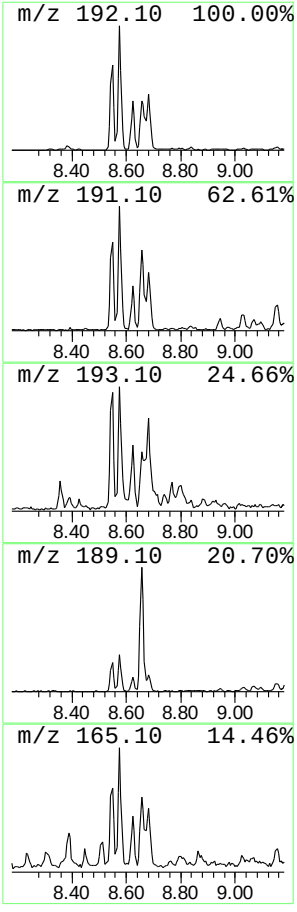
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 5 Anthracene methyl Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.682	5.22 ppm	188861	Phenanthrene-d10	8.057

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	83
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	81
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	76
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	74
5	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	74





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ALS Vial  : 19   Sample Multiplier: 1

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Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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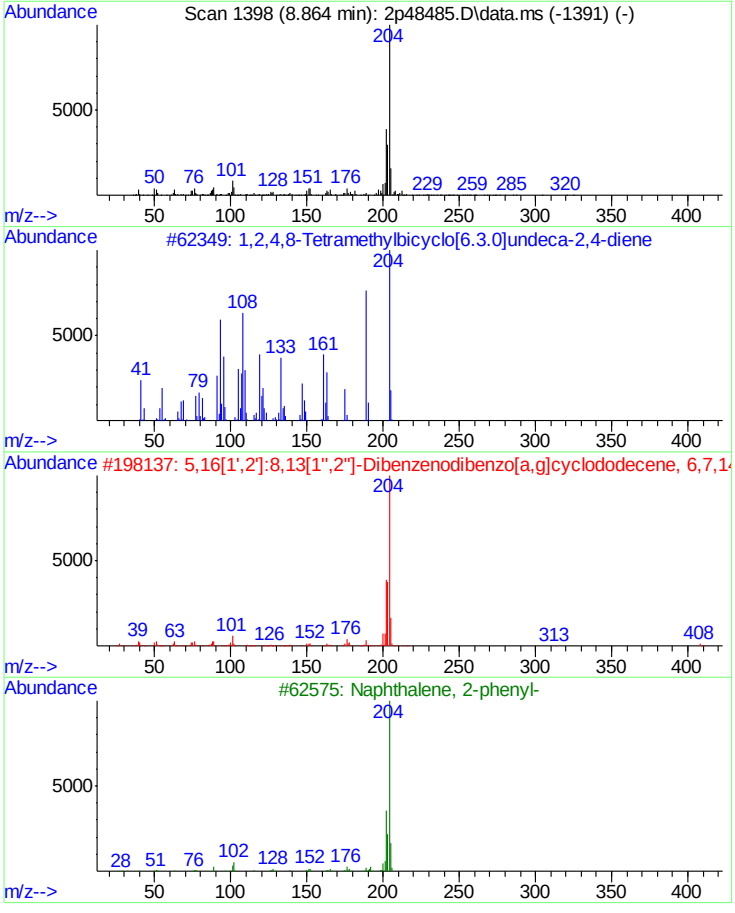
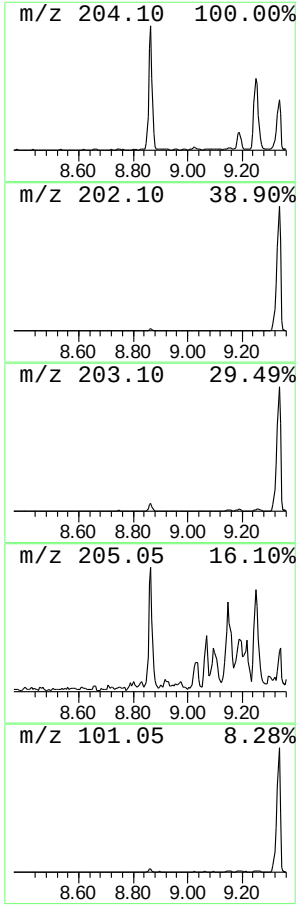
Peak Number 6 unknown Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.864	5.66 ppm	205106	Phenanthrene-d10	8.057

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	89
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	80
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70





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Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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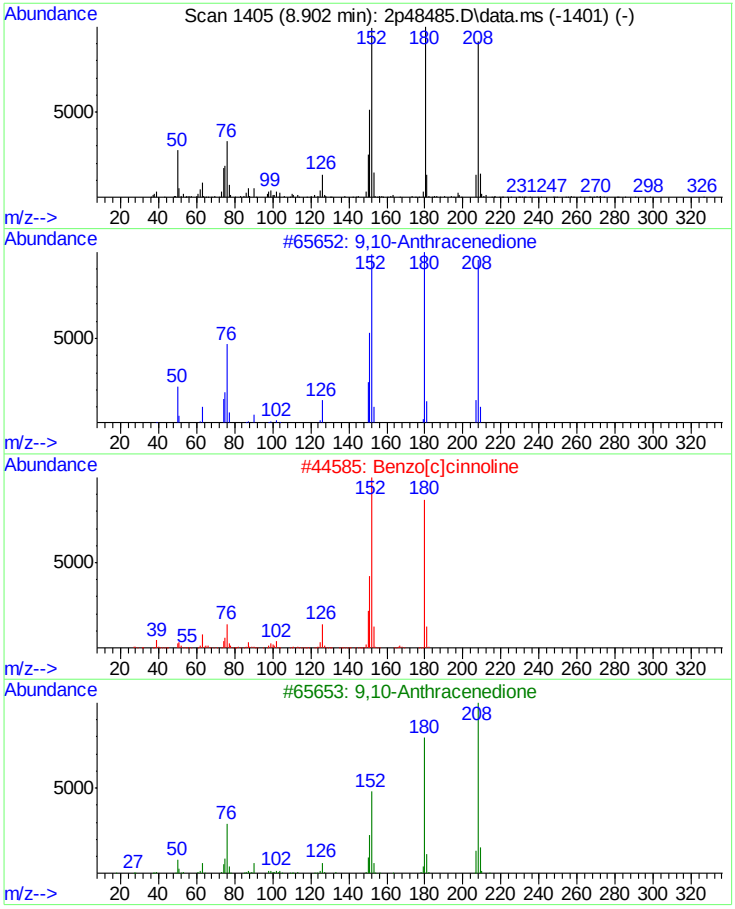
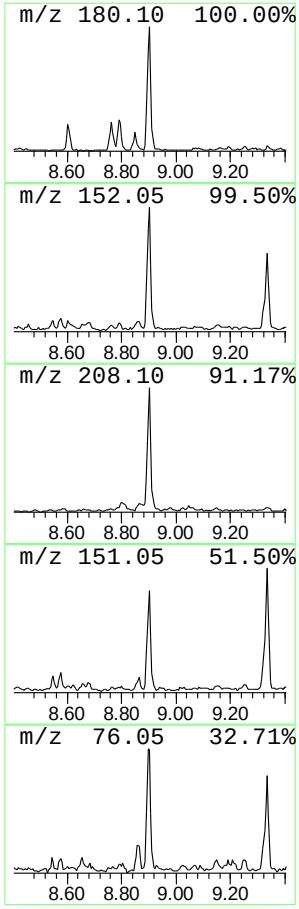
Peak Number 7 Anthracenedione Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.902	5.47 ppm	198084	Phenanthrene-d10	8.057

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	96
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	86
5	9H-Fluoren-9-one	180	C13H8O	000486-25-9	70





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ALS Vial  : 19   Sample Multiplier: 1

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Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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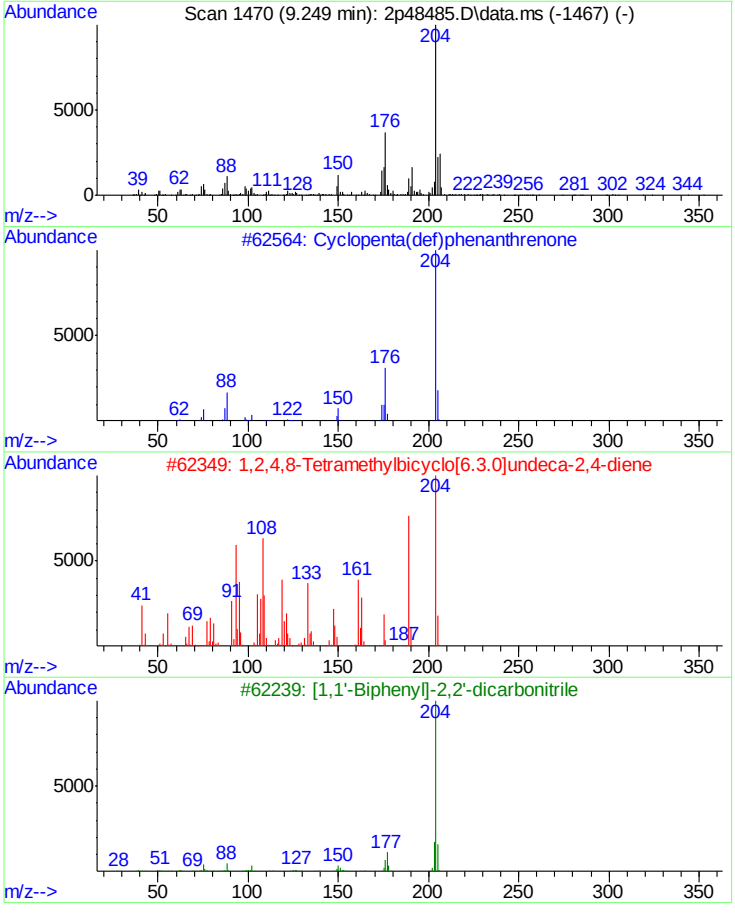
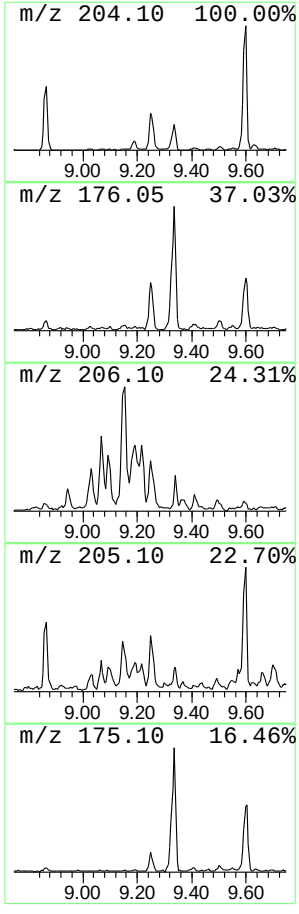
Peak Number 8 Cyclopenta(def)phenanthrenone Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.249	4.68 ppm	169306	Phenanthrene-d10	8.057

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	76
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	49
3	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	47
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	46
5	[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	46





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ALS Vial  : 19   Sample Multiplier: 1

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Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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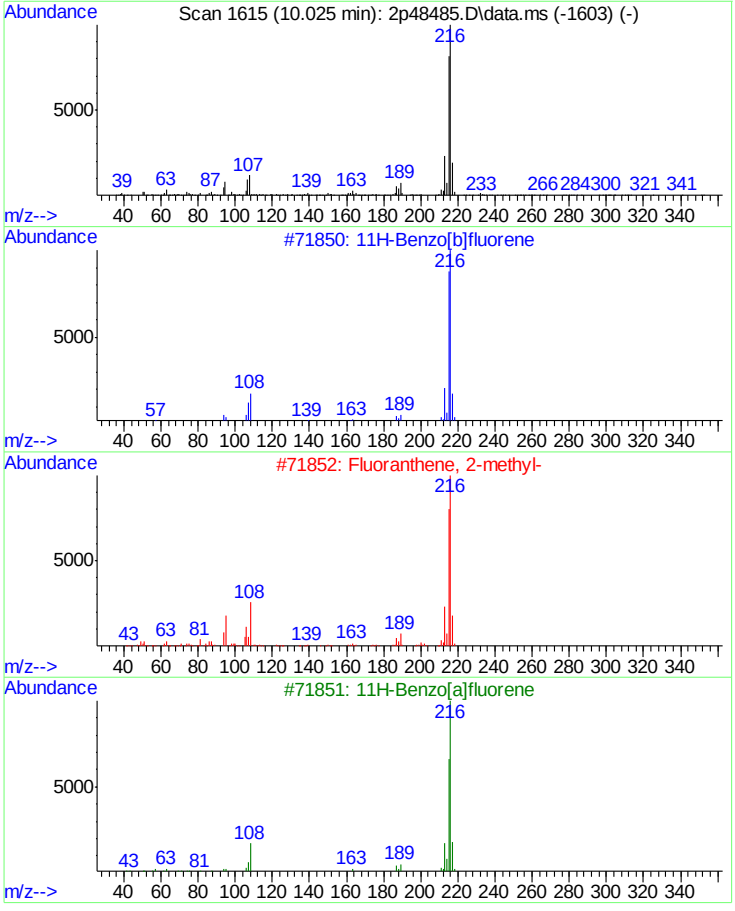
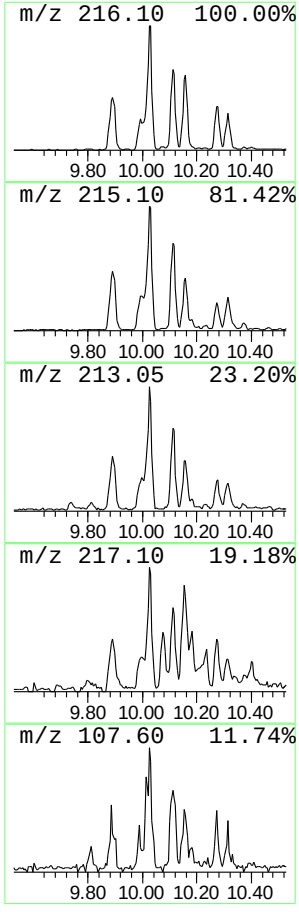
Peak Number 9 11H-Benzo[b]fluorene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.025	7.11 ppm	583822	Chrysene-d12	11.228

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	94
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93





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Misc : op83787,e2p2069,30.4,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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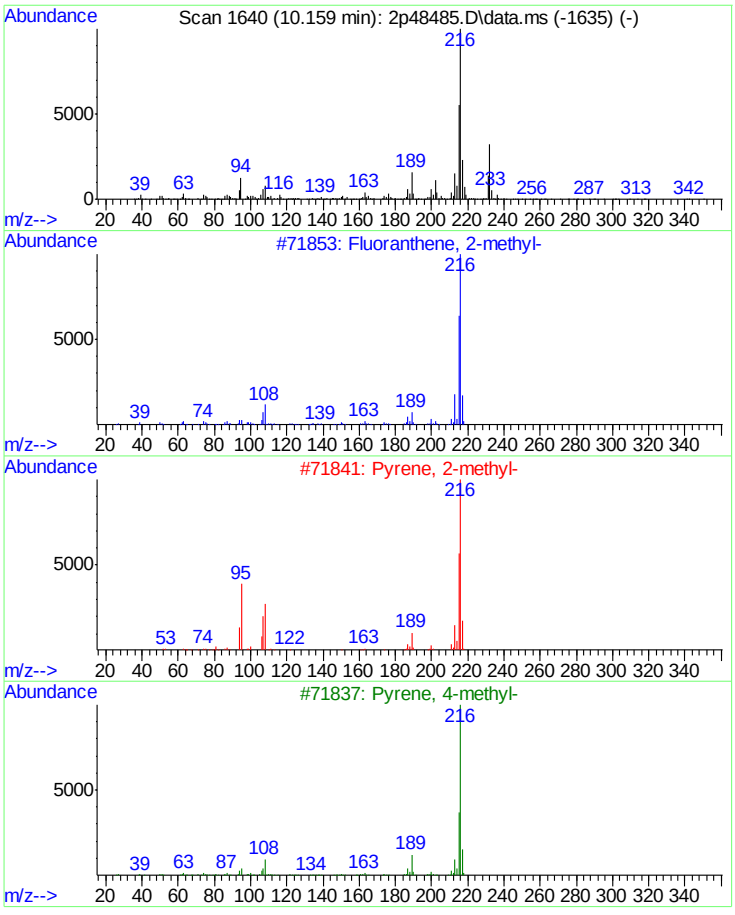
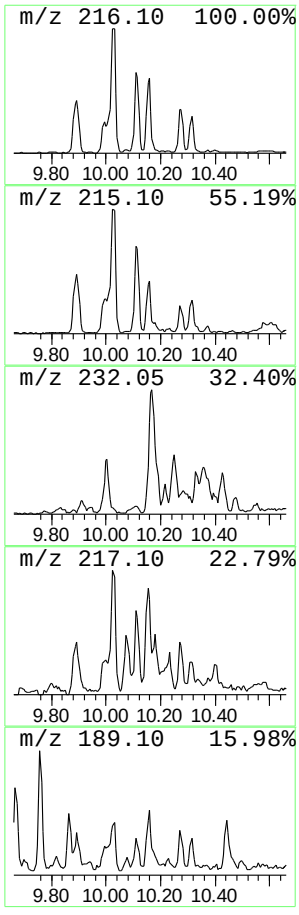
Peak Number 10 Pyrene methyl Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.159	5.18 ppm	425298	Chrysene-d12	11.228

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	92
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	89
3	Pyrene, 4-methyl-	216	C17H12	003353-12-6	76
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	70
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	70





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ALS Vial  : 19   Sample Multiplier: 1

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Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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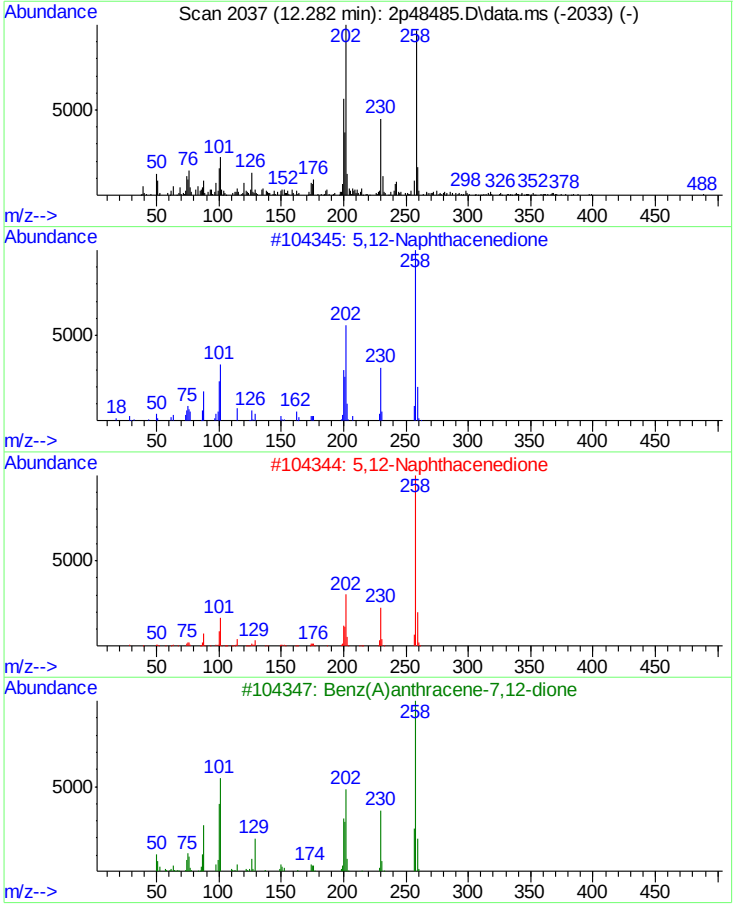
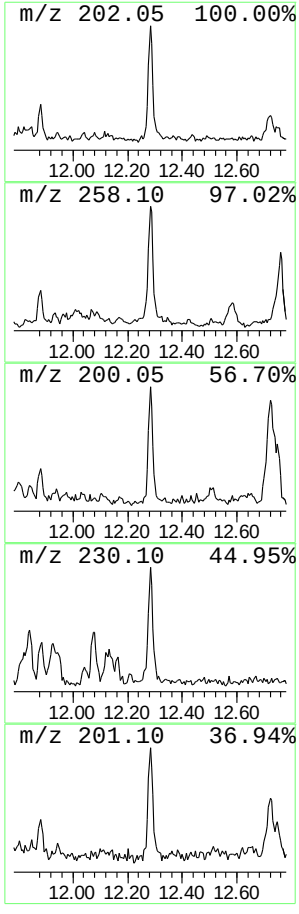
Peak Number 11 5,12-Naphthacenedione Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.282	4.38 ppm	130953	Perylene-d12	13.218

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,12-Naphthacenedione	258	C18H10O2	001090-13-7	94
2	5,12-Naphthacenedione	258	C18H10O2	001090-13-7	93
3	Benz(A)anthracene-7,12-dione	258	C18H10O2	002498-66-0	90
4	Piperazine, 1-methyl-4-(1,2,3,4-...	258	C17H26N2	055591-14-5	90
5	4,4'-Bis(tetrahydrothiopyran)	202	C10H18S2	116196-83-9	56





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Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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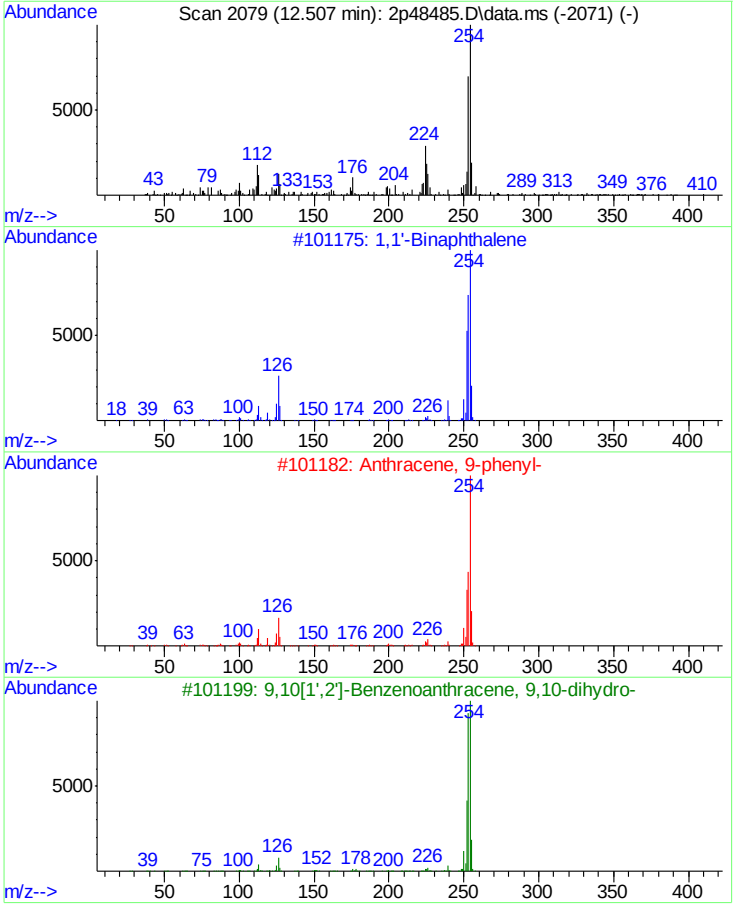
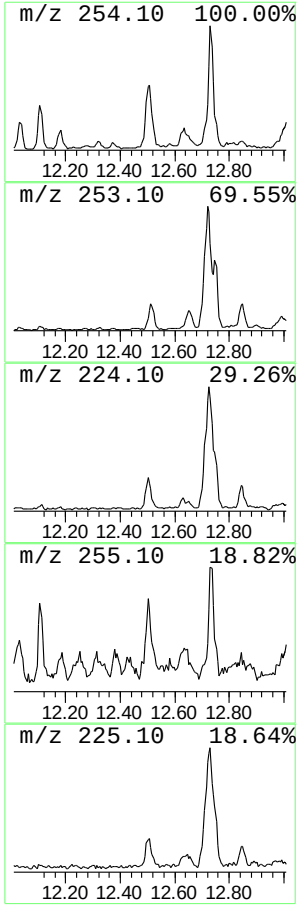
Peak Number 12 unknown Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.507	6.74 ppm	201209	Perylene-d12	13.218

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Binaphthalene	254	C20H14	000604-53-5	68
2	Anthracene, 9-phenyl-	254	C20H14	000602-55-1	64
3	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	62
4	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	62
5	1,2'-Binaphthalene	254	C20H14	004325-74-0	59





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ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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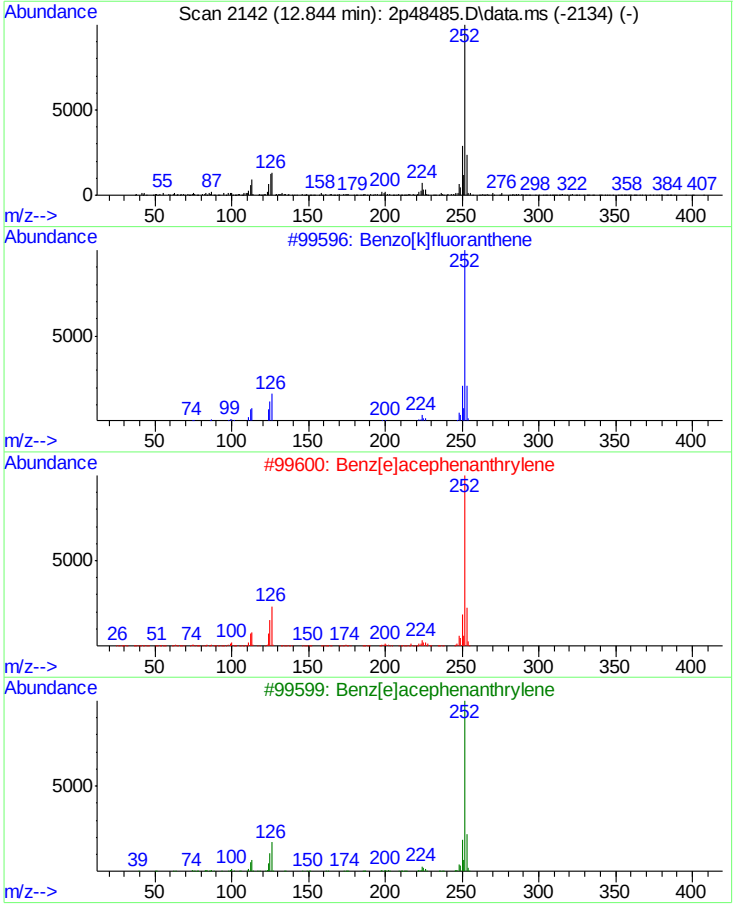
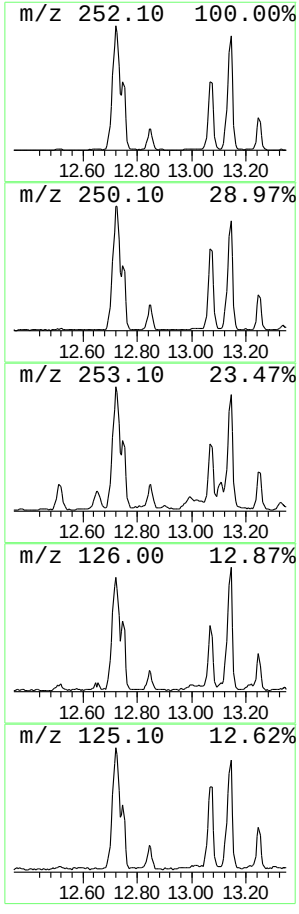
Peak Number 13 unknown PAH substance Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.844	10.16 ppm	303456	Perylene-d12	13.218

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Benzo[e]pyrene	252	C20H12	000192-97-2	93
5	Perylene	252	C20H12	000198-55-0	91





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ALS Vial  : 19   Sample Multiplier: 1

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Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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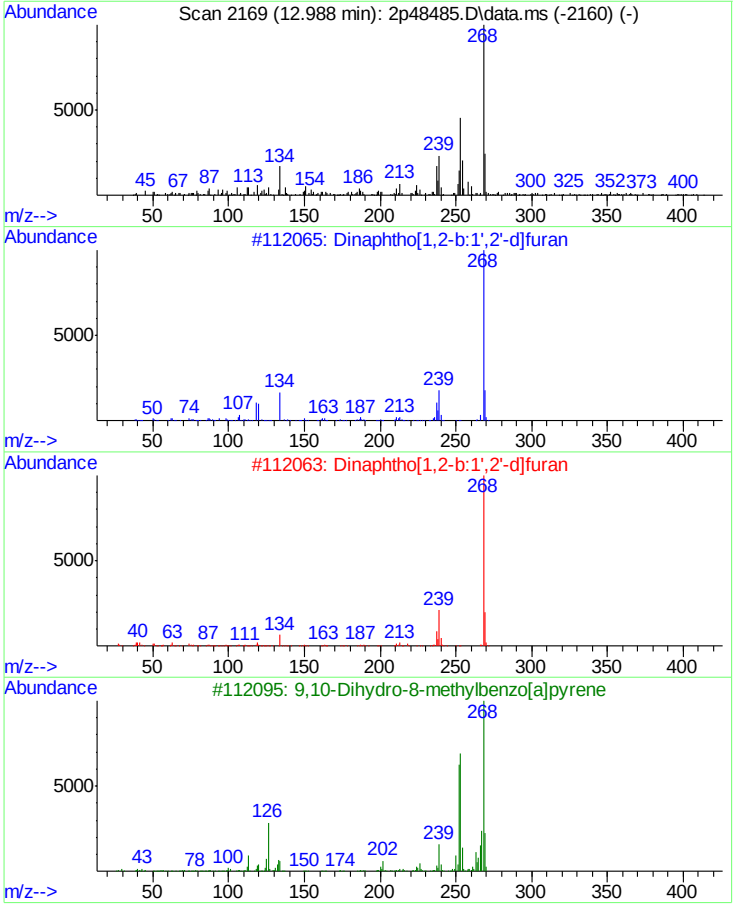
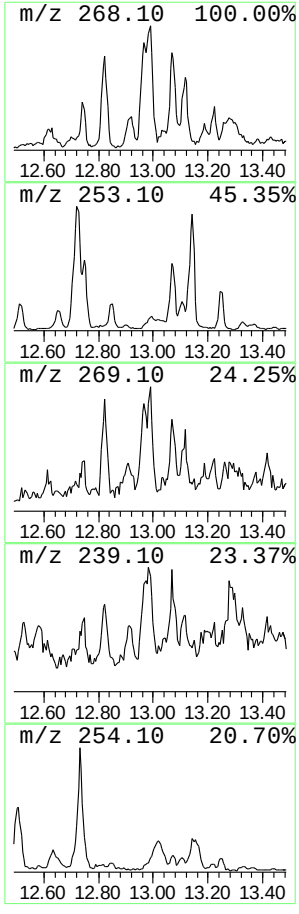
Peak Number 14 9,10-Anthracenedione, 1,4,5... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.988	7.65 ppm	228396	Perylene-d12	13.218

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	60
2	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	60
3	9,10-Dihydro-8-methylbenzo[a]pyrene	268	C21H16	089524-72-1	58
4	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	43
5	9,10-Anthracenedione, 1,4,5,8-te...	268	C14H12N4O2	002475-45-8	43





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ALS Vial  : 19   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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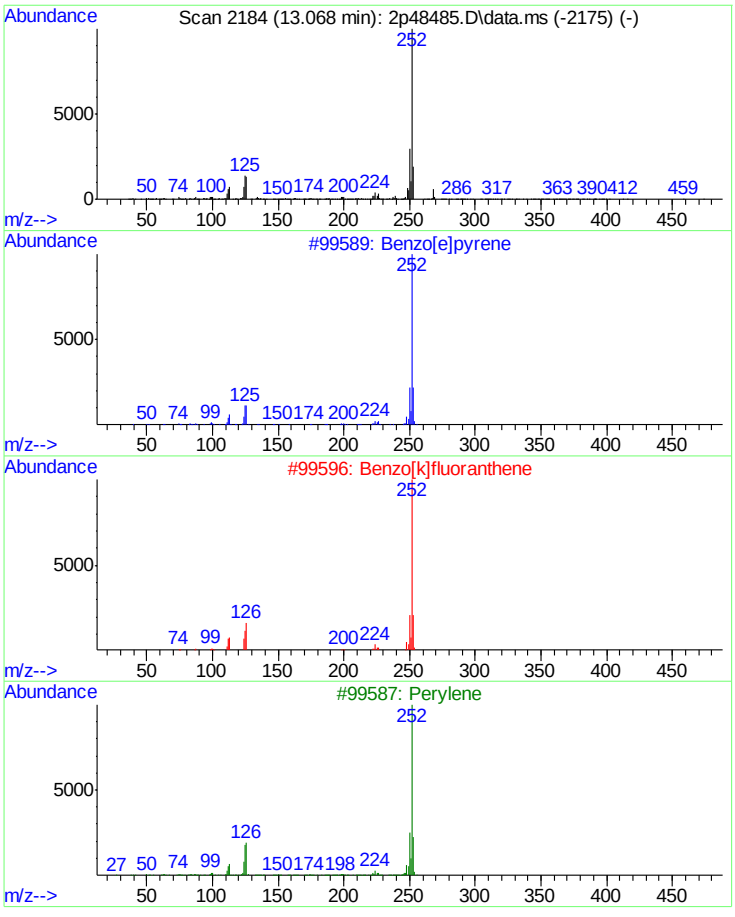
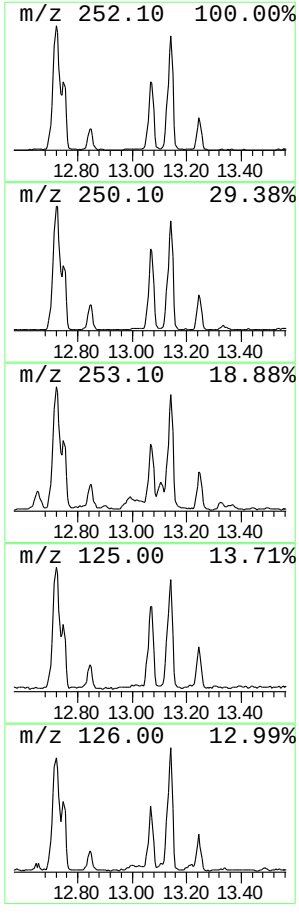
Peak Number 15 unknown PAH substance Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.068	29.79 ppm	889792	Perylene-d12	13.218

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	97
3	Perylene	252	C20H12	000198-55-0	96
4	Perylene	252	C20H12	000198-55-0	95
5	Benzo[a]pyrene	252	C20H12	000050-32-8	94





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Acq On    : 11 May 2015  11:53 pm
Operator  : sarad
Sample    : jb94209-9
Misc      : op83787,e2p2069,30.4,,,5,1
ALS Vial  : 19   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

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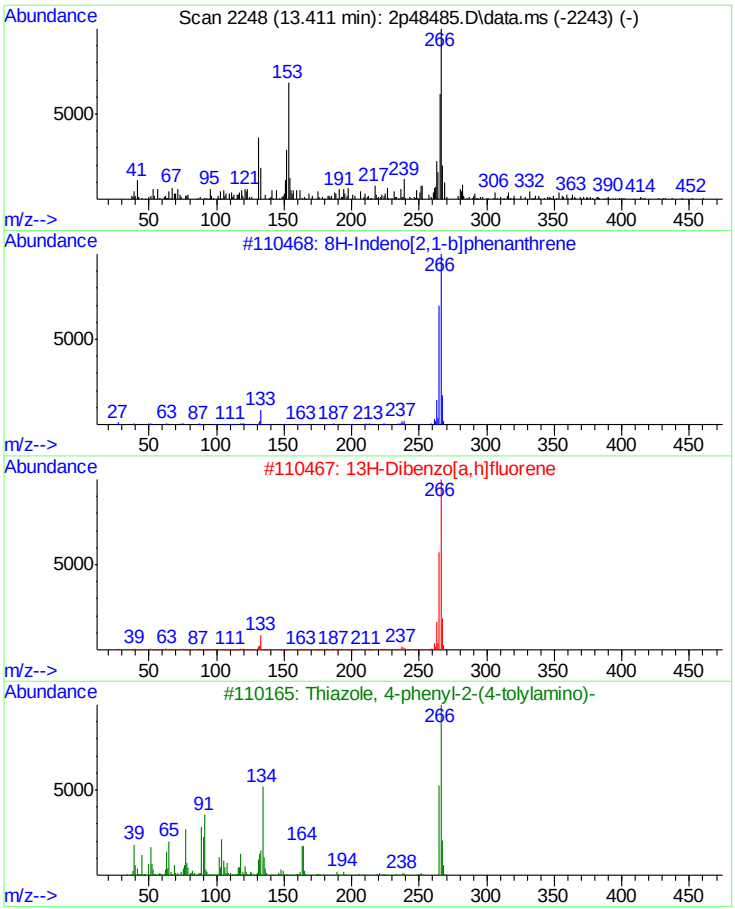
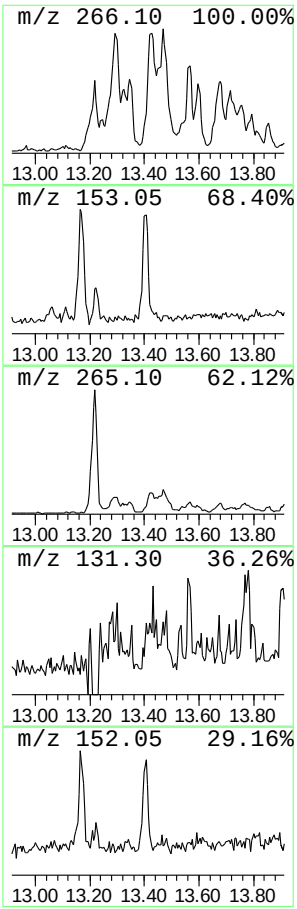
Peak Number 16 unknown Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.411	4.35 ppm	129926	Perylene-d12	13.218

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	47
2	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	46
3	Thiazole, 4-phenyl-2-(4-tolylami...	266	C16H14N2S	016098-04-7	46
4	1-Benzothieno[3,2-f]quinazoline-...	266	C14H10N4S	065642-92-4	46
5	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	46





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48485.D
Acq On    : 11 May 2015  11:53 pm
Operator  : sarad
Sample    : jb94209-9
Misc      : op83787,e2p2069,30.4,,,5,1
ALS Vial  : 19   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

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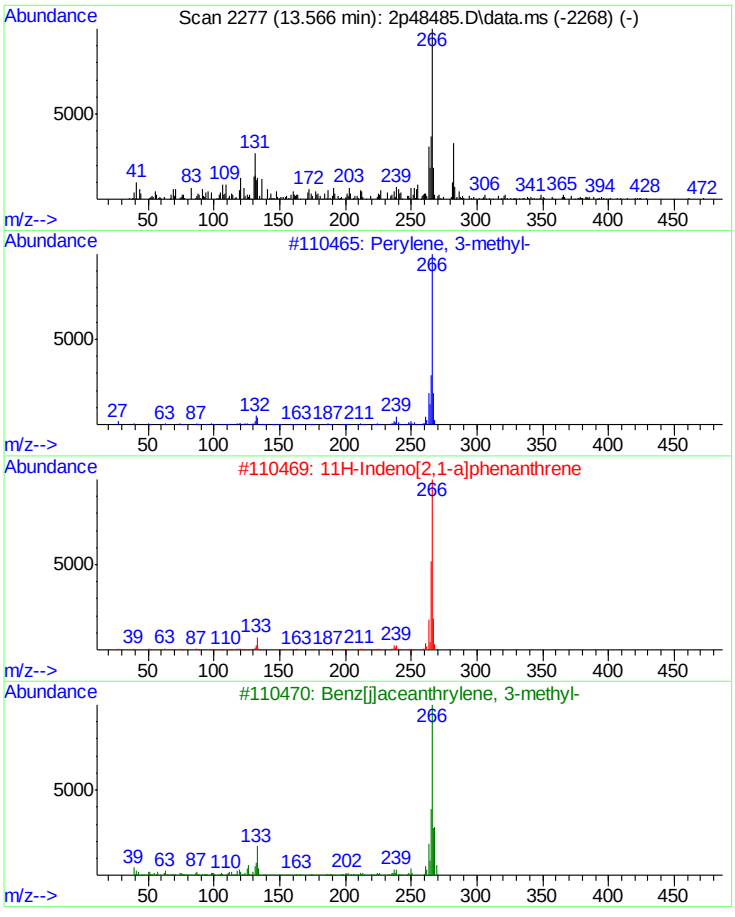
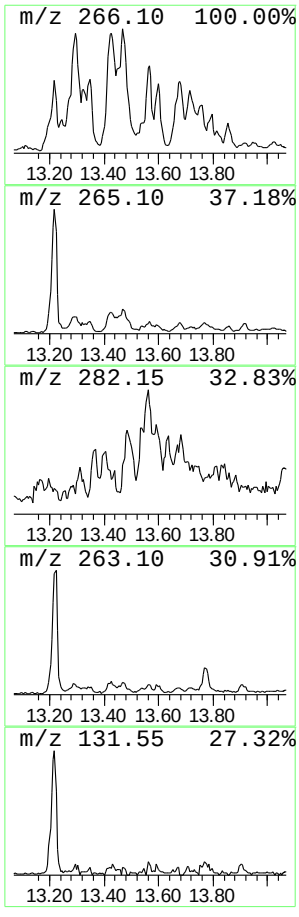
Peak Number 17 unknown Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.566	4.22 ppm	126013	Perylene-d12	13.218

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene, 3-methyl-	266	C21H14	024471-47-4	45
2	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	43
3	Benz[j]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	43
4	Dienestrol	266	C18H18O2	000084-17-3	42
5	1-Phosphacyclopent-2-ene, 1,5-di...	266	C18H19P	1000162-78-2	41





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48485.D
Acq On    : 11 May 2015  11:53 pm
Operator  : sarad
Sample    : jb94209-9
Misc      : op83787,e2p2069,30.4,,,5,1
ALS Vial  : 19   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

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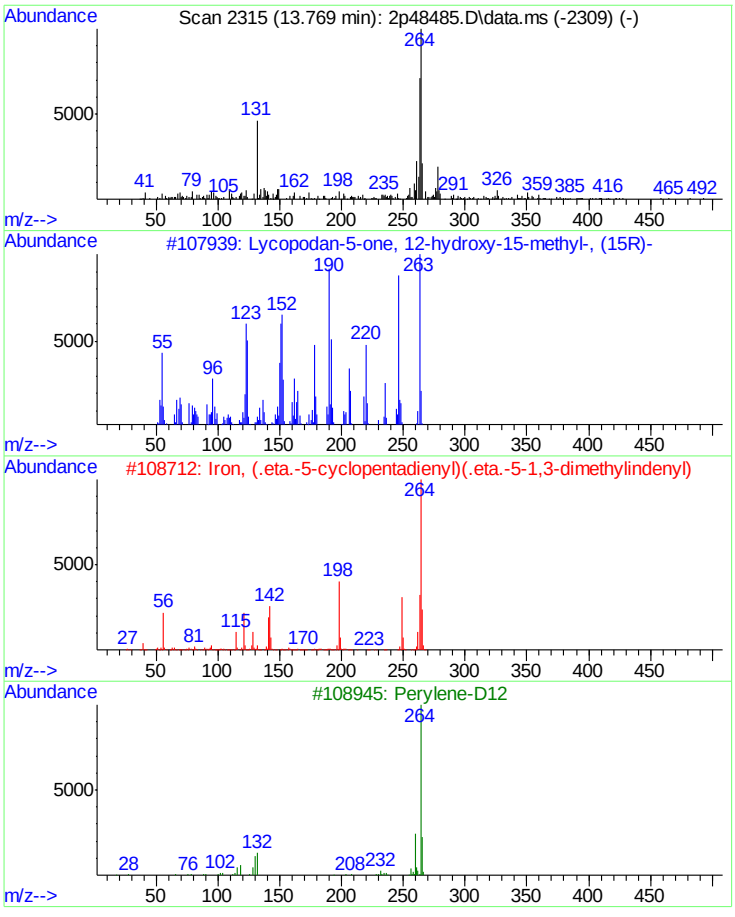
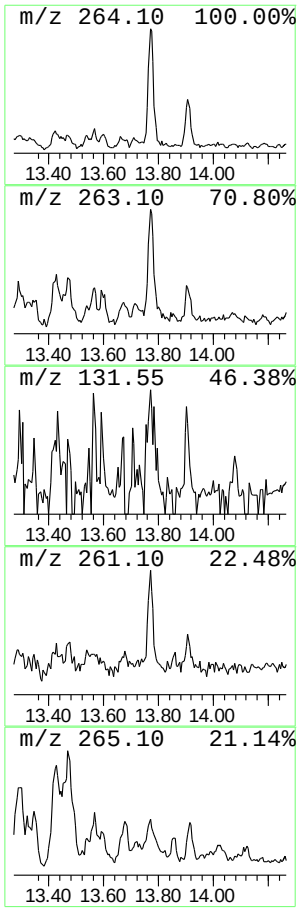
Peak Number 18 unknown Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.769	4.31 ppm	128650	Perylene-d12	13.218

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Lycopodan-5-one, 12-hydroxy-15-m...	263	C16H25NO2	006900-92-1	53
2	Iron, (.eta.-5-cyclopentadienyl)...	264	C16H16Fe	1000155-06-6	37
3	Perylene-D12	264	C20D12	001520-96-3	35
4	Pyrazolo[1,5-a]pyrimidin-7-amine...	264	C14H12N6	1000276-36-9	32
5	2-Oxo-6-phenyl-4-(4-hydroxypheny...	264	C16H12N2O2	161200-20-0	27





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48485.D
Acq On    : 11 May 2015  11:53 pm
Operator  : sarad
Sample    : jb94209-9
Misc      : op83787,e2p2069,30.4,,,5,1
ALS Vial  : 19   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

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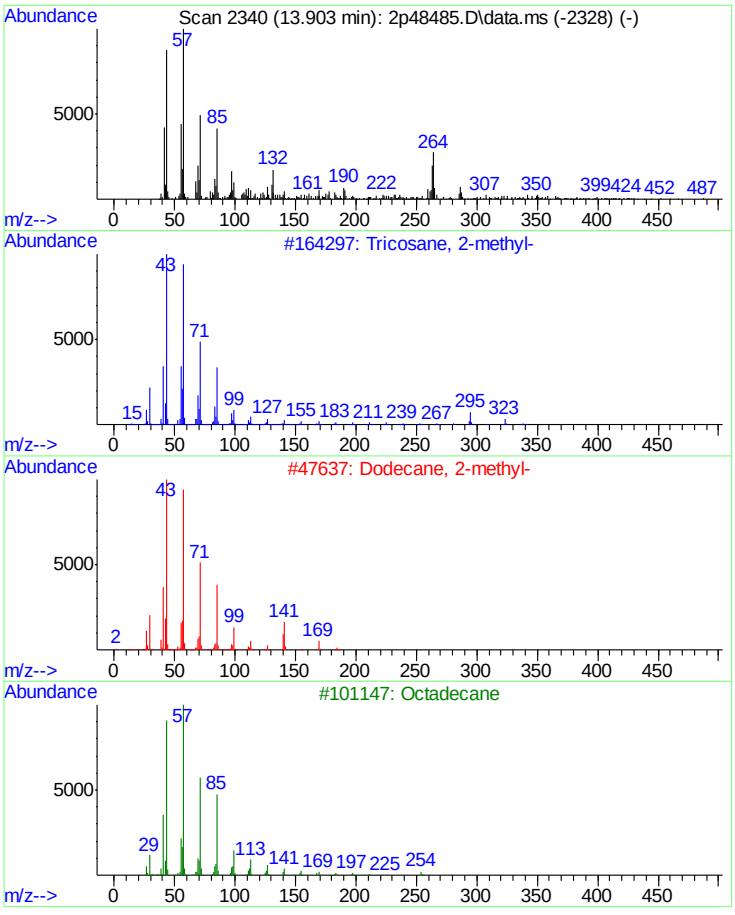
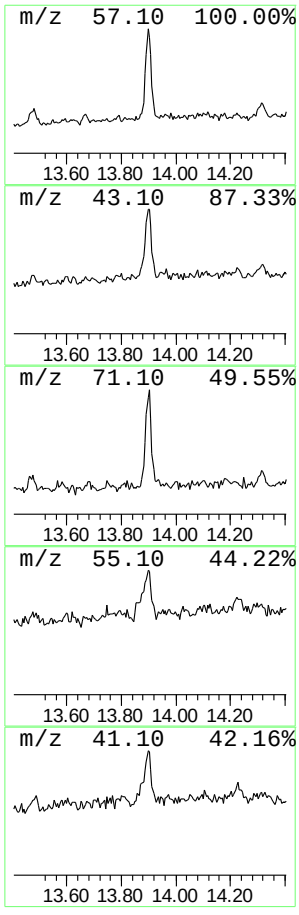
Peak Number 19 alkane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.903	13.28 ppm	396571	Perylene-d12	13.218

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tricosane, 2-methyl-	338	C24H50	001928-30-9	70
2	Dodecane, 2-methyl-	184	C13H28	001560-97-0	49
3	Octadecane	254	C18H38	000593-45-3	46
4	Heptacosane	380	C27H56	000593-49-7	46
5	Tricosane, 2-methyl-	338	C24H50	001928-30-9	46





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48485.D
Acq On    : 11 May 2015  11:53 pm
Operator  : sarad
Sample    : jb94209-9
Misc      : op83787,e2p2069,30.4,,,5,1
ALS Vial  : 19   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

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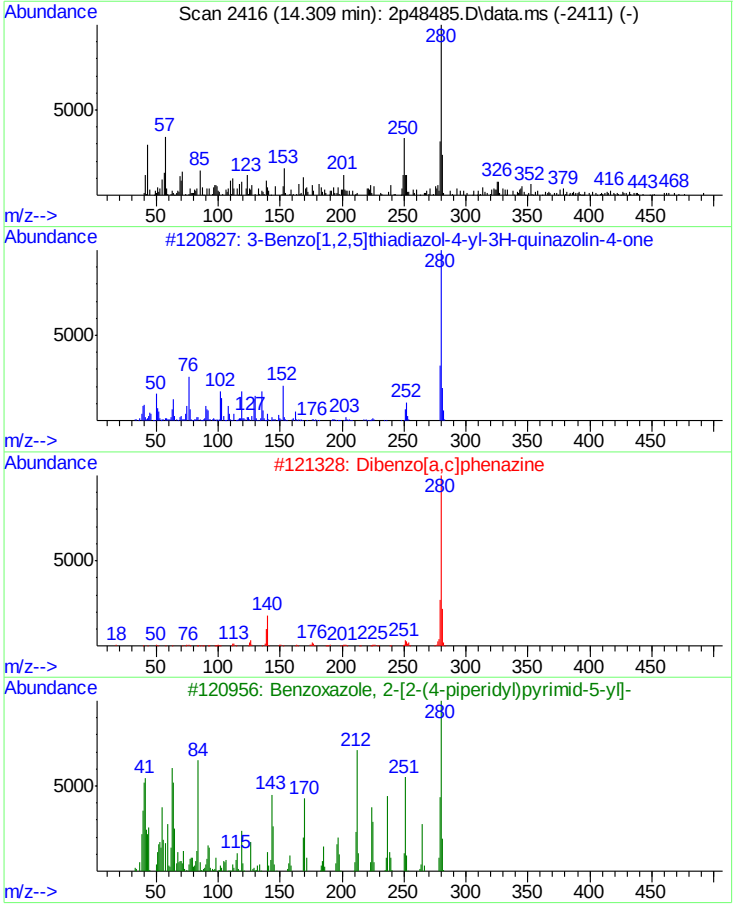
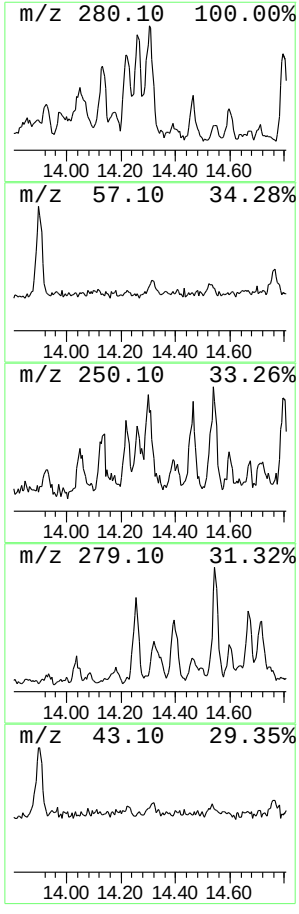
Peak Number 20 unknown Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.309	6.93 ppm	207048	Perylene-d12	13.218

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Benzo[1,2,5]thiadiazol-4-yl-3H...	280	C14H8N4OS	1000274-81-9	64
2	Dibenzo[a,c]phenazine	280	C20H12N2	000215-64-5	59
3	Benzoxazole, 2-[2-(4-piperidyl)p...	280	C16H16N4O	1000294-14-8	55
4	Dibenzo[a,c]phenazine	280	C20H12N2	000215-64-5	53
5	Estra-1,3,5,7,9-pentaen-17-one, ...	280	C19H20O2	003907-67-3	53





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48485.D
Acq On : 11 May 2015 11:53 pm
Operator : sarad
Sample : jb94209-9
Misc : op83787,e2p2069,30.4,,,5,1
ALS Vial : 19 Sample Multiplier: 1

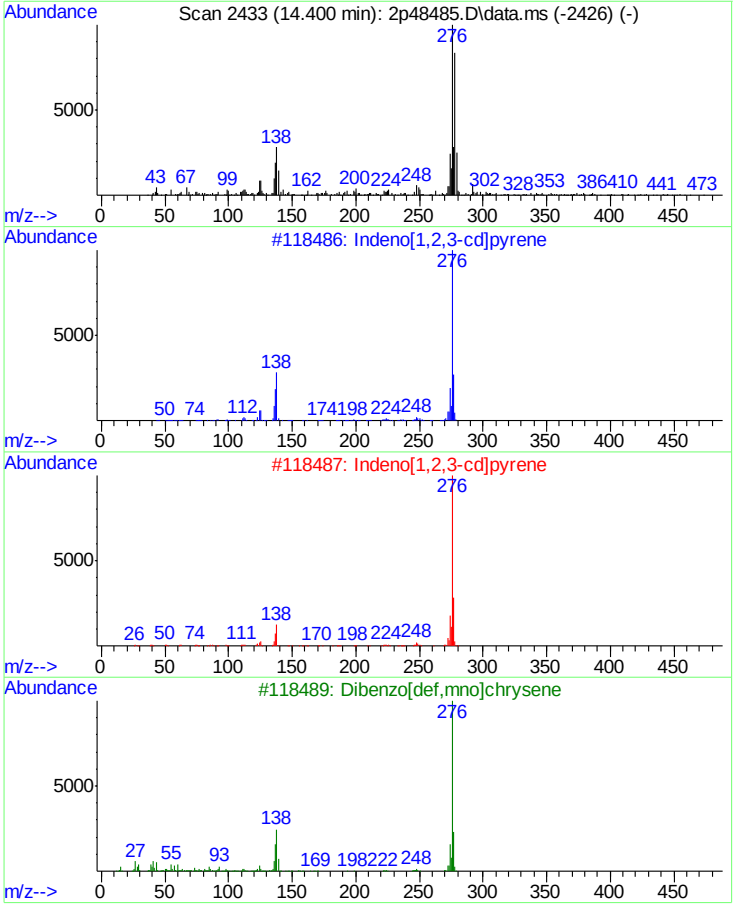
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

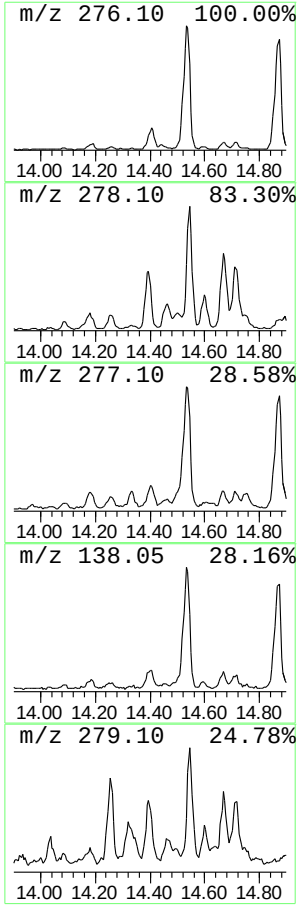
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 21 unknown PAH substance Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.400	10.16 ppm	303503	Perylene-d12	13.218

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	95
2	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	91
3	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	90
4	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	89
5	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	87





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48485.D
Acq On : 11 May 2015 11:53 pm
Operator : sarad
Sample : jb94209-9
Misc : op83787,e2p2069,30.4,,,5,1
ALS Vial : 19 Sample Multiplier: 1

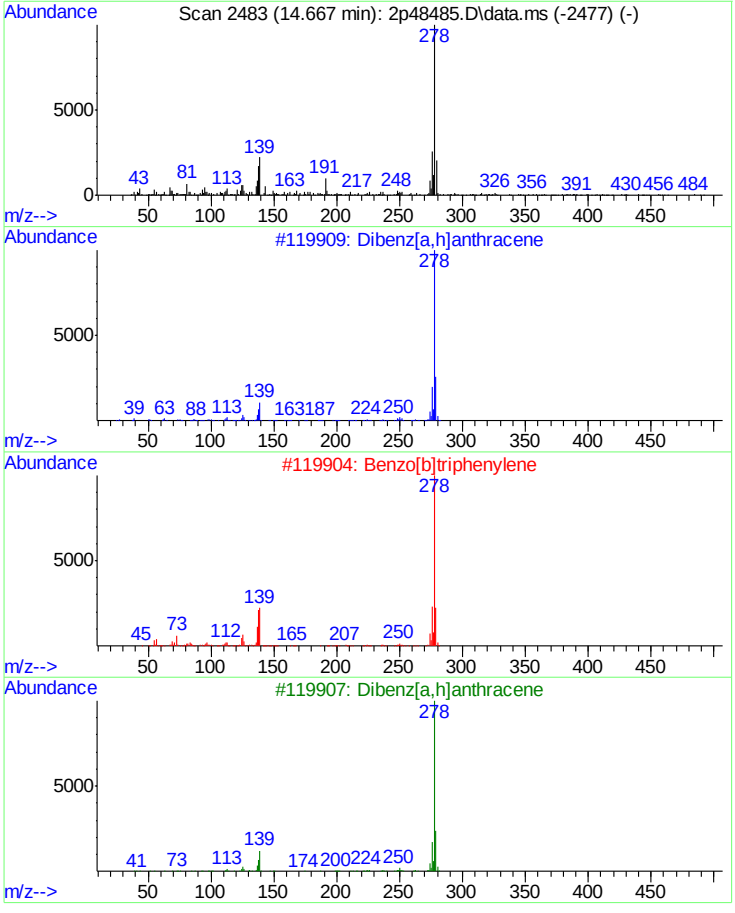
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

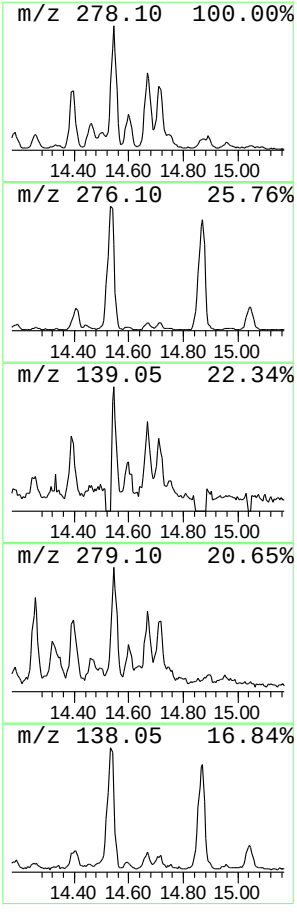
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 22 unknown PAH substance Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.668	7.87 ppm	234899	Perylene-d12	13.218

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	93
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	90
3	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	90
4	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	90
5	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	90





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48485.D
Acq On : 11 May 2015 11:53 pm
Operator : sarad
Sample : jb94209-9
Misc : op83787,e2p2069,30.4,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

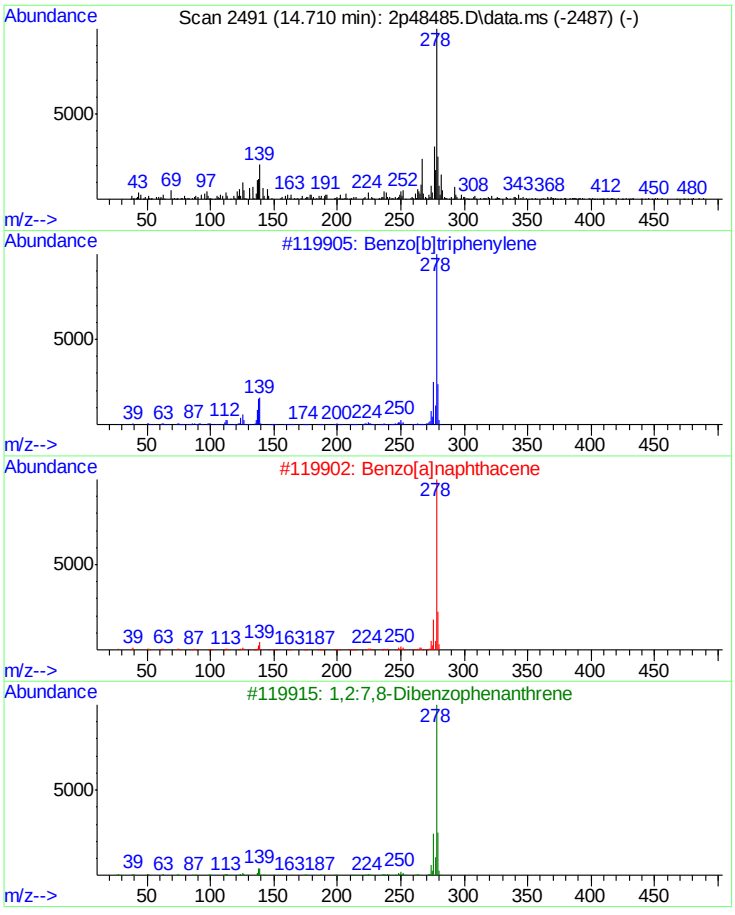
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

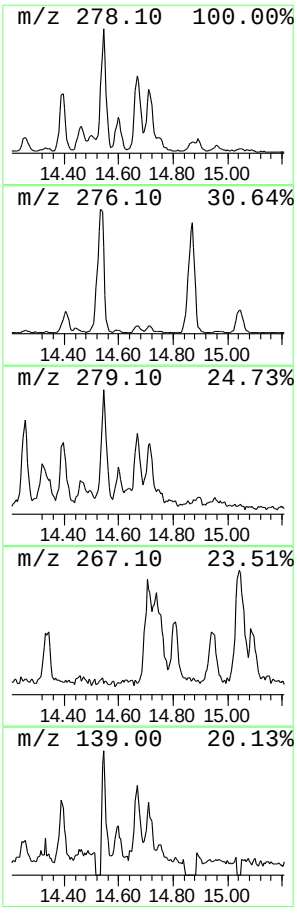
****

Peak Number 23 unknown PAH substance Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.710	12.97 ppm	387269	Perylene-d12	13.218

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	86
2	Benzo[a]naphthacene	278	C22H14	000226-88-0	83
3	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	70
4	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	70
5	Pentacene	278	C22H14	000135-48-8	64





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48485.D
Acq On    : 11 May 2015  11:53 pm
Operator  : sarad
Sample    : jb94209-9
Misc      : op83787,e2p2069,30.4,,,5,1
ALS Vial  : 19   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```
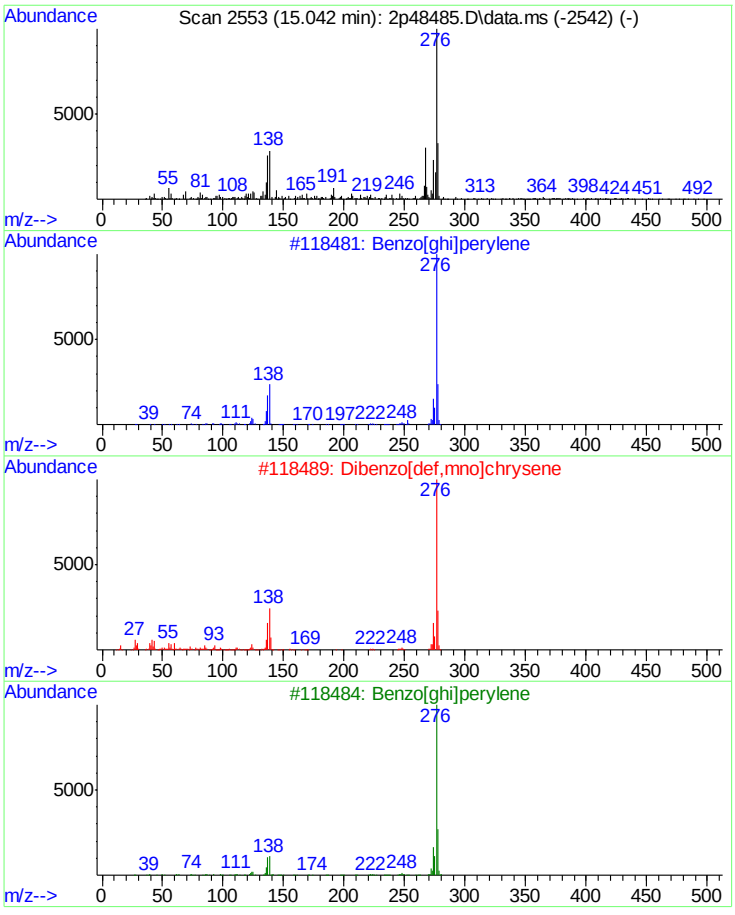
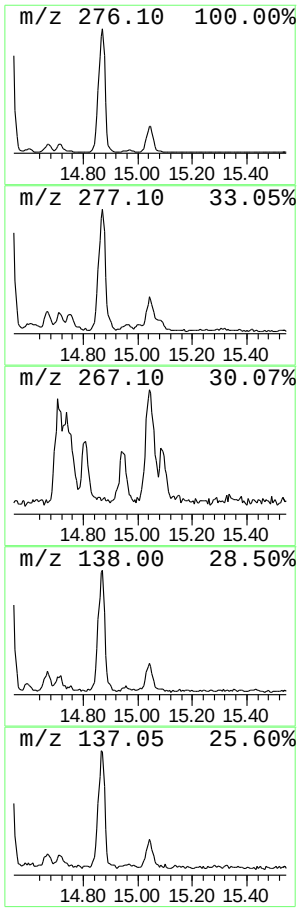

****

Peak Number 24 unknown PAH substance Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.042	10.77 ppm	321680	Perylene-d12	13.218

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]perylene	276	C22H12	000191-24-2	93
2	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	86
3	Benzo[ghi]perylene	276	C22H12	000191-24-2	64
4	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	59
5	Benzo[ghi]perylene	276	C22H12	000191-24-2	58





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48485.D
Acq On    : 11 May 2015  11:53 pm
Operator  : sarad
Sample    : jb94209-9
Misc      : op83787,e2p2069,30.4,,,5,1
ALS Vial  : 19   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

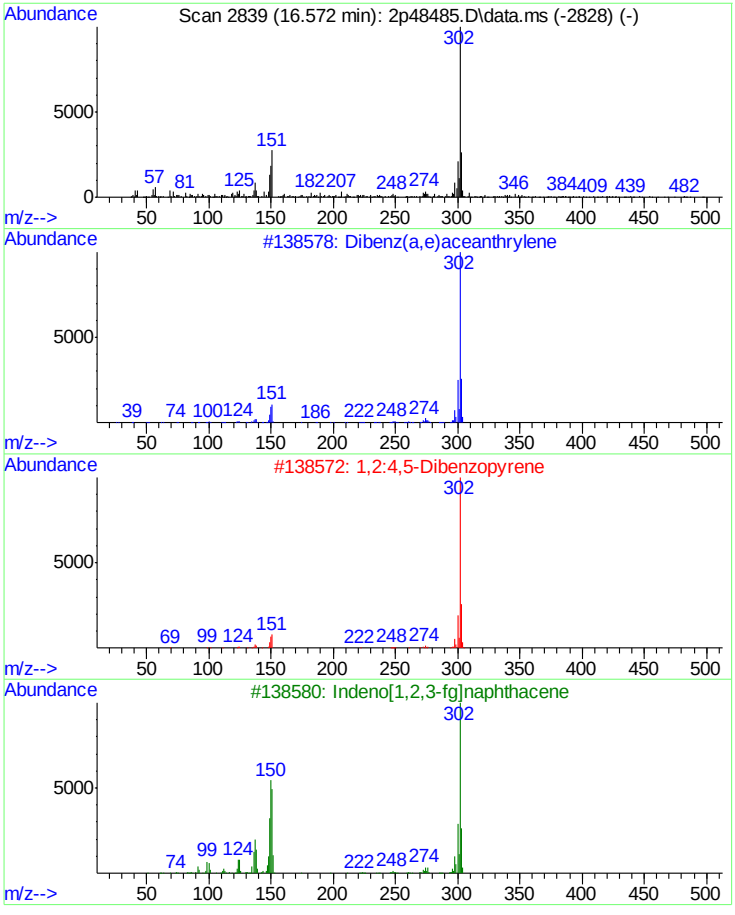
TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

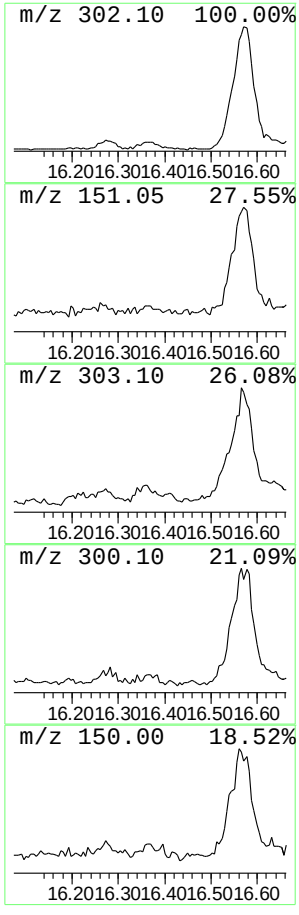
****

Peak Number 25 unknown PAH substance Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.572	14.46 ppm	431962	Perylene-d12	13.218

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	98
2	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	98
3	Indeno[1,2,3-fg]naphthacene	302	C24H14	000203-11-2	95
4	3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	95
5	1,2:3,4-Dibenzopyrene	302	C24H14	000191-30-0	92





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48485.D
Acq On : 11 May 2015 11:53 pm
Operator : sarad
Sample : jb94209-9
Misc : op83787,e2p2069,30.4,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Dibenzothiophene	7.960	4.7	ppm	169643	7	8.057	1448500	40.0
Phenanthrene me...	8.549	6.6	ppm	237930	7	8.057	1448500	40.0
Phenanthrene me...	8.575	7.9	ppm	285698	7	8.057	1448500	40.0
4H-Cyclopenta[d...	8.656	14.9	ppm	539423	7	8.057	1448500	40.0
Anthracene methyl	8.682	5.2	ppm	188861	7	8.057	1448500	40.0
unknown	8.864	5.7	ppm	205106	7	8.057	1448500	40.0
Anthracenedione	8.902	5.5	ppm	198084	7	8.057	1448500	40.0
Cyclopenta(def)...	9.249	4.7	ppm	169306	7	8.057	1448500	40.0
11H-Benzo[b]flu...	10.025	7.1	ppm	583822	8	11.228	3283780	40.0
Pyrene methyl	10.159	5.2	ppm	425298	8	11.228	3283780	40.0
5,12-Naphthacen...	12.282	4.4	ppm	130953	10	13.218	1194600	40.0
unknown	12.507	6.7	ppm	201209	10	13.218	1194600	40.0
unknown PAH sub...	12.844	10.2	ppm	303456	10	13.218	1194600	40.0
9,10-Anthracene...	12.988	7.7	ppm	228396	10	13.218	1194600	40.0
unknown PAH sub...	13.068	29.8	ppm	889792	10	13.218	1194600	40.0
unknown	13.411	4.3	ppm	129926	10	13.218	1194600	40.0
unknown	13.566	4.2	ppm	126013	10	13.218	1194600	40.0
unknown	13.769	4.3	ppm	128650	10	13.218	1194600	40.0
alkane	13.903	13.3	ppm	396571	10	13.218	1194600	40.0
unknown	14.309	6.9	ppm	207048	10	13.218	1194600	40.0
unknown PAH sub...	14.400	10.2	ppm	303503	10	13.218	1194600	40.0
unknown PAH sub...	14.668	7.9	ppm	234899	10	13.218	1194600	40.0
unknown PAH sub...	14.710	13.0	ppm	387269	10	13.218	1194600	40.0
unknown PAH sub...	15.042	10.8	ppm	321680	10	13.218	1194600	40.0
unknown PAH sub...	16.572	14.5	ppm	431962	10	13.218	1194600	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48486.D
Acq On : 12 May 2015 12:14 am
Operator : sarad
Sample : jb94209-10
Misc : op83787,e2p2069,30.5
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 12 09:36:10 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

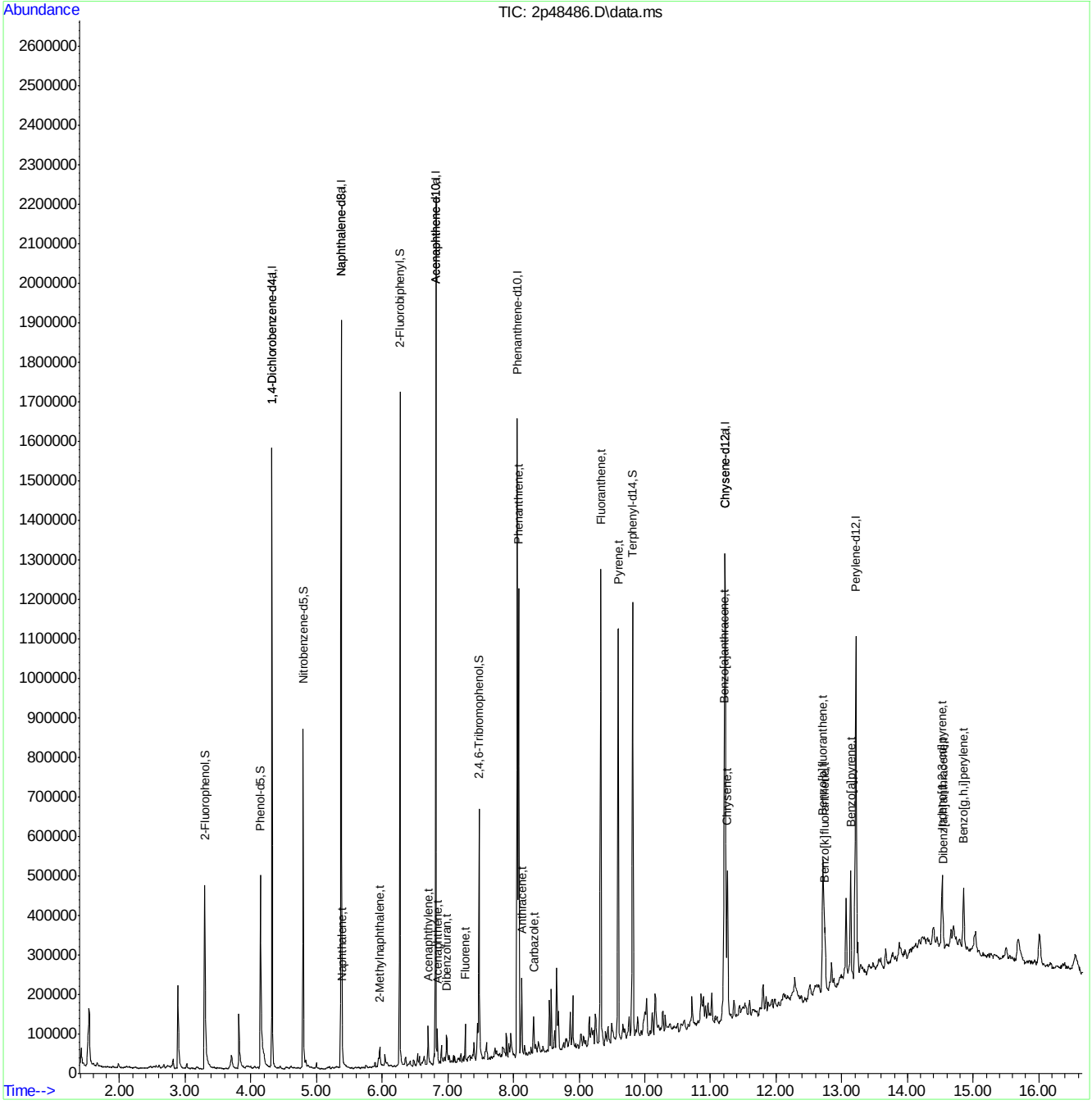
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.323	152	169316	40.00 ppm	-0.08
24) Naphthalene-d8	5.377	136	553290	40.00 ppm	-0.08
47) Acenaphthene-d10	6.816	164	333096	40.00 ppm	-0.08
69) Phenanthrene-d10	8.056	188	516245	40.00 ppm	-0.09
83) Chrysene-d12	11.223	240	426055	40.00 ppm	-0.11
92) Perylene-d12	13.218	264	366199	40.00 ppm	-0.10
102) 1,4-Dichlorobenzene-d4a	4.323	152	169316	40.00 ppm	-0.08
104) Naphthalene-d8a	5.377	136	553290	40.00 ppm	#-0.08
106) Acenaphthene-d10a	6.816	164	333096	40.00 ppm	-0.08
109) Chrysene-d12a	11.223	240	426055	40.00 ppm	-0.11
System Monitoring Compounds					
5) 2-Fluorophenol	3.296	112	150046	30.14 ppm	-0.10
Spiked Amount 50.000	Range 11 - 58		Recovery = 60.28%#		
8) Phenol-d5	4.147	99	176152	28.12 ppm	-0.08
Spiked Amount 50.000	Range 10 - 59		Recovery = 56.24%		
25) Nitrobenzene-d5	4.794	82	176476	35.20 ppm	-0.08
Spiked Amount 50.000	Range 19 - 61		Recovery = 70.40%#		
51) 2-Fluorobiphenyl	6.270	172	408243	35.80 ppm	-0.07
Spiked Amount 50.000	Range 21 - 58		Recovery = 71.60%#		
73) 2,4,6-Tribromophenol	7.479	330	41755	34.81 ppm	-0.07
Spiked Amount 50.000	Range 12 - 68		Recovery = 69.62%#		
85) Terphenyl-d14	9.816	244	329612	41.59 ppm	-0.10
Spiked Amount 50.000	Range 16 - 65		Recovery = 83.18%#		
Target Compounds					Qvalue
38) Naphthalene	5.393	128	20973	1.44 ppm	98
44) 2-Methylnaphthalene	5.965	141	6456	0.75 ppm	93
56) Acenaphthylene	6.698	152	32571	2.08 ppm	99
59) Acenaphthene	6.837	153	14962	1.53 ppm	95
62) Dibenzofuran	6.981	168	17278	1.32 ppm	85
66) Fluorene	7.265	166	21740	2.03 ppm	99
77) Phenanthrene	8.078	178	327637	23.07 ppm	99
78) Anthracene	8.126	178	64661	4.50 ppm	99
79) Carbazole	8.308	167	36495	2.63 ppm	97
81) Fluoranthene	9.329	202	478491	28.14 ppm	96
84) Pyrene	9.597	202	429215	33.00 ppm	99
88) Benzo[a]anthracene	11.212	228	183167	14.89 ppm	97
90) Chrysene	11.255	228	171207	15.58 ppm	94
94) Benzo[b]fluoranthene	12.715	252	198834	17.79 ppm	98
95) Benzo[k]fluoranthene	12.742	252	49326	4.66 ppm	95
96) Benzo[a]pyrene	13.138	252	135793	14.05 ppm	93
97) Indeno[1,2,3-cd]pyrene	14.528	276	83046	7.50 ppm	89
99) Dibenz[a,h]anthracene	14.539	278	22917	2.55 ppm	93
101) Benzo[g,h,i]perylene	14.855	276	78985	8.64 ppm	90

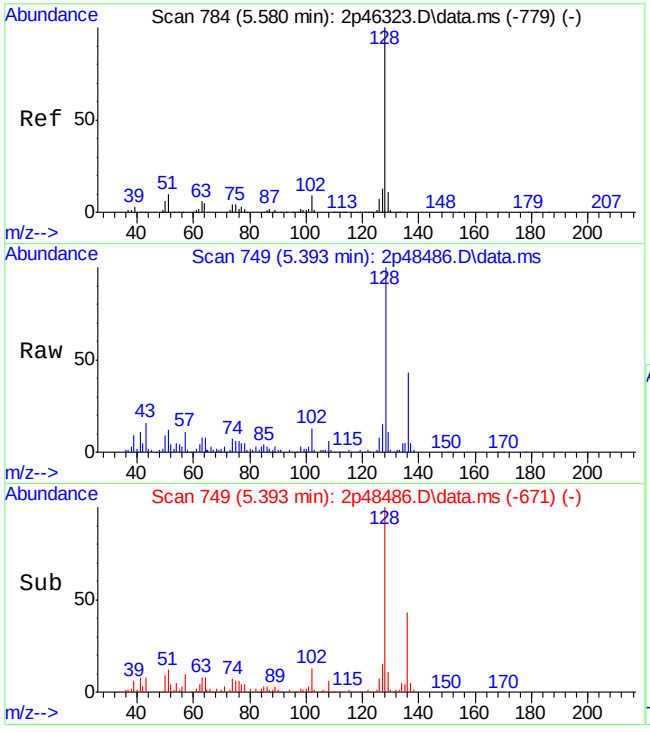
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48486.D
Acq On : 12 May 2015 12:14 am
Operator : sarad
Sample : jb94209-10
Misc : op83787,e2p2069,30.5
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 12 09:36:10 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

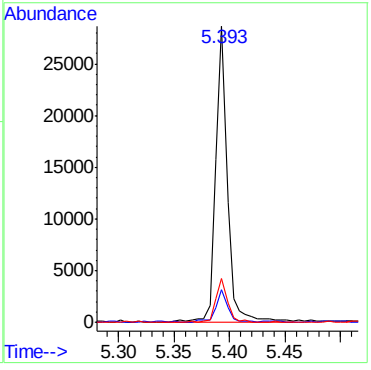


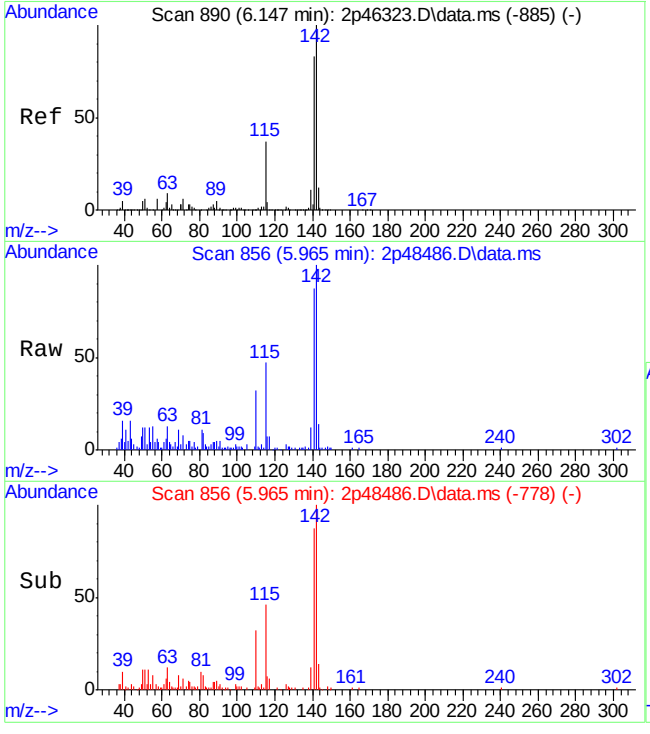


#38
Naphthalene
Concen: 1.44 ppm
RT: 5.393 min Scan# 749
Delta R.T. -0.080 min
Lab File: 2p48486.D
Acq: 12 May 2015 12:14 am

Tgt Ion:128 Resp: 20973

Ion	Ratio	Lower	Upper
128	100		
129	10.9	0.0	41.0
127	14.9	0.0	43.4

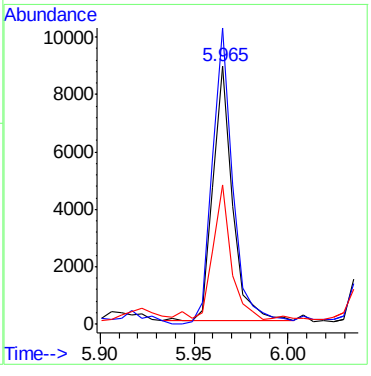




#44
2-Methylnaphthalene
Concen: 0.75 ppm
RT: 5.965 min Scan# 856
Delta R.T. -0.080 min
Lab File: 2p48486.D
Acq: 12 May 2015 12:14 am

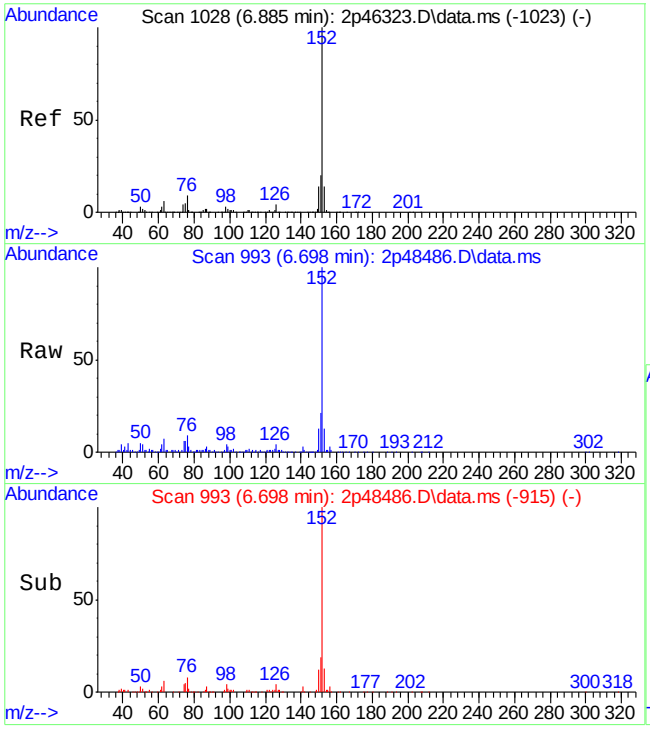
Tgt Ion:141 Resp: 6456

Ion	Ratio	Lower	Upper
141	100		
142	114.8	85.1	145.1
115	51.8	6.3	66.3



9.1.21

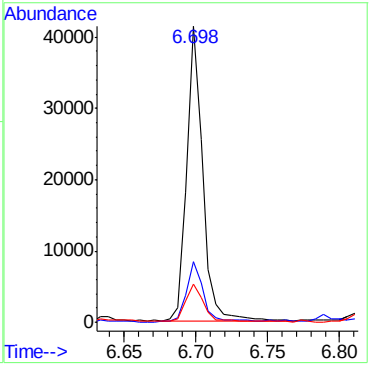
9

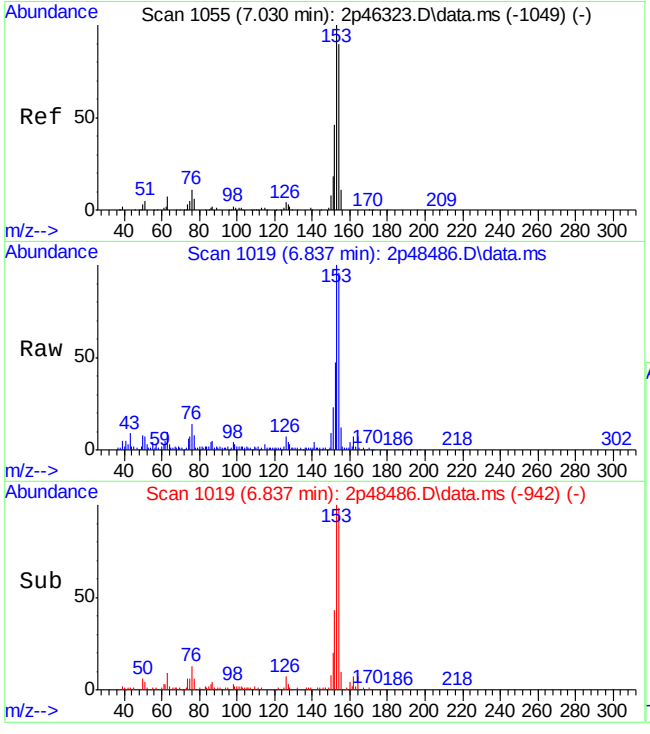


#56
Acenaphthylene
Concen: 2.08 ppm
RT: 6.698 min Scan# 993
Delta R.T. -0.080 min
Lab File: 2p48486.D
Acq: 12 May 2015 12:14 am

Tgt Ion:152 Resp: 32571

Ion	Ratio	Lower	Upper
152	100		
151	20.2	0.0	49.7
153	12.8	0.0	42.8

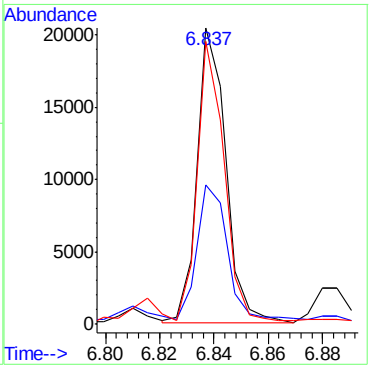


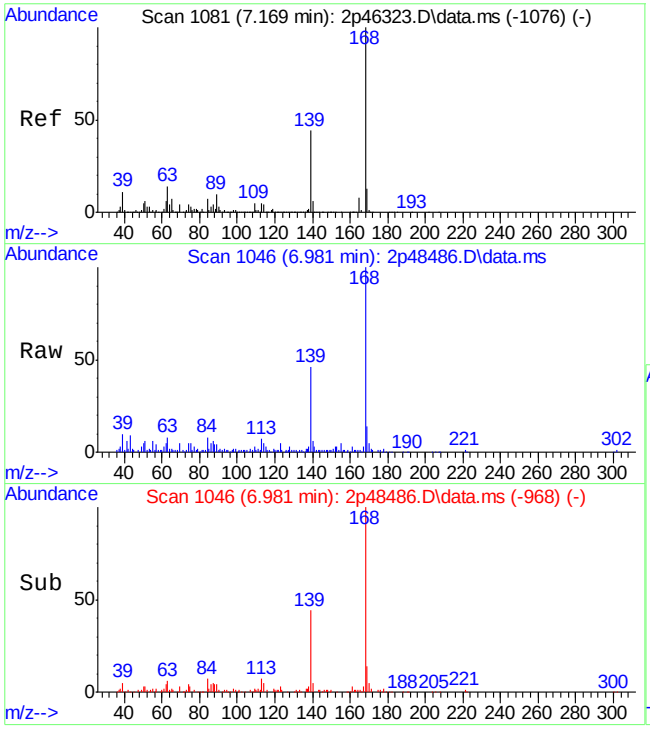


#59
Acenaphthene
Concen: 1.53 ppm
RT: 6.837 min Scan# 1019
Delta R.T. -0.086 min
Lab File: 2p48486.D
Acq: 12 May 2015 12:14 am

Tgt Ion:153 Resp: 14962

Ion	Ratio	Lower	Upper
153	100		
152	45.3	16.9	76.9
154	94.3	58.3	118.3

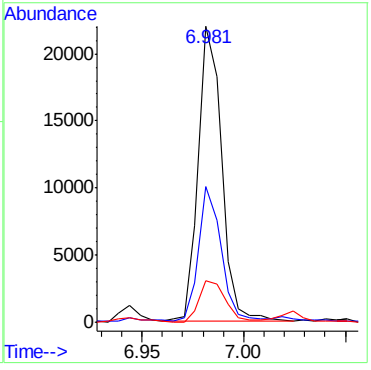


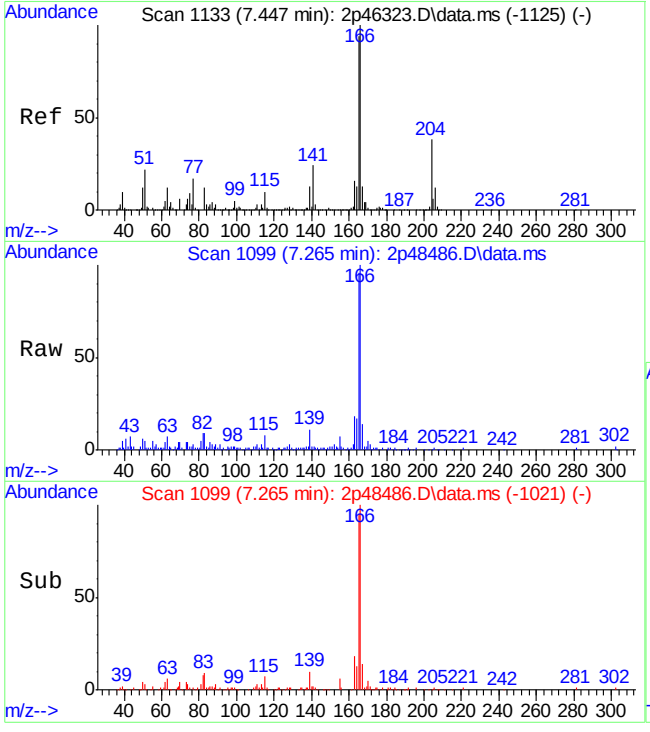


#62
Dibenzofuran
Concen: 1.32 ppm
RT: 6.981 min Scan# 1046
Delta R.T. -0.080 min
Lab File: 2p48486.D
Acq: 12 May 2015 12:14 am

Tgt Ion:168 Resp: 17278

Ion	Ratio	Lower	Upper
168	100		
139	45.1	3.6	63.6
169	12.0	0.0	43.3

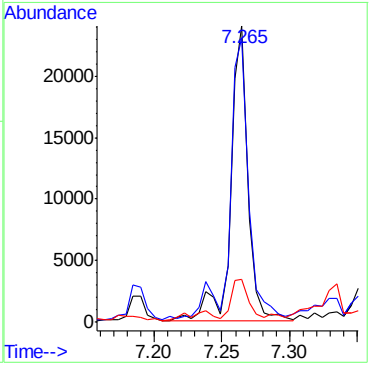




#66
Fluorene
Concen: 2.03 ppm
RT: 7.265 min Scan# 1099
Delta R.T. -0.080 min
Lab File: 2p48486.D
Acq: 12 May 2015 12:14 am

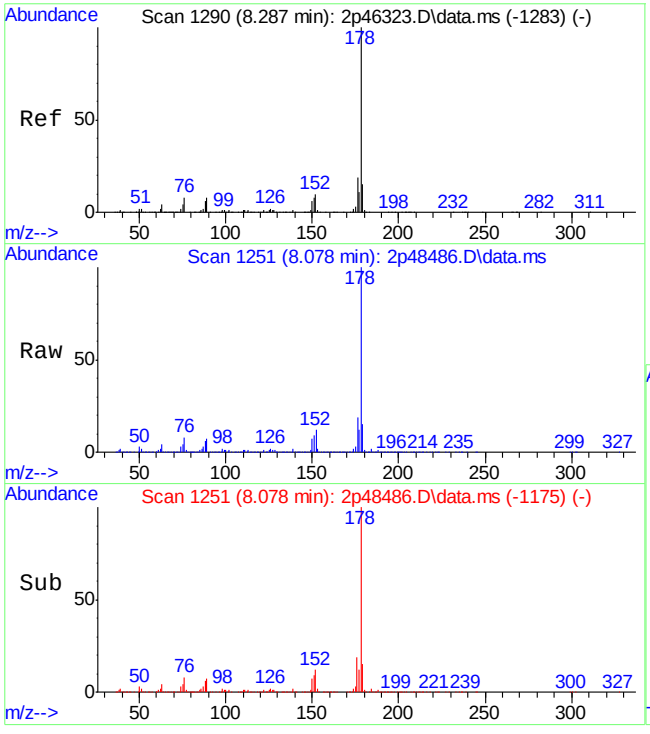
Tgt Ion:166 Resp: 21740

Ion	Ratio	Lower	Upper
166	100		
165	94.5	65.0	125.0
167	13.1	0.0	43.9



9.1.21

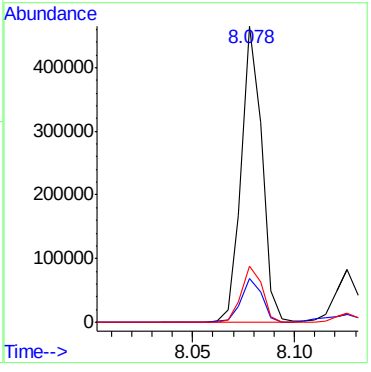
9

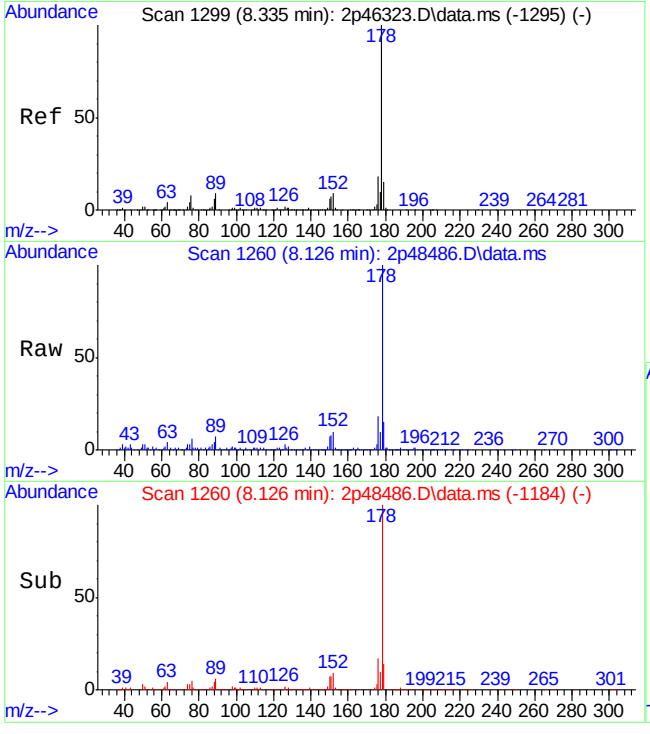


#77
Phenanthrene
Concen: 23.07 ppm
RT: 8.078 min Scan# 1251
Delta R.T. -0.091 min
Lab File: 2p48486.D
Acq: 12 May 2015 12:14 am

Tgt Ion:178 Resp: 327637

Ion	Ratio	Lower	Upper
178	100		
179	14.8	0.0	45.4
176	19.1	0.0	48.5

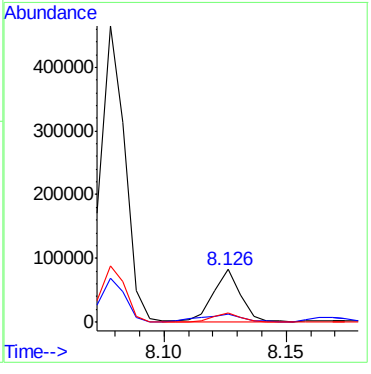




#78
Anthracene
Concen: 4.50 ppm
RT: 8.126 min Scan# 1260
Delta R.T. -0.091 min
Lab File: 2p48486.D
Acq: 12 May 2015 12:14 am

Tgt Ion:178 Resp: 64661

Ion	Ratio	Lower	Upper
178	100		
179	14.5	0.0	45.2
176	17.7	0.0	48.1



9.1.21

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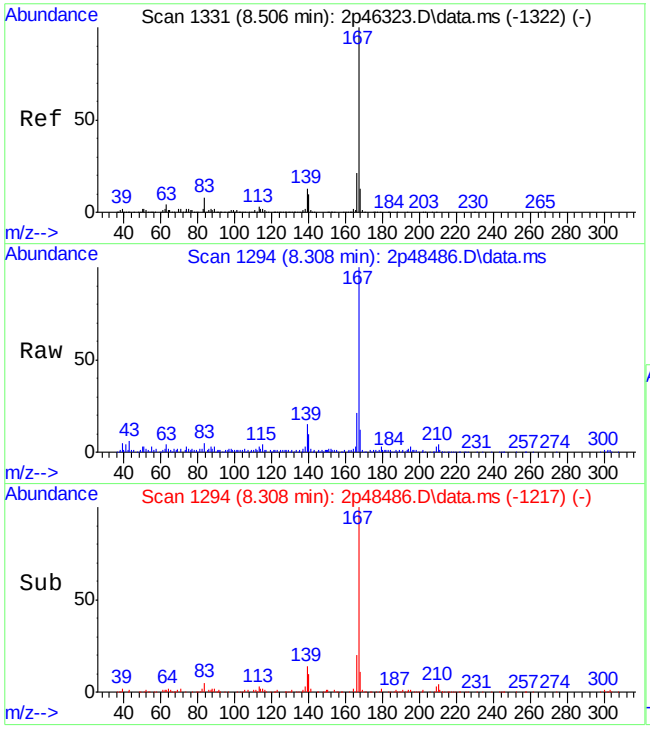
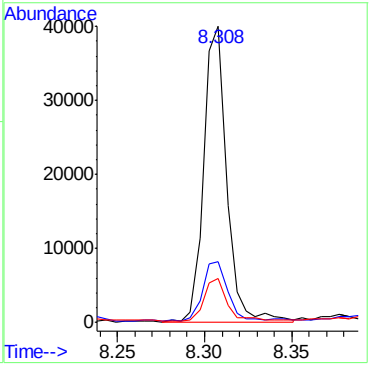
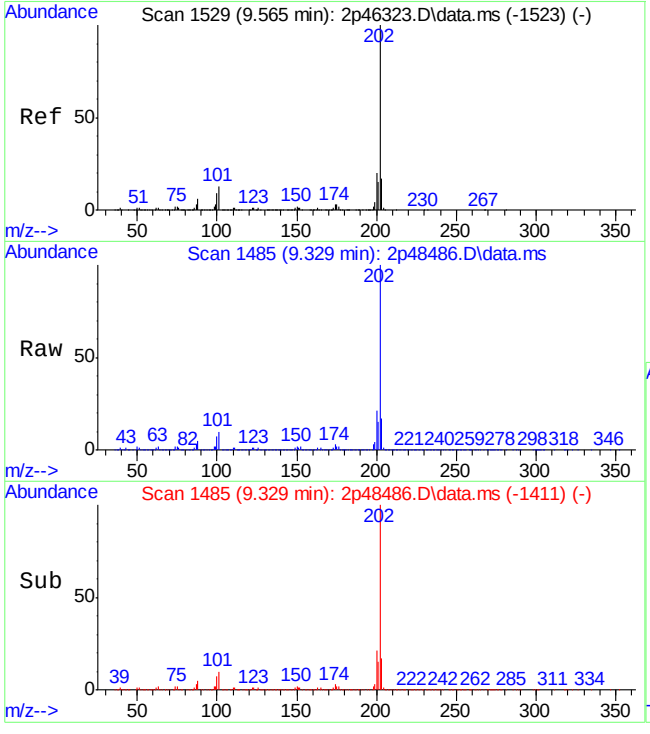


#79
Carbazole
Concen: 2.63 ppm
RT: 8.308 min Scan# 1294
Delta R.T. -0.086 min
Lab File: 2p48486.D
Acq: 12 May 2015 12:14 am

Tgt Ion:167 Resp: 36495

Ion	Ratio	Lower	Upper
167	100		
166	20.0	0.0	50.6
139	14.3	0.0	41.7

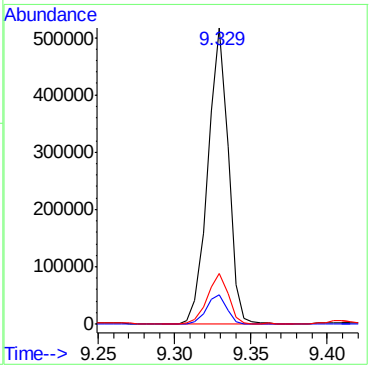


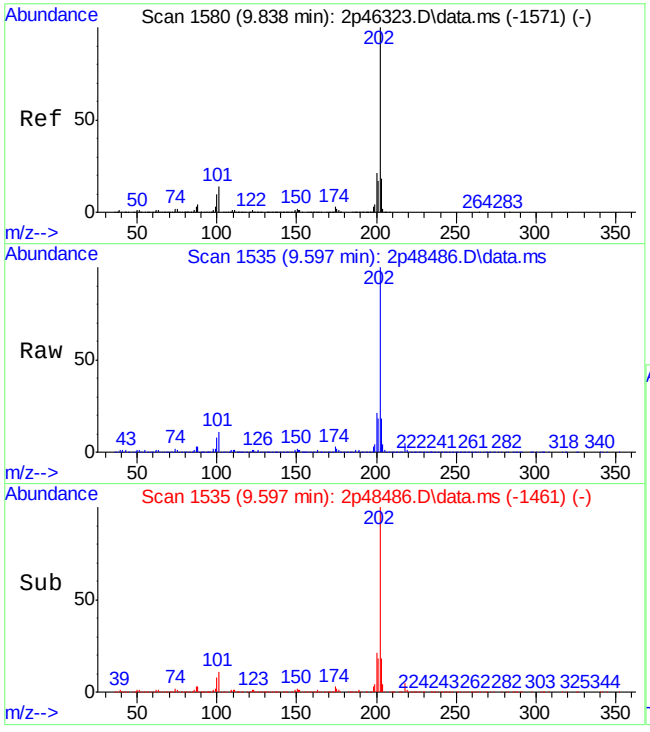


#81
Fluoranthene
Concen: 28.14 ppm
RT: 9.329 min Scan# 1485
Delta R.T. -0.102 min
Lab File: 2p48486.D
Acq: 12 May 2015 12:14 am

Tgt Ion:202 Resp: 478491

Ion	Ratio	Lower	Upper
202	100		
101	9.7	0.0	43.1
203	17.1	0.0	47.4

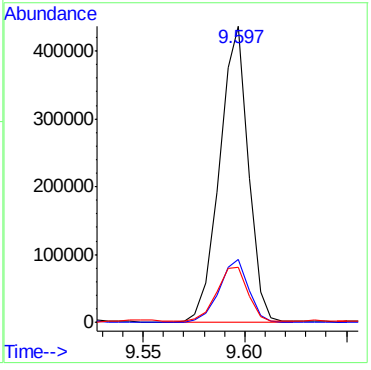


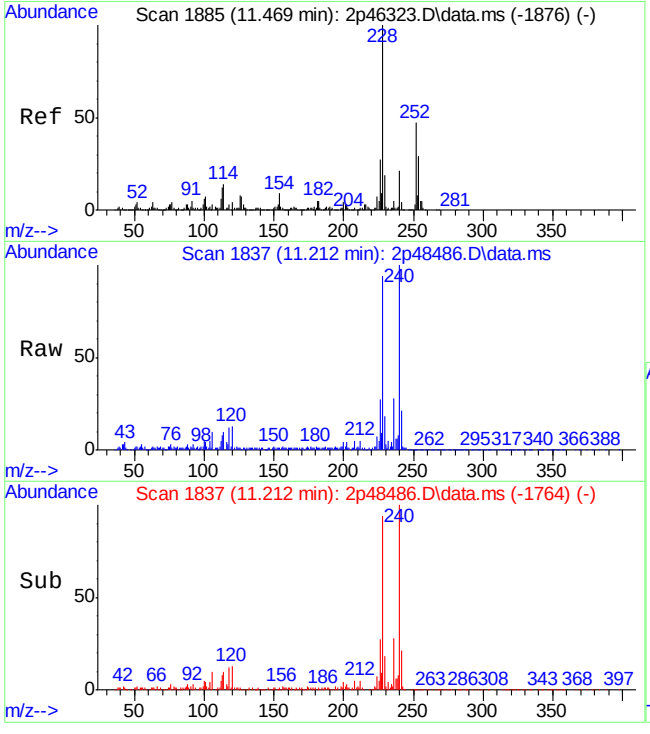


#84
Pyrene
Concen: 33.00 ppm
RT: 9.597 min Scan# 1535
Delta R.T. -0.102 min
Lab File: 2p48486.D
Acq: 12 May 2015 12:14 am

Tgt Ion:202 Resp: 429215

Ion	Ratio	Lower	Upper
202	100		
200	21.0	0.0	51.0
203	18.2	0.0	47.4

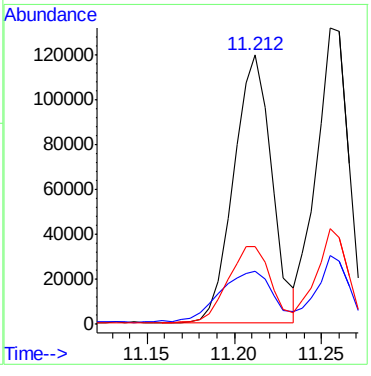


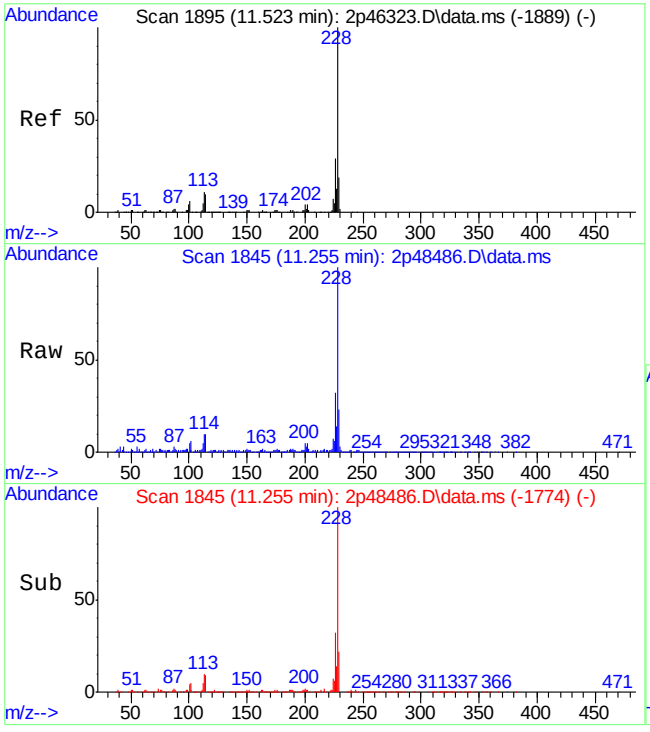


#88
Benzo[a]anthracene
Concen: 14.89 ppm
RT: 11.212 min Scan# 1837
Delta R.T. -0.107 min
Lab File: 2p48486.D
Acq: 12 May 2015 12:14 am

Tgt Ion:228 Resp: 183167

Ion	Ratio	Lower	Upper
228	100		
229	17.8	0.0	50.1
226	28.4	0.0	57.2

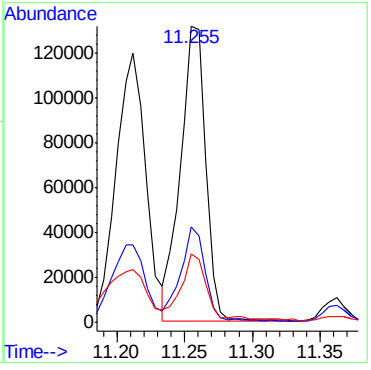


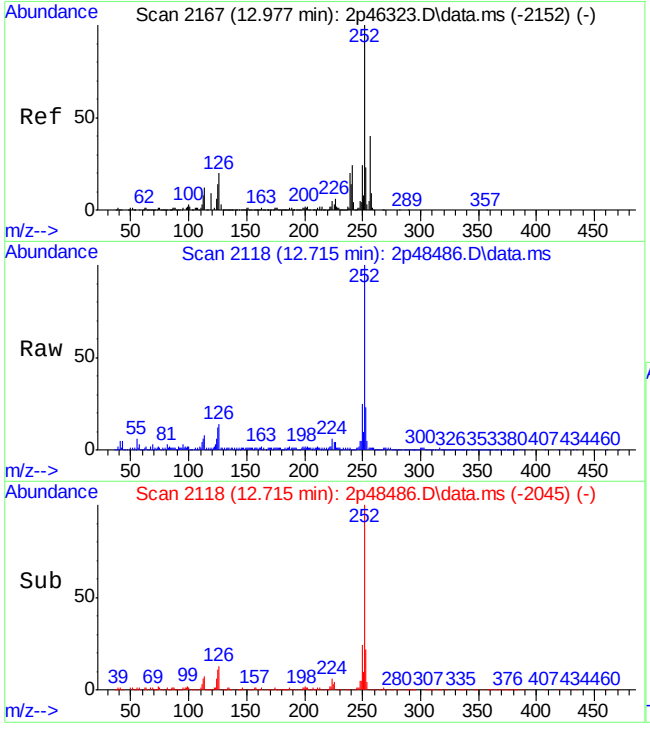


#90
Chrysene
Concen: 15.58 ppm
RT: 11.255 min Scan# 1845
Delta R.T. -0.118 min
Lab File: 2p48486.D
Acq: 12 May 2015 12:14 am

Tgt Ion:228 Resp: 171207

Ion	Ratio	Lower	Upper
228	100		
226	32.1	0.0	58.8
229	21.9	0.0	49.1

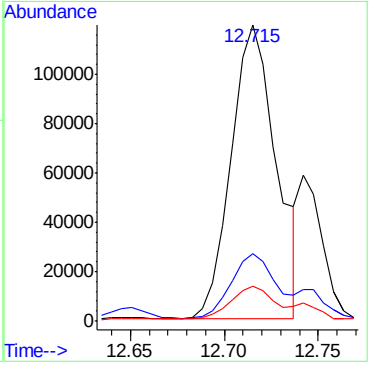




#94
Benzo[b]fluoranthene
Concen: 17.79 ppm
RT: 12.715 min Scan# 2118
Delta R.T. -0.107 min
Lab File: 2p48486.D
Acq: 12 May 2015 12:14 am

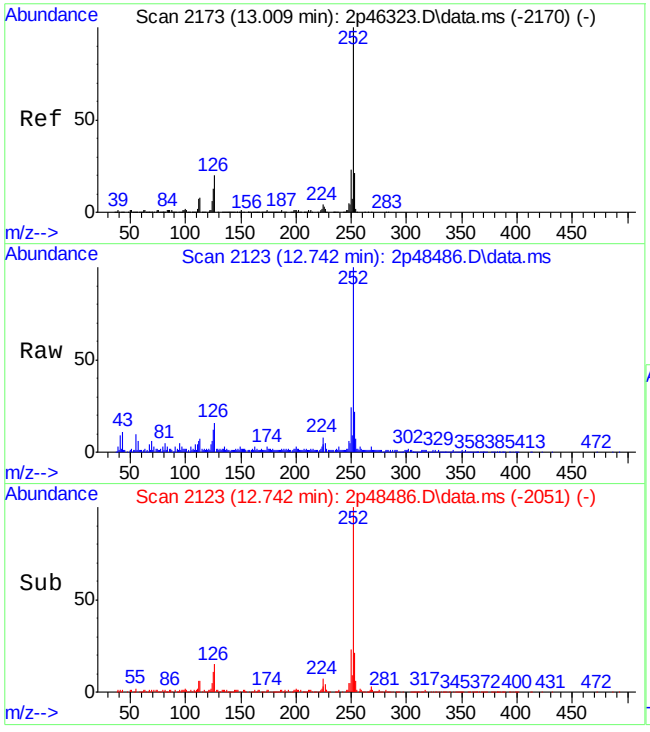
Tgt Ion:252 Resp: 198834

Ion	Ratio	Lower	Upper
252	100		
253	22.0	0.0	52.1
125	11.3	0.0	42.9



9.1.21

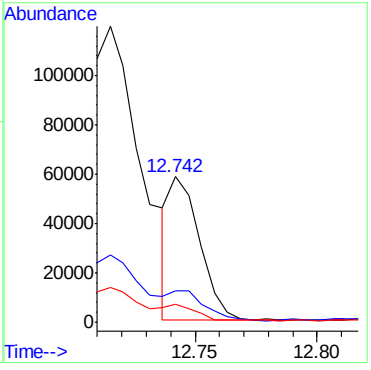
9

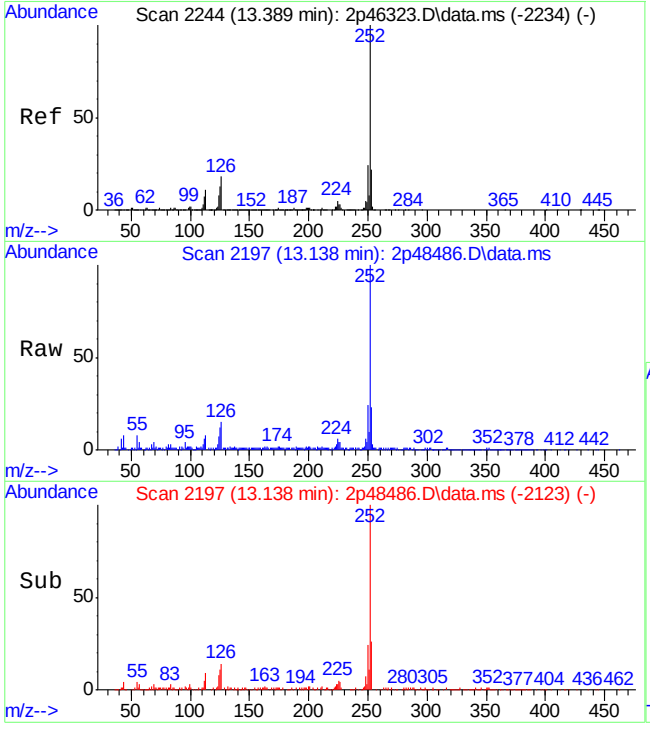


#95
Benzo[k]fluoranthene
Concen: 4.66 ppm
RT: 12.742 min Scan# 2123
Delta R.T. -0.112 min
Lab File: 2p48486.D
Acq: 12 May 2015 12:14 am

Tgt Ion:252 Resp: 49326

Ion	Ratio	Lower	Upper
252	100		
253	19.2	0.0	51.5
125	10.9	0.0	42.7

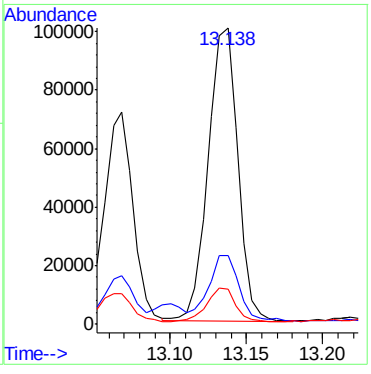


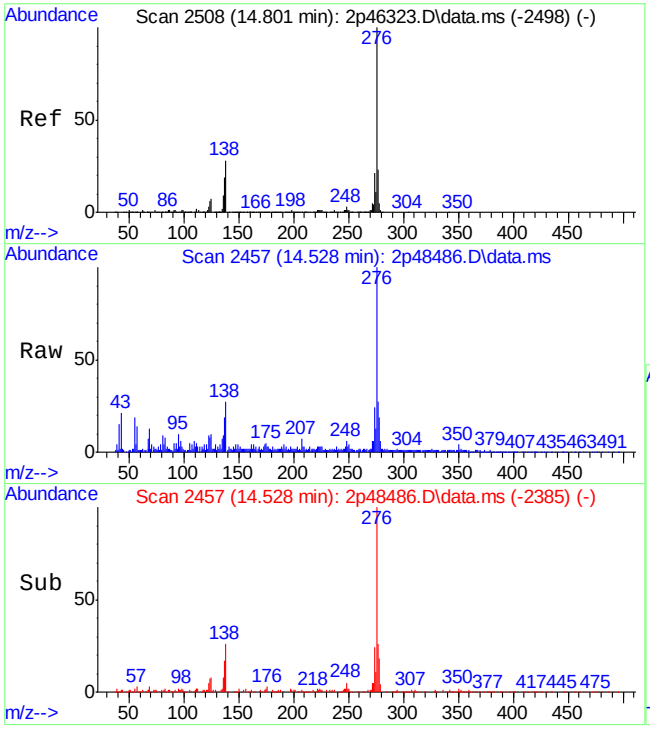


#96
Benzo[a]pyrene
Concen: 14.05 ppm
RT: 13.138 min Scan# 2197
Delta R.T. -0.102 min
Lab File: 2p48486.D
Acq: 12 May 2015 12:14 am

Tgt Ion:252 Resp: 135793

Ion	Ratio	Lower	Upper
252	100		
253	19.8	0.0	51.8
125	10.9	0.0	45.1

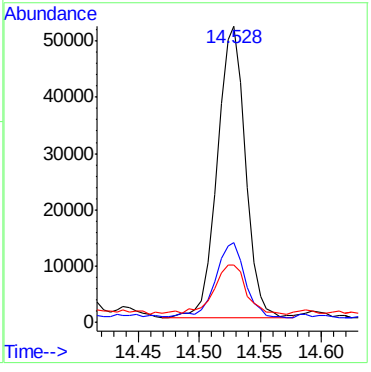


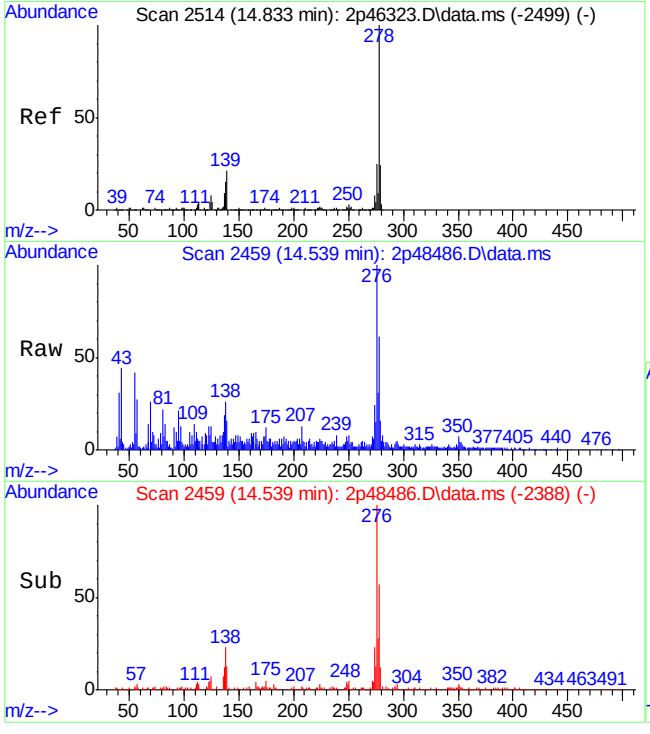


#97
Indeno[1,2,3-cd]pyrene
Concen: 7.50 ppm
RT: 14.528 min Scan# 2457
Delta R.T. -0.112 min
Lab File: 2p48486.D
Acq: 12 May 2015 12:14 am

Tgt Ion:276 Resp: 83046

Ion	Ratio	Lower	Upper
276	100		
138	25.6	1.0	61.0
137	16.3	0.0	52.7

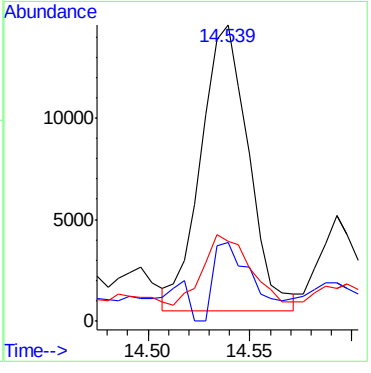


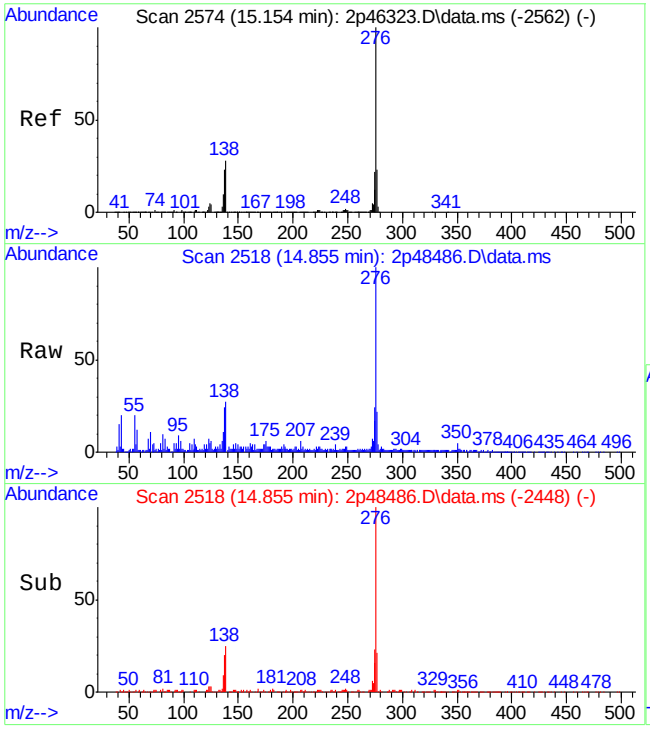


#99
Dibenz[a,h]anthracene
Concen: 2.55 ppm
RT: 14.539 min Scan# 2459
Delta R.T. -0.118 min
Lab File: 2p48486.D
Acq: 12 May 2015 12:14 am

Tgt Ion:278 Resp: 22917

Ion	Ratio	Lower	Upper
278	100		
139	21.0	0.0	56.2
279	22.4	0.0	54.2

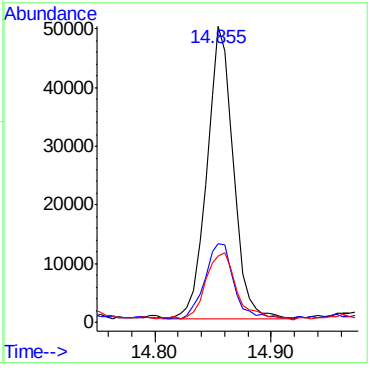




#101
Benzo[g,h,i]perylene
Concen: 8.64 ppm
RT: 14.855 min Scan# 2518
Delta R.T. -0.123 min
Lab File: 2p48486.D
Acq: 12 May 2015 12:14 am

Tgt Ion:276 Resp: 78985

Ion	Ratio	Lower	Upper
276	100		
138	25.3	3.5	63.5
277	21.5	0.0	53.3



9.1.21

9

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48486.D
Acq On : 12 May 2015 12:14 am
Operator : sarad
Sample : jb94209-10
Misc : op83787,e2p2069,30.5
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: 2p48486.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.419	3	6	18	rVB	45977	62873	3.32%	0.240%
2	1.537	18	28	37	rVV2	145651	267067	14.09%	1.019%
3	2.890	278	281	299	rVV	210249	214326	11.31%	0.818%
4	3.296	353	357	380	rBV	466563	638348	33.68%	2.437%
5	3.708	422	434	448	rVV	35951	78993	4.17%	0.302%
6	3.815	451	454	472	rBV	139870	177600	9.37%	0.678%
7	4.147	511	516	542	rVV	490446	739750	39.03%	2.824%
8	4.323	542	549	564	rVV	1570131	1098988	57.98%	4.195%
9	4.794	629	637	643	rBV	860433	621454	32.78%	2.372%
10	5.377	740	746	760	rBV	1892122	1313820	69.31%	5.015%
11	5.965	846	856	862	rBV4	49780	77405	4.08%	0.295%
12	6.270	901	913	925	rBV	1708183	1278791	67.46%	4.881%
13	6.634	971	981	988	rBV7	21232	41545	2.19%	0.159%
14	6.698	988	993	997	rBV	99414	80781	4.26%	0.308%
15	6.816	1006	1015	1018	rBV	2199096	1462973	77.18%	5.584%
16	6.837	1018	1019	1025	rVB	89221	63641	3.36%	0.243%
17	6.901	1025	1031	1036	rBV2	46704	48419	2.55%	0.185%
18	6.981	1042	1046	1051	rBV2	65534	58247	3.07%	0.222%
19	7.265	1096	1099	1105	rVB	94478	81271	4.29%	0.310%
20	7.399	1113	1124	1130	rBV6	46251	76364	4.03%	0.291%
21	7.473	1130	1138	1148	rBV3	637909	685234	36.15%	2.616%
22	7.586	1152	1159	1164	rVB3	44580	69518	3.67%	0.265%
23	7.837	1203	1206	1214	rBV5	25973	52179	2.75%	0.199%
24	7.891	1214	1216	1220	rVB	61159	49744	2.62%	0.190%
25	7.960	1226	1229	1235	rVB2	54711	56372	2.97%	0.215%
26	8.056	1242	1247	1250	rBV	1617759	1568774	82.76%	5.988%
27	8.078	1250	1251	1255	rVB	1177411	646059	34.08%	2.466%
28	8.126	1255	1260	1265	rVB	193809	173144	9.13%	0.661%
29	8.308	1290	1294	1298	rBV	94184	101197	5.34%	0.386%
30	8.383	1303	1308	1314	rVB7	28990	48187	2.54%	0.184%
31	8.549	1335	1339	1342	rBV	130869	117804	6.21%	0.450%
32	8.575	1342	1344	1348	rVB	149774	120319	6.35%	0.459%
33	8.623	1348	1353	1356	rBV2	45526	39258	2.07%	0.150%
34	8.656	1356	1359	1362	rBV2	203049	212728	11.22%	0.812%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48486.D
Acq On : 12 May 2015 12:14 am
Operator : sarad
Sample : jb94209-10
Misc : op83787,e2p2069,30.5
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

35	8.682	1362	1364	1370	rVB	98189	99143	5.23%	0.378%
36	8.795	1382	1385	1392	rBV5	24088	45440	2.40%	0.173%
37	8.864	1392	1398	1401	rBV2	88314	90477	4.77%	0.345%
38	8.902	1401	1405	1411	rVB	128668	113423	5.98%	0.433%
39	9.025	1423	1428	1433	rBV7	37848	59638	3.15%	0.228%
40	9.153	1445	1452	1455	rBV	76011	95505	5.04%	0.365%
41	9.190	1455	1459	1462	rVV5	28608	39700	2.09%	0.152%
42	9.249	1467	1470	1476	rBV4	76738	99935	5.27%	0.381%
43	9.329	1478	1485	1495	rVB	1206064	1175696	62.02%	4.488%
44	9.404	1495	1499	1502	rBV3	36417	51516	2.72%	0.197%
45	9.436	1502	1505	1513	rVB	43613	55816	2.94%	0.213%
46	9.495	1513	1516	1527	rBV4	52590	111131	5.86%	0.424%
47	9.597	1527	1535	1543	rVB	1040031	1151810	60.76%	4.396%
48	9.666	1543	1548	1552	rBV2	39298	64742	3.42%	0.247%
49	9.757	1558	1565	1569	rBV2	57003	84262	4.45%	0.322%
50	9.816	1569	1576	1581	rVB	1098399	1153372	60.85%	4.402%
51	9.891	1582	1590	1596	rVB3	50063	81001	4.27%	0.309%
52	9.998	1602	1610	1613	rBV5	57263	124766	6.58%	0.476%
53	10.025	1613	1615	1622	rVB	94301	109004	5.75%	0.416%
54	10.116	1627	1632	1636	rVB	55572	64995	3.43%	0.248%
55	10.159	1636	1640	1647	rBV2	102669	169533	8.94%	0.647%
56	10.276	1658	1662	1666	rVB	50740	55585	2.93%	0.212%
57	10.314	1666	1669	1674	rBV	41346	48300	2.55%	0.184%
58	10.554	1709	1714	1718	rBV7	20117	41826	2.21%	0.160%
59	10.602	1718	1723	1730	rVB9	24045	48163	2.54%	0.184%
60	10.720	1737	1745	1753	rVV	79276	129606	6.84%	0.495%
61	10.859	1764	1771	1775	rVV2	79266	152167	8.03%	0.581%
62	10.891	1775	1777	1780	rVV	69073	76906	4.06%	0.294%
63	10.923	1780	1783	1786	rVV	44505	56016	2.96%	0.214%
64	10.961	1786	1790	1794	rVV3	50952	76980	4.06%	0.294%
65	11.020	1798	1801	1808	rVB	76813	96390	5.09%	0.368%
66	11.223	1822	1839	1843	rBV2	1190211	1895559	100.00%	7.235%
67	11.255	1843	1845	1853	rVV2	371288	443414	23.39%	1.693%
68	11.357	1859	1864	1870	rBV3	47609	68134	3.59%	0.260%
69	11.442	1874	1880	1883	rBV4	26907	42845	2.26%	0.164%
70	11.522	1893	1895	1903	rVB2	28940	52131	2.75%	0.199%
71	11.597	1905	1909	1913	rVB	38873	52561	2.77%	0.201%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48486.D
Acq On : 12 May 2015 12:14 am
Operator : sarad
Sample : jb94209-10
Misc : op83787,e2p2069,30.5
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

72	11.763	1933	1940	1941	rBV3	22880	40621	2.14%	0.155%
73	11.801	1942	1947	1951	rVV	74740	106772	5.63%	0.408%
74	11.849	1952	1956	1959	rVB2	38751	44616	2.35%	0.170%
75	11.972	1976	1979	1988	rBV6	22736	52683	2.78%	0.201%
76	12.111	1996	2005	2007	rBV10	30454	66351	3.50%	0.253%
77	12.282	2025	2037	2052	rBV10	57504	177246	9.35%	0.677%
78	12.517	2073	2081	2088	rBV5	38709	101522	5.36%	0.388%
79	12.592	2089	2095	2098	rBV8	23829	50873	2.68%	0.194%
80	12.715	2111	2118	2133	rBV	335998	753643	39.76%	2.877%
81	12.844	2133	2142	2146	rBV2	72224	136571	7.20%	0.521%
82	12.988	2162	2169	2173	rBV8	21986	51065	2.69%	0.195%
83	13.068	2176	2184	2188	rVV	205539	302957	15.98%	1.156%
84	13.132	2189	2196	2204	rVB	273976	403589	21.29%	1.541%
85	13.218	2204	2212	2221	rBV	866492	1253760	66.14%	4.786%
86	13.287	2221	2225	2229	rBV7	22131	37197	1.96%	0.142%
87	13.667	2292	2296	2301	rBV7	41658	58820	3.10%	0.225%
88	13.774	2310	2316	2321	rBV10	28688	62012	3.27%	0.237%
89	13.876	2329	2335	2346	rBV10	42494	112603	5.94%	0.430%
90	14.042	2359	2366	2370	rBV9	21742	52598	2.77%	0.201%
91	14.395	2426	2432	2438	rBV6	41911	88338	4.66%	0.337%
92	14.528	2451	2457	2465	rVB2	183800	308786	16.29%	1.179%
93	14.662	2478	2482	2485	rBV	38153	53518	2.82%	0.204%
94	14.700	2486	2489	2502	rVB7	48806	114134	6.02%	0.436%
95	14.855	2512	2518	2525	rVB	156041	252446	13.32%	0.964%
96	15.036	2546	2552	2560	rVB4	48479	102980	5.43%	0.393%
97	15.496	2635	2638	2647	rVB4	27460	55086	2.91%	0.210%
98	15.684	2667	2673	2692	rVB10	64461	251634	13.27%	0.960%
99	16.010	2728	2734	2744	rVB3	77610	173477	9.15%	0.662%
100	16.555	2830	2836	2847	rVB6	41781	131953	6.96%	0.504%

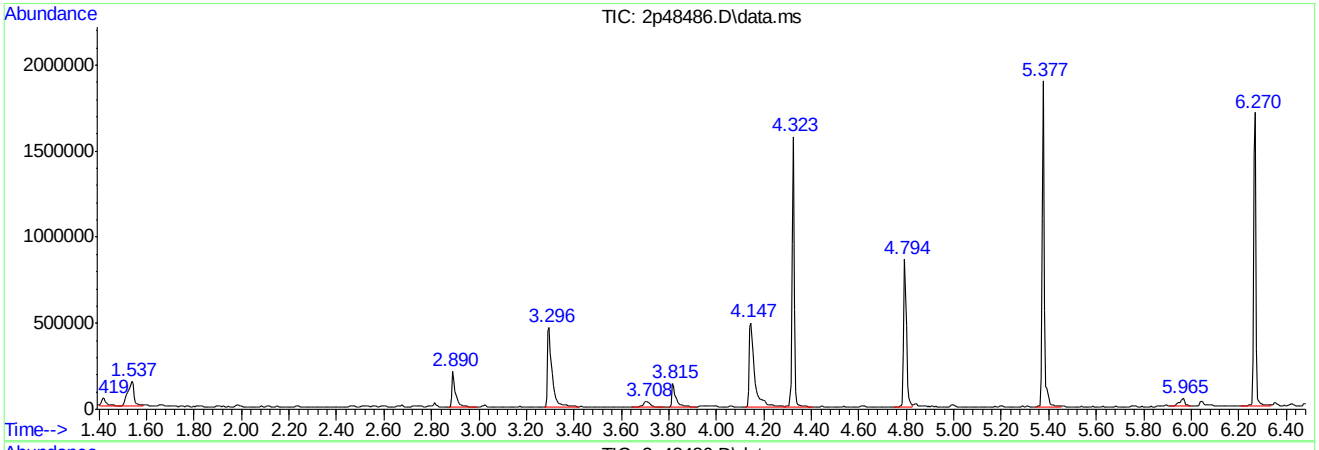
Sum of corrected areas: 26198512

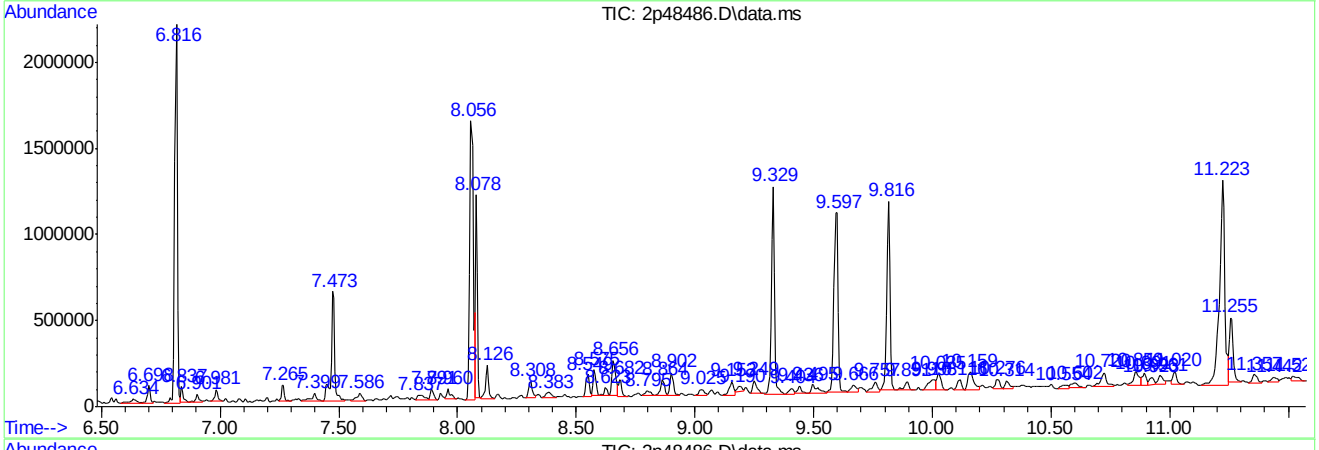
LSC Report - Integrated Chromatogram

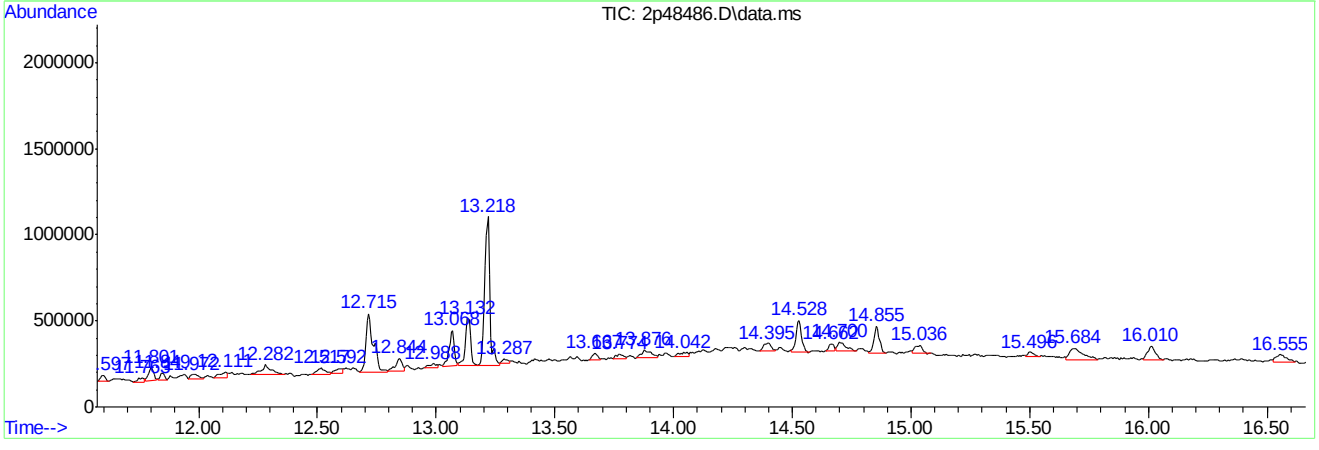
```
Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48486.D
Acq On    : 12 May 2015  12:14 am
Operator  : sarad
Sample    : jb94209-10
Misc      : op83787,e2p2069,30.5
ALS Vial  : 20   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```







Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48486.D
Acq On : 12 May 2015 12:14 am
Operator : sarad
Sample : jb94209-10
Misc : op83787,e2p2069,30.5
ALS Vial : 20 Sample Multiplier: 1

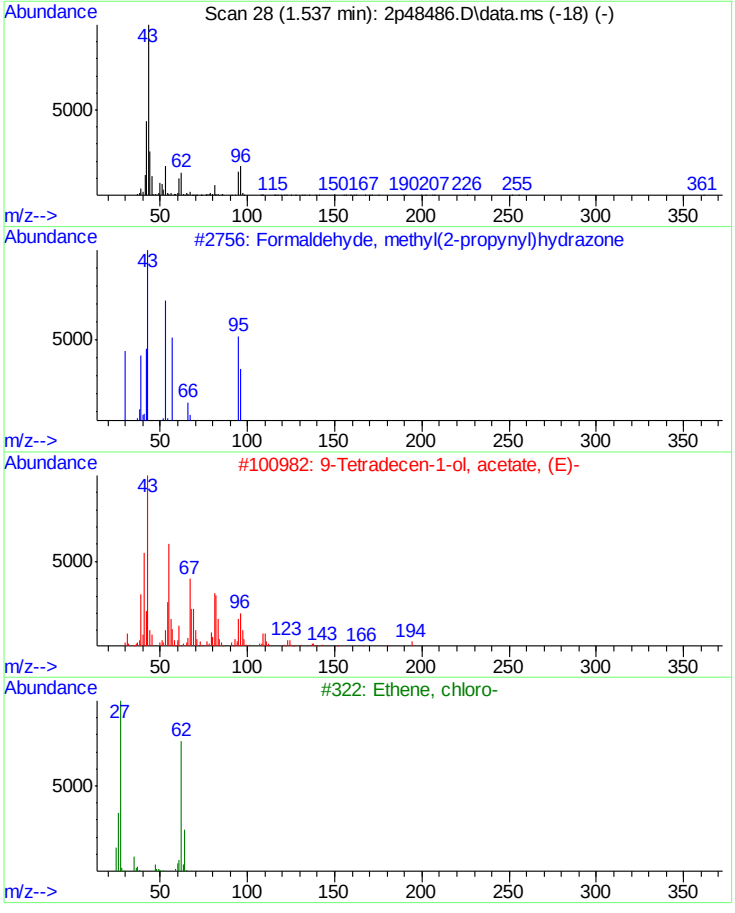
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

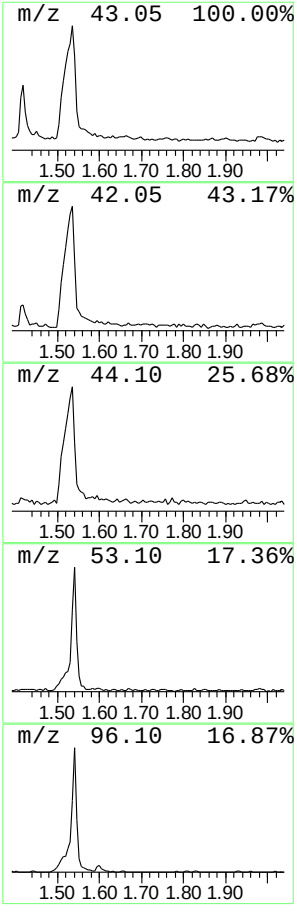
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 1 system artifact Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.537	9.72 ppm	267067	1,4-Dichlorobenzene-d4	4.323

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Formaldehyde, methyl(2-propynyl)...	96	C5H8N2	110213-10-0	9
2	9-Tetradecen-1-ol, acetate, (E)-	254	C16H30O2	023192-82-7	9
3	Ethene, chloro-	62	C2H3Cl	000075-01-4	7
4	Ethanethiol	62	C2H6S	000075-08-1	4
5	n-Propyl fluoride	62	C3H7F	000460-13-9	4





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48486.D
Acq On : 12 May 2015 12:14 am
Operator : sarad
Sample : jb94209-10
Misc : op83787,e2p2069,30.5
ALS Vial : 20 Sample Multiplier: 1

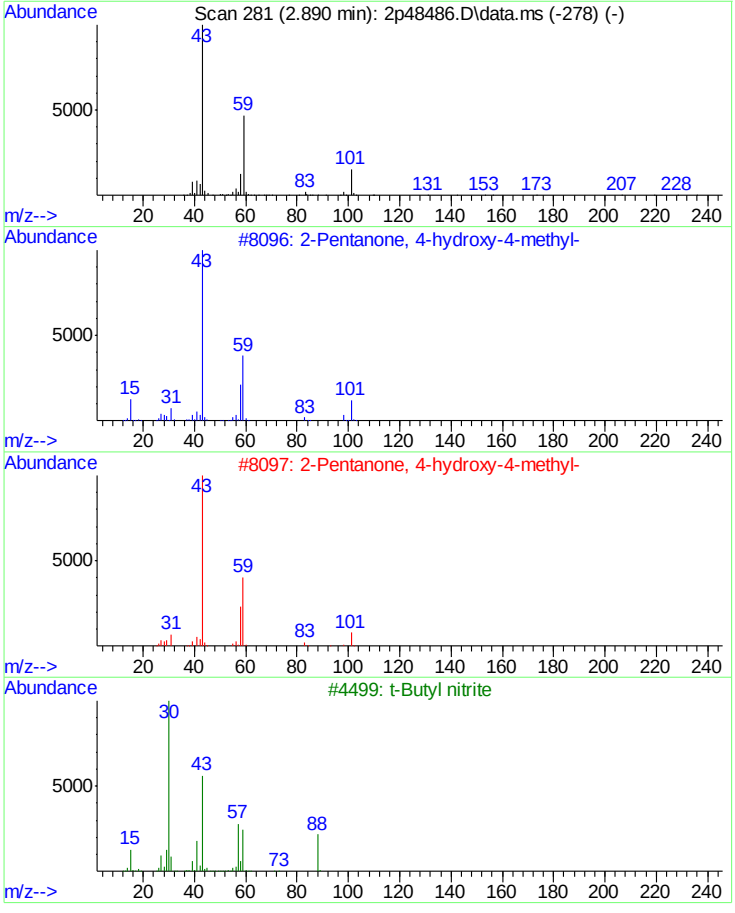
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

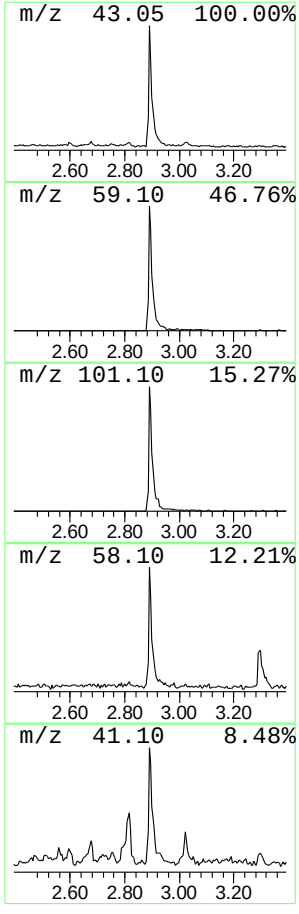
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 2 system artifact/aldol-conde... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.890	7.80 ppm	214326	1,4-Dichlorobenzene-d4	4.323

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
3	t-Butyl nitrite	103	C4H9NO2	000540-80-7	39
4	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	28
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	27





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48486.D
Acq On : 12 May 2015 12:14 am
Operator : sarad
Sample : jb94209-10
Misc : op83787,e2p2069,30.5
ALS Vial : 20 Sample Multiplier: 1

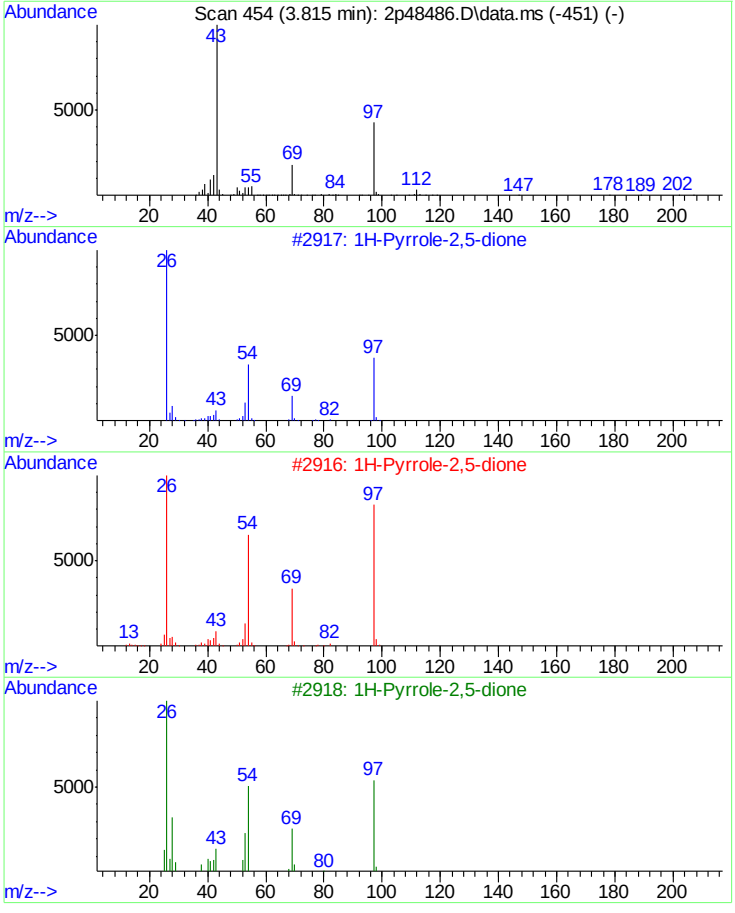
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

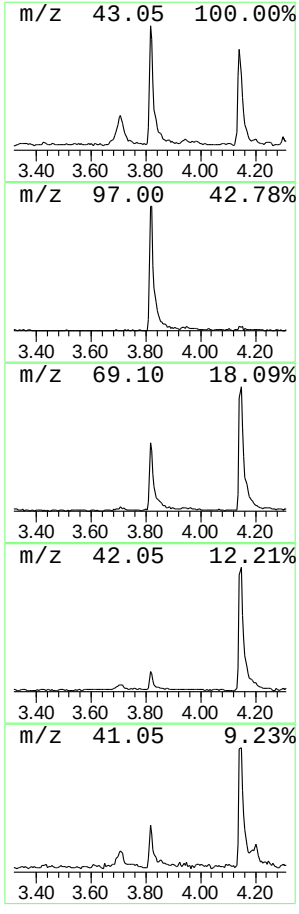
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 3 unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.815	6.46 ppm	177600	1,4-Dichlorobenzene-d4	4.323

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	28
2	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	9
3	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	9
4	Butanenitrile, 3-methyl-	83	C5H9N	000625-28-5	9
5	Acetyl cyanide	69	C3H3NO	000631-57-2	7





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48486.D
Acq On : 12 May 2015 12:14 am
Operator : sarad
Sample : jb94209-10
Misc : op83787,e2p2069,30.5
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

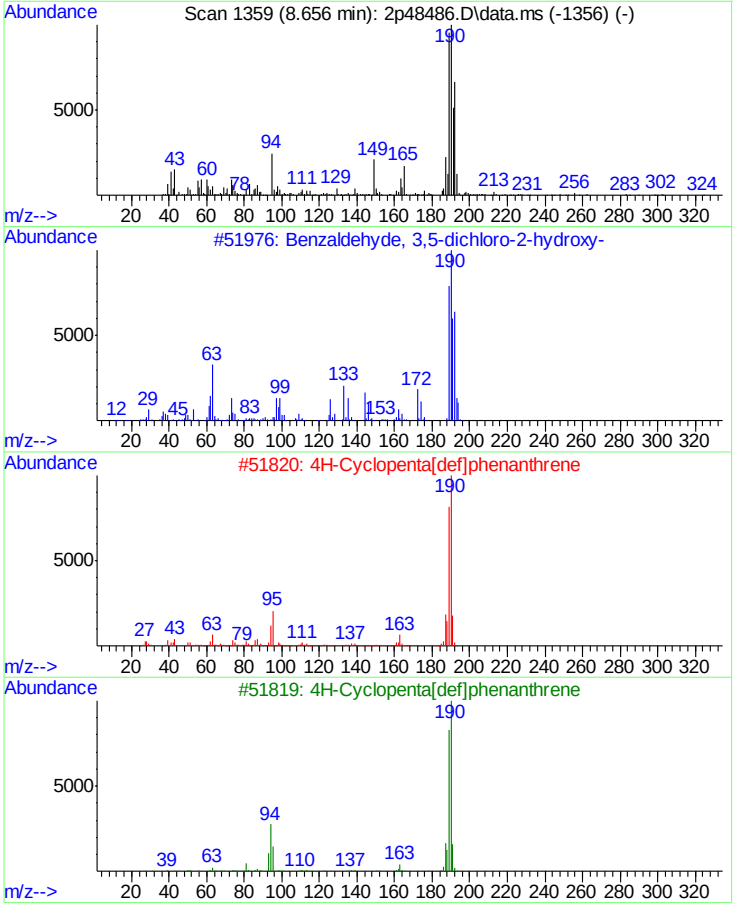
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

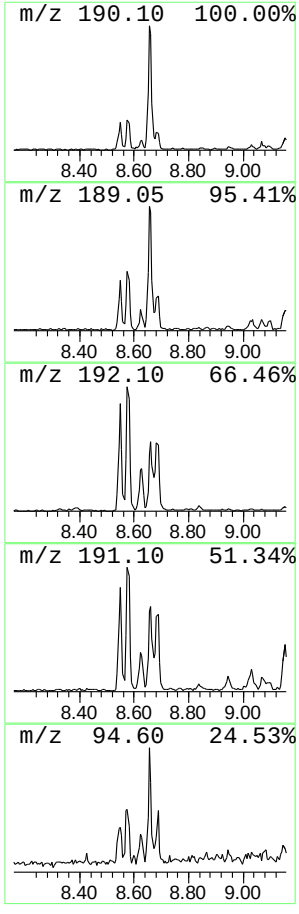
****

Peak Number 4 unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.656	5.42 ppm	212728	Phenanthrene-d10	8.056

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	64
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	53
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	52
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	35
5	1a,9b-Dihydro-1H-cyclopropa[a]an...	192	C15H12	006109-24-6	35





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48486.D
Acq On : 12 May 2015 12:14 am
Operator : sarad
Sample : jb94209-10
Misc : op83787,e2p2069,30.5
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

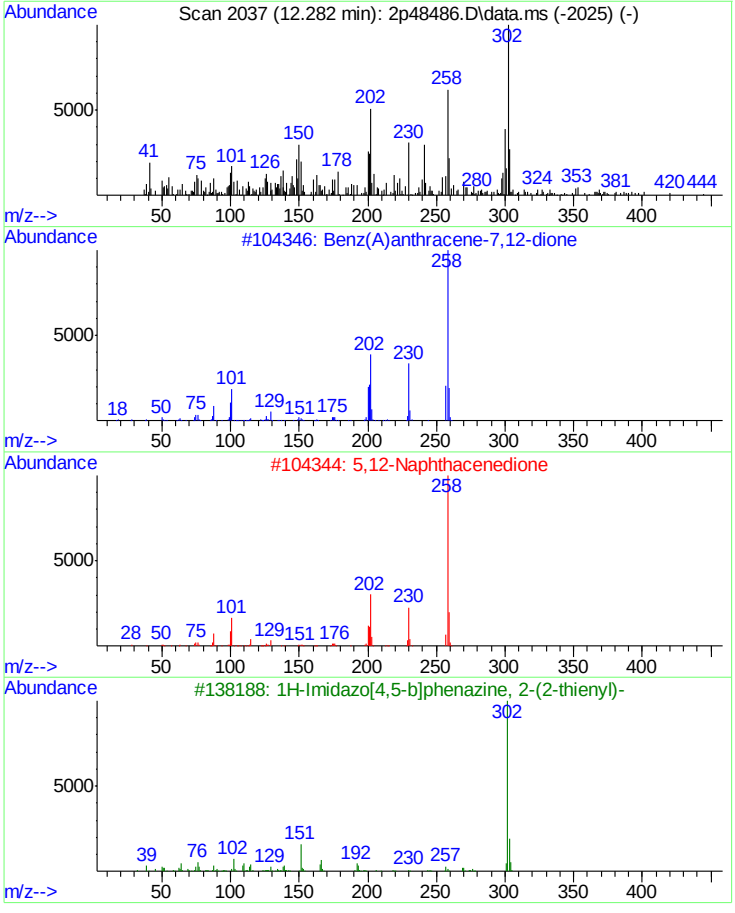
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

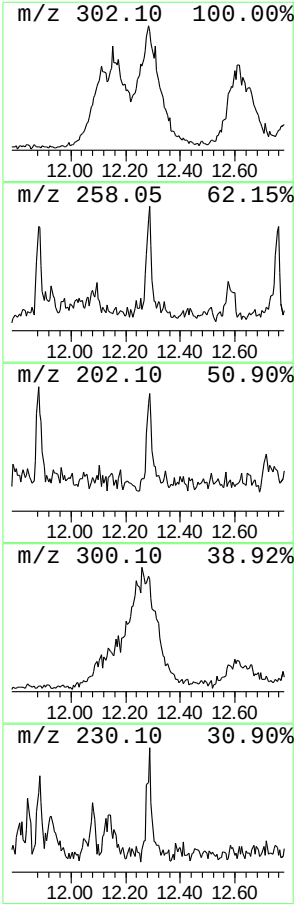
****

Peak Number 5 unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.282	5.65 ppm	177246	Perylene-d12	13.218

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz(A)anthracene-7,12-dione	258	C18H10O2	002498-66-0	47
2	5,12-Naphthacenedione	258	C18H10O2	001090-13-7	38
3	1H-Imidazo[4,5-b]phenazine, 2-(2...	302	C17H10N4S	1000319-15-8	38
4	4-(1-Naphthyl)-5-phenyl-2-thiazo...	302	C19H14N2S	109693-78-9	35
5	3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	30





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48486.D
Acq On : 12 May 2015 12:14 am
Operator : sarad
Sample : jb94209-10
Misc : op83787,e2p2069,30.5
ALS Vial : 20 Sample Multiplier: 1

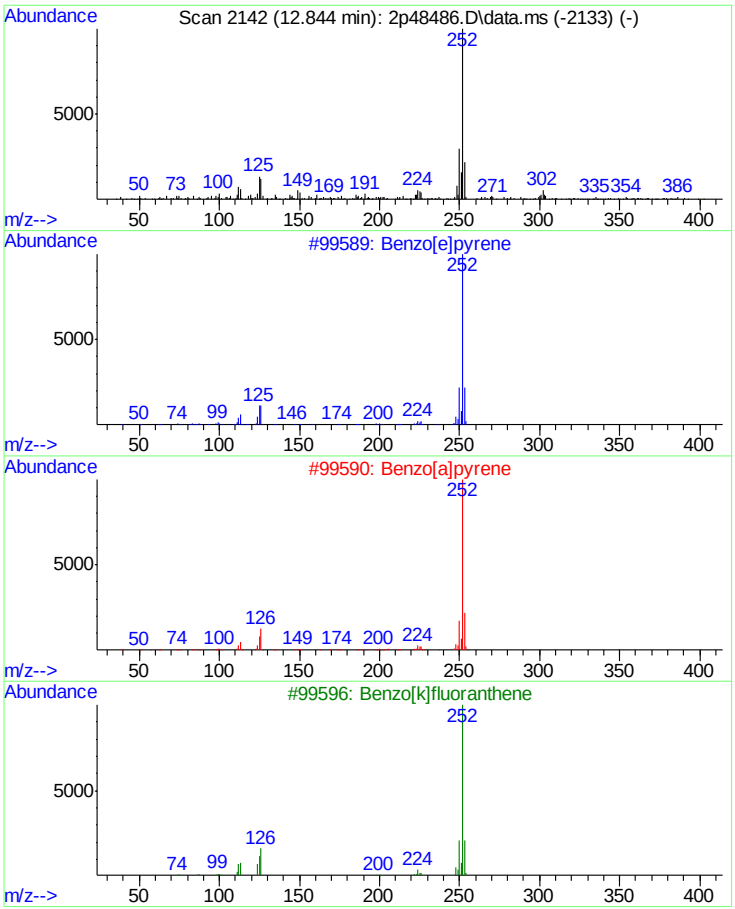
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

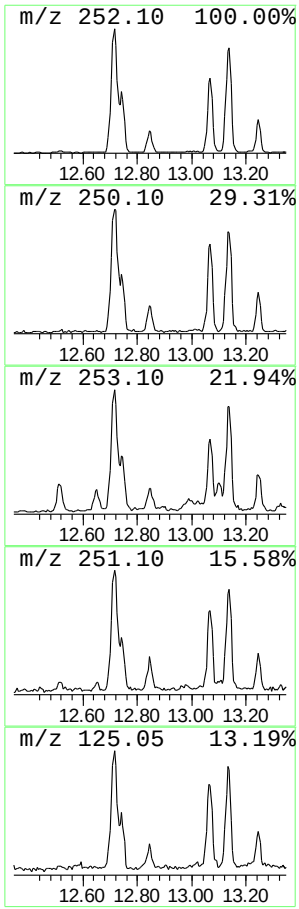
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 6 unknown PAH substance Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.844	4.36 ppm	136571	Perylene-d12	13.218

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	90
2	Benzo[a]pyrene	252	C20H12	000050-32-8	81
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	76
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	76
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	76





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48486.D
Acq On    : 12 May 2015  12:14 am
Operator  : sarad
Sample    : jb94209-10
Misc      : op83787,e2p2069,30.5
ALS Vial  : 20   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```
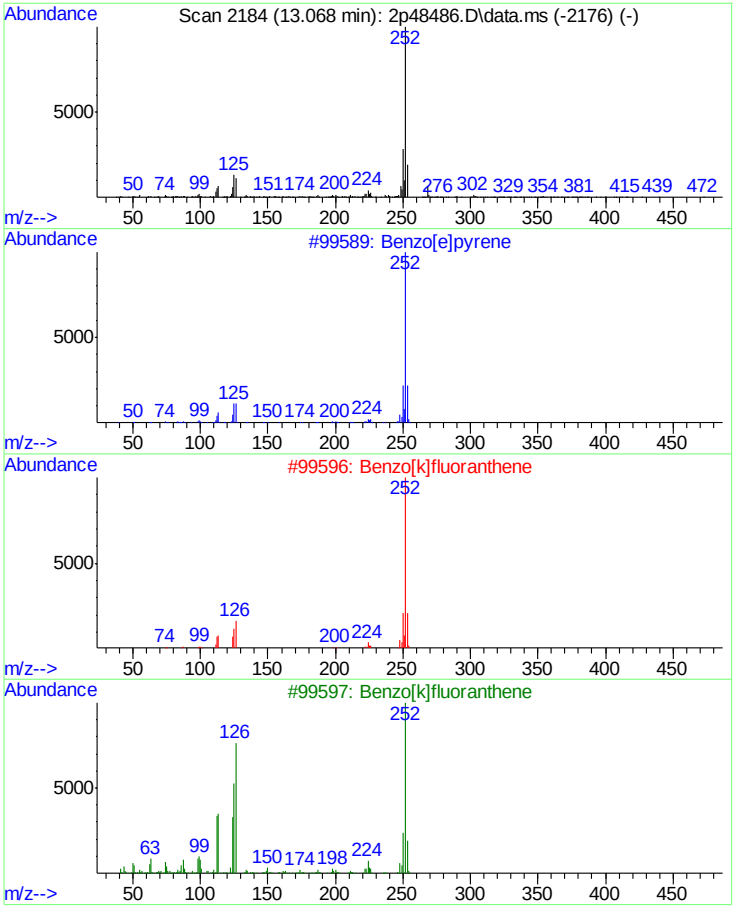
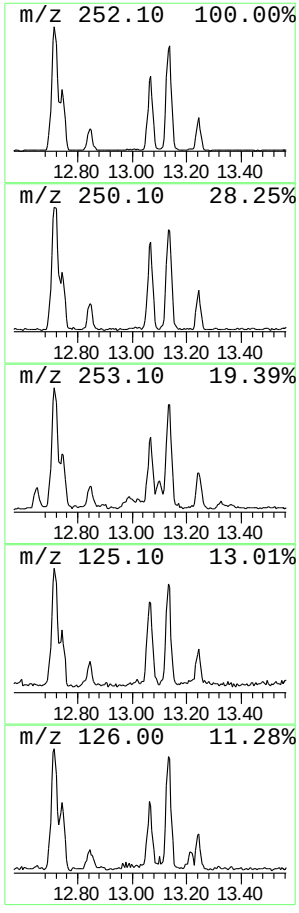

****

Peak Number 7 unknown PAH substance Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.068	9.67 ppm	302957	Perylene-d12	13.218

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	96
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
4	Benzo[a]pyrene	252	C20H12	000050-32-8	95
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48486.D
Acq On    : 12 May 2015  12:14 am
Operator  : sarad
Sample    : jb94209-10
Misc      : op83787,e2p2069,30.5
ALS Vial  : 20   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

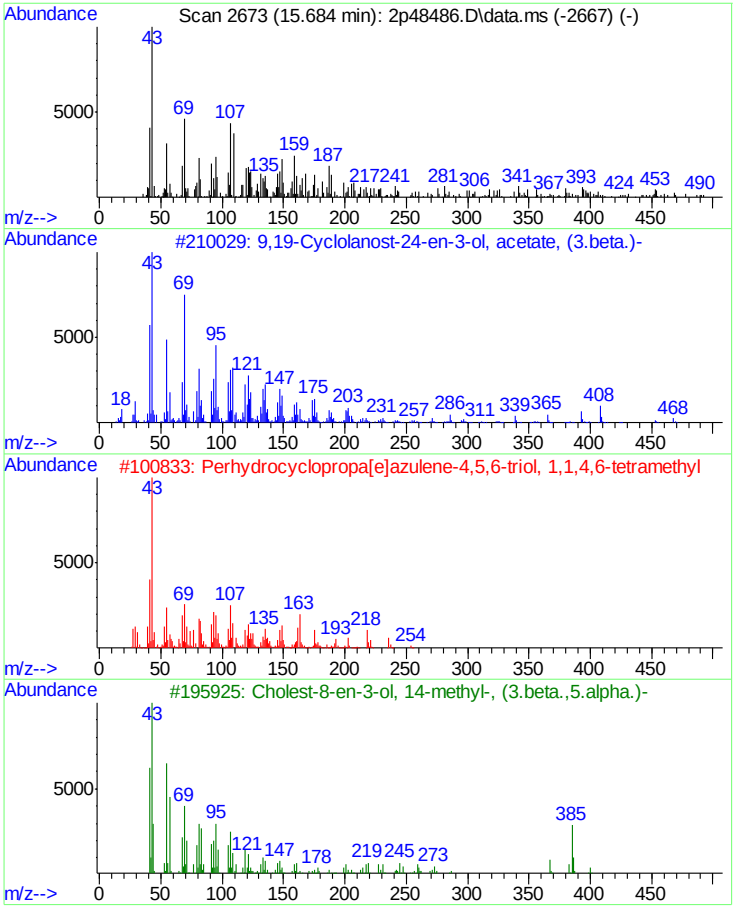
TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

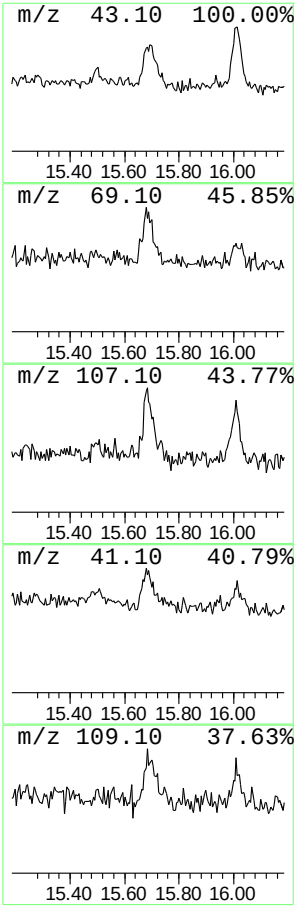
****

Peak Number 8 unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.684	8.03 ppm	251634	Perylene-d12	13.218

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,19-Cyclolanost-24-en-3-ol, ace...	468	C32H52O2	001259-10-5	51
2	Perhydrocyclopropa[e]azulene-4,5...	254	C15H26O3	1000197-87-8	38
3	Cholest-8-en-3-ol, 14-methyl-, (...	400	C28H48O	006062-47-1	25
4	Isocholesteryl methyl ether	400	C28H48O	029944-53-4	22
5	cis-Z-.alpha.-Bisabolene epoxide	220	C15H24O	1000131-71-2	22





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48486.D
Acq On    : 12 May 2015  12:14 am
Operator  : sarad
Sample    : jb94209-10
Misc      : op83787,e2p2069,30.5
ALS Vial  : 20   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```
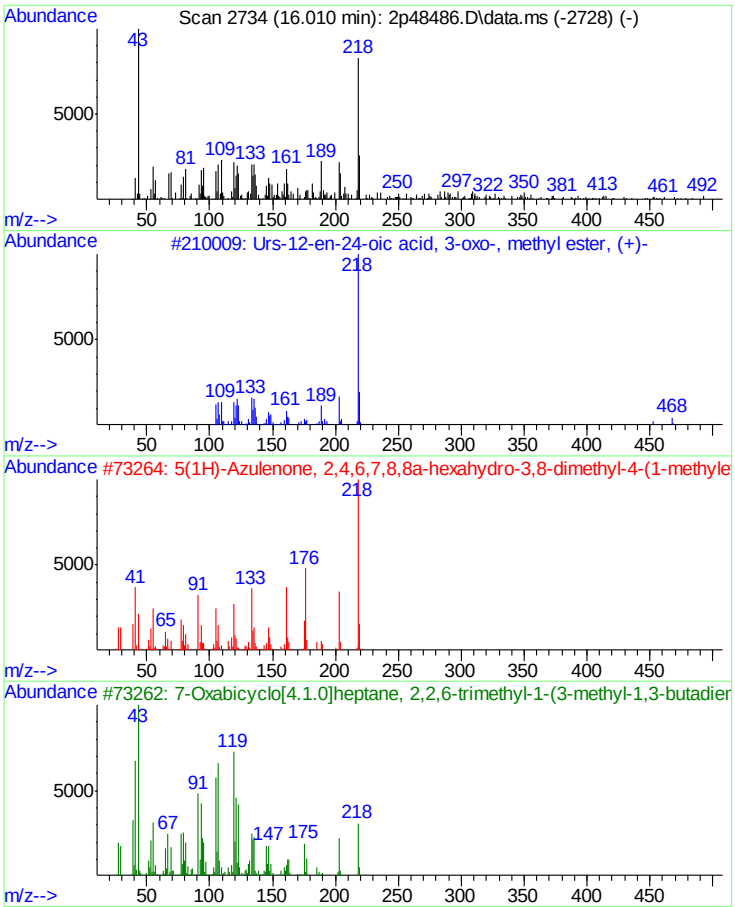
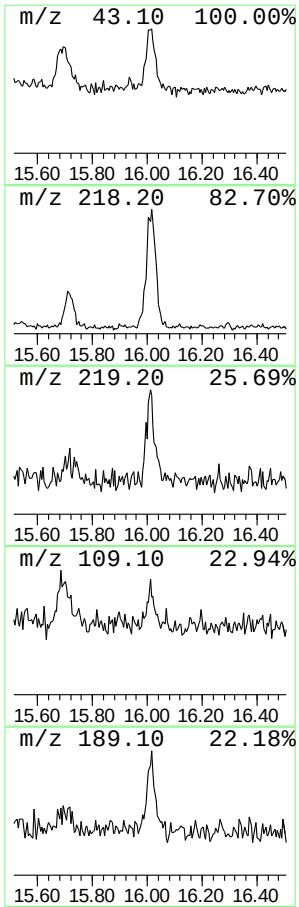

****

Peak Number 9 unknown Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.010	5.53 ppm	173477	Perylene-d12	13.218

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Urs-12-en-24-oic acid, 3-oxo-, m...	468	C31H48O3	020475-86-9	52
2	5(1H)-Azulenone, 2,4,6,7,8,8a-he...	218	C15H22O	006754-66-1	52
3	7-Oxabicyclo[4.1.0]heptane, 2,2,...	218	C15H22O	070038-20-9	45
4	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	43
5	1,4-Naphthalenedione, 5,8-dimeth...	218	C12H10O4	015013-16-8	38





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48486.D
Acq On    : 12 May 2015  12:14 am
Operator  : sarad
Sample    : jb94209-10
Misc      : op83787,e2p2069,30.5
ALS Vial  : 20   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

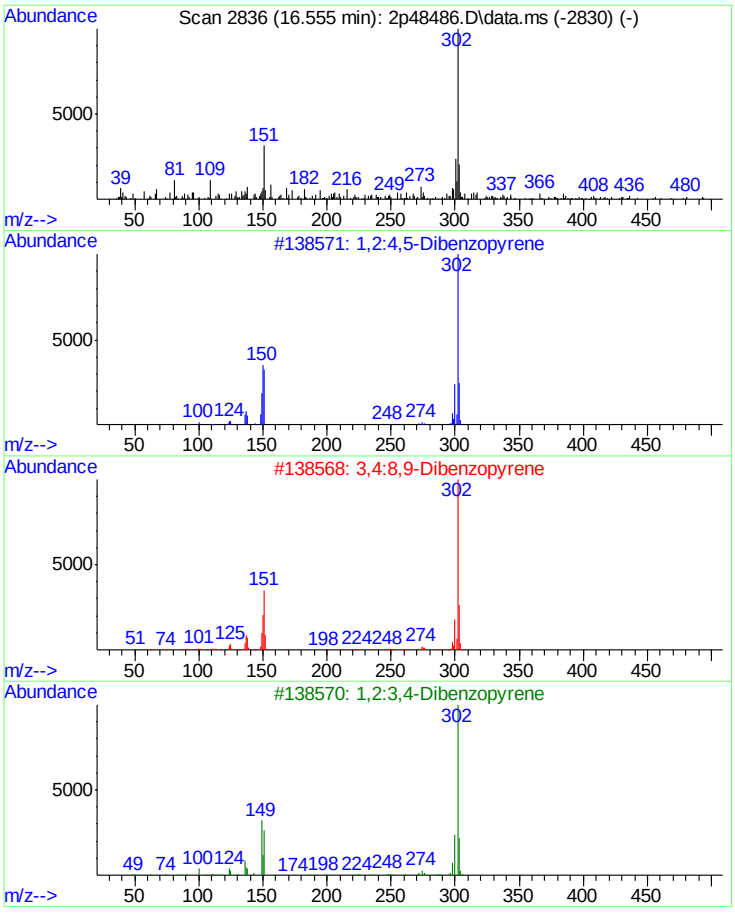
TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

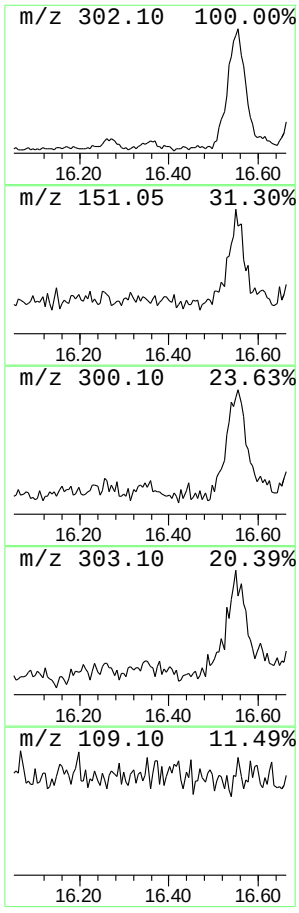
****

Peak Number 10 Dibenzopyrene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.555	4.21 ppm	131953	Perylene-d12	13.218

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	74
2	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	74
3	1,2:3,4-Dibenzopyrene	302	C24H14	000191-30-0	70
4	3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	64
5	Benzo[a]anthracene, 5,6-dihydro-...	302	C18H10F4	1000116-65-8	62





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48486.D
Acq On : 12 May 2015 12:14 am
Operator : sarad
Sample : jb94209-10
Misc : op83787,e2p2069,30.5
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
system artifact	1.537	9.7	ppm	267067	1	4.323	1098990	40.0
system artifact...	2.890	7.8	ppm	214326	1	4.323	1098990	40.0
unknown	3.815	6.5	ppm	177600	1	4.323	1098990	40.0
unknown	8.656	5.4	ppm	212728	7	8.056	1568770	40.0
unknown	12.282	5.7	ppm	177246	10	13.218	1253760	40.0
unknown PAH sub...	12.844	4.4	ppm	136571	10	13.218	1253760	40.0
unknown PAH sub...	13.068	9.7	ppm	302957	10	13.218	1253760	40.0
unknown	15.684	8.0	ppm	251634	10	13.218	1253760	40.0
unknown	16.010	5.5	ppm	173477	10	13.218	1253760	40.0
Dibenzopyrene	16.555	4.2	ppm	131953	10	13.218	1253760	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Kristin Weiler
05/14/15 10:21

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48487.D
Acq On : 12 May 2015 12:35 am
Operator : sarad
Sample : jb94209-11
Misc : op83787,e2p2069,31.2
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 14 10:28:26 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.323	152	133117	40.00 ppm	-0.08
24) Naphthalene-d8	5.377	136	440469	40.00 ppm	-0.08
47) Acenaphthene-d10	6.816	164	254642	40.00 ppm	-0.08
69) Phenanthrene-d10	8.089	188	454005	40.00 ppm	-0.06
83) Chrysene-d12	11.309	240	517270	40.00 ppm	-0.03
92) Perylene-d12	13.304	264	362827	40.00 ppm	-0.02
102) 1,4-Dichlorobenzene-d4a	4.323	152	133117	40.00 ppm	-0.08
104) Naphthalene-d8a	5.377	136	440469	40.00 ppm	#-0.08
106) Acenaphthene-d10a	6.816	164	254642	40.00 ppm	-0.08
109) Chrysene-d12a	11.309	240	517270	40.00 ppm	-0.03
System Monitoring Compounds					
5) 2-Fluorophenol	3.296	112	125303	32.01 ppm	-0.10
Spiked Amount 50.000	Range 11 - 58		Recovery	= 64.02%#	
8) Phenol-d5	4.147	99	148620	30.18 ppm	-0.08
Spiked Amount 50.000	Range 10 - 59		Recovery	= 60.36%#	
25) Nitrobenzene-d5	4.794	82	145600	36.48 ppm	-0.08
Spiked Amount 50.000	Range 19 - 61		Recovery	= 72.96%#	
51) 2-Fluorobiphenyl	6.270	172	334020	38.32 ppm	-0.07
Spiked Amount 50.000	Range 21 - 58		Recovery	= 76.64%#	
73) 2,4,6-Tribromophenol	7.479	330	35072	33.25 ppm	-0.07
Spiked Amount 50.000	Range 12 - 68		Recovery	= 66.50%	
85) Terphenyl-d14	9.843	244	357613	37.16 ppm	-0.07
Spiked Amount 50.000	Range 16 - 65		Recovery	= 74.32%#	
Target Compounds					Qvalue
21) 3&4-Methylphenol	4.773	108	9157	2.46 ppm	81
38) Naphthalene	5.393	128	1113462	96.29 ppm	99
44) 2-Methylnaphthalene	5.965	141	245348	35.79 ppm	94
53) Biphenyl	6.350	154	98394	10.21 ppm	96
56) Acenaphthylene	6.698	152	60187	5.02 ppm	92
59) Acenaphthene	6.848	153	1758486	235.22 ppm	98
62) Dibenzofuran	6.987	168	1273582	127.26 ppm	93
66) Fluorene	7.276	166	1856935	226.69 ppm	98
77) Phenanthrene	8.137	178	18971937	1519.32 ppm	97
78) Anthracene	8.169	178	5370175	425.24 ppm	97
79) Carbazole	8.329	167	2815848	230.84 ppm	98
80) Di-n-butylphthalate	8.661	149	25464	1.87 ppm	85
81) Fluoranthene	9.410	202	25515706	1706.31 ppm	98
84) Pyrene	9.693	202	21310523m	1349.50 ppm	
88) Benzo[a]anthracene	11.298	228	12961873	867.66 ppm	82
90) Chrysene	11.351	228	9003858	674.92 ppm	96
94) Benzo[b]fluoranthene	12.838	252	15021709m	1356.61 ppm	
95) Benzo[k]fluoranthene	12.865	252	1710220m	163.14 ppm	
96) Benzo[a]pyrene	13.272	252	8850237	924.37 ppm	92
97) Indeno[1,2,3-cd]pyrene	14.668	276	5279344	481.10 ppm	96
99) Dibenz[a,h]anthracene	14.635	278	1505941	169.00 ppm	90
101) Benzo[g,h,i]perylene	15.021	276	4301409	474.85 ppm	95

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48487.D
Acq On : 12 May 2015 12:35 am
Operator : sarad
Sample : jb94209-11
Misc : op83787,e2p2069,31.2
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 14 10:28:26 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

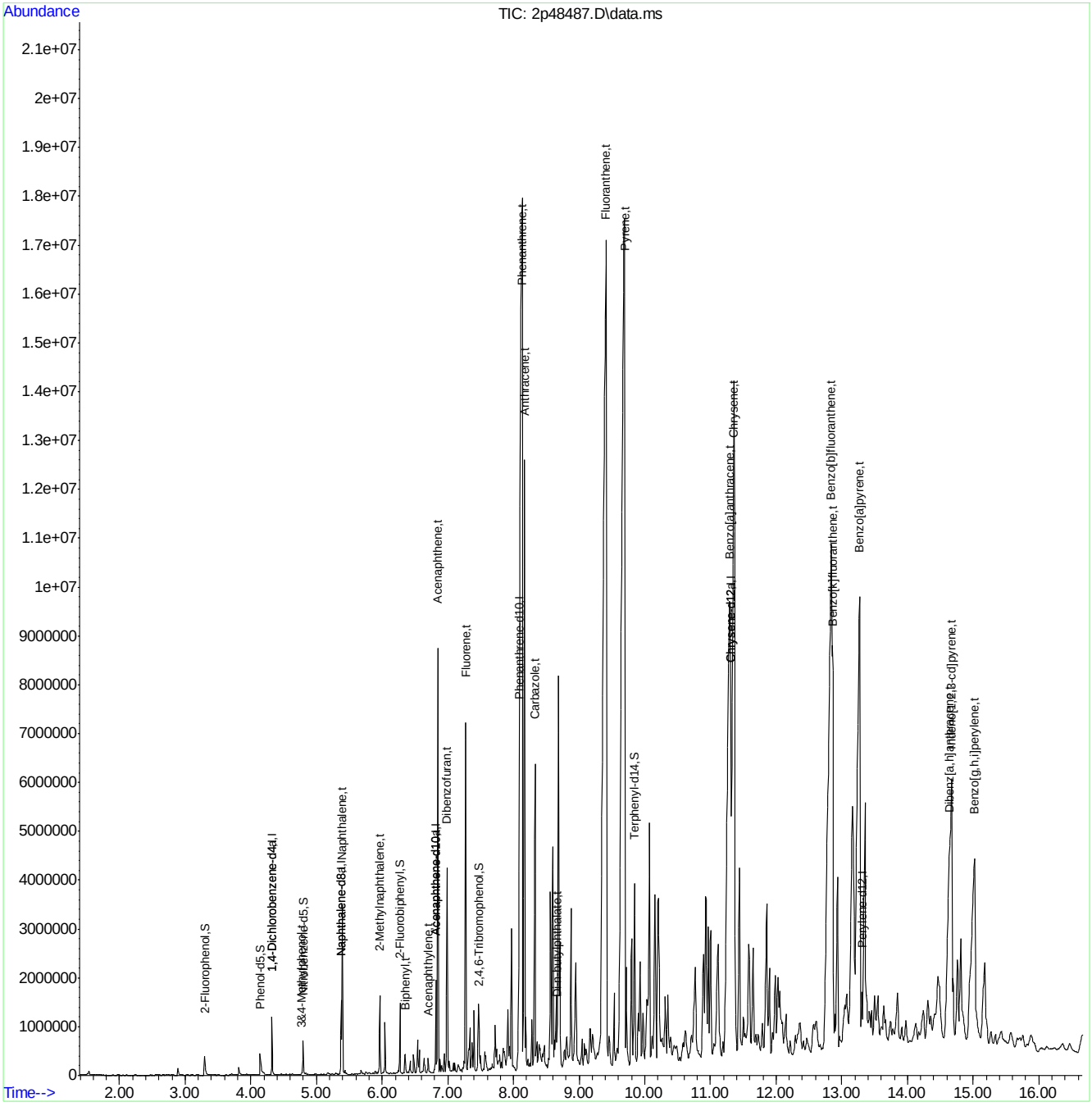
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

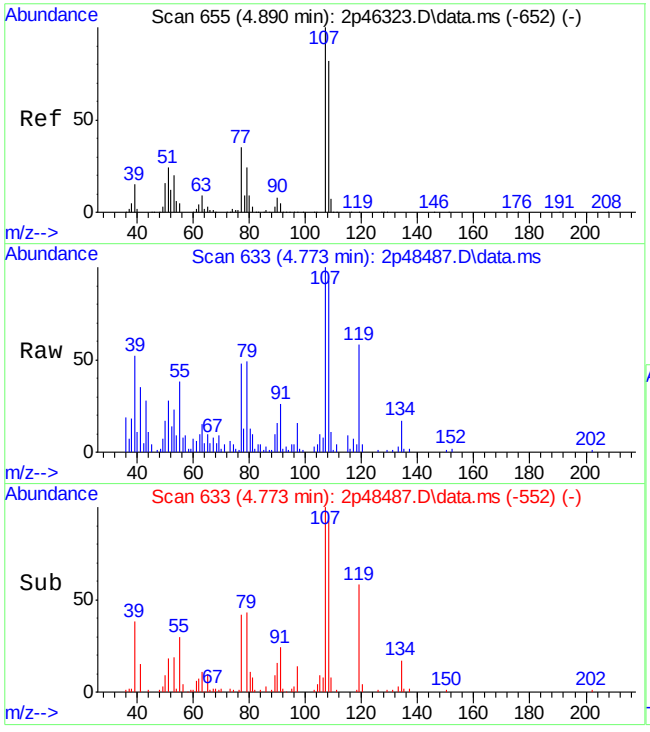
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48487.D
Acq On : 12 May 2015 12:35 am
Operator : sarad
Sample : jb94209-11
Misc : op83787,e2p2069,31.2
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 14 10:28:26 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

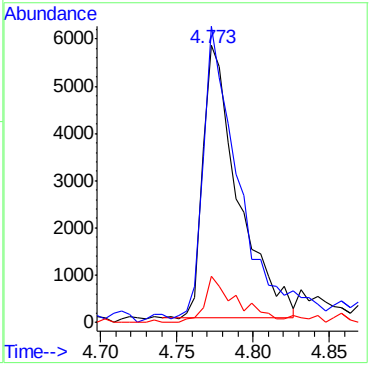


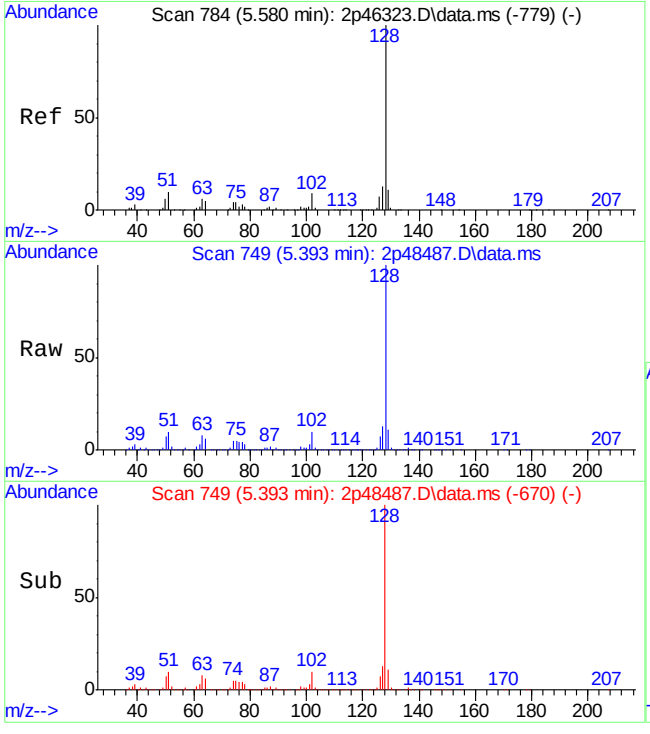


#21
3&4-Methylphenol
Concen: 2.46 ppm
RT: 4.773 min Scan# 633
Delta R.T. -0.069 min
Lab File: 2p48487.D
Acq: 12 May 2015 12:35 am

Tgt Ion:108 Resp: 9157

Ion	Ratio	Lower	Upper
108	100		
107	102.9	94.1	154.1
90	16.1	0.0	39.9

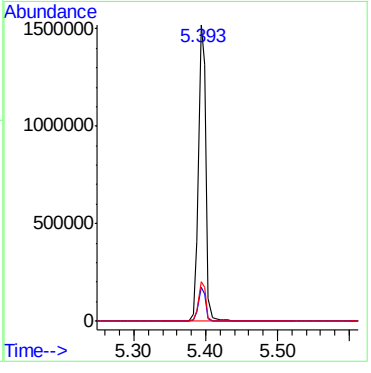


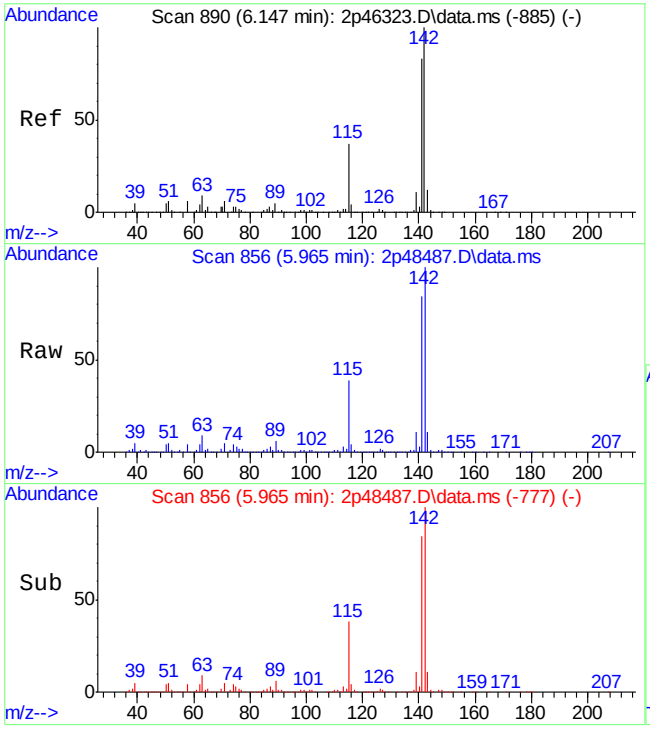


#38
Naphthalene
Concen: 96.29 ppm
RT: 5.393 min Scan# 749
Delta R.T. -0.080 min
Lab File: 2p48487.D
Acq: 12 May 2015 12:35 am

Tgt Ion:128 Resp: 1113462

Ion	Ratio	Lower	Upper
128	100		
129	11.4	0.0	41.0
127	13.3	0.0	43.4

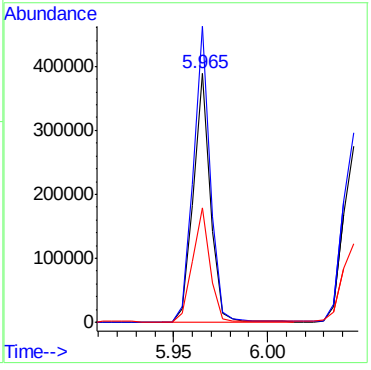


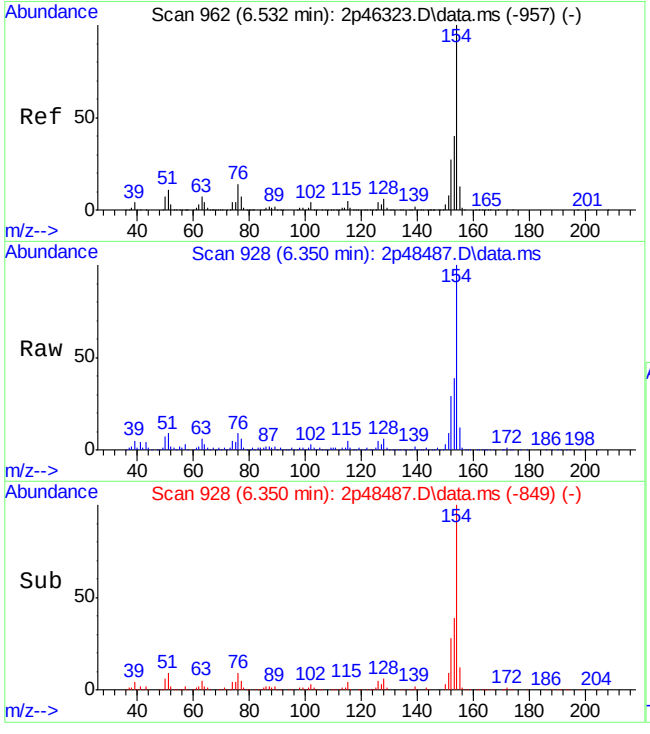


#44
2-Methylnaphthalene
Concen: 35.79 ppm
RT: 5.965 min Scan# 856
Delta R.T. -0.080 min
Lab File: 2p48487.D
Acq: 12 May 2015 12:35 am

Tgt Ion:141 Resp: 245348

Ion	Ratio	Lower	Upper
141	100		
142	118.7	85.1	145.1
115	45.6	6.3	66.3

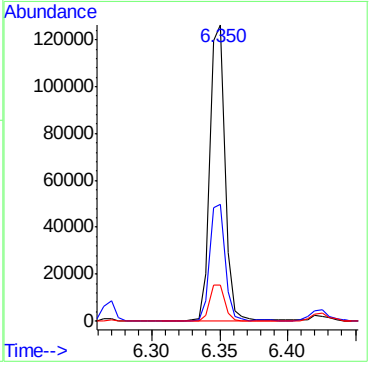




#53
Biphenyl
Concen: 10.21 ppm
RT: 6.350 min Scan# 928
Delta R.T. -0.080 min
Lab File: 2p48487.D
Acq: 12 May 2015 12:35 am

Tgt Ion:154 Resp: 98394

Ion	Ratio	Lower	Upper
154	100		
153	39.3	12.1	72.1
155	12.2	0.0	43.1



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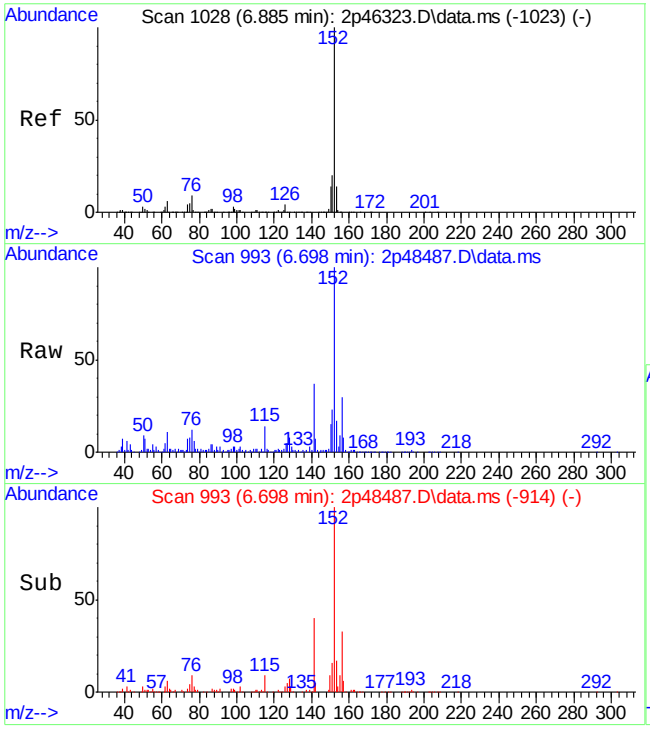
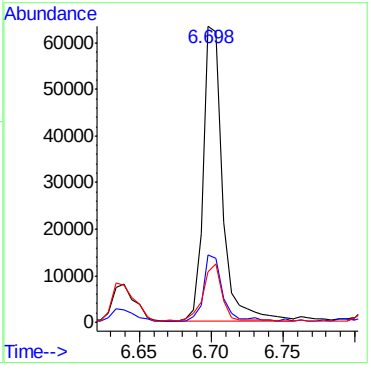
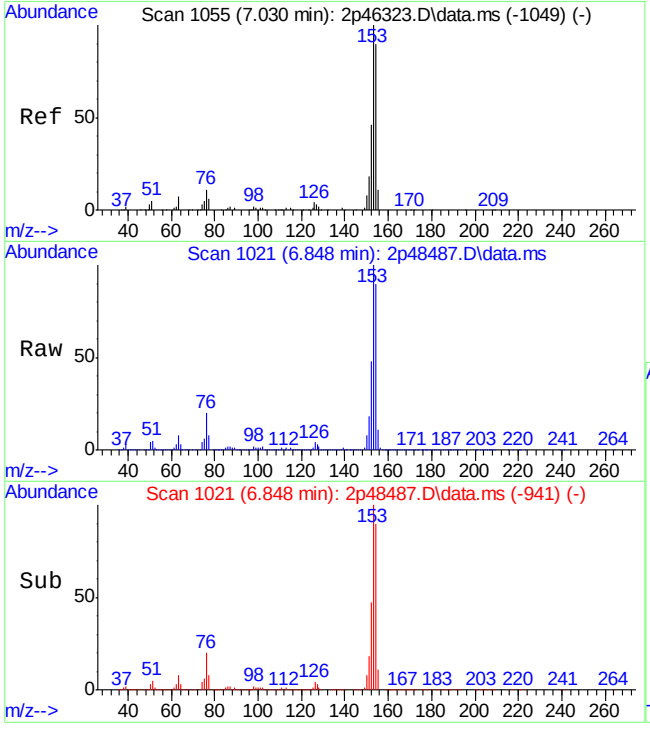


#56
Acenaphthylene
Concen: 5.02 ppm
RT: 6.698 min Scan# 993
Delta R.T. -0.080 min
Lab File: 2p48487.D
Acq: 12 May 2015 12:35 am

Tgt Ion:152 Resp: 60187

Ion	Ratio	Lower	Upper
152	100		
151	22.5	0.0	49.7
153	16.7	0.0	42.8

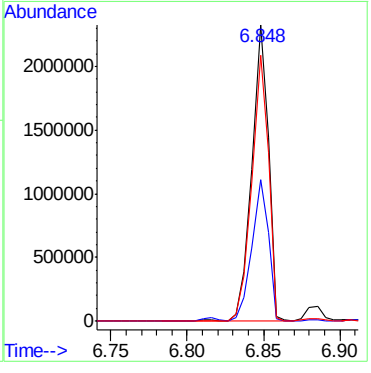




#59
Acenaphthene
Concen: 235.22 ppm
RT: 6.848 min Scan# 1021
Delta R.T. -0.075 min
Lab File: 2p48487.D
Acq: 12 May 2015 12:35 am

Tgt Ion:153 Resp: 1758486

Ion	Ratio	Lower	Upper
153	100		
152	47.6	16.9	76.9
154	90.0	58.3	118.3



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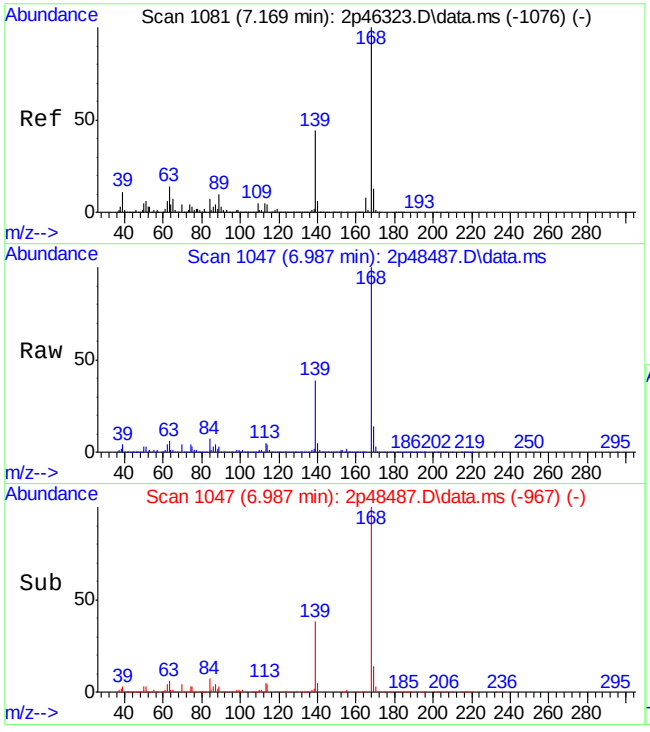
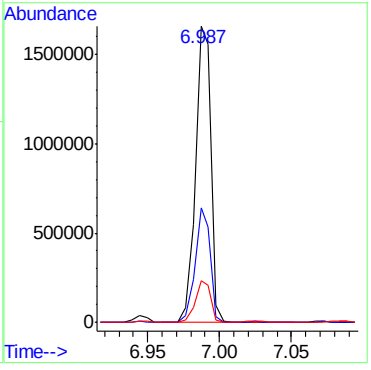
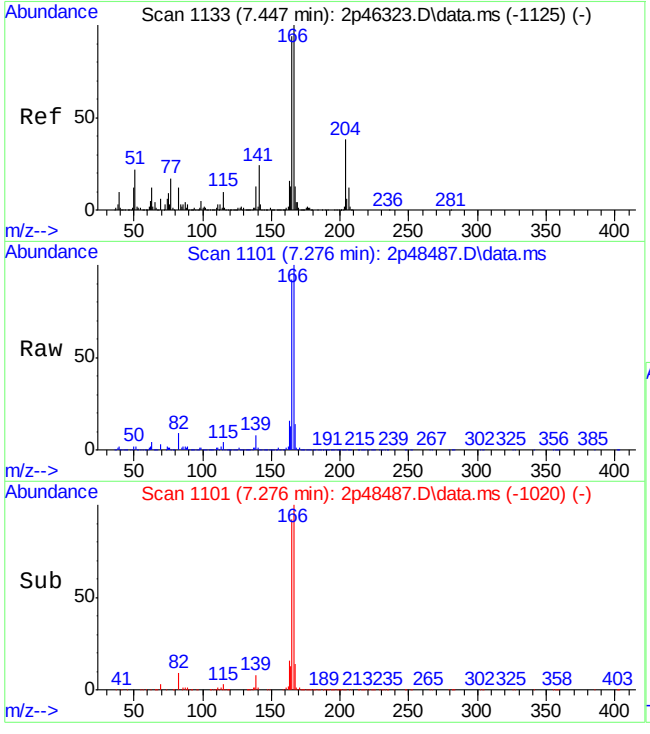


#62
Dibenzofuran
Concen: 127.26 ppm
RT: 6.987 min Scan# 1047
Delta R.T. -0.075 min
Lab File: 2p48487.D
Acq: 12 May 2015 12:35 am

Tgt Ion:168 Resp: 1273582

Ion	Ratio	Lower	Upper
168	100		
139	38.7	3.6	63.6
169	14.0	0.0	43.3

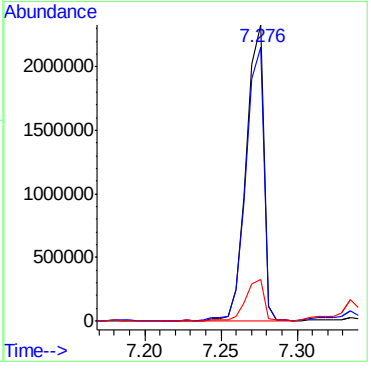




#66
Fluorene
Concen: 226.69 ppm
RT: 7.276 min Scan# 1101
Delta R.T. -0.069 min
Lab File: 2p48487.D
Acq: 12 May 2015 12:35 am

Tgt Ion:166 Resp: 1856935

Ion	Ratio	Lower	Upper
166	100		
165	92.3	65.0	125.0
167	13.9	0.0	43.9



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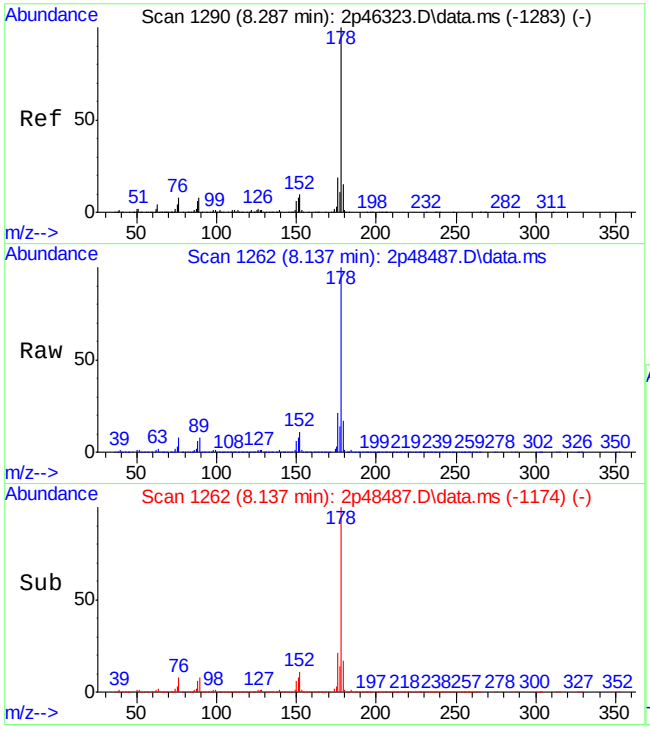
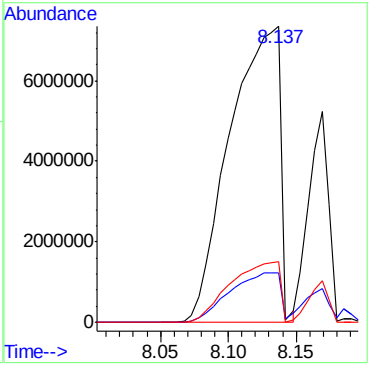
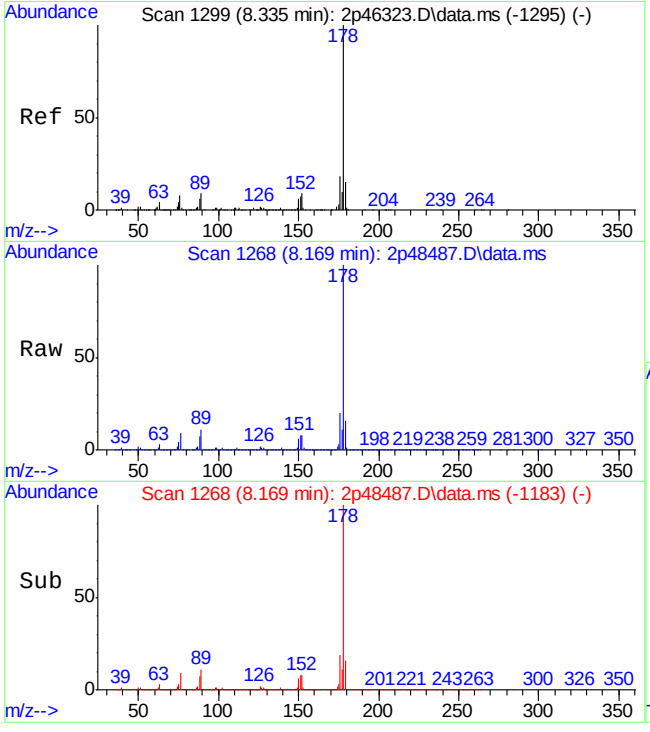


#77
Phenanthrene
Concen: 1519.32 ppm
RT: 8.137 min Scan# 1262
Delta R.T. -0.032 min
Lab File: 2p48487.D
Acq: 12 May 2015 12:35 am

Tgt Ion:178 Resp:18971937

Ion	Ratio	Lower	Upper
178	100		
179	15.4	0.0	45.4
176	20.7	0.0	45.5

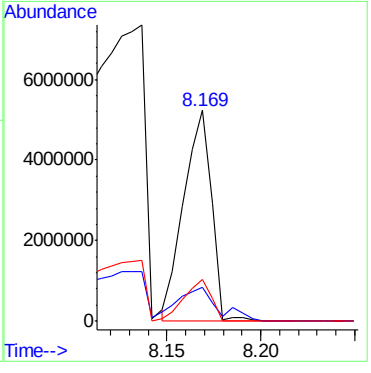




#78
Anthracene
Concen: 425.24 ppm
RT: 8.169 min Scan# 1268
Delta R.T. -0.048 min
Lab File: 2p48487.D
Acq: 12 May 2015 12:35 am

Tgt Ion:178 Resp: 5370175

Ion	Ratio	Lower	Upper
178	100		
179	14.4	0.0	45.2
176	19.6	0.0	48.1



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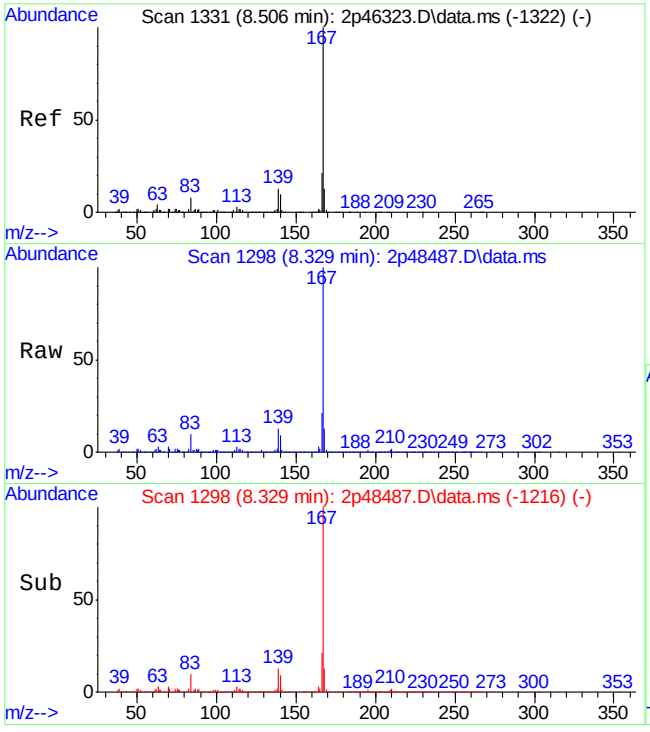
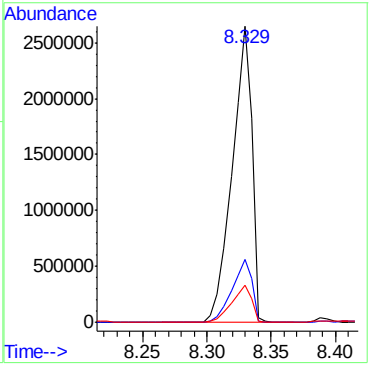
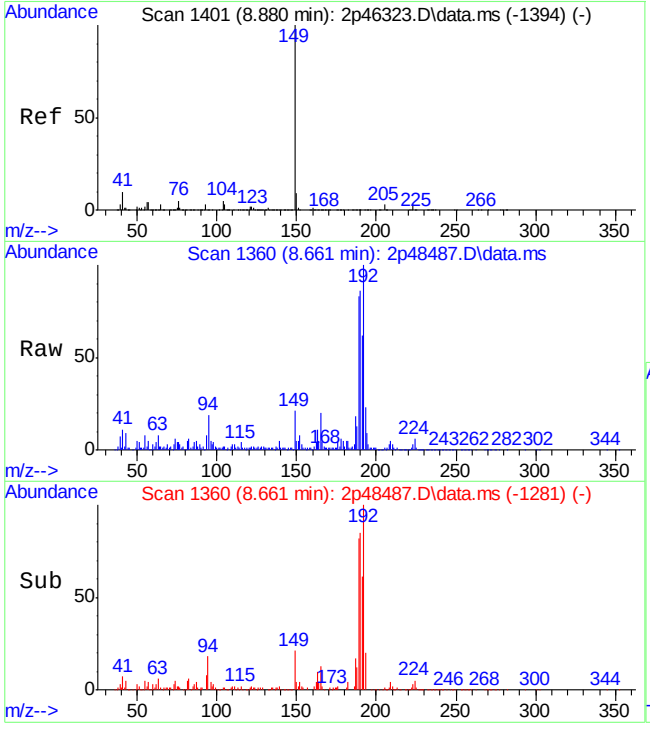


#79
Carbazole
Concen: 230.84 ppm
RT: 8.329 min Scan# 1298
Delta R.T. -0.064 min
Lab File: 2p48487.D
Acq: 12 May 2015 12:35 am

Tgt Ion:167 Resp: 2815848

Ion	Ratio	Lower	Upper
167	100		
166	21.2	0.0	50.6
139	12.6	0.0	41.7

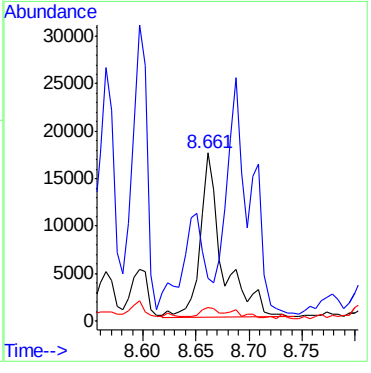




#80
Di-n-butylphthalate
Concen: 1.87 ppm
RT: 8.661 min Scan# 1360
Delta R.T. -0.080 min
Lab File: 2p48487.D
Acq: 12 May 2015 12:35 am

Tgt Ion:149 Resp: 25464

Ion	Ratio	Lower	Upper
149	100		
150	15.3	0.0	38.8
104	6.3	0.0	34.0



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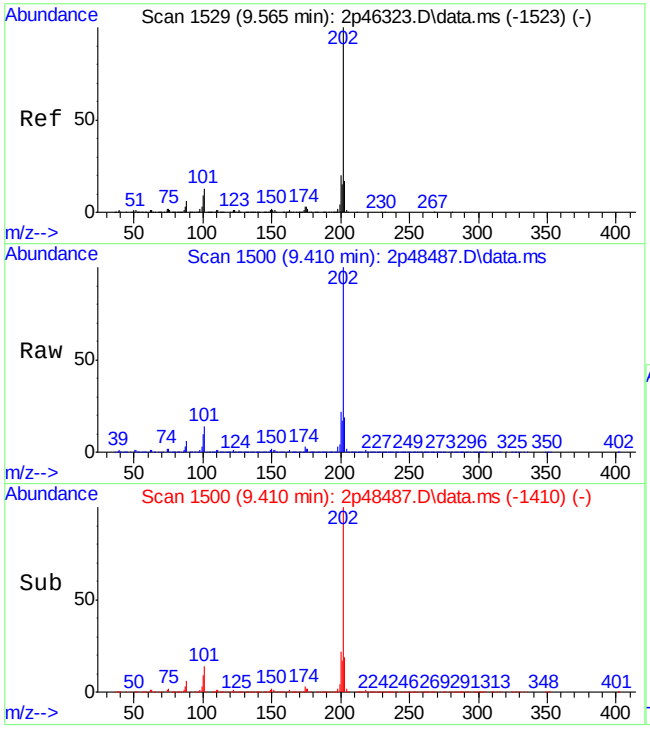
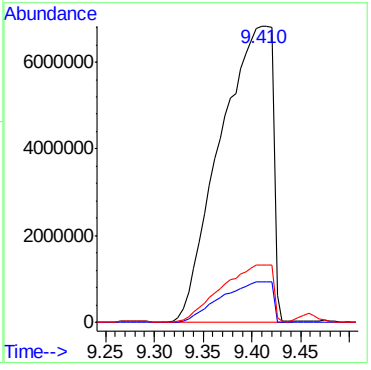
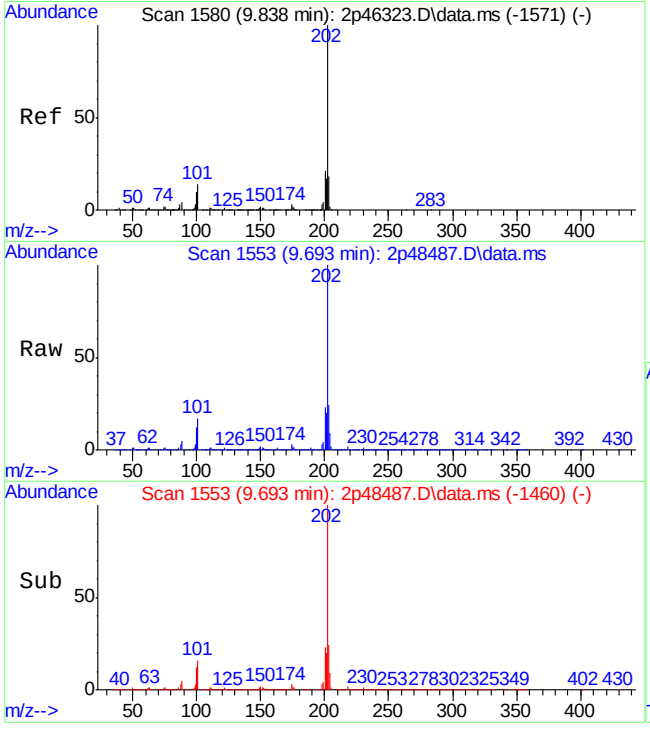


#81
Fluoranthene
Concen: 1706.31 ppm
RT: 9.410 min Scan# 1500
Delta R.T. -0.021 min
Lab File: 2p48487.D
Acq: 12 May 2015 12:35 am

Tgt Ion:202 Resp:25515706

Ion	Ratio	Lower	Upper
202	100		
101	13.5	0.0	43.1
203	18.9	0.0	47.4

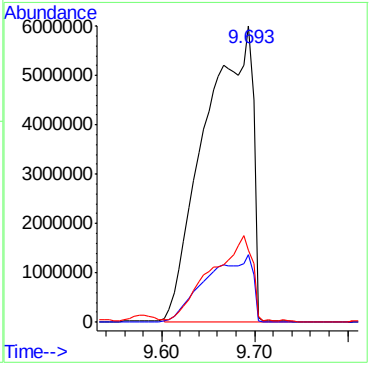




#84
Pyrene
Concen: 1349.50 ppm m
RT: 9.693 min Scan# 1553
Delta R.T. -0.005 min
Lab File: 2p48487.D
Acq: 12 May 2015 12:35 am

Tgt Ion:202 Resp:21310523

Ion	Ratio	Lower	Upper
202	100		
200	22.9	0.0	51.0
203	24.3	0.0	47.4



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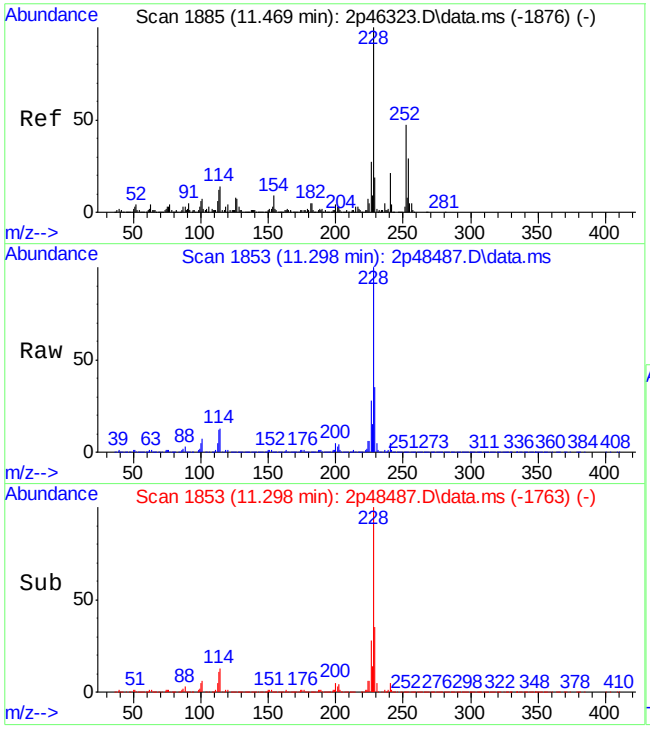
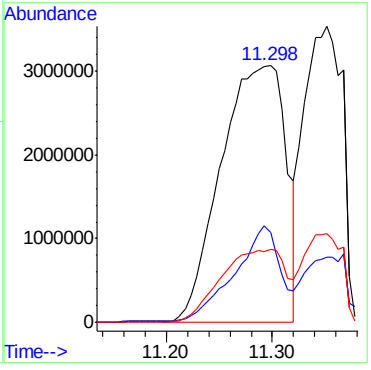
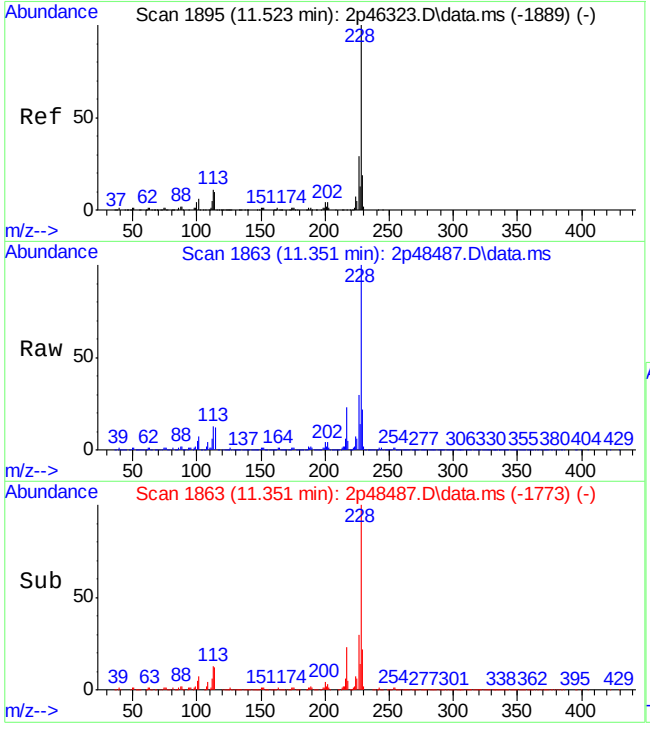


#88
Benzo[a]anthracene
Concen: 867.66 ppm
RT: 11.298 min Scan# 1853
Delta R.T. -0.021 min
Lab File: 2p48487.D
Acq: 12 May 2015 12:35 am

Tgt Ion:228 Resp:12961873

Ion	Ratio	Lower	Upper
228	100		
229	39.5	0.0	50.1
226	27.3	0.0	57.2

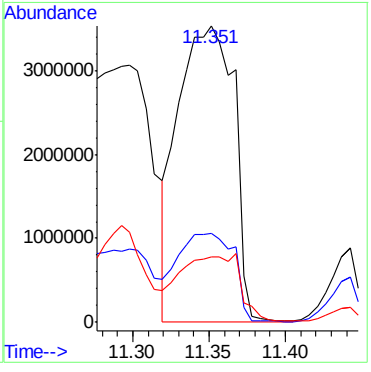




#90
Chrysene
Concen: 674.92 ppm
RT: 11.351 min Scan# 1863
Delta R.T. -0.021 min
Lab File: 2p48487.D
Acq: 12 May 2015 12:35 am

Tgt Ion:228 Resp: 9003858

Ion	Ratio	Lower	Upper
228	100		
226	29.9	0.0	58.8
229	21.8	0.0	49.1



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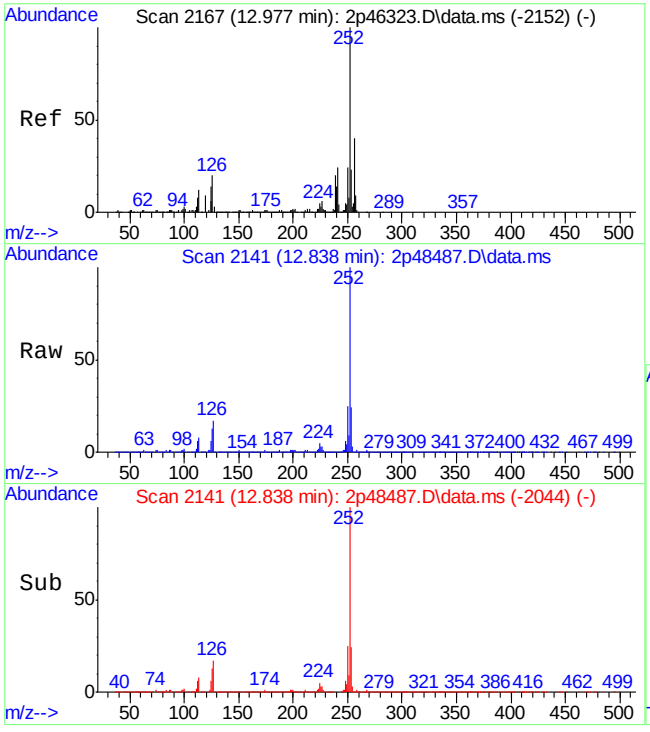
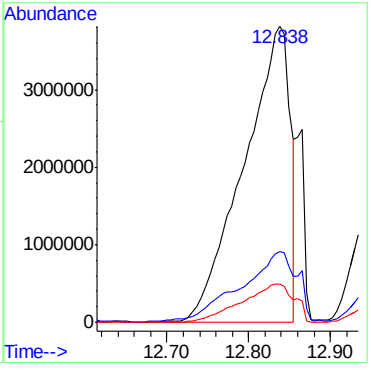
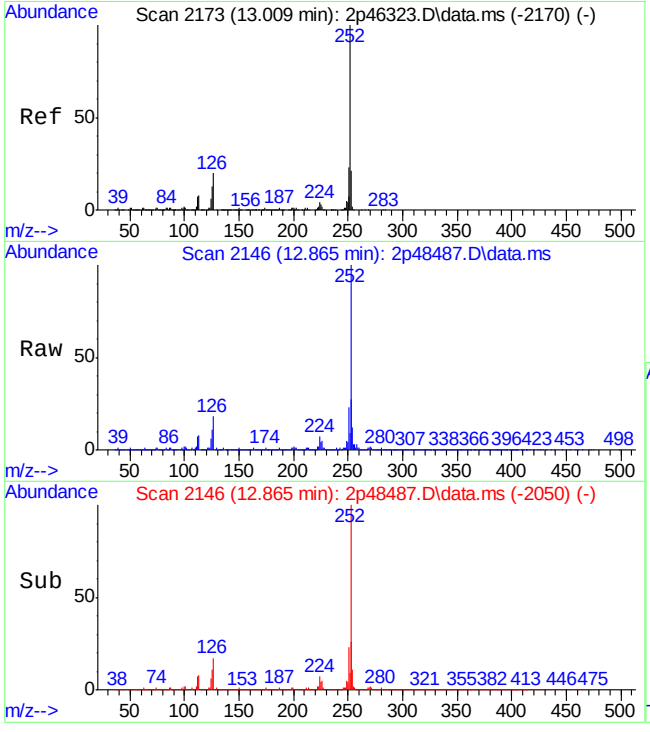


#94
Benzo[b]fluoranthene
Concen: 1356.61 ppm m
RT: 12.838 min Scan# 2141
Delta R.T. 0.016 min
Lab File: 2p48487.D
Acq: 12 May 2015 12:35 am

Tgt Ion:252 Resp:15021709

Ion	Ratio	Lower	Upper
252	100		
253	23.8	0.0	52.1
125	13.1	0.0	42.9

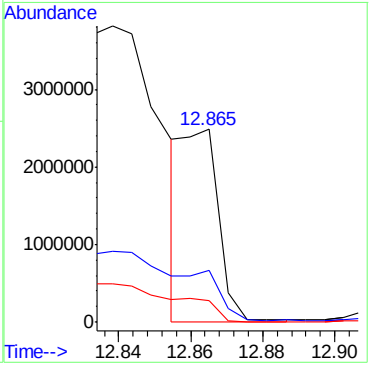




#95
Benzo[k]fluoranthene
Concen: 163.14 ppm m
RT: 12.865 min Scan# 2146
Delta R.T. 0.011 min
Lab File: 2p48487.D
Acq: 12 May 2015 12:35 am

Tgt Ion:252 Resp: 1710220

Ion	Ratio	Lower	Upper
252	100		
253	26.7	0.0	51.5
125	11.2	0.0	42.7



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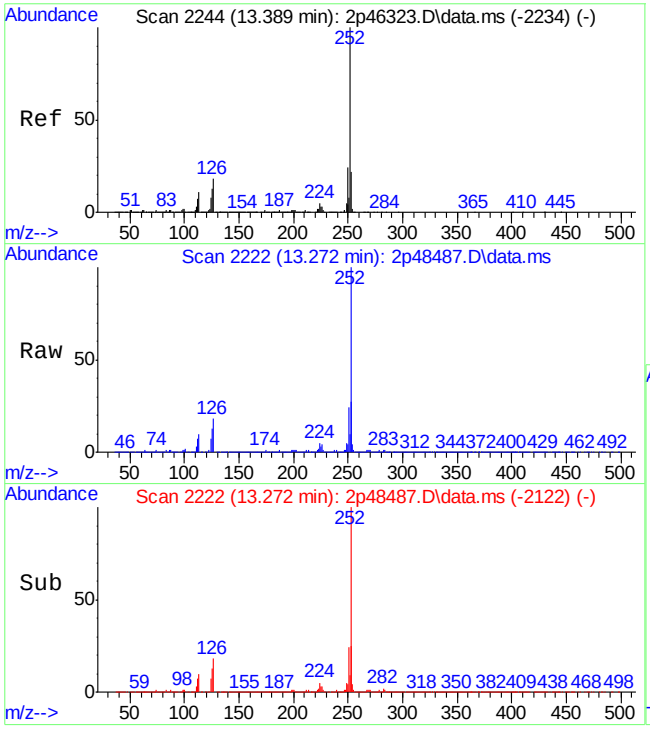
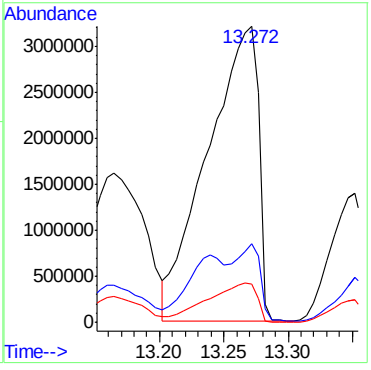
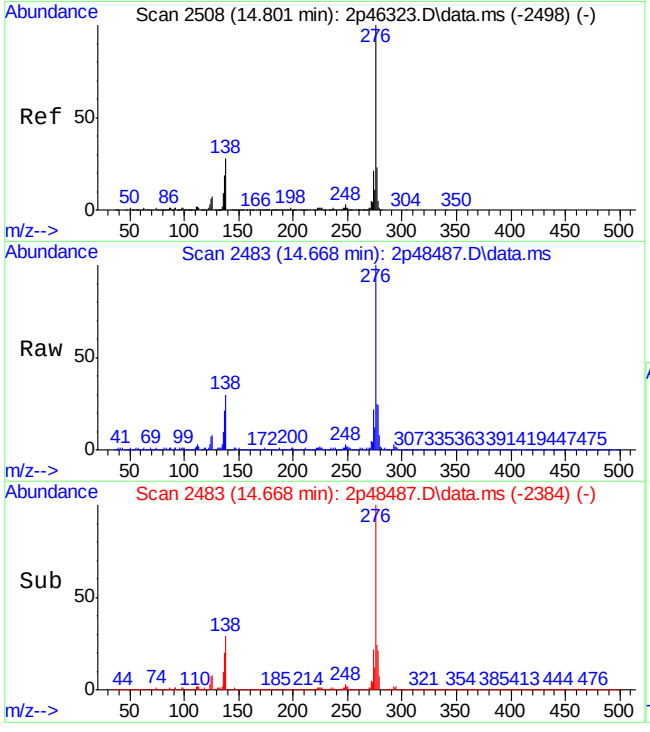


#96
Benzo[a]pyrene
Concen: 924.37 ppm
RT: 13.272 min Scan# 2222
Delta R.T. 0.032 min
Lab File: 2p48487.D
Acq: 12 May 2015 12:35 am

Tgt Ion:252 Resp: 8850237

Ion	Ratio	Lower	Upper
252	100		
253	26.1	0.0	51.8
125	12.8	0.0	45.1

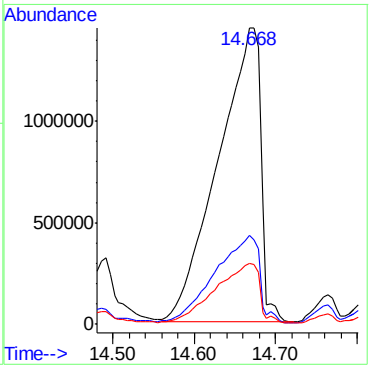




#97
Indeno[1,2,3-cd]pyrene
Concen: 481.10 ppm
RT: 14.668 min Scan# 2483
Delta R.T. 0.027 min
Lab File: 2p48487.D
Acq: 12 May 2015 12:35 am

Tgt Ion:276 Resp: 5279344

Ion	Ratio	Lower	Upper
276	100		
138	29.6	1.0	61.0
137	20.3	0.0	52.7



9.1.23

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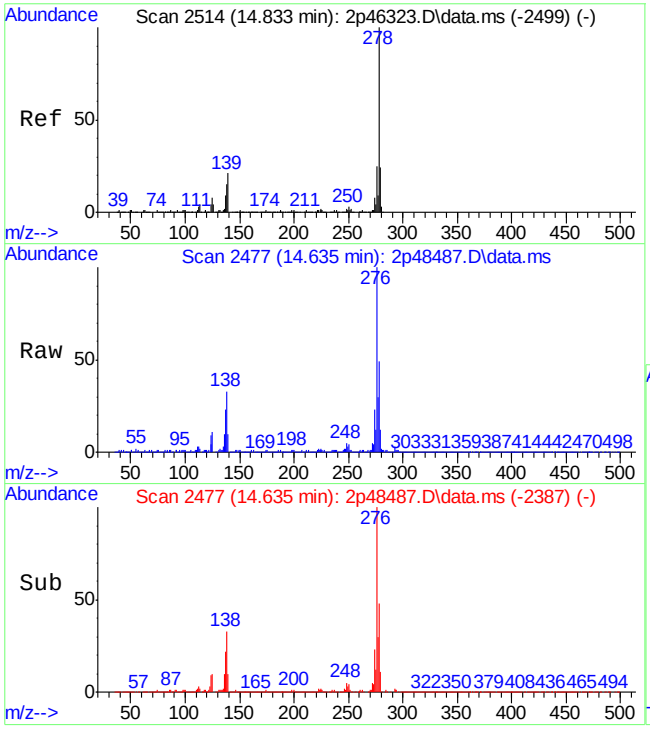
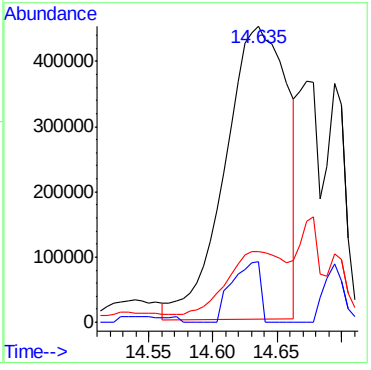
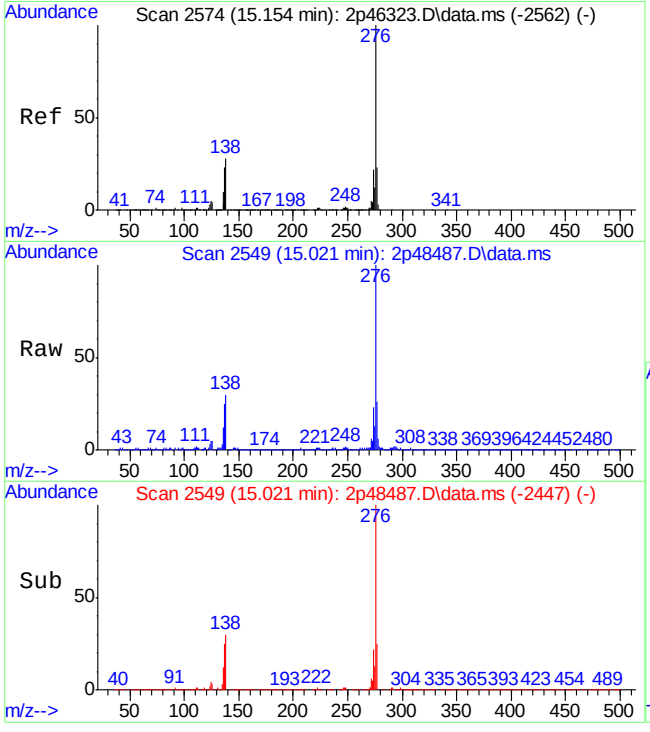


#99
Dibenz[a,h]anthracene
Concen: 169.00 ppm
RT: 14.635 min Scan# 2477
Delta R.T. -0.021 min
Lab File: 2p48487.D
Acq: 12 May 2015 12:35 am

Tgt Ion:278 Resp: 1505941

Ion	Ratio	Lower	Upper
278	100		
139	33.1	0.0	56.2
279	20.7	0.0	54.2

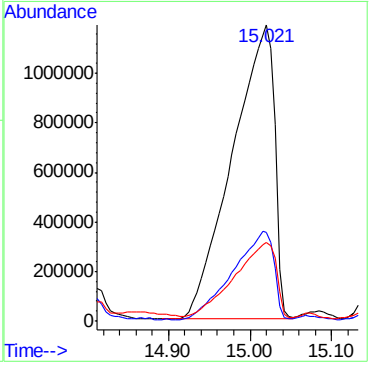




#101
Benzo[g,h,i]perylene
Concen: 474.85 ppm
RT: 15.021 min Scan# 2549
Delta R.T. 0.043 min
Lab File: 2p48487.D
Acq: 12 May 2015 12:35 am

Tgt Ion:276 Resp: 4301409

Ion	Ratio	Lower	Upper
276	100		
138	29.7	3.5	63.5
277	25.0	0.0	53.3



9.1.23

9

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48487.D
Acq On : 12 May 2015 12:35 am
Operator : sarad
Sample : jb94209-11
Misc : op83787,e2p2069,31.2
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: 2p48487.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.141	510	515	531	rBV	445783	648599	1.06%	0.109%
2	4.323	539	549	557	rBV	1194965	874054	1.43%	0.147%
3	5.393	736	749	755	rBV2	3479743	3518274	5.75%	0.593%
4	5.965	850	856	861	rBV	1599816	1044750	1.71%	0.176%
5	6.046	865	871	882	rVB	1058722	812114	1.33%	0.137%
6	6.270	900	913	920	rBV	1444907	1131881	1.85%	0.191%
7	6.816	1008	1015	1017	rBV	1896342	1417678	2.32%	0.239%
8	6.848	1017	1021	1025	rVB	8680172	6570755	10.74%	1.107%
9	6.987	1042	1047	1052	rBV	4169601	3281590	5.36%	0.553%
10	7.276	1089	1101	1105	rBV	7159774	6346334	10.37%	1.069%
11	7.335	1105	1112	1115	rBV2	875536	1142259	1.87%	0.192%
12	7.399	1121	1124	1129	rVB	1243281	861942	1.41%	0.145%
13	7.468	1129	1137	1141	rBV2	1370753	1792925	2.93%	0.302%
14	7.565	1147	1155	1165	rBV5	404812	713645	1.17%	0.120%
15	7.720	1180	1184	1187	rBV	876066	903414	1.48%	0.152%
16	7.843	1204	1207	1215	rBV4	400629	826806	1.35%	0.139%
17	7.918	1215	1221	1224	rBV	1154957	1430448	2.34%	0.241%
18	7.971	1227	1231	1244	rVB	2908364	2765301	4.52%	0.466%
19	8.132	1244	1261	1264	rBV2	17872751	48143282	78.66%	8.111%
20	8.169	1264	1268	1275	rVB	12403789	13166617	21.51%	2.218%
21	8.281	1285	1289	1292	rBV	965220	831198	1.36%	0.140%
22	8.329	1292	1298	1301	rBV	6175820	6596768	10.78%	1.111%
23	8.388	1305	1309	1316	rBV7	371577	632298	1.03%	0.107%
24	8.565	1333	1342	1345	rBV	3607962	3848567	6.29%	0.648%
25	8.597	1345	1348	1351	rVB	4316818	3992223	6.52%	0.673%
26	8.650	1355	1358	1360	rVV	1154765	1083724	1.77%	0.183%
27	8.688	1360	1365	1375	rVB	8028309	10620187	17.35%	1.789%
28	8.880	1393	1401	1405	rVB	3115415	2932366	4.79%	0.494%
29	8.950	1405	1414	1425	rVB2	2099437	3424753	5.60%	0.577%
30	9.041	1425	1431	1435	rVB	553034	634546	1.04%	0.107%
31	9.169	1448	1455	1458	rBV	719748	1071680	1.75%	0.181%
32	9.207	1458	1462	1471	rVB4	499979	987939	1.61%	0.166%
33	9.415	1478	1501	1505	rVB2	16715306	61205136	100.00%	10.312%
34	9.458	1505	1509	1518	rVB3	596504	952194	1.56%	0.160%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48487.D
Acq On : 12 May 2015 12:35 am
Operator : sarad
Sample : jb94209-11
Misc : op83787,e2p2069,31.2
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

35	9.533	1518	1523	1527	rBV	1495843	1516666	2.48%	0.256%
36	9.688	1534	1552	1556	rBV3	17090401	58037079	94.82%	9.778%
37	9.720	1556	1558	1567	rVB	2012376	1803953	2.95%	0.304%
38	9.800	1567	1573	1576	rBV	2604077	2834851	4.63%	0.478%
39	9.843	1576	1581	1587	rVB	3657983	4391270	7.17%	0.740%
40	9.902	1587	1592	1594	rBV	1012941	1248344	2.04%	0.210%
41	9.929	1594	1597	1601	rVB	1939720	2118454	3.46%	0.357%
42	9.977	1601	1606	1609	rVB	939632	1150598	1.88%	0.194%
43	10.030	1609	1616	1619	rBV4	1227245	2339648	3.82%	0.394%
44	10.073	1619	1624	1628	rVB	4774754	6049958	9.88%	1.019%
45	10.159	1634	1640	1643	rVB	3340197	4320161	7.06%	0.728%
46	10.207	1643	1649	1655	rBV3	3263077	6216638	10.16%	1.047%
47	10.308	1664	1668	1672	rVB	1172912	1304908	2.13%	0.220%
48	10.351	1672	1676	1680	rBV	1209477	1369524	2.24%	0.231%
49	10.619	1721	1726	1734	rVB4	571324	1364590	2.23%	0.230%
50	10.710	1734	1743	1746	rBV5	482375	927646	1.52%	0.156%
51	10.768	1746	1754	1770	rVB	1841770	3973197	6.49%	0.669%
52	10.897	1770	1778	1780	rBV	2118502	3513849	5.74%	0.592%
53	10.929	1780	1784	1788	rVV	2907877	3854026	6.30%	0.649%
54	10.966	1788	1791	1794	rVV	2284141	2117419	3.46%	0.357%
55	11.004	1794	1798	1803	rVB2	2550966	3018942	4.93%	0.509%
56	11.116	1810	1819	1829	rVB2	2299809	5181871	8.47%	0.873%
57	11.293	1836	1852	1857	rBV2	9232232	35967833	58.77%	6.060%
58	11.362	1857	1865	1873	rVB3	13725115	30490571	49.82%	5.137%
59	11.442	1873	1880	1887	rBV	3747684	4935173	8.06%	0.832%
60	11.501	1887	1891	1895	rBV3	585858	771595	1.26%	0.130%
61	11.587	1898	1907	1913	rVB2	2023846	3691641	6.03%	0.622%
62	11.651	1913	1919	1923	rBV	1944094	2516385	4.11%	0.424%
63	11.790	1940	1945	1949	rBV	575991	720106	1.18%	0.121%
64	11.854	1949	1957	1962	rBV2	2955413	4971946	8.12%	0.838%
65	11.897	1962	1965	1970	rVB2	1746878	2150253	3.51%	0.362%
66	11.988	1976	1982	1985	rBV2	1308729	1850630	3.02%	0.312%
67	12.025	1985	1989	1992	rBV2	1142518	1453817	2.38%	0.245%
68	12.057	1992	1995	2005	rVB6	1074128	2101476	3.43%	0.354%
69	12.148	2005	2012	2020	rVB3	816492	1627238	2.66%	0.274%
70	12.362	2042	2052	2058	rVB6	530149	1572815	2.57%	0.265%
71	12.464	2067	2071	2083	rVB6	293913	698052	1.14%	0.118%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48487.D
Acq On : 12 May 2015 12:35 am
Operator : sarad
Sample : jb94209-11
Misc : op83787,e2p2069,31.2
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

72	12.571	2083	2091	2094	rBV5	570661	1285311	2.10%	0.217%
73	12.614	2094	2099	2107	rVB6	525087	1211590	1.98%	0.204%
74	12.838	2118	2141	2149	rBV2	10326693	48342889	78.99%	8.145%
75	12.935	2153	2159	2162	rVB	3482183	4420341	7.22%	0.745%
76	13.047	2171	2180	2182	rBV2	780959	1764539	2.88%	0.297%
77	13.074	2182	2185	2190	rVV3	662306	993110	1.62%	0.167%
78	13.165	2190	2202	2209	rVV	4490290	14063200	22.98%	2.369%
79	13.272	2209	2222	2226	rVB	8779684	25068686	40.96%	4.224%
80	13.352	2230	2237	2246	rVV2	4547344	7687631	12.56%	1.295%
81	13.502	2260	2265	2269	rBV	797483	1366740	2.23%	0.230%
82	13.550	2269	2274	2279	rVB3	827561	1428668	2.33%	0.241%
83	13.742	2303	2310	2314	rBV4	389573	768349	1.26%	0.129%
84	13.849	2321	2330	2338	rVV4	989574	2213565	3.62%	0.373%
85	13.978	2347	2354	2360	rVB2	442143	820300	1.34%	0.138%
86	14.122	2369	2381	2387	rBV5	381307	1037892	1.70%	0.175%
87	14.245	2394	2404	2409	rVV6	655769	1746478	2.85%	0.294%
88	14.309	2409	2416	2421	rVV3	867264	2001932	3.27%	0.337%
89	14.357	2421	2425	2429	rVV2	543914	1032278	1.69%	0.174%
90	14.422	2429	2437	2438	rVV4	593057	1406358	2.30%	0.237%
91	14.464	2438	2445	2461	rVV2	1378087	5417530	8.85%	0.913%
92	14.673	2461	2484	2493	rVV2	5432097	22457368	36.69%	3.784%
93	14.764	2493	2501	2504	rVV	1734608	3220557	5.26%	0.543%
94	14.812	2504	2510	2525	rVV2	2165241	5530899	9.04%	0.932%
95	15.021	2526	2549	2566	rVV	3814550	17531550	28.64%	2.954%
96	15.176	2566	2578	2590	rVV3	1699556	5581046	9.12%	0.940%
97	15.272	2590	2596	2603	rVV3	293051	652045	1.07%	0.110%
98	15.432	2613	2626	2644	rVV8	314728	1581652	2.58%	0.266%
99	15.572	2646	2652	2664	rVV5	310480	952243	1.56%	0.160%
100	15.882	2702	2710	2730	rVB7	345347	1557585	2.54%	0.262%

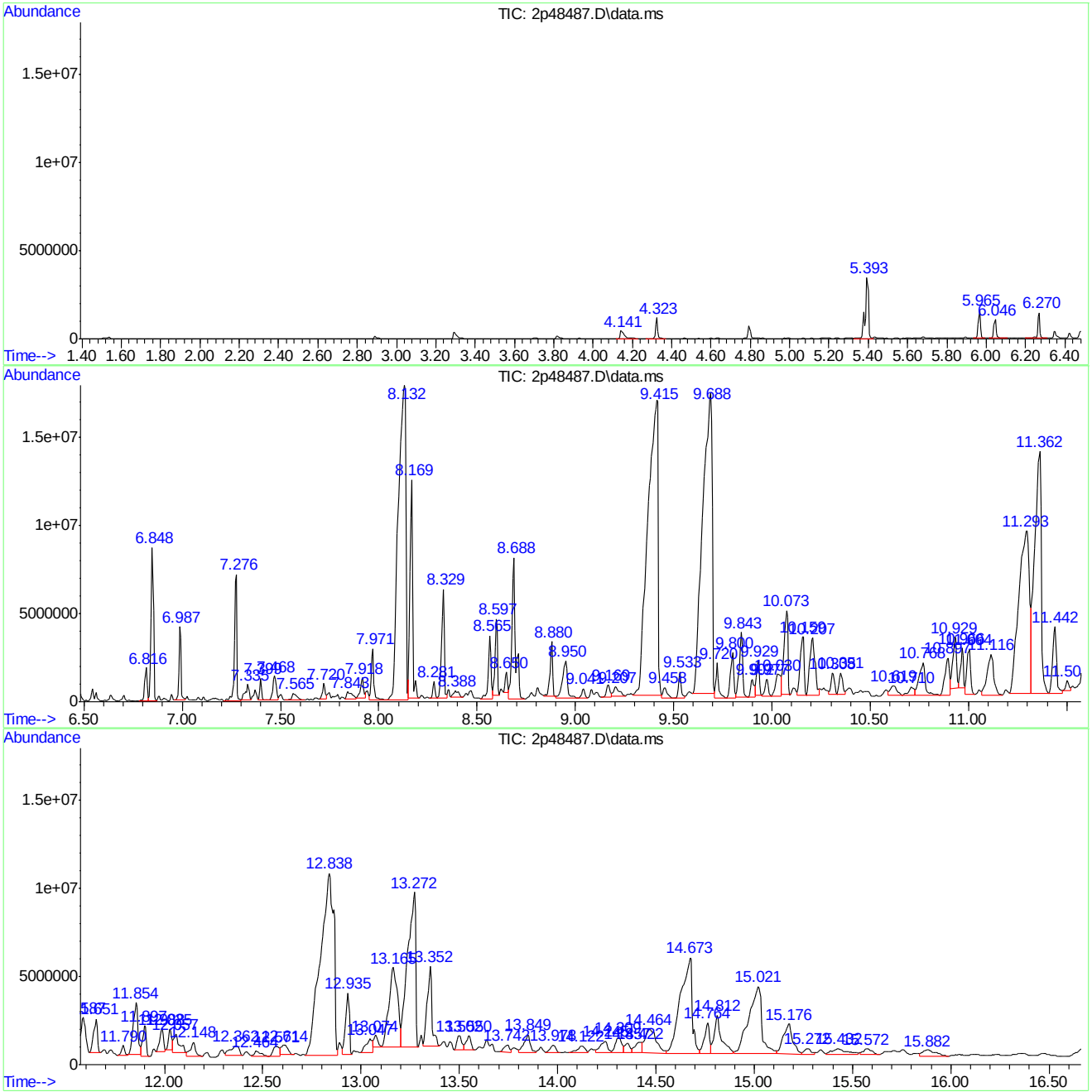
Sum of corrected areas: 593521702

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48487.D
Acq On : 12 May 2015 12:35 am
Operator : sarad
Sample : jb94209-11
Misc : op83787,e2p2069,31.2
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48487.D
Acq On : 12 May 2015 12:35 am
Operator : sarad
Sample : jb94209-11
Misc : op83787,e2p2069,31.2
ALS Vial : 21 Sample Multiplier: 1

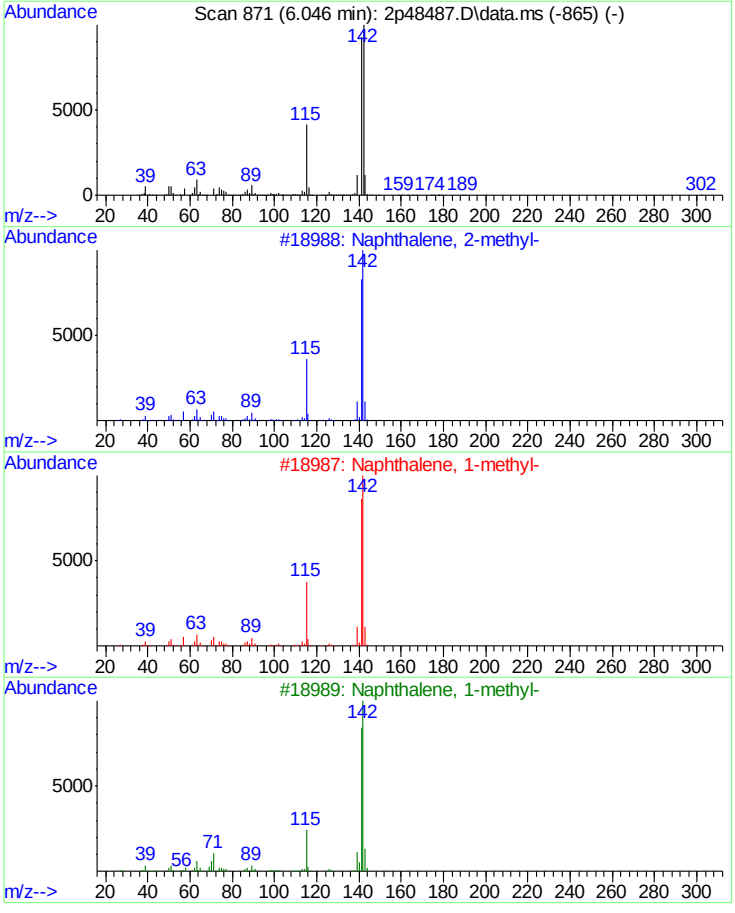
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

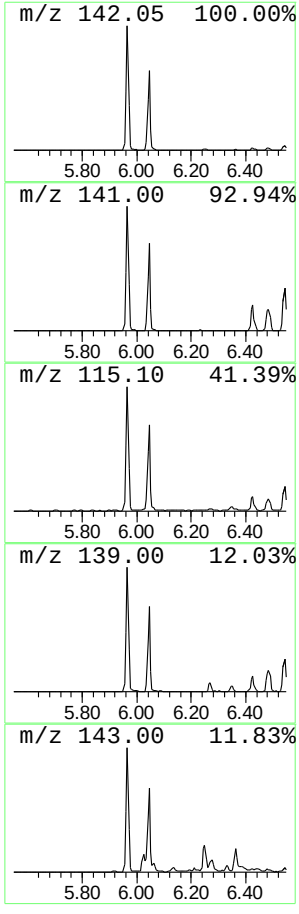
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 1 Naphthalene, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.046	9.23 ppm	812114	Naphthalene-d8a	5.377

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	95
2	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	95
3	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	94
4	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	94
5	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	93





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48487.D
Acq On : 12 May 2015 12:35 am
Operator : sarad
Sample : jb94209-11
Misc : op83787,e2p2069,31.2
ALS Vial : 21 Sample Multiplier: 1

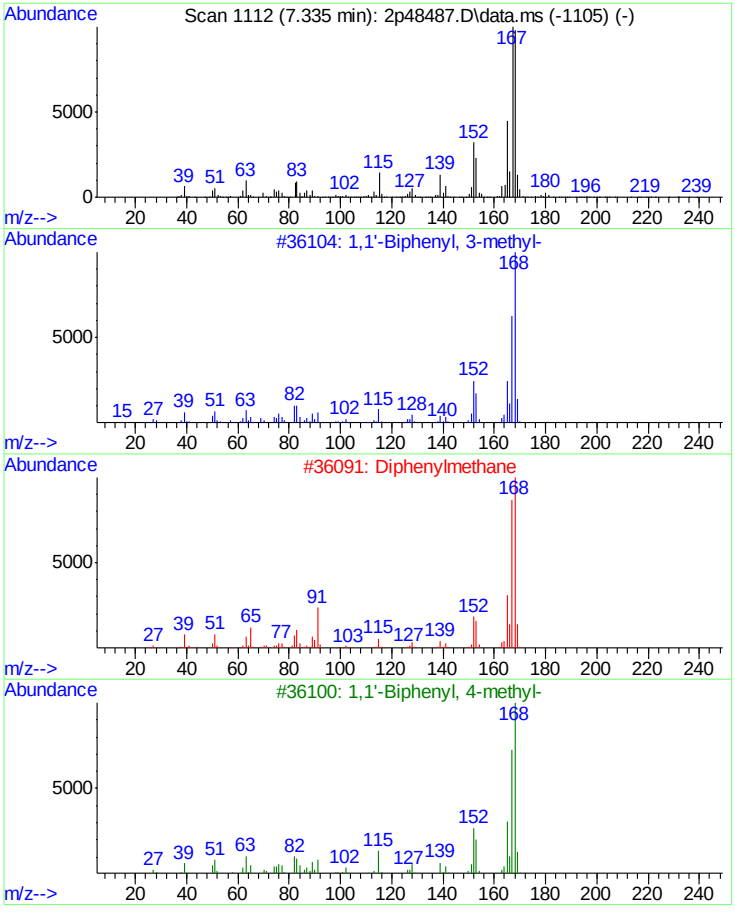
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

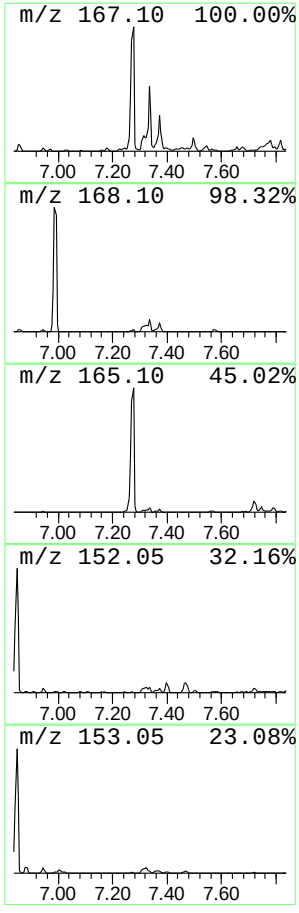
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 2 1,1'-Biphenyl, -methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.335	32.23 ppm	1142260	Acenaphthene-d10a	6.816

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	91
2	Diphenylmethane	168	C13H12	000101-81-5	90
3	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	90
4	Diphenylmethane	168	C13H12	000101-81-5	89
5	Nordiphenamid	225	C15H15NO	000954-21-2	86





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48487.D
Acq On : 12 May 2015 12:35 am
Operator : sarad
Sample : jb94209-11
Misc : op83787,e2p2069,31.2
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

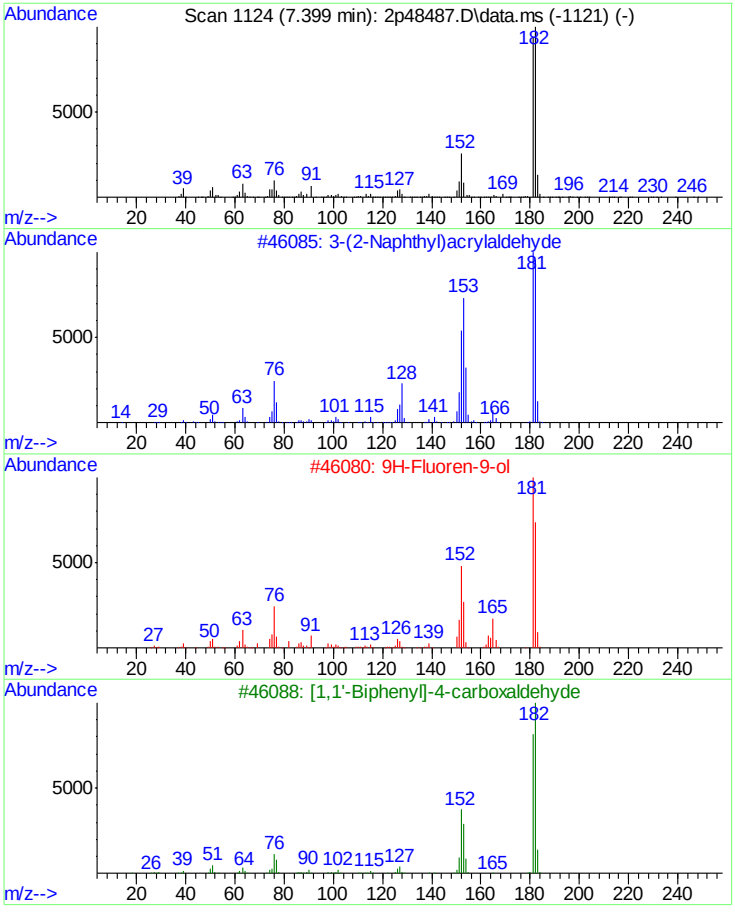
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

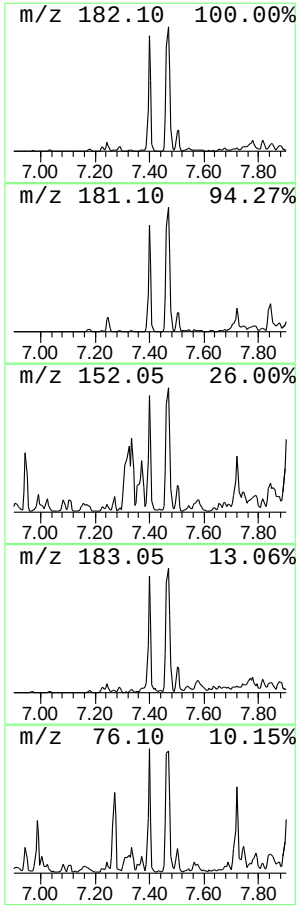
****

Peak Number 3 3-(2-Naphthyl)acrylaldehyde Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.399	24.32 ppm	861942	Acenaphthene-d10a	6.816

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-(2-Naphthyl)acrylaldehyde	182	C13H10O	020884-05-3	91
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	90
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	87
4	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	83
5	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48487.D
Acq On    : 12 May 2015  12:35 am
Operator  : sarad
Sample    : jb94209-11
Misc      : op83787,e2p2069,31.2
ALS Vial  : 21   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```
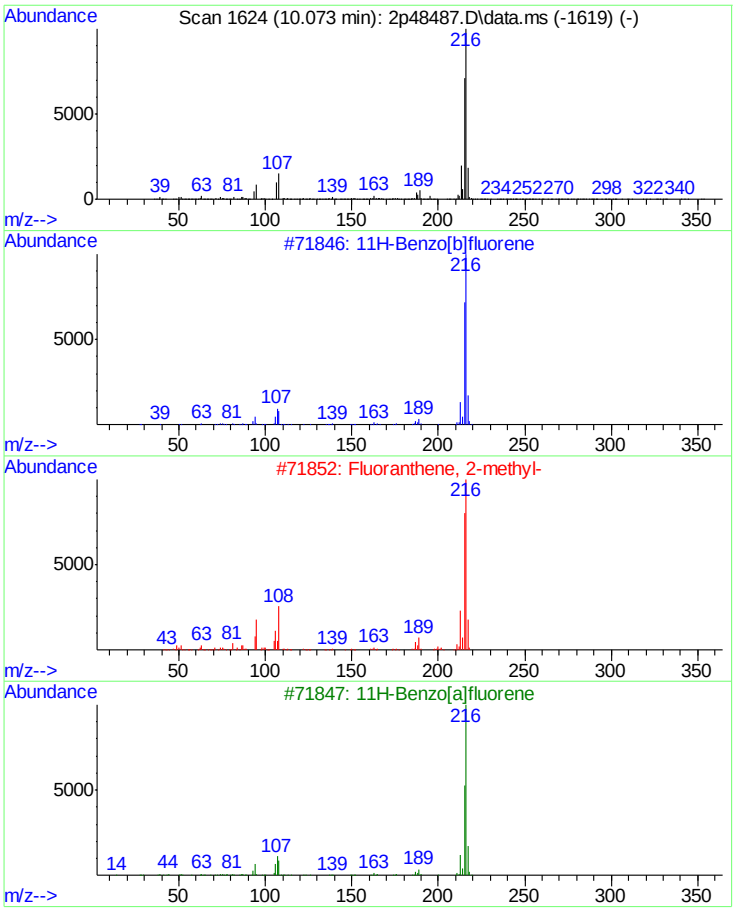
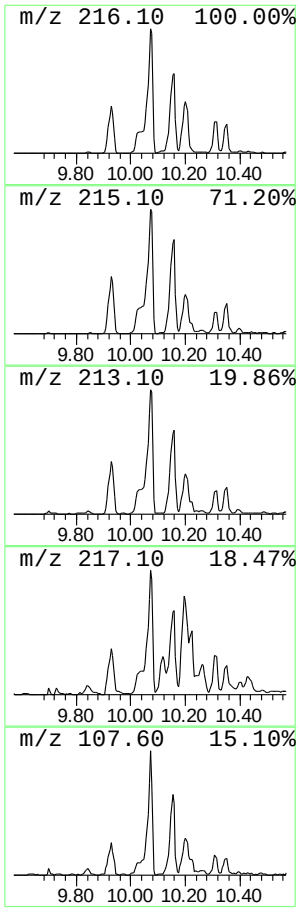

****

Peak Number 4 11H-Benzo[b]fluorene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.073	6.73 ppm	6049960	Chrysene-d12	11.309

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	97
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	94
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	90
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48487.D
Acq On : 12 May 2015 12:35 am
Operator : sarad
Sample : jb94209-11
Misc : op83787,e2p2069,31.2
ALS Vial : 21 Sample Multiplier: 1

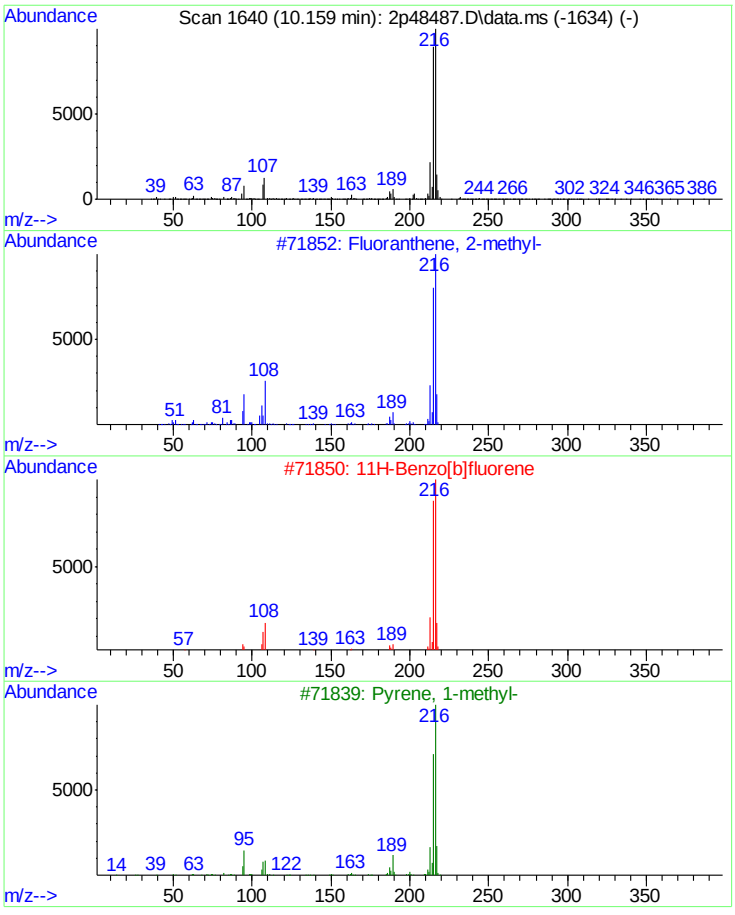
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

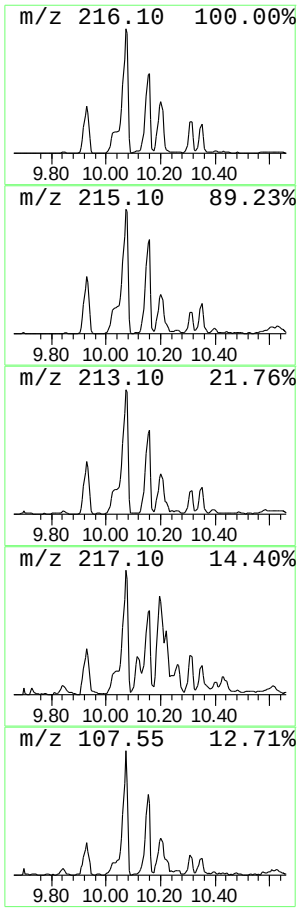
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 5 unknown PAH substance Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.159	4.80 ppm	4320160	Chrysene-d12	11.309

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	94
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48487.D
Acq On    : 12 May 2015  12:35 am
Operator  : sarad
Sample    : jb94209-11
Misc      : op83787,e2p2069,31.2
ALS Vial  : 21   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

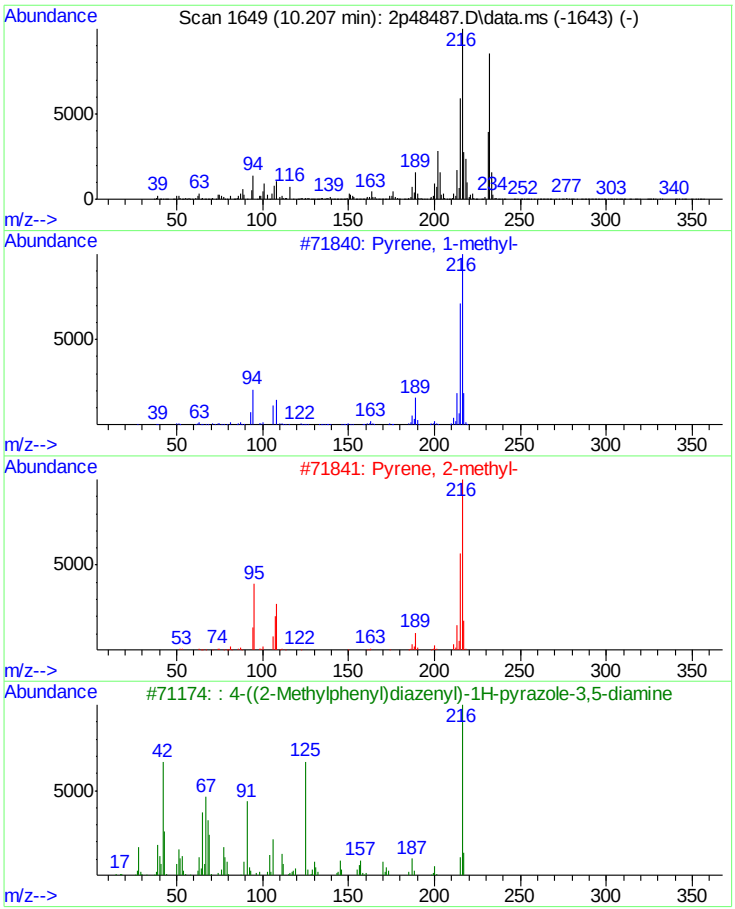
TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

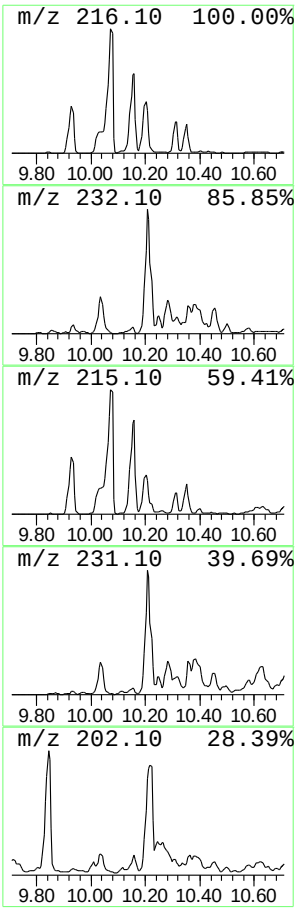
****

Peak Number 6 Pyrene methyl Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.207	6.91 ppm	6216640	Chrysene-d12	11.309

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	55
3	: 4-((2-Methylphenyl)diazenyl)-1...	216	C10H12N6	1000332-58-9	53
4	1-Pyrenemethanol	232	C17H12O	024463-15-8	46
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	42





Library Search Compound Report

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Operator  : sarad
Sample    : jb94209-11
Misc      : op83787,e2p2069,31.2
ALS Vial  : 21   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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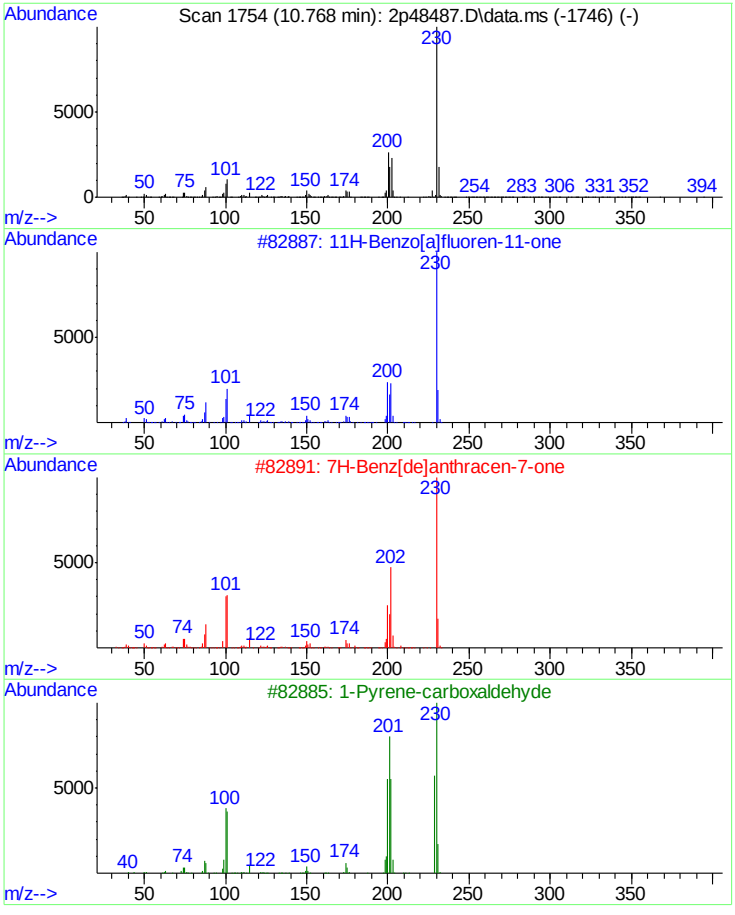
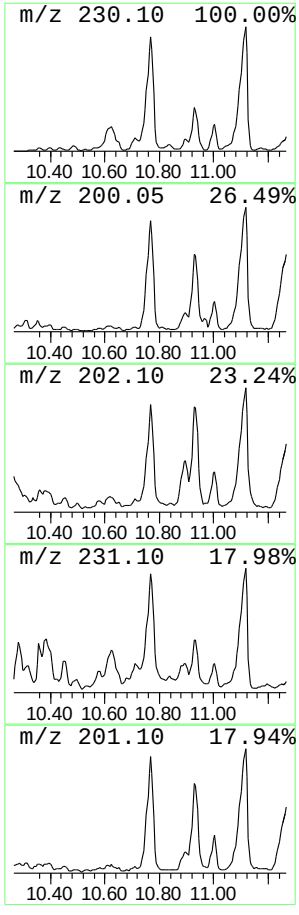
Peak Number 7 11H-Benzo[a]fluoren--one Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.768	4.42 ppm	3973200	Chrysene-d12	11.309

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	97
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	87
3	1-Pyrene-carboxaldehyde	230	C17H10O	003029-19-4	78
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	74
5	4-Pyrenecarbaldehyde	230	C17H10O	022245-51-8	72





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Sample    : jb94209-11
Misc      : op83787,e2p2069,31.2
ALS Vial  : 21   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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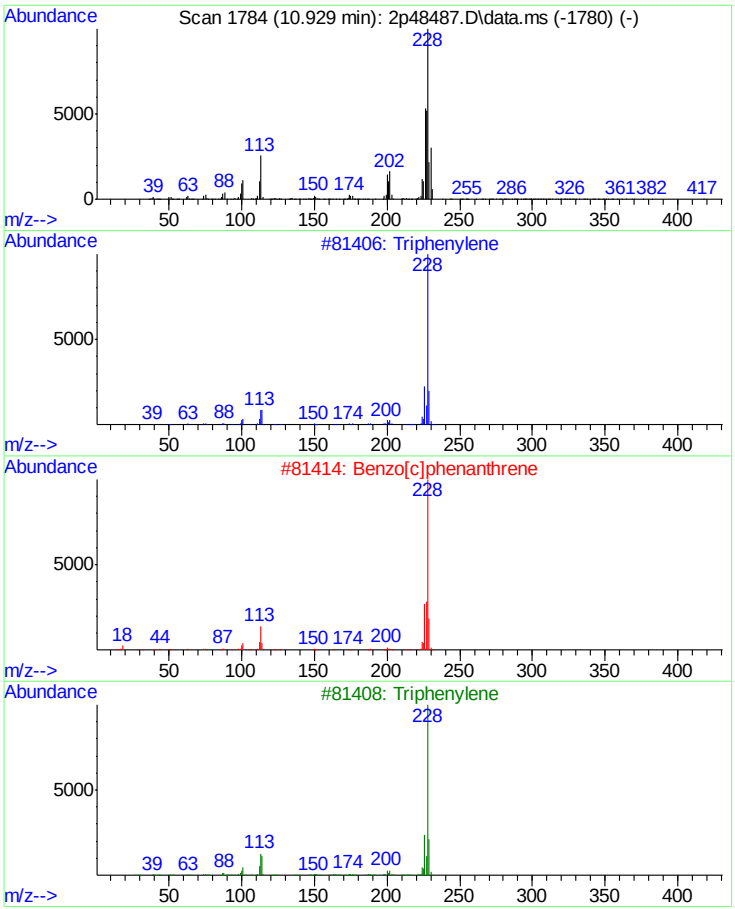
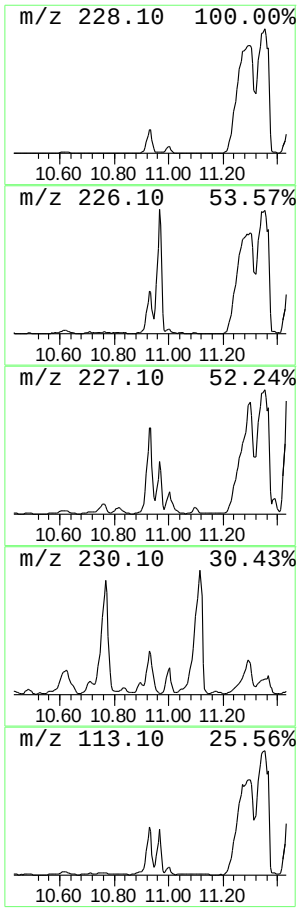
****

Peak Number 8 unknown Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.929	4.29 ppm	3854030	Chrysene-d12	11.309

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triphenylene	228	C18H12	000217-59-4	60
2	Benzo[c]phenanthrene	228	C18H12	000195-19-7	58
3	Triphenylene	228	C18H12	000217-59-4	52
4	Chrysene	228	C18H12	000218-01-9	50
5	Benz[a]anthracene	228	C18H12	000056-55-3	50





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ALS Vial  : 21   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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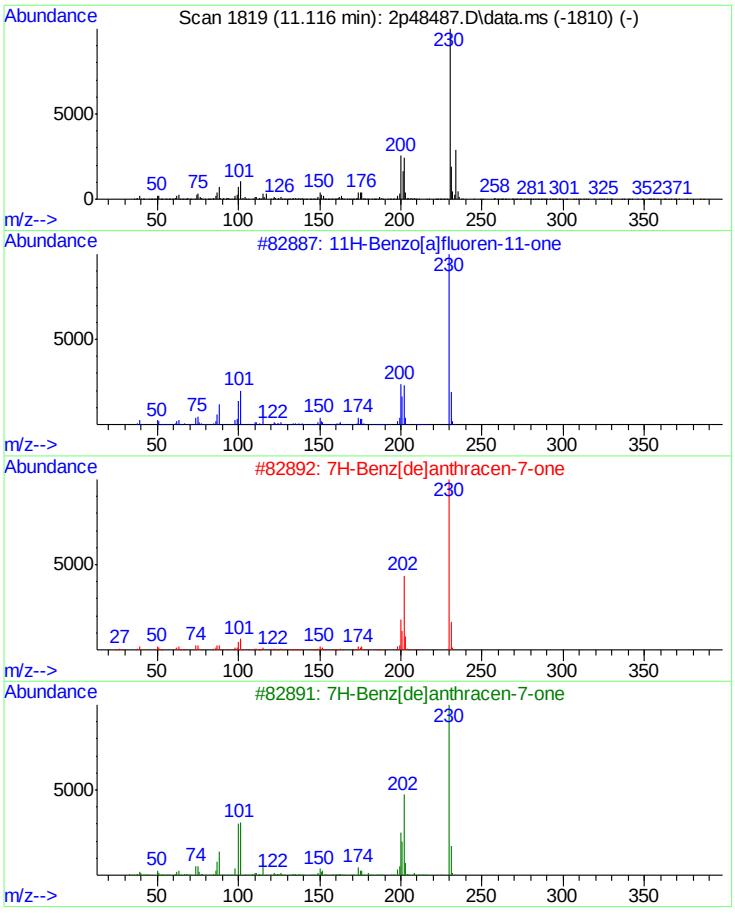
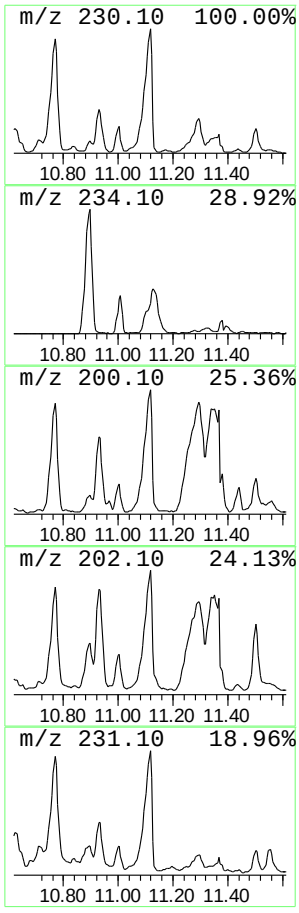
Peak Number 9 11H-Benzo[a]fluoren-one Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.116	5.76 ppm	5181870	Chrysene-d12	11.309

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	97
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	86
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	68
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	64
5	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	64





Library Search Compound Report

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ALS Vial  : 21   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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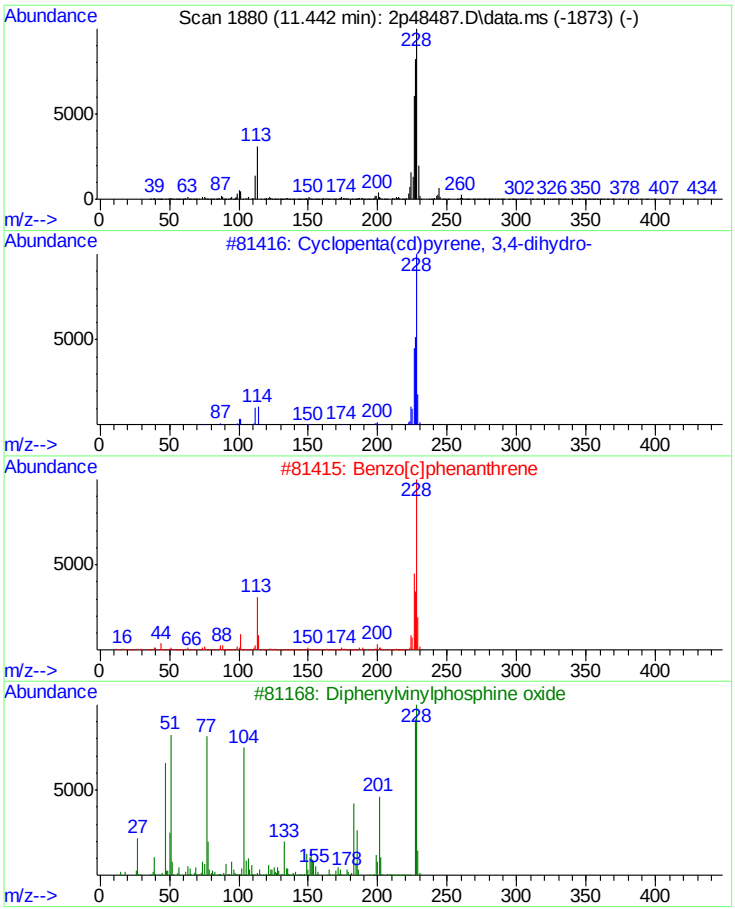
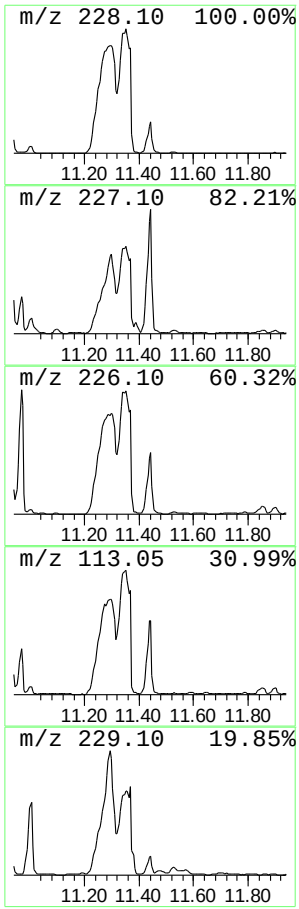
Peak Number 10 unknown Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.442	5.49 ppm	4935170	Chrysene-d12a	11.309

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	90
2	Benzo[c]phenanthrene	228	C18H12	000195-19-7	55
3	Diphenylvinylphosphine oxide	228	C14H13OP	002096-78-8	50
4	Isothiazol-5-amine, 4-bromo-3-ch...	226	C4H4BrClN2S	1000272-59-9	43
5	Triphenylene	228	C18H12	000217-59-4	41





Library Search Compound Report

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Sample    : jb94209-11
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ALS Vial  : 21   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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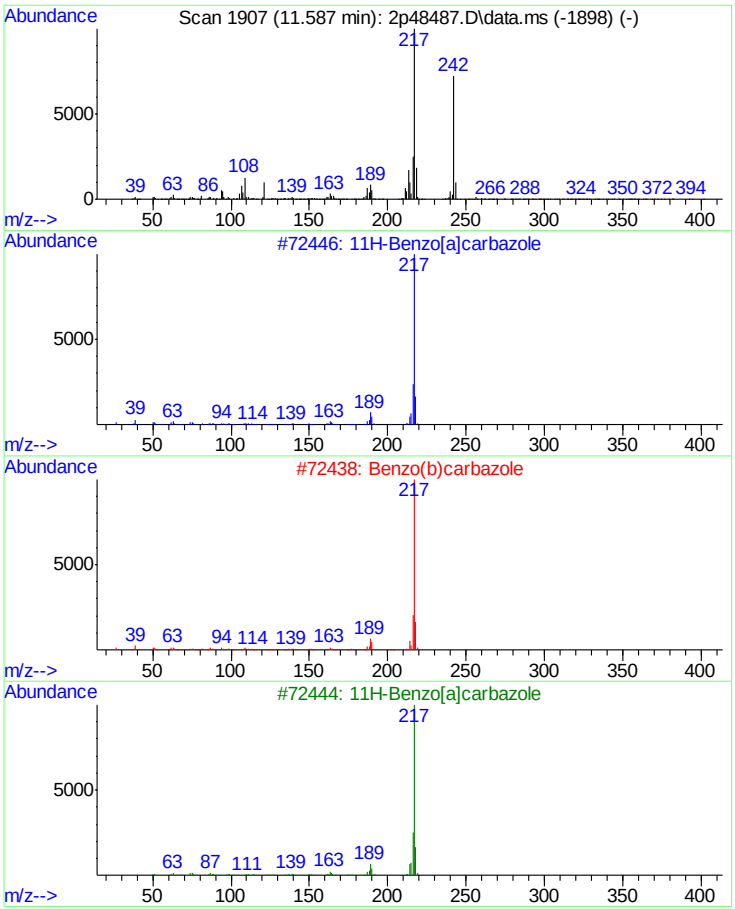
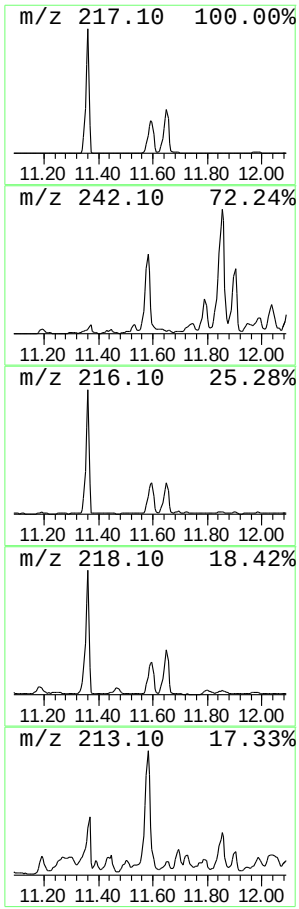
Peak Number 11 11H-Benzo[a]carbazole Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.587	4.11 ppm	3691640	Chrysene-d12a	11.309

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	91
2	Benzo(b)carbazole	217	C16H11N	000243-28-7	91
3	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	83
4	Benzo(c)carbazole	217	C16H11N	034777-33-8	64
5	11H-Indeno(1,2-b)quinoline	217	C16H11N	000243-51-6	50





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Misc : op83787,e2p2069,31.2
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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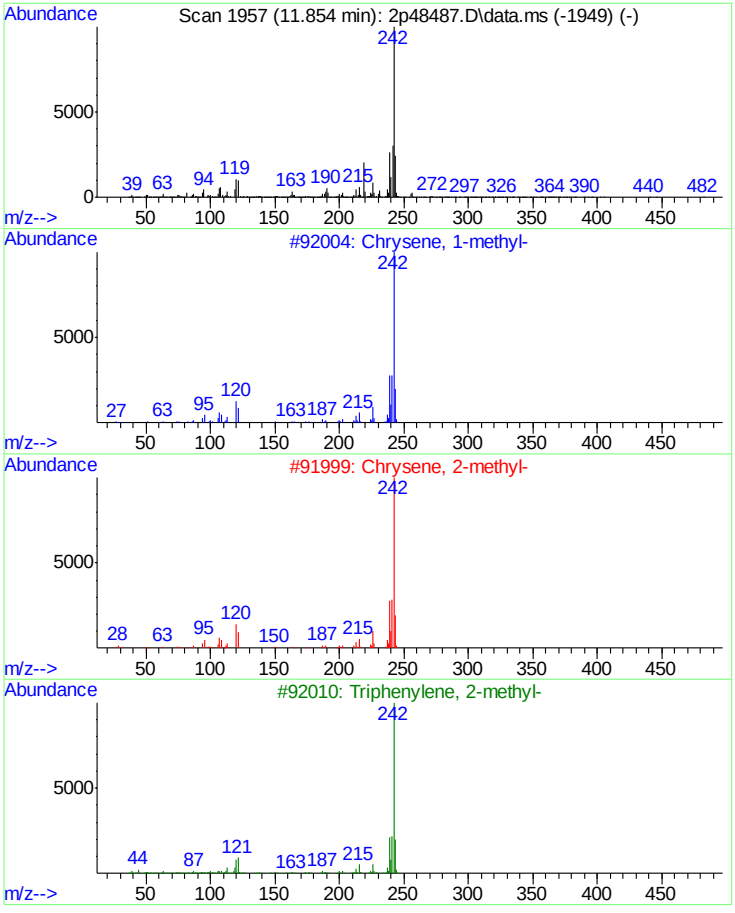
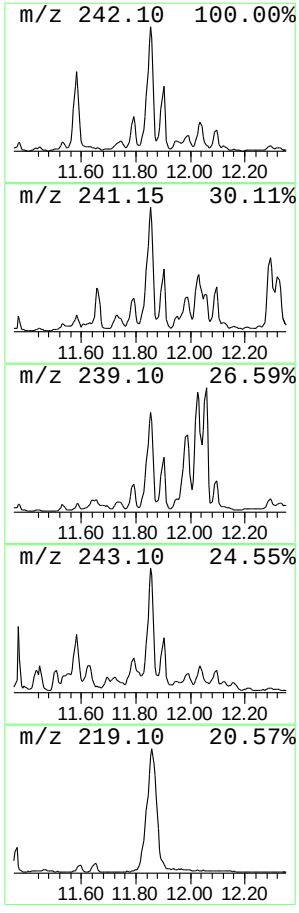
Peak Number 12 Chrysene methyl Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.854	5.53 ppm	4971950	Chrysene-d12a	11.309

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chrysene, 1-methyl-	242	C19H14	003351-28-8	98
2	Chrysene, 2-methyl-	242	C19H14	003351-32-4	96
3	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	96
4	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	96
5	Chrysene, 3-methyl-	242	C19H14	003351-31-3	93





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ALS Vial : 21 Sample Multiplier: 1

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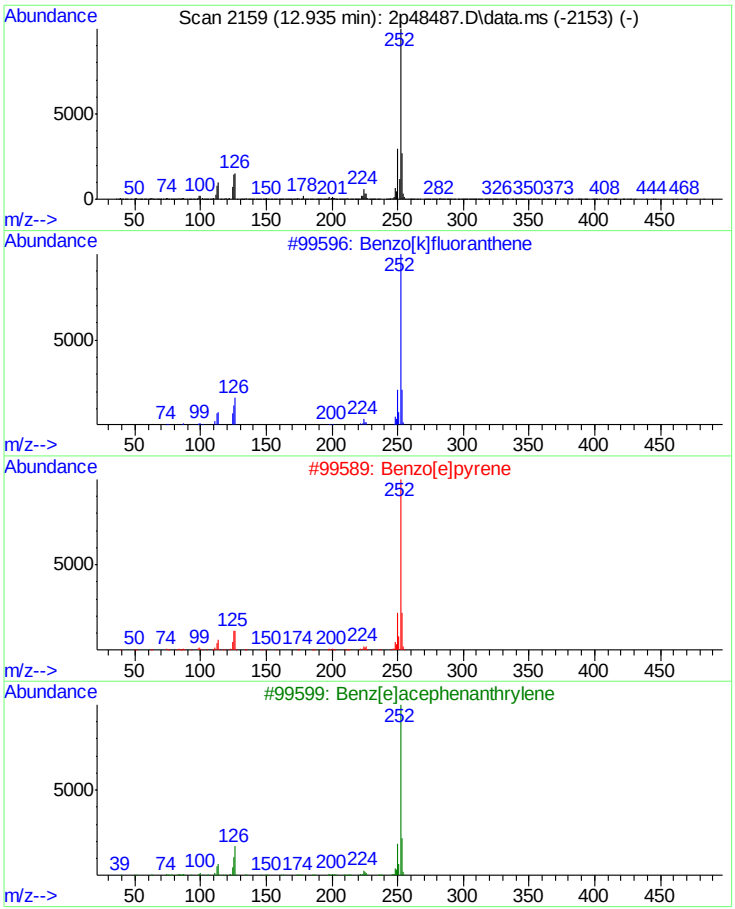
Quant Title : Semi Volatile Extractables by GC/MS

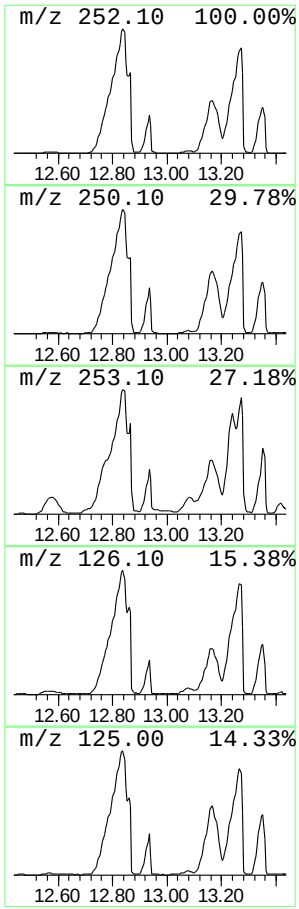
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 13 unknown PAH substance Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.935	7.05 ppm	4420340	Perylene-d12	13.304

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	99
2	Benzo[e]pyrene	252	C20H12	000192-97-2	98
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	98
4	Benzo[a]pyrene	252	C20H12	000050-32-8	95
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94





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Sample    : jb94209-11
Misc      : op83787,e2p2069,31.2
ALS Vial  : 21   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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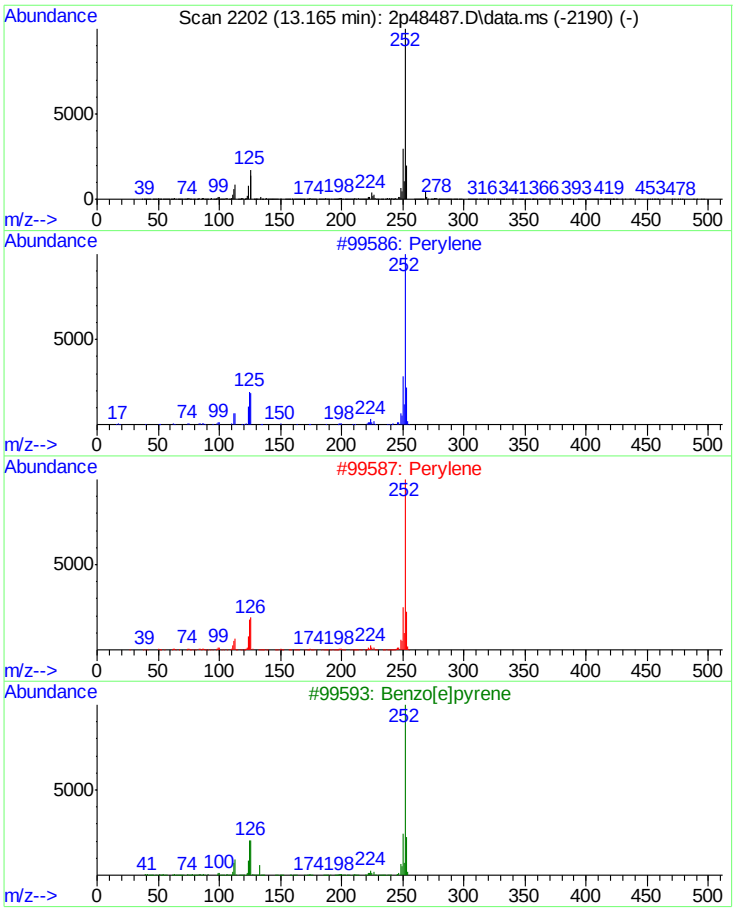
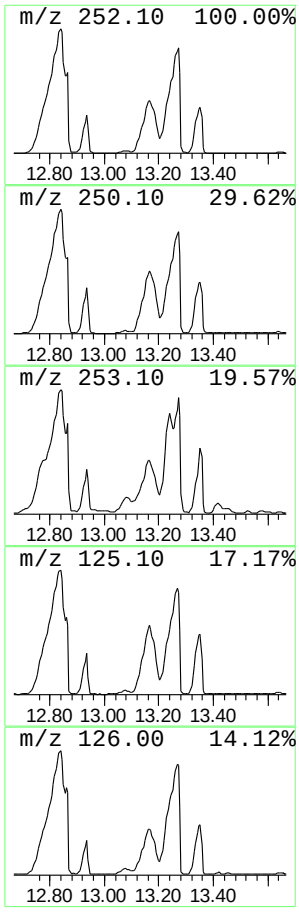
Peak Number 14 unknown PAH substance Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.165	22.44 ppm	14063200	Perylene-d12	13.304

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	98
2	Perylene	252	C20H12	000198-55-0	98
3	Benzo[e]pyrene	252	C20H12	000192-97-2	98
4	Benzo[e]pyrene	252	C20H12	000192-97-2	98
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





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ALS Vial  : 21   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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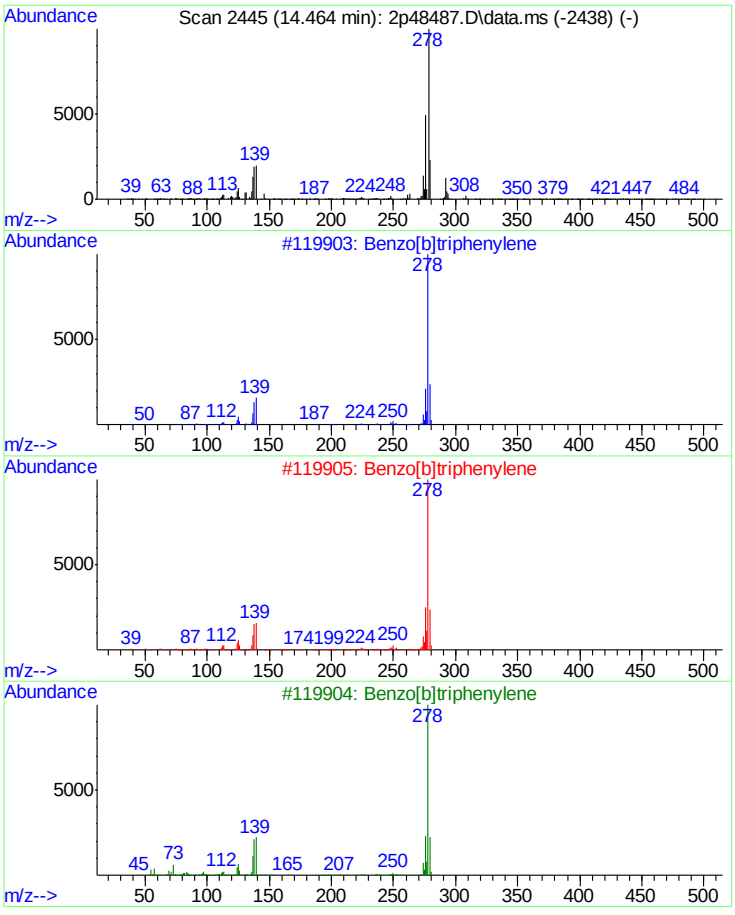
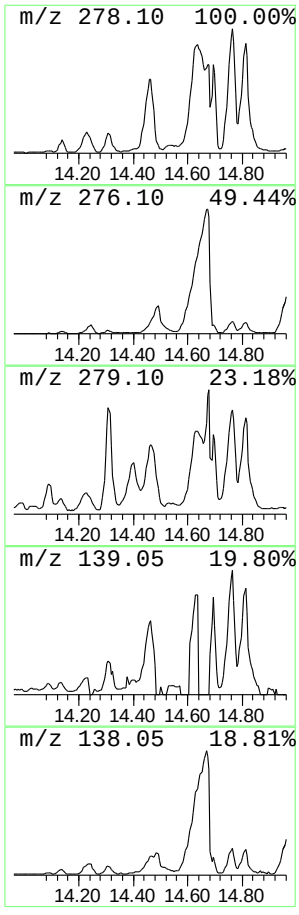
Peak Number 15 Benzo[b]triphenylene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.464	8.64 ppm	5417530	Perylene-d12	13.304

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	83
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	83
3	Benzo[b]triphenylene	278	C22H14	000215-58-7	64
4	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	64
5	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	58





Library Search Compound Report

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Operator : sarad
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Misc : op83787,e2p2069,31.2
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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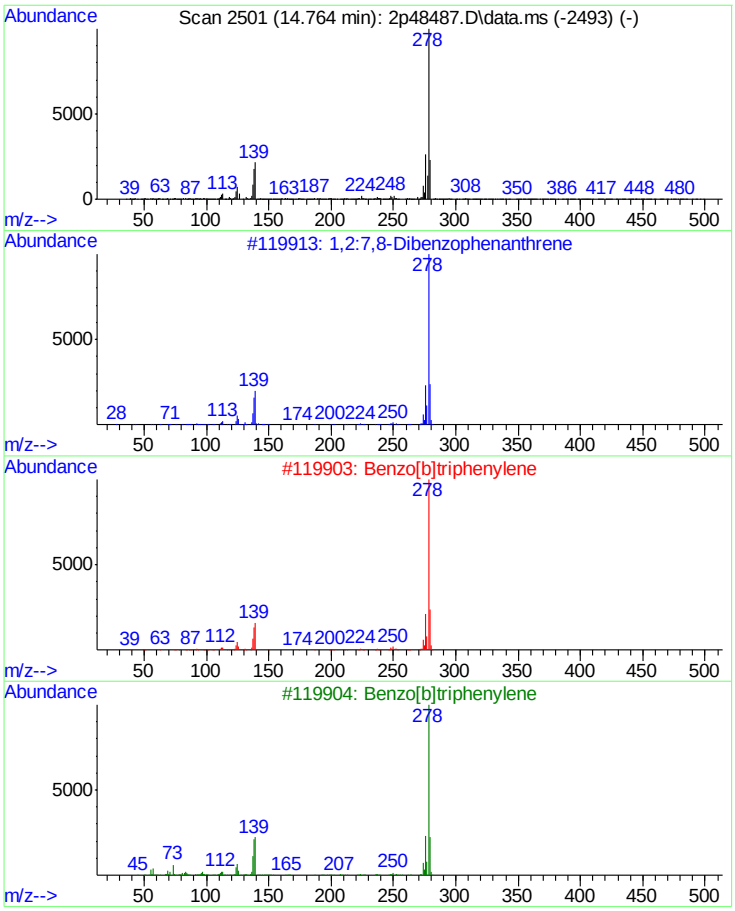
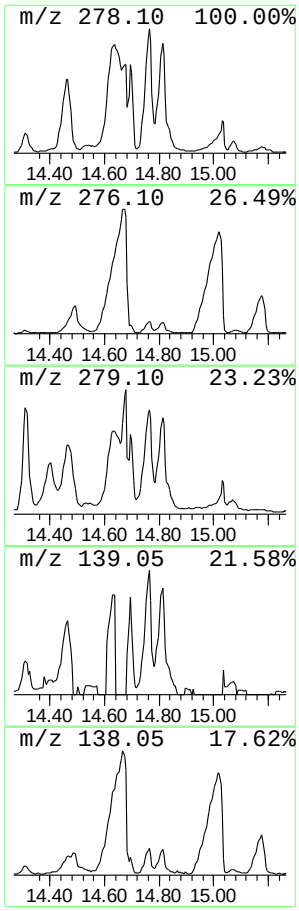
Peak Number 16 Dibenzophenanthrene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.764	5.14 ppm	3220560	Perylene-d12	13.304

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	98
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	98
3	Benzo[b]triphenylene	278	C22H14	000215-58-7	96
4	Benzo[b]chrysene	278	C22H14	000214-17-5	93
5	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	93





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ALS Vial : 21 Sample Multiplier: 1

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Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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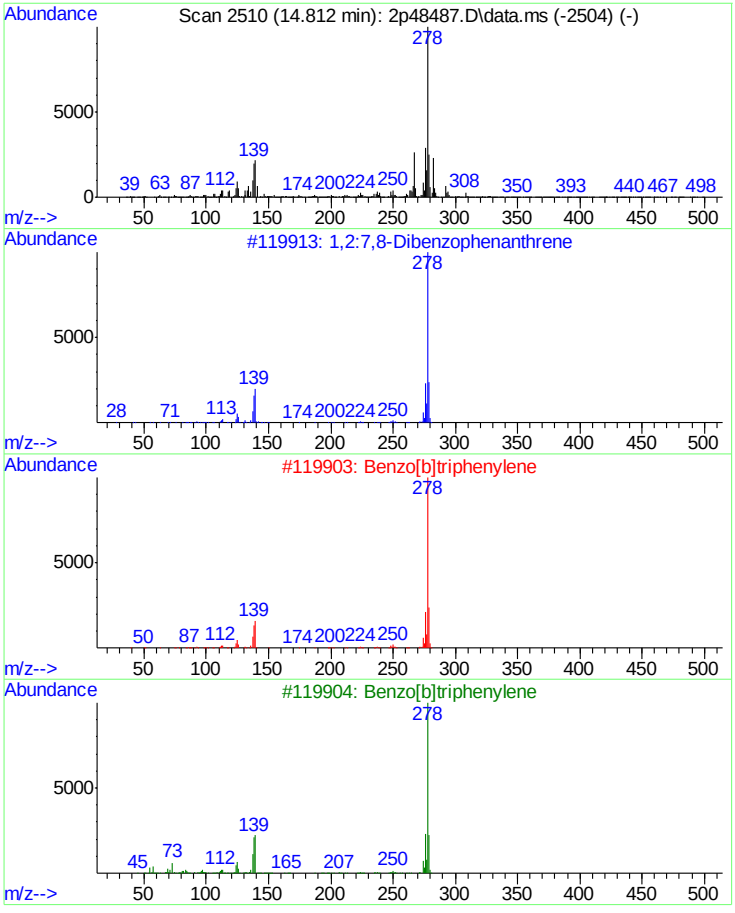
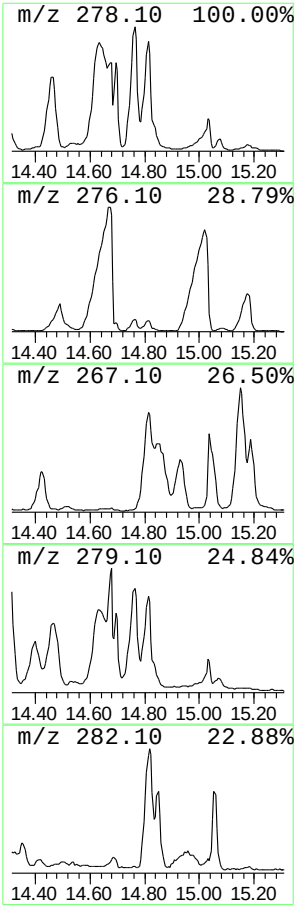
Peak Number 17 Dibenzophenanthrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.812	8.83 ppm	5530900	Perylene-d12	13.304

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	96
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	96
3	Benzo[b]triphenylene	278	C22H14	000215-58-7	93
4	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	92
5	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	90





Library Search Compound Report

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Sample    : jb94209-11
Misc      : op83787,e2p2069,31.2
ALS Vial  : 21   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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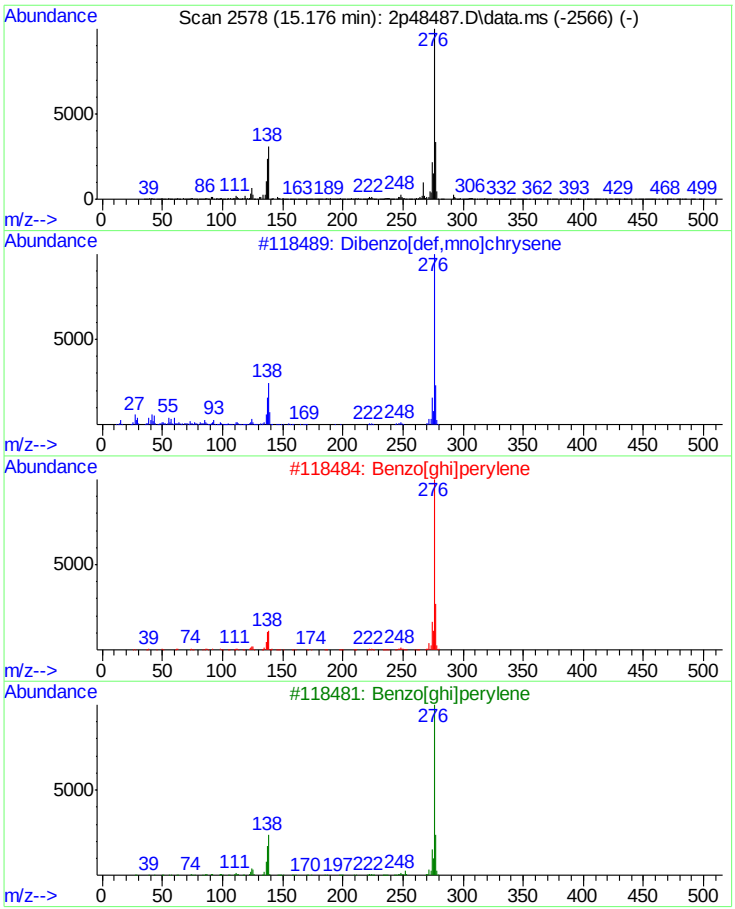
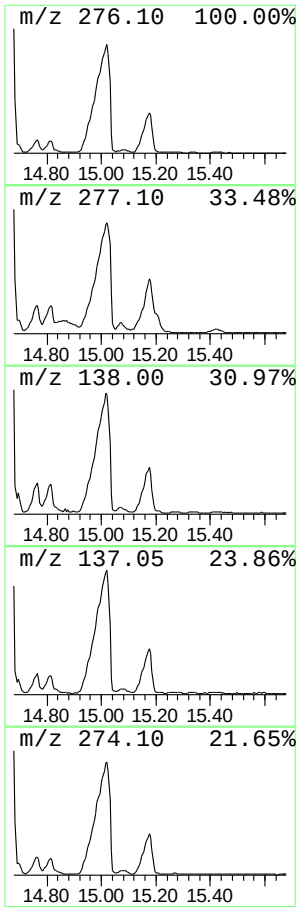
Peak Number 18 Dibenzo[def,mno]chrysene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.176	8.91 ppm	5581050	Perylene-d12	13.304

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	94
2	Benzo[ghi]perylene	276	C22H12	000191-24-2	94
3	Benzo[ghi]perylene	276	C22H12	000191-24-2	94
4	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	93
5	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	89





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48487.D
Acq On : 12 May 2015 12:35 am
Operator : sarad
Sample : jb94209-11
Misc : op83787,e2p2069,31.2
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Naphthalene, 1-...	6.046	9.2	ppm	812114	4	5.377	3518270	40.0
1,1'-Biphenyl, ...	7.335	32.2	ppm	1142260	6	6.816	1417680	40.0
3-(2-Naphthyl)a...	7.399	24.3	ppm	861942	6	6.816	1417680	40.0
11H-Benzo[b]flu...	10.073	6.7	ppm	6049960	8	11.309	35967800	40.0
unknown PAH sub...	10.159	4.8	ppm	4320160	8	11.309	35967800	40.0
Pyrene methyl	10.207	6.9	ppm	6216640	8	11.309	35967800	40.0
11H-Benzo[a]flu...	10.768	4.4	ppm	3973200	8	11.309	35967800	40.0
unknown	10.929	4.3	ppm	3854030	8	11.309	35967800	40.0
11H-Benzo[a]flu...	11.116	5.8	ppm	5181870	8	11.309	35967800	40.0
unknown	11.442	5.5	ppm	4935170	9	11.309	35967800	40.0
11H-Benzo[a]car...	11.587	4.1	ppm	3691640	9	11.309	35967800	40.0
Chrysene methyl	11.854	5.5	ppm	4971950	9	11.309	35967800	40.0
unknown PAH sub...	12.935	7.0	ppm	4420340	10	13.304	25068700	40.0
unknown PAH sub...	13.165	22.4	ppm	14063200	10	13.304	25068700	40.0
Benzo[b]triphen...	14.464	8.6	ppm	5417530	10	13.304	25068700	40.0
Dibenzophenanth...	14.764	5.1	ppm	3220560	10	13.304	25068700	40.0
Dibenzophenanth...	14.812	8.8	ppm	5530900	10	13.304	25068700	40.0
Dibenzo[def,mno...	15.176	8.9	ppm	5581050	10	13.304	25068700	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48489.D
Acq On : 12 May 2015 1:17 am
Operator : sarad
Sample : jb94209-11
Misc : op83787,e2p2069,31.2,,,1,40
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 12 10:01:07 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

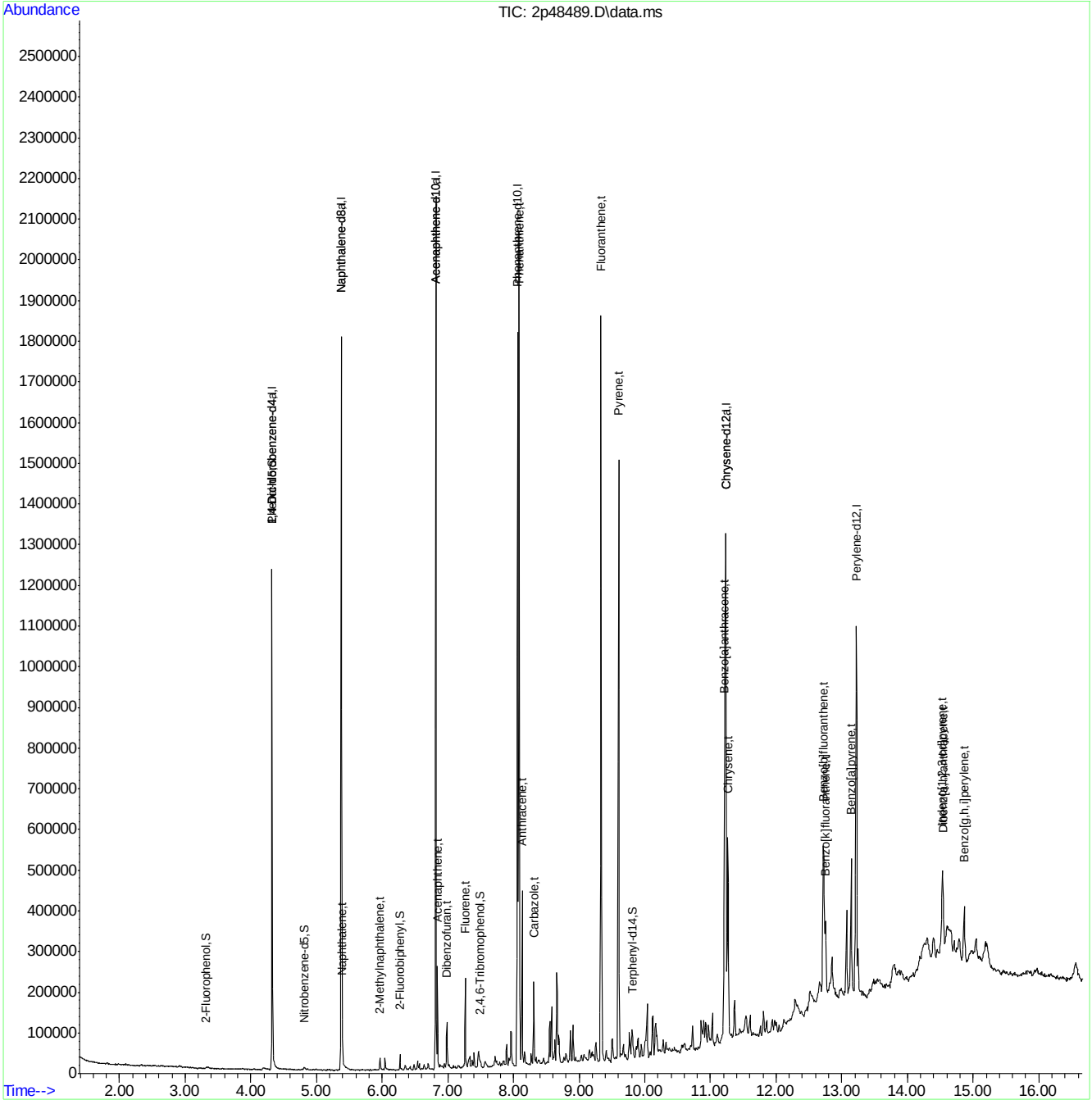
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.323	152	151410	40.00	ppm	-0.08
24) Naphthalene-d8	5.377	136	510504	40.00	ppm	-0.08
47) Acenaphthene-d10	6.816	164	327184	40.00	ppm	-0.08
69) Phenanthrene-d10	8.062	188	531722	40.00	ppm	-0.09
83) Chrysene-d12	11.234	240	458430	40.00	ppm	-0.10
92) Perylene-d12	13.223	264	380868	40.00	ppm	-0.10
102) 1,4-Dichlorobenzene-d4a	4.323	152	151410	40.00	ppm	-0.08
104) Naphthalene-d8a	5.377	136	510504	40.00	ppm	#-0.08
106) Acenaphthene-d10a	6.816	164	327184	40.00	ppm	-0.08
109) Chrysene-d12a	11.234	240	458430	40.00	ppm	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	3.323	112	2492	0.56	ppm	-0.07
Spiked Amount 50.000	Range 11 - 58		Recovery = 1.12%#			
8) Phenol-d5	4.323	99	3334	0.60	ppm	0.10
Spiked Amount 50.000	Range 10 - 59		Recovery = 1.20%#			
25) Nitrobenzene-d5	4.810	82	3487	0.75	ppm	-0.06
Spiked Amount 50.000	Range 19 - 61		Recovery = 1.50%#			
51) 2-Fluorobiphenyl	6.270	172	9135	0.82	ppm	-0.07
Spiked Amount 50.000	Range 21 - 58		Recovery = 1.64%#			
73) 2,4,6-Tribromophenol	7.484	330	1042	0.84	ppm	-0.07
Spiked Amount 50.000	Range 12 - 68		Recovery = 1.68%#			
85) Terphenyl-d14	9.816	244	9046	1.06	ppm	-0.10
Spiked Amount 50.000	Range 16 - 65		Recovery = 2.12%#			
Target Compounds						Qvalue
38) Naphthalene	5.393	128	26328	1.96	ppm	97
44) 2-Methylnaphthalene	5.965	141	6165	0.78	ppm	84
59) Acenaphthene	6.842	153	40499	4.22	ppm	93
62) Dibenzofuran	6.987	168	31682	2.46	ppm	87
66) Fluorene	7.265	166	44678	4.24	ppm	100
77) Phenanthrene	8.083	178	605394	41.40	ppm	99
78) Anthracene	8.131	178	140843	9.52	ppm	99
79) Carbazole	8.308	167	68029	4.76	ppm	99
81) Fluoranthene	9.335	202	787588	44.97	ppm	98
84) Pyrene	9.602	202	596071	42.59	ppm	97
88) Benzo[a]anthracene	11.218	228	261983	19.79	ppm	98
90) Chrysene	11.266	228	215393	18.22	ppm	96
94) Benzo[b]fluoranthene	12.721	252	229980	19.79	ppm	98
95) Benzo[k]fluoranthene	12.753	252	66527	6.05	ppm	97
96) Benzo[a]pyrene	13.143	252	157936	15.71	ppm	94
97) Indeno[1,2,3-cd]pyrene	14.534	276	87948	7.64	ppm	90
99) Dibenz[a,h]anthracene	14.539	278	24997	2.67	ppm	87
101) Benzo[g,h,i]perylene	14.865	276	76712	8.07	ppm	89

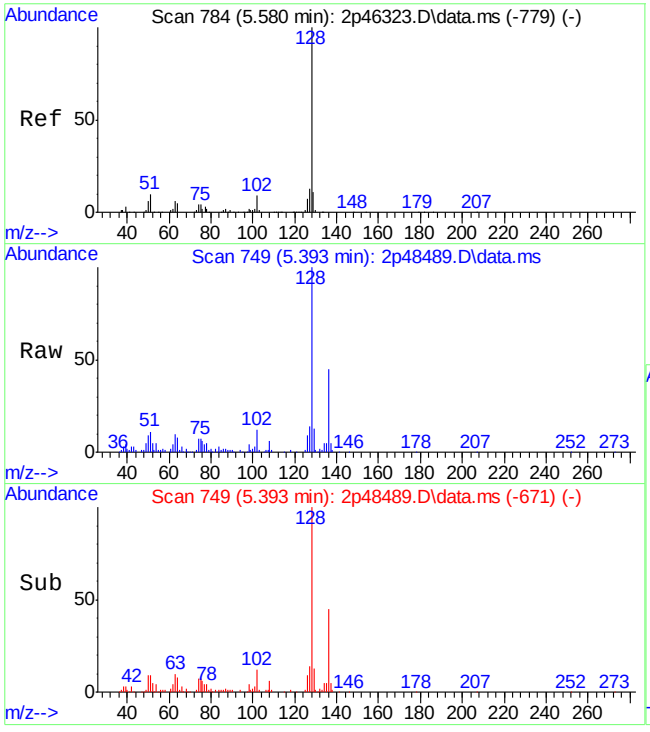
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48489.D
Acq On : 12 May 2015 1:17 am
Operator : sarad
Sample : jb94209-11
Misc : op83787,e2p2069,31.2,,,1,40
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 12 10:01:07 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

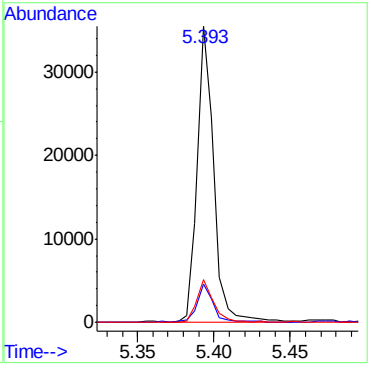


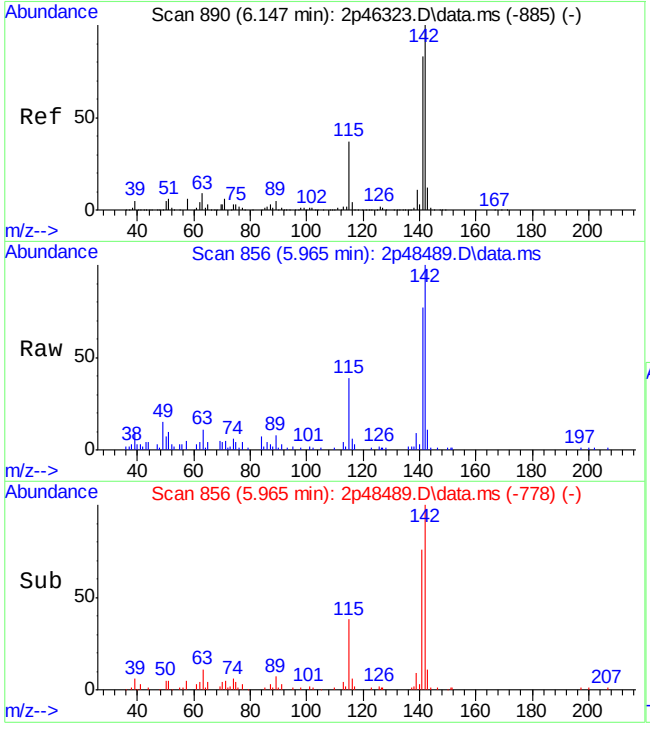


#38
Naphthalene
Concen: 1.96 ppm
RT: 5.393 min Scan# 749
Delta R.T. -0.080 min
Lab File: 2p48489.D
Acq: 12 May 2015 1:17 am

Tgt Ion:128 Resp: 26328

Ion	Ratio	Lower	Upper
128	100		
129	12.7	0.0	41.0
127	14.2	0.0	43.4

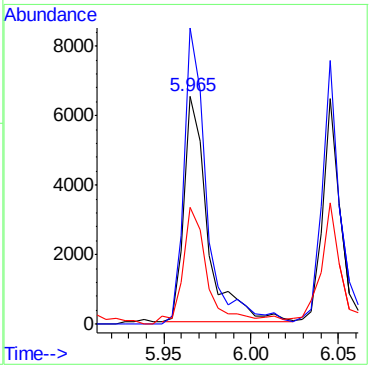


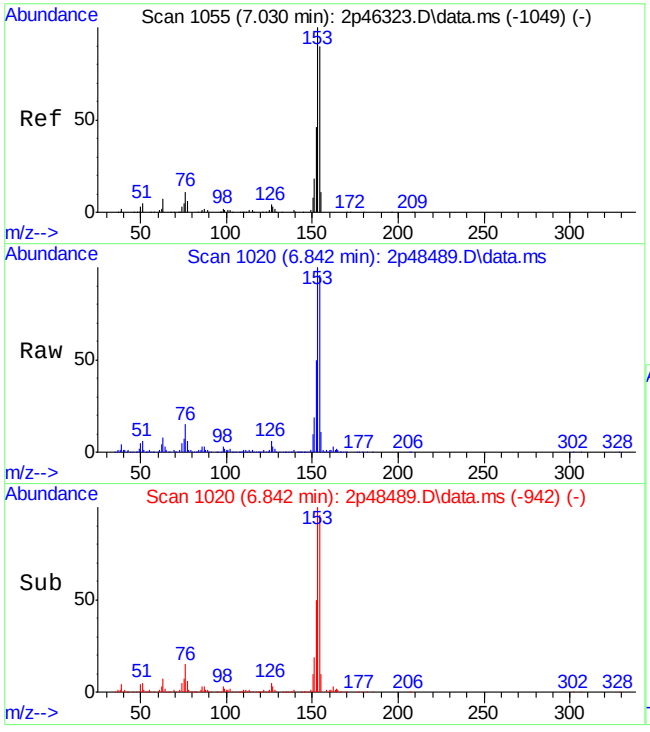


#44
2-Methylnaphthalene
Concen: 0.78 ppm
RT: 5.965 min Scan# 856
Delta R.T. -0.080 min
Lab File: 2p48489.D
Acq: 12 May 2015 1:17 am

Tgt Ion:141 Resp: 6165

Ion	Ratio	Lower	Upper
141	100		
142	130.7	85.1	145.1
115	48.7	6.3	66.3

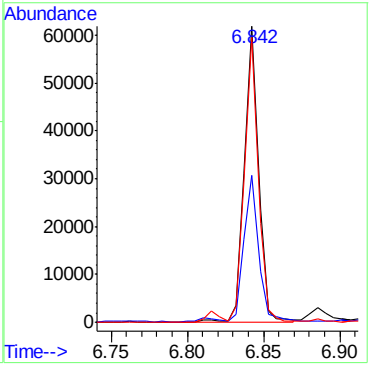


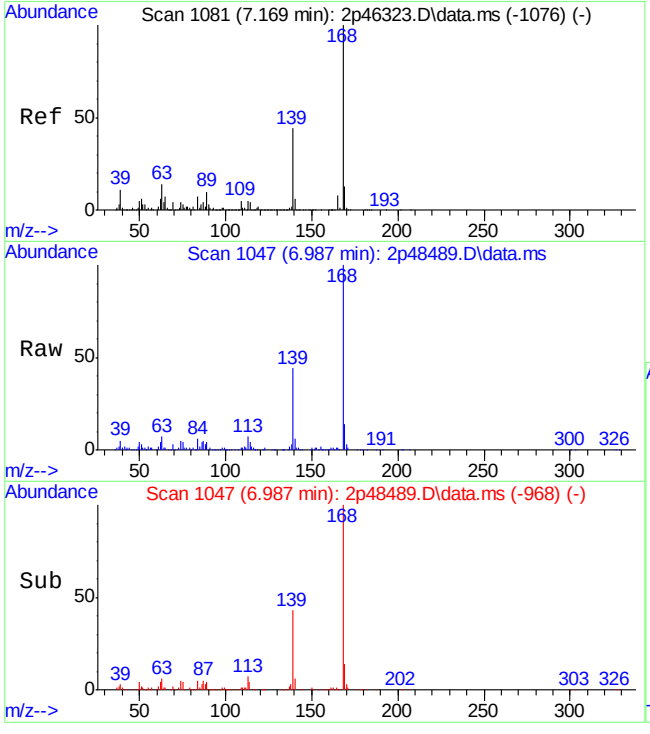


#59
Acenaphthene
Concen: 4.22 ppm
RT: 6.842 min Scan# 1020
Delta R.T. -0.080 min
Lab File: 2p48489.D
Acq: 12 May 2015 1:17 am

Tgt Ion:153 Resp: 40499

Ion	Ratio	Lower	Upper
153	100		
152	49.4	16.9	76.9
154	96.4	58.3	118.3

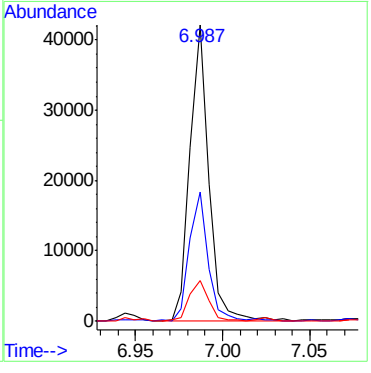




#62
Dibenzofuran
Concen: 2.46 ppm
RT: 6.987 min Scan# 1047
Delta R.T. -0.075 min
Lab File: 2p48489.D
Acq: 12 May 2015 1:17 am

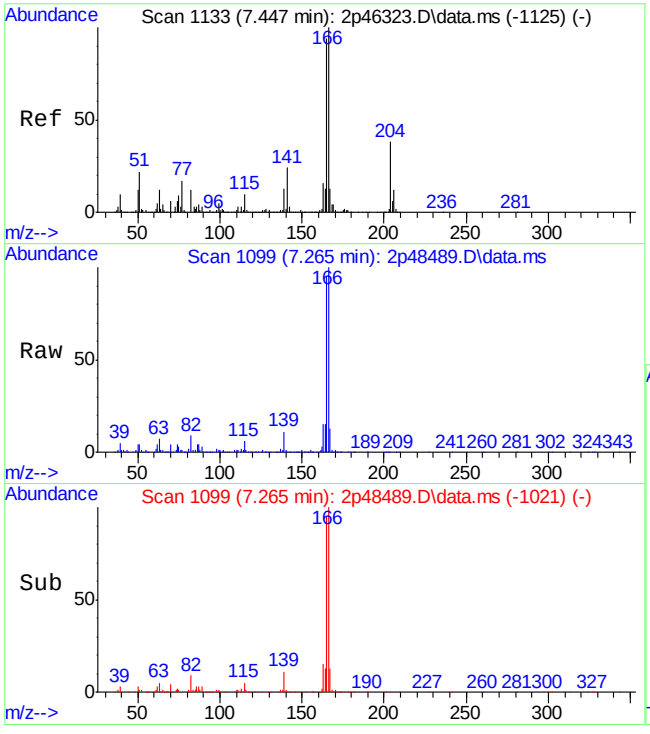
Tgt Ion:168 Resp: 31682

Ion	Ratio	Lower	Upper
168	100		
139	43.5	3.6	63.6
169	13.5	0.0	43.3



9.1.25

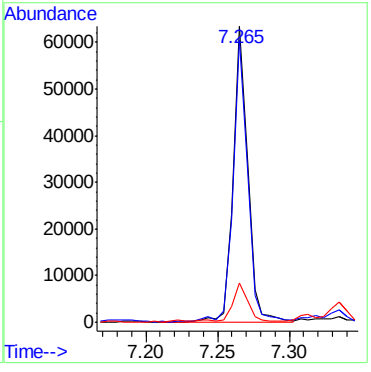
9

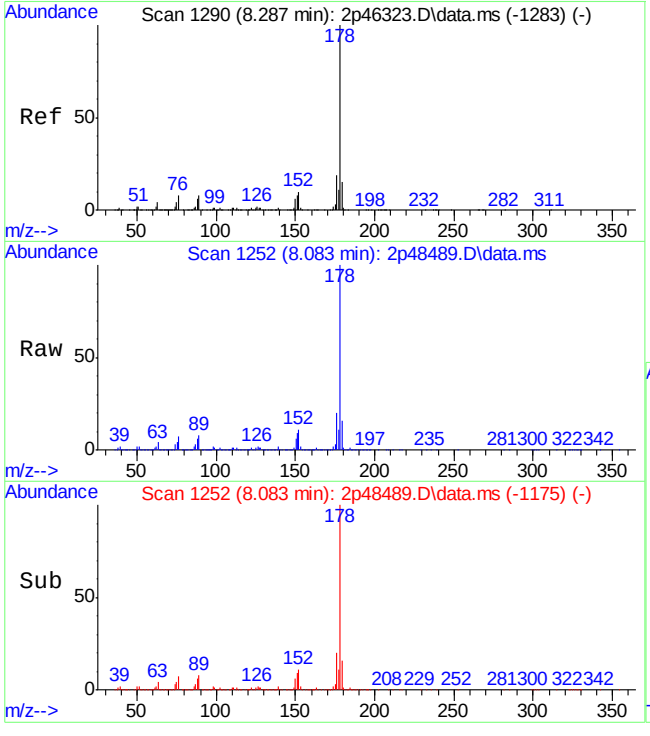


#66
Fluorene
Concen: 4.24 ppm
RT: 7.265 min Scan# 1099
Delta R.T. -0.080 min
Lab File: 2p48489.D
Acq: 12 May 2015 1:17 am

Tgt Ion:166 Resp: 44678

Ion	Ratio	Lower	Upper
166	100		
165	95.0	65.0	125.0
167	12.9	0.0	43.9

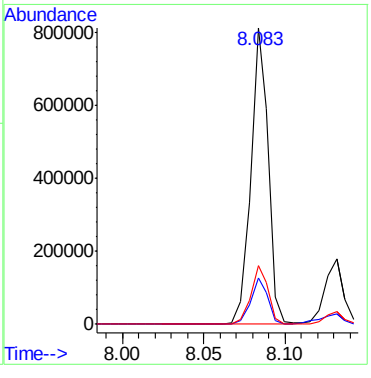


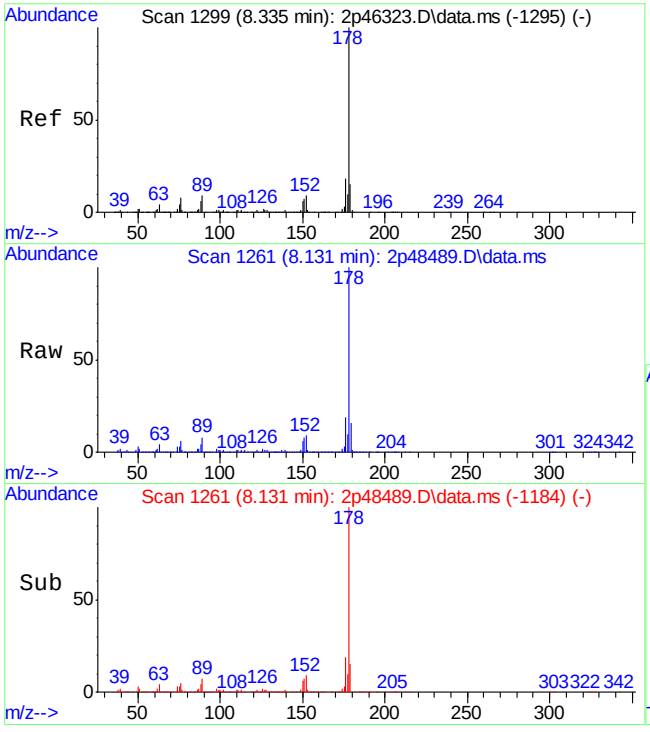


#77
Phenanthrene
Concen: 41.40 ppm
RT: 8.083 min Scan# 1252
Delta R.T. -0.086 min
Lab File: 2p48489.D
Acq: 12 May 2015 1:17 am

Tgt Ion:178 Resp: 605394

Ion	Ratio	Lower	Upper
178	100		
179	15.5	0.0	45.4
176	19.6	0.0	48.5

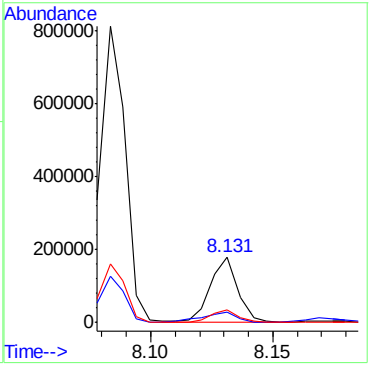


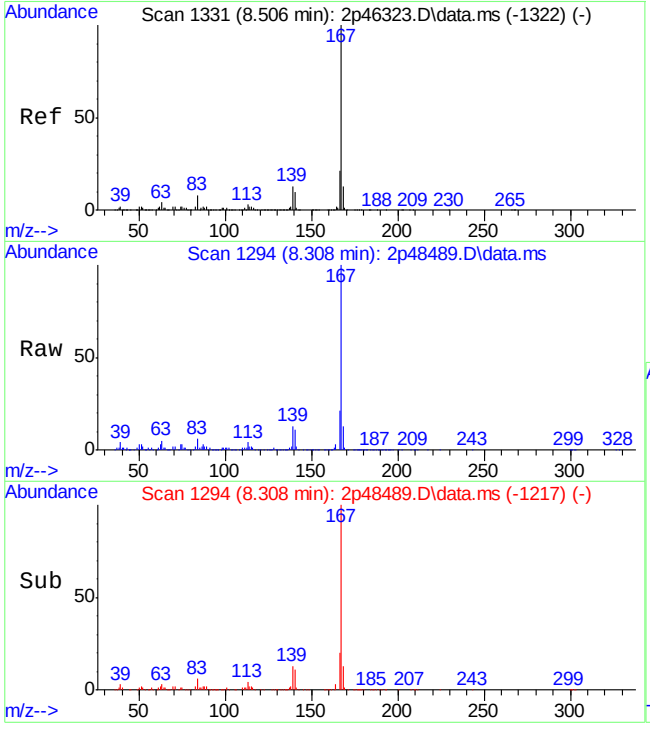


#78
Anthracene
Concen: 9.52 ppm
RT: 8.131 min Scan# 1261
Delta R.T. -0.086 min
Lab File: 2p48489.D
Acq: 12 May 2015 1:17 am

Tgt Ion:178 Resp: 140843

Ion	Ratio	Lower	Upper
178	100		
179	15.0	0.0	45.2
176	18.9	0.0	48.1

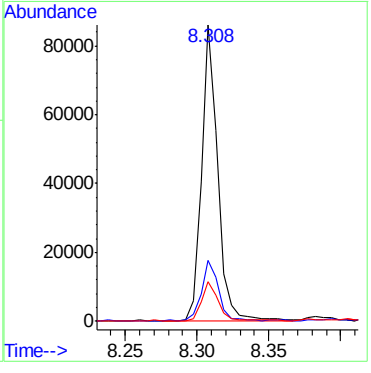


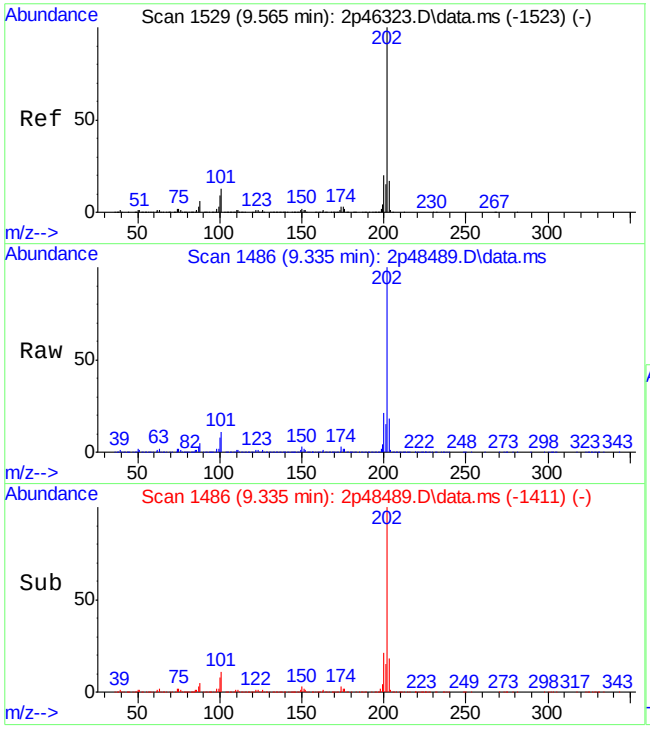


#79
Carbazole
Concen: 4.76 ppm
RT: 8.308 min Scan# 1294
Delta R.T. -0.086 min
Lab File: 2p48489.D
Acq: 12 May 2015 1:17 am

Tgt Ion:167 Resp: 68029

Ion	Ratio	Lower	Upper
167	100		
166	20.4	0.0	50.6
139	13.0	0.0	41.7

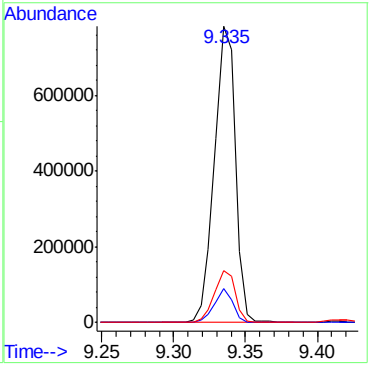


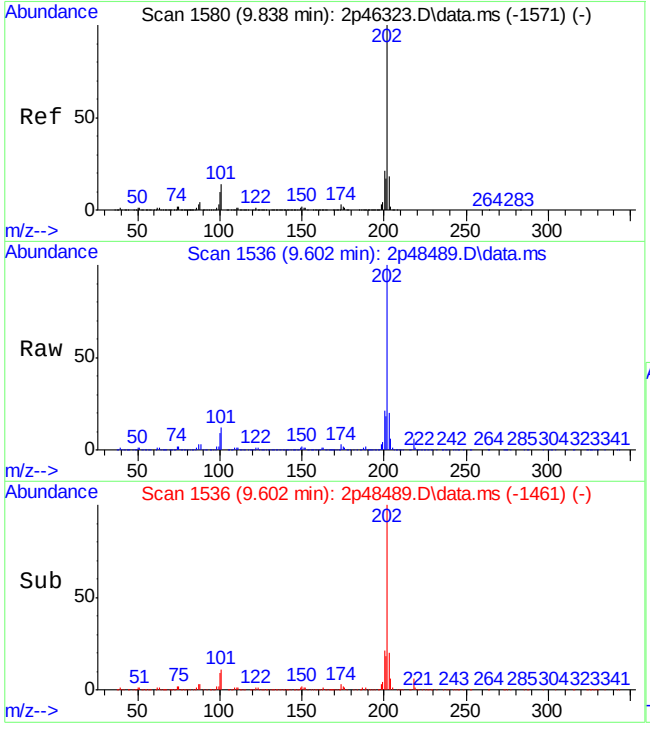


#81
Fluoranthene
Concen: 44.97 ppm
RT: 9.335 min Scan# 1486
Delta R.T. -0.096 min
Lab File: 2p48489.D
Acq: 12 May 2015 1:17 am

Tgt Ion:202 Resp: 787588

Ion	Ratio	Lower	Upper
202	100		
101	11.2	0.0	43.1
203	17.6	0.0	47.4

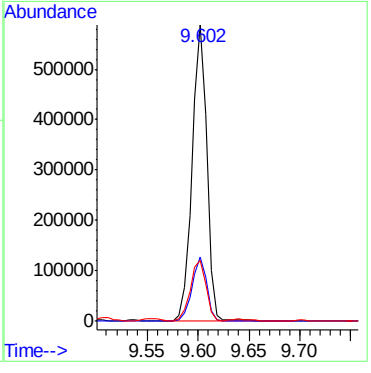


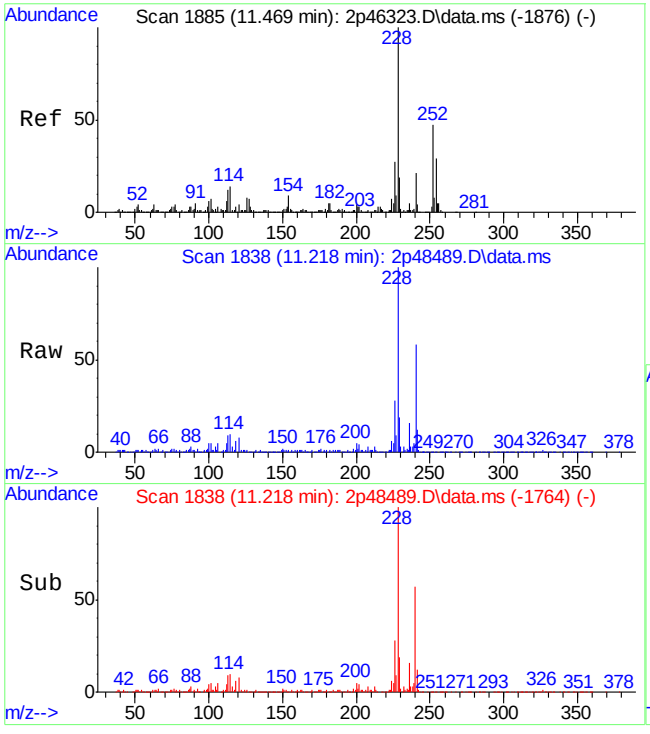


#84
Pyrene
Concen: 42.59 ppm
RT: 9.602 min Scan# 1536
Delta R.T. -0.096 min
Lab File: 2p48489.D
Acq: 12 May 2015 1:17 am

Tgt Ion:202 Resp: 596071

Ion	Ratio	Lower	Upper
202	100		
200	21.5	0.0	51.0
203	20.2	0.0	47.4

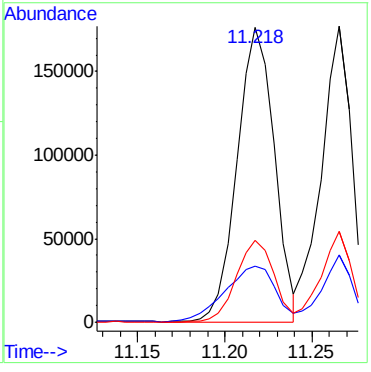


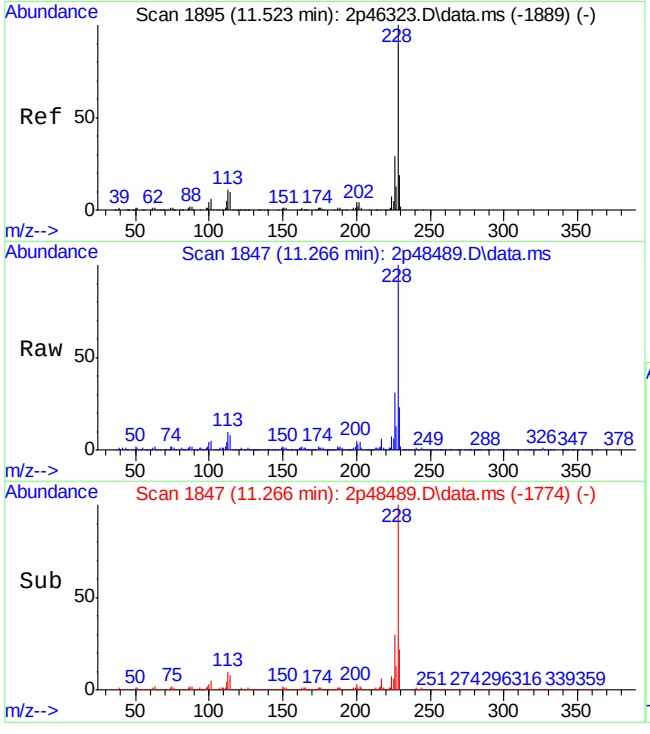


#88
Benzo[a]anthracene
Concen: 19.79 ppm
RT: 11.218 min Scan# 1838
Delta R.T. -0.102 min
Lab File: 2p48489.D
Acq: 12 May 2015 1:17 am

Tgt Ion:228 Resp: 261983

Ion	Ratio	Lower	Upper
228	100		
229	18.2	0.0	50.1
226	27.5	0.0	57.2

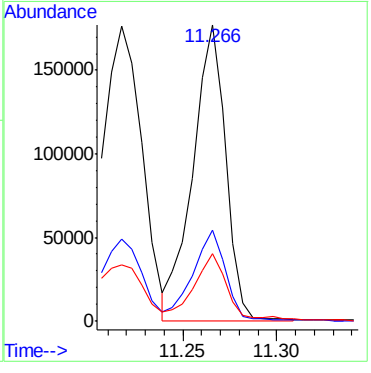


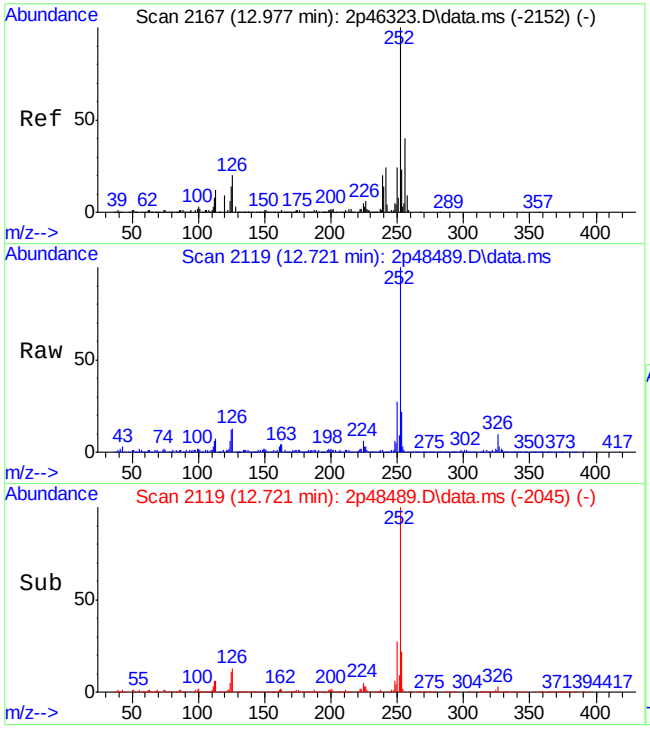


#90
Chrysene
Concen: 18.22 ppm
RT: 11.266 min Scan# 1847
Delta R.T. -0.107 min
Lab File: 2p48489.D
Acq: 12 May 2015 1:17 am

Tgt Ion:228 Resp: 215393

Ion	Ratio	Lower	Upper
228	100		
226	30.4	0.0	58.8
229	21.8	0.0	49.1

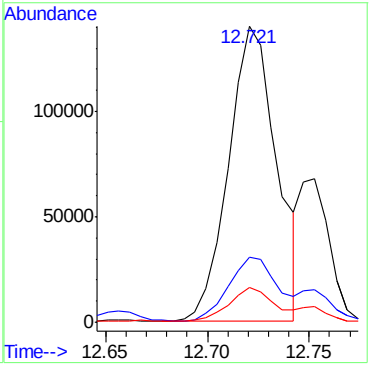


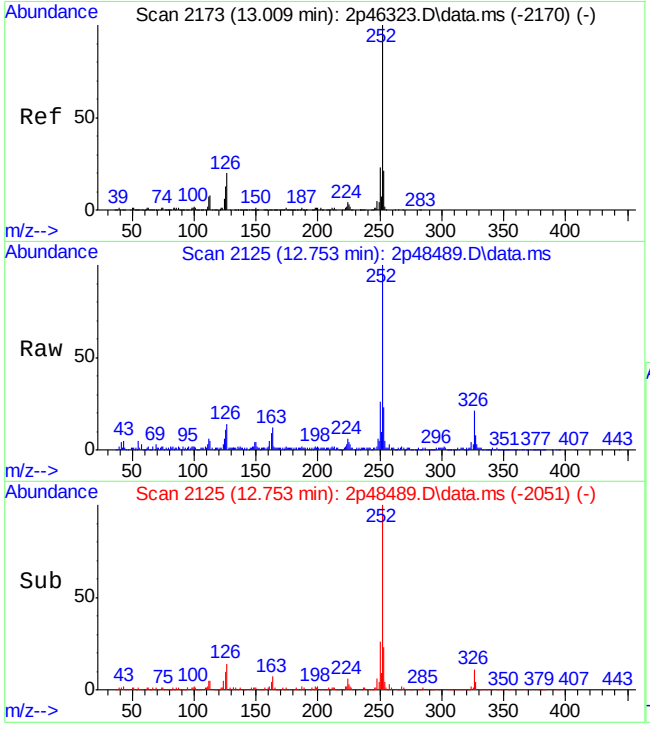


#94
Benzo[b]fluoranthene
Concen: 19.79 ppm
RT: 12.721 min Scan# 2119
Delta R.T. -0.102 min
Lab File: 2p48489.D
Acq: 12 May 2015 1:17 am

Tgt Ion:252 Resp: 229980

Ion	Ratio	Lower	Upper
252	100		
253	21.6	0.0	52.1
125	11.4	0.0	42.9

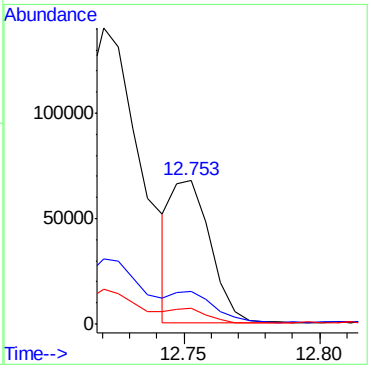




#95
Benzo[k]fluoranthene
Concen: 6.05 ppm
RT: 12.753 min Scan# 2125
Delta R.T. -0.102 min
Lab File: 2p48489.D
Acq: 12 May 2015 1:17 am

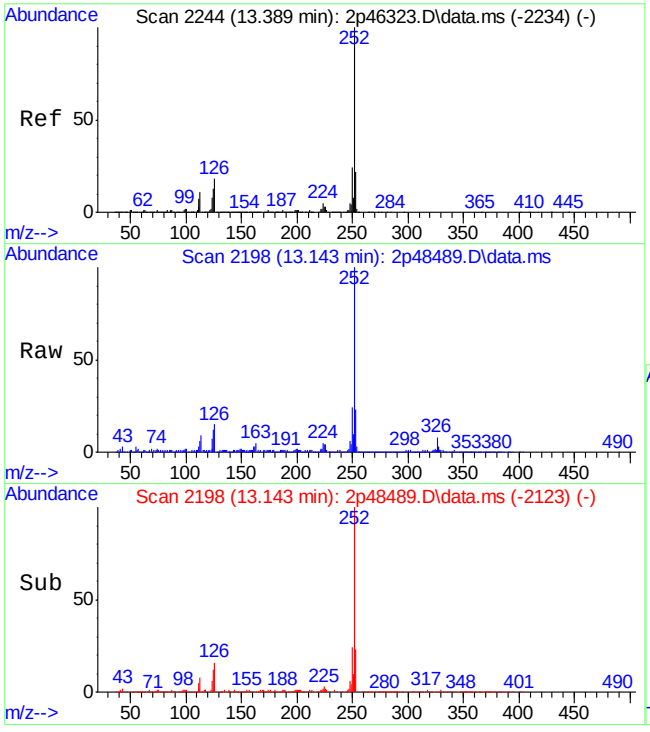
Tgt Ion:252 Resp: 66527

Ion	Ratio	Lower	Upper
252	100		
253	21.7	0.0	51.5
125	9.6	0.0	42.7



9.1.25

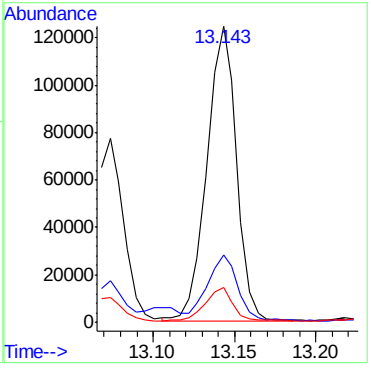
9

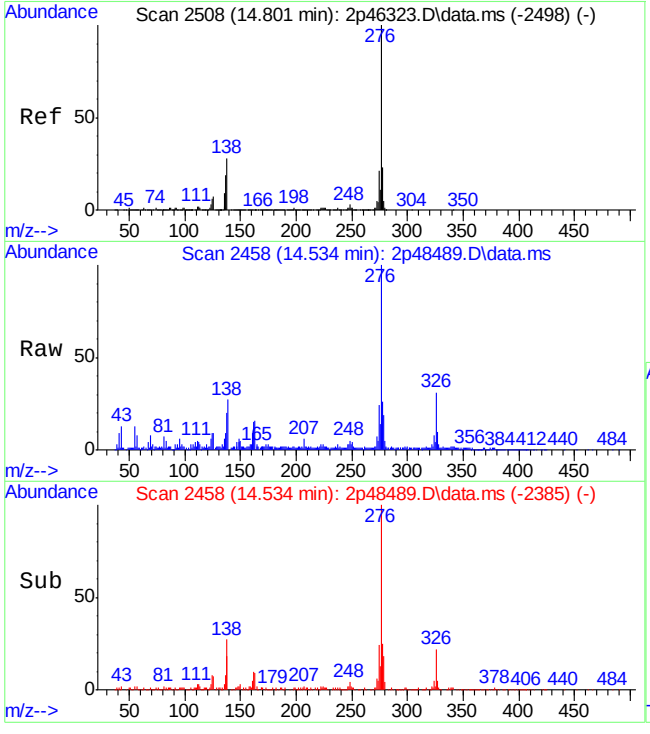


#96
Benzo[a]pyrene
Concen: 15.71 ppm
RT: 13.143 min Scan# 2198
Delta R.T. -0.096 min
Lab File: 2p48489.D
Acq: 12 May 2015 1:17 am

Tgt Ion:252 Resp: 157936

Ion	Ratio	Lower	Upper
252	100		
253	20.3	0.0	51.8
125	11.3	0.0	45.1

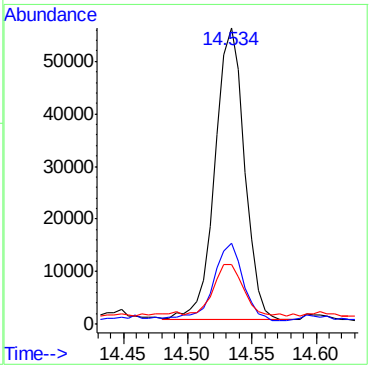


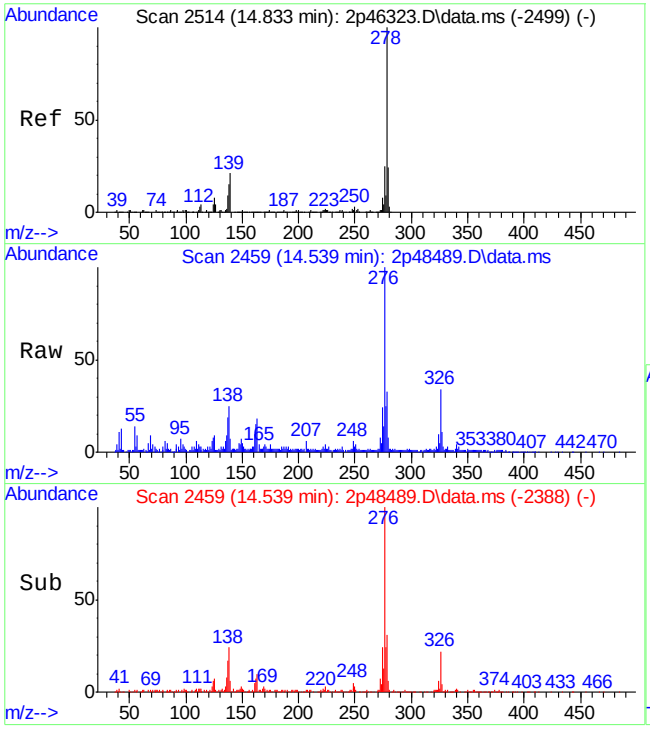


#97
Indeno[1,2,3-cd]pyrene
Concen: 7.64 ppm
RT: 14.534 min Scan# 2458
Delta R.T. -0.107 min
Lab File: 2p48489.D
Acq: 12 May 2015 1:17 am

Tgt Ion:276 Resp: 87948

Ion	Ratio	Lower	Upper
276	100		
138	26.1	1.0	61.0
137	17.0	0.0	52.7

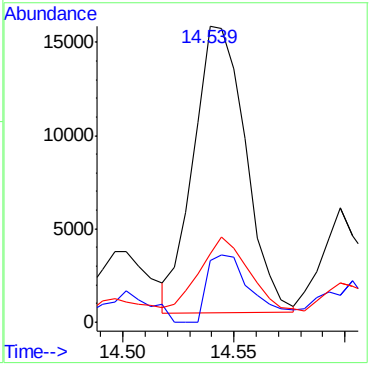


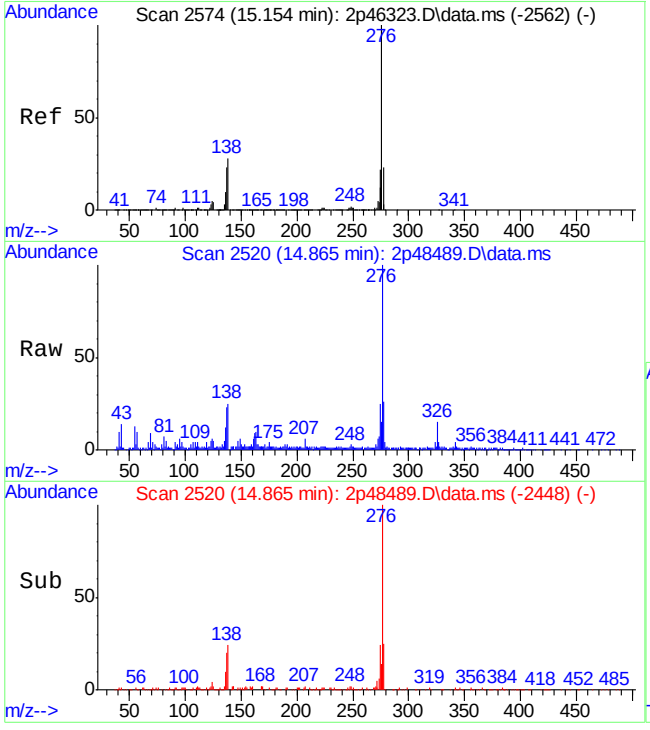


#99
Dibenz[a,h]anthracene
Concen: 2.67 ppm
RT: 14.539 min Scan# 2459
Delta R.T. -0.118 min
Lab File: 2p48489.D
Acq: 12 May 2015 1:17 am

Tgt Ion:278 Resp: 24997

Ion	Ratio	Lower	Upper
278	100		
139	17.3	0.0	56.2
279	20.3	0.0	54.2

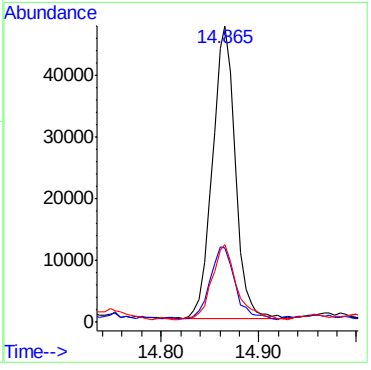




#101
Benzo[g,h,i]perylene
Concen: 8.07 ppm
RT: 14.865 min Scan# 2520
Delta R.T. -0.112 min
Lab File: 2p48489.D
Acq: 12 May 2015 1:17 am

Tgt Ion:276 Resp: 76712

Ion	Ratio	Lower	Upper
276	100		
138	24.2	3.5	63.5
277	25.2	0.0	53.3



9.1.25

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48476.D
Acq On : 11 May 2015 8:44 pm
Operator : sarad
Sample : jb94209-12
Misc : op83787,e2p2069,30.2
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 11 22:36:26 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

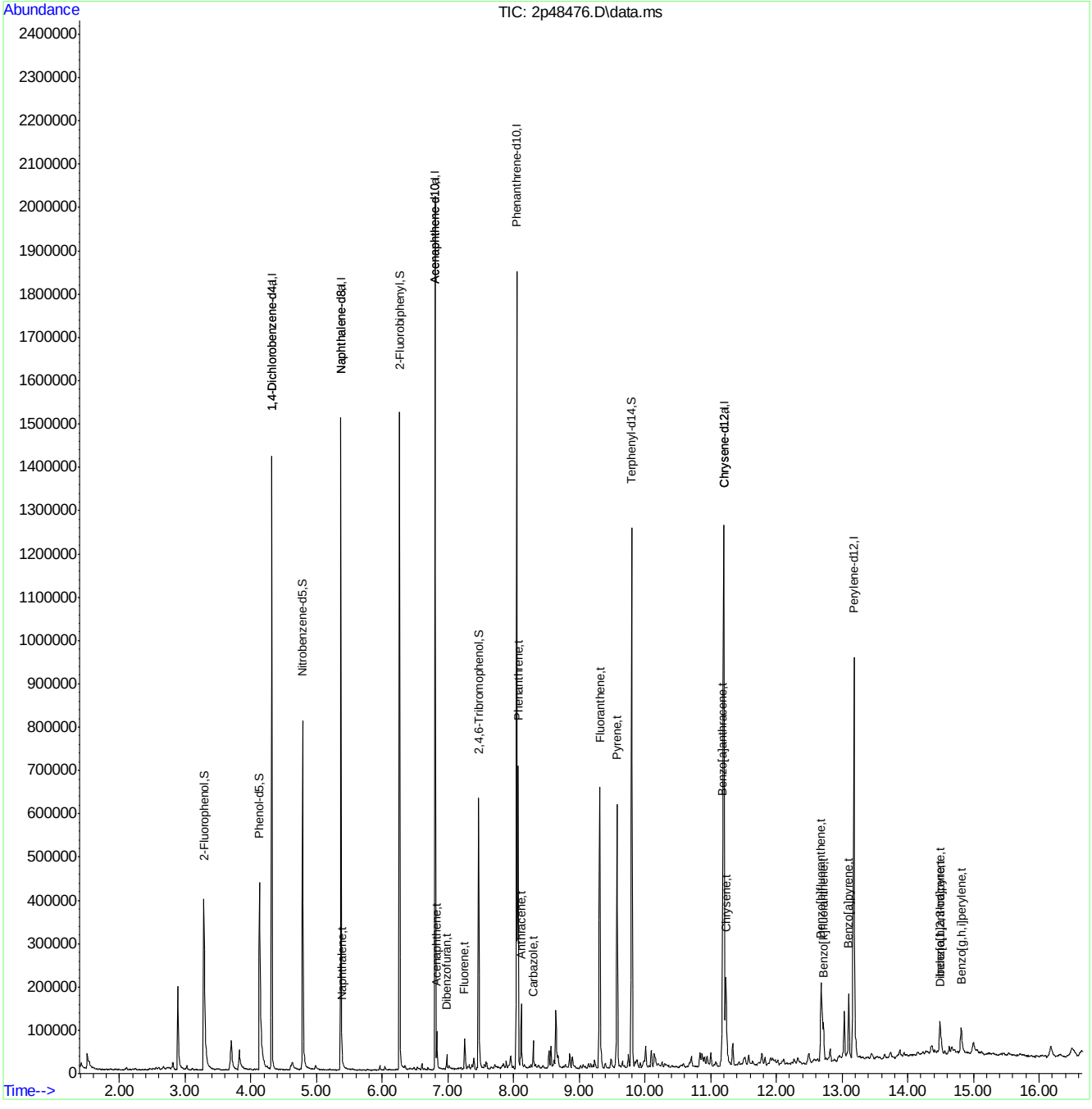
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.318	152	150231	40.00 ppm	-0.09
24) Naphthalene-d8	5.372	136	504096	40.00 ppm	-0.09
47) Acenaphthene-d10	6.805	164	306650	40.00 ppm	-0.09
69) Phenanthrene-d10	8.046	188	508401	40.00 ppm	-0.10
83) Chrysene-d12	11.202	240	474329	40.00 ppm	-0.13
92) Perylene-d12	13.181	264	383861	40.00 ppm	-0.14
102) 1,4-Dichlorobenzene-d4a	4.318	152	150231	40.00 ppm	-0.09
104) Naphthalene-d8a	5.372	136	504096	40.00 ppm	#-0.09
106) Acenaphthene-d10a	6.805	164	306650	40.00 ppm	-0.09
109) Chrysene-d12a	11.202	240	474329	40.00 ppm	-0.13
System Monitoring Compounds					
5) 2-Fluorophenol	3.286	112	140894	31.90 ppm	-0.11
Spiked Amount 50.000	Range 11 - 58		Recovery = 63.80%#		
8) Phenol-d5	4.131	99	162256	29.19 ppm	-0.10
Spiked Amount 50.000	Range 10 - 59		Recovery = 58.38%		
25) Nitrobenzene-d5	4.789	82	173835	38.05 ppm	-0.09
Spiked Amount 50.000	Range 19 - 61		Recovery = 76.10%#		
51) 2-Fluorobiphenyl	6.265	172	392398	37.38 ppm	-0.08
Spiked Amount 50.000	Range 21 - 58		Recovery = 74.76%#		
73) 2,4,6-Tribromophenol	7.468	330	42118	35.66 ppm	-0.09
Spiked Amount 50.000	Range 12 - 68		Recovery = 71.32%#		
85) Terphenyl-d14	9.800	244	375803	42.59 ppm	-0.12
Spiked Amount 50.000	Range 16 - 65		Recovery = 85.18%#		
Target Compounds					Qvalue
38) Naphthalene	5.388	128	8445	0.64 ppm	92
59) Acenaphthene	6.832	153	14335	1.59 ppm	92
62) Dibenzofuran	6.982	168	11239	0.93 ppm	86
66) Fluorene	7.254	166	15243	1.55 ppm	92
77) Phenanthrene	8.067	178	198837	14.22 ppm	98
78) Anthracene	8.115	178	50875	3.60 ppm	96
79) Carbazole	8.297	167	25307	1.85 ppm	98
81) Fluoranthene	9.314	202	288729	17.24 ppm	96
84) Pyrene	9.576	202	224975	15.54 ppm	96
88) Benzo[a]anthracene	11.186	228	114799	8.38 ppm	97
90) Chrysene	11.234	228	95310	7.79 ppm	97
94) Benzo[b]fluoranthene	12.683	252	105187	8.98 ppm	97
95) Benzo[k]fluoranthene	12.715	252	35004	3.16 ppm	93
96) Benzo[a]pyrene	13.100	252	74156	7.32 ppm	95
97) Indeno[1,2,3-cd]pyrene	14.491	276	39547	3.41 ppm	86
99) Dibenz[a,h]anthracene	14.502	278	10831	1.15 ppm	87
101) Benzo[g,h,i]perylene	14.817	276	35704	3.73 ppm	92

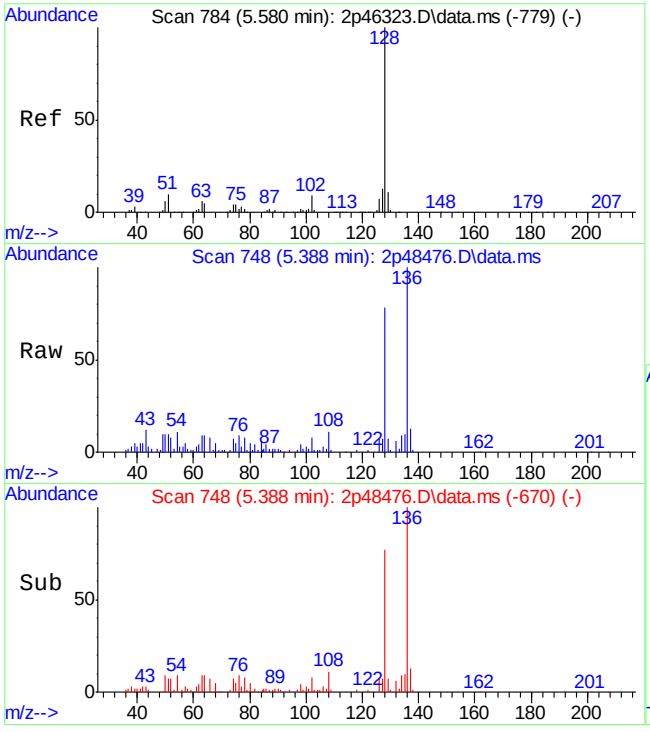
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48476.D
Acq On : 11 May 2015 8:44 pm
Operator : sarad
Sample : jb94209-12
Misc : op83787,e2p2069,30.2
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 11 22:36:26 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

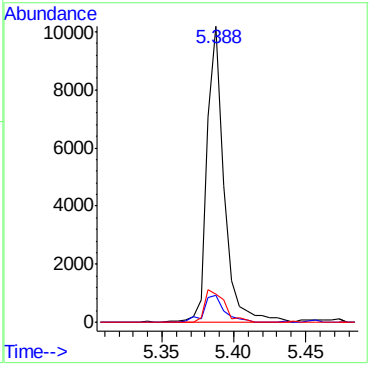


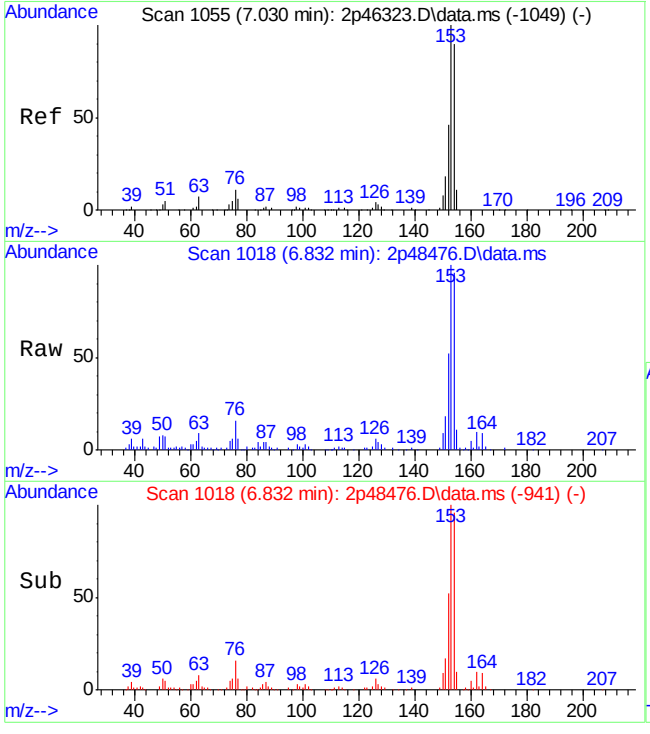


#38
Naphthalene
Concen: 0.64 ppm
RT: 5.388 min Scan# 748
Delta R.T. -0.085 min
Lab File: 2p48476.D
Acq: 11 May 2015 8:44 pm

Tgt Ion:128 Resp: 8445

Ion	Ratio	Lower	Upper
128	100		
129	9.0	0.0	41.0
127	9.2	0.0	43.4

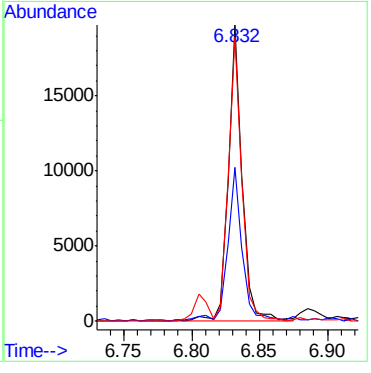




#59
Acenaphthene
Concen: 1.59 ppm
RT: 6.832 min Scan# 1018
Delta R.T. -0.091 min
Lab File: 2p48476.D
Acq: 11 May 2015 8:44 pm

Tgt Ion:153 Resp: 14335

Ion	Ratio	Lower	Upper
153	100		
152	51.0	16.9	76.9
154	96.1	58.3	118.3



9.1.26

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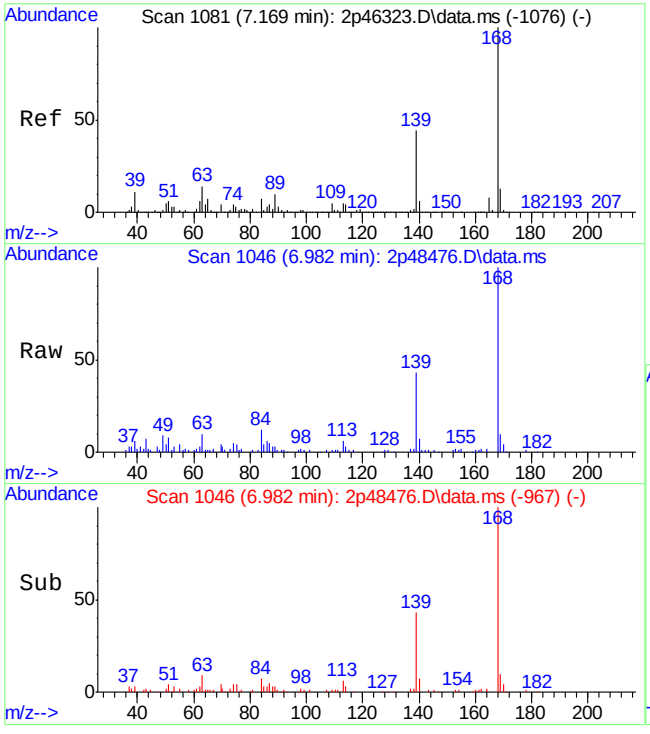
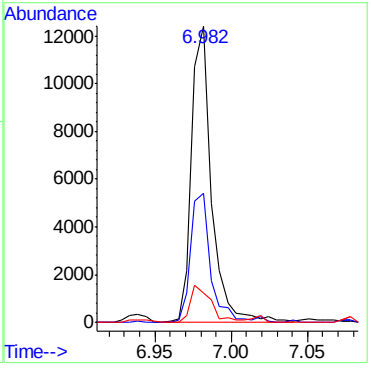
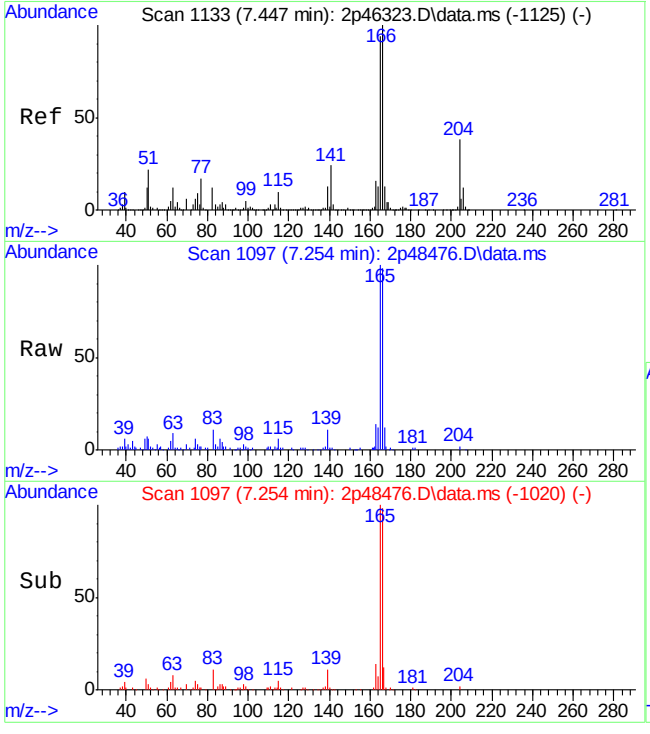


#62
Dibenzofuran
Concen: 0.93 ppm
RT: 6.982 min Scan# 1046
Delta R.T. -0.080 min
Lab File: 2p48476.D
Acq: 11 May 2015 8:44 pm

Tgt Ion:168 Resp: 11239

Ion	Ratio	Lower	Upper
168	100		
139	43.1	3.6	63.6
169	9.8	0.0	43.3

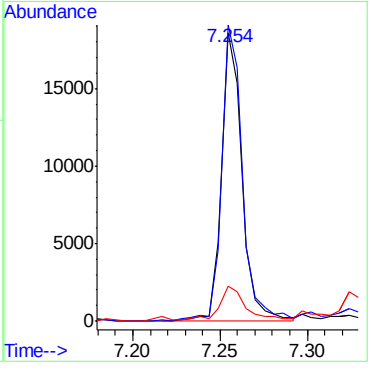




#66
Fluorene
Concen: 1.55 ppm
RT: 7.254 min Scan# 1097
Delta R.T. -0.091 min
Lab File: 2p48476.D
Acq: 11 May 2015 8:44 pm

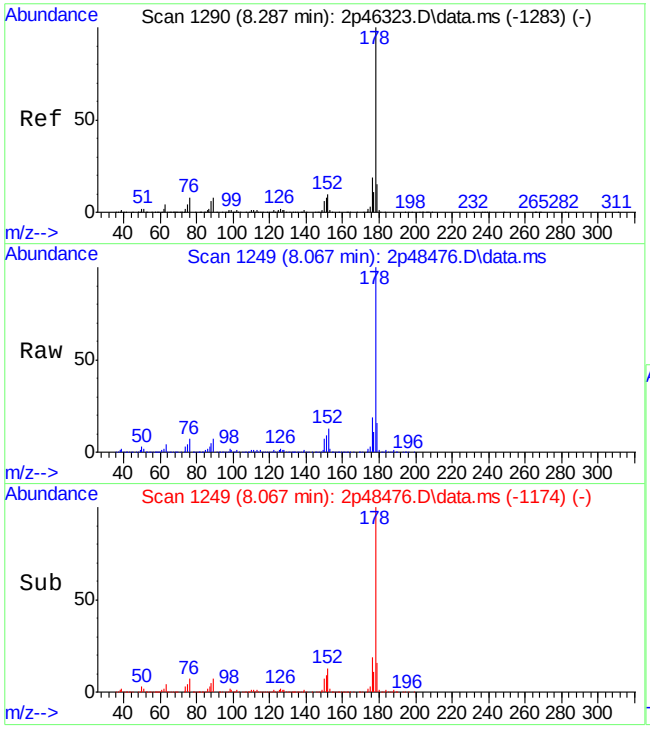
Tgt Ion:166 Resp: 15243

Ion	Ratio	Lower	Upper
166	100		
165	102.5	65.0	125.0
167	10.9	0.0	43.9



9.1.26

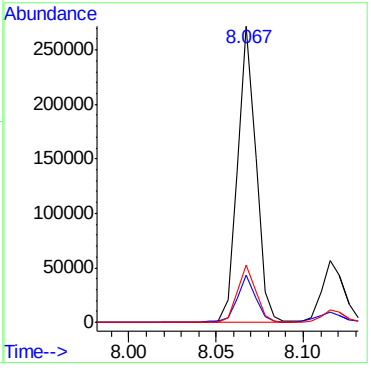
9

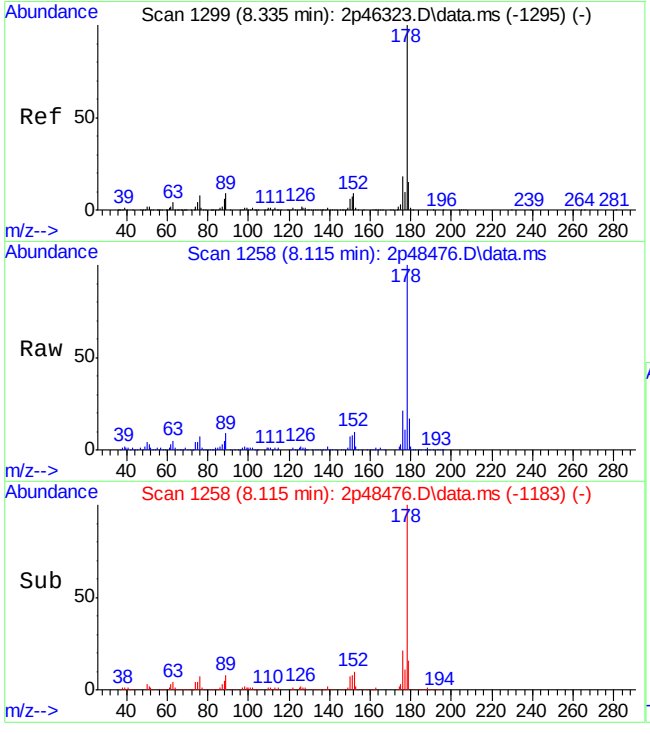


#77
Phenanthrene
Concen: 14.22 ppm
RT: 8.067 min Scan# 1249
Delta R.T. -0.102 min
Lab File: 2p48476.D
Acq: 11 May 2015 8:44 pm

Tgt Ion:178 Resp: 198837

Ion	Ratio	Lower	Upper
178	100		
179	16.0	0.0	45.4
176	19.4	0.0	48.5

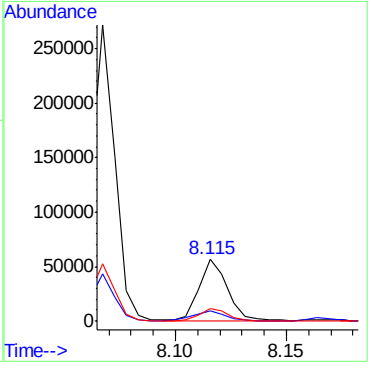


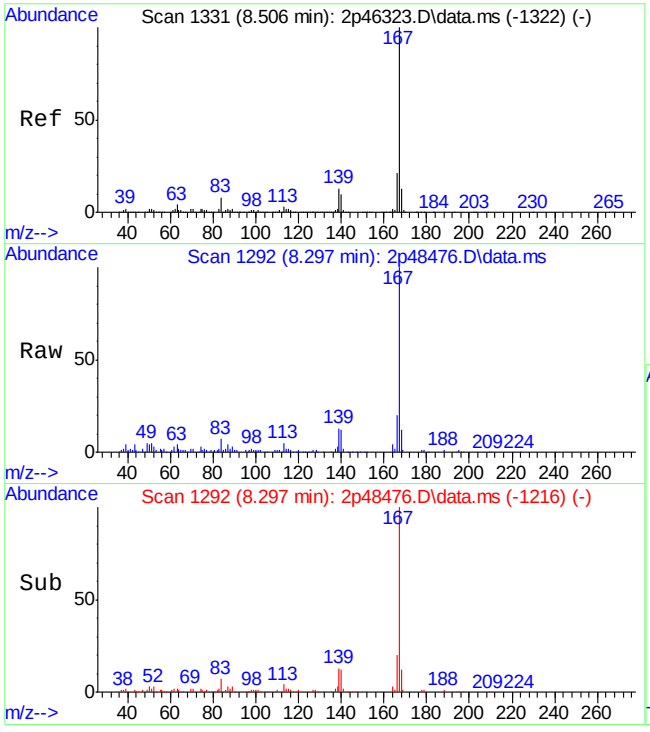


#78
Anthracene
Concen: 3.60 ppm
RT: 8.115 min Scan# 1258
Delta R.T. -0.101 min
Lab File: 2p48476.D
Acq: 11 May 2015 8:44 pm

Tgt Ion:178 Resp: 50875

Ion	Ratio	Lower	Upper
178	100		
179	16.2	0.0	45.2
176	20.7	0.0	48.1

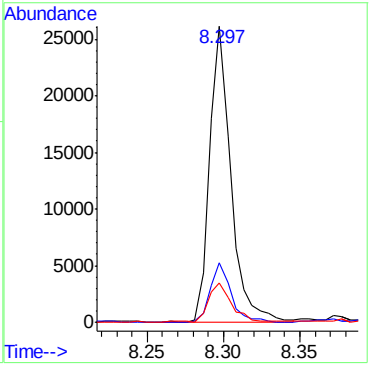


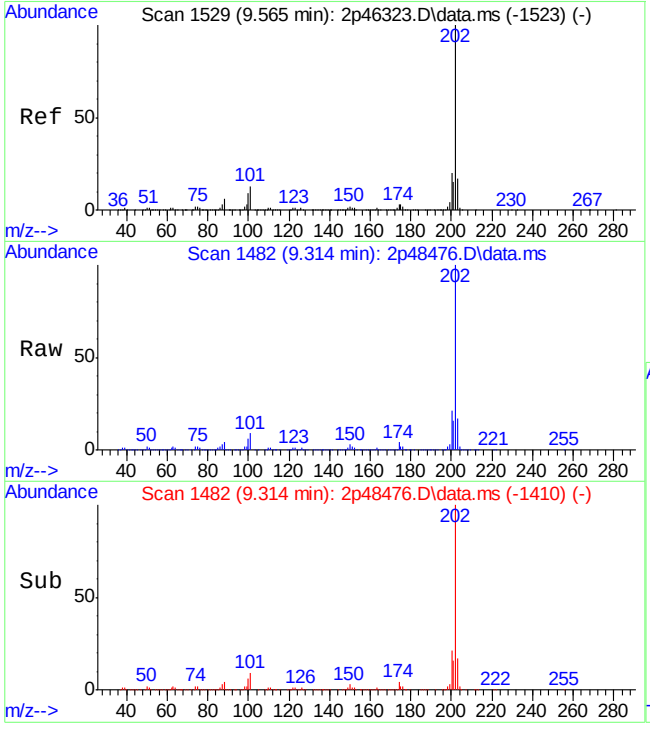


#79
Carbazole
Concen: 1.85 ppm
RT: 8.297 min Scan# 1292
Delta R.T. -0.096 min
Lab File: 2p48476.D
Acq: 11 May 2015 8:44 pm

Tgt Ion:167 Resp: 25307

Ion	Ratio	Lower	Upper
167	100		
166	20.3	0.0	50.6
139	13.0	0.0	41.7

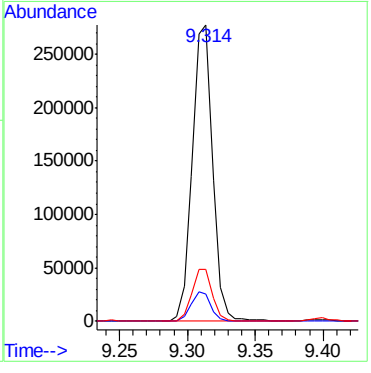




#81
Fluoranthene
Concen: 17.24 ppm
RT: 9.314 min Scan# 1482
Delta R.T. -0.118 min
Lab File: 2p48476.D
Acq: 11 May 2015 8:44 pm

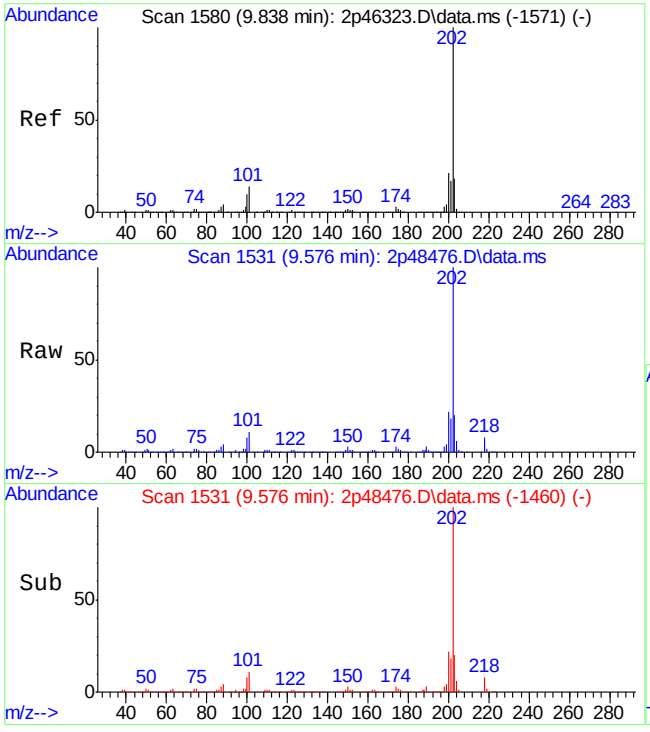
Tgt Ion:202 Resp: 288729

Ion	Ratio	Lower	Upper
202	100		
101	9.3	0.0	43.1
203	17.3	0.0	47.4



9.1.26

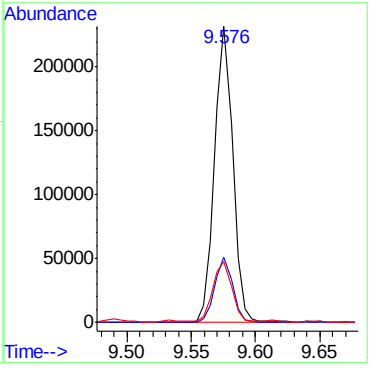
9

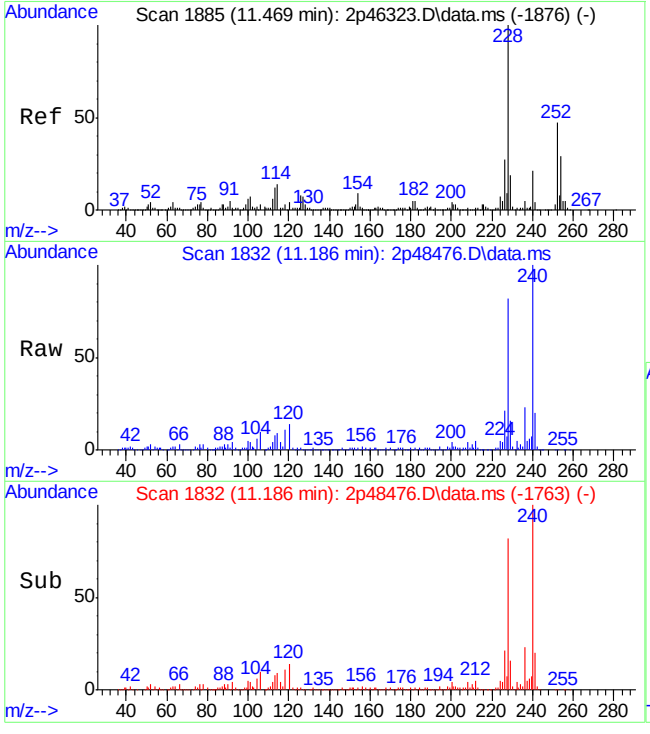


#84
Pyrene
Concen: 15.54 ppm
RT: 9.576 min Scan# 1531
Delta R.T. -0.123 min
Lab File: 2p48476.D
Acq: 11 May 2015 8:44 pm

Tgt Ion:202 Resp: 224975

Ion	Ratio	Lower	Upper
202	100		
200	21.8	0.0	51.0
203	20.1	0.0	47.4

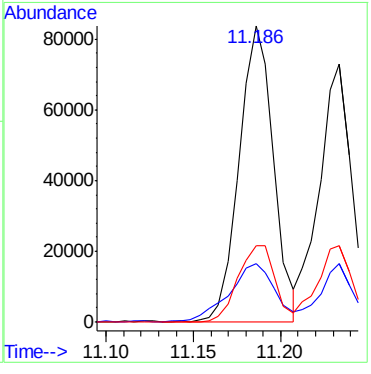


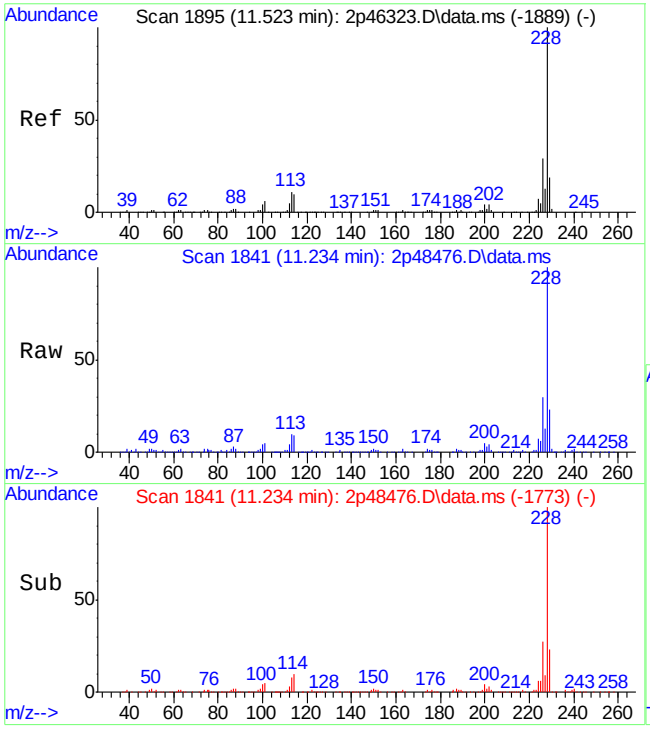


#88
Benzo[a]anthracene
Concen: 8.38 ppm
RT: 11.186 min Scan# 1832
Delta R.T. -0.134 min
Lab File: 2p48476.D
Acq: 11 May 2015 8:44 pm

Tgt Ion:228 Resp: 114799

Ion	Ratio	Lower	Upper
228	100		
229	19.0	0.0	50.1
226	25.5	0.0	57.2

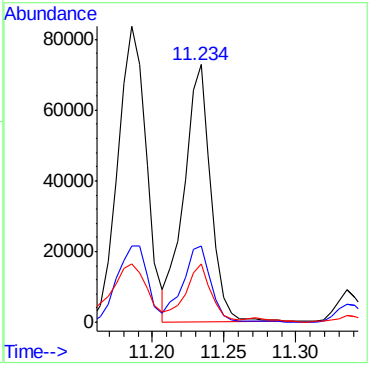


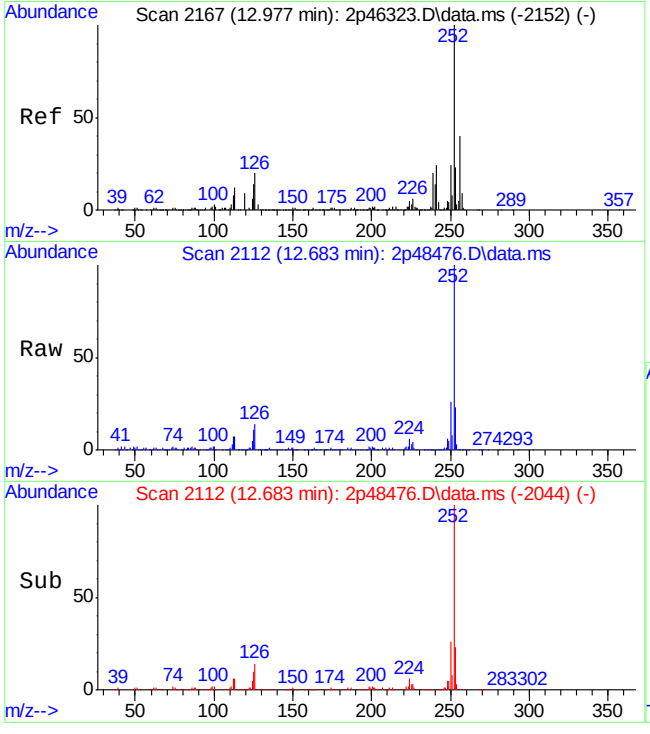


#90
Chrysene
Concen: 7.79 ppm
RT: 11.234 min Scan# 1841
Delta R.T. -0.139 min
Lab File: 2p48476.D
Acq: 11 May 2015 8:44 pm

Tgt Ion:228 Resp: 95310

Ion	Ratio	Lower	Upper
228	100		
226	29.5	0.0	58.8
229	21.7	0.0	49.1

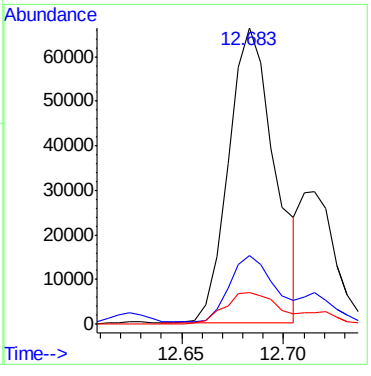




#94
Benzo[b]fluoranthene
Concen: 8.98 ppm
RT: 12.683 min Scan# 2112
Delta R.T. -0.139 min
Lab File: 2p48476.D
Acq: 11 May 2015 8:44 pm

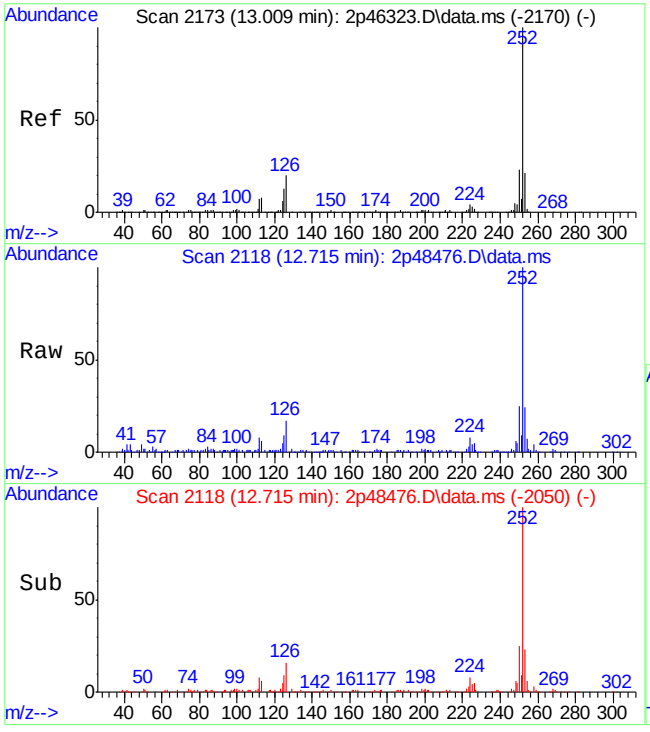
Tgt Ion:252 Resp: 105187

Ion	Ratio	Lower	Upper
252	100		
253	22.9	0.0	52.1
125	11.1	0.0	42.9



9.1.26

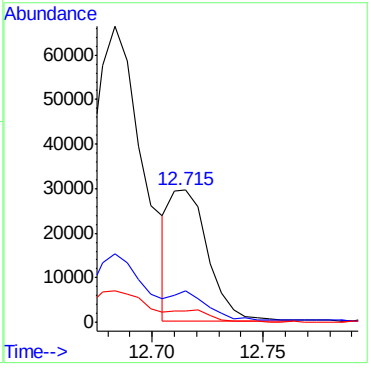
9

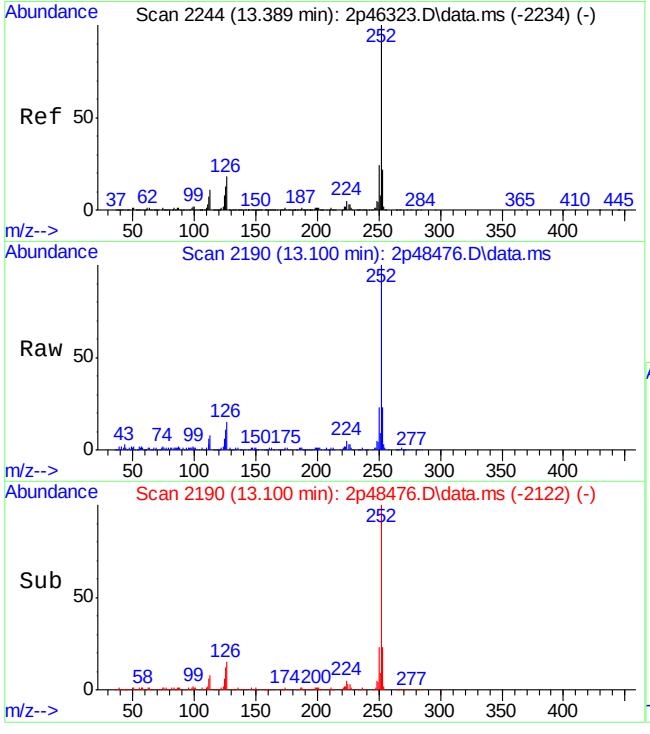


#95
Benzo[k]fluoranthene
Concen: 3.16 ppm
RT: 12.715 min Scan# 2118
Delta R.T. -0.139 min
Lab File: 2p48476.D
Acq: 11 May 2015 8:44 pm

Tgt Ion:252 Resp: 35004

Ion	Ratio	Lower	Upper
252	100		
253	23.2	0.0	51.5
125	8.1	0.0	42.7

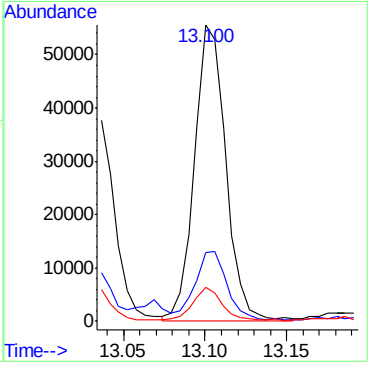




#96
Benzo[a]pyrene
Concen: 7.32 ppm
RT: 13.100 min Scan# 2190
Delta R.T. -0.139 min
Lab File: 2p48476.D
Acq: 11 May 2015 8:44 pm

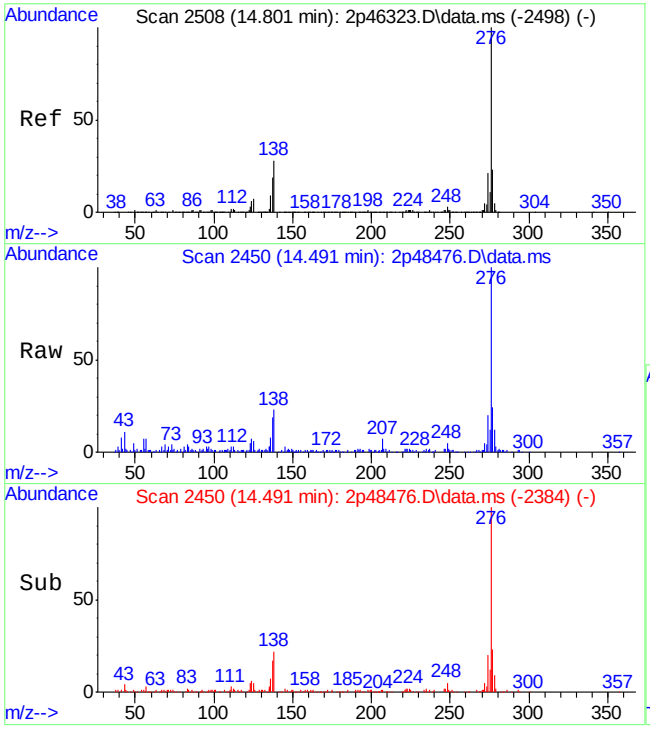
Tgt Ion:252 Resp: 74156

Ion	Ratio	Lower	Upper
252	100		
253	20.9	0.0	51.8
125	11.1	0.0	45.1



9.1.26

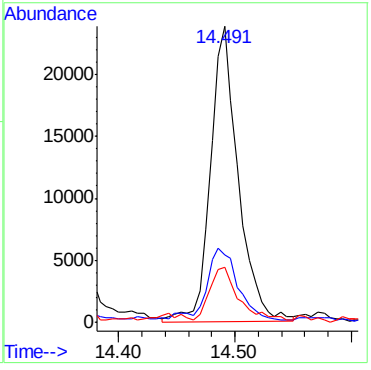
9

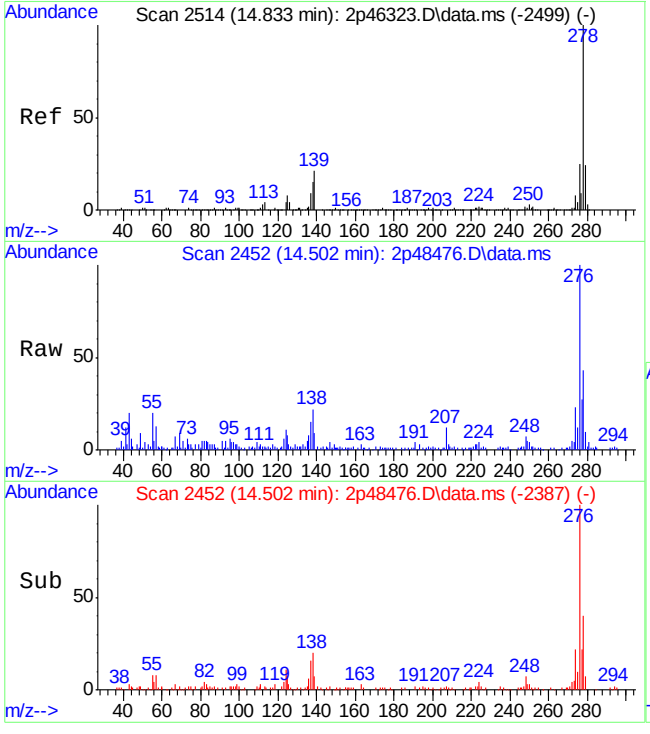


#97
Indeno[1,2,3-cd]pyrene
Concen: 3.41 ppm
RT: 14.491 min Scan# 2450
Delta R.T. -0.150 min
Lab File: 2p48476.D
Acq: 11 May 2015 8:44 pm

Tgt Ion:276 Resp: 39547

Ion	Ratio	Lower	Upper
276	100		
138	21.9	1.0	61.0
137	17.4	0.0	52.7

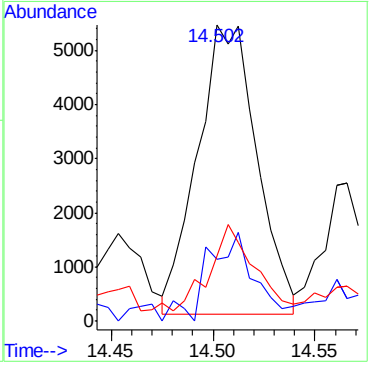


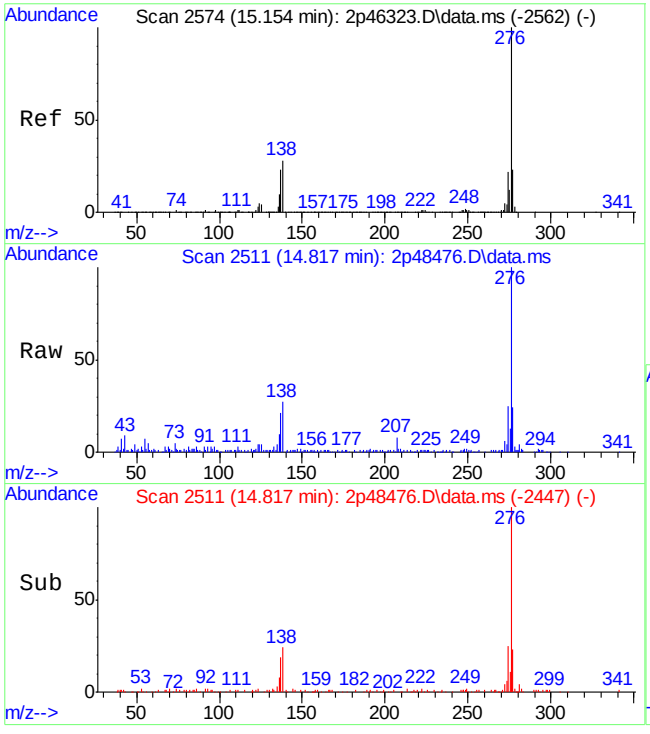


#99
Dibenz[a,h]anthracene
Concen: 1.15 ppm
RT: 14.502 min Scan# 2452
Delta R.T. -0.155 min
Lab File: 2p48476.D
Acq: 11 May 2015 8:44 pm

Tgt Ion:278 Resp: 10831

Ion	Ratio	Lower	Upper
278	100		
139	19.3	0.0	56.2
279	17.8	0.0	54.2

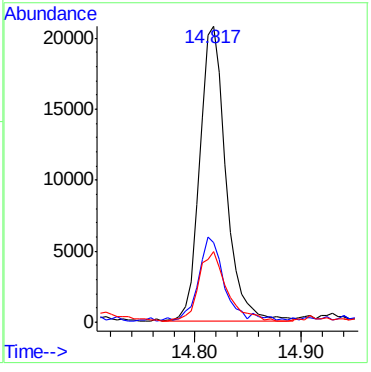




#101
Benzo[g,h,i]perylene
Concen: 3.73 ppm
RT: 14.817 min Scan# 2511
Delta R.T. -0.160 min
Lab File: 2p48476.D
Acq: 11 May 2015 8:44 pm

Tgt Ion:276 Resp: 35704

Ion	Ratio	Lower	Upper
276	100		
138	26.2	3.5	63.5
277	23.6	0.0	53.3



9.1.26

9

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48476.D
Acq On : 11 May 2015 8:44 pm
Operator : sarad
Sample : jb94209-12
Misc : op83787,e2p2069,30.2
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: 2p48476.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.414	3	5	13	rVB3	11898	16578	0.95%	0.087%
2	1.510	18	23	37	rBV	35598	73085	4.18%	0.382%
3	2.671	231	240	244	rVV3	9892	17100	0.98%	0.089%
4	2.735	244	252	260	rVV10	6336	22726	1.30%	0.119%
5	2.815	260	267	272	rVV	18225	28613	1.64%	0.150%
6	2.885	272	280	297	rVV	194002	214676	12.27%	1.123%
7	3.024	297	306	313	rVV2	10806	19189	1.10%	0.100%
8	3.280	350	354	378	rBV	394995	582777	33.31%	3.048%
9	3.703	424	433	451	rBV	67113	130026	7.43%	0.680%
10	3.821	451	455	469	rVV	46625	75991	4.34%	0.397%
11	4.131	508	513	532	rBV2	432643	641707	36.67%	3.357%
12	4.318	542	548	561	rVB	1416657	978434	55.92%	5.118%
13	4.634	597	607	621	rBV3	15854	46073	2.63%	0.241%
14	4.789	629	636	658	rBV	804457	617446	35.29%	3.230%
15	4.981	667	672	684	rVB9	10470	17892	1.02%	0.094%
16	5.372	732	745	766	rBV	1507877	1204116	68.82%	6.299%
17	6.260	906	911	925	rBV	1518984	1229877	70.29%	6.433%
18	6.607	971	976	979	rBV2	14290	13248	0.76%	0.069%
19	6.805	1005	1013	1017	rBV	2017657	1332025	76.13%	6.968%
20	6.832	1017	1018	1026	rVB	86650	49816	2.85%	0.261%
21	6.982	1041	1046	1050	rBV	34905	35318	2.02%	0.185%
22	7.254	1089	1097	1103	rBV2	71288	77280	4.42%	0.404%
23	7.393	1120	1123	1130	rVB2	26778	29711	1.70%	0.155%
24	7.468	1130	1137	1147	rBV	627824	553211	31.62%	2.894%
25	7.581	1156	1158	1167	rVB4	15748	19491	1.11%	0.102%
26	7.848	1198	1208	1212	rBV8	11298	23503	1.34%	0.123%
27	7.886	1212	1215	1219	rVB	17271	14636	0.84%	0.077%
28	7.950	1219	1227	1233	rBV3	28572	46270	2.64%	0.242%
29	8.046	1239	1245	1248	rBV	1841619	1529119	87.39%	7.999%
30	8.067	1248	1249	1253	rVB	693124	358580	20.49%	1.876%
31	8.115	1253	1258	1265	rVB	147172	142715	8.16%	0.747%
32	8.297	1289	1292	1296	rBV	60599	55383	3.17%	0.290%
33	8.538	1331	1337	1340	rBV	40367	38011	2.17%	0.199%
34	8.565	1340	1342	1346	rVB	47733	38751	2.21%	0.203%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48476.D
Acq On : 11 May 2015 8:44 pm
Operator : sarad
Sample : jb94209-12
Misc : op83787,e2p2069,30.2
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

35	8.613	1346	1351	1353	rBV3	16256	16542	0.95%	0.087%
36	8.645	1353	1357	1361	rBV2	124710	126747	7.24%	0.663%
37	8.854	1390	1396	1400	rVV	33023	34193	1.95%	0.179%
38	8.891	1400	1403	1414	rVB3	25862	37529	2.14%	0.196%
39	9.137	1445	1449	1453	rVV5	11599	15490	0.89%	0.081%
40	9.175	1453	1456	1460	rVV5	10431	14003	0.80%	0.073%
41	9.233	1464	1467	1475	rVV2	20751	28998	1.66%	0.152%
42	9.314	1475	1482	1493	rVV	649088	720005	41.15%	3.766%
43	9.399	1493	1498	1505	rVB3	11048	16579	0.95%	0.087%
44	9.485	1505	1514	1522	rBV2	21755	33907	1.94%	0.177%
45	9.576	1522	1531	1536	rVV	607688	626114	35.78%	3.275%
46	9.656	1541	1546	1549	rVV	17063	21508	1.23%	0.113%
47	9.747	1556	1563	1566	rBV	31380	34621	1.98%	0.181%
48	9.800	1566	1573	1579	rVV	1246466	1308711	74.79%	6.846%
49	9.848	1579	1582	1584	rVV	12751	13628	0.78%	0.071%
50	9.875	1584	1587	1593	rVB	19273	28141	1.61%	0.147%
51	9.977	1600	1606	1609	rBV7	16627	27789	1.59%	0.145%
52	10.009	1609	1612	1619	rVB	50102	60559	3.46%	0.317%
53	10.094	1625	1628	1633	rVB2	39226	43619	2.49%	0.228%
54	10.143	1633	1637	1645	rBV4	32487	64666	3.70%	0.338%
55	10.260	1653	1659	1663	rVV2	11972	14645	0.84%	0.077%
56	10.549	1706	1713	1717	rBV10	6477	16475	0.94%	0.086%
57	10.704	1732	1742	1750	rBV	25423	45636	2.61%	0.239%
58	10.838	1762	1767	1770	rBV	33983	46738	2.67%	0.244%
59	10.870	1770	1773	1777	rVV2	29934	44403	2.54%	0.232%
60	10.902	1777	1779	1784	rVV	21556	27508	1.57%	0.144%
61	10.945	1784	1787	1794	rVV4	21953	35094	2.01%	0.184%
62	10.998	1794	1797	1804	rVB	32832	39721	2.27%	0.208%
63	11.079	1804	1812	1817	rBV2	10391	19106	1.09%	0.100%
64	11.196	1821	1834	1838	rBV2	1249452	1749751	100.00%	9.153%
65	11.234	1838	1841	1854	rVV2	204997	300567	17.18%	1.572%
66	11.335	1855	1860	1866	rVB2	50212	60870	3.48%	0.318%
67	11.523	1886	1895	1899	rVV5	18478	41523	2.37%	0.217%
68	11.576	1901	1905	1911	rVV	21594	31524	1.80%	0.165%
69	11.779	1938	1943	1947	rVV2	24885	33423	1.91%	0.175%
70	11.827	1947	1952	1957	rVB3	18797	26183	1.50%	0.137%
71	11.913	1962	1968	1971	rBV7	13481	23033	1.32%	0.120%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48476.D
Acq On : 11 May 2015 8:44 pm
Operator : sarad
Sample : jb94209-12
Misc : op83787,e2p2069,30.2
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

72	11.945	1971	1974	1978	rVV5	12945	18827	1.08%	0.098%
73	12.020	1985	1988	1992	rVB6	10915	13702	0.78%	0.072%
74	12.111	1992	2005	2010	rBV6	13470	35304	2.02%	0.185%
75	12.266	2031	2034	2041	rVB7	10835	19394	1.11%	0.101%
76	12.330	2041	2046	2051	rBV9	12768	22546	1.29%	0.118%
77	12.496	2065	2077	2085	rBV6	26373	61349	3.51%	0.321%
78	12.576	2085	2092	2095	rBV8	8850	17288	0.99%	0.090%
79	12.683	2105	2112	2116	rBV	180958	297650	17.01%	1.557%
80	12.715	2116	2118	2123	rVB	87665	93190	5.33%	0.487%
81	12.817	2129	2137	2142	rVB2	29282	46567	2.66%	0.244%
82	12.961	2157	2164	2170	rBV8	14678	44707	2.56%	0.234%
83	13.036	2170	2178	2182	rVV	109874	152081	8.69%	0.796%
84	13.100	2182	2190	2198	rVV	150825	212066	12.12%	1.109%
85	13.181	2198	2205	2218	rVV	925396	1220619	69.76%	6.385%
86	13.448	2249	2255	2264	rBV	14123	27801	1.59%	0.145%
87	13.534	2264	2271	2275	rBV9	6384	13772	0.79%	0.072%
88	13.651	2286	2293	2298	rBV9	12150	23745	1.36%	0.124%
89	13.737	2302	2309	2322	rVB8	14434	38370	2.19%	0.201%
90	13.881	2323	2336	2343	rBV8	19111	52847	3.02%	0.276%
91	13.940	2343	2347	2351	rBV7	9518	13819	0.79%	0.072%
92	14.154	2381	2387	2393	rBV7	8272	16863	0.96%	0.088%
93	14.368	2419	2427	2433	rVV7	18913	44268	2.53%	0.232%
94	14.491	2444	2450	2461	rVB2	74494	145359	8.31%	0.760%
95	14.630	2471	2476	2480	rBV2	18195	24982	1.43%	0.131%
96	14.673	2480	2484	2488	rBV5	12297	18286	1.05%	0.096%
97	14.812	2505	2510	2522	rVB	58956	102304	5.85%	0.535%
98	14.999	2537	2545	2552	rBV7	25534	56821	3.25%	0.297%
99	16.181	2754	2766	2779	rBV7	26875	84716	4.84%	0.443%
100	16.502	2810	2826	2844	rBV6	20671	95183	5.44%	0.498%

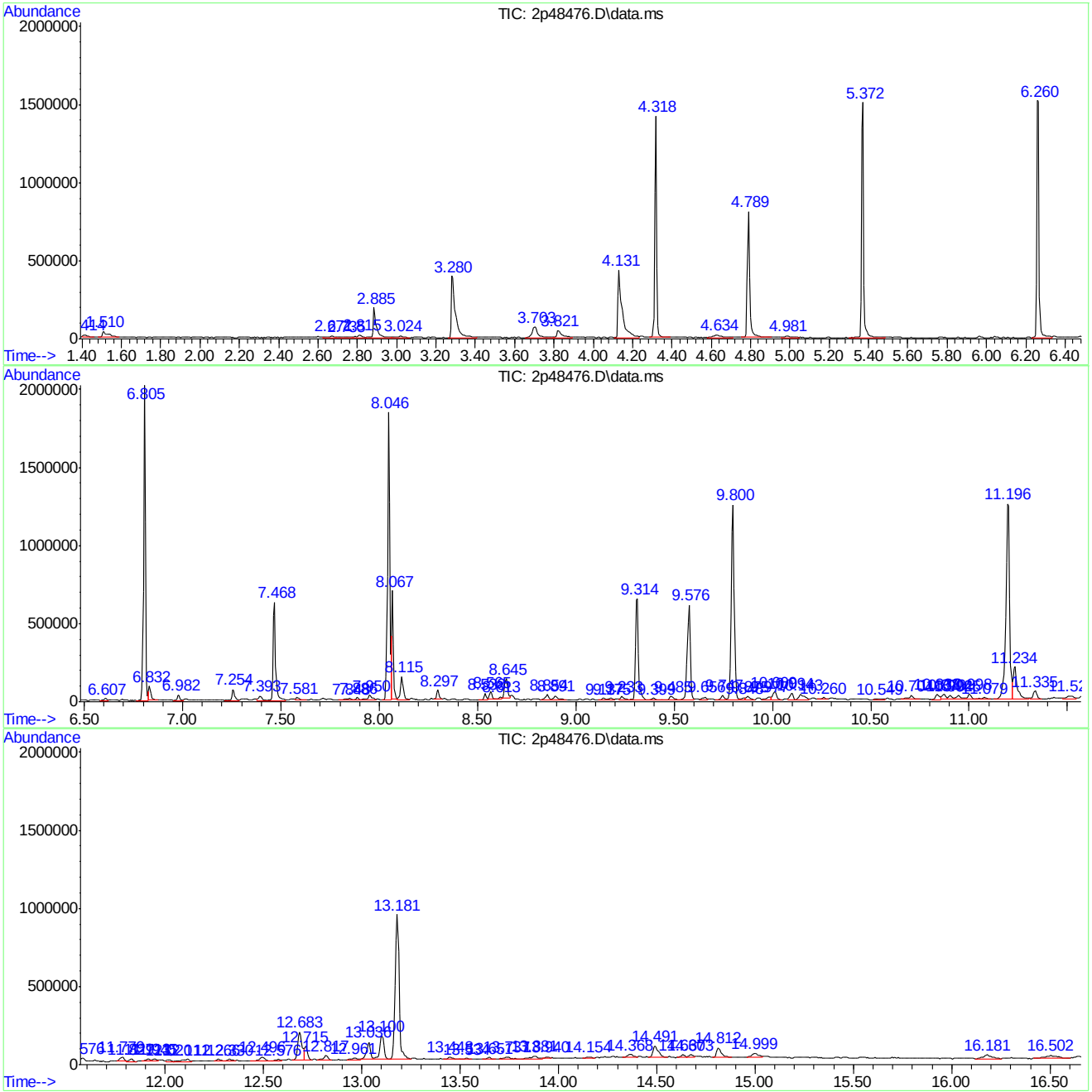
Sum of corrected areas: 19117349

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48476.D
Acq On : 11 May 2015 8:44 pm
Operator : sarad
Sample : jb94209-12
Misc : op83787,e2p2069,30.2
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48476.D
Acq On : 11 May 2015 8:44 pm
Operator : sarad
Sample : jb94209-12
Misc : op83787,e2p2069,30.2
ALS Vial : 10 Sample Multiplier: 1

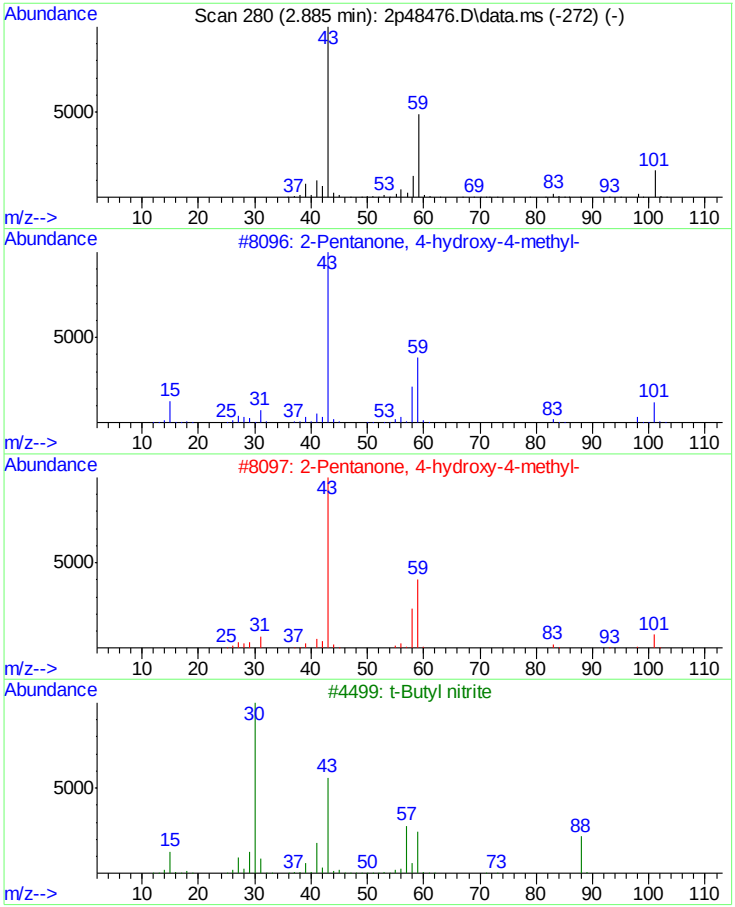
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

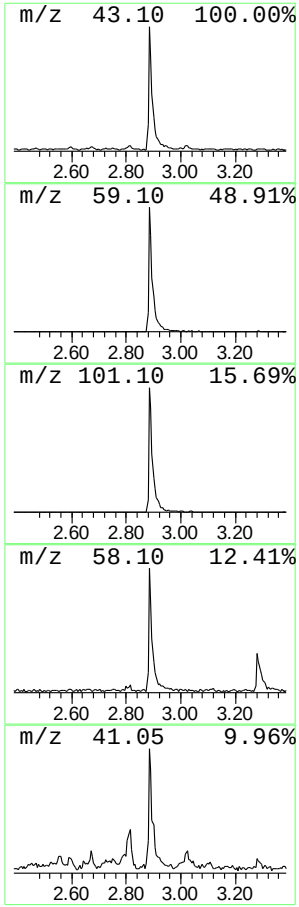
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 1 system artifact/aldol-conde... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.885	8.78 ppm	214676	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	45
3	t-Butyl nitrite	103	C4H9NO2	000540-80-7	39
4	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	25
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48476.D
Acq On : 11 May 2015 8:44 pm
Operator : sarad
Sample : jb94209-12
Misc : op83787,e2p2069,30.2
ALS Vial : 10 Sample Multiplier: 1

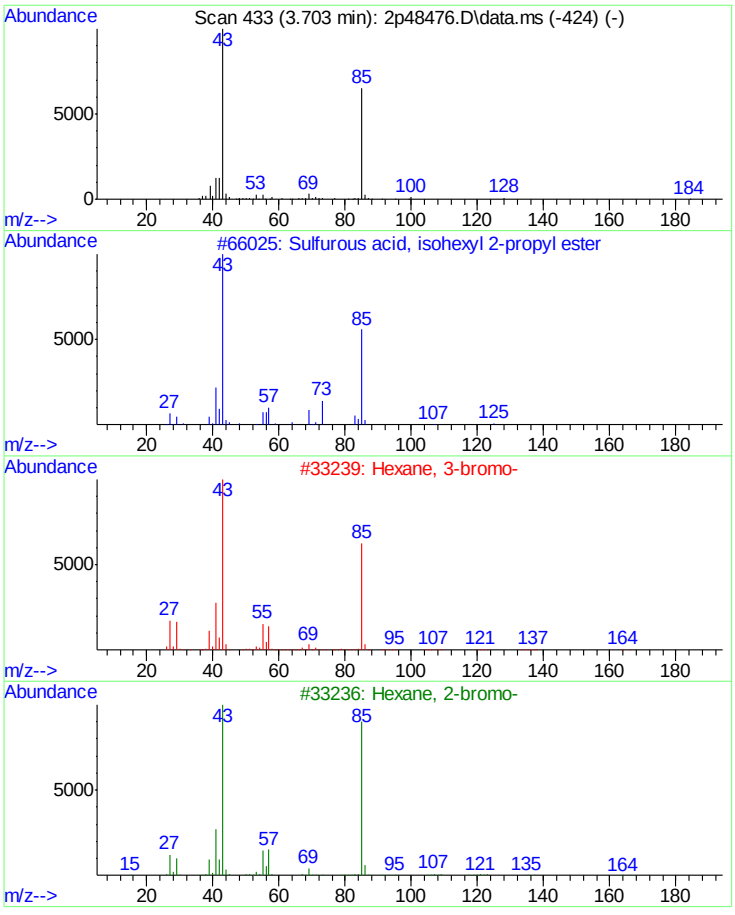
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

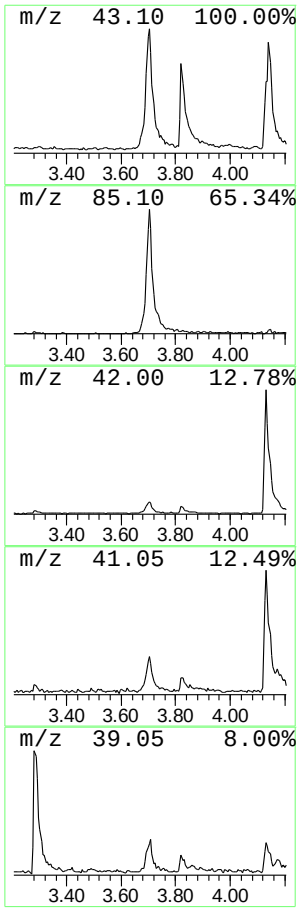
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 2 system artifact Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.703	5.32 ppm	130026	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfurous acid, isohexyl 2-propy...	208	C9H20O3S	1000309-11-6	72
2	Hexane, 3-bromo-	164	C6H13Br	003377-87-5	64
3	Hexane, 2-bromo-	164	C6H13Br	003377-86-4	50
4	Pentanoic acid, 2,4-dioxo-, meth...	144	C6H8O4	020577-61-1	40
5	Hexane, 2-iodo-	212	C6H13I	018589-27-0	39





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48476.D
Acq On : 11 May 2015 8:44 pm
Operator : sarad
Sample : jb94209-12
Misc : op83787,e2p2069,30.2
ALS Vial : 10 Sample Multiplier: 1

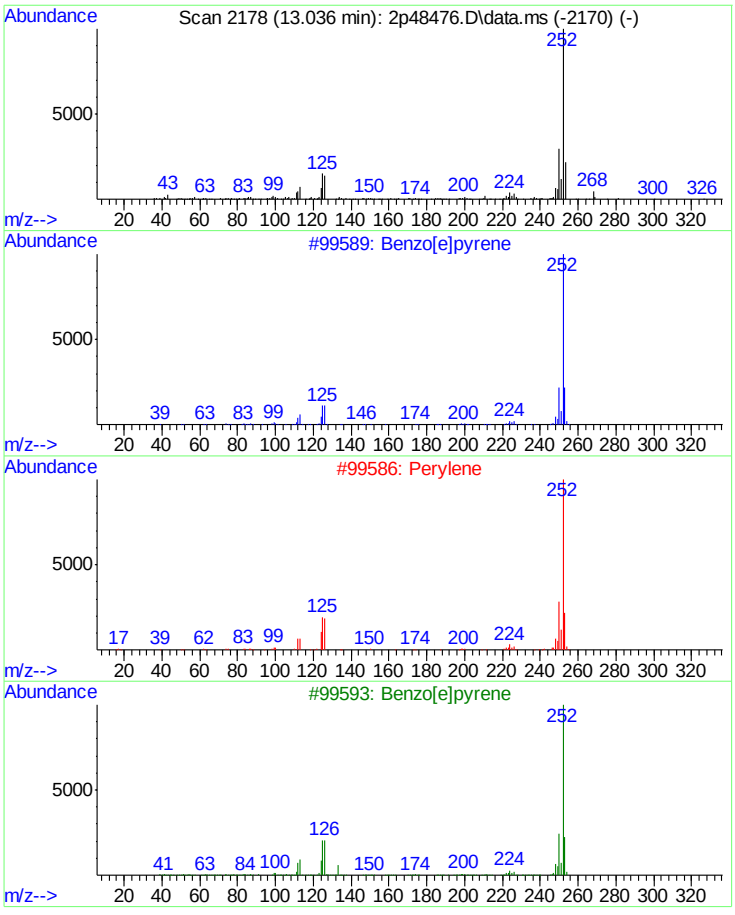
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

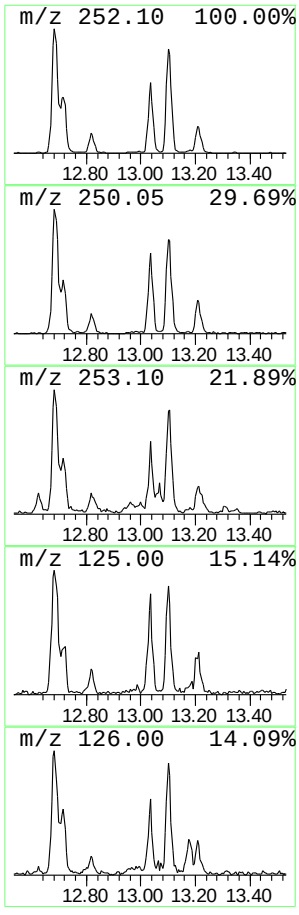
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 3 unknown PAH substance Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.036	4.98 ppm	152081	Perylene-d12	13.181

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Perylene	252	C20H12	000198-55-0	96
3	Benzo[e]pyrene	252	C20H12	000192-97-2	96
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
5	Benzo[a]pyrene	252	C20H12	000050-32-8	95





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48476.D
Acq On : 11 May 2015 8:44 pm
Operator : sarad
Sample : jb94209-12
Misc : op83787,e2p2069,30.2
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
system artifact...	2.885	8.8	ppm	214676	1	4.318	978434	40.0
system artifact	3.703	5.3	ppm	130026	1	4.318	978434	40.0
unknown PAH sub...	13.036	5.0	ppm	152081	10	13.181	1220620	40.0

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4119\P95333.D Vial: 7
Acq On : 9 May 2015 6:07 pm Operator: kristis
Sample : jb94209-13 Inst : MSP
Misc : op83797,ep4119,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 09 18:29:26 2015 Quant Results File: MP4082.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed May 06 14:38:22 2015
Response via : Initial Calibration
DataAcq Meth : MP4082

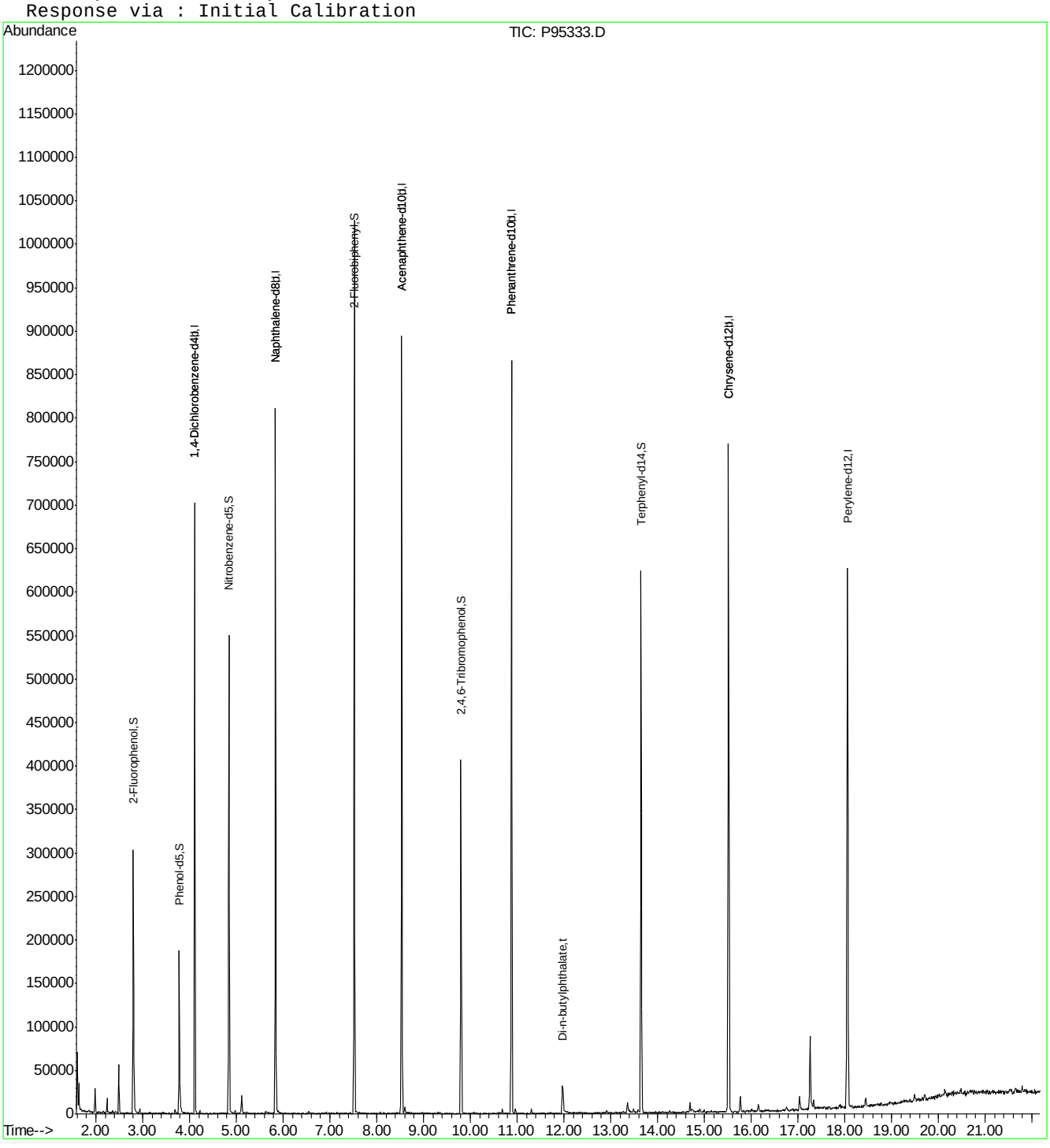
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.11	152	104903	40.00	ppm	-0.04
24) Naphthalene-d8	5.84	136	386538	40.00	ppm	-0.05
47) Acenaphthene-d10	8.54	164	232670	40.00	ppm	-0.05
69) Phenanthrene-d10	10.88	188	383875	40.00	ppm	-0.05
83) Chrysene-d12	15.52	240	374400	40.00	ppm	-0.06
92) Perylene-d12	18.06	264	327228	40.00	ppm	-0.06
102) 1,4-Dichlorobenzene-d4b	4.11	152	104903	40.00	ppm	-0.04
104) Phenanthrene-d10b	10.88	188	383875	40.00	ppm	-0.05
106) Chrysene-d12b	15.52	240	374400	40.00	ppm	-0.06
108) Naphthalene-d8b	5.84	136	386538	40.00	ppm	-0.05
110) Acenaphthene-d10b	8.54	164	232670	40.00	ppm	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	2.80	112	91158	21.92	ppm	-0.04
Spiked Amount 50.000			Recovery = 43.84%			
8) Phenol-d5	3.78	99	76706	14.94	ppm	-0.04
Spiked Amount 50.000			Recovery = 29.88%			
25) Nitrobenzene-d5	4.84	82	199622	48.70	ppm	-0.04
Spiked Amount 50.000			Recovery = 97.40%			
51) 2-Fluorobiphenyl	7.52	172	346695	45.06	ppm	-0.05
Spiked Amount 50.000			Recovery = 90.12%			
73) 2,4,6-Tribromophenol	9.81	330	49011	51.09	ppm	-0.05
Spiked Amount 50.000			Recovery = 102.18%			
85) Terphenyl-d14	13.65	244	262456	34.20	ppm	-0.05
Spiked Amount 50.000			Recovery = 68.40%			
Target Compounds						Qvalue
80) Di-n-butylphthalate	11.97	149	17449	1.37	ppm	97

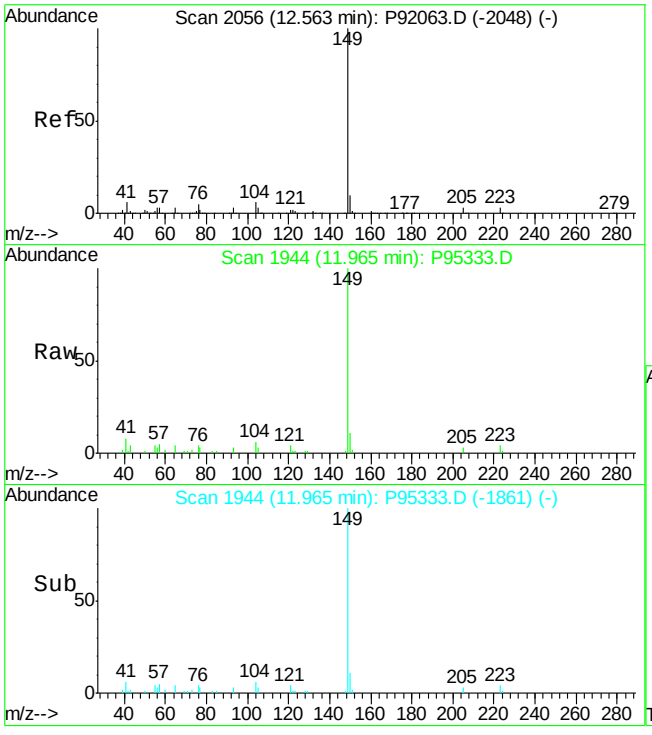
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4119\P95333.D Vial: 7
Acq On : 9 May 2015 6:07 pm Operator: kristis
Sample : jb94209-13 Inst : MSP
Misc : op83797,ep4119,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 10 12:05 2015 Quant Results File: MP4082.RES

Method : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed May 06 14:38:22 2015
Response via : Initial Calibration

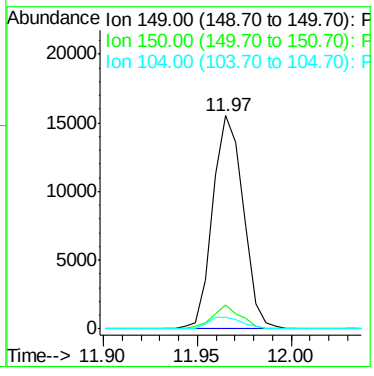




#80
Di-n-butylphthalate
Concen: 1.37 ppm
RT: 11.97 min Scan# 1944
Delta R.T. -0.06 min
Lab File: P95333.D
Acq: 9 May 2015 6:07 pm

Tgt Ion:149 Resp: 17449

Ion	Ratio	Lower	Upper
149	100		
150	11.0	0.0	39.3
104	5.6	0.0	35.4



9.1.28

9

LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\EP4119\P95333.D Vial: 7
Acq On : 9 May 2015 6:07 pm Operator: kristis
Sample : jb94209-13 Inst : MSP
Misc : op83797,ep4119,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.146	102	106	111	rBV4	2095	2903	0.27%	0.029%
2	2.199	114	116	119	rBV2	1747	1838	0.17%	0.018%
3	2.237	119	123	127	rBV	17599	14858	1.38%	0.148%
4	2.354	141	145	149	rVB2	3249	3272	0.30%	0.033%
5	2.418	154	157	161	rBV2	2721	2785	0.26%	0.028%
6	2.488	166	170	183	rVB	56452	50443	4.69%	0.502%
7	2.798	220	228	243	rBV	303762	314549	29.23%	3.130%
8	2.937	249	254	261	rVB2	5417	7172	0.67%	0.071%
9	3.417	337	344	347	rBV2	1503	1924	0.18%	0.019%
10	3.562	364	371	377	rVB3	1159	2658	0.25%	0.026%
11	3.620	377	382	386	rBV3	1114	1841	0.17%	0.018%
12	3.690	392	395	400	rVB2	4974	5428	0.50%	0.054%
13	3.781	407	412	427	rBV	187518	212600	19.75%	2.116%
14	3.962	440	446	449	rVB2	1456	1968	0.18%	0.020%
15	4.112	467	474	486	rVB	702898	643167	59.76%	6.400%
16	4.219	486	494	499	rVB2	3877	4008	0.37%	0.040%
17	4.844	599	611	630	rBV	549699	560440	52.07%	5.577%
18	4.972	630	635	641	rVB4	3357	3943	0.37%	0.039%
19	5.116	655	662	668	rBV	21386	25691	2.39%	0.256%
20	5.223	675	682	686	rVB2	2032	3700	0.34%	0.037%
21	5.629	746	758	767	rBV4	2824	7060	0.66%	0.070%
22	5.795	786	789	792	rBV	1485	1771	0.16%	0.018%
23	5.837	792	797	806	rVV	811674	825300	76.68%	8.212%
24	5.896	806	808	816	rVB3	3099	4729	0.44%	0.047%
25	6.548	924	930	937	rBV2	2630	4171	0.39%	0.042%
26	6.927	994	1001	1005	rBV3	2001	4223	0.39%	0.042%
27	7.146	1036	1042	1044	rVB2	1553	2106	0.20%	0.021%
28	7.339	1076	1078	1085	rVB2	1379	1718	0.16%	0.017%
29	7.520	1105	1112	1118	rBV	1028057	1032420	95.93%	10.273%
30	8.071	1211	1215	1221	rBV2	1524	1810	0.17%	0.018%
31	8.391	1269	1275	1282	rVB	1188	3100	0.29%	0.031%
32	8.439	1282	1284	1288	rBV	1616	1772	0.16%	0.018%
33	8.535	1295	1302	1309	rBV	895044	977375	90.81%	9.726%
34	8.599	1309	1314	1319	rVB2	7356	9115	0.85%	0.091%
35	8.674	1327	1328	1335	rVB	1745	2265	0.21%	0.023%
36	8.979	1377	1385	1389	rBV	1735	2945	0.27%	0.029%
37	9.086	1398	1405	1408	rVB	1297	1913	0.18%	0.019%
38	9.118	1408	1411	1421	rBV	1232	1846	0.17%	0.018%

39	9.305	1443	1446	1451	rBV2	2249	3001	0.28%	0.030%
40	9.353	1451	1455	1462	rVB	1467	2042	0.19%	0.020%
41	9.801	1530	1539	1548	rBV2	406766	475196	44.15%	4.729%
42	10.079	1585	1591	1594	rVB2	1868	2064	0.19%	0.021%
43	10.571	1679	1683	1686	rBV	1502	2063	0.19%	0.021%
44	10.683	1701	1704	1712	rVB2	5112	4893	0.45%	0.049%
45	10.881	1731	1741	1750	rBV2	866472	1021539	94.92%	10.165%
46	10.961	1753	1756	1761	rVV2	6241	7089	0.66%	0.071%
47	11.014	1761	1766	1772	rVB	1220	2219	0.21%	0.022%
48	11.201	1797	1801	1808	rVB	924	1963	0.18%	0.020%
49	11.303	1814	1820	1828	rBV	5455	7856	0.73%	0.078%
50	11.484	1850	1854	1859	rVB	1123	1720	0.16%	0.017%
51	11.970	1937	1945	1957	rBV2	31774	68072	6.32%	0.677%
52	12.077	1961	1965	1969	rVV4	2249	3812	0.35%	0.038%
53	12.115	1969	1972	1976	rVB	1877	2211	0.21%	0.022%
54	12.232	1989	1994	1999	rVB3	1354	2032	0.19%	0.020%
55	12.318	2005	2010	2012	rBV	1831	1977	0.18%	0.020%
56	12.371	2017	2020	2025	rVB2	1353	1863	0.17%	0.019%
57	12.670	2069	2076	2078	rBV2	2008	2285	0.21%	0.023%
58	12.766	2090	2094	2097	rVB3	1913	2143	0.20%	0.021%
59	12.884	2110	2116	2119	rVV4	1728	3556	0.33%	0.035%
60	12.911	2119	2121	2129	rVB2	3475	4276	0.40%	0.043%
61	13.135	2152	2163	2165	rVB2	1157	2875	0.27%	0.029%
62	13.269	2182	2188	2192	rVB3	1407	2149	0.20%	0.021%
63	13.359	2198	2205	2210	rBV3	12264	19832	1.84%	0.197%
64	13.391	2210	2211	2217	rVV4	3353	4067	0.38%	0.040%
65	13.434	2217	2219	2224	rVV3	1697	2022	0.19%	0.020%
66	13.482	2224	2228	2234	rVV5	4195	5761	0.54%	0.057%
67	13.584	2239	2247	2251	rVV3	3721	6255	0.58%	0.062%
68	13.648	2251	2259	2273	rVB2	623809	800918	74.42%	7.970%
69	13.824	2285	2292	2295	rBV3	1548	3095	0.29%	0.031%
70	13.926	2306	2311	2314	rBV	1498	1867	0.17%	0.019%
71	14.043	2327	2333	2335	rBV3	2099	3198	0.30%	0.032%
72	14.118	2341	2347	2349	rVB3	1958	2135	0.20%	0.021%
73	14.257	2369	2373	2378	rVB2	2651	3945	0.37%	0.039%
74	14.353	2390	2391	2395	rBV2	1512	1926	0.18%	0.019%
75	14.615	2437	2440	2444	rBV4	2392	2888	0.27%	0.029%
76	14.690	2450	2454	2459	rBV3	11361	15288	1.42%	0.152%
77	14.738	2459	2463	2466	rVV5	3328	5900	0.55%	0.059%
78	14.764	2466	2468	2471	rVB3	1951	1810	0.17%	0.018%
79	14.850	2478	2484	2485	rBV5	1985	2582	0.24%	0.026%
80	14.903	2489	2494	2500	rVV4	4596	7702	0.72%	0.077%
81	14.994	2503	2511	2518	rVB4	3399	4407	0.41%	0.044%
82	15.154	2539	2541	2546	rVB3	2794	1785	0.17%	0.018%
83	15.245	2555	2558	2561	rVB3	1984	1921	0.18%	0.019%
84	15.288	2561	2566	2570	rVB5	2261	3353	0.31%	0.033%
85	15.320	2570	2572	2576	rBV3	1674	2640	0.25%	0.026%
86	15.518	2599	2609	2622	rVB	768768	1076258	100.00%	10.710%
87	15.667	2627	2637	2641	rVB4	1958	5268	0.49%	0.052%
88	15.769	2646	2656	2666	rBV2	18496	29816	2.77%	0.297%
89	15.849	2670	2671	2676	rVB3	2423	2351	0.22%	0.023%
90	15.886	2676	2678	2679	rBV2	2372	2072	0.19%	0.021%
91	16.009	2694	2701	2706	rBV7	2864	4587	0.43%	0.046%
92	16.111	2716	2720	2722	rBV2	2170	2312	0.21%	0.023%
93	16.153	2722	2728	2733	rVV7	8961	13035	1.21%	0.130%
94	16.228	2736	2742	2743	rVB2	2405	3559	0.33%	0.035%
95	16.255	2743	2747	2749	rBV3	2168	2884	0.27%	0.029%

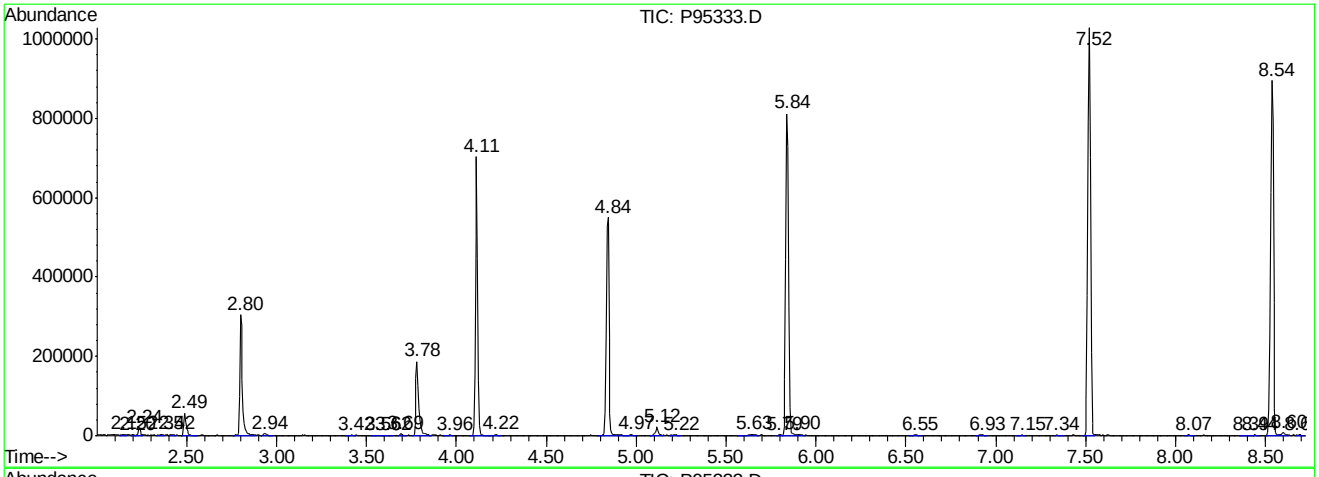
96	16.298	2749	2755	2757	rBV6	2690	3587	0.33%	0.036%
97	16.324	2757	2760	2762	rVB4	1946	1942	0.18%	0.019%
98	16.351	2762	2765	2768	rBV2	2844	3173	0.29%	0.032%
99	16.559	2800	2804	2807	rBV3	2516	3194	0.30%	0.032%
100	16.591	2807	2810	2812	rBV2	1687	1935	0.18%	0.019%
101	16.757	2832	2841	2847	rBV8	4619	10351	0.96%	0.103%
102	16.848	2853	2858	2859	rBV3	1890	2828	0.26%	0.028%
103	16.885	2862	2865	2870	rVB4	3663	5796	0.54%	0.058%
104	16.917	2870	2871	2873	rBV2	2483	1745	0.16%	0.017%
105	17.035	2887	2893	2900	rBV6	17150	30235	2.81%	0.301%
106	17.126	2907	2910	2914	rBV5	1997	3315	0.31%	0.033%
107	17.200	2921	2924	2926	rVB2	2845	1968	0.18%	0.020%
108	17.259	2926	2935	2945	rBV2	84851	132881	12.35%	1.322%
109	17.334	2945	2949	2957	rVB6	10262	14897	1.38%	0.148%
110	17.382	2957	2958	2963	rBV4	2597	2568	0.24%	0.026%
111	17.473	2972	2975	2977	rVB4	1789	1787	0.17%	0.018%
112	17.510	2977	2982	2985	rBV5	1778	2794	0.26%	0.028%
113	17.553	2989	2990	2996	rVB5	2677	3630	0.34%	0.036%
114	17.612	3000	3001	3007	rVB5	2903	3780	0.35%	0.038%
115	17.671	3007	3012	3014	rBV4	2597	4149	0.39%	0.041%
116	17.703	3017	3018	3020	rBV2	2852	1756	0.16%	0.017%
117	17.740	3022	3025	3028	rBV4	1721	1872	0.17%	0.019%
118	17.804	3034	3037	3040	rVB4	3610	3549	0.33%	0.035%
119	17.831	3040	3042	3045	rBV4	3249	3633	0.34%	0.036%
120	17.895	3048	3054	3055	rVV3	4437	6179	0.57%	0.061%
121	17.948	3059	3064	3066	rVB5	1842	2502	0.23%	0.025%
122	18.002	3072	3074	3077	rVB3	3197	2108	0.20%	0.021%
123	18.061	3077	3085	3093	rBV2	621262	983223	91.36%	9.784%
124	18.151	3099	3102	3106	rVB5	3237	3757	0.35%	0.037%
125	18.210	3110	3113	3115	rBV3	2946	2817	0.26%	0.028%
126	18.232	3115	3117	3120	rBV3	2350	2083	0.19%	0.021%
127	18.285	3125	3127	3132	rBV6	1631	2294	0.21%	0.023%
128	18.354	3135	3140	3142	rVB3	2483	2444	0.23%	0.024%
129	18.381	3142	3145	3148	rVB5	1598	1917	0.18%	0.019%
130	18.445	3148	3157	3165	rBV10	11519	24117	2.24%	0.240%
131	18.547	3173	3176	3178	rBV4	2525	2125	0.20%	0.021%
132	18.696	3198	3204	3206	rBV5	2093	2116	0.20%	0.021%
133	18.782	3217	3220	3227	rVB6	4022	4809	0.45%	0.048%
134	18.857	3231	3234	3238	rBV6	1920	3369	0.31%	0.034%
135	18.910	3243	3244	3246	rBV2	2868	2105	0.20%	0.021%
136	18.947	3249	3251	3252	rBV2	2671	1977	0.18%	0.020%
137	18.969	3254	3255	3262	rVB6	3119	3744	0.35%	0.037%
138	19.060	3268	3272	3273	rBV3	2937	3515	0.33%	0.035%
139	19.081	3273	3276	3277	rVB3	2914	2124	0.20%	0.021%
140	19.140	3284	3287	3292	rBV7	1671	2021	0.19%	0.020%
141	19.209	3298	3300	3302	rBV3	2398	1777	0.17%	0.018%
142	19.268	3306	3311	3312	rBV4	3340	3942	0.37%	0.039%
143	19.289	3312	3315	3317	rVV3	3112	2923	0.27%	0.029%
144	19.327	3319	3322	3326	rVV6	2854	3165	0.29%	0.031%
145	19.375	3326	3331	3332	rVV5	1533	2408	0.22%	0.024%
146	19.401	3334	3336	3338	rVB3	3468	2057	0.19%	0.020%
147	19.492	3345	3353	3359	rBV3	9007	18653	1.73%	0.186%
148	19.535	3359	3361	3362	rBV2	2938	2406	0.22%	0.024%
149	19.583	3368	3370	3372	rVB3	3312	2145	0.20%	0.021%
150	19.653	3380	3383	3386	rBV5	3940	3500	0.33%	0.035%
151	19.711	3386	3394	3400	rVB5	7500	15531	1.44%	0.155%

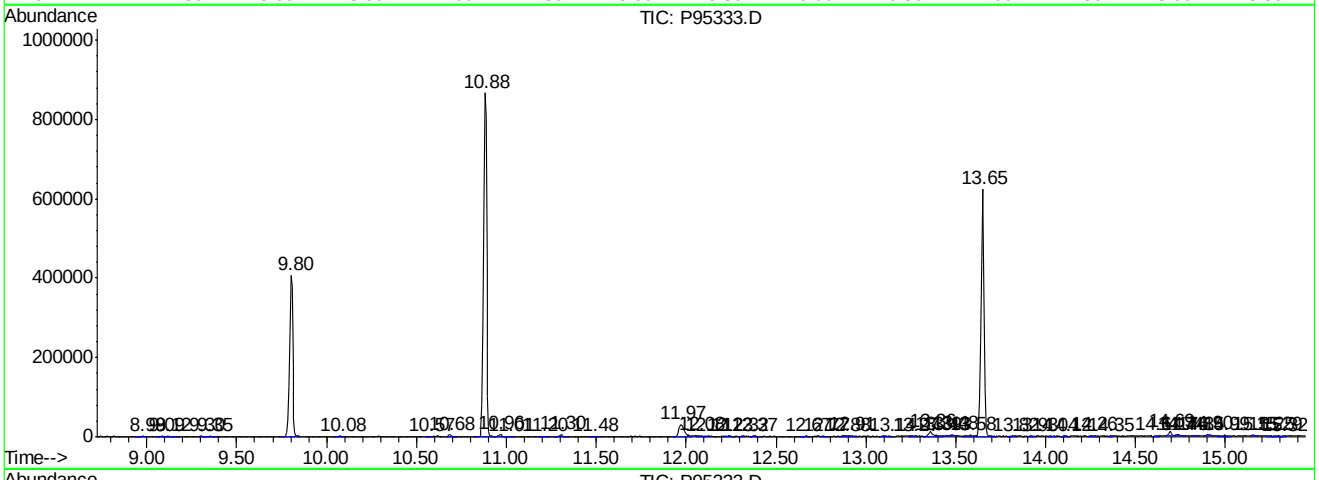
152	19.759	3400	3403	3405	rBV4	3685	4191	0.39%	0.042%
153	19.802	3409	3411	3415	rBV5	3311	3469	0.32%	0.035%
154	19.850	3417	3420	3423	rVB5	2749	2464	0.23%	0.025%
155	19.877	3423	3425	3429	rBV5	3734	3299	0.31%	0.033%
156	19.909	3429	3431	3432	rVB2	3544	1905	0.18%	0.019%
157	19.930	3432	3435	3436	rBV2	3928	3212	0.30%	0.032%
158	19.984	3443	3445	3446	rVB2	4330	2096	0.19%	0.021%
159	20.005	3446	3449	3452	rBV4	3705	5653	0.53%	0.056%
160	20.080	3457	3463	3465	rVV7	3604	4520	0.42%	0.045%
161	20.139	3465	3474	3480	rVV6	8281	18127	1.68%	0.180%
162	20.197	3484	3485	3488	rBV3	4133	2939	0.27%	0.029%
163	20.219	3488	3489	3491	rBV2	3664	2356	0.22%	0.023%
164	20.251	3491	3495	3498	rVV6	2859	3720	0.35%	0.037%
165	20.288	3499	3502	3504	rVV4	4189	4466	0.41%	0.044%
166	20.315	3504	3507	3509	rVB4	7098	6712	0.62%	0.067%
167	20.331	3509	3510	3513	rBV3	4157	4784	0.44%	0.048%
168	20.358	3513	3515	3517	rVV3	2657	1901	0.18%	0.019%
169	20.395	3520	3522	3526	rBV5	2977	4127	0.38%	0.041%
170	20.454	3531	3533	3534	rVV2	6088	4254	0.40%	0.042%
171	20.486	3534	3539	3548	rVV2	9293	22758	2.11%	0.226%
172	20.545	3548	3550	3552	rVV2	4912	4694	0.44%	0.047%
173	20.561	3552	3553	3556	rVB3	6154	4290	0.40%	0.043%
174	20.630	3562	3566	3568	rBV5	3851	4840	0.45%	0.048%
175	20.673	3568	3574	3577	rBV8	4578	7172	0.67%	0.071%
176	20.764	3589	3591	3596	rBV6	4305	6215	0.58%	0.062%
177	20.812	3597	3600	3603	rVB4	4188	4953	0.46%	0.049%
178	20.865	3603	3610	3611	rBV7	4270	7299	0.68%	0.073%
179	20.961	3625	3628	3633	rBV6	4157	7116	0.66%	0.071%
180	21.042	3640	3643	3646	rVB4	5474	6180	0.57%	0.061%
181	21.074	3648	3649	3652	rBV3	4280	3589	0.33%	0.036%
182	21.100	3652	3654	3657	rVB4	4436	3411	0.32%	0.034%
183	21.122	3657	3658	3660	rBV	3096	2630	0.24%	0.026%
184	21.164	3661	3666	3668	rVV6	4593	6865	0.64%	0.068%
185	21.186	3668	3670	3676	rVB7	3519	6066	0.56%	0.060%
186	21.287	3688	3689	3691	rBV2	3562	2167	0.20%	0.022%
187	21.399	3709	3710	3712	rVB2	3504	1797	0.17%	0.018%
188	21.437	3712	3717	3719	rBV6	3394	4225	0.39%	0.042%
189	21.464	3719	3722	3726	rBV6	2458	2541	0.24%	0.025%
190	21.522	3726	3733	3734	rBV7	4397	5512	0.51%	0.055%
191	21.602	3744	3748	3750	rBV5	3542	4770	0.44%	0.047%
192	21.645	3750	3756	3761	rVV10	6586	14276	1.33%	0.142%
193	21.731	3768	3772	3774	rBV5	2965	3043	0.28%	0.030%
194	21.795	3779	3784	3788	rBV8	7648	12143	1.13%	0.121%
195	21.880	3799	3800	3803	rVB3	5021	2509	0.23%	0.025%
196	21.902	3803	3804	3809	rBV5	3360	5141	0.48%	0.051%
197	21.966	3814	3816	3818	rBV3	2495	2218	0.21%	0.022%
198	22.057	3831	3833	3836	rVB4	6210	5424	0.50%	0.054%
199	22.078	3836	3837	3840	rBV3	4957	4092	0.38%	0.041%
200	22.115	3842	3844	3847	rBV4	2696	3032	0.28%	0.030%

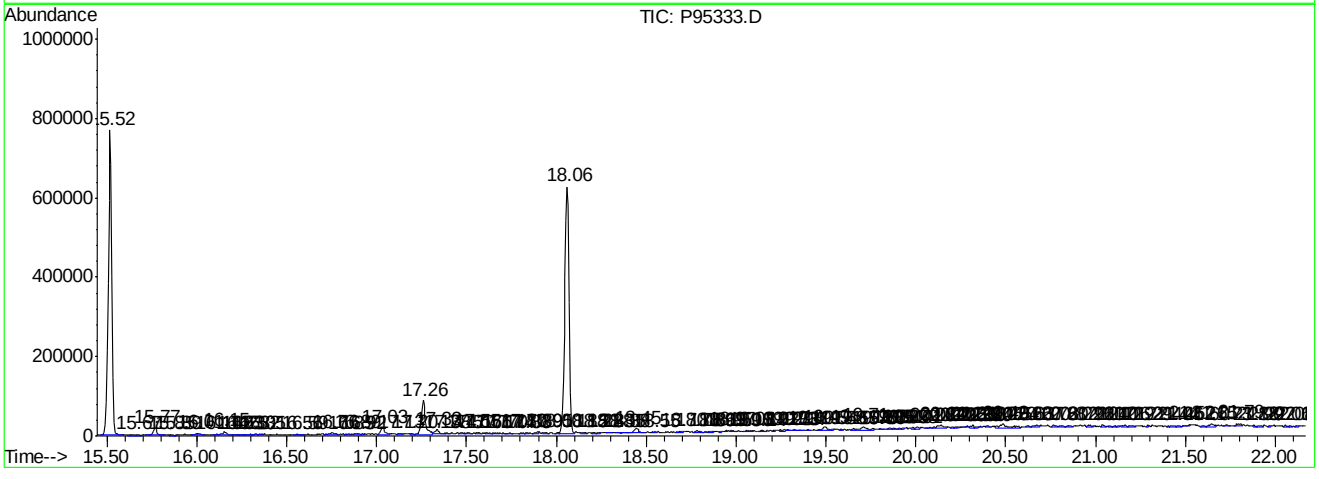
Sum of corrected areas: 10049543

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\EP4119\P95333.D
Operator : kristis
Acquired : 9 May 2015 6:07 pm using AcqMethod MP4082
Instrument : MSP
Sample Name: jb94209-13
Misc Info : op83797,ep4119,1000,,,1,1
Vial Number: 7
Quant File :MP4082.RES (RTE Integrator)







Library Search Compound Report

```
Data File : C:\MSDCHEM\1\DATA\EP4119\P95333.D            Vial: 7
Acq On    :  9 May 2015   6:07 pm                    Operator: kristis
Sample    : jb94209-13                               Inst    : MSP
Misc      : op83797,ep4119,1000,,,1,1                Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Library      : C:\DATABASE\NIST08.L
 ******************************************************************
 Peak Number  1  unknown                          Concentration Rank  1

   R.T.   EstConc           Area       Relative to ISTD         R.T.
 ------------------------------------------------------------------
  17.26    5.41 ppm        132881    Perylene-d12                18.06

  Hit# of  5    Tentative ID              MW  MolForm       CAS#       Qual
 ------------------------------------------------------------------------
  1 9-Octadecenamide, (Z)-                281 C18H35NO      000301-02-0 87
  2 13-Docosenamide, (Z)-                 337 C22H43NO      000112-84-5 80
  3 Tetradecanamide                       227 C14H29NO      000638-58-4 50
  4 Octadecanamide                        283 C18H37NO      000124-26-5 47
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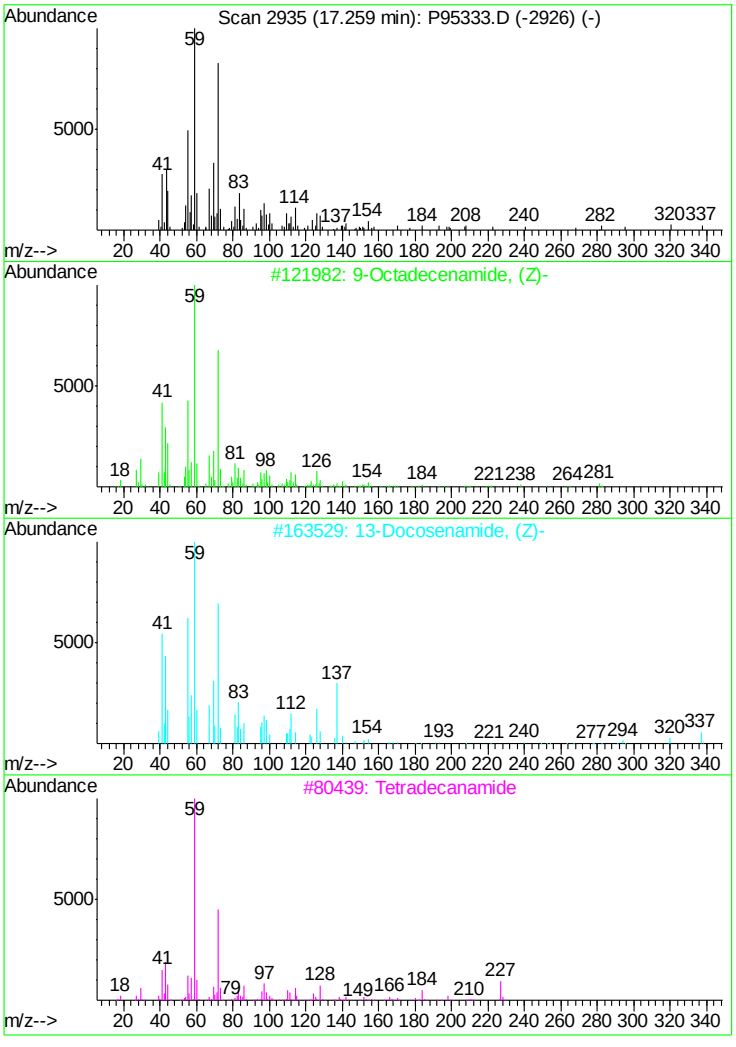
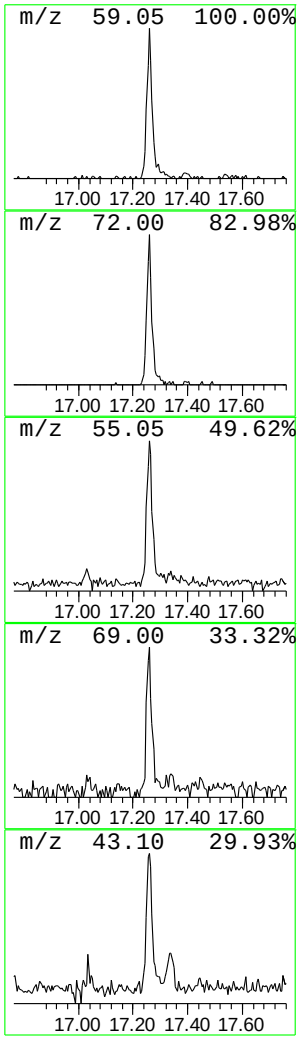




Tentatively Identified Compound (LSC) summary

Operator ID: kristis Date Acquired: 9 May 2015 6:07 pm
Data File: C:\MSDCHEM\1\DATA\EP4119\P95333.D
Name: jb94209-13
Misc: op83797,ep4119,1000,,,1,1
Method: C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title: Semi Volatile Extractables by GC/MS
Library Searched: C:\DATABASE\NIST08.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
unknown	17.26	5.4	ppm	132881	11	18.06	983223	40.0

9.1.29

9

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4119\P95334.D Vial: 8
Acq On : 9 May 2015 6:35 pm Operator: kristis
Sample : jb94209-14 Inst : MSP
Misc : op83797,ep4119,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 09 18:58:00 2015 Quant Results File: MP4082.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed May 06 14:38:22 2015
Response via : Initial Calibration
DataAcq Meth : MP4082

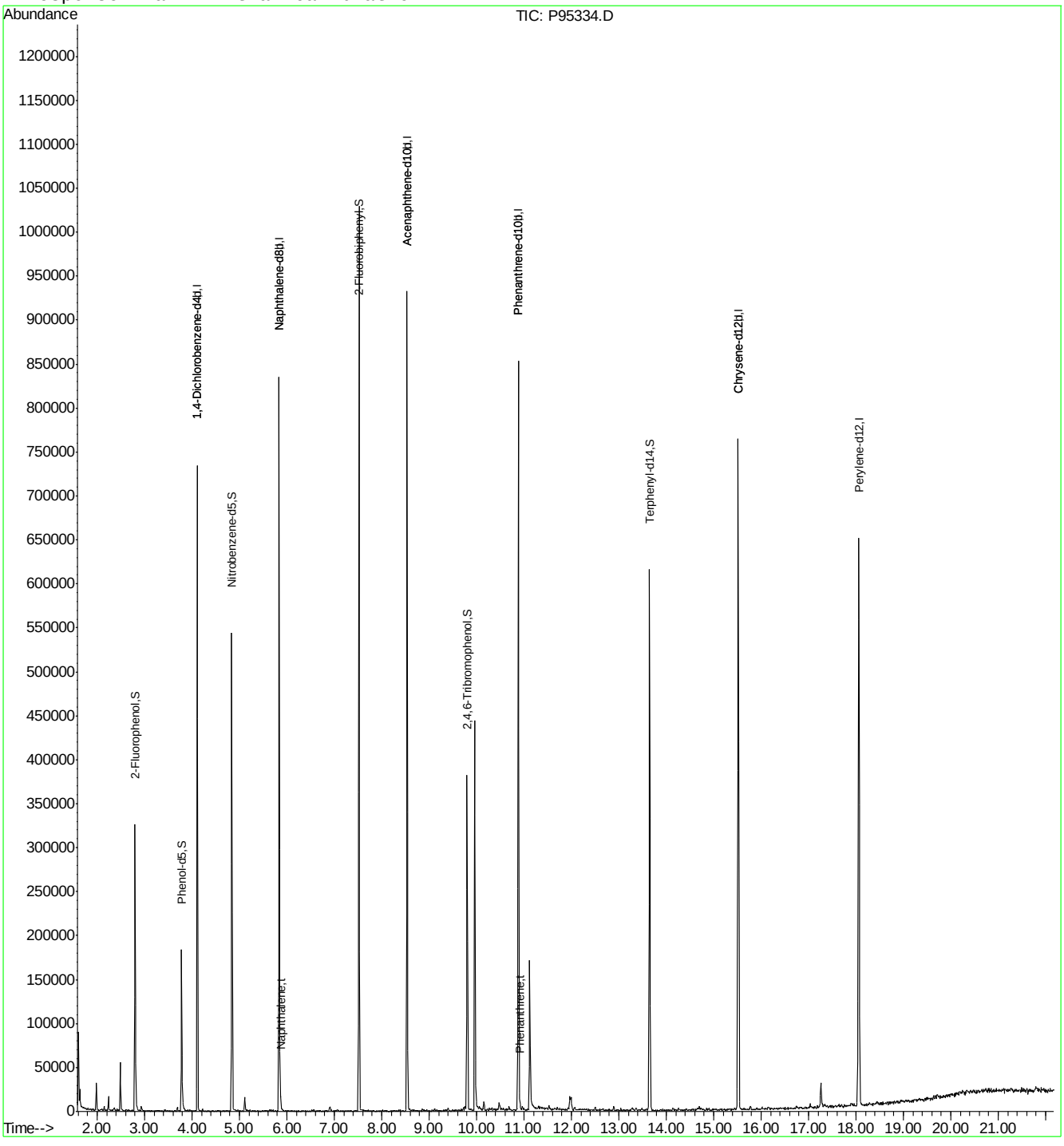
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.11	152	108206	40.00	ppm	-0.04
24) Naphthalene-d8	5.84	136	393893	40.00	ppm	-0.05
47) Acenaphthene-d10	8.54	164	233026	40.00	ppm	-0.05
69) Phenanthrene-d10	10.88	188	375930	40.00	ppm	-0.05
83) Chrysene-d12	15.52	240	380132	40.00	ppm	-0.06
92) Perylene-d12	18.06	264	335435	40.00	ppm	-0.06
102) 1,4-Dichlorobenzene-d4b	4.11	152	108206	40.00	ppm	-0.04
104) Phenanthrene-d10b	10.88	188	375930	40.00	ppm	-0.05
106) Chrysene-d12b	15.52	240	380132	40.00	ppm	-0.06
108) Naphthalene-d8b	5.84	136	393893	40.00	ppm	-0.05
110) Acenaphthene-d10b	8.54	164	233026	40.00	ppm	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	2.80	112	88833	20.71	ppm	-0.04
Spiked Amount 50.000			Recovery = 41.42%			
8) Phenol-d5	3.78	99	75591	14.28	ppm	-0.04
Spiked Amount 50.000			Recovery = 28.56%			
25) Nitrobenzene-d5	4.84	82	199008	47.64	ppm	-0.05
Spiked Amount 50.000			Recovery = 95.28%			
51) 2-Fluorobiphenyl	7.52	172	343447	44.57	ppm	-0.05
Spiked Amount 50.000			Recovery = 89.14%			
73) 2,4,6-Tribromophenol	9.81	330	47492	50.55	ppm	-0.05
Spiked Amount 50.000			Recovery = 101.10%			
85) Terphenyl-d14	13.65	244	261977	33.63	ppm	-0.05
Spiked Amount 50.000			Recovery = 67.26%			
Target Compounds						Qvalue
38) Naphthalene	5.87	128	6207	0.59	ppm	98
77) Phenanthrene	10.92	178	5125	0.47	ppm	96

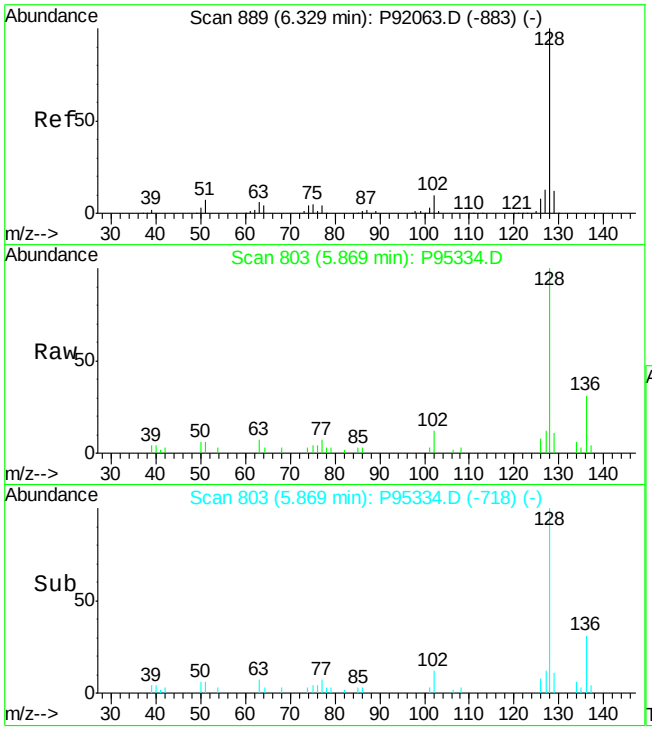
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4119\P95334.D Vial: 8
Acq On : 9 May 2015 6:35 pm Operator: kristis
Sample : jb94209-14 Inst : MSP
Misc : op83797,ep4119,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 10 12:06 2015 Quant Results File: MP4082.RES

Method : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed May 06 14:38:22 2015
Response via : Initial Calibration

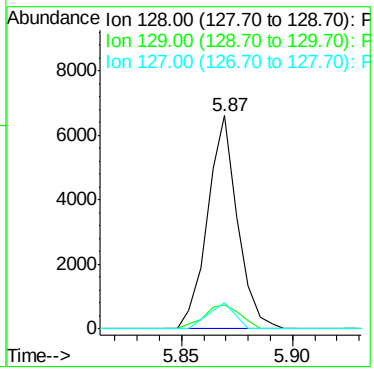


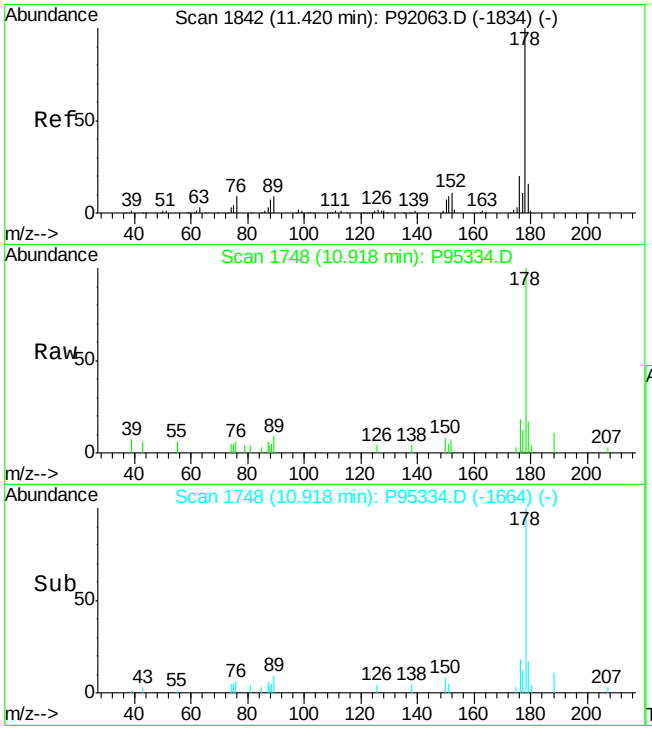


#38
Naphthalene
Concen: 0.59 ppm
RT: 5.87 min Scan# 803
Delta R.T. -0.05 min
Lab File: P95334.D
Acq: 9 May 2015 6:35 pm

Tgt Ion:128 Resp: 6207

Ion	Ratio	Lower	Upper
128	100		
129	11.3	0.0	42.0
127	12.4	0.0	43.4

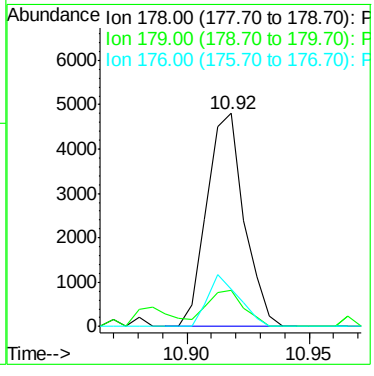




#77
Phenanthrene
Concen: 0.47 ppm
RT: 10.92 min Scan# 1748
Delta R.T. -0.05 min
Lab File: P95334.D
Acq: 9 May 2015 6:35 pm

Tgt Ion:178 Resp: 5125

Ion	Ratio	Lower	Upper
178	100		
179	14.2	0.0	46.0
176	17.5	0.0	49.4



LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\EP4119\P95334.D Vial: 8
Acq On : 9 May 2015 6:35 pm Operator: kristis
Sample : jb94209-14 Inst : MSP
Misc : op83797,ep4119,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.146	101	106	110	rVB2	4671	3291	0.30%	0.032%
2	2.237	119	123	130	rBV	16525	15618	1.43%	0.150%
3	2.365	142	147	155	rVB5	3503	6251	0.57%	0.060%
4	2.488	167	170	181	rBV	54638	47591	4.37%	0.458%
5	2.798	222	228	243	rBV	326463	312383	28.69%	3.005%
6	2.931	250	253	259	rVB2	4917	5151	0.47%	0.050%
7	3.690	390	395	399	rBV2	4641	5714	0.52%	0.055%
8	3.781	406	412	425	rBV	183480	212260	19.50%	2.042%
9	3.952	440	444	451	rVB2	2549	3580	0.33%	0.034%
10	4.112	466	474	490	rVB	735055	669317	61.48%	6.438%
11	4.219	490	494	498	rBV	3134	3632	0.33%	0.035%
12	4.838	604	610	626	rBV	543804	560192	51.46%	5.388%
13	5.111	656	661	667	rBV2	15875	19334	1.78%	0.186%
14	5.218	675	681	685	rVB3	2272	3292	0.30%	0.032%
15	5.634	749	759	761	rBV3	1777	3746	0.34%	0.036%
16	5.837	791	797	814	rBV	835275	862230	79.20%	8.294%
17	6.900	985	996	1002	rBV2	5201	9849	0.90%	0.095%
18	7.520	1103	1112	1118	rBV	1029848	1024626	94.12%	9.856%
19	8.535	1296	1302	1310	rBV	932620	976999	89.74%	9.398%
20	8.856	1358	1362	1366	rBV	2681	3239	0.30%	0.031%
21	9.112	1406	1410	1415	rBV3	2635	3182	0.29%	0.031%
22	9.208	1424	1428	1435	rVB3	1541	3835	0.35%	0.037%
23	9.401	1461	1464	1468	rBV	3602	3508	0.32%	0.034%
24	9.497	1475	1482	1486	rBV2	2416	5132	0.47%	0.049%
25	9.727	1520	1525	1528	rBV3	3982	5941	0.55%	0.057%
26	9.759	1528	1531	1533	rVV3	4467	4202	0.39%	0.040%
27	9.801	1533	1539	1548	rVB2	381019	450911	41.42%	4.337%
28	9.962	1562	1569	1584	rBV	443279	519004	47.67%	4.992%
29	10.058	1584	1587	1594	rVB6	4245	6497	0.60%	0.062%
30	10.154	1599	1605	1611	rVB4	9606	13454	1.24%	0.129%
31	10.325	1632	1637	1641	rVB3	2871	3478	0.32%	0.033%
32	10.474	1658	1665	1673	rBV5	8312	15906	1.46%	0.153%
33	10.560	1678	1681	1688	rVB5	2656	4217	0.39%	0.041%
34	10.683	1700	1704	1707	rBV	4723	4364	0.40%	0.042%
35	10.768	1719	1720	1729	rVB5	1591	3109	0.29%	0.030%
36	10.880	1733	1741	1752	rBV	852402	1031288	94.73%	9.920%
37	10.966	1754	1757	1761	rVB3	4548	4694	0.43%	0.045%
38	11.121	1780	1786	1808	rBV	170577	230385	21.16%	2.216%

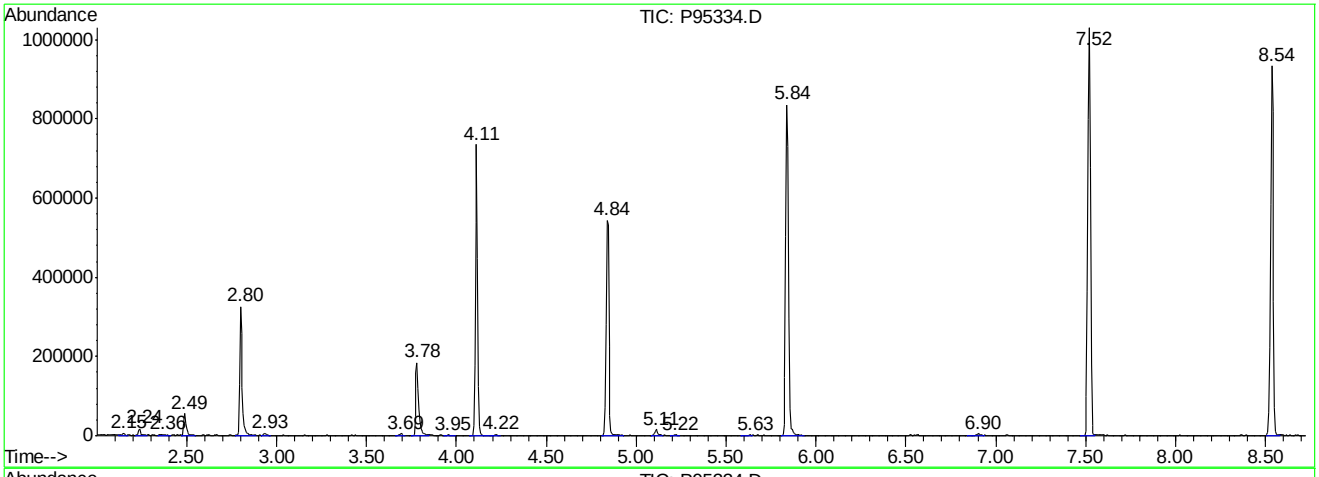
39	11.302	1812	1820	1827	rVB8	3547	9318	0.86%	0.090%
40	11.420	1838	1842	1845	rVB2	2305	3814	0.35%	0.037%
41	11.522	1857	1861	1865	rBV5	5339	6541	0.60%	0.063%
42	11.644	1880	1884	1888	rBV4	2076	3105	0.29%	0.030%
43	11.703	1894	1895	1901	rVV3	3329	3590	0.33%	0.035%
44	11.751	1901	1904	1909	rVB3	2818	3670	0.34%	0.035%
45	11.917	1931	1935	1939	rBV4	2256	3260	0.30%	0.031%
46	11.965	1939	1944	1946	rVV	15277	18854	1.73%	0.181%
47	11.992	1948	1949	1958	rVB	14903	14989	1.38%	0.144%
48	12.072	1958	1964	1971	rBV6	4125	7159	0.66%	0.069%
49	12.499	2036	2044	2049	rVB4	3843	5929	0.54%	0.057%
50	12.670	2071	2076	2079	rVB4	2826	4186	0.38%	0.040%
51	12.894	2113	2118	2121	rVB3	5783	6313	0.58%	0.061%
52	13.044	2143	2146	2151	rVB4	3708	4623	0.42%	0.044%
53	13.274	2185	2189	2194	rBV2	3767	5993	0.55%	0.058%
54	13.359	2200	2205	2210	rVB3	3166	4922	0.45%	0.047%
55	13.429	2210	2218	2221	rBV2	1523	3475	0.32%	0.033%
56	13.648	2251	2259	2266	rBV	614661	794129	72.94%	7.639%
57	13.776	2275	2283	2287	rVB2	2041	3931	0.36%	0.038%
58	14.139	2343	2351	2355	rBV3	3521	6121	0.56%	0.059%
59	14.257	2369	2373	2379	rBV3	2209	3476	0.32%	0.033%
60	14.583	2430	2434	2438	rBV3	2491	3684	0.34%	0.035%
61	14.657	2442	2448	2450	rVV3	2213	3675	0.34%	0.035%
62	14.695	2450	2455	2459	rVB5	3781	5440	0.50%	0.052%
63	14.844	2476	2483	2486	rBV5	2385	3483	0.32%	0.034%
64	14.903	2488	2494	2498	rBV2	3209	4656	0.43%	0.045%
65	15.518	2601	2609	2623	rBV	763069	1088690	100.00%	10.472%
66	15.763	2648	2655	2663	rBV4	3950	6023	0.55%	0.058%
67	15.908	2678	2682	2685	rBV5	1839	3057	0.28%	0.029%
68	16.014	2696	2702	2705	rBV4	2746	3523	0.32%	0.034%
69	16.153	2723	2728	2735	rBV5	3077	6944	0.64%	0.067%
70	17.003	2880	2887	2890	rBV4	2028	4147	0.38%	0.040%
71	17.035	2890	2893	2899	rVV6	4868	5840	0.54%	0.056%
72	17.179	2917	2920	2923	rBV3	3084	3495	0.32%	0.034%
73	17.259	2930	2935	2946	rBV2	27791	45314	4.16%	0.436%
74	17.339	2947	2950	2956	rVB6	2877	4369	0.40%	0.042%
75	17.483	2976	2977	2982	rBV4	2955	3916	0.36%	0.038%
76	17.756	3024	3028	3031	rBV4	3692	4959	0.46%	0.048%
77	17.895	3052	3054	3058	rBV5	3249	4061	0.37%	0.039%
78	18.060	3075	3085	3095	rBV2	645526	1001786	92.02%	9.636%
79	18.226	3110	3116	3119	rBV7	3594	5600	0.51%	0.054%
80	18.285	3126	3127	3132	rBV5	2501	3067	0.28%	0.030%
81	18.365	3139	3142	3143	rBV3	3083	3249	0.30%	0.031%
82	18.456	3150	3159	3161	rBV10	3783	7817	0.72%	0.075%
83	18.787	3215	3221	3222	rVB4	2430	3843	0.35%	0.037%
84	18.808	3222	3225	3230	rBV7	3398	5741	0.53%	0.055%
85	18.862	3230	3235	3236	rBV5	2984	3372	0.31%	0.032%
86	18.937	3245	3249	3251	rBV5	4069	5247	0.48%	0.050%
87	19.182	3293	3295	3298	rBV4	3217	3462	0.32%	0.033%
88	19.246	3301	3307	3310	rBV7	3303	6592	0.61%	0.063%
89	19.449	3342	3345	3347	rBV4	3304	4121	0.38%	0.040%
90	19.497	3350	3354	3356	rBV5	3522	4401	0.40%	0.042%
91	19.594	3368	3372	3374	rBV4	2796	3413	0.31%	0.033%
92	19.631	3376	3379	3383	rVV6	4961	4842	0.44%	0.047%
93	19.674	3383	3387	3388	rVV3	4316	3703	0.34%	0.036%
94	19.717	3391	3395	3404	rBV3	5095	14697	1.35%	0.141%
95	19.781	3404	3407	3410	rBV5	3379	3744	0.34%	0.036%

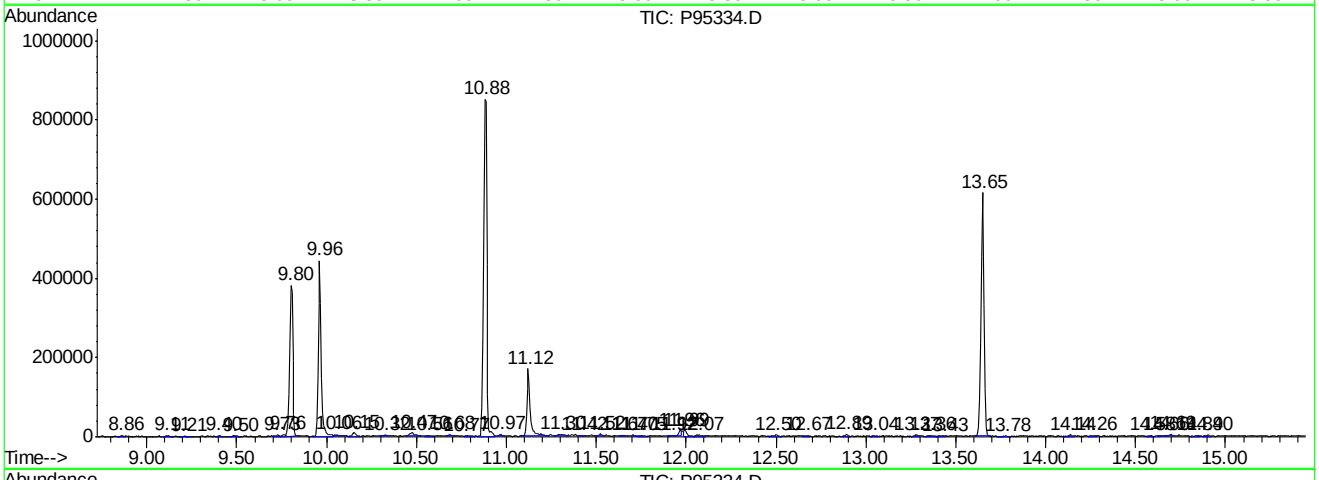
96	19.887	3426	3427	3430	rBV3	3380	3819	0.35%	0.037%
97	20.005	3443	3449	3452	rBV8	4740	9832	0.90%	0.095%
98	20.085	3463	3464	3467	rBV2	4251	3290	0.30%	0.032%
99	20.117	3467	3470	3471	rBV3	4059	3522	0.32%	0.034%
100	20.245	3492	3494	3500	rVB7	4895	7242	0.67%	0.070%
101	20.310	3504	3506	3508	rBV3	4432	4578	0.42%	0.044%
102	20.416	3522	3526	3528	rBV4	4005	4045	0.37%	0.039%
103	20.475	3535	3537	3540	rVB4	3180	3198	0.29%	0.031%
104	20.689	3574	3577	3579	rBV4	4037	3584	0.33%	0.034%
105	20.785	3593	3595	3597	rBV3	4519	3692	0.34%	0.036%
106	21.116	3654	3657	3660	rVB5	5823	6703	0.62%	0.064%
107	21.138	3660	3661	3663	rBV2	4135	3307	0.30%	0.032%
108	21.196	3669	3672	3675	rBV5	3728	4651	0.43%	0.045%
109	21.266	3683	3685	3691	rVB7	3415	5473	0.50%	0.053%
110	21.533	3732	3735	3737	rVB4	4586	3830	0.35%	0.037%
111	21.554	3737	3739	3743	rVB5	4198	4663	0.43%	0.045%
112	21.608	3744	3749	3752	rVB6	6979	11004	1.01%	0.106%
113	21.650	3752	3757	3759	rBV6	6152	11209	1.03%	0.108%
114	21.795	3777	3784	3791	rBV6	5563	12302	1.13%	0.118%
115	21.907	3803	3805	3809	rBV5	5991	7006	0.64%	0.067%
116	22.051	3830	3832	3838	rBV7	3970	6427	0.59%	0.062%

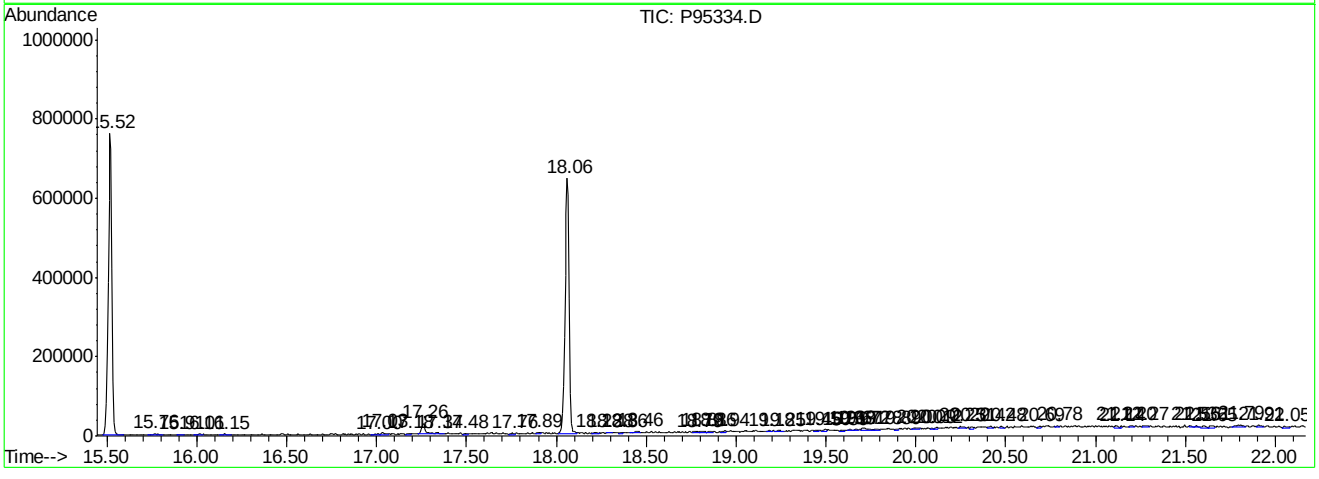
Sum of corrected areas: 10396150

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\EP4119\P95334.D
Operator : kristis
Acquired : 9 May 2015 6:35 pm using AcqMethod MP4082
Instrument : MSP
Sample Name: jb94209-14
Misc Info : op83797,ep4119,1000,,,1,1
Vial Number: 8
Quant File :MP4082.RES (RTE Integrator)







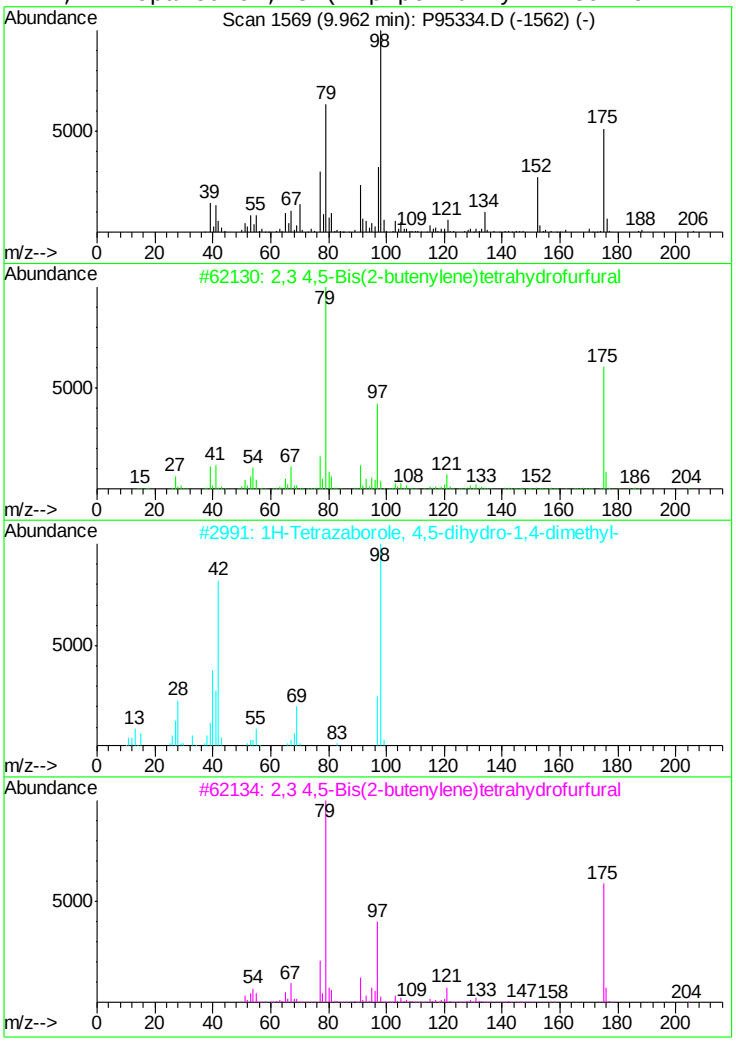
Library Search Compound Report

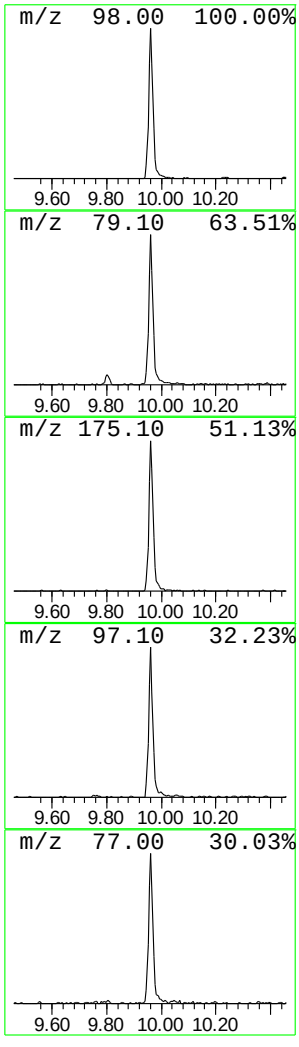
```
Data File : C:\MSDCHEM\1\DATA\EP4119\P95334.D            Vial: 8
Acq On    :  9 May 2015   6:35 pm                    Operator: kristis
Sample    : jb94209-14                               Inst    : MSP
Misc      : op83797,ep4119,1000,,,1,1                Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Library      : C:\DATABASE\NIST08.L
 ******************************************************************
 Peak Number  1  unknown                          Concentration Rank  1

   R.T.   EstConc           Area       Relative to ISTD         R.T.
 ------------------------------------------------------------------
   9.96   20.13 ppm        519004    Phenanthrene-d10           10.88

  Hit# of  5    Tentative ID              MW  MolForm       CAS#       Qual
 ------------------------------------------------------------------------
  1 2,3 4,5-Bis(2-butenylene)tetrahy... 204 C13H16O2       000126-15-8 38
  2 1H-Tetrazaborole, 4,5-dihydro-1,...  98 C2H7BN4        006982-51-0 27
  3 2,3 4,5-Bis(2-butenylene)tetrahy... 204 C13H16O2       000126-15-8 27
  4 1,2-Propanediol, 3-(1-piperidiny... 397 C22H27N3O4     000101-08-6 22
```





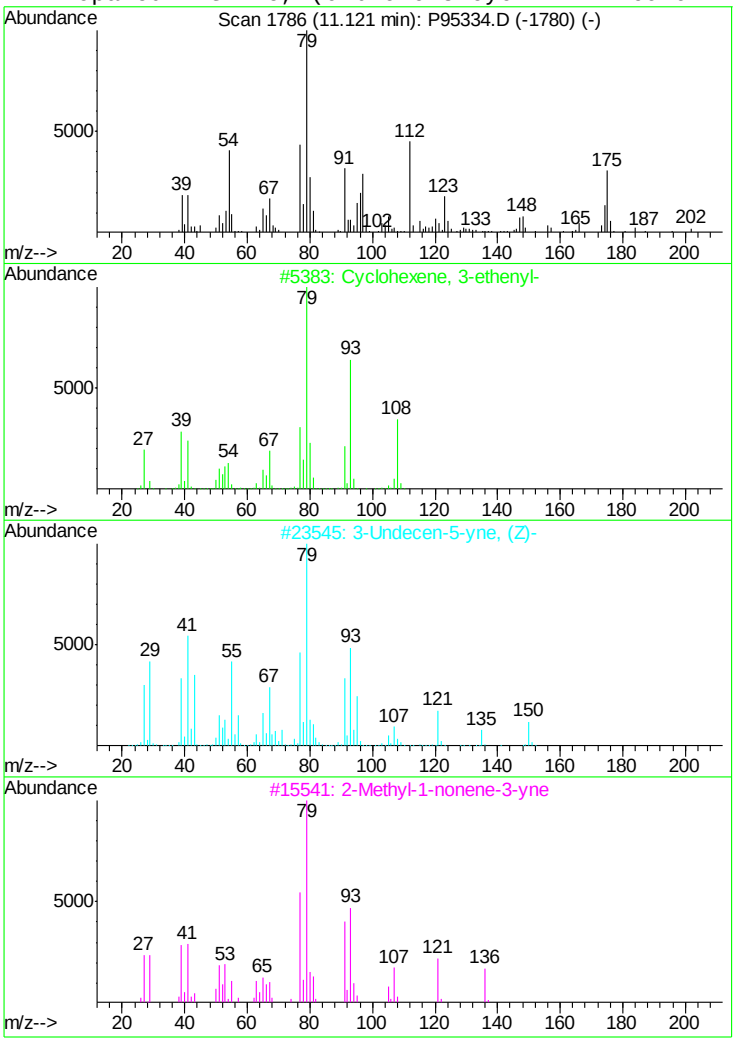
Library Search Compound Report

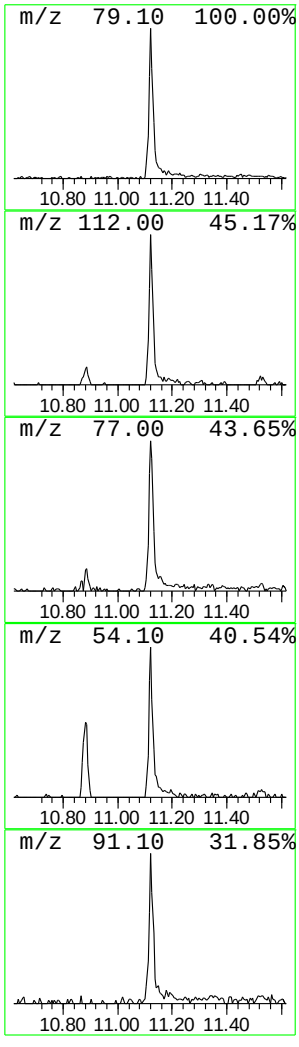
```
Data File : C:\MSDCHEM\1\DATA\EP4119\P95334.D            Vial: 8
Acq On    :  9 May 2015   6:35 pm                    Operator: kristis
Sample    : jb94209-14                               Inst    : MSP
Misc      : op83797,ep4119,1000,,,1,1                Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Library      : C:\DATABASE\NIST08.L
 ********************************************************************
 Peak Number  2  unknown                          Concentration Rank  2

   R.T.   EstConc           Area       Relative to ISTD         R.T.
 --------------------------------------------------------------------
  11.12    8.94 ppm        230385    Phenanthrene-d10b          10.88

  Hit# of  5    Tentative ID              MW  MolForm       CAS#       Qual
 ---------------------------------------------------------------------
  1 Cyclohexene, 3-ethenyl-              108 C8H12          000766-03-0 32
  2 3-Undecen-5-yne, (Z)-                150 C11H18         074744-27-7 25
  3 2-Methyl-1-nonene-3-yne              136 C10H16         070058-00-3 25
  4 Propanedinitrile, (6-bromo-3-cyc... 224 C9H9BrN2        062199-49-9 22
```





Tentatively Identified Compound (LSC) summary

Operator ID: kristis Date Acquired: 9 May 2015 6:35 pm
Data File: C:\MSDCHEM\1\DATA\EP4119\P95334.D
Name: jb94209-14
Misc: op83797,ep4119,1000,,,1,1
Method: C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title: Semi Volatile Extractables by GC/MS
Library Searched: C:\DATABASE\NIST08.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
unknown	9.96	20.1	ppm	519004	7	10.88	1031290	40.0
unknown	11.12	8.9	ppm	230385	8	10.88	1031290	40.0

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4119\P95335.D Vial: 9
Acq On : 9 May 2015 7:04 pm Operator: kristis
Sample : jb94209-15 Inst : MSP
Misc : op83797,ep4119,960,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 09 19:26:30 2015 Quant Results File: MP4082.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed May 06 14:38:22 2015
Response via : Initial Calibration
DataAcq Meth : MP4082

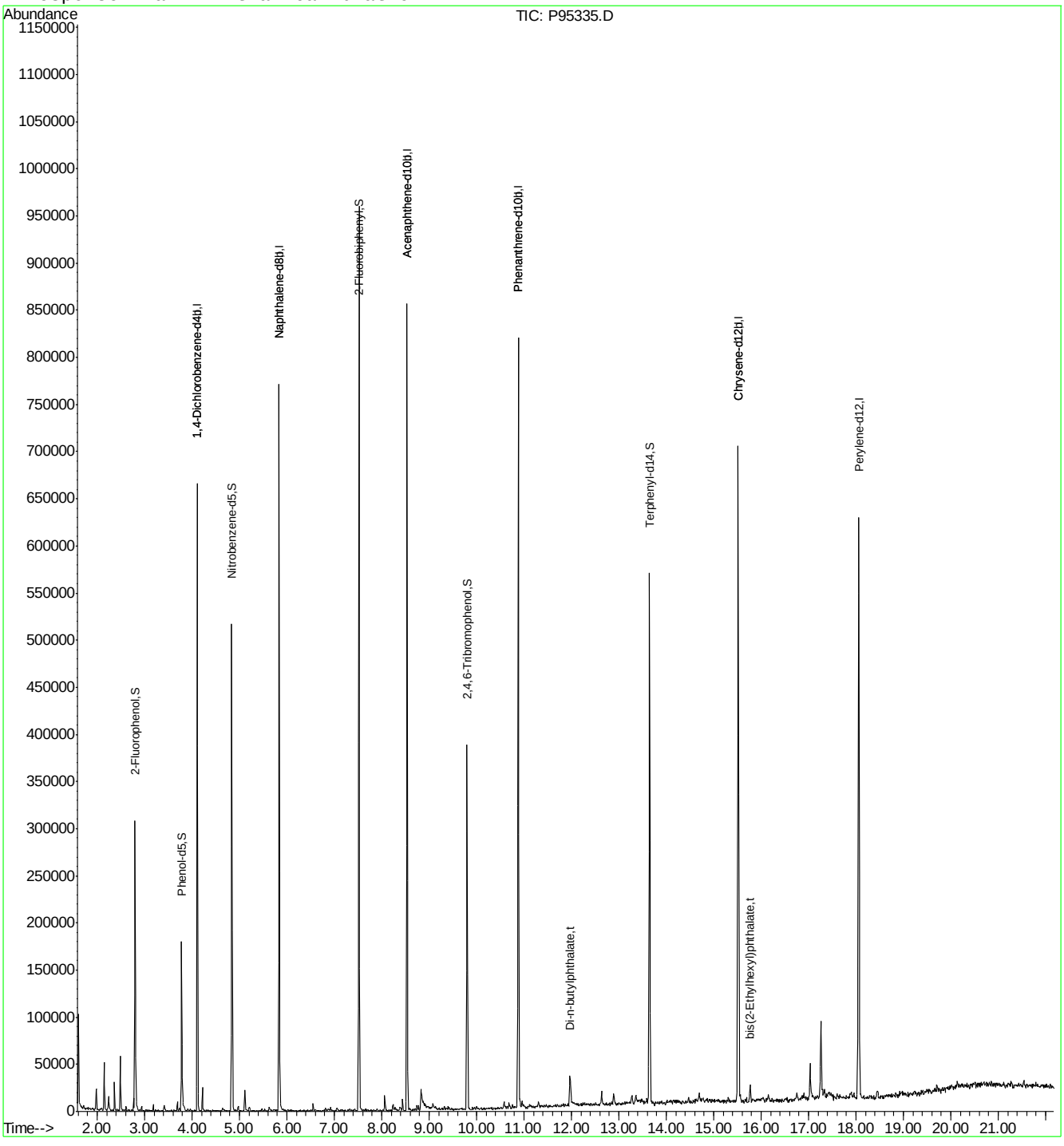
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.11	152	99834	40.00	ppm	-0.04
24) Naphthalene-d8	5.84	136	359768	40.00	ppm	-0.05
47) Acenaphthene-d10	8.54	164	214935	40.00	ppm	-0.05
69) Phenanthrene-d10	10.88	188	348832	40.00	ppm	-0.05
83) Chrysene-d12	15.52	240	345106	40.00	ppm	-0.06
92) Perylene-d12	18.06	264	304912	40.00	ppm	-0.06
102) 1,4-Dichlorobenzene-d4b	4.11	152	99834	40.00	ppm	-0.04
104) Phenanthrene-d10b	10.88	188	348832	40.00	ppm	-0.05
106) Chrysene-d12b	15.52	240	345106	40.00	ppm	-0.06
108) Naphthalene-d8b	5.84	136	359768	40.00	ppm	-0.05
110) Acenaphthene-d10b	8.54	164	214935	40.00	ppm	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	2.80	112	85701	21.65	ppm	-0.04
Spiked Amount 50.000			Recovery = 43.30%			
8) Phenol-d5	3.78	99	73558	15.06	ppm	-0.04
Spiked Amount 50.000			Recovery = 30.12%			
25) Nitrobenzene-d5	4.84	82	185443	48.60	ppm	-0.05
Spiked Amount 50.000			Recovery = 97.20%			
51) 2-Fluorobiphenyl	7.52	172	324250	45.62	ppm	-0.05
Spiked Amount 50.000			Recovery = 91.24%			
73) 2,4,6-Tribromophenol	9.80	330	46738	53.61	ppm	-0.05
Spiked Amount 50.000			Recovery = 107.22%			
85) Terphenyl-d14	13.65	244	240869	34.06	ppm	-0.05
Spiked Amount 50.000			Recovery = 68.12%			
Target Compounds						Qvalue
80) Di-n-butylphthalate	11.97	149	15884	1.37	ppm	99
91) bis(2-Ethylhexyl)phthalate	15.77	149	7211	1.14	ppm	99

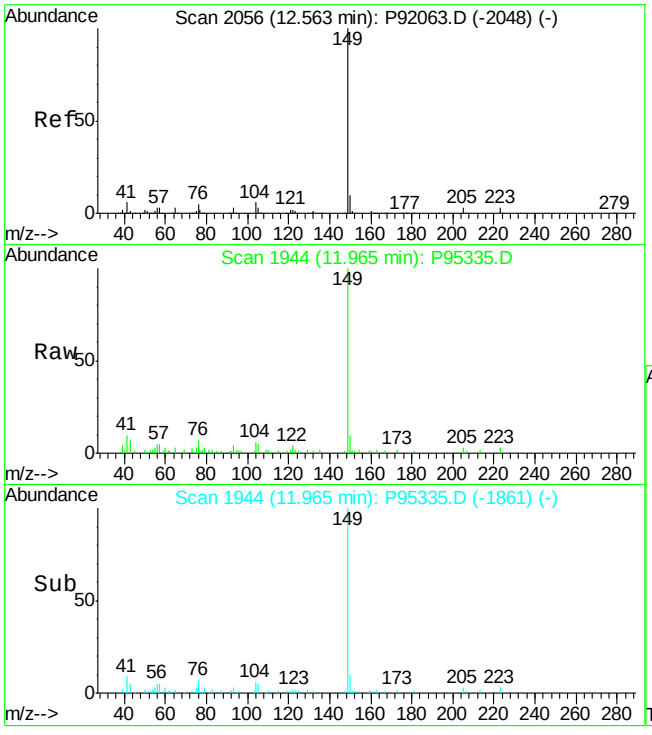
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4119\P95335.D Vial: 9
Acq On : 9 May 2015 7:04 pm Operator: kristis
Sample : jb94209-15 Inst : MSP
Misc : op83797,ep4119,960,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 10 12:07 2015 Quant Results File: MP4082.RES

Method : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed May 06 14:38:22 2015
Response via : Initial Calibration

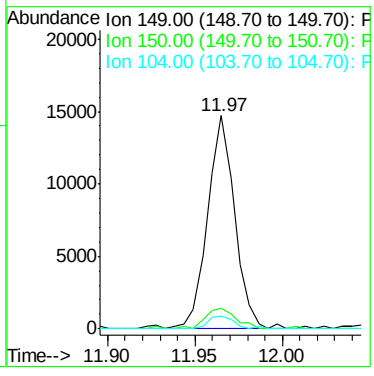


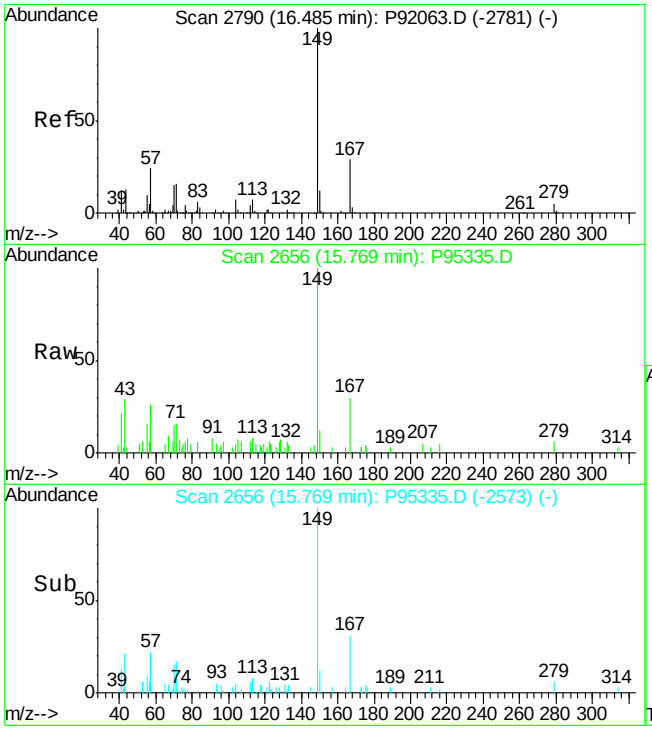


#80
Di-n-butylphthalate
Concen: 1.37 ppm
RT: 11.97 min Scan# 1944
Delta R.T. -0.06 min
Lab File: P95335.D
Acq: 9 May 2015 7:04 pm

Tgt Ion:149 Resp: 15884

Ion	Ratio	Lower	Upper
149	100		
150	9.1	0.0	39.3
104	6.1	0.0	35.4

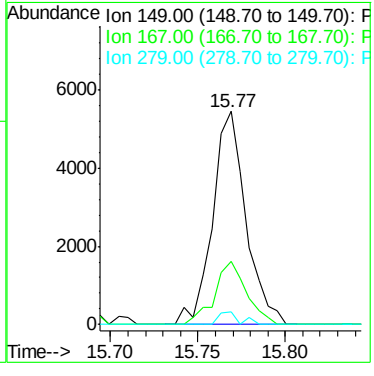




#91
bis(2-Ethylhexyl)phthalate
Concen: 1.14 ppm
RT: 15.77 min Scan# 2656
Delta R.T. -0.06 min
Lab File: P95335.D
Acq: 9 May 2015 7:04 pm

Tgt Ion:149 Resp: 7211

Ion	Ratio	Lower	Upper
149	100		
167	29.5	0.0	59.4
279	6.1	0.0	34.6



LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\EP4119\P95335.D Vial: 9
Acq On : 9 May 2015 7:04 pm Operator: kristis
Sample : jb94209-15 Inst : MSP
Misc : op83797,ep4119,960,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.146	101	106	117	rBV	50726	40843	4.03%	0.410%
2	2.237	117	123	131	rVB2	15314	21539	2.12%	0.216%
3	2.365	143	147	152	rVB	30225	23873	2.35%	0.240%
4	2.488	167	170	179	rVB	58383	50747	5.01%	0.510%
5	2.611	189	193	197	rVB3	5472	6522	0.64%	0.065%
6	2.771	219	223	225	rBV	14224	11965	1.18%	0.120%
7	2.798	225	228	243	rVB	307273	300489	29.64%	3.017%
8	2.937	249	254	258	rBV	5107	4968	0.49%	0.050%
9	3.027	268	271	275	rBV	2339	3116	0.31%	0.031%
10	3.182	297	300	304	rVB	7010	5505	0.54%	0.055%
11	3.412	338	343	352	rBV2	6508	9267	0.91%	0.093%
12	3.690	390	395	399	rVB	10153	8592	0.85%	0.086%
13	3.738	399	404	407	rBV3	3693	4325	0.43%	0.043%
14	3.781	407	412	428	rVB	179370	211651	20.88%	2.125%
15	3.914	430	437	441	rVB3	1901	3847	0.38%	0.039%
16	3.962	441	446	451	rBV3	1935	3207	0.32%	0.032%
17	4.112	467	474	483	rBV	665788	614937	60.66%	6.174%
18	4.219	486	494	501	rVB2	25287	24850	2.45%	0.249%
19	4.646	566	574	577	rBV2	3396	5258	0.52%	0.053%
20	4.838	599	610	624	rBV	516509	523421	51.63%	5.255%
21	4.972	630	635	641	rBV3	4705	5470	0.54%	0.055%
22	5.116	650	662	672	rBV	22820	29688	2.93%	0.298%
23	5.212	672	680	686	rVB2	4468	7409	0.73%	0.074%
24	5.474	721	729	733	rVB5	3253	6329	0.62%	0.064%
25	5.533	736	740	747	rVB2	2584	3260	0.32%	0.033%
26	5.629	750	758	765	rBV3	4650	9536	0.94%	0.096%
27	5.725	771	776	781	rBV3	1870	3733	0.37%	0.037%
28	5.838	792	797	810	rBV	771160	775964	76.54%	7.791%
29	6.014	825	830	836	rVB2	2130	3646	0.36%	0.037%
30	6.548	924	930	935	rBV2	7818	8527	0.84%	0.086%
31	6.815	971	980	986	rBV5	3731	6457	0.64%	0.065%
32	6.869	986	990	997	rVV5	2340	4908	0.48%	0.049%
33	6.917	997	999	1003	rVB2	3900	4333	0.43%	0.044%
34	7.061	1018	1026	1029	rBV4	3384	4681	0.46%	0.047%
35	7.323	1071	1075	1080	rVB2	2113	3217	0.32%	0.032%
36	7.424	1093	1094	1104	rVB3	2119	3835	0.38%	0.039%
37	7.520	1104	1112	1123	rBV	960356	974418	96.12%	9.783%
38	7.782	1152	1161	1167	rBV2	1548	4314	0.43%	0.043%

39	7.900	1179	1183	1188	rVB2	2616	3643	0.36%	0.037%
40	8.065	1209	1214	1220	rBV	16723	19357	1.91%	0.194%
41	8.236	1242	1246	1250	rBV2	7328	9199	0.91%	0.092%
42	8.274	1250	1253	1258	rVV4	3377	3870	0.38%	0.039%
43	8.386	1270	1274	1280	rBV5	3863	5938	0.59%	0.060%
44	8.439	1280	1284	1290	rVB2	12894	13737	1.36%	0.138%
45	8.535	1293	1302	1308	rBV	856134	900190	88.80%	9.038%
46	8.744	1338	1341	1345	rBV	4929	5153	0.51%	0.052%
47	8.781	1345	1348	1351	rVB2	5468	5432	0.54%	0.055%
48	8.829	1351	1357	1371	rBV3	23187	65242	6.44%	0.655%
49	8.915	1371	1373	1378	rVB2	4249	5536	0.55%	0.056%
50	9.080	1399	1404	1409	rBV7	5151	6716	0.66%	0.067%
51	9.139	1412	1415	1421	rVB5	3482	5079	0.50%	0.051%
52	9.208	1425	1428	1435	rBV5	2078	3985	0.39%	0.040%
53	9.321	1443	1449	1453	rBV3	4134	4458	0.44%	0.045%
54	9.401	1462	1464	1472	rBV4	3533	4867	0.48%	0.049%
55	9.801	1531	1539	1547	rBV2	386603	452191	44.61%	4.540%
56	9.914	1553	1560	1563	rVB5	3321	4255	0.42%	0.043%
57	9.956	1563	1568	1570	rBV2	3025	3217	0.32%	0.032%
58	10.004	1572	1577	1581	rBV2	3441	4428	0.44%	0.044%
59	10.362	1639	1644	1646	rBV4	2572	3446	0.34%	0.035%
60	10.581	1678	1685	1690	rBV6	7068	10117	1.00%	0.102%
61	10.651	1694	1698	1700	rVB2	3326	3655	0.36%	0.037%
62	10.683	1700	1704	1712	rBV3	6408	10872	1.07%	0.109%
63	10.758	1712	1718	1721	rBV5	4245	6427	0.63%	0.065%
64	10.881	1734	1741	1751	rBV2	816738	945863	93.30%	9.497%
65	10.961	1751	1756	1760	rBV2	6903	8493	0.84%	0.085%
66	11.094	1777	1781	1783	rBV4	2804	3869	0.38%	0.039%
67	11.121	1783	1786	1789	rVV5	4431	6150	0.61%	0.062%
68	11.158	1791	1793	1796	rVB2	3473	3307	0.33%	0.033%
69	11.303	1815	1820	1826	rVB6	6423	11602	1.14%	0.116%
70	11.361	1829	1831	1836	rBV5	2322	3656	0.36%	0.037%
71	11.463	1848	1850	1856	rVB7	2933	4204	0.41%	0.042%
72	11.628	1876	1881	1885	rBV6	2435	4752	0.47%	0.048%
73	11.799	1908	1913	1915	rBV5	2832	4205	0.41%	0.042%
74	11.864	1922	1925	1928	rBV3	2783	4245	0.42%	0.043%
75	11.965	1939	1944	1954	rBV2	32082	66221	6.53%	0.665%
76	12.200	1982	1988	1992	rVB8	3195	5214	0.51%	0.052%
77	12.238	1992	1995	1998	rBV4	3991	4431	0.44%	0.044%
78	12.574	2053	2058	2061	rVB6	2131	3536	0.35%	0.036%
79	12.633	2061	2069	2076	rBV4	15706	26319	2.60%	0.264%
80	12.740	2087	2089	2093	rBV3	3433	3049	0.30%	0.031%
81	12.831	2104	2106	2108	rBV3	2895	3126	0.31%	0.031%
82	12.889	2114	2117	2128	rVB2	12334	21509	2.12%	0.216%
83	13.007	2134	2139	2141	rBV5	3258	5147	0.51%	0.052%
84	13.162	2163	2168	2171	rBV6	2739	4677	0.46%	0.047%
85	13.226	2174	2180	2181	rBV5	2314	3643	0.36%	0.037%
86	13.274	2181	2189	2196	rVB4	9764	19406	1.91%	0.195%
87	13.359	2197	2205	2210	rBV9	8836	17377	1.71%	0.174%
88	13.477	2224	2227	2235	rVB10	6360	15011	1.48%	0.151%
89	13.530	2235	2237	2241	rBV5	4310	5481	0.54%	0.055%
90	13.584	2241	2247	2249	rVV6	6075	7903	0.78%	0.079%
91	13.648	2249	2259	2269	rVV	563453	755871	74.56%	7.589%
92	13.723	2272	2273	2280	rVB5	4549	7142	0.70%	0.072%
93	13.765	2280	2281	2283	rBV2	4360	3574	0.35%	0.036%
94	13.899	2304	2306	2312	rVB5	3946	5410	0.53%	0.054%
95	13.995	2321	2324	2327	rBV4	3926	6014	0.59%	0.060%

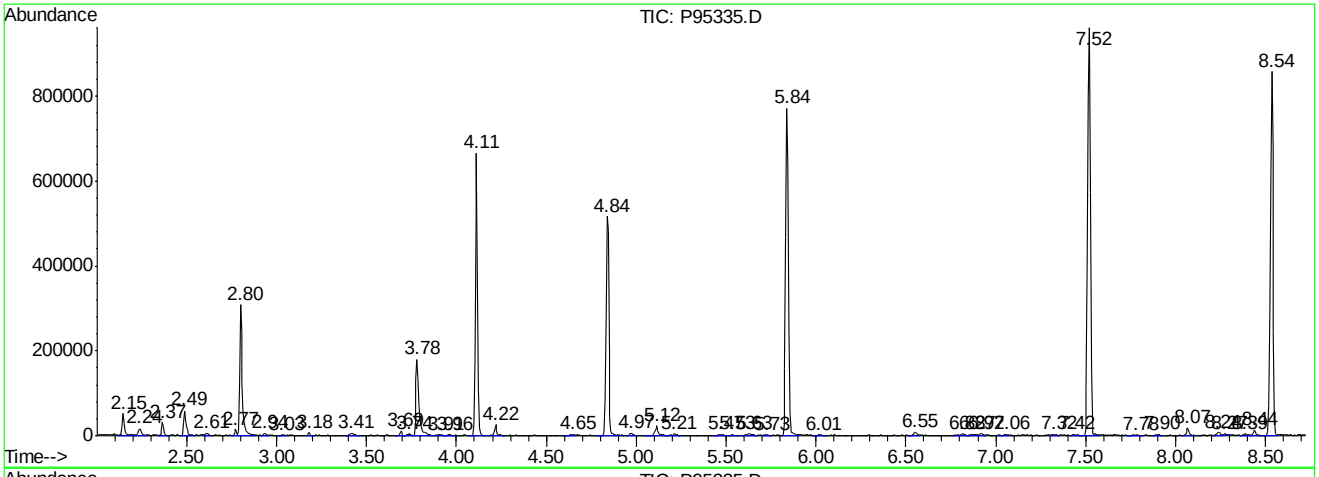
96	14.150	2349	2353	2355	rBV5	4265	5269	0.52%	0.053%
97	14.177	2355	2358	2361	rVB4	3873	3710	0.37%	0.037%
98	14.348	2386	2390	2394	rBV5	3310	5694	0.56%	0.057%
99	14.465	2408	2412	2415	rVB5	5379	4184	0.41%	0.042%
100	14.625	2438	2442	2446	rBV6	4286	8469	0.84%	0.085%
101	14.695	2449	2455	2460	rVV6	9639	14663	1.45%	0.147%
102	14.764	2466	2468	2475	rVB8	4888	7449	0.73%	0.075%
103	14.861	2475	2486	2492	rBV8	4514	12165	1.20%	0.122%
104	14.903	2492	2494	2497	rBV3	3832	3663	0.36%	0.037%
105	15.021	2514	2516	2520	rBV5	4026	3861	0.38%	0.039%
106	15.197	2546	2549	2551	rVB3	4062	4301	0.42%	0.043%
107	15.283	2562	2565	2567	rBV4	3666	4427	0.44%	0.044%
108	15.309	2567	2570	2575	rVB6	5653	7039	0.69%	0.071%
109	15.518	2601	2609	2623	rVB2	696091	1013741	100.00%	10.178%
110	15.662	2632	2636	2639	rBV6	4359	5617	0.55%	0.056%
111	15.694	2639	2642	2647	rVB7	5602	4694	0.46%	0.047%
112	15.769	2647	2656	2661	rBV2	19242	29329	2.89%	0.294%
113	15.833	2661	2668	2670	rBV8	3852	7500	0.74%	0.075%
114	15.908	2675	2682	2684	rBV7	3093	5025	0.50%	0.050%
115	16.020	2699	2703	2705	rBV5	3423	4893	0.48%	0.049%
116	16.105	2714	2719	2722	rBV7	4590	6981	0.69%	0.070%
117	16.153	2722	2728	2733	rVB10	7833	14552	1.44%	0.146%
118	16.233	2741	2743	2747	rVB4	4209	4014	0.40%	0.040%
119	16.394	2771	2773	2776	rBV4	3551	3377	0.33%	0.034%
120	16.436	2779	2781	2786	rBV6	4164	5702	0.56%	0.057%
121	16.506	2789	2794	2796	rVV6	2862	5263	0.52%	0.053%
122	16.554	2800	2803	2805	rVB4	5220	4716	0.47%	0.047%
123	16.613	2809	2814	2820	rBV7	3847	7929	0.78%	0.080%
124	16.672	2820	2825	2831	rBV9	2276	4781	0.47%	0.048%
125	16.746	2831	2839	2847	rBV9	8426	19147	1.89%	0.192%
126	16.859	2855	2860	2862	rBV6	5197	4753	0.47%	0.048%
127	16.896	2862	2867	2871	rVV8	5898	7248	0.71%	0.073%
128	17.029	2885	2892	2900	rBV2	38800	61458	6.06%	0.617%
129	17.147	2911	2914	2916	rBV4	3022	3081	0.30%	0.031%
130	17.179	2918	2920	2926	rVB7	3136	3978	0.39%	0.040%
131	17.259	2926	2935	2944	rBV3	82371	129896	12.81%	1.304%
132	17.334	2944	2949	2956	rVB3	9778	19434	1.92%	0.195%
133	17.382	2956	2958	2960	rBV3	5598	4872	0.48%	0.049%
134	17.414	2961	2964	2965	rBV3	3646	3782	0.37%	0.038%
135	17.532	2985	2986	2991	rBV5	5266	7735	0.76%	0.078%
136	17.601	2995	2999	3007	rVV10	6224	12093	1.19%	0.121%
137	17.735	3022	3024	3032	rBV9	2569	3171	0.31%	0.032%
138	17.799	3034	3036	3042	rBV7	3862	6006	0.59%	0.060%
139	17.874	3047	3050	3052	rVV4	4845	4712	0.46%	0.047%
140	17.900	3052	3055	3060	rVV7	7165	10325	1.02%	0.104%
141	17.954	3060	3065	3075	rVB7	6108	11970	1.18%	0.120%
142	18.061	3075	3085	3098	rBV2	616285	924992	91.25%	9.287%
143	18.242	3116	3119	3123	rVB6	3390	4518	0.45%	0.045%
144	18.290	3123	3128	3131	rBV7	3743	7438	0.73%	0.075%
145	18.376	3142	3144	3146	rVB3	4415	3328	0.33%	0.033%
146	18.402	3146	3149	3151	rBV4	3121	3792	0.37%	0.038%
147	18.451	3151	3158	3163	rVV9	7974	18001	1.78%	0.181%
148	18.531	3170	3173	3174	rBV3	3795	3851	0.38%	0.039%
149	18.600	3183	3186	3192	rBV8	3910	8497	0.84%	0.085%
150	18.798	3219	3223	3225	rBV5	2757	3136	0.31%	0.031%
151	18.835	3228	3230	3235	rVV6	4609	3740	0.37%	0.038%

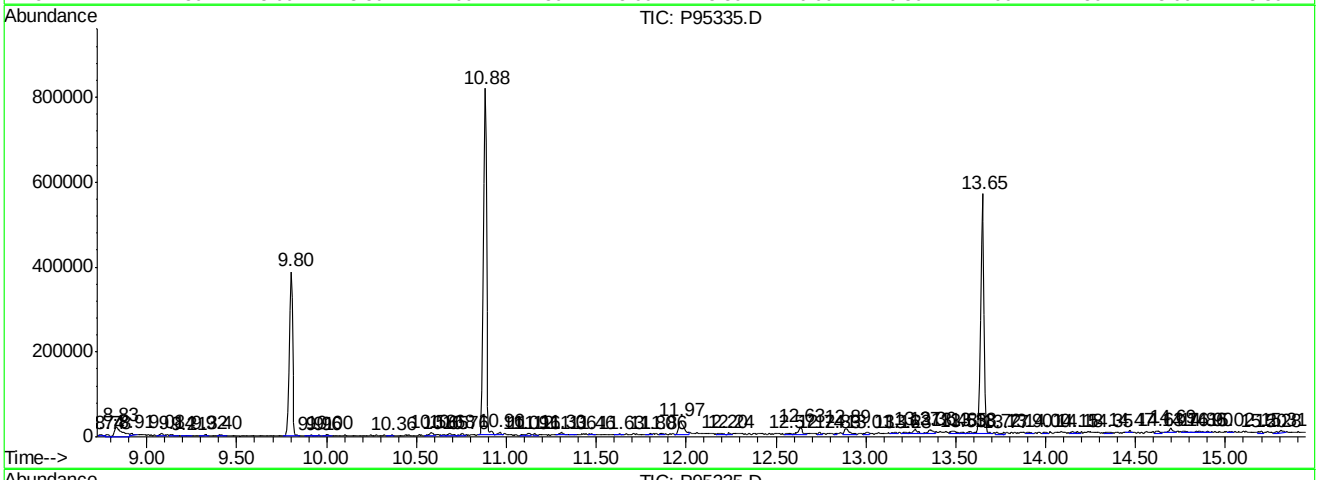
152	18.921	3244	3246	3249	rBV4	5552	4618	0.46%	0.046%
153	19.102	3277	3280	3281	rVB3	5399	3727	0.37%	0.037%
154	19.150	3286	3289	3291	rBV4	2916	3468	0.34%	0.035%
155	19.295	3315	3316	3319	rBV3	3019	3096	0.31%	0.031%
156	19.321	3320	3321	3326	rVB5	4774	5803	0.57%	0.058%
157	19.364	3326	3329	3330	rBV3	5624	4360	0.43%	0.044%
158	19.375	3330	3331	3336	rBV5	4392	6336	0.63%	0.064%
159	19.455	3343	3346	3348	rBV3	3702	3773	0.37%	0.038%
160	19.487	3348	3352	3356	rVV7	4365	6931	0.68%	0.070%
161	19.540	3361	3362	3367	rVB5	4616	5167	0.51%	0.052%
162	19.663	3382	3385	3387	rVB4	3891	3529	0.35%	0.035%
163	19.706	3390	3393	3400	rBV8	7837	11393	1.12%	0.114%
164	19.759	3401	3403	3408	rVB6	5641	6074	0.60%	0.061%
165	19.823	3408	3415	3418	rBV8	6148	11542	1.14%	0.116%
166	20.016	3448	3451	3458	rVB9	6063	12365	1.22%	0.124%
167	20.064	3458	3460	3461	rBV2	4329	3290	0.32%	0.033%
168	20.139	3471	3474	3479	rVB7	7067	8416	0.83%	0.084%
169	20.411	3522	3525	3533	rVB10	3258	7162	0.71%	0.072%
170	20.534	3547	3548	3552	rBV3	2893	3216	0.32%	0.032%
171	20.625	3563	3565	3567	rBV3	4649	3935	0.39%	0.040%
172	20.700	3574	3579	3583	rBV8	4089	6063	0.60%	0.061%
173	20.817	3596	3601	3603	rBV5	4673	6229	0.61%	0.063%
174	20.892	3613	3615	3618	rBV4	3128	3532	0.35%	0.035%
175	20.961	3626	3628	3631	rBV4	3454	3420	0.34%	0.034%
176	21.207	3672	3674	3677	rBV4	4537	4683	0.46%	0.047%
177	21.341	3697	3699	3701	rBV3	3708	3524	0.35%	0.035%
178	21.528	3732	3734	3735	rBV2	6203	4462	0.44%	0.045%
179	21.789	3782	3783	3789	rVB6	4668	5240	0.52%	0.053%
180	22.094	3837	3840	3845	rVB6	4909	6564	0.65%	0.066%

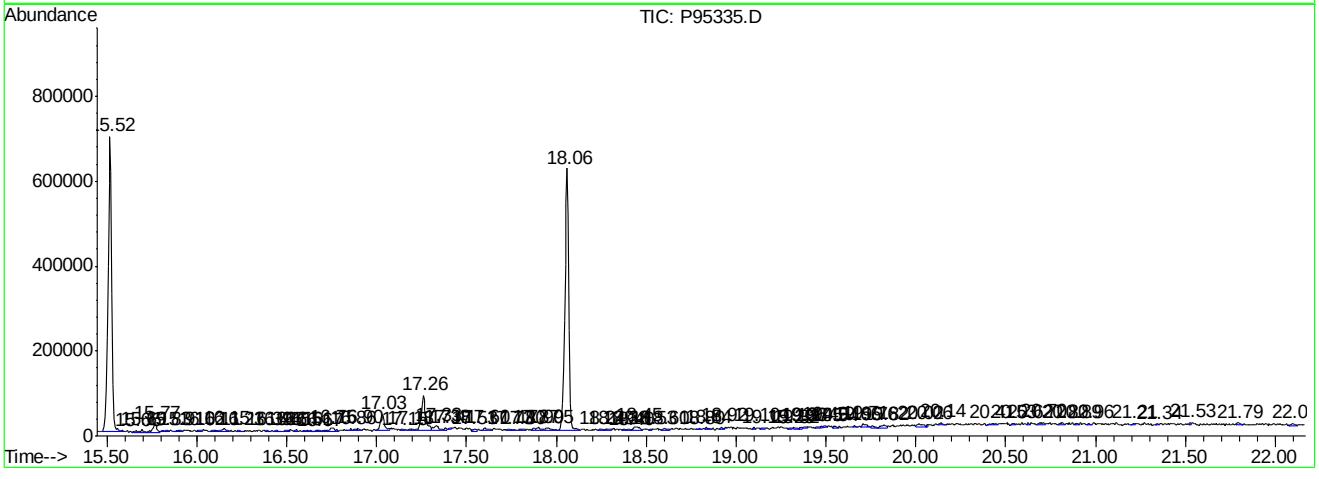
Sum of corrected areas: 9959944

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\EP4119\P95335.D
Operator : kristis
Acquired : 9 May 2015 7:04 pm using AcqMethod MP4082
Instrument : MSP
Sample Name: jb94209-15
Misc Info : op83797,ep4119,960,,,1,1
Vial Number: 9
Quant File :MP4082.RES (RTE Integrator)







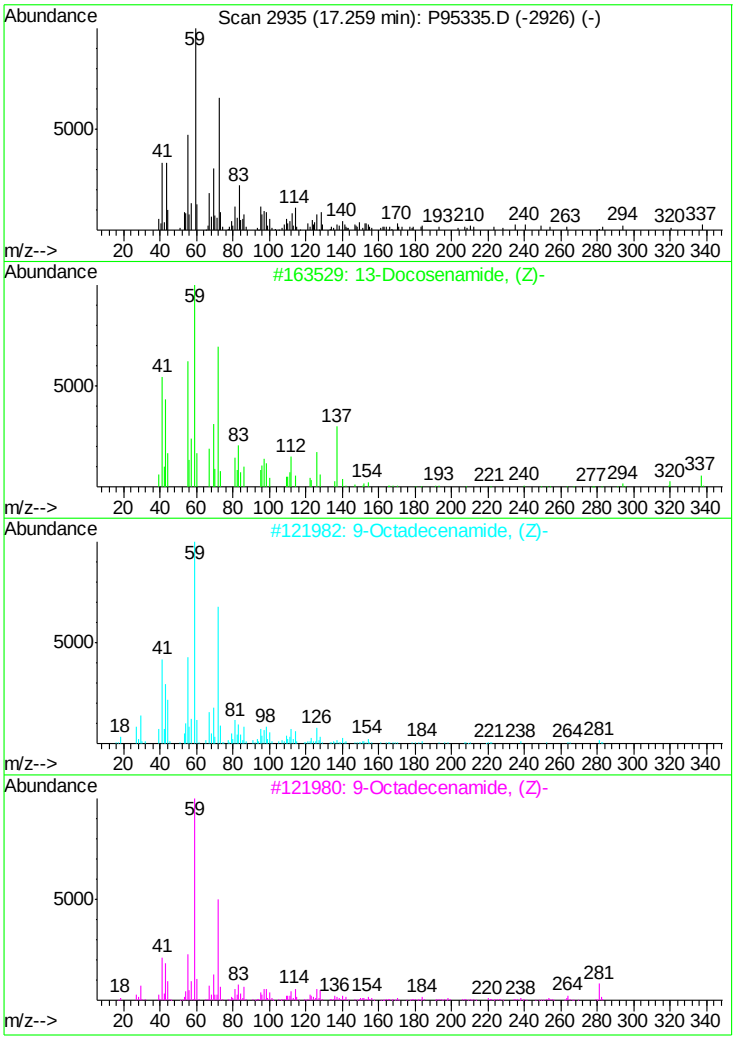
Library Search Compound Report

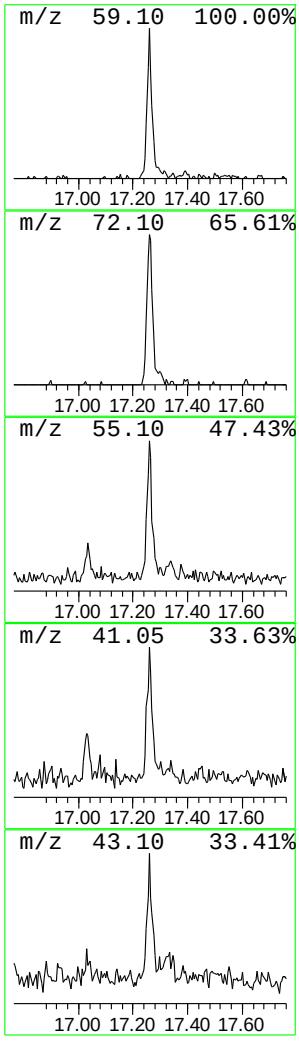
```
Data File : C:\MSDCHEM\1\DATA\EP4119\P95335.D            Vial: 9
Acq On    :  9 May 2015   7:04 pm                    Operator: kristis
Sample    : jb94209-15                               Inst    : MSP
Misc      : op83797,ep4119,960,,,1,1                 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Library      : C:\DATABASE\NIST08.L
 ******************************************************************
 Peak Number  1  unknown                          Concentration Rank  1

   R.T.   EstConc           Area       Relative to ISTD         R.T.
 ------------------------------------------------------------------
  17.26    5.62 ppm        129896    Perylene-d12                18.06

  Hit# of  5    Tentative ID              MW  MolForm       CAS#       Qual
 ------------------------------------------------------------------------
  1 13-Docosenamide, (Z)-                 337 C22H43NO       000112-84-5 90
  2 9-Octadecenamide, (Z)-                281 C18H35NO       000301-02-0 87
  3 9-Octadecenamide, (Z)-                281 C18H35NO       000301-02-0 83
  4 Tetradecanamide                       227 C14H29NO       000638-58-4 72
```





Tentatively Identified Compound (LSC) summary

Operator ID: kristis Date Acquired: 9 May 2015 7:04 pm
Data File: C:\MSDCHEM\1\DATA\EP4119\P95335.D
Name: jb94209-15
Misc: op83797,ep4119,960,,,1,1
Method: C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title: Semi Volatile Extractables by GC/MS
Library Searched: C:\DATABASE\NIST08.L

					Internal Standard		
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown	17.26	5.6	ppm	129896	11	18.06	924992	40.0

9.1.33

9

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4119\P95336.D Vial: 10
Acq On : 9 May 2015 7:32 pm Operator: kristis
Sample : jb94209-16 Inst : MSP
Misc : op83797,ep4119,900,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 09 19:55:07 2015 Quant Results File: MP4082.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed May 06 14:38:22 2015
Response via : Initial Calibration
DataAcq Meth : MP4082

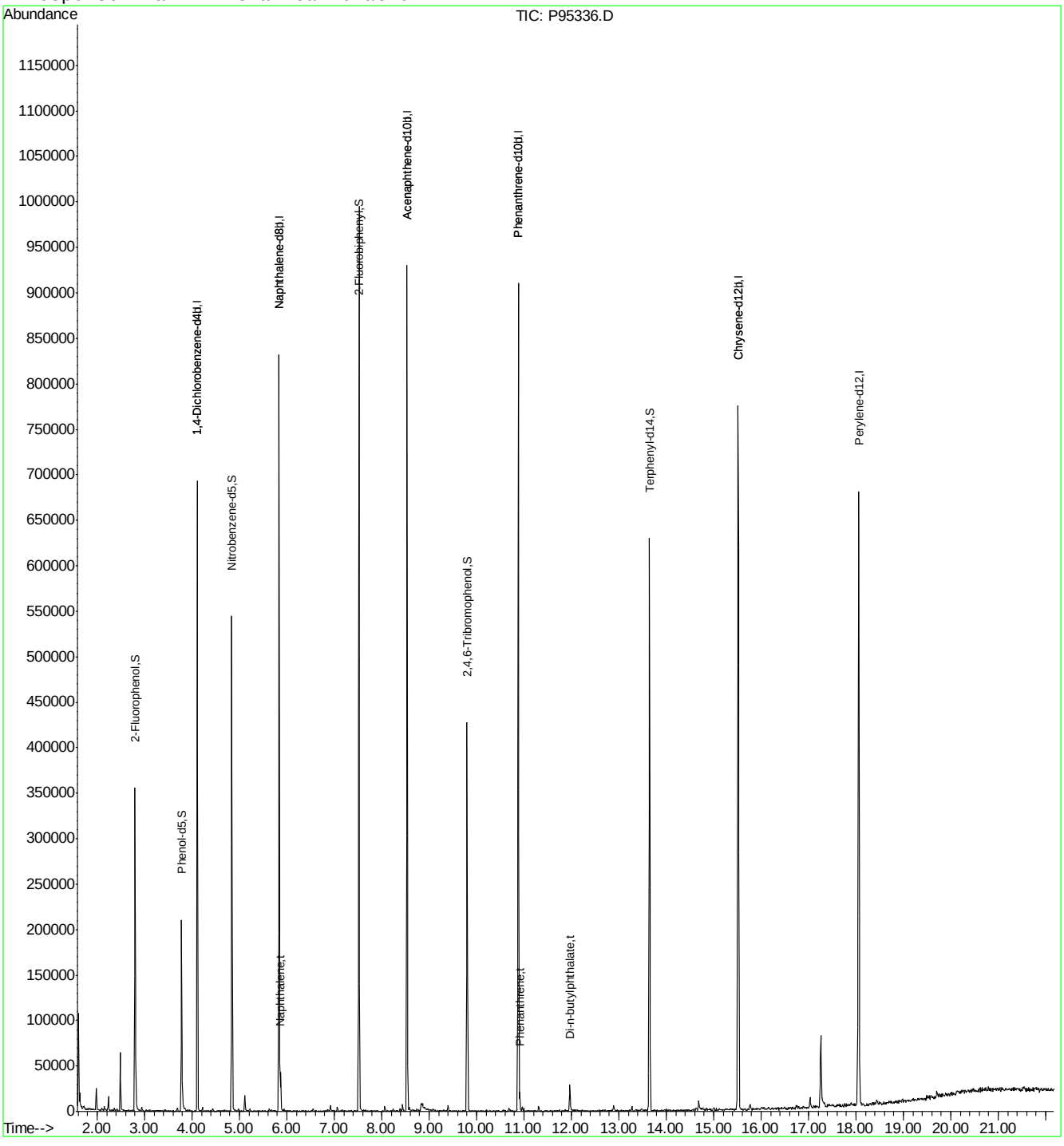
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.11	152	106134	40.00	ppm	-0.04
24) Naphthalene-d8	5.84	136	390604	40.00	ppm	-0.05
47) Acenaphthene-d10	8.54	164	232551	40.00	ppm	-0.05
69) Phenanthrene-d10	10.88	188	384180	40.00	ppm	-0.05
83) Chrysene-d12	15.52	240	383157	40.00	ppm	-0.06
92) Perylene-d12	18.06	264	338667	40.00	ppm	-0.06
102) 1,4-Dichlorobenzene-d4b	4.11	152	106134	40.00	ppm	-0.04
104) Phenanthrene-d10b	10.88	188	384180	40.00	ppm	-0.05
106) Chrysene-d12b	15.52	240	383157	40.00	ppm	-0.06
108) Naphthalene-d8b	5.84	136	390604	40.00	ppm	-0.05
110) Acenaphthene-d10b	8.54	164	232551	40.00	ppm	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	2.80	112	99211	23.58	ppm	-0.04
Spiked Amount 50.000			Recovery = 47.16%			
8) Phenol-d5	3.78	99	89733	17.28	ppm	-0.04
Spiked Amount 50.000			Recovery = 34.56%			
25) Nitrobenzene-d5	4.84	82	194760	47.02	ppm	-0.05
Spiked Amount 50.000			Recovery = 94.04%			
51) 2-Fluorobiphenyl	7.52	172	339146	44.11	ppm	-0.05
Spiked Amount 50.000			Recovery = 88.22%			
73) 2,4,6-Tribromophenol	9.80	330	49915	51.99	ppm	-0.05
Spiked Amount 50.000			Recovery = 103.98%			
85) Terphenyl-d14	13.65	244	262488	33.43	ppm	-0.05
Spiked Amount 50.000			Recovery = 66.86%			
Target Compounds						Qvalue
38) Naphthalene	5.87	128	17772	1.70	ppm	96
77) Phenanthrene	10.91	178	8349	0.74	ppm	93
80) Di-n-butylphthalate	11.97	149	16064	1.26	ppm	98

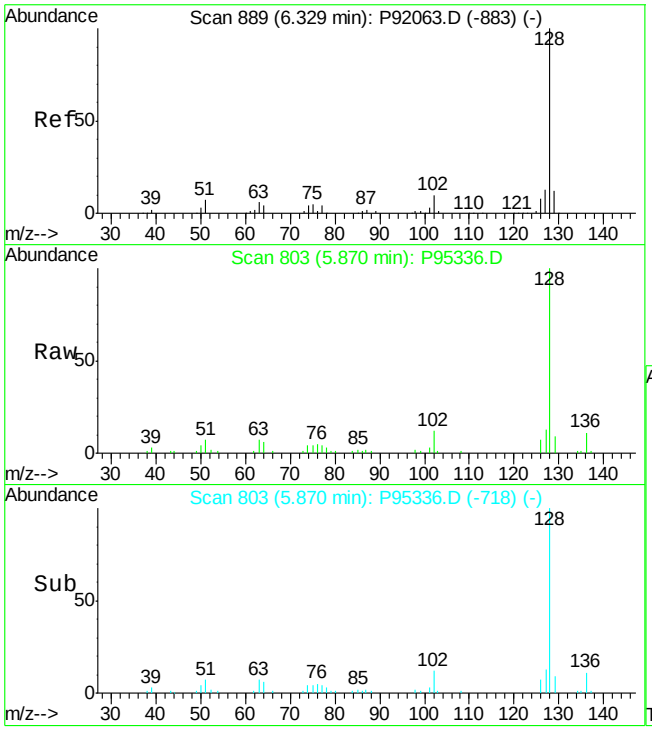
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4119\P95336.D Vial: 10
Acq On : 9 May 2015 7:32 pm Operator: kristis
Sample : jb94209-16 Inst : MSP
Misc : op83797,ep4119,900,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 10 12:08 2015 Quant Results File: MP4082.RES

Method : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed May 06 14:38:22 2015
Response via : Initial Calibration

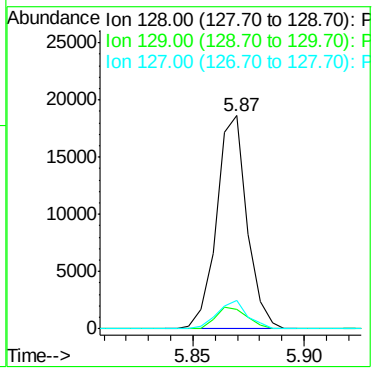


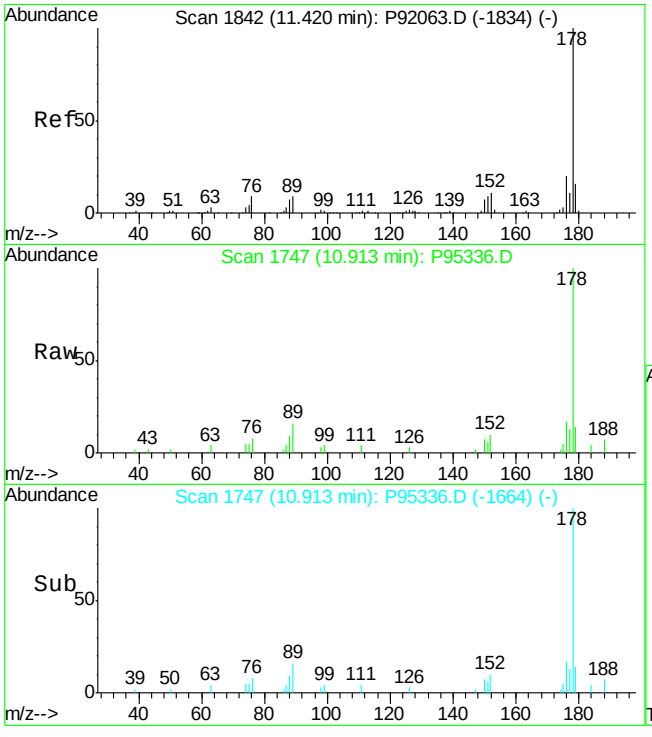


#38
Naphthalene
Concen: 1.70 ppm
RT: 5.87 min Scan# 803
Delta R.T. -0.05 min
Lab File: P95336.D
Acq: 9 May 2015 7:32 pm

Tgt Ion:128 Resp: 17772

Ion	Ratio	Lower	Upper
128	100		
129	9.0	0.0	42.0
127	13.3	0.0	43.4

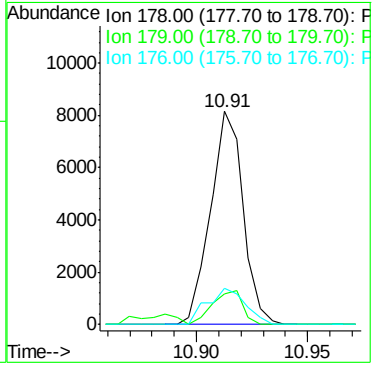


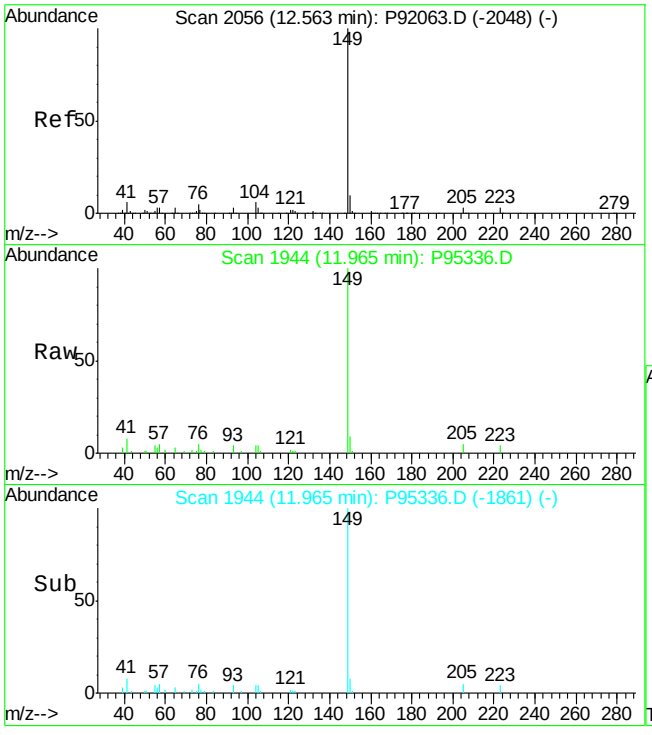


#77
Phenanthrene
Concen: 0.74 ppm
RT: 10.91 min Scan# 1747
Delta R.T. -0.06 min
Lab File: P95336.D
Acq: 9 May 2015 7:32 pm

Tgt Ion:178 Resp: 8349

Ion	Ratio	Lower	Upper
178	100		
179	11.8	0.0	46.0
176	17.0	0.0	49.4

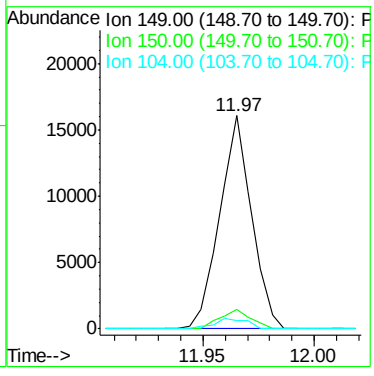




#80
Di-n-butylphthalate
Concen: 1.26 ppm
RT: 11.97 min Scan# 1944
Delta R.T. -0.06 min
Lab File: P95336.D
Acq: 9 May 2015 7:32 pm

Tgt Ion:149 Resp: 16064

Ion	Ratio	Lower	Upper
149	100		
150	9.4	0.0	39.3
104	4.0	0.0	35.4



9.1.34

9

LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\EP4119\P95336.D Vial: 10
Acq On : 9 May 2015 7:32 pm Operator: kristis
Sample : jb94209-16 Inst : MSP
Misc : op83797,ep4119,900,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.018	81	82	88	rVB3	1549	2239	0.20%	0.022%
2	2.098	94	97	102	rVB5	2762	3195	0.29%	0.032%
3	2.151	102	107	110	rBV4	4744	5391	0.48%	0.053%
4	2.237	118	123	133	rVB	16133	15661	1.41%	0.155%
5	2.301	133	135	140	rVV2	1522	2275	0.20%	0.022%
6	2.365	140	147	153	rVV5	3221	6322	0.57%	0.062%
7	2.419	153	157	160	rVB2	2881	3130	0.28%	0.031%
8	2.488	165	170	181	rBV	64286	59217	5.32%	0.584%
9	2.739	210	217	221	rBV2	1225	1958	0.18%	0.019%
10	2.798	221	228	243	rBV	355755	342943	30.81%	3.383%
11	2.942	250	255	259	rVB3	4313	5514	0.50%	0.054%
12	3.033	265	272	275	rBV2	1849	2453	0.22%	0.024%
13	3.439	346	348	356	rVB3	1658	2403	0.22%	0.024%
14	3.690	391	395	400	rVV2	4064	4400	0.40%	0.043%
15	3.781	406	412	430	rBV	210478	247635	22.25%	2.443%
16	3.909	430	436	440	rVB2	2103	2649	0.24%	0.026%
17	3.952	440	444	453	rBV3	1899	3123	0.28%	0.031%
18	4.112	467	474	484	rBV	693329	654874	58.84%	6.461%
19	4.219	490	494	499	rVB2	5431	5383	0.48%	0.053%
20	4.438	529	535	540	rVB	3278	3899	0.35%	0.038%
21	4.839	603	610	622	rBV	544612	545688	49.03%	5.384%
22	4.908	622	623	629	rVV2	2177	2321	0.21%	0.023%
23	4.972	629	635	640	rVB4	2672	3405	0.31%	0.034%
24	5.111	652	661	669	rBV	17055	21719	1.95%	0.214%
25	5.218	677	681	685	rBV3	2919	3255	0.29%	0.032%
26	5.629	748	758	764	rBV3	2680	4614	0.41%	0.046%
27	5.838	787	797	810	rBV	831398	868894	78.07%	8.572%
28	6.548	926	930	938	rVB2	2699	4567	0.41%	0.045%
29	6.858	982	988	995	rBV	1738	4322	0.39%	0.043%
30	6.917	995	999	1003	rVV	6646	7635	0.69%	0.075%
31	7.061	1022	1026	1031	rVB2	4261	4751	0.43%	0.047%
32	7.162	1042	1045	1051	rVB2	1648	1928	0.17%	0.019%
33	7.430	1091	1095	1100	rBV2	1151	2102	0.19%	0.021%
34	7.520	1103	1112	1124	rBV	995849	1015940	91.28%	10.023%
35	7.617	1124	1130	1135	rVB2	1673	3124	0.28%	0.031%
36	8.065	1210	1214	1221	rVB	6145	7162	0.64%	0.071%
37	8.242	1242	1247	1251	rBV2	2506	3181	0.29%	0.031%
38	8.386	1271	1274	1277	rBV2	2802	3190	0.29%	0.031%

39	8.439	1280	1284	1289	rVB	8129	8579	0.77%	0.085%
40	8.535	1294	1302	1308	rVV	929914	978045	87.87%	9.649%
41	8.583	1308	1311	1316	rVB	4477	5684	0.51%	0.056%
42	8.744	1337	1341	1345	rBV2	2905	2738	0.25%	0.027%
43	8.781	1345	1348	1353	rVB2	1665	1982	0.18%	0.020%
44	8.829	1353	1357	1360	rBV4	8976	13902	1.25%	0.137%
45	8.867	1361	1364	1367	rVV4	6988	9289	0.83%	0.092%
46	8.899	1367	1370	1378	rVB5	3202	6394	0.57%	0.063%
47	9.080	1398	1404	1410	rBV3	1920	3103	0.28%	0.031%
48	9.214	1424	1429	1431	rBV	1480	1987	0.18%	0.020%
49	9.310	1441	1447	1451	rBV2	1648	2362	0.21%	0.023%
50	9.401	1461	1464	1473	rVB	6435	7893	0.71%	0.078%
51	9.802	1527	1539	1548	rBV2	427193	480817	43.20%	4.744%
52	10.683	1701	1704	1707	rBV	4111	3986	0.36%	0.039%
53	10.881	1730	1741	1746	rBV2	910996	1040129	93.45%	10.262%
54	10.913	1746	1747	1751	rVV	21052	14801	1.33%	0.146%
55	10.966	1751	1757	1759	rVV	5146	7478	0.67%	0.074%
56	10.993	1759	1762	1766	rVB	3962	3681	0.33%	0.036%
57	11.089	1775	1780	1785	rVB2	1001	2080	0.19%	0.021%
58	11.308	1816	1821	1827	rVV3	5288	7018	0.63%	0.069%
59	11.634	1878	1882	1886	rBV3	1201	1973	0.18%	0.019%
60	11.864	1920	1925	1934	rBV2	1902	3499	0.31%	0.035%
61	11.965	1936	1944	1955	rBV	29127	37888	3.40%	0.374%
62	12.889	2113	2117	2125	rVB	6032	8326	0.75%	0.082%
63	13.274	2183	2189	2194	rVB3	5663	7372	0.66%	0.073%
64	13.349	2198	2203	2211	rBV4	2262	5715	0.51%	0.056%
65	13.477	2224	2227	2233	rBV5	2489	3766	0.34%	0.037%
66	13.541	2235	2239	2244	rBV2	1532	2025	0.18%	0.020%
67	13.648	2251	2259	2272	rBV2	630172	804275	72.26%	7.935%
68	13.883	2298	2303	2305	rBV	1164	1967	0.18%	0.019%
69	14.626	2438	2442	2446	rBV3	3229	4477	0.40%	0.044%
70	14.684	2446	2453	2460	rVV3	10765	16361	1.47%	0.161%
71	14.764	2464	2468	2472	rVB4	2220	3201	0.29%	0.032%
72	14.850	2479	2484	2487	rVB5	2303	3236	0.29%	0.032%
73	14.994	2507	2511	2513	rBV2	2510	2995	0.27%	0.030%
74	15.112	2530	2533	2540	rBV4	1856	3141	0.28%	0.031%
75	15.192	2547	2548	2554	rBV2	1830	2742	0.25%	0.027%
76	15.443	2593	2595	2598	rBV3	1794	2095	0.19%	0.021%
77	15.518	2598	2609	2622	rVV2	774724	1113023	100.00%	10.981%
78	15.592	2622	2623	2627	rVV4	1803	2132	0.19%	0.021%
79	15.657	2629	2635	2638	rVB6	2182	3398	0.31%	0.034%
80	15.763	2649	2655	2662	rVB3	6976	11216	1.01%	0.111%
81	15.822	2662	2666	2670	rBV3	2568	3864	0.35%	0.038%
82	16.009	2697	2701	2708	rVV5	2924	5818	0.52%	0.057%
83	16.057	2708	2710	2715	rVB4	2695	2187	0.20%	0.022%
84	16.159	2722	2729	2736	rVB7	2885	5135	0.46%	0.051%
85	16.223	2737	2741	2744	rBV3	1888	2436	0.22%	0.024%
86	16.356	2765	2766	2769	rVB3	3295	2435	0.22%	0.024%
87	16.378	2769	2770	2776	rBV4	2341	4325	0.39%	0.043%
88	16.426	2776	2779	2785	rVB4	2218	2972	0.27%	0.029%
89	16.490	2785	2791	2793	rBV4	2320	2937	0.26%	0.029%
90	16.581	2804	2808	2810	rBV4	2722	2566	0.23%	0.025%
91	16.666	2820	2824	2827	rBV4	2805	3429	0.31%	0.034%
92	16.693	2827	2829	2833	rVB2	2290	2683	0.24%	0.026%
93	16.741	2833	2838	2839	rBV3	4772	6292	0.57%	0.062%
94	16.757	2839	2841	2844	rVB3	3416	3073	0.28%	0.030%
95	16.885	2862	2865	2867	rBV4	2719	2663	0.24%	0.026%

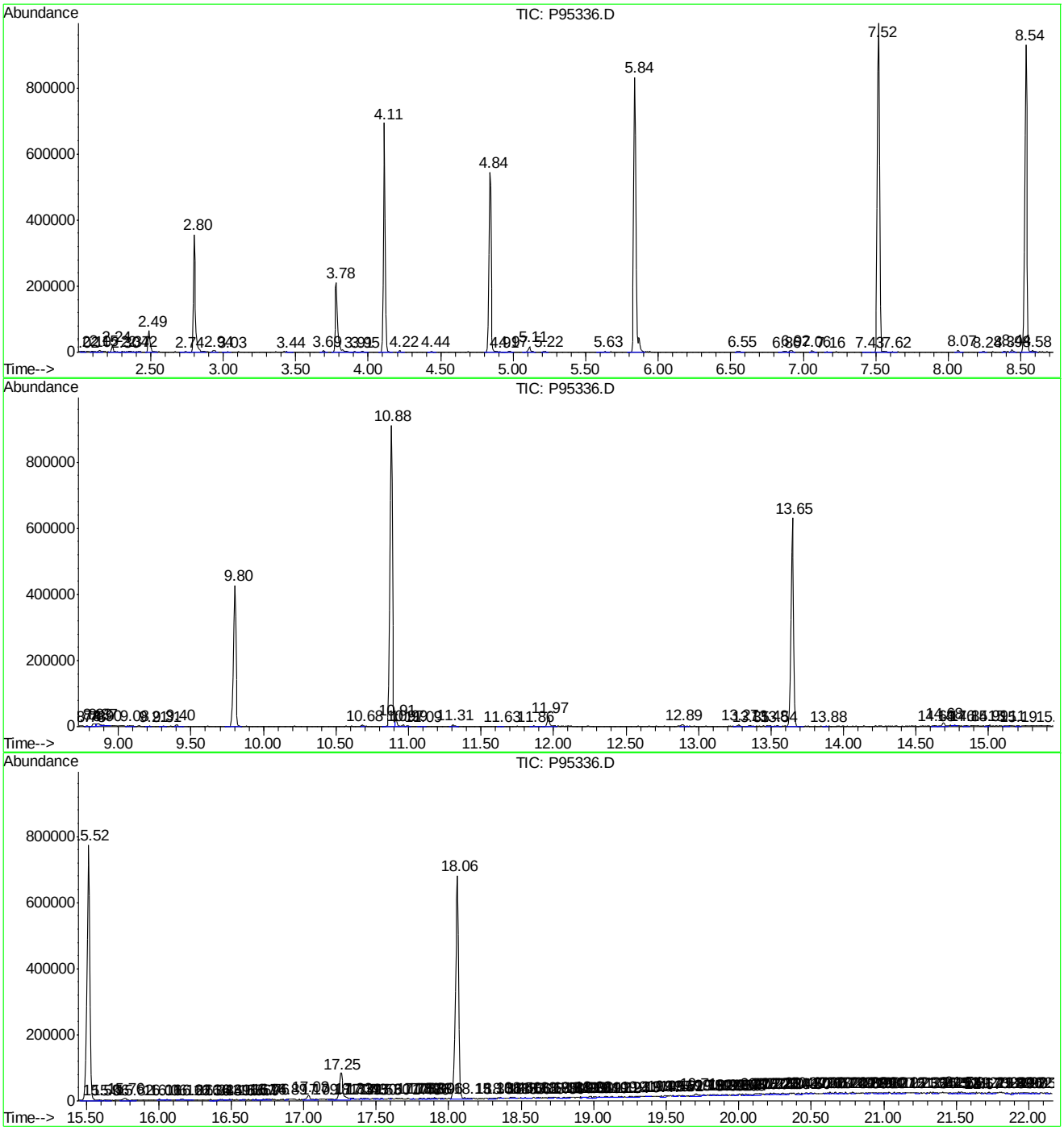
96	17.035	2885	2893	2900	rVB6	11905	19882	1.79%	0.196%
97	17.094	2900	2904	2905	rBV4	2562	2213	0.20%	0.022%
98	17.179	2918	2920	2926	rVV4	2496	2896	0.26%	0.029%
99	17.254	2926	2934	2947	rVV2	79996	135026	12.13%	1.332%
100	17.334	2947	2949	2954	rVB5	4552	5914	0.53%	0.058%
101	17.393	2957	2960	2962	rVB4	3005	2608	0.23%	0.026%
102	17.409	2962	2963	2965	rBV2	2918	2145	0.19%	0.021%
103	17.430	2965	2967	2971	rVV5	2207	2287	0.21%	0.023%
104	17.500	2976	2980	2984	rVV3	2101	3363	0.30%	0.033%
105	17.532	2984	2986	2989	rVB4	1738	2057	0.18%	0.020%
106	17.596	2997	2998	3000	rBV2	3122	2108	0.19%	0.021%
107	17.756	3024	3028	3030	rBV4	4234	3001	0.27%	0.030%
108	17.799	3035	3036	3039	rBV3	3932	2961	0.27%	0.029%
109	17.831	3039	3042	3045	rVV4	2791	2687	0.24%	0.027%
110	17.863	3045	3048	3050	rVV2	2344	2678	0.24%	0.026%
111	17.879	3050	3051	3054	rVV3	3305	3760	0.34%	0.037%
112	17.900	3054	3055	3059	rVV3	4195	3677	0.33%	0.036%
113	17.959	3063	3066	3067	rVB3	3248	2761	0.25%	0.027%
114	18.061	3075	3085	3096	rBV2	675311	1015852	91.27%	10.022%
115	18.151	3097	3102	3104	rVB5	2702	2810	0.25%	0.028%
116	18.301	3124	3130	3135	rBV10	2734	6058	0.54%	0.060%
117	18.360	3138	3141	3144	rVB4	2809	2417	0.22%	0.024%
118	18.440	3151	3156	3162	rVB9	4934	9596	0.86%	0.095%
119	18.499	3166	3167	3169	rBV2	3711	2018	0.18%	0.020%
120	18.525	3169	3172	3175	rVB4	2548	3386	0.30%	0.033%
121	18.563	3175	3179	3180	rBV4	2194	2396	0.22%	0.024%
122	18.616	3186	3189	3191	rVB3	2073	1981	0.18%	0.020%
123	18.691	3201	3203	3210	rVV7	2713	4946	0.44%	0.049%
124	18.750	3213	3214	3220	rVB5	2611	2101	0.19%	0.021%
125	18.798	3220	3223	3225	rVB4	2338	2684	0.24%	0.026%
126	18.835	3225	3230	3231	rBV5	3633	4188	0.38%	0.041%
127	18.910	3243	3244	3246	rBV2	3820	2183	0.20%	0.022%
128	18.931	3246	3248	3252	rVB5	2483	3313	0.30%	0.033%
129	18.985	3252	3258	3259	rVB6	4665	6804	0.61%	0.067%
130	19.001	3259	3261	3265	rBV5	3644	5039	0.45%	0.050%
131	19.038	3265	3268	3270	rVB3	2639	2267	0.20%	0.022%
132	19.097	3270	3279	3281	rBV8	2805	7370	0.66%	0.073%
133	19.118	3281	3283	3289	rVB5	1836	2510	0.23%	0.025%
134	19.193	3290	3297	3298	rBV6	1997	2517	0.23%	0.025%
135	19.241	3303	3306	3313	rBV9	1857	2806	0.25%	0.028%
136	19.305	3313	3318	3320	rBV5	2464	3283	0.29%	0.032%
137	19.369	3327	3330	3334	rVB5	1928	2577	0.23%	0.025%
138	19.466	3346	3348	3350	rVB2	3005	1980	0.18%	0.020%
139	19.487	3350	3352	3354	rBV3	5099	4415	0.40%	0.044%
140	19.546	3362	3363	3366	rVB3	4421	2834	0.25%	0.028%
141	19.572	3366	3368	3369	rBV2	4089	2306	0.21%	0.023%
142	19.615	3373	3376	3379	rVV5	2687	3320	0.30%	0.033%
143	19.706	3385	3393	3400	rVV5	7689	13888	1.25%	0.137%
144	19.754	3400	3402	3406	rBV3	4199	3951	0.35%	0.039%
145	19.808	3410	3412	3413	rVB2	3590	1979	0.18%	0.020%
146	19.824	3413	3415	3423	rBV8	3196	6194	0.56%	0.061%
147	19.893	3423	3428	3429	rBV3	3193	3066	0.28%	0.030%
148	19.909	3430	3431	3434	rVB3	2906	2531	0.23%	0.025%
149	19.952	3438	3439	3443	rVB4	3393	3395	0.31%	0.033%
150	19.994	3443	3447	3448	rBV3	4215	4311	0.39%	0.043%
151	20.021	3451	3452	3455	rVB3	3679	2580	0.23%	0.025%

152	20.048	3455	3457	3460	rBV4	3487	3133	0.28%	0.031%
153	20.069	3460	3461	3465	rVB4	2302	2270	0.20%	0.022%
154	20.128	3465	3472	3477	rBV8	5427	14823	1.33%	0.146%
155	20.203	3482	3486	3488	rBV4	3232	2943	0.26%	0.029%
156	20.219	3488	3489	3491	rBV2	3823	2602	0.23%	0.026%
157	20.240	3491	3493	3495	rVV3	3143	2282	0.21%	0.023%
158	20.272	3496	3499	3501	rVB4	3252	3398	0.31%	0.034%
159	20.304	3501	3505	3509	rBV6	3905	4576	0.41%	0.045%
160	20.342	3509	3512	3513	rBV3	2259	2403	0.22%	0.024%
161	20.411	3521	3525	3528	rVB6	3527	4230	0.38%	0.042%
162	20.433	3528	3529	3531	rBV2	4429	3045	0.27%	0.030%
163	20.470	3533	3536	3538	rVV4	3834	3318	0.30%	0.033%
164	20.497	3538	3541	3545	rVV5	2958	3493	0.31%	0.034%
165	20.598	3558	3560	3564	rVB5	4283	4342	0.39%	0.043%
166	20.630	3564	3566	3568	rBV3	5407	3898	0.35%	0.038%
167	20.668	3570	3573	3576	rVV5	5028	5541	0.50%	0.055%
168	20.716	3576	3582	3583	rVV6	3583	5017	0.45%	0.049%
169	20.737	3583	3586	3588	rVB4	4095	3179	0.29%	0.031%
170	20.785	3593	3595	3598	rBV4	4589	3872	0.35%	0.038%
171	20.881	3610	3613	3614	rVB3	3831	3385	0.30%	0.033%
172	20.892	3614	3615	3618	rBV3	4057	3852	0.35%	0.038%
173	20.945	3622	3625	3627	rVV4	3580	3441	0.31%	0.034%
174	20.977	3627	3631	3634	rVB6	3553	5489	0.49%	0.054%
175	21.004	3634	3636	3638	rBV3	3155	2277	0.20%	0.022%
176	21.020	3638	3639	3641	rVV2	2984	2363	0.21%	0.023%
177	21.074	3645	3649	3651	rBV5	4559	4869	0.44%	0.048%
178	21.100	3651	3654	3658	rVB6	3078	3089	0.28%	0.030%
179	21.148	3658	3663	3664	rBV5	3131	2679	0.24%	0.026%
180	21.229	3675	3678	3681	rVB5	2731	2803	0.25%	0.028%
181	21.298	3689	3691	3692	rBV2	2752	1984	0.18%	0.020%
182	21.341	3697	3699	3701	rBV3	3777	2041	0.18%	0.020%
183	21.362	3701	3703	3706	rVB4	2394	1960	0.18%	0.019%
184	21.453	3718	3720	3723	rVB4	3421	3236	0.29%	0.032%
185	21.496	3723	3728	3730	rBV6	3355	4608	0.41%	0.045%
186	21.517	3730	3732	3734	rVV3	4844	5286	0.47%	0.052%
187	21.538	3734	3736	3744	rVB9	6647	11853	1.06%	0.117%
188	21.592	3744	3746	3747	rBV2	4047	2607	0.23%	0.026%
189	21.608	3747	3749	3753	rBV5	3780	4579	0.41%	0.045%
190	21.672	3760	3761	3764	rBV3	3277	3419	0.31%	0.034%
191	21.725	3768	3771	3775	rVB5	4979	5726	0.51%	0.056%
192	21.752	3775	3776	3780	rBV4	4508	5832	0.52%	0.058%
193	21.843	3792	3793	3797	rVB4	3791	3072	0.28%	0.030%
194	21.886	3799	3801	3802	rBV2	4407	3567	0.32%	0.035%
195	21.896	3802	3803	3807	rVV4	3793	3443	0.31%	0.034%
196	21.955	3810	3814	3816	rVV5	3103	4548	0.41%	0.045%
197	21.982	3816	3819	3825	rVV8	3073	5524	0.50%	0.054%
198	22.025	3825	3827	3830	rVV4	3306	2944	0.26%	0.029%
199	22.046	3830	3831	3836	rVB4	3208	2325	0.21%	0.023%
200	22.121	3844	3845	3849	rVB4	3285	2747	0.25%	0.027%

Sum of corrected areas: 10135837

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\EP4119\P95336.D
Operator : kristis
Acquired : 9 May 2015 7:32 pm using AcqMethod MP4082
Instrument : MSP
Sample Name: jb94209-16
Misc Info : op83797,ep4119,900,,,1,1
Vial Number: 10
Quant File :MP4082.RES (RTE Integrator)



Library Search Compound Report

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Data File : C:\MSDCHEM\1\DATA\EP4119\P95336.D            Vial: 10
Acq On    :  9 May 2015   7:32 pm                    Operator: kristis
Sample    : jb94209-16                               Inst    : MSP
Misc      : op83797,ep4119,900,,,1,1                 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Library      : C:\DATABASE\NIST08.L
 ******************************************************************
 Peak Number  1  unknown                          Concentration Rank  1

   R.T.   EstConc           Area       Relative to ISTD         R.T.
 ------------------------------------------------------------------
  17.25    5.32 ppm        135026    Perylene-d12                18.06

  Hit# of  5    Tentative ID              MW  MolForm       CAS#       Qual
 ------------------------------------------------------------------------
  1 9-Octadecenamide, (Z)-               281 C18H35NO       000301-02-0 58
  2 13-Docosenamide, (Z)-                337 C22H43NO       000112-84-5 53
  3 9-Octadecenamide, (Z)-               281 C18H35NO       000301-02-0 52
  4 Octadecanamide                       283 C18H37NO       000124-26-5 50
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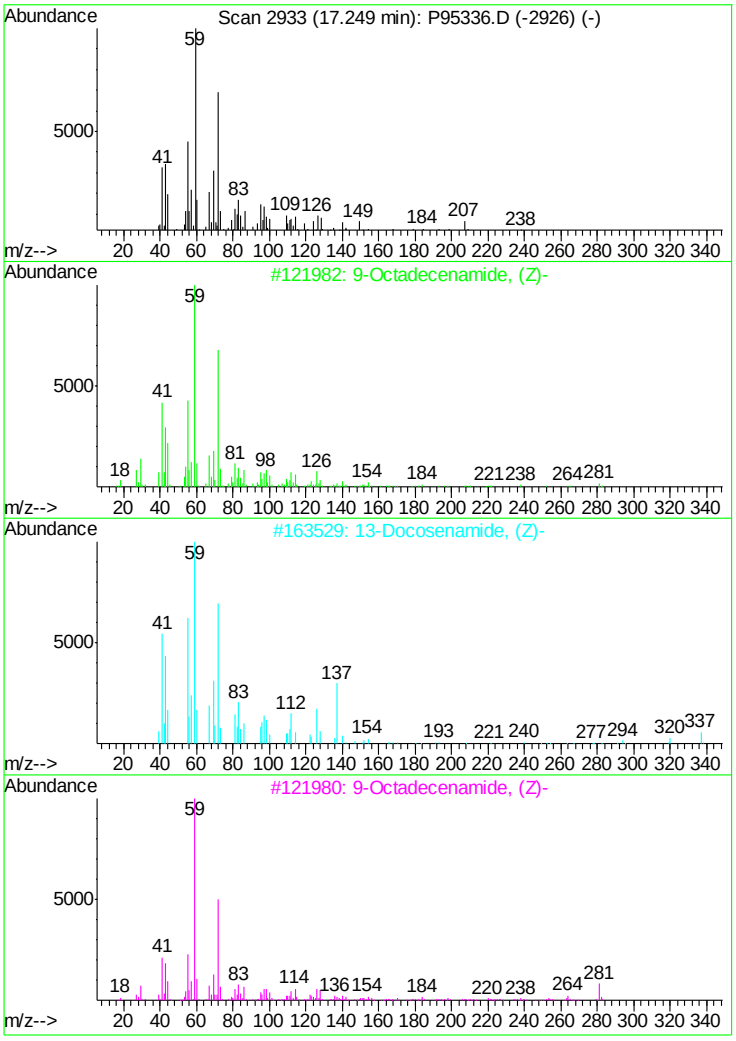
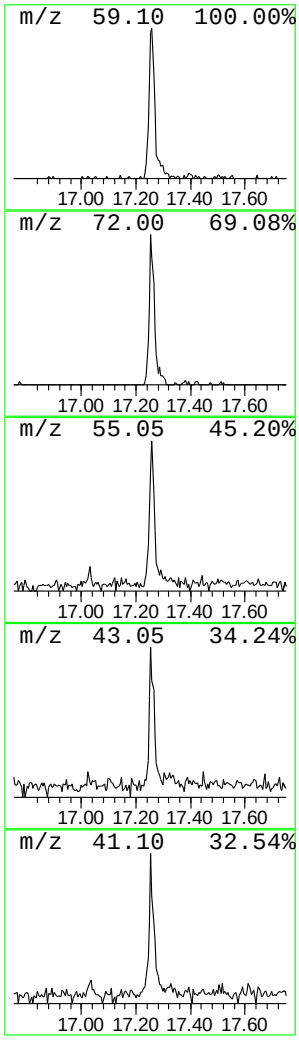




Tentatively Identified Compound (LSC) summary

Operator ID: kristis Date Acquired: 9 May 2015 7:32 pm
Data File: C:\MSDCHEM\1\DATA\EP4119\P95336.D
Name: jb94209-16
Misc: op83797,ep4119,900,,,1,1
Method: C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title: Semi Volatile Extractables by GC/MS
Library Searched: C:\DATABASE\NIST08.L

						--Internal Standard---|		
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown	17.25	5.3	ppm	135026	11	18.06	1015850	40.0

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4119\P95337.D Vial: 11
Acq On : 9 May 2015 8:01 pm Operator: kristis
Sample : jb94209-17 Inst : MSP
Misc : op83797,ep4119,930,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 09 20:23:33 2015 Quant Results File: MP4082.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed May 06 14:38:22 2015
Response via : Initial Calibration
DataAcq Meth : MP4082

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.11	152	92649	40.00	ppm	-0.04
24) Naphthalene-d8	5.84	136	348059	40.00	ppm	-0.05
47) Acenaphthene-d10	8.54	164	205554	40.00	ppm	-0.05
69) Phenanthrene-d10	10.88	188	341606	40.00	ppm	-0.05
83) Chrysene-d12	15.52	240	341958	40.00	ppm	-0.06
92) Perylene-d12	18.06	264	304689	40.00	ppm	-0.06
102) 1,4-Dichlorobenzene-d4b	4.11	152	92649	40.00	ppm	-0.04
104) Phenanthrene-d10b	10.88	188	341606	40.00	ppm	-0.05
106) Chrysene-d12b	15.52	240	341958	40.00	ppm	-0.06
108) Naphthalene-d8b	5.84	136	348059	40.00	ppm	-0.05
110) Acenaphthene-d10b	8.54	164	205554	40.00	ppm	-0.05

System Monitoring Compounds						
5) 2-Fluorophenol	2.80	112	84214	22.93	ppm	-0.04
Spiked Amount 50.000			Recovery = 45.86%			
8) Phenol-d5	3.78	99	70631	15.58	ppm	-0.04
Spiked Amount 50.000			Recovery = 31.16%			
25) Nitrobenzene-d5	4.84	82	178578	48.38	ppm	-0.05
Spiked Amount 50.000			Recovery = 96.76%			
51) 2-Fluorobiphenyl	7.52	172	311027	45.76	ppm	-0.05
Spiked Amount 50.000			Recovery = 91.52%			
73) 2,4,6-Tribromophenol	9.80	330	44720	52.38	ppm	-0.05
Spiked Amount 50.000			Recovery = 104.76%			
85) Terphenyl-d14	13.65	244	317122	45.25	ppm	-0.05
Spiked Amount 50.000			Recovery = 90.50%			

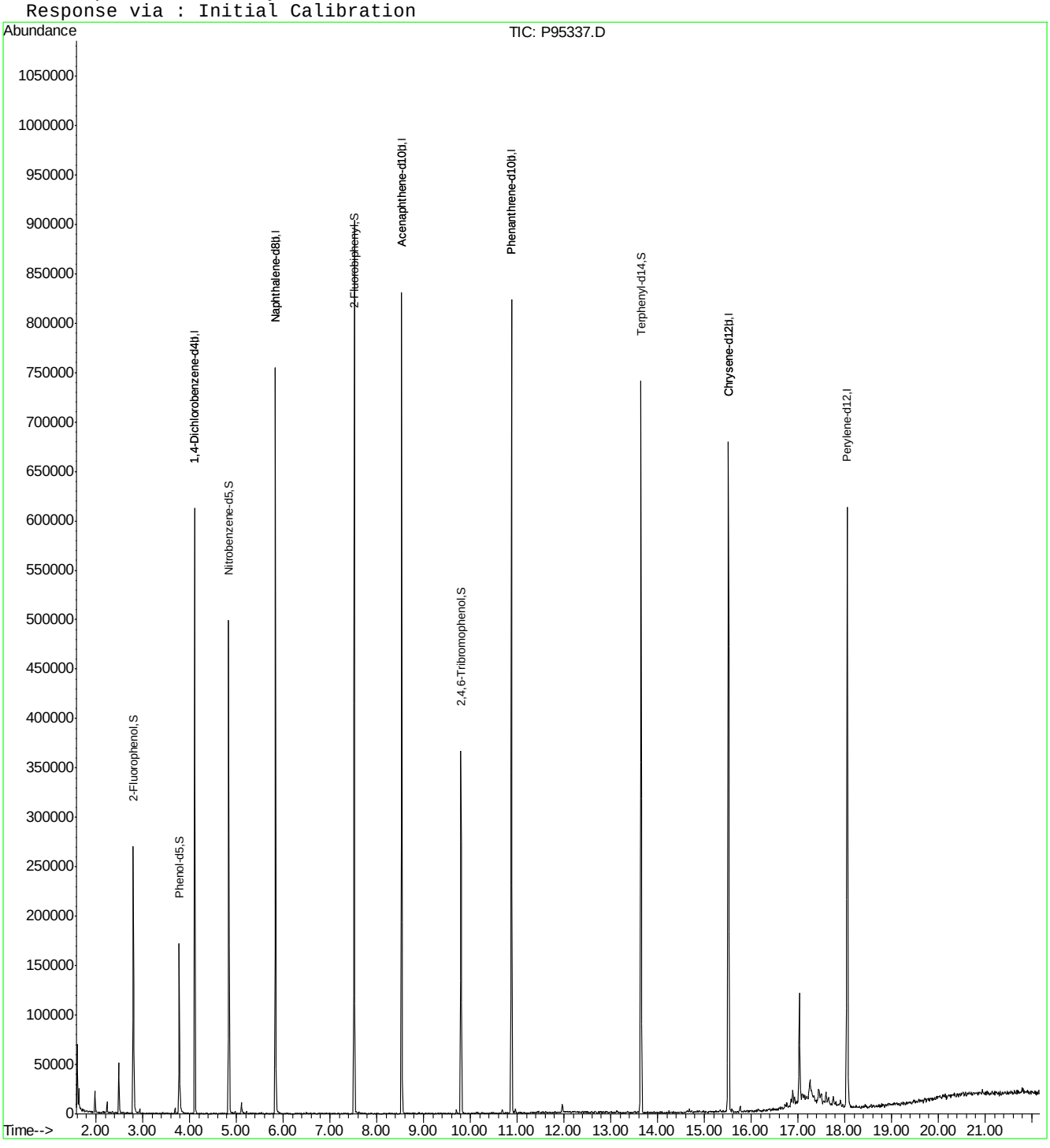
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4119\P95337.D Vial: 11
Acq On : 9 May 2015 8:01 pm Operator: kristis
Sample : jb94209-17 Inst : MSP
Misc : op83797,ep4119,930,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 10 12:09 2015 Quant Results File: MP4082.RES

Method : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed May 06 14:38:22 2015
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\EP4119\P95337.D Vial: 11
Acq On : 9 May 2015 8:01 pm Operator: kristis
Sample : jb94209-17 Inst : MSP
Misc : op83797,ep4119,930,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.237	119	123	128	rVB	11490	10885	1.10%	0.116%
2	2.424	153	158	160	rVB2	1622	1904	0.19%	0.020%
3	2.488	167	170	178	rBV	51150	50046	5.05%	0.533%
4	2.589	186	189	192	rVB3	1575	1842	0.19%	0.020%
5	2.616	192	194	202	rBV	968	2139	0.22%	0.023%
6	2.798	223	228	244	rBV	270212	288635	29.14%	3.072%
7	2.889	244	245	250	rVV3	1521	2031	0.21%	0.022%
8	2.937	250	254	259	rVB2	4797	4404	0.44%	0.047%
9	3.690	392	395	401	rVB	5666	4005	0.40%	0.043%
10	3.781	406	412	428	rBV	171778	197273	19.92%	2.099%
11	4.112	465	474	482	rBV	612650	576979	58.25%	6.140%
12	4.839	604	610	622	rBV	499301	498196	50.30%	5.302%
13	4.972	631	635	640	rVB	2248	2610	0.26%	0.028%
14	5.111	655	661	672	rBV	11443	17403	1.76%	0.185%
15	5.218	677	681	686	rVB	2065	2673	0.27%	0.028%
16	5.373	704	710	713	rBV	1331	1671	0.17%	0.018%
17	5.838	789	797	806	rBV	754809	736454	74.35%	7.837%
18	7.520	1104	1112	1118	rBV	904538	926468	93.54%	9.859%
19	7.558	1118	1119	1125	rVV3	2688	3145	0.32%	0.033%
20	7.611	1125	1129	1137	rVB2	1123	2412	0.24%	0.026%
21	8.535	1295	1302	1311	rBV	831227	864165	87.25%	9.196%
22	8.616	1316	1317	1324	rVV	1207	1964	0.20%	0.021%
23	8.680	1324	1329	1332	rVB	1023	1807	0.18%	0.019%
24	8.909	1367	1372	1378	rBV2	1588	2408	0.24%	0.026%
25	9.305	1442	1446	1450	rBB2	1240	1563	0.16%	0.017%
26	9.705	1514	1521	1530	rVB2	4111	5203	0.53%	0.055%
27	9.801	1530	1539	1551	rBV	367138	407764	41.17%	4.339%
28	10.149	1602	1604	1608	rVB2	1440	1746	0.18%	0.019%
29	10.250	1619	1623	1632	rBV	1469	3401	0.34%	0.036%
30	10.459	1657	1662	1666	rVB	1427	2289	0.23%	0.024%
31	10.683	1699	1704	1708	rBV	4063	4406	0.44%	0.047%
32	10.881	1729	1741	1749	rBV2	823813	926794	93.57%	9.863%
33	10.966	1751	1757	1766	rVB2	5091	7391	0.75%	0.079%
34	11.094	1777	1781	1783	rVB	1233	1557	0.16%	0.017%
35	11.142	1783	1790	1796	rBV4	1651	3840	0.39%	0.041%
36	11.297	1815	1819	1826	rBV3	1442	2439	0.25%	0.026%
37	11.436	1840	1845	1847	rBV	1720	2254	0.23%	0.024%
38	11.458	1847	1849	1855	rVB3	1535	2314	0.23%	0.025%

39	11.548	1862	1866	1869	rBV4	2056	2638	0.27%	0.028%
40	11.613	1872	1878	1882	rBV2	1951	2487	0.25%	0.026%
41	11.757	1900	1905	1908	rBV	1170	1614	0.16%	0.017%
42	11.794	1908	1912	1913	rVB	1280	1575	0.16%	0.017%
43	11.816	1913	1916	1919	rBV	2134	1736	0.18%	0.018%
44	11.965	1935	1944	1949	rBV	8949	12776	1.29%	0.136%
45	12.232	1986	1994	2000	rVB5	1043	2567	0.26%	0.027%
46	12.392	2020	2024	2028	rBV2	2091	2815	0.28%	0.030%
47	12.654	2070	2073	2078	rBV2	1716	1898	0.19%	0.020%
48	12.841	2104	2108	2112	rBV2	1661	2186	0.22%	0.023%
49	12.927	2123	2124	2128	rVB2	2123	1712	0.17%	0.018%
50	13.018	2132	2141	2142	rVB3	1895	4385	0.44%	0.047%
51	13.130	2156	2162	2164	rBV2	2397	2912	0.29%	0.031%
52	13.258	2182	2186	2190	rBV2	1069	1604	0.16%	0.017%
53	13.365	2204	2206	2211	rVB3	1825	2650	0.27%	0.028%
54	13.440	2215	2220	2223	rBV2	1742	2521	0.25%	0.027%
55	13.520	2234	2235	2243	rVB3	1471	1646	0.17%	0.018%
56	13.584	2243	2247	2252	rVV3	1636	2322	0.23%	0.025%
57	13.648	2252	2259	2270	rVB2	740997	970691	98.00%	10.330%
58	13.862	2293	2299	2301	rBV	1373	2365	0.24%	0.025%
59	13.979	2318	2321	2324	rBV	1449	2028	0.20%	0.022%
60	14.187	2356	2360	2363	rBV	1565	1956	0.20%	0.021%
61	14.465	2409	2412	2414	rBV2	1479	2052	0.21%	0.022%
62	14.567	2428	2431	2435	rVB2	1152	1553	0.16%	0.017%
63	14.647	2435	2446	2448	rBV5	2191	5413	0.55%	0.058%
64	14.684	2448	2453	2456	rVV4	3653	4222	0.43%	0.045%
65	14.732	2456	2462	2464	rVB3	1800	2567	0.26%	0.027%
66	14.845	2480	2483	2487	rBV2	1976	1931	0.19%	0.021%
67	14.893	2489	2492	2497	rVB2	2300	2429	0.25%	0.026%
68	14.989	2508	2510	2514	rVB2	2395	2109	0.21%	0.022%
69	15.122	2530	2535	2539	rBV3	1265	2387	0.24%	0.025%
70	15.229	2550	2555	2557	rBV	1256	1691	0.17%	0.018%
71	15.400	2584	2587	2591	rVB2	1499	1581	0.16%	0.017%
72	15.518	2598	2609	2622	rBV2	677851	990460	100.00%	10.540%
73	15.608	2625	2626	2631	rVB2	1813	1709	0.17%	0.018%
74	15.763	2648	2655	2661	rBV6	6354	9927	1.00%	0.106%
75	15.812	2661	2664	2668	rVB2	1483	2017	0.20%	0.021%
76	15.854	2668	2672	2678	rBV4	2188	3910	0.39%	0.042%
77	15.918	2678	2684	2687	rBV3	2015	2970	0.30%	0.032%
78	16.068	2708	2712	2717	rBV3	1613	2120	0.21%	0.023%
79	16.148	2723	2727	2729	rBV3	3101	2907	0.29%	0.031%
80	16.340	2758	2763	2764	rVB4	1585	1932	0.20%	0.021%
81	16.394	2764	2773	2777	rBV6	2243	6580	0.66%	0.070%
82	16.469	2784	2787	2789	rBV4	2995	2083	0.21%	0.022%
83	16.501	2792	2793	2797	rBV2	2012	1947	0.20%	0.021%
84	16.591	2807	2810	2812	rBV3	2044	2083	0.21%	0.022%
85	16.650	2818	2821	2827	rVB7	2745	4227	0.43%	0.045%
86	16.725	2829	2835	2836	rBV3	4440	4552	0.46%	0.048%
87	16.757	2839	2841	2847	rVB5	5399	8184	0.83%	0.087%
88	16.811	2847	2851	2855	rBV6	2106	3170	0.32%	0.034%
89	16.853	2855	2859	2863	rVV6	8431	13652	1.38%	0.145%
90	16.891	2863	2866	2870	rVV4	16482	24410	2.46%	0.260%
91	16.928	2870	2873	2877	rVV4	9428	12844	1.30%	0.137%
92	16.965	2877	2880	2881	rVV2	4187	4544	0.46%	0.048%
93	17.030	2885	2892	2899	rVV2	113598	170083	17.17%	1.810%
94	17.088	2899	2903	2906	rVV3	10899	19343	1.95%	0.206%
95	17.126	2906	2910	2913	rVV5	9252	18450	1.86%	0.196%

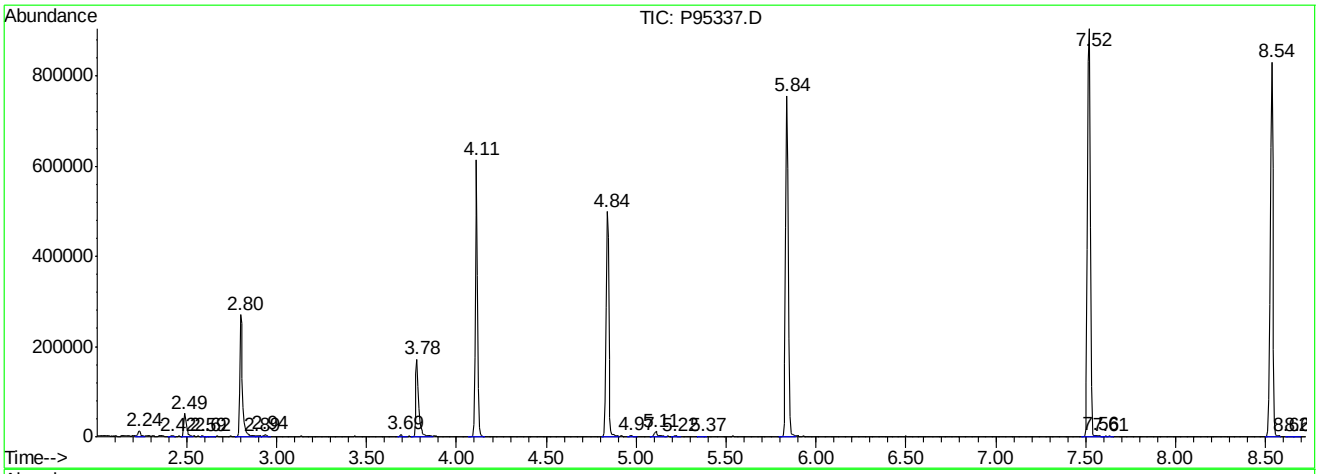
96	17.168	2916	2918	2920	rVV3	7021	8548	0.86%	0.091%
97	17.195	2920	2923	2925	rVV4	7457	10260	1.04%	0.109%
98	17.254	2925	2934	2948	rVV8	22707	81056	8.18%	0.863%
99	17.345	2948	2951	2956	rVB5	6290	9510	0.96%	0.101%
100	17.441	2961	2969	2974	rVV7	15400	37962	3.83%	0.404%
101	17.500	2976	2980	2984	rVB5	10372	17486	1.77%	0.186%
102	17.596	2994	2998	3004	rVV2	10991	18811	1.90%	0.200%
103	17.655	3004	3009	3016	rVB6	7490	12835	1.30%	0.137%
104	17.756	3022	3028	3035	rBV3	9119	16013	1.62%	0.170%
105	17.815	3035	3039	3045	rVV5	3925	5187	0.52%	0.055%
106	17.911	3048	3057	3062	rVB5	7071	14877	1.50%	0.158%
107	17.954	3062	3065	3071	rVB6	3345	5256	0.53%	0.056%
108	18.055	3071	3084	3095	rBV2	607603	924283	93.32%	9.836%
109	18.157	3102	3103	3107	rBV4	2304	1758	0.18%	0.019%
110	18.237	3115	3118	3120	rBV5	2952	2193	0.22%	0.023%
111	18.253	3120	3121	3129	rVB6	1903	3089	0.31%	0.033%
112	18.312	3129	3132	3136	rVB5	2178	2915	0.29%	0.031%
113	18.349	3136	3139	3141	rVB3	2326	2128	0.21%	0.023%
114	18.365	3141	3142	3144	rBV2	2953	1759	0.18%	0.019%
115	18.397	3144	3148	3150	rVV3	1992	2189	0.22%	0.023%
116	18.440	3150	3156	3157	rVV4	3143	3958	0.40%	0.042%
117	18.451	3157	3158	3161	rVB2	2841	1863	0.19%	0.020%
118	18.525	3168	3172	3174	rBV5	1763	2134	0.22%	0.023%
119	18.568	3174	3180	3183	rVB5	3531	4145	0.42%	0.044%
120	18.616	3187	3189	3193	rVB4	2609	1881	0.19%	0.020%
121	18.654	3193	3196	3198	rBV4	1786	2417	0.24%	0.026%
122	18.734	3209	3211	3214	rVB4	3106	2811	0.28%	0.030%
123	18.760	3214	3216	3218	rBV3	2360	1603	0.16%	0.017%
124	18.835	3227	3230	3234	rVB4	3124	4115	0.42%	0.044%
125	18.867	3234	3236	3240	rBV5	3060	4133	0.42%	0.044%
126	18.915	3240	3245	3246	rVB3	2149	3145	0.32%	0.033%
127	18.947	3246	3251	3253	rBV5	3067	3728	0.38%	0.040%
128	19.049	3269	3270	3275	rVB5	2848	3109	0.31%	0.033%
129	19.145	3285	3288	3290	rBV4	2255	1937	0.20%	0.021%
130	19.172	3290	3293	3296	rVB4	2931	3482	0.35%	0.037%
131	19.215	3296	3301	3302	rBV4	3859	4757	0.48%	0.051%
132	19.247	3304	3307	3310	rVB5	3674	3632	0.37%	0.039%
133	19.268	3310	3311	3316	rVB4	3077	2951	0.30%	0.031%
134	19.311	3316	3319	3320	rBV3	2898	2344	0.24%	0.025%
135	19.321	3320	3321	3324	rBV3	3124	2117	0.21%	0.023%
136	19.359	3324	3328	3330	rBV4	2190	3057	0.31%	0.033%
137	19.385	3330	3333	3335	rVB3	1966	1540	0.16%	0.016%
138	19.434	3339	3342	3343	rVB3	2082	1895	0.19%	0.020%
139	19.455	3343	3346	3348	rBV4	2572	3287	0.33%	0.035%
140	19.535	3359	3361	3364	rBV2	2327	2020	0.20%	0.021%
141	19.583	3365	3370	3372	rBV5	3551	3733	0.38%	0.040%
142	19.599	3372	3373	3375	rBV2	2298	1643	0.17%	0.017%
143	19.658	3383	3384	3388	rVB4	4240	4523	0.46%	0.048%
144	19.711	3388	3394	3395	rBV4	5499	9320	0.94%	0.099%
145	19.759	3402	3403	3407	rBV4	2034	2310	0.23%	0.025%
146	19.797	3409	3410	3414	rVB3	2985	2404	0.24%	0.026%
147	19.829	3414	3416	3418	rBV3	3681	3388	0.34%	0.036%
148	19.866	3422	3423	3427	rVB4	2526	2359	0.24%	0.025%
149	19.893	3427	3428	3431	rBV3	2281	2330	0.24%	0.025%
150	19.925	3431	3434	3439	rVB7	2483	2817	0.28%	0.030%
151	19.957	3439	3440	3445	rBV5	3341	4250	0.43%	0.045%

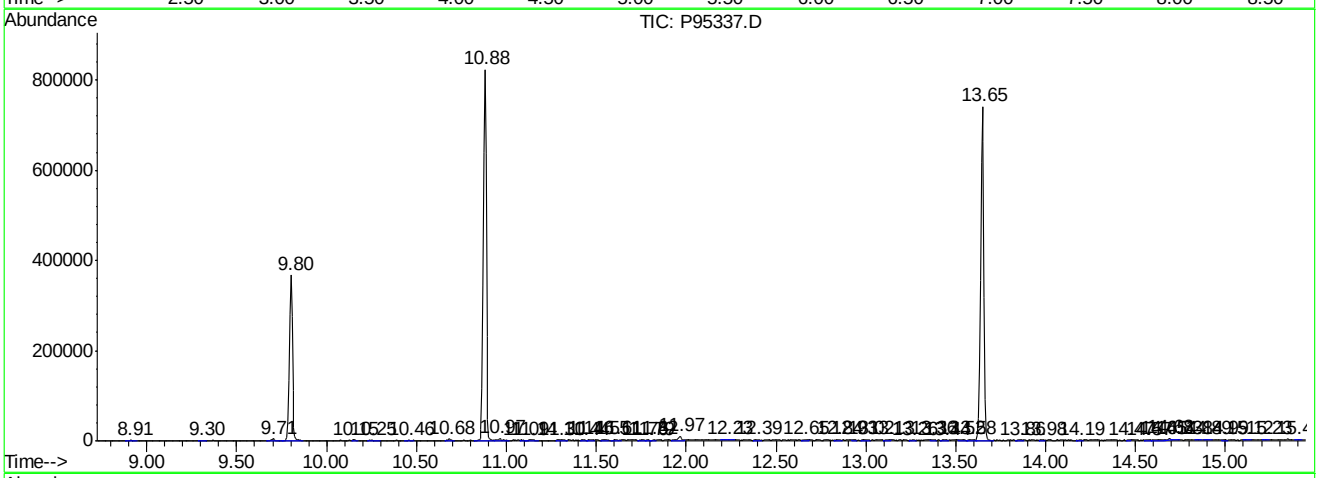
152	20.032	3453	3454	3458	rVB3	3324	2076	0.21%	0.022%
153	20.091	3463	3465	3467	rBV3	3797	2487	0.25%	0.026%
154	20.144	3473	3475	3479	rVB4	4456	4515	0.46%	0.048%
155	20.181	3481	3482	3484	rBV2	4226	3111	0.31%	0.033%
156	20.197	3484	3485	3487	rBV2	2214	1555	0.16%	0.017%
157	20.262	3493	3497	3498	rVB4	3236	3175	0.32%	0.034%
158	20.278	3498	3500	3501	rBV2	3303	2386	0.24%	0.025%
159	20.331	3504	3510	3512	rVV7	2837	4817	0.49%	0.051%
160	20.347	3512	3513	3518	rVB4	4058	4343	0.44%	0.046%
161	20.395	3519	3522	3524	rBV4	2457	1977	0.20%	0.021%
162	20.449	3530	3532	3537	rVB6	2853	3268	0.33%	0.035%
163	20.491	3537	3540	3541	rBV2	3229	2828	0.29%	0.030%
164	20.529	3543	3547	3551	rVB7	4280	5865	0.59%	0.062%
165	20.587	3552	3558	3559	rVB6	3890	3982	0.40%	0.042%
166	20.620	3563	3564	3568	rVV4	2813	2614	0.26%	0.028%
167	20.652	3568	3570	3573	rVV4	3587	3137	0.32%	0.033%
168	20.700	3576	3579	3581	rVB4	3226	2858	0.29%	0.030%
169	20.753	3585	3589	3594	rBV8	2274	4908	0.50%	0.052%
170	20.849	3605	3607	3609	rBV3	3498	2871	0.29%	0.031%
171	20.887	3609	3614	3615	rBV5	3306	4026	0.41%	0.043%
172	20.935	3621	3623	3624	rBV2	5436	2101	0.21%	0.022%
173	20.951	3625	3626	3631	rVB5	3268	3704	0.37%	0.039%
174	20.993	3631	3634	3636	rBV4	3151	1864	0.19%	0.020%
175	21.031	3640	3641	3642	rBV	4203	1540	0.16%	0.016%
176	21.063	3646	3647	3652	rVB5	3357	3565	0.36%	0.038%
177	21.095	3652	3653	3655	rBV2	2855	1973	0.20%	0.021%
178	21.159	3660	3665	3667	rVV5	4491	4008	0.40%	0.043%
179	21.202	3671	3673	3674	rVB2	4350	2120	0.21%	0.023%
180	21.319	3692	3695	3697	rBV4	4782	4857	0.49%	0.052%
181	21.373	3701	3705	3707	rVV5	4054	4835	0.49%	0.051%
182	21.421	3707	3714	3718	rVV9	4019	9461	0.96%	0.101%
183	21.474	3722	3724	3726	rVV3	3950	2987	0.30%	0.032%
184	21.496	3726	3728	3730	rVV3	2499	1844	0.19%	0.020%
185	21.528	3730	3734	3736	rVV5	3331	4878	0.49%	0.052%
186	21.544	3736	3737	3741	rVV4	3703	4563	0.46%	0.049%
187	21.592	3745	3746	3749	rBV3	2644	2357	0.24%	0.025%
188	21.629	3752	3753	3757	rVV3	3986	2750	0.28%	0.029%
189	21.672	3757	3761	3762	rVB4	4303	3376	0.34%	0.036%
190	21.688	3762	3764	3768	rBV5	3722	4285	0.43%	0.046%
191	21.789	3780	3783	3785	rBV4	5419	3923	0.40%	0.042%
192	21.827	3789	3790	3793	rBV3	3921	2219	0.22%	0.024%
193	21.859	3793	3796	3799	rVV5	1770	2031	0.21%	0.022%
194	21.891	3799	3802	3803	rVV3	2490	1965	0.20%	0.021%
195	21.902	3803	3804	3808	rVB4	4061	3807	0.38%	0.041%
196	21.955	3812	3814	3815	rBV2	2404	1821	0.18%	0.019%
197	22.003	3819	3823	3828	rBV8	2942	4951	0.50%	0.053%
198	22.094	3838	3840	3843	rBV4	3903	4349	0.44%	0.046%
199	22.115	3843	3844	3846	rVB2	2924	1705	0.17%	0.018%
200	22.137	3846	3848	3849	rBV2	2701	1630	0.16%	0.017%

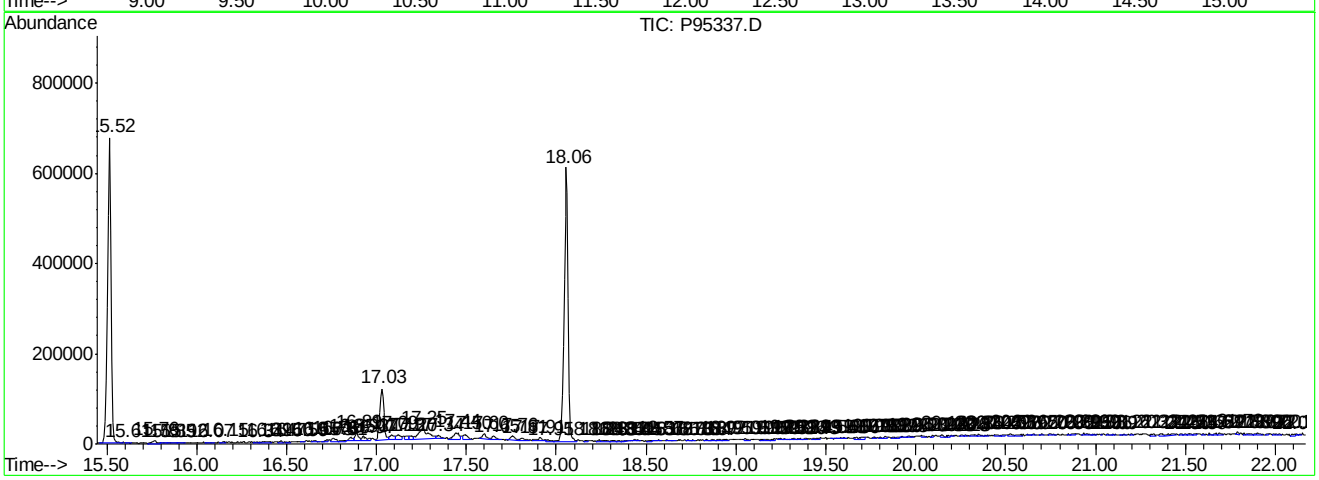
Sum of corrected areas: 9397124

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\EP4119\P95337.D
Operator : kristis
Acquired : 9 May 2015 8:01 pm using AcqMethod MP4082
Instrument : MSP
Sample Name: jb94209-17
Misc Info : op83797,ep4119,930,,,1,1
Vial Number: 11
Quant File :MP4082.RES (RTE Integrator)

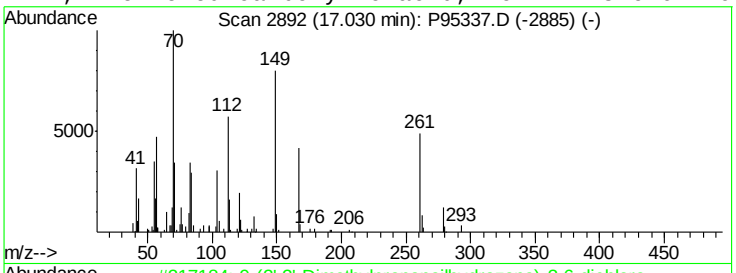


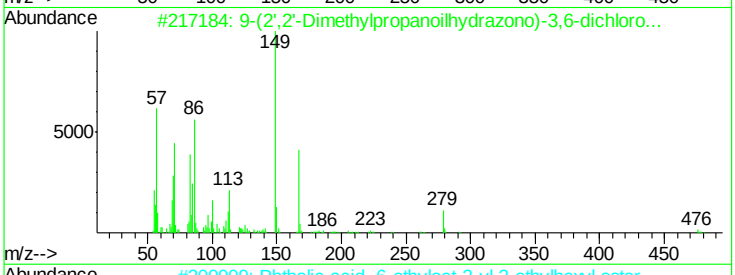


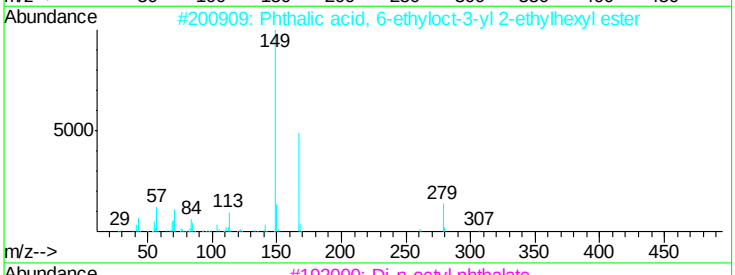


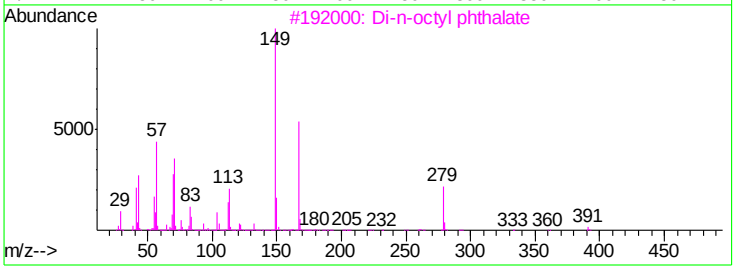
Library Search Compound Report

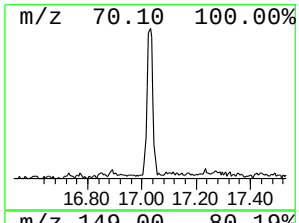
```
Data File : C:\MSDCHEM\1\DATA\EP4119\P95337.D            Vial: 11
Acq On    :  9 May 2015   8:01 pm                    Operator: kristis
Sample    : jb94209-17                               Inst    : MSP
Misc      : op83797,ep4119,930,,,1,1                 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Library      : C:\DATABASE\NIST08.L
 ******************************************************************
 Peak Number  1  unknown                          Concentration Rank  1

   R.T.   EstConc           Area       Relative to ISTD         R.T.
 ------------------------------------------------------------------
  17.03    7.36 ppm        170083    Perylene-d12               18.06

  Hit# of  5    Tentative ID              MW  MolForm       CAS#       Qual
 ------------------------------------------------------------------------
  1 9-(2',2'-Dimethylpropanoilhydraz... 576 C30H42Cl2N4O3  1000111-04-6 38
  2 Phthalic acid, 6-ethyloct-3-yl 2... 418 C26H42O4       1000315-53-8 35
  3 Di-n-octyl phthalate                390 C24H38O4       000117-84-0 35
  4 1,2-Benzenedicarboxylic acid, mo... 278 C16H22O4       004376-20-9 27
```

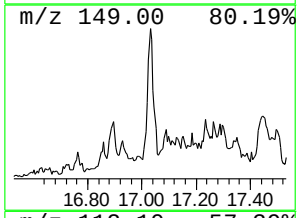


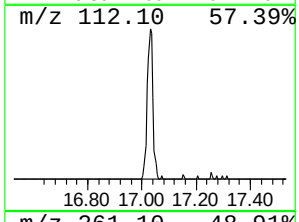


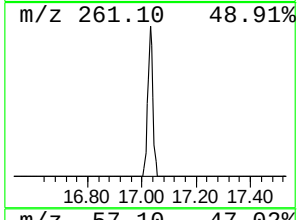


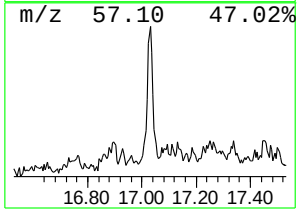












Tentatively Identified Compound (LSC) summary

Operator ID: kristis Date Acquired: 9 May 2015 8:01 pm
Data File: C:\MSDCHEM\1\DATA\EP4119\P95337.D
Name: jb94209-17
Misc: op83797,ep4119,930,,,1,1
Method: C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title: Semi Volatile Extractables by GC/MS
Library Searched: C:\DATABASE\NIST08.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
unknown	17.03	7.4	ppm	170083	11	18.06	924283	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48477.D
Acq On : 11 May 2015 9:05 pm
Operator : sarad
Sample : jb94209-18
Misc : op83787,e2p2069,32.1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 22:39:25 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

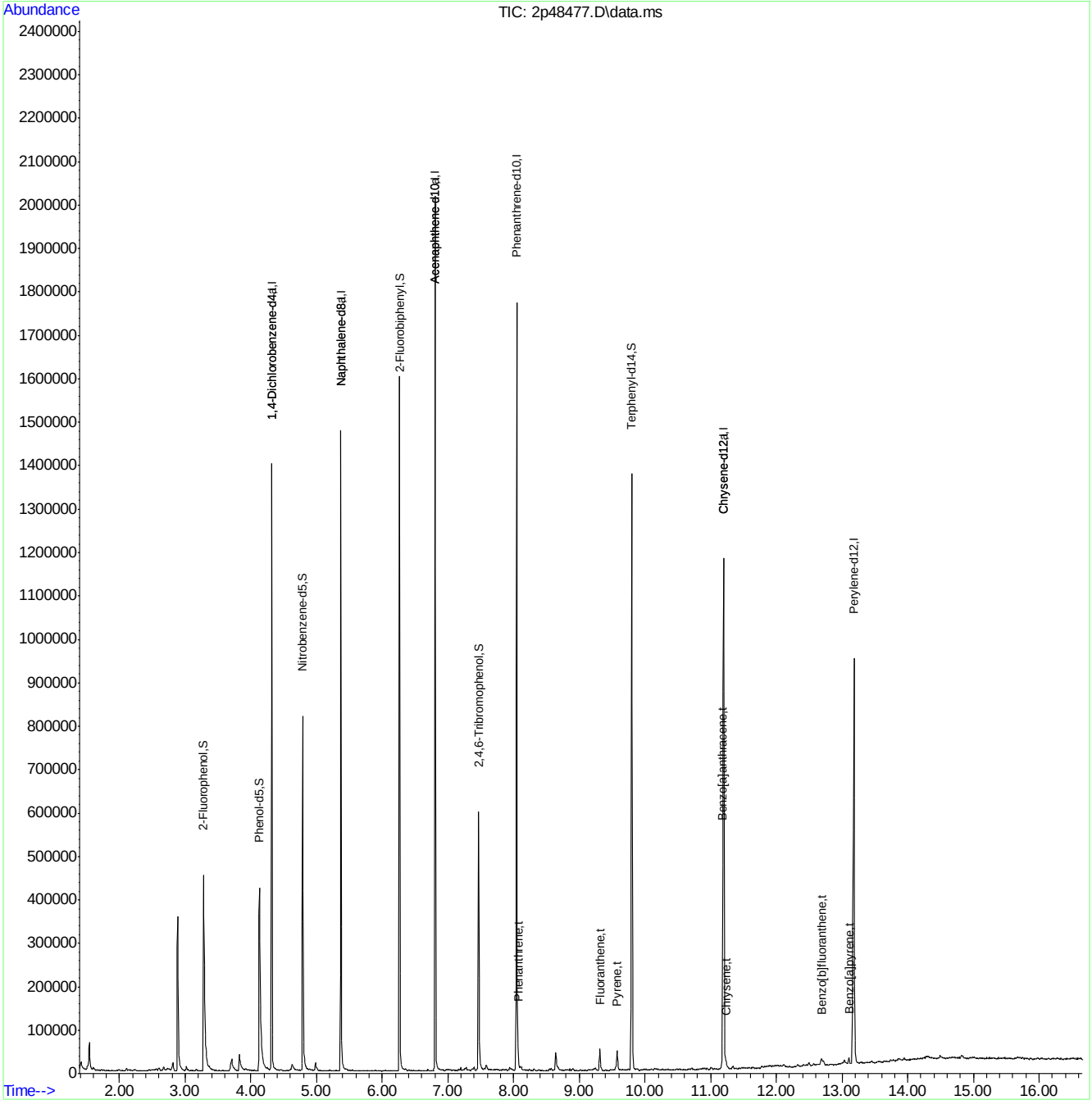
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.318	152	146772	40.00	ppm	-0.09
24) Naphthalene-d8	5.372	136	483871	40.00	ppm	-0.09
47) Acenaphthene-d10	6.805	164	301163	40.00	ppm	-0.09
69) Phenanthrene-d10	8.046	188	491388	40.00	ppm	-0.10
83) Chrysene-d12	11.196	240	457678	40.00	ppm	-0.14
92) Perylene-d12	13.181	264	389898	40.00	ppm	-0.14
102) 1,4-Dichlorobenzene-d4a	4.318	152	146772	40.00	ppm	-0.09
104) Naphthalene-d8a	5.372	136	483871	40.00	ppm	#-0.09
106) Acenaphthene-d10a	6.805	164	301163	40.00	ppm	-0.09
109) Chrysene-d12a	11.196	240	457678	40.00	ppm	-0.14
System Monitoring Compounds						
5) 2-Fluorophenol	3.280	112	138672	32.13	ppm	-0.12
Spiked Amount 50.000	Range 11 - 58		Recovery = 64.26%#			
8) Phenol-d5	4.131	99	166553	30.67	ppm	-0.10
Spiked Amount 50.000	Range 10 - 59		Recovery = 61.34%#			
25) Nitrobenzene-d5	4.789	82	172873	39.42	ppm	-0.09
Spiked Amount 50.000	Range 19 - 61		Recovery = 78.84%#			
51) 2-Fluorobiphenyl	6.265	172	399488	38.75	ppm	-0.08
Spiked Amount 50.000	Range 21 - 58		Recovery = 77.50%#			
73) 2,4,6-Tribromophenol	7.468	330	40406	35.39	ppm	-0.09
Spiked Amount 50.000	Range 12 - 68		Recovery = 70.78%#			
85) Terphenyl-d14	9.800	244	396094	46.52	ppm	-0.12
Spiked Amount 50.000	Range 16 - 65		Recovery = 93.04%#			
Target Compounds						Qvalue
77) Phenanthrene	8.067	178	14933	1.10	ppm	96
81) Fluoranthene	9.313	202	19672	1.22	ppm	91
84) Pyrene	9.576	202	16610	1.19	ppm	96
88) Benzo[a]anthracene	11.186	228	9164	0.69	ppm	92
90) Chrysene	11.234	228	7663	0.65	ppm	91
94) Benzo[b]fluoranthene	12.688	252	8587	0.72	ppm	91
96) Benzo[a]pyrene	13.106	252	5452	0.53	ppm	95

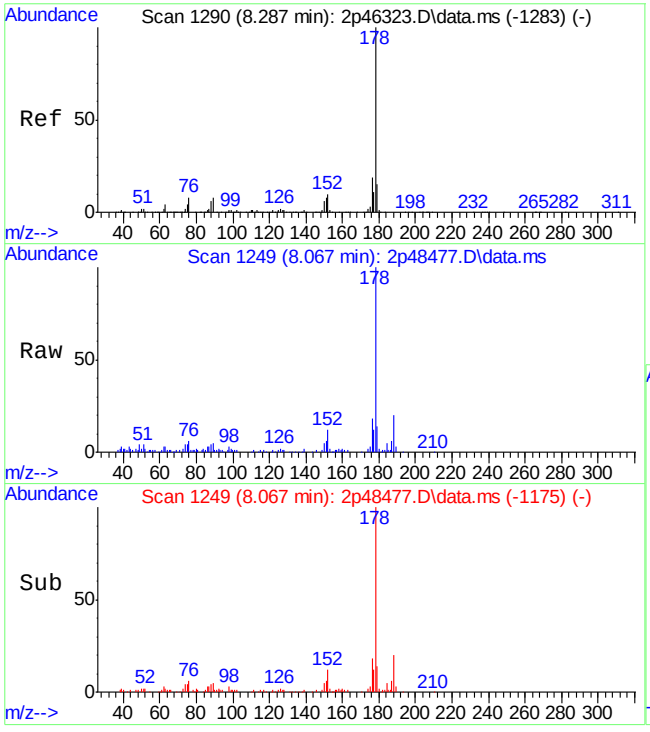
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48477.D
Acq On : 11 May 2015 9:05 pm
Operator : sarad
Sample : jb94209-18
Misc : op83787,e2p2069,32.1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 22:39:25 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

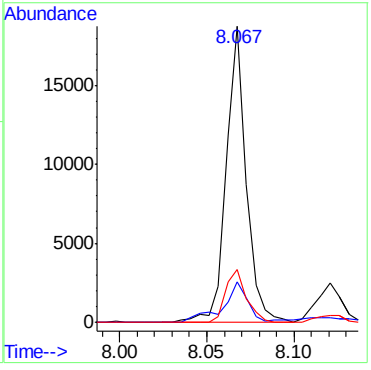


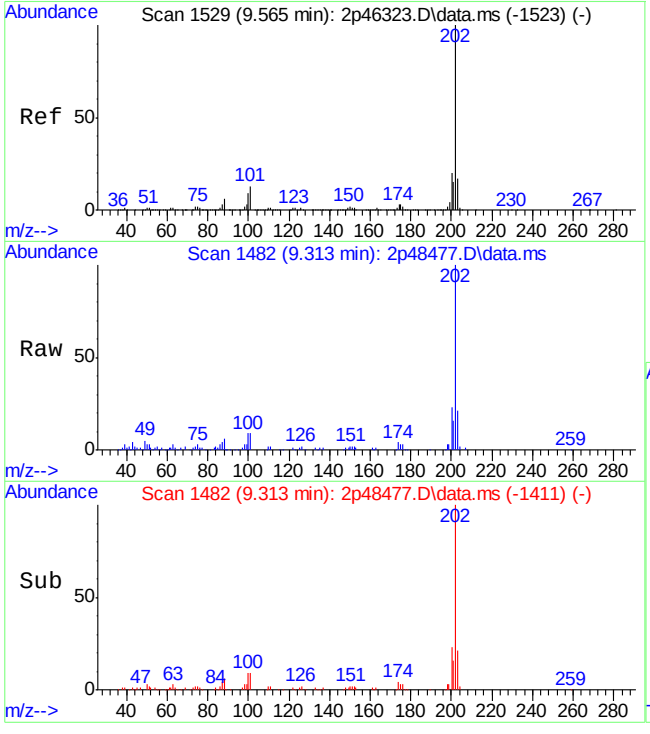


#77
Phenanthrene
Concen: 1.10 ppm
RT: 8.067 min Scan# 1249
Delta R.T. -0.102 min
Lab File: 2p48477.D
Acq: 11 May 2015 9:05 pm

Tgt Ion:178 Resp: 14933

Ion	Ratio	Lower	Upper
178	100		
179	13.0	0.0	45.4
176	17.7	0.0	48.5

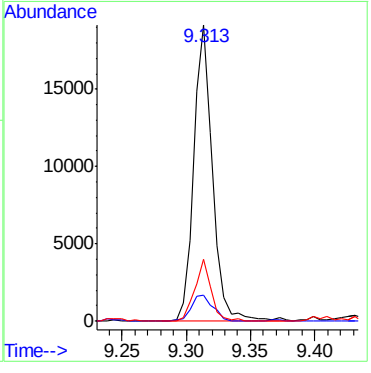




#81
Fluoranthene
Concen: 1.22 ppm
RT: 9.313 min Scan# 1482
Delta R.T. -0.118 min
Lab File: 2p48477.D
Acq: 11 May 2015 9:05 pm

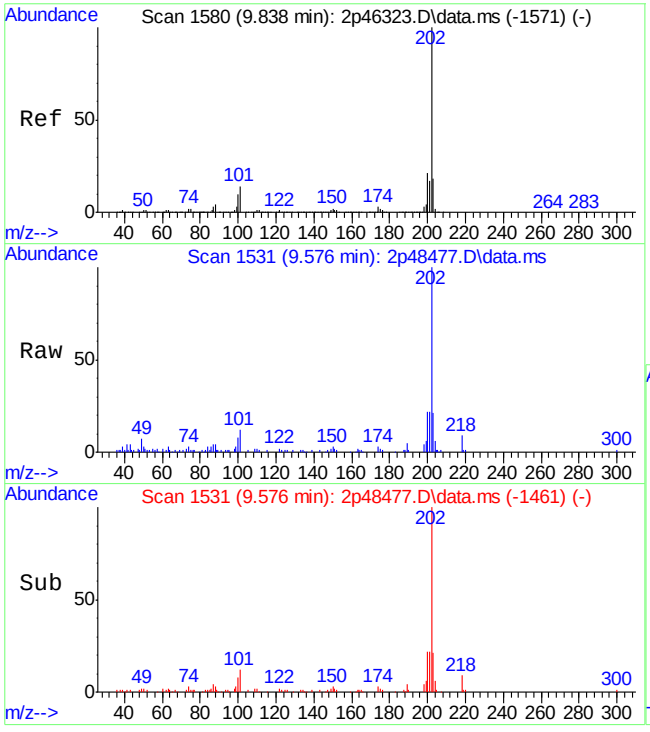
Tgt Ion:202 Resp: 19672

Ion	Ratio	Lower	Upper
202	100		
101	8.8	0.0	43.1
203	20.7	0.0	47.4



9.1.38

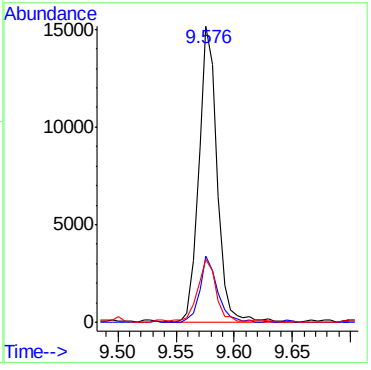
9

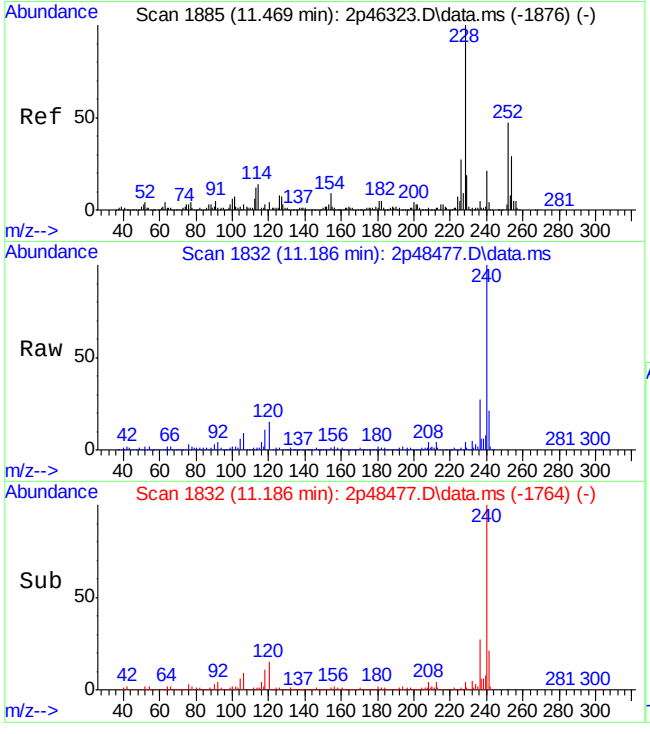


#84
Pyrene
Concen: 1.19 ppm
RT: 9.576 min Scan# 1531
Delta R.T. -0.123 min
Lab File: 2p48477.D
Acq: 11 May 2015 9:05 pm

Tgt Ion:202 Resp: 16610

Ion	Ratio	Lower	Upper
202	100		
200	22.0	0.0	51.0
203	20.4	0.0	47.4

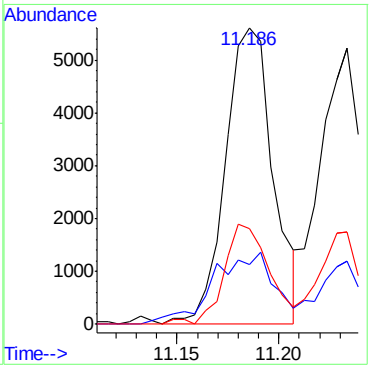




#88
Benzo[a]anthracene
Concen: 0.69 ppm
RT: 11.186 min Scan# 1832
Delta R.T. -0.134 min
Lab File: 2p48477.D
Acq: 11 May 2015 9:05 pm

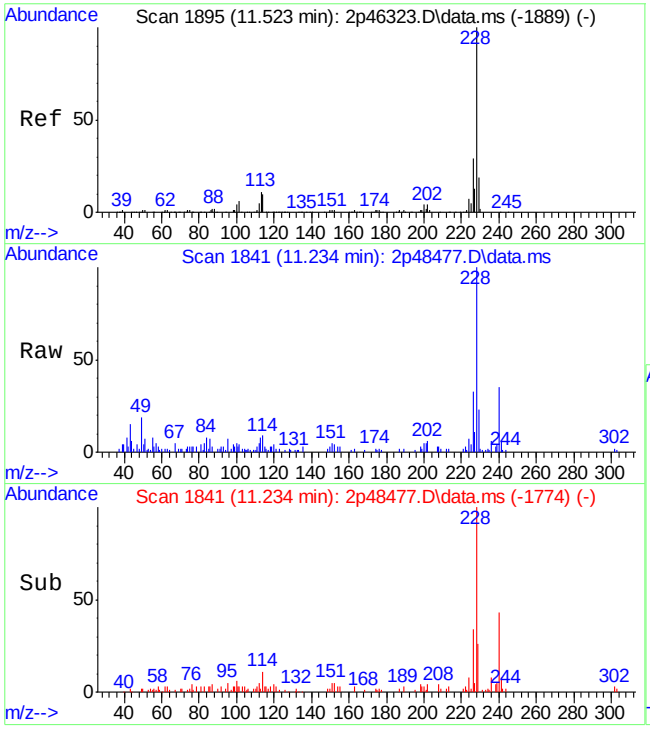
Tgt Ion:228 Resp: 9164

Ion	Ratio	Lower	Upper
228	100		
229	18.9	0.0	50.1
226	33.6	0.0	57.2



9.1.38

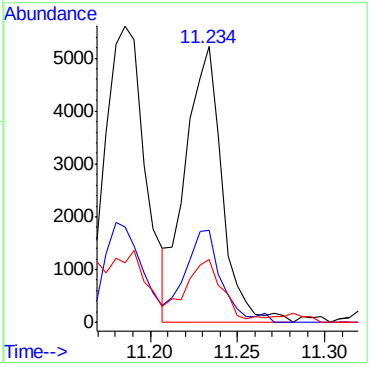
9

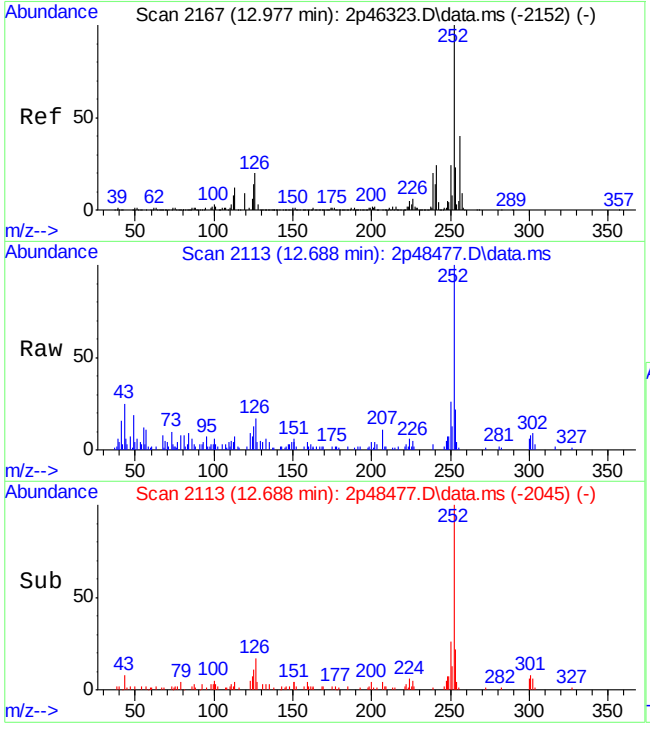


#90
Chrysene
Concen: 0.65 ppm
RT: 11.234 min Scan# 1841
Delta R.T. -0.139 min
Lab File: 2p48477.D
Acq: 11 May 2015 9:05 pm

Tgt Ion:228 Resp: 7663

Ion	Ratio	Lower	Upper
228	100		
226	35.1	0.0	58.8
229	21.5	0.0	49.1

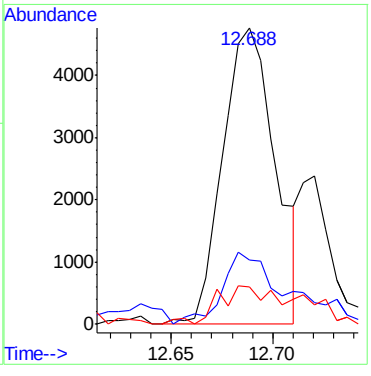


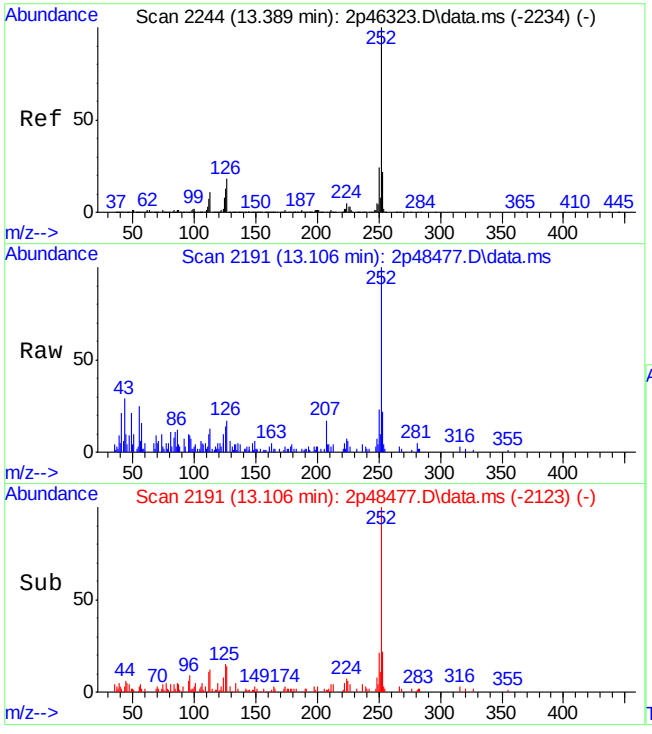


#94
Benzo[b]fluoranthene
Concen: 0.72 ppm
RT: 12.688 min Scan# 2113
Delta R.T. -0.134 min
Lab File: 2p48477.D
Acq: 11 May 2015 9:05 pm

Tgt Ion:252 Resp: 8587

Ion	Ratio	Lower	Upper
252	100		
253	17.3	0.0	52.1
125	10.6	0.0	42.9

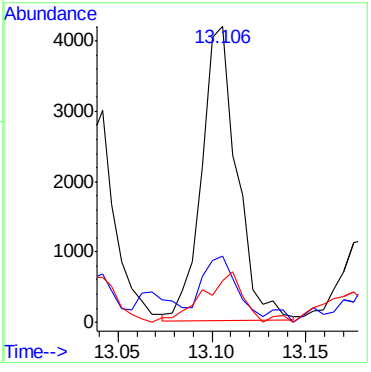




#96
Benzo[a]pyrene
Concen: 0.53 ppm
RT: 13.106 min Scan# 2191
Delta R.T. -0.134 min
Lab File: 2p48477.D
Acq: 11 May 2015 9:05 pm

Tgt Ion:252 Resp: 5452

Ion	Ratio	Lower	Upper
252	100		
253	18.9	0.0	51.8
125	13.5	0.0	45.1



9.1.38

9

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48477.D
Acq On : 11 May 2015 9:05 pm
Operator : sarad
Sample : jb94209-18
Misc : op83787,e2p2069,32.1
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: 2p48477.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.414	3	5	14	rVB2	16849	22748	1.58%	0.163%
2	1.542	19	29	37	rVV	62924	79193	5.51%	0.566%
3	1.601	37	40	45	rVB7	6472	8164	0.57%	0.058%
4	1.997	109	114	119	rVB8	2526	5149	0.36%	0.037%
5	2.109	130	135	138	rVV6	6367	8142	0.57%	0.058%
6	2.141	139	141	147	rVV6	3119	5851	0.41%	0.042%
7	2.248	157	161	164	rVB5	3306	5274	0.37%	0.038%
8	2.462	188	201	203	rBV5	2660	5921	0.41%	0.042%
9	2.601	222	227	233	rVV3	6363	9945	0.69%	0.071%
10	2.671	233	240	244	rVV2	7909	10084	0.70%	0.072%
11	2.735	244	252	254	rVV8	4820	10754	0.75%	0.077%
12	2.815	259	267	272	rVV	18137	25467	1.77%	0.182%
13	2.884	272	280	298	rVV	355368	375821	26.16%	2.685%
14	3.018	298	305	315	rVV	10223	18446	1.28%	0.132%
15	3.168	327	333	342	rVB	4187	7945	0.55%	0.057%
16	3.280	350	354	380	rBV	452674	599151	41.71%	4.281%
17	3.708	423	434	451	rVV	26664	63520	4.42%	0.454%
18	3.820	451	455	469	rVV	38368	67324	4.69%	0.481%
19	3.927	474	475	486	rVB10	3431	5420	0.38%	0.039%
20	4.131	509	513	533	rVV2	422409	636570	44.31%	4.549%
21	4.248	533	535	543	rVV8	8107	14502	1.01%	0.104%
22	4.318	543	548	569	rVV	1399004	972507	67.70%	6.949%
23	4.628	596	606	622	rVV2	15441	38927	2.71%	0.278%
24	4.789	629	636	658	rVV	817230	634422	44.16%	4.533%
25	4.981	666	672	685	rVB	19171	24996	1.74%	0.179%
26	5.372	737	745	766	rBV	1475058	1126008	78.38%	8.046%
27	5.543	773	777	787	rVB7	3004	6455	0.45%	0.046%
28	6.259	907	911	926	rVV	1600892	1239649	86.29%	8.858%
29	6.350	926	928	933	rVV4	5412	7002	0.49%	0.050%
30	6.805	1005	1013	1029	rBV	2014891	1317784	91.73%	9.416%
31	6.982	1041	1046	1051	rBV7	3906	6282	0.44%	0.045%
32	7.195	1083	1086	1089	rVV	7941	6303	0.44%	0.045%
33	7.276	1094	1101	1104	rVV4	7357	9412	0.66%	0.067%
34	7.372	1113	1119	1121	rBV4	5069	7484	0.52%	0.053%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48477.D
Acq On : 11 May 2015 9:05 pm
Operator : sarad
Sample : jb94209-18
Misc : op83787,e2p2069,32.1
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

35	7.399	1122	1124	1129	rVB2	8488	7677	0.53%	0.055%
36	7.468	1129	1137	1150	rBV	595075	533291	37.12%	3.811%
37	7.554	1150	1153	1155	rVV3	4420	4754	0.33%	0.034%
38	7.581	1155	1158	1169	rVB6	11959	18653	1.30%	0.133%
39	7.939	1219	1225	1229	rBV2	8118	11282	0.79%	0.081%
40	8.046	1237	1245	1253	rBV	1768972	1385211	96.43%	9.898%
41	8.099	1253	1255	1264	rVB2	9577	16580	1.15%	0.118%
42	8.303	1289	1293	1303	rVB7	4164	7548	0.53%	0.054%
43	8.538	1334	1337	1340	rBV3	4244	5101	0.36%	0.036%
44	8.570	1340	1343	1347	rVB2	5901	5135	0.36%	0.037%
45	8.640	1347	1356	1374	rBV5	40899	64407	4.48%	0.460%
46	8.896	1399	1404	1413	rVB5	4553	6959	0.48%	0.050%
47	9.142	1442	1450	1452	rBV8	3206	5456	0.38%	0.039%
48	9.239	1459	1468	1476	rVB8	5404	16215	1.13%	0.116%
49	9.314	1476	1482	1489	rBV	49722	55787	3.88%	0.399%
50	9.576	1522	1531	1537	rVV	44310	58590	4.08%	0.419%
51	9.800	1566	1573	1580	rVV	1374090	1353841	94.24%	9.674%
52	9.875	1583	1587	1591	rVB6	3268	5253	0.37%	0.038%
53	10.148	1633	1638	1642	rBV8	4302	6448	0.45%	0.046%
54	10.710	1740	1743	1747	rVV6	3816	5335	0.37%	0.038%
55	11.004	1795	1798	1804	rBV8	4804	7185	0.50%	0.051%
56	11.196	1818	1834	1855	rBV	1177427	1436546	100.00%	10.265%
57	11.341	1855	1861	1864	rBV7	7389	10999	0.77%	0.079%
58	11.640	1912	1917	1923	rVB8	3943	6457	0.45%	0.046%
59	11.785	1938	1944	1948	rBV9	5622	11190	0.78%	0.080%
60	11.870	1954	1960	1963	rBV8	2550	4916	0.34%	0.035%
61	11.993	1976	1983	1985	rVV8	3020	7487	0.52%	0.053%
62	12.025	1985	1989	1993	rVV7	3748	7586	0.53%	0.054%
63	12.057	1993	1995	1999	rVV5	4060	5737	0.40%	0.041%
64	12.111	1999	2005	2013	rVV5	6014	15286	1.06%	0.109%
65	12.196	2017	2021	2026	rVB8	2916	4696	0.33%	0.034%
66	12.325	2040	2045	2051	rBV10	4747	8296	0.58%	0.059%
67	12.410	2053	2061	2065	rVV10	4347	8426	0.59%	0.060%
68	12.453	2067	2069	2073	rVV5	3875	5201	0.36%	0.037%
69	12.501	2073	2078	2083	rVB9	7688	13508	0.94%	0.097%
70	12.571	2083	2091	2094	rBV9	5128	9879	0.69%	0.071%
71	12.640	2097	2104	2105	rVV7	3280	6170	0.43%	0.044%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48477.D
Acq On : 11 May 2015 9:05 pm
Operator : sarad
Sample : jb94209-18
Misc : op83787,e2p2069,32.1
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

72	12.688	2106	2113	2116	rVV3	14359	27929	1.94%	0.200%
73	12.715	2116	2118	2123	rVB6	9281	11200	0.78%	0.080%
74	12.945	2155	2161	2162	rBV6	4512	5816	0.40%	0.042%
75	13.036	2170	2178	2186	rVB4	10173	19389	1.35%	0.139%
76	13.106	2186	2191	2195	rVB3	13949	16842	1.17%	0.120%
77	13.181	2197	2205	2215	rBV	933566	1195057	83.19%	8.539%
78	13.304	2220	2228	2231	rVV10	2682	5122	0.36%	0.037%
79	13.453	2250	2256	2261	rBV10	4879	8000	0.56%	0.057%
80	13.534	2265	2271	2274	rBV8	4037	7861	0.55%	0.056%
81	13.635	2285	2290	2295	rBV9	3768	7020	0.49%	0.050%
82	13.742	2304	2310	2315	rBV10	4515	9013	0.63%	0.064%
83	13.785	2315	2318	2323	rVV7	3907	5314	0.37%	0.038%
84	13.865	2327	2333	2342	rVB7	5561	18036	1.26%	0.129%
85	13.940	2342	2347	2355	rBV7	7234	15040	1.05%	0.107%
86	14.090	2369	2375	2378	rVV8	3243	7433	0.52%	0.053%
87	14.154	2383	2387	2388	rVV4	4360	5166	0.36%	0.037%
88	14.202	2393	2396	2399	rVV5	4526	6615	0.46%	0.047%
89	14.256	2399	2406	2408	rVV8	5480	11733	0.82%	0.084%
90	14.293	2408	2413	2414	rVV5	7241	12098	0.84%	0.086%
91	14.336	2420	2421	2424	rVV3	4993	4752	0.33%	0.034%
92	14.368	2424	2427	2434	rVV9	5114	8226	0.57%	0.059%
93	14.491	2448	2450	2457	rVB8	6568	11187	0.78%	0.080%
94	14.641	2473	2478	2481	rBV7	4056	5619	0.39%	0.040%
95	14.823	2507	2512	2518	rVV10	6902	13194	0.92%	0.094%
96	15.010	2545	2547	2553	rVB7	3926	4751	0.33%	0.034%
97	15.743	2683	2684	2689	rVB5	4825	5962	0.42%	0.043%
98	15.967	2724	2726	2734	rVB9	3173	6228	0.43%	0.045%
99	16.277	2780	2784	2791	rVV10	3779	8605	0.60%	0.061%
100	16.320	2791	2792	2797	rVB5	4468	5977	0.42%	0.043%

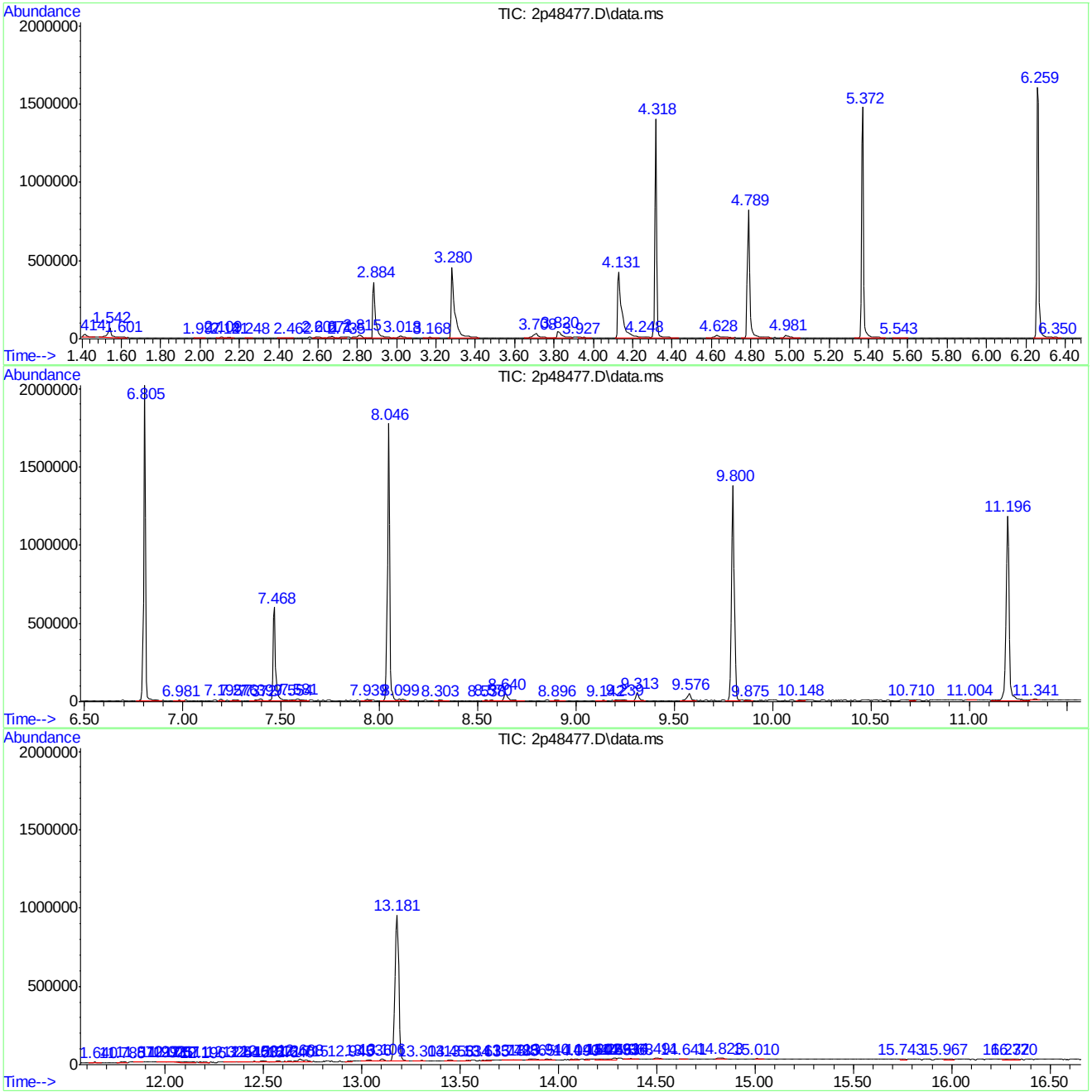
Sum of corrected areas: 13994895

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48477.D
Acq On : 11 May 2015 9:05 pm
Operator : sarad
Sample : jb94209-18
Misc : op83787,e2p2069,32.1
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48477.D
Acq On : 11 May 2015 9:05 pm
Operator : sarad
Sample : jb94209-18
Misc : op83787,e2p2069,32.1
ALS Vial : 11 Sample Multiplier: 1

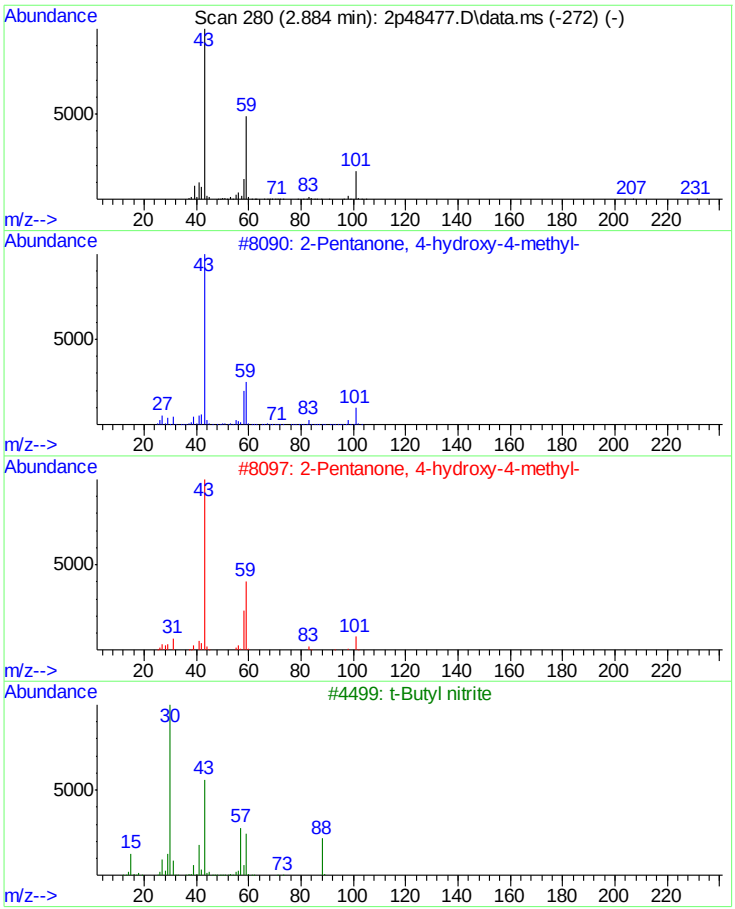
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

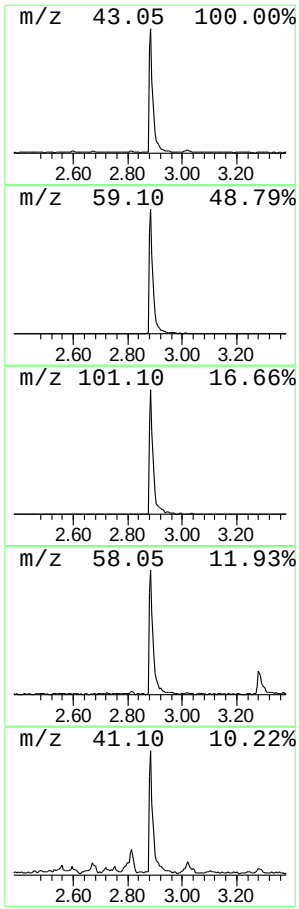
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 1 system artifact/aldol-conde... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.884	15.46 ppm	375821	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
3	t-Butyl nitrite	103	C4H9NO2	000540-80-7	39
4	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	39
5	1-Butene, 4-ethoxy-	100	C6H12O	044611-46-3	23





Tentatively Identified Compound (LSC) summary

```
  Data Path : C:\msdchem\1\DATA\2P2069\
  Data File : 2p48477.D
  Acq On    : 11 May 2015   9:05 pm
  Operator  : sarad
  Sample    : jb94209-18
  Misc      : op83787,e2p2069,32.1
  ALS Vial  : 11   Sample Multiplier: 1

  Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
  Quant Title  : Semi Volatile Extractables by GC/MS

  TIC Library   : C:\Database\NIST08.L
  TIC Integration Parameters: lscint.p
```

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
system artifact...	2.884	15.5	ppm	375821	1	4.318	972507	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48471.D
Acq On : 11 May 2015 6:22 pm
Operator : sarad
Sample : op83787-mb1
Misc : op83787,e2p2069,30.0
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 11 22:07:53 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration

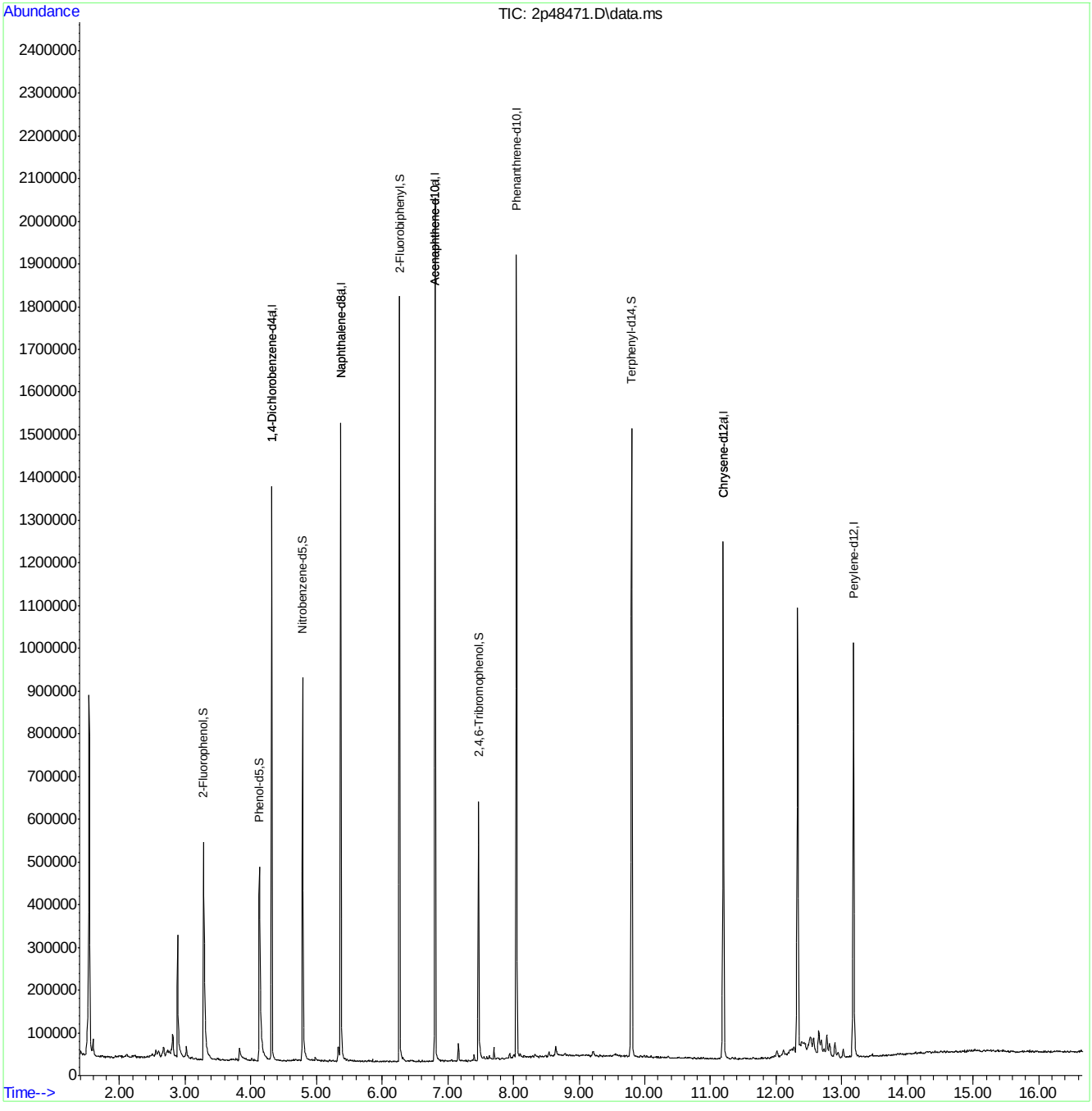
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.318	152	157644	40.00 ppm	-0.09
24) Naphthalene-d8	5.372	136	531554	40.00 ppm	-0.09
47) Acenaphthene-d10	6.805	164	321699	40.00 ppm	-0.09
69) Phenanthrene-d10	8.046	188	529683	40.00 ppm	-0.10
83) Chrysene-d12	11.196	240	476013	40.00 ppm	-0.14
92) Perylene-d12	13.181	264	407726	40.00 ppm	-0.14
102) 1,4-Dichlorobenzene-d4a	4.318	152	157644	40.00 ppm	-0.09
104) Naphthalene-d8a	5.372	136	531554	40.00 ppm	-0.09
106) Acenaphthene-d10a	6.805	164	321699	40.00 ppm	-0.09
109) Chrysene-d12a	11.196	240	476013	40.00 ppm	-0.14
System Monitoring Compounds					
5) 2-Fluorophenol	3.280	112	164903	35.58 ppm	-0.12
Spiked Amount 50.000	Range 11 - 58		Recovery = 71.16%#		
8) Phenol-d5	4.131	99	194638	33.37 ppm	-0.10
Spiked Amount 50.000	Range 10 - 59		Recovery = 66.74%#		
25) Nitrobenzene-d5	4.789	82	201549	41.84 ppm	-0.09
Spiked Amount 50.000	Range 19 - 61		Recovery = 83.68%#		
51) 2-Fluorobiphenyl	6.265	172	466597	42.37 ppm	-0.08
Spiked Amount 50.000	Range 21 - 58		Recovery = 84.74%#		
73) 2,4,6-Tribromophenol	7.468	330	43769	35.56 ppm	-0.09
Spiked Amount 50.000	Range 12 - 68		Recovery = 71.12%#		
85) Terphenyl-d14	9.800	244	445716	50.33 ppm	-0.12
Spiked Amount 50.000	Range 16 - 65		Recovery = 100.66%#		
Target Compounds					Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48471.D
Acq On : 11 May 2015 6:22 pm
Operator : sarad
Sample : op83787-mb1
Misc : op83787,e2p2069,30.0
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 11 22:07:53 2015
Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 07 08:39:55 2015
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48471.D
Acq On : 11 May 2015 6:22 pm
Operator : sarad
Sample : op83787-mb1
Misc : op83787,e2p2069,30.0
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: 2p48471.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.408	3	4	10	rVB4	9971	11000	0.73%	0.063%
2	1.537	15	28	35	rVV	844391	927140	61.57%	5.279%
3	1.601	37	40	51	rVB2	40484	45274	3.01%	0.258%
4	1.938	98	103	105	rBV5	5028	7050	0.47%	0.040%
5	2.104	130	134	138	rBV5	5793	7493	0.50%	0.043%
6	2.280	164	167	171	rBV4	3947	5437	0.36%	0.031%
7	2.505	203	209	212	rVV7	5799	7288	0.48%	0.041%
8	2.553	212	218	222	rVV5	15569	21017	1.40%	0.120%
9	2.596	222	226	232	rVB3	14565	23688	1.57%	0.135%
10	2.671	232	240	245	rBV5	23280	41566	2.76%	0.237%
11	2.729	245	251	253	rVV6	16882	30323	2.01%	0.173%
12	2.751	254	255	259	rVV4	16510	19303	1.28%	0.110%
13	2.810	259	266	274	rVV	55224	93018	6.18%	0.530%
14	2.884	277	280	297	rVV	290542	325713	21.63%	1.855%
15	3.018	298	305	314	rVV	29926	51557	3.42%	0.294%
16	3.104	317	321	327	rVV9	5551	10884	0.72%	0.062%
17	3.152	329	330	337	rVB6	4223	5931	0.39%	0.034%
18	3.280	349	354	379	rBV	510653	679864	45.15%	3.871%
19	3.489	389	393	401	rVB7	5102	11714	0.78%	0.067%
20	3.708	427	434	437	rBV7	4040	7286	0.48%	0.041%
21	3.772	444	446	451	rVB5	6578	6653	0.44%	0.038%
22	3.826	452	456	474	rBV2	28960	60034	3.99%	0.342%
23	4.013	488	491	496	rVB6	6451	6053	0.40%	0.034%
24	4.050	496	498	505	rBV5	3729	5110	0.34%	0.029%
25	4.131	509	513	539	rBV	454447	702349	46.64%	3.999%
26	4.318	543	548	560	rVB	1343521	1003699	66.65%	5.715%
27	4.655	606	611	613	rBV6	4518	5220	0.35%	0.030%
28	4.789	630	636	656	rBV	896461	708398	47.04%	4.034%
29	4.981	670	672	680	rVB5	8495	12339	0.82%	0.070%
30	5.035	680	682	688	rVB6	4724	6668	0.44%	0.038%
31	5.115	696	697	702	rVB5	4567	4954	0.33%	0.028%
32	5.195	707	712	718	rBV10	4698	8517	0.57%	0.048%
33	5.254	718	723	727	rVB6	3959	7753	0.51%	0.044%
34	5.329	731	737	741	rBV	34513	47752	3.17%	0.272%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48471.D
Acq On : 11 May 2015 6:22 pm
Operator : sarad
Sample : op83787-mb1
Misc : op83787,e2p2069,30.0
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

35	5.372	741	745	755	rVB	1490205	1196295	79.44%	6.812%
36	5.810	826	827	833	rBV5	2952	5528	0.37%	0.031%
37	5.858	833	836	841	rVB5	6113	5652	0.38%	0.032%
38	6.072	869	876	881	rVB9	3333	5322	0.35%	0.030%
39	6.115	881	884	890	rBV7	3653	5751	0.38%	0.033%
40	6.259	902	911	920	rBV	1792821	1410041	93.63%	8.029%
41	6.318	920	922	931	rVB9	10230	15951	1.06%	0.091%
42	6.805	1007	1013	1029	rVV	2021886	1397538	92.80%	7.957%
43	6.917	1029	1034	1038	rVB8	3111	5918	0.39%	0.034%
44	7.163	1073	1080	1085	rBV	42620	38856	2.58%	0.221%
45	7.377	1113	1120	1121	rBV6	4633	7162	0.48%	0.041%
46	7.399	1121	1124	1130	rVV2	15825	13527	0.90%	0.077%
47	7.468	1130	1137	1148	rVV	608023	550445	36.55%	3.134%
48	7.548	1151	1152	1156	rVV4	8538	9577	0.64%	0.055%
49	7.591	1156	1160	1163	rVV6	9092	11956	0.79%	0.068%
50	7.629	1163	1167	1170	rVV6	10372	12563	0.83%	0.072%
51	7.655	1170	1172	1178	rVV7	4589	6962	0.46%	0.040%
52	7.704	1178	1181	1186	rVV3	28210	22629	1.50%	0.129%
53	7.773	1186	1194	1198	rVB10	4098	10127	0.67%	0.058%
54	7.939	1221	1225	1231	rBV4	12261	14879	0.99%	0.085%
55	8.008	1232	1238	1241	rVV5	9981	12422	0.82%	0.071%
56	8.046	1241	1245	1252	rVV	1880536	1428116	94.83%	8.131%
57	8.099	1252	1255	1261	rVV5	10316	17146	1.14%	0.098%
58	8.158	1263	1266	1273	rVB9	6061	8910	0.59%	0.051%
59	8.329	1294	1298	1309	rVB9	7855	18039	1.20%	0.103%
60	8.404	1309	1312	1315	rBV4	4997	5437	0.36%	0.031%
61	8.543	1331	1338	1342	rBV8	11159	14737	0.98%	0.084%
62	8.645	1351	1357	1369	rBV4	24098	44637	2.96%	0.254%
63	8.789	1380	1384	1388	rBV7	4600	5212	0.35%	0.030%
64	9.212	1459	1463	1470	rBV6	12708	23100	1.53%	0.132%
65	9.319	1480	1483	1491	rBV8	7368	14529	0.96%	0.083%
66	9.800	1561	1573	1583	rBV	1472741	1505935	100.00%	8.575%
67	9.993	1604	1609	1613	rVB6	4063	4871	0.32%	0.028%
68	10.351	1673	1676	1683	rBV9	3527	5778	0.38%	0.033%
69	10.752	1747	1751	1757	rVB8	4953	8338	0.55%	0.047%
70	11.196	1824	1834	1850	rVB	1211652	1410743	93.68%	8.033%
71	11.330	1856	1859	1863	rBV5	3907	5238	0.35%	0.030%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48471.D
Acq On : 11 May 2015 6:22 pm
Operator : sarad
Sample : op83787-mb1
Misc : op83787,e2p2069,30.0
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

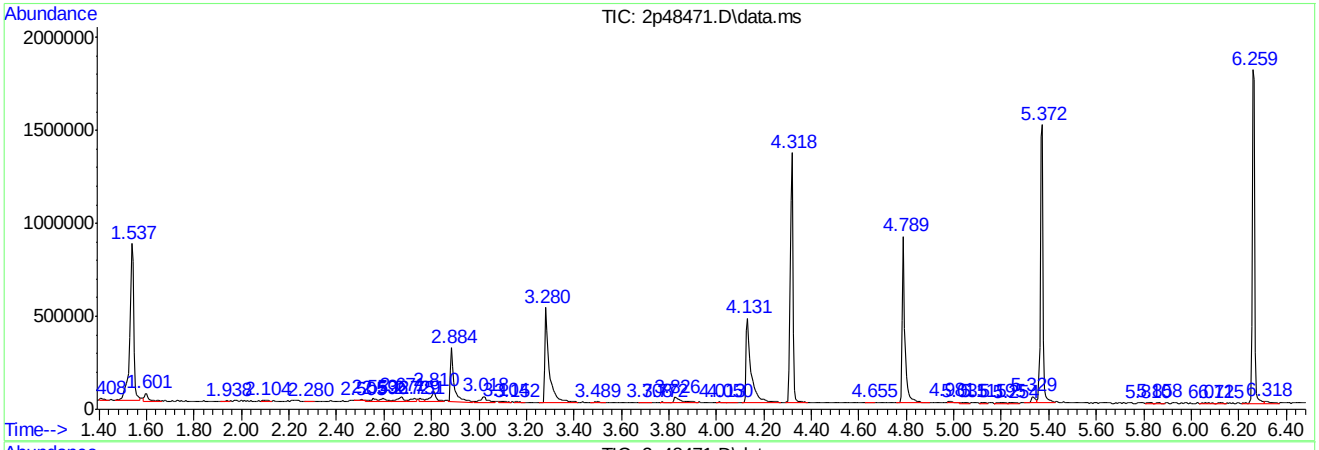
Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Title : Semi Volatile Extractables by GC/MS

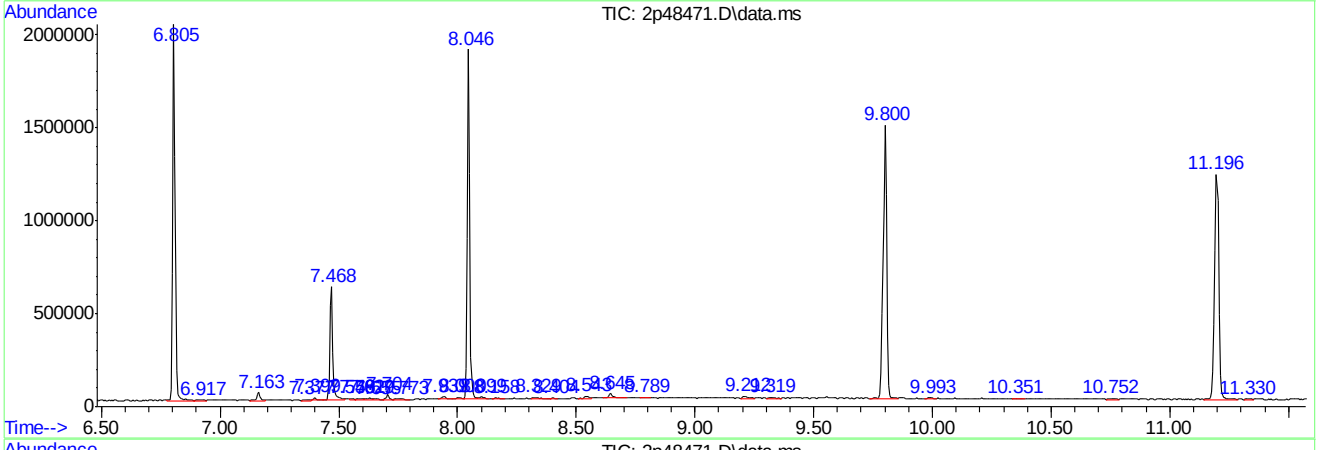
72	11.646	1914	1918	1923	rVB8	4147	6443	0.43%	0.037%
73	11.838	1947	1954	1955	rBV7	4033	6217	0.41%	0.035%
74	11.940	1965	1973	1975	rBV9	6317	11150	0.74%	0.063%
75	11.972	1975	1979	1982	rBV5	3919	5465	0.36%	0.031%
76	12.015	1982	1987	1992	rVB7	14331	22790	1.51%	0.130%
77	12.111	1995	2005	2010	rBV8	18125	43289	2.87%	0.246%
78	12.180	2015	2018	2020	rBV4	6545	7446	0.49%	0.042%
79	12.234	2020	2028	2032	rBV10	11310	30550	2.03%	0.174%
80	12.271	2032	2035	2039	rVB5	12783	16560	1.10%	0.094%
81	12.330	2039	2046	2054	rBV	1039637	1366516	90.74%	7.781%
82	12.389	2054	2057	2062	rBV5	12265	21474	1.43%	0.122%
83	12.517	2071	2081	2087	rBV3	30301	92919	6.17%	0.529%
84	12.571	2087	2091	2099	rVB2	34655	56777	3.77%	0.323%
85	12.646	2101	2105	2110	rBV	52362	88548	5.88%	0.504%
86	12.689	2110	2113	2118	rVV2	31175	44977	2.99%	0.256%
87	12.731	2118	2121	2123	rVV3	9148	11217	0.74%	0.064%
88	12.774	2123	2129	2133	rVV2	44421	69152	4.59%	0.394%
89	12.812	2133	2136	2144	rVB	30751	47620	3.16%	0.271%
90	12.897	2146	2152	2156	rBV	33197	47391	3.15%	0.270%
91	12.940	2157	2160	2167	rVB4	11849	22677	1.51%	0.129%
92	13.020	2168	2175	2182	rVB3	20170	29517	1.96%	0.168%
93	13.181	2196	2205	2216	rBV2	971046	1255065	83.34%	7.146%
94	13.464	2247	2258	2261	rBV2	7953	17429	1.16%	0.099%
95	13.855	2327	2331	2334	rBV6	4783	7736	0.51%	0.044%
96	14.122	2380	2381	2385	rVB4	5833	5021	0.33%	0.029%
97	14.844	2511	2516	2519	rBV7	4452	8195	0.54%	0.047%
98	15.170	2570	2577	2580	rBV9	4336	9777	0.65%	0.056%
99	15.309	2598	2603	2607	rBV8	4360	6865	0.46%	0.039%
100	15.711	2675	2678	2683	rBV7	2990	6122	0.41%	0.035%

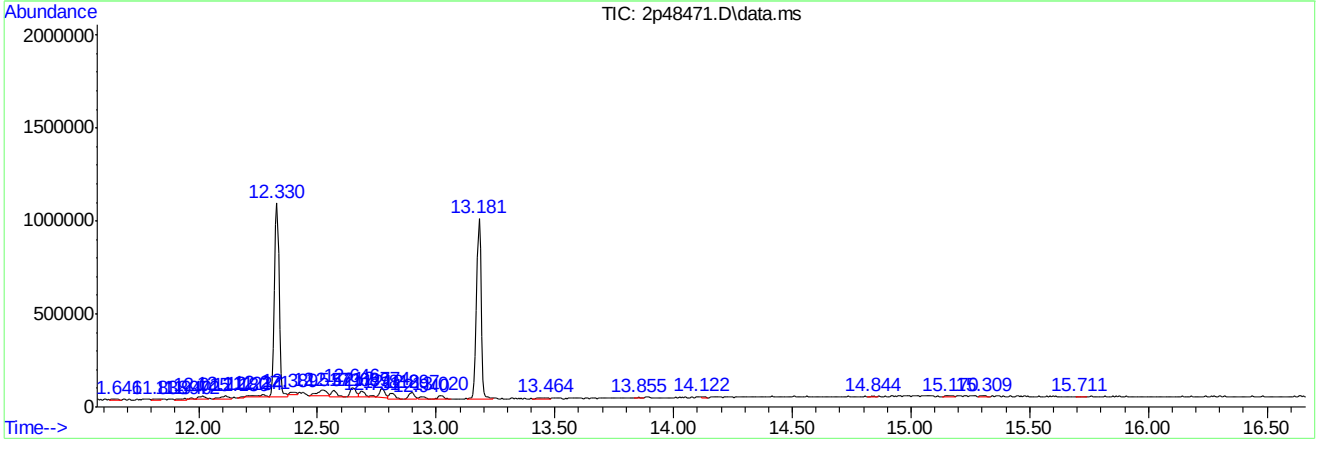
Sum of corrected areas: 17562817

LSC Report - Integrated Chromatogram

```
Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48471.D
Acq On    : 11 May 2015   6:22 pm
Operator  : sarad
Sample    : op83787-mb1
Misc      : op83787,e2p2069,30.0
ALS Vial  : 5   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```







Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48471.D
Acq On : 11 May 2015 6:22 pm
Operator : sarad
Sample : op83787-mb1
Misc : op83787,e2p2069,30.0
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

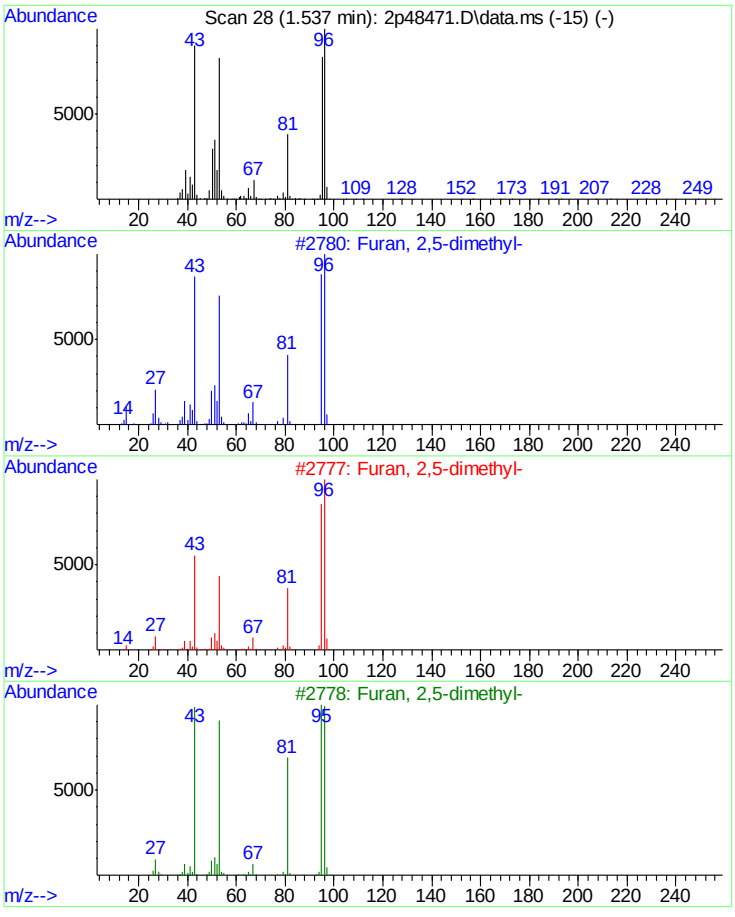
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

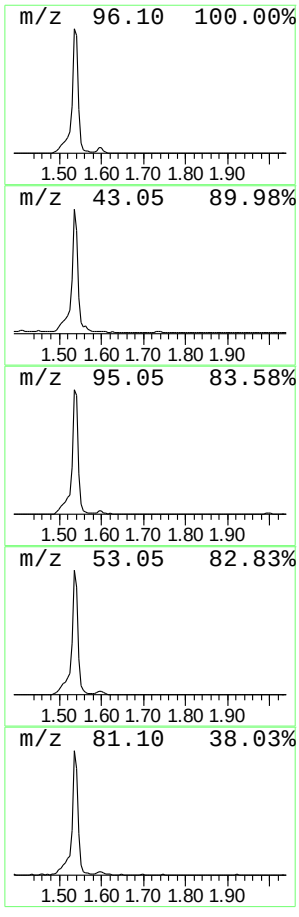
****

Peak Number 1 system artifact Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.537	36.95 ppm	927140	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	94
2	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	91
3	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	90
4	Furan, 2,4-dimethyl-	96	C6H8O	003710-43-8	72
5	2-Cyclopenten-1-one, 3-methyl-	96	C6H8O	002758-18-1	59





Library Search Compound Report

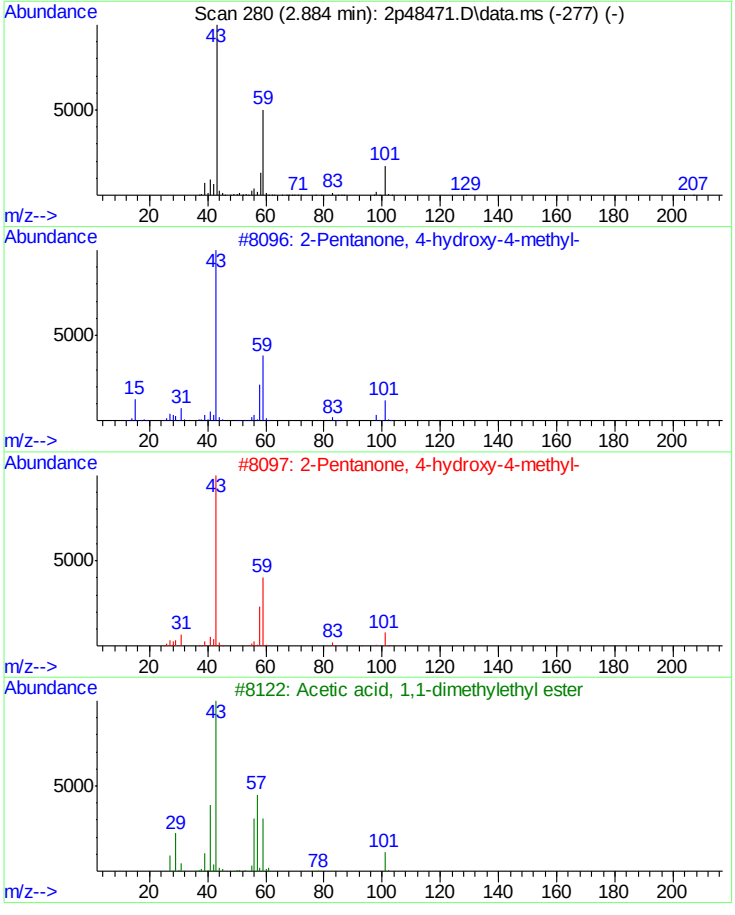
```
Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48471.D
Acq On    : 11 May 2015   6:22 pm
Operator  : sarad
Sample    : op83787-mb1
Misc      : op83787,e2p2069,30.0
ALS Vial  : 5   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library    : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

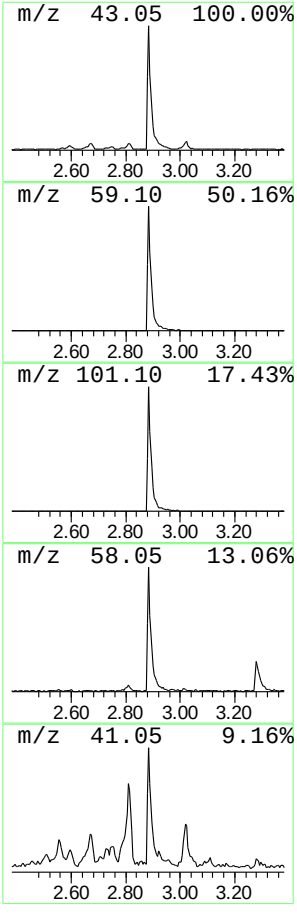
****

Peak Number 2 system artifact/aldol-conde... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.884	12.98 ppm	325713	1,4-Dichlorobenzene-d4	4.318

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	38
3	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	28
4	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	28
5	Butyl aldoxime, 3-methyl-, syn-	101	C5H11NO	005780-40-5	23





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2P2069\
Data File : 2p48471.D
Acq On : 11 May 2015 6:22 pm
Operator : sarad
Sample : op83787-mb1
Misc : op83787,e2p2069,30.0
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
Quant Title : Semi Volatile Extractables by GC/MS

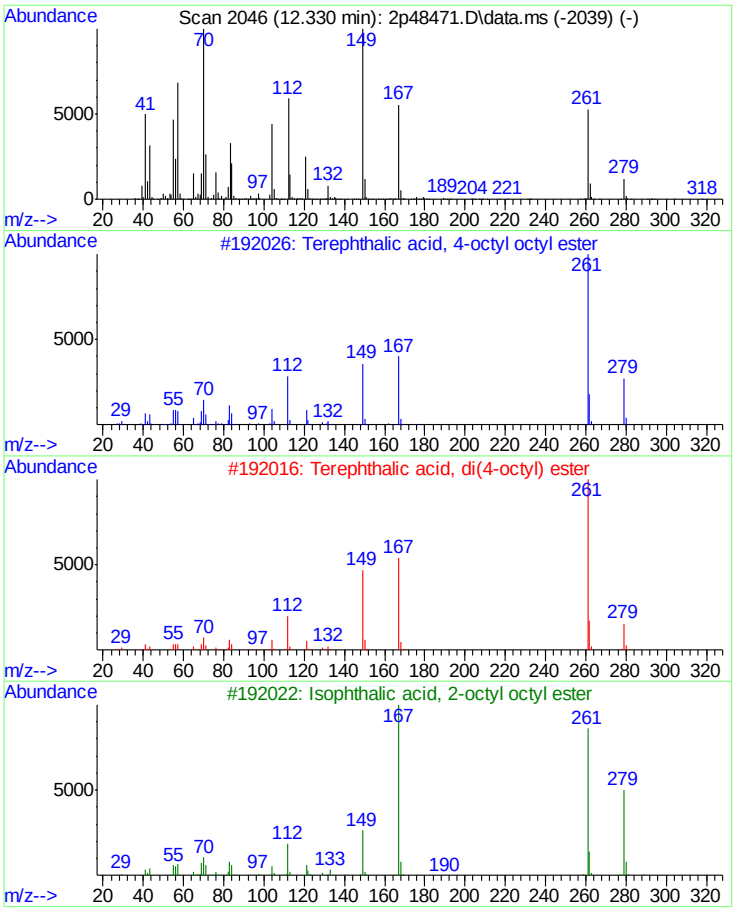
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

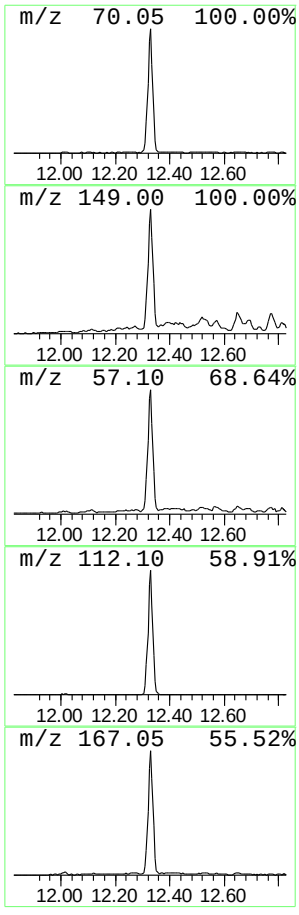
****

Peak Number 3 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.330	43.55 ppm	1366520	Perylene-d12	13.181

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Terephthalic acid, 4-octyl octyl...	390	C24H38O4	1000323-73-7	53
2	Terephthalic acid, di(4-octyl) e...	390	C24H38O4	1000323-74-2	38
3	Isophthalic acid, 2-octyl octyl ...	390	C24H38O4	1000344-21-7	35
4	Phthalic acid, 6-ethyloct-3-yl 2...	418	C26H42O4	1000315-53-8	27
5	1,2-Benzenedicarboxylic acid, di...	390	C24H38O4	027554-26-3	27





Tentatively Identified Compound (LSC) summary

```
  Data Path : C:\msdchem\1\DATA\2P2069\
  Data File : 2p48471.D
  Acq On    : 11 May 2015   6:22 pm
  Operator  : sarad
  Sample    : op83787-mb1
  Misc      : op83787,e2p2069,30.0
  ALS Vial  : 5   Sample Multiplier: 1

  Quant Method : C:\MSDCHEM\1\METHODS\M2P2044.M
  Quant Title  : Semi Volatile Extractables by GC/MS

  TIC Library   : C:\Database\NIST08.L
  TIC Integration Parameters: lscint.p
```

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
system artifact	1.537	37.0	ppm	927140	1	4.318	1003700	40.0
system artifact...	2.884	13.0	ppm	325713	1	4.318	1003700	40.0
unknown	12.330	43.5	ppm	1366520	10	13.181	1255070	40.0

9.2.2

9

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4119\P95331.D Vial: 5
Acq On : 9 May 2015 5:09 pm Operator: kristis
Sample : op83797-mb1 Inst : MSP
Misc : op83797,ep4119,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 09 17:32:11 2015 Quant Results File: MP4082.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed May 06 14:38:22 2015
Response via : Initial Calibration
DataAcq Meth : MP4082

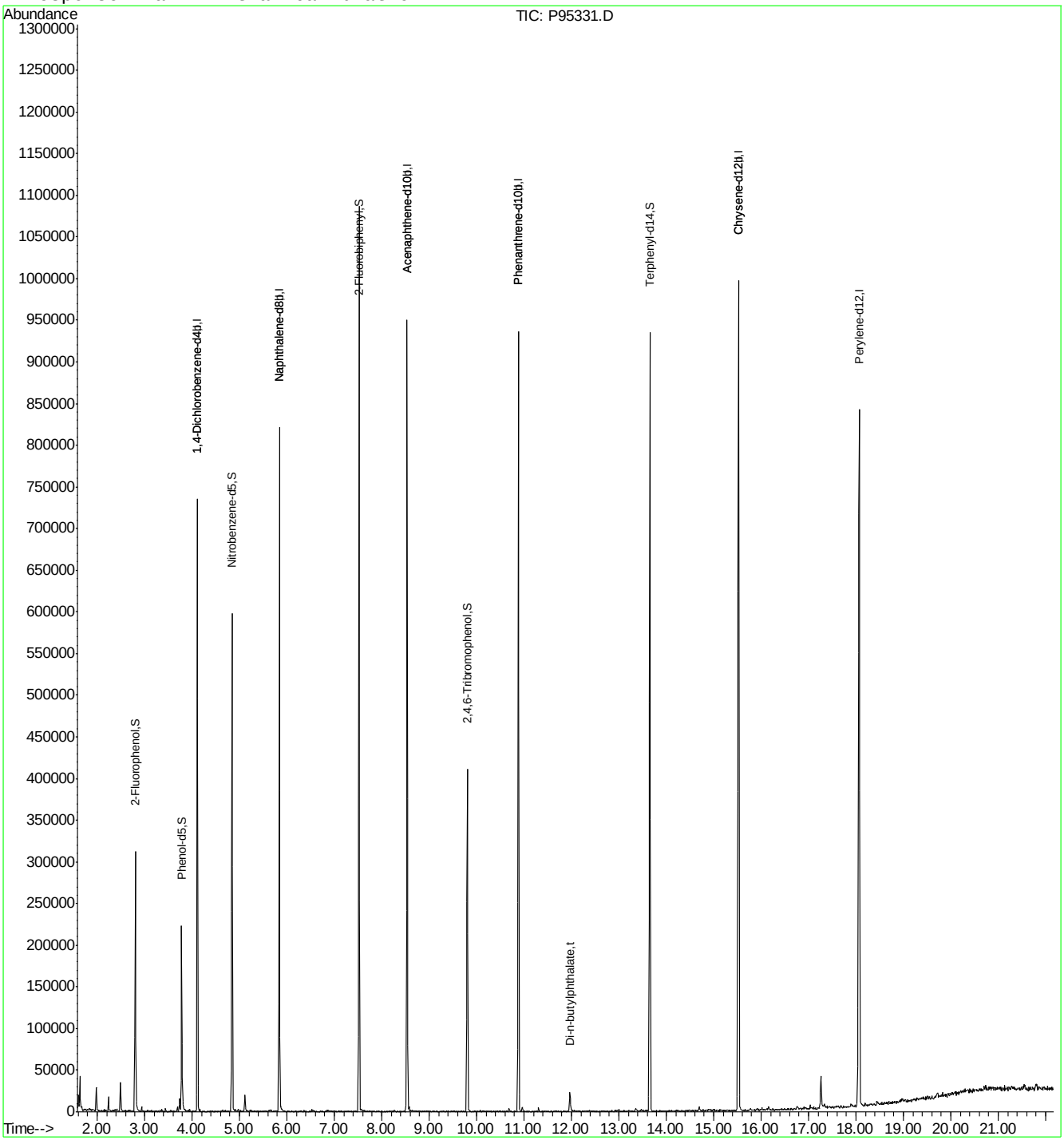
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.11	152	110667	40.00	ppm	-0.04
24) Naphthalene-d8	5.84	136	411312	40.00	ppm	-0.04
47) Acenaphthene-d10	8.54	164	246113	40.00	ppm	-0.05
69) Phenanthrene-d10	10.89	188	411756	40.00	ppm	-0.05
83) Chrysene-d12	15.52	240	513054	40.00	ppm	-0.06
92) Perylene-d12	18.07	264	446154	40.00	ppm	-0.05
102) 1,4-Dichlorobenzene-d4b	4.11	152	110667	40.00	ppm	-0.04
104) Phenanthrene-d10b	10.89	188	411756	40.00	ppm	-0.05
106) Chrysene-d12b	15.52	240	513054	40.00	ppm	-0.06
108) Naphthalene-d8b	5.84	136	411312	40.00	ppm	-0.04
110) Acenaphthene-d10b	8.54	164	246113	40.00	ppm	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	2.80	112	100020	22.80	ppm	-0.03
Spiked Amount 50.000			Recovery = 45.60%			
8) Phenol-d5	3.78	99	86789	16.03	ppm	-0.04
Spiked Amount 50.000			Recovery = 32.06%			
25) Nitrobenzene-d5	4.84	82	208300	47.75	ppm	-0.04
Spiked Amount 50.000			Recovery = 95.50%			
51) 2-Fluorobiphenyl	7.52	172	374359	46.00	ppm	-0.05
Spiked Amount 50.000			Recovery = 92.00%			
73) 2,4,6-Tribromophenol	9.81	330	51762	50.30	ppm	-0.05
Spiked Amount 50.000			Recovery = 100.60%			
85) Terphenyl-d14	13.65	244	396842	37.74	ppm	-0.05
Spiked Amount 50.000			Recovery = 75.48%			
Target Compounds						Qvalue
80) Di-n-butylphthalate	11.97	149	14988	1.09	ppm	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

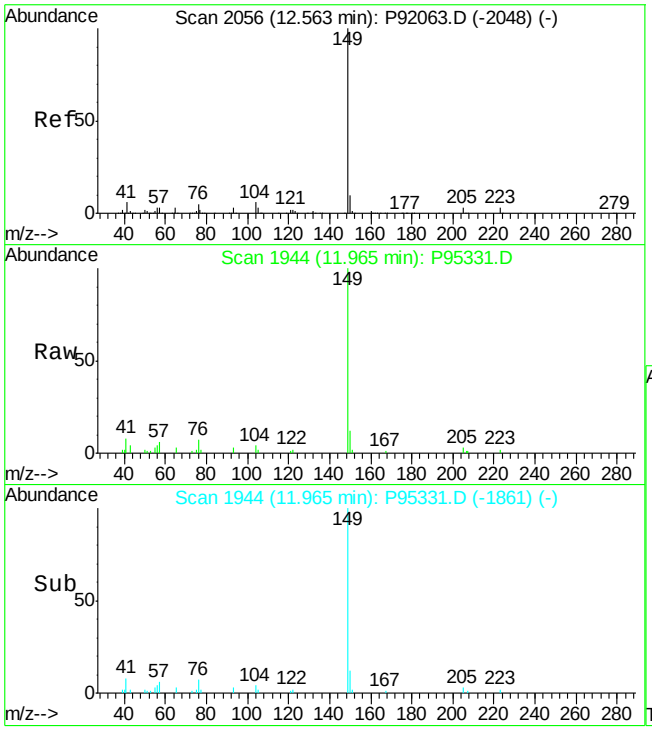
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4119\P95331.D Vial: 5
Acq On : 9 May 2015 5:09 pm Operator: kristis
Sample : op83797-mb1 Inst : MSP
Misc : op83797,ep4119,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 10 12:00 2015 Quant Results File: MP4082.RES

Method : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed May 06 14:38:22 2015
Response via : Initial Calibration



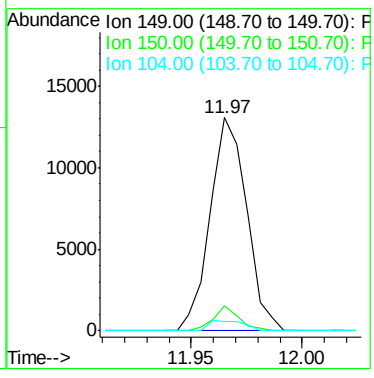
P95331.D MP4082.M Sun May 10 12:00:56 2015 Page 2



#80
Di-n-butylphthalate
Concen: 1.09 ppm
RT: 11.97 min Scan# 1944
Delta R.T. -0.06 min
Lab File: P95331.D
Acq: 9 May 2015 5:09 pm

Tgt Ion:149 Resp: 14988

Ion	Ratio	Lower	Upper
149	100		
150	11.8	0.0	39.3
104	4.3	0.0	35.4



9.2.3

9

LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\EP4119\P95331.D Vial: 5
Acq On : 9 May 2015 5:09 pm Operator: kristis
Sample : op83797-mb1 Inst : MSP
Misc : op83797,ep4119,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.173	107	111	114	rBV	2182	2748	0.19%	0.024%
2	2.210	114	118	120	rVB3	2118	2192	0.15%	0.019%
3	2.237	120	123	127	rBV	17527	17037	1.17%	0.151%
4	2.264	127	128	135	rVB2	2490	2921	0.20%	0.026%
5	2.317	135	138	141	rBV2	2173	2205	0.15%	0.020%
6	2.381	146	150	153	rBV2	2800	2849	0.20%	0.025%
7	2.418	153	157	162	rVB2	2554	3331	0.23%	0.029%
8	2.488	166	170	183	rVV	35085	34716	2.39%	0.307%
9	2.803	220	229	249	rVB	312399	352386	24.24%	3.118%
10	2.937	249	254	259	rBV	6435	7953	0.55%	0.070%
11	3.065	274	278	285	rVB	1608	2124	0.15%	0.019%
12	3.364	330	334	339	rVB2	3524	3666	0.25%	0.032%
13	3.439	343	348	359	rBV2	4096	4609	0.32%	0.041%
14	3.695	387	396	399	rBV	5869	6033	0.42%	0.053%
15	3.743	399	405	408	rBV2	15312	19150	1.32%	0.169%
16	3.781	408	412	427	rVB	222539	241877	16.64%	2.140%
17	3.952	441	444	451	rVB5	2573	3178	0.22%	0.028%
18	4.112	466	474	481	rBV	735438	679906	46.78%	6.015%
19	4.160	481	483	486	rVB	3048	2223	0.15%	0.020%
20	4.641	570	573	577	rVB2	2501	2827	0.19%	0.025%
21	4.844	599	611	622	rBV	598173	583946	40.17%	5.166%
22	4.908	622	623	627	rVV3	2634	2695	0.19%	0.024%
23	4.977	631	636	641	rVB3	2455	3252	0.22%	0.029%
24	5.116	654	662	668	rBV	19624	24676	1.70%	0.218%
25	5.218	677	681	684	rBV	1825	2125	0.15%	0.019%
26	5.506	729	735	737	rVB	1391	1893	0.13%	0.017%
27	5.538	737	741	743	rBV	1466	1651	0.11%	0.015%
28	5.656	751	763	766	rBV4	1956	5088	0.35%	0.045%
29	5.843	792	798	814	rBV	821184	878542	60.44%	7.773%
30	6.521	920	925	929	rBV2	3388	3738	0.26%	0.033%
31	6.548	929	930	939	rVB3	1624	2446	0.17%	0.022%
32	6.842	982	985	986	rBV3	1893	1658	0.11%	0.015%
33	7.520	1105	1112	1118	rBV	1086875	1107872	76.22%	9.802%
34	7.563	1118	1120	1126	rVV3	3210	4086	0.28%	0.036%
35	7.633	1130	1133	1136	rVB	1962	1854	0.13%	0.016%
36	8.535	1294	1302	1308	rBV	950918	1035052	71.21%	9.158%
37	8.578	1308	1310	1313	rVB	5189	3887	0.27%	0.034%
38	8.642	1320	1322	1326	rVB3	1630	1721	0.12%	0.015%

39	8.941	1372	1378	1380	rVB	1476	2244	0.15%	0.020%
40	9.369	1452	1458	1461	rBV2	1402	1729	0.12%	0.015%
41	9.572	1491	1496	1498	rVB	1455	1728	0.12%	0.015%
42	9.711	1518	1522	1527	rBV	1068	1654	0.11%	0.015%
43	9.807	1531	1540	1552	rVV2	410813	494577	34.03%	4.376%
44	10.133	1595	1601	1606	rBV3	1262	2134	0.15%	0.019%
45	10.250	1617	1623	1628	rVB	1332	1754	0.12%	0.016%
46	10.443	1655	1659	1665	rBV	1073	1719	0.12%	0.015%
47	10.683	1700	1704	1709	rBV3	4044	4199	0.29%	0.037%
48	10.886	1733	1742	1750	rBV2	936695	1101906	75.81%	9.749%
49	10.961	1750	1756	1763	rBV2	5326	7227	0.50%	0.064%
50	11.308	1816	1821	1831	rVB	5230	5944	0.41%	0.053%
51	11.442	1845	1846	1853	rVB	1275	1725	0.12%	0.015%
52	11.965	1939	1944	1953	rBV	23795	34720	2.39%	0.307%
53	12.222	1991	1992	1998	rBV	1297	1712	0.12%	0.015%
54	12.579	2055	2059	2064	rBV	1018	1781	0.12%	0.016%
55	12.670	2070	2076	2078	rBV2	1079	1797	0.12%	0.016%
56	12.857	2109	2111	2116	rVB	1624	2096	0.14%	0.019%
57	12.916	2116	2122	2128	rBV3	2169	4200	0.29%	0.037%
58	13.001	2133	2138	2143	rVB5	3036	3899	0.27%	0.034%
59	13.103	2150	2157	2161	rBV2	1557	2619	0.18%	0.023%
60	13.354	2200	2204	2211	rBV4	3956	7181	0.49%	0.064%
61	13.477	2221	2227	2231	rBV4	2613	4083	0.28%	0.036%
62	13.605	2244	2251	2253	rVV4	1126	1964	0.14%	0.017%
63	13.653	2253	2260	2267	rVB2	934313	1200346	82.58%	10.620%
64	13.862	2297	2299	2303	rBV	1542	1823	0.13%	0.016%
65	13.931	2307	2312	2315	rVV	1251	2361	0.16%	0.021%
66	13.984	2319	2322	2327	rVB2	1259	2077	0.14%	0.018%
67	14.321	2382	2385	2388	rBV2	1783	1921	0.13%	0.017%
68	14.487	2411	2416	2422	rBV3	2078	4181	0.29%	0.037%
69	14.551	2422	2428	2430	rVB3	1377	2126	0.15%	0.019%
70	14.599	2433	2437	2440	rBV	1518	2295	0.16%	0.020%
71	14.695	2450	2455	2459	rBV3	5364	7833	0.54%	0.069%
72	14.861	2480	2486	2487	rVB	1102	1691	0.12%	0.015%
73	15.149	2536	2540	2541	rBV3	1362	1680	0.12%	0.015%
74	15.165	2541	2543	2548	rVB4	1828	2066	0.14%	0.018%
75	15.283	2562	2565	2568	rBV	1633	1922	0.13%	0.017%
76	15.373	2580	2582	2586	rBV2	1367	1842	0.13%	0.016%
77	15.432	2589	2593	2596	rBV2	1153	1985	0.14%	0.018%
78	15.523	2600	2610	2624	rBV2	996344	1453530	100.00%	12.860%
79	15.774	2647	2657	2661	rBV6	2896	6443	0.44%	0.057%
80	15.918	2675	2684	2687	rBV5	2683	4489	0.31%	0.040%
81	15.940	2687	2688	2693	rVB3	1595	2183	0.15%	0.019%
82	16.015	2698	2702	2705	rVB4	3096	2702	0.19%	0.024%
83	16.127	2718	2723	2724	rBV3	2510	2211	0.15%	0.020%
84	16.159	2724	2729	2734	rVB3	3764	6006	0.41%	0.053%
85	16.244	2741	2745	2751	rVB5	2545	3455	0.24%	0.031%
86	16.319	2751	2759	2760	rBV3	1753	2989	0.21%	0.026%
87	16.442	2777	2782	2784	rVB2	2085	2138	0.15%	0.019%
88	16.495	2788	2792	2796	rBV2	1973	2536	0.17%	0.022%
89	16.618	2811	2815	2817	rVB4	2330	1919	0.13%	0.017%
90	16.645	2817	2820	2823	rVB2	2399	2408	0.17%	0.021%
91	16.752	2832	2840	2849	rBV7	3997	9447	0.65%	0.084%
92	16.805	2849	2850	2859	rVB6	1770	3822	0.26%	0.034%
93	16.864	2859	2861	2864	rBV3	1928	2089	0.14%	0.018%
94	16.907	2864	2869	2871	rBV3	3090	2454	0.17%	0.022%
95	17.035	2887	2893	2899	rBV7	5216	9193	0.63%	0.081%

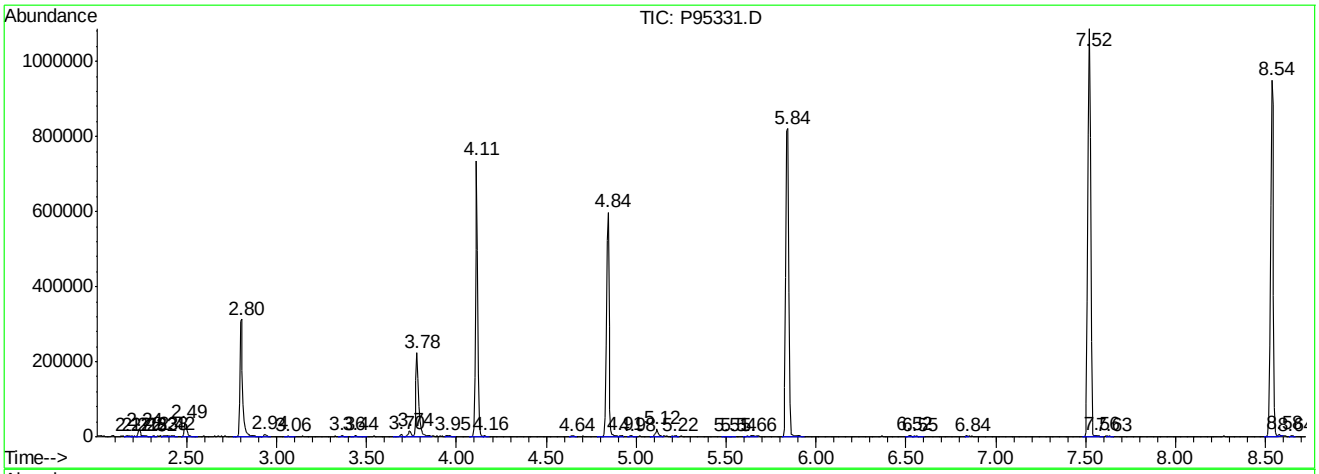
96	17.104	2903	2906	2909	rVB3	2587	2496	0.17%	0.022%
97	17.259	2927	2935	2944	rBV3	39212	62529	4.30%	0.553%
98	17.334	2944	2949	2954	rVV5	4796	8777	0.60%	0.078%
99	17.377	2954	2957	2959	rVB3	1740	1729	0.12%	0.015%
100	17.500	2977	2980	2984	rVB4	2090	2466	0.17%	0.022%
101	17.558	2987	2991	2993	rBV4	1942	2278	0.16%	0.020%
102	17.585	2993	2996	2998	rVV3	2033	1899	0.13%	0.017%
103	17.623	2998	3003	3007	rVB3	2381	3503	0.24%	0.031%
104	17.687	3010	3015	3017	rBV6	3136	2827	0.19%	0.025%
105	17.815	3034	3039	3041	rBV4	1509	1922	0.13%	0.017%
106	17.836	3041	3043	3046	rVB3	1615	1748	0.12%	0.015%
107	17.890	3046	3053	3058	rBV8	4151	9901	0.68%	0.088%
108	17.932	3058	3061	3064	rVV4	2060	2121	0.15%	0.019%
109	17.986	3064	3071	3075	rVB7	2755	4937	0.34%	0.044%
110	18.066	3075	3086	3097	rBV	837076	1335381	91.87%	11.815%
111	18.141	3097	3100	3104	rVB5	2557	3553	0.24%	0.031%
112	18.242	3115	3119	3120	rVB4	2829	2889	0.20%	0.026%
113	18.264	3120	3123	3126	rBV5	2615	3611	0.25%	0.032%
114	18.301	3126	3130	3132	rBV3	2197	3303	0.23%	0.029%
115	18.333	3132	3136	3139	rVB4	2269	3524	0.24%	0.031%
116	18.370	3139	3143	3146	rBV5	2648	3025	0.21%	0.027%
117	18.440	3151	3156	3162	rBV9	5640	11944	0.82%	0.106%
118	18.477	3162	3163	3167	rVB4	2224	1749	0.12%	0.015%
119	18.525	3167	3172	3173	rBV4	2009	2092	0.14%	0.019%
120	18.547	3173	3176	3180	rBV5	3238	2589	0.18%	0.023%
121	18.600	3184	3186	3188	rBV3	2336	1991	0.14%	0.018%
122	18.664	3196	3198	3200	rVB3	2397	1782	0.12%	0.016%
123	18.696	3200	3204	3207	rBV5	3692	3598	0.25%	0.032%
124	18.728	3207	3210	3211	rVB3	2542	2046	0.14%	0.018%
125	18.782	3217	3220	3223	rBV5	3255	2586	0.18%	0.023%
126	18.846	3227	3232	3234	rVB6	3108	4078	0.28%	0.036%
127	18.867	3234	3236	3239	rBV4	2641	2352	0.16%	0.021%
128	18.942	3242	3250	3251	rVV8	3710	6324	0.44%	0.056%
129	18.958	3251	3253	3255	rVV3	4383	3489	0.24%	0.031%
130	18.974	3255	3256	3261	rVV5	4876	5245	0.36%	0.046%
131	19.033	3265	3267	3269	rVB3	2859	2449	0.17%	0.022%
132	19.086	3274	3277	3280	rVB4	3078	2341	0.16%	0.021%
133	19.118	3280	3283	3286	rBV5	2371	2406	0.17%	0.021%
134	19.172	3289	3293	3294	rVB4	3542	3837	0.26%	0.034%
135	19.220	3294	3302	3308	rBV4	4870	14052	0.97%	0.124%
136	19.289	3312	3315	3318	rVB4	3752	3323	0.23%	0.029%
137	19.327	3320	3322	3323	rBV2	2722	1834	0.13%	0.016%
138	19.375	3327	3331	3332	rVB4	2134	2410	0.17%	0.021%
139	19.401	3334	3336	3338	rVB3	2257	1689	0.12%	0.015%
140	19.418	3338	3339	3341	rBV2	2988	1657	0.11%	0.015%
141	19.476	3349	3350	3354	rBV4	3423	3438	0.24%	0.030%
142	19.508	3354	3356	3360	rVV4	3967	5321	0.37%	0.047%
143	19.551	3361	3364	3365	rVB3	3013	2257	0.16%	0.020%
144	19.578	3368	3369	3372	rBV3	1659	1649	0.11%	0.015%
145	19.599	3372	3373	3380	rVB6	3907	4269	0.29%	0.038%
146	19.669	3380	3386	3387	rBV5	3465	4868	0.33%	0.043%
147	19.711	3389	3394	3400	rBV10	5732	12721	0.88%	0.113%
148	19.765	3400	3404	3405	rBV4	2123	2157	0.15%	0.019%
149	19.802	3409	3411	3413	rBV3	2061	1974	0.14%	0.017%
150	19.829	3413	3416	3418	rBV4	5096	2929	0.20%	0.026%
151	19.856	3418	3421	3422	rBV2	2262	1642	0.11%	0.015%

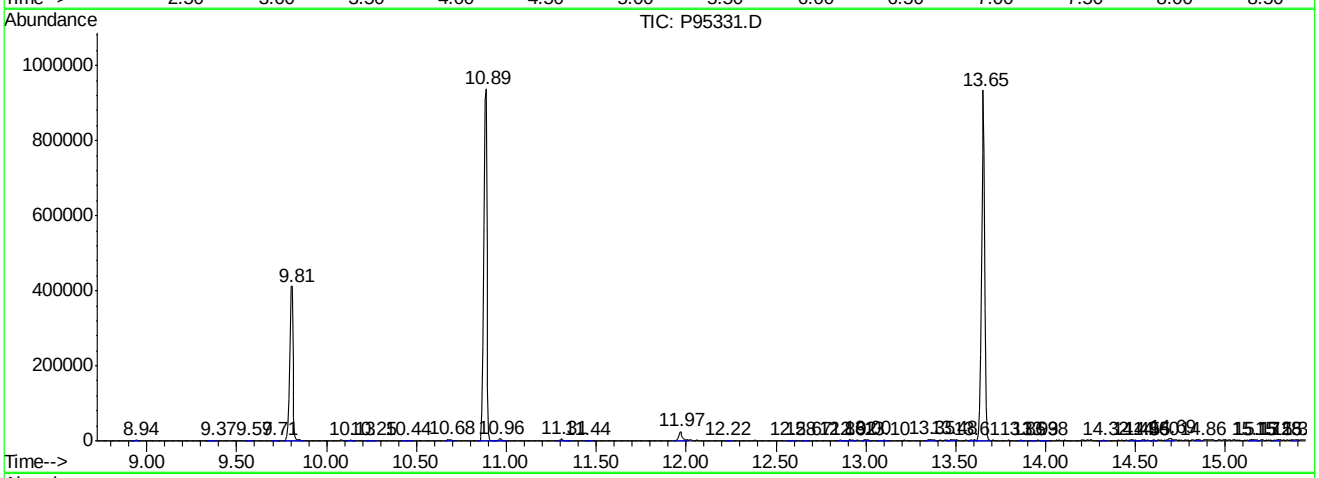
152	19.877	3422	3425	3428	rVB5	2480	3116	0.21%	0.028%
153	19.904	3428	3430	3432	rVB3	3497	2841	0.20%	0.025%
154	19.946	3432	3438	3440	rBV7	4821	7385	0.51%	0.065%
155	19.978	3443	3444	3447	rBV3	2976	3130	0.22%	0.028%
156	20.021	3451	3452	3454	rBV2	3654	1948	0.13%	0.017%
157	20.085	3461	3464	3466	rBV4	3606	3654	0.25%	0.032%
158	20.128	3470	3472	3473	rBV2	3872	2594	0.18%	0.023%
159	20.165	3478	3479	3482	rBV3	3538	3108	0.21%	0.027%
160	20.208	3484	3487	3491	rBV5	3367	4193	0.29%	0.037%
161	20.235	3491	3492	3496	rVV4	2350	2037	0.14%	0.018%
162	20.272	3498	3499	3502	rVV3	3413	2062	0.14%	0.018%
163	20.400	3521	3523	3524	rBV2	4900	2296	0.16%	0.020%
164	20.422	3525	3527	3528	rVV2	3727	2415	0.17%	0.021%
165	20.465	3532	3535	3536	rBV3	4626	4149	0.29%	0.037%
166	20.497	3540	3541	3544	rBV3	2859	2690	0.19%	0.024%
167	20.598	3558	3560	3561	rBV2	2857	1853	0.13%	0.016%
168	20.614	3562	3563	3567	rVB4	2681	2449	0.17%	0.022%
169	20.646	3567	3569	3574	rBV6	2305	2597	0.18%	0.023%
170	20.700	3574	3579	3582	rBV7	5497	7773	0.53%	0.069%
171	20.726	3582	3584	3589	rVB6	5980	6468	0.44%	0.057%
172	20.790	3595	3596	3599	rBV3	4371	3271	0.23%	0.029%
173	20.817	3599	3601	3602	rVV2	3117	2268	0.16%	0.020%
174	20.833	3603	3604	3607	rVB3	4361	3735	0.26%	0.033%
175	20.892	3607	3615	3618	rBV10	3823	9361	0.64%	0.083%
176	20.913	3618	3619	3622	rBV3	2963	2111	0.15%	0.019%
177	21.009	3633	3637	3638	rVB4	2688	2869	0.20%	0.025%
178	21.031	3638	3641	3642	rBV3	4034	2665	0.18%	0.024%
179	21.063	3646	3647	3650	rVB3	4317	3775	0.26%	0.033%
180	21.100	3650	3654	3655	rBV4	4984	5668	0.39%	0.050%
181	21.138	3658	3661	3663	rBV4	6699	4227	0.29%	0.037%
182	21.186	3669	3670	3674	rVB4	4716	4906	0.34%	0.043%
183	21.213	3674	3675	3677	rBV2	4055	3064	0.21%	0.027%
184	21.341	3698	3699	3706	rVB7	3712	3328	0.23%	0.029%
185	21.448	3718	3719	3724	rBV4	2690	3677	0.25%	0.033%
186	21.480	3724	3725	3729	rBV4	3415	3090	0.21%	0.027%
187	21.538	3731	3736	3744	rVB4	7021	14177	0.98%	0.125%
188	21.608	3748	3749	3751	rBV2	3850	2201	0.15%	0.019%
189	21.629	3751	3753	3754	rVB2	3660	2346	0.16%	0.021%
190	21.640	3754	3755	3757	rBV2	4706	2455	0.17%	0.022%
191	21.661	3757	3759	3761	rBV3	3022	2305	0.16%	0.020%
192	21.720	3768	3770	3774	rBV5	2471	2848	0.20%	0.025%
193	21.795	3779	3784	3787	rVV7	7467	11016	0.76%	0.097%
194	21.838	3791	3792	3794	rBV2	4093	2255	0.16%	0.020%
195	21.854	3794	3795	3806	rVV10	3612	8062	0.55%	0.071%
196	21.928	3806	3809	3811	rVB4	4536	3396	0.23%	0.030%
197	21.966	3811	3816	3820	rBV7	4398	8181	0.56%	0.072%
198	22.041	3828	3830	3832	rBV3	5459	3635	0.25%	0.032%
199	22.089	3837	3839	3841	rVV3	3622	3538	0.24%	0.031%
200	22.126	3844	3846	3848	rVB3	4057	3024	0.21%	0.027%

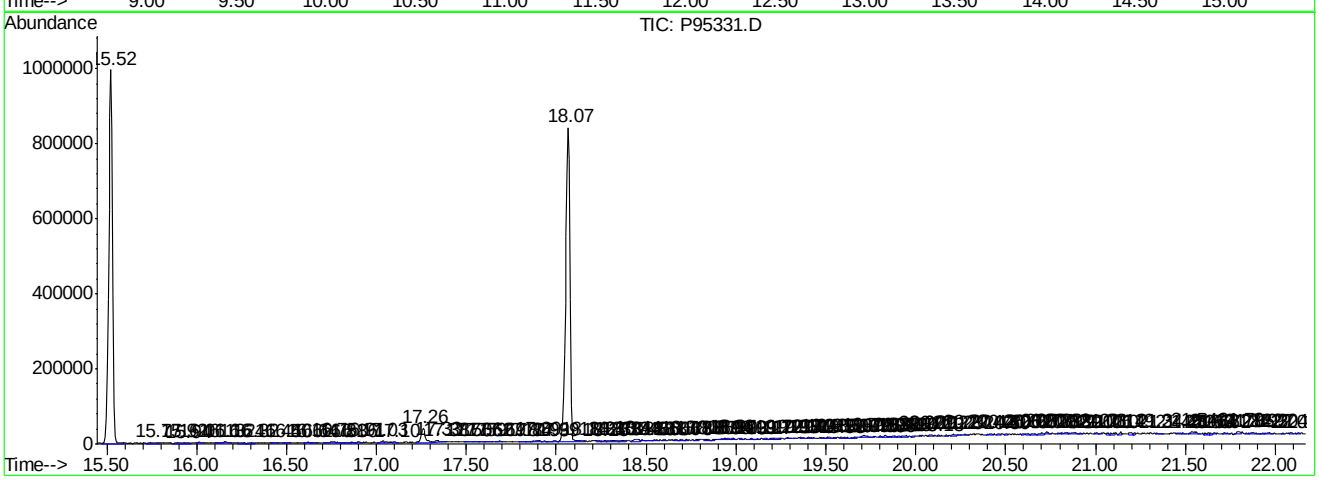
Sum of corrected areas: 11302587

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\EP4119\P95331.D
Operator : kristis
Acquired : 9 May 2015 5:09 pm using AcqMethod MP4082
Instrument : MSP
Sample Name: op83797-mb1
Misc Info : op83797,ep4119,1000,,,1,1
Vial Number: 5
Quant File :MP4082.RES (RTE Integrator)







Tentatively Identified Compound (LSC) summary

Operator ID: kristis Date Acquired: 9 May 2015 5:09 pm
Data File: C:\MSDCHEM\1\DATA\EP4119\P95331.D
Name: op83797-mb1
Misc: op83797,ep4119,1000,,,1,1
Method: C:\MSDCHEM\1\METHODS\MP4082.M (RTE Integrator)
Title: Semi Volatile Extractables by GC/MS
Library Searched: C:\DATABASE\NIST08.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc

9.2.4

9

New Jersey
ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- DDT/Endrin Breakdown Checks
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83792-MB1	1G111469.D	1	05/11/15	JR	05/09/15	OP83792	G1G3674

The QC reported here applies to the following samples: **Method:** SW846 8081B

JB94209-13, JB94209-14, JB94209-15, JB94209-16, JB94209-17

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0067	0.0028	ug/l	
319-84-6	alpha-BHC	ND	0.0067	0.0043	ug/l	
319-85-7	beta-BHC	ND	0.0067	0.0057	ug/l	
319-86-8	delta-BHC	ND	0.0067	0.0043	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0067	0.0035	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0067	0.0040	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0067	0.0033	ug/l	
60-57-1	Dieldrin	ND	0.0067	0.0033	ug/l	
72-54-8	4,4'-DDD	ND	0.0067	0.0043	ug/l	
72-55-9	4,4'-DDE	ND	0.0067	0.0041	ug/l	
50-29-3	4,4'-DDT	ND	0.0067	0.0034	ug/l	
72-20-8	Endrin	ND	0.0067	0.0030	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0067	0.0048	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0067	0.0049	ug/l	
53494-70-5	Endrin ketone	ND	0.0067	0.0031	ug/l	
959-98-8	Endosulfan-I	ND	0.0067	0.0042	ug/l	
33213-65-9	Endosulfan-II	ND	0.0067	0.0044	ug/l	
76-44-8	Heptachlor	ND	0.0067	0.0033	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0067	0.0054	ug/l	
72-43-5	Methoxychlor	ND	0.013	0.0048	ug/l	
8001-35-2	Toxaphene	ND	0.17	0.099	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	85%	26-132%
877-09-8	Tetrachloro-m-xylene	105%	26-132%
2051-24-3	Decachlorobiphenyl	83%	10-118%
2051-24-3	Decachlorobiphenyl	88%	10-118%

Method Blank Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83920-MB1	4G56086.D	1	05/14/15	RK	05/14/15	OP83920	G4G1469

The QC reported here applies to the following samples: **Method:** SW846 8081B

JB94209-1, JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-9, JB94209-10, JB94209-11, JB94209-12, JB94209-18

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.67	0.31	ug/kg	
319-84-6	alpha-BHC	ND	0.67	0.20	ug/kg	
319-85-7	beta-BHC	ND	0.67	0.42	ug/kg	
319-86-8	delta-BHC	ND	0.67	0.33	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.67	0.33	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.67	0.25	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.67	0.46	ug/kg	
60-57-1	Dieldrin	ND	0.67	0.26	ug/kg	
72-54-8	4,4'-DDD	ND	0.67	0.36	ug/kg	
72-55-9	4,4'-DDE	ND	0.67	0.27	ug/kg	
50-29-3	4,4'-DDT	ND	0.67	0.33	ug/kg	
72-20-8	Endrin	ND	0.67	0.22	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.67	0.29	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.67	0.35	ug/kg	
959-98-8	Endosulfan-I	ND	0.67	0.25	ug/kg	
33213-65-9	Endosulfan-II	ND	0.67	0.40	ug/kg	
76-44-8	Heptachlor	ND	0.67	0.32	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.67	0.25	ug/kg	
72-43-5	Methoxychlor	ND	1.3	0.65	ug/kg	
53494-70-5	Endrin ketone	ND	0.67	0.27	ug/kg	
8001-35-2	Toxaphene	ND	17	8.4	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	86%	10-129%
877-09-8	Tetrachloro-m-xylene	85%	10-129%
2051-24-3	Decachlorobiphenyl	78%	10-144%
2051-24-3	Decachlorobiphenyl	77%	10-144%

Method Blank Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83920-MB1	6G22917.D	1	05/14/15	RK	05/14/15	OP83920	G6G684

The QC reported here applies to the following samples: **Method:** SW846 8081B

JB94209-1, JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-9, JB94209-10, JB94209-11, JB94209-12, JB94209-18

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.67	0.31	ug/kg	
319-84-6	alpha-BHC	ND	0.67	0.20	ug/kg	
319-85-7	beta-BHC	ND	0.67	0.42	ug/kg	
319-86-8	delta-BHC	ND	0.67	0.33	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.67	0.33	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.67	0.25	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.67	0.46	ug/kg	
60-57-1	Dieldrin	ND	0.67	0.26	ug/kg	
72-54-8	4,4'-DDD	ND	0.67	0.36	ug/kg	
72-55-9	4,4'-DDE	ND	0.67	0.27	ug/kg	
50-29-3	4,4'-DDT	ND	0.67	0.33	ug/kg	
72-20-8	Endrin	ND	0.67	0.22	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.67	0.29	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.67	0.35	ug/kg	
959-98-8	Endosulfan-I	ND	0.67	0.25	ug/kg	
33213-65-9	Endosulfan-II	ND	0.67	0.40	ug/kg	
76-44-8	Heptachlor	ND	0.67	0.32	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.67	0.25	ug/kg	
72-43-5	Methoxychlor	ND	1.3	0.65	ug/kg	
53494-70-5	Endrin ketone	ND	0.67	0.27	ug/kg	
8001-35-2	Toxaphene	ND	17	8.4	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	90%	10-129%
877-09-8	Tetrachloro-m-xylene	92%	10-129%
2051-24-3	Decachlorobiphenyl	74%	10-144%
2051-24-3	Decachlorobiphenyl	98%	10-144%

Method Blank Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83793-MB1	2G113835.D	1	05/13/15	DG	05/09/15	OP83793	G2G3351

The QC reported here applies to the following samples: **Method:** SW846 8082A

JB94209-13, JB94209-14, JB94209-15, JB94209-16, JB94209-17

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.40	0.10	ug/l	
11104-28-2	Aroclor 1221	ND	0.40	0.22	ug/l	
11141-16-5	Aroclor 1232	ND	0.40	0.31	ug/l	
53469-21-9	Aroclor 1242	ND	0.40	0.069	ug/l	
12672-29-6	Aroclor 1248	ND	0.40	0.12	ug/l	
11097-69-1	Aroclor 1254	ND	0.40	0.11	ug/l	
11096-82-5	Aroclor 1260	ND	0.40	0.17	ug/l	
11100-14-4	Aroclor 1268	ND	0.40	0.10	ug/l	
37324-23-5	Aroclor 1262	ND	0.40	0.048	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	119%	20-130%
877-09-8	Tetrachloro-m-xylene	101%	20-130%
2051-24-3	Decachlorobiphenyl	110%	10-122%
2051-24-3	Decachlorobiphenyl	93%	10-122%

Method Blank Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83802-MB1	2G113691.D	1	05/11/15	DG	05/10/15	OP83802	G2G3349

The QC reported here applies to the following samples: **Method:** SW846 8082A

JB94209-1, JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-9, JB94209-10, JB94209-11, JB94209-12, JB94209-18

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	8.7	ug/kg	
11104-28-2	Aroclor 1221	ND	33	20	ug/kg	
11141-16-5	Aroclor 1232	ND	33	17	ug/kg	
53469-21-9	Aroclor 1242	ND	33	11	ug/kg	
12672-29-6	Aroclor 1248	ND	33	10	ug/kg	
11097-69-1	Aroclor 1254	ND	33	16	ug/kg	
11096-82-5	Aroclor 1260	ND	33	11	ug/kg	
11100-14-4	Aroclor 1268	ND	33	9.8	ug/kg	
37324-23-5	Aroclor 1262	ND	33	11	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	130%	14-139%
877-09-8	Tetrachloro-m-xylene	110%	14-139%
2051-24-3	Decachlorobiphenyl	103%	10-155%
2051-24-3	Decachlorobiphenyl	90%	10-155%

Blank Spike Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83792-BS1	1G111470.D	1	05/11/15	JR	05/09/15	OP83792	G1G3674

The QC reported here applies to the following samples: **Method:** SW846 8081B

JB94209-13, JB94209-14, JB94209-15, JB94209-16, JB94209-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
309-00-2	Aldrin	0.167	0.15	90	38-138
319-84-6	alpha-BHC	0.167	0.15	90	51-144
319-85-7	beta-BHC	0.167	0.15	90	55-137
319-86-8	delta-BHC	0.167	0.16	96	33-148
58-89-9	gamma-BHC (Lindane)	0.167	0.14	84	53-142
5103-71-9	alpha-Chlordane	0.167	0.15	90	52-137
5103-74-2	gamma-Chlordane	0.167	0.16	96	52-140
60-57-1	Dieldrin	0.167	0.15	90	54-144
72-54-8	4,4'-DDD	0.167	0.12	72	46-151
72-55-9	4,4'-DDE	0.167	0.14	84	51-142
50-29-3	4,4'-DDT	0.167	0.12	72	53-158
72-20-8	Endrin	0.167	0.14	84	53-149
1031-07-8	Endosulfan sulfate	0.167	0.17	102	49-148
7421-93-4	Endrin aldehyde	0.167	0.15	90	45-137
53494-70-5	Endrin ketone	0.167	0.15	90	48-142
959-98-8	Endosulfan-I	0.167	0.15	90	54-139
33213-65-9	Endosulfan-II	0.167	0.16	96	54-142
76-44-8	Heptachlor	0.167	0.12	72	45-137
1024-57-3	Heptachlor epoxide	0.167	0.15	90	54-140
72-43-5	Methoxychlor	0.167	0.12	72	51-157

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	81%	26-132%
877-09-8	Tetrachloro-m-xylene	97%	26-132%
2051-24-3	Decachlorobiphenyl	76%	10-118%
2051-24-3	Decachlorobiphenyl	73%	10-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83920-BS1	4G56087.D	1	05/14/15	RK	05/14/15	OP83920	G4G1469

The QC reported here applies to the following samples: **Method:** SW846 8081B

JB94209-1, JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-9, JB94209-10, JB94209-11, JB94209-12, JB94209-18

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
309-00-2	Aldrin	16.7	13.3	80	38-150
319-84-6	alpha-BHC	16.7	13.4	80	35-145
319-85-7	beta-BHC	16.7	13.2	79	38-139
319-86-8	delta-BHC	16.7	13.7	82	25-142
58-89-9	gamma-BHC (Lindane)	16.7	13.1	79	35-143
5103-71-9	alpha-Chlordane	16.7	12.8	77	40-140
5103-74-2	gamma-Chlordane	16.7	12.8	77	37-146
60-57-1	Dieldrin	16.7	12.6	76	30-148
72-54-8	4,4'-DDD	16.7	12.4	74	35-149
72-55-9	4,4'-DDE	16.7	12.6	76	39-146
50-29-3	4,4'-DDT	16.7	13.1	79	47-153
72-20-8	Endrin	16.7	12.6	76	42-146
1031-07-8	Endosulfan sulfate	16.7	13.4	80	39-142
7421-93-4	Endrin aldehyde	16.7	12.0	72	35-129
959-98-8	Endosulfan-I	16.7	12.4	74	39-141
33213-65-9	Endosulfan-II	16.7	12.1	73	40-140
76-44-8	Heptachlor	16.7	13.8	83	43-140
1024-57-3	Heptachlor epoxide	16.7	12.9	77	39-143
72-43-5	Methoxychlor	16.7	14.1	85	47-149
53494-70-5	Endrin ketone	16.7	12.3	74	37-137

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	83%	10-129%
877-09-8	Tetrachloro-m-xylene	83%	10-129%
2051-24-3	Decachlorobiphenyl	69%	10-144%
2051-24-3	Decachlorobiphenyl	59%	10-144%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83802-BS1	2G113692.D	1	05/11/15	DG	05/10/15	OP83802	G2G3349

The QC reported here applies to the following samples: **Method:** SW846 8082A

JB94209-1, JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-9, JB94209-10, JB94209-11, JB94209-12, JB94209-18

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	133	153	115 [a]	52-146
11104-28-2	Aroclor 1221		ND		70-130
11141-16-5	Aroclor 1232		ND		70-130
53469-21-9	Aroclor 1242		ND		70-130
12672-29-6	Aroclor 1248		ND		70-130
11097-69-1	Aroclor 1254		ND		70-130
11096-82-5	Aroclor 1260	133	146	109 [a]	48-140
11100-14-4	Aroclor 1268		ND		50-150 [b]
37324-23-5	Aroclor 1262		ND		50-150 [b]

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	112%	14-139%
877-09-8	Tetrachloro-m-xylene	97%	14-139%
2051-24-3	Decachlorobiphenyl	91%	10-155%
2051-24-3	Decachlorobiphenyl	78%	10-155%

(a) Reported from 1st signal. %D of end check calibration on 2nd signal exceed method criteria (20%) so using for confirmation only.
(b) Advisory control limits.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83793-BS1	2G113836.D	1	05/13/15	DG	05/09/15	OP83793	G2G3351
OP83793-BSD	2G113837.D	1	05/13/15	DG	05/09/15	OP83793	G2G3351

The QC reported here applies to the following samples: **Method:** SW846 8082A

JB94209-13, JB94209-14, JB94209-15, JB94209-16, JB94209-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	1.6	1.7	106	1.8	113	6	54-146/30
11104-28-2	Aroclor 1221		ND		ND		nc	70-130/30
11141-16-5	Aroclor 1232		ND		ND		nc	70-130/30
53469-21-9	Aroclor 1242		ND		ND		nc	70-130/30
12672-29-6	Aroclor 1248		ND		ND		nc	70-130/30
11097-69-1	Aroclor 1254		ND		ND		nc	70-130/30
11096-82-5	Aroclor 1260	1.6	1.5	94	1.5	94	0	51-138/30
11100-14-4	Aroclor 1268		ND		ND		nc	50-150/30 [a]
37324-23-5	Aroclor 1262		ND		ND		nc	50-150/30 [a]

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	102%	106%	20-130%
877-09-8	Tetrachloro-m-xylene	93%	93%	20-130%
2051-24-3	Decachlorobiphenyl	106%	107%	10-122%
2051-24-3	Decachlorobiphenyl	92%	94%	10-122%

(a) Advisory control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83792-MS	1G111542.D	1	05/12/15	RK	05/09/15	OP83792	G1G3675
OP83792-MSD	1G111543.D	1	05/12/15	RK	05/09/15	OP83792	G1G3675
JB94209-13	1G111541.D	1	05/12/15	RK	05/09/15	OP83792	G1G3675

The QC reported here applies to the following samples: **Method:** SW846 8081B

JB94209-13, JB94209-14, JB94209-15, JB94209-16, JB94209-17

CAS No.	Compound	JB94209-13 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		0.333	0.41	123	0.333	0.42	126	2	37-159/40
319-84-6	alpha-BHC	ND		0.333	0.35	105	0.333	0.35	105	0	37-164/37
319-85-7	beta-BHC	ND		0.333	0.34	102	0.333	0.33	99	3	46-151/36
319-86-8	delta-BHC	ND		0.333	0.34	102	0.333	0.31	93	9	32-168/36
58-89-9	gamma-BHC (Lindane)	ND		0.333	0.34	102	0.333	0.34	102	0	44-160/37
5103-71-9	alpha-Chlordane	ND		0.333	0.34	102	0.333	0.34	102	0	38-160/35
5103-74-2	gamma-Chlordane	ND		0.333	0.35	105	0.333	0.36	108	3	39-157/37
60-57-1	Dieldrin	ND		0.333	0.35	105	0.333	0.35	105	0	42-161/36
72-54-8	4,4'-DDD	ND		0.333	0.35	105	0.333	0.35	105	0	40-161/36
72-55-9	4,4'-DDE	ND		0.333	0.34	102	0.333	0.35	105	3	34-158/36
50-29-3	4,4'-DDT	ND		0.333	0.34	102	0.333	0.34	102	0	41-173/33
72-20-8	Endrin	ND		0.333	0.34	102	0.333	0.34	102	0	44-166/35
1031-07-8	Endosulfan sulfate	ND		0.333	0.35	105	0.333	0.34	102	3	46-161/36
7421-93-4	Endrin aldehyde	ND		0.333	0.33	99	0.333	0.33	99	0	34-149/36
53494-70-5	Endrin ketone	ND		0.333	0.32	96	0.333	0.31	93	3	44-157/36
959-98-8	Endosulfan-I	ND		0.333	0.34	102	0.333	0.34	102	0	43-154/35
33213-65-9	Endosulfan-II	ND		0.333	0.35	105	0.333	0.35	105	0	40-162/35
76-44-8	Heptachlor	ND		0.333	0.34	102	0.333	0.34	102	0	33-153/37
1024-57-3	Heptachlor epoxide	ND		0.333	0.34	102	0.333	0.34	102	0	45-154/37
72-43-5	Methoxychlor	ND		0.333	0.34	102	0.333	0.34	102	0	48-169/32
8001-35-2	Toxaphene	ND			ND			ND		nc	50-150/30

CAS No.	Surrogate Recoveries	MS	MSD	JB94209-13	Limits
877-09-8	Tetrachloro-m-xylene	92%	93%	84%	26-132%
877-09-8	Tetrachloro-m-xylene	99%	101%	91%	26-132%
2051-24-3	Decachlorobiphenyl	66%	66%	53%	10-118%
2051-24-3	Decachlorobiphenyl	64%	64%	52%	10-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83920-MS	4G56088.D	1	05/14/15	RK	05/14/15	OP83920	G4G1469
OP83920-MSD	4G56089.D	1	05/14/15	RK	05/14/15	OP83920	G4G1469
JB94209-18	4G56102.D	1	05/14/15	RK	05/14/15	OP83920	G4G1469

The QC reported here applies to the following samples: **Method:** SW846 8081B

JB94209-1, JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-9, JB94209-10, JB94209-11, JB94209-12, JB94209-18

CAS No.	Compound	JB94209-18 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		19.4	15.5	80	19.4	16.0	82	3	10-169/53
319-84-6	alpha-BHC	ND		19.4	17.0	87	19.4	17.4	90	2	10-161/55
319-85-7	beta-BHC	ND		19.4	12.6	65	19.4	13.0	67	3	10-152/57
319-86-8	delta-BHC	ND		19.4	15.9	82	19.4	16.2	83	2	10-155/56
58-89-9	gamma-BHC (Lindane)	ND		19.4	15.2	78	19.4	15.7	81	3	10-148/52
5103-71-9	alpha-Chlordane	ND		19.4	14.4	74	19.4	14.8	76	3	10-150/51
5103-74-2	gamma-Chlordane	ND		19.4	14.3	74	19.4	14.6	75	2	10-148/49
60-57-1	Dieldrin	ND		19.4	14.5	75	19.4	14.7	76	1	10-157/55
72-54-8	4,4'-DDD	1.4		19.4	14.2	66	19.4	14.3	66	1	10-163/52
72-55-9	4,4'-DDE	ND		19.4	12.2	63	19.4	12.5	64	2	10-160/52
50-29-3	4,4'-DDT	4.9		19.4	22.9	93	19.4	23.3	95	2	10-193/55
72-20-8	Endrin	ND		19.4	17.6	91	19.4	18.7	96	6	10-155/51
1031-07-8	Endosulfan sulfate	ND		19.4	13.3	68	19.4	13.4	69	1	10-151/51
7421-93-4	Endrin aldehyde	ND		19.4	17.2	89	19.4	17.2	89	0	10-150/57
959-98-8	Endosulfan-I	ND		19.4	14.7	76	19.4	15.2	78	3	10-151/56
33213-65-9	Endosulfan-II	ND		19.4	13.9	72	19.4	14.1	73	1	10-146/53
76-44-8	Heptachlor	ND		19.4	14.9	77	19.4	15.2	78	2	10-154/56
1024-57-3	Heptachlor epoxide	ND		19.4	15.0	77	19.4	15.4	79	3	10-149/55
72-43-5	Methoxychlor	ND		19.4	19.3	99	19.4	19.1	98	1	10-169/55
53494-70-5	Endrin ketone	ND		19.4	21.9	113	19.4	22.3	115	2	10-162/54
8001-35-2	Toxaphene	ND			ND			ND		nc	50-150/30

CAS No.	Surrogate Recoveries	MS	MSD	JB94209-18	Limits
877-09-8	Tetrachloro-m-xylene	79%	81%	75%	10-129%
877-09-8	Tetrachloro-m-xylene	81%	83%	75%	10-129%
2051-24-3	Decachlorobiphenyl	77%	80%	80%	10-144%
2051-24-3	Decachlorobiphenyl	86%	88%	99%	10-144%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83802-MS	2G113704.D	1	05/11/15	DG	05/10/15	OP83802	G2G3349
OP83802-MSD	2G113705.D	1	05/11/15	DG	05/10/15	OP83802	G2G3349
JB94209-1	2G113706.D	1	05/11/15	DG	05/10/15	OP83802	G2G3349

The QC reported here applies to the following samples: **Method:** SW846 8082A

JB94209-1, JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-9, JB94209-10, JB94209-11, JB94209-12, JB94209-18

CAS No.	Compound	JB94209-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		144	114	79	139	146	105	25	26-175/50
11104-28-2	Aroclor 1221	ND			ND			ND		nc	70-130/30
11141-16-5	Aroclor 1232	ND			ND			ND		nc	70-130/30
53469-21-9	Aroclor 1242	ND			ND			ND		nc	70-130/30
12672-29-6	Aroclor 1248	ND			ND			ND		nc	70-130/16
11097-69-1	Aroclor 1254	ND			ND			ND		nc	70-130/17
11096-82-5	Aroclor 1260	ND		144	97.1	68	139	129	93	28	16-172/47
11100-14-4	Aroclor 1268	ND			ND			ND		nc	-/30
37324-23-5	Aroclor 1262	ND			ND			ND		nc	-/30

CAS No.	Surrogate Recoveries	MS	MSD	JB94209-1	Limits
877-09-8	Tetrachloro-m-xylene	70%	100%	110%	14-139%
877-09-8	Tetrachloro-m-xylene	60%	87%	90%	14-139%
2051-24-3	Decachlorobiphenyl	54%	81%	82%	10-155%
2051-24-3	Decachlorobiphenyl	46%	69%	77%	10-155%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	G1G3674-CC3672	**Injection Date:**	05/11/15
Lab File ID:	1G111463.D	**Injection Time:**	07:52
Instrument ID:	GC1G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	495175968	1.75	111287358	1.56
Upper Limit [a]	990351936	2.25	222574716	2.06
Lower Limit [b]	247587984	1.25	55643679	1.06

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP83755-MB2	474598896	1.75	113430120	1.56
OP83755-BS2	532160696	1.75	124729909	1.56
OP83796-BS1	555907136	1.75	127672691	1.56
OP83792-MB1	528842296	1.74	125908405	1.55
OP83792-BS1	541053568	1.75	124057044	1.55
OP83706-MS	615561624	1.74	151751707	1.55
OP83706-MSD	602079791	1.75	141757304	1.55
ZZZZZZ	499854262	1.74	120801462	1.55
ZZZZZZ	530835784	1.74	118397041	1.55
ZZZZZZ	483581986	1.76	143031809	1.57
JB93978-1	516938704	1.74	119158006	1.55
ZZZZZZ	505238019	1.75	129895192	1.55
ZZZZZZ	542697968	1.74	121991932	1.55
OP83796-MB1	456119880	1.74	115391014	1.56

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	G1G3675-CC3672	**Injection Date:**	05/12/15
Lab File ID:	1G111527.D	**Injection Time:**	14:48
Instrument ID:	GC1G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	816649404	1.77	178792166	1.58
Upper Limit [a]	1633298808	2.27	357584332	2.08
Lower Limit [b]	408324702	1.27	89396083	1.08

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP83759-MB1	1323241392	1.77	285870685	1.58
OP83838-MB1	860249248	1.77	188094376	1.57
OP83838-BS1	892861856	1.77	197322966	1.57
OP83838-BSD	886445216	1.77	192121026	1.58
ZZZZZZ	867980760	1.77	189462513	1.58
ZZZZZZ	900232520	1.76	192669755	1.57
ZZZZZZ	960504660	1.76	159936882	1.57
ZZZZZZ	935325466	1.77	213367778	1.57
ZZZZZZ	890504554	1.76	172759748	1.57
ZZZZZZ	696646400	1.77	165126368	1.58
ZZZZZZ	1024527753	1.76	216470008	1.58
ZZZZZZ	957732088	1.77	203989148	1.58
JB94209-13	992739405	1.76	200976968	1.57
OP83792-MS	939271425	1.77	196077755	1.58
OP83792-MSD	949255962	1.77	199067490	1.57
JB94209-14	951728775	1.76	197834395	1.57
JB94209-15	891201344	1.77	246123380	1.58
JB94209-16	1000642529	1.77	210738470	1.58
JB94209-17	998988520	1.77	214387770	1.58

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	G4G1469-CC1462	**Injection Date:**	05/14/15
Lab File ID:	4G56084.D	**Injection Time:**	07:53
Instrument ID:	GC4G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	170714018	1.97	128496326	1.77
Upper Limit [a]	341428036	2.47	256992652	2.27
Lower Limit [b]	85357009	1.47	64248163	1.27

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP83920-MB1	154722837	1.96	117409845	1.78
OP83920-BS1	182820807	1.97	132536692	1.77
OP83920-MS	186852452	1.97	142833250	1.77
OP83920-MSD	185607041	1.97	141501400	1.77
JB94209-1	182581612	1.97	134005736	1.77
JB94209-2	185020701	1.97	136144881	1.77
JB94209-3	161359484	1.97	122701051	1.77
JB94209-4	183596958	1.97	138089745	1.77
JB94209-5	168179196	1.97	155764358	1.77
JB94209-6	181486758	1.97	135729228	1.77
JB94209-7	193181441	1.97	141284419	1.77
JB94209-8	207350177	1.97	152626725	1.77
JB94209-9	164155210	1.97	127974162	1.77
JB94209-10	193615840	1.97	144365759	1.77
JB94209-11	174703854	1.97	131429376	1.77
JB94209-12	205018462	1.97	150513285	1.77
JB94209-18	202250045	1.97	149225318	1.77
ZZZZZZ	170374149	1.97	127728940	1.78
ZZZZZZ	197022394	1.97	157344324	1.77

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	G4G1469-CC1462	**Injection Date:**	05/14/15
Lab File ID:	4G56106.D	**Injection Time:**	14:59
Instrument ID:	GC4G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	170357466	1.96	125366056	1.77
Upper Limit [a]	340714932	2.46	250732112	2.27
Lower Limit [b]	85178733	1.46	62683028	1.27

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP83929-MB1	156826039	1.96	116066875	1.78
OP83929-BS1	169631921	1.96	124453115	1.77
JB94209-5	159157959	1.97	120518637	1.77
ZZZZZZ	150832481	1.97	111056931	1.77
ZZZZZZ	116443818	1.98	94785537	1.78
ZZZZZZ	173337983	1.97	127405756	1.77
ZZZZZZ	133289747	1.97	96321686	1.77
ZZZZZZ	178570182	1.97	134039745	1.77
ZZZZZZ	175217640	1.97	129171154	1.77
ZZZZZZ	174998985	1.97	130574147	1.77
JB94457-1	173812931	1.97	129692079	1.77
ZZZZZZ	172931230	1.97	123434083	1.77
ZZZZZZ	182544806	1.97	134846580	1.77
ZZZZZZ	175978484	1.97	129969612	1.77
ZZZZZZ	185140182	1.97	136305611	1.77
ZZZZZZ	188136868	1.97	138538098	1.77
ZZZZZZ	175891553	1.97	145101805	1.77
OP83929-MS	172375553	1.97	132701721	1.77
OP83929-MSD	178357430	1.97	136490561	1.77

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	G6G684-CC675	**Injection Date:**	05/14/15
Lab File ID:	6G22903.D	**Injection Time:**	07:57
Instrument ID:	GC6G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	201525828	1.48	151859756	1.38
Upper Limit [a]	403051656	1.98	303719512	1.88
Lower Limit [b]	100762914	0.98	75929878	0.88

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP83694-MS	236380794	1.48	186560336	1.38
OP83694-MSD	215005354	1.48	165673773	1.38
JB93812-1	224163485	1.48	172660007	1.38
ZZZZZZ	228743161	1.48	176017437	1.38
OP83920-MB1	235898542	1.48	177939301	1.38
ZZZZZZ	239092782	1.48	254331524	1.38
ZZZZZZ	243086909	1.48	187664575	1.38
ZZZZZZ	235165267	1.48	181426548	1.38
ZZZZZZ	222386456	1.48	212736745	1.38
ZZZZZZ	217713480	1.48	166850072	1.38
ZZZZZZ	238133169	1.48	177363060	1.38
ZZZZZZ	207001651	1.48	156754586	1.38
ZZZZZZ	230746394	1.48	174839818	1.38
JB94209-3	208653837	1.48	159321119	1.38
ZZZZZZ	220661052	1.48	166958419	1.38
ZZZZZZ	222793624	1.48	167401271	1.38
ZZZZZZ	203620328	1.48	162499472	1.38

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

DDT/Endrin Breakdown Check

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G1G3672-DDT
Lab File ID: 1G111423.D
Instrument ID: GC1G
Injection Date: 05/08/15
Injection Time: 15:26

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	4934234	18803185
4,4'-DDE	6459278	23511459
4,4'-DDT	426424292	1214956517
DDT Breakdown [a]	2.6 %	3.4 %
Endrin aldehyde	2063507	5939507
Endrin ketone	8043835	25167777
Endrin	219208205	685629009
Endrin Breakdown [b]	4.4 %	4.3 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G3672-IC3672	1G111425.D	05/08/15	15:57	00:31	Initial cal 1
G1G3672-IC3672	1G111426.D	05/08/15	16:13	00:47	Initial cal 2
G1G3672-IC3672	1G111427.D	05/08/15	16:29	01:03	Initial cal 5
G1G3672-IC3672	1G111428.D	05/08/15	16:45	01:19	Initial cal 10
G1G3672-ICC3672	1G111429.D	05/08/15	17:01	01:35	Initial cal 25
G1G3672-IC3672	1G111430.D	05/08/15	17:17	01:51	Initial cal 50
G1G3672-IC3672	1G111431.D	05/08/15	17:33	02:07	Initial cal 75
G1G3672-IC3672	1G111432.D	05/08/15	17:49	02:23	Initial cal 100
G1G3672-IC3672	1G111433.D	05/08/15	18:05	02:39	Initial cal 500
G1G3672-IC3672	1G111434.D	05/08/15	18:21	02:55	Initial cal 500
G1G3672-ICV3672	1G111435.D	05/08/15	18:38	03:12	Initial cal verification 25
G1G3672-ICV3672	1G111436.D	05/08/15	18:54	03:28	Initial cal verification 25
G1G3672-ICV3672	1G111437.D	05/08/15	19:10	03:44	Initial cal verification 500
G1G3672-ICV3672	1G111438.D	05/08/15	19:26	04:00	Initial cal verification 500

DDT/Endrin Breakdown Check

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample:	G1G3674-DDT	**Injection Date:**	05/11/15
Lab File ID:	1G111462.D	**Injection Time:**	07:36
Instrument ID:	GC1G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	2221539	6889081
4,4'-DDE	1591001	5372647
4,4'-DDT	234823467	520461514
DDT Breakdown [a]	1.6 %	2.3 %
Endrin aldehyde	2572851	6274056
Endrin ketone	6301563	17146531
Endrin	113129651	331240870
Endrin Breakdown [b]	7.3 %	6.6 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G3674-CC3672	1G111463.D	05/11/15	07:52	00:15	Continuing cal 25
OP83755-MB2	1G111465.D	05/11/15	08:51	01:15	Method Blank
OP83755-BS2	1G111466.D	05/11/15	09:06	01:30	Blank Spike
OP83796-BS1	1G111468.D	05/11/15	09:37	02:01	Blank Spike
OP83792-MB1	1G111469.D	05/11/15	09:53	02:16	Method Blank
OP83792-BS1	1G111470.D	05/11/15	10:08	02:31	Blank Spike
OP83706-MS	1G111478.D	05/11/15	10:23	02:46	Matrix Spike
OP83706-MSD	1G111479.D	05/11/15	10:40	03:03	Matrix Spike Duplicate
ZZZZZZ	1G111471.D	05/11/15	10:55	03:18	(unrelated sample)
ZZZZZZ	1G111472.D	05/11/15	11:10	03:33	(unrelated sample)
ZZZZZZ	1G111473.D	05/11/15	11:26	03:49	(unrelated sample)
JB93978-1	1G111474.D	05/11/15	11:41	04:04	(used for QC only; not part of job JB94209)
ZZZZZZ	1G111475.D	05/11/15	11:57	04:20	(unrelated sample)
ZZZZZZ	1G111476.D	05/11/15	12:12	04:35	(unrelated sample)
OP83796-MB1	1G111481.D	05/11/15	14:00	06:24	Method Blank

DDT/Endrin Breakdown Check

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G1G3675-DDT
Lab File ID: 1G111526.D
Instrument ID: GC1G
Injection Date: 05/12/15
Injection Time: 14:33

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	4043661	13975816
4,4'-DDE	3449121	11893723
4,4'-DDT	361342781	1016367747
DDT Breakdown [a]	2 %	2.5 %
Endrin aldehyde	1808254	5941738
Endrin ketone	7076698	21194234
Endrin	183765335	582794118
Endrin Breakdown [b]	4.6 %	4.4 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G3675-CC3672	1G111527.D	05/12/15	14:48	00:15	Continuing cal 25
OP83759-MB1	1G111529.D	05/12/15	15:23	00:50	Method Blank
OP83838-MB1	1G111530.D	05/12/15	15:38	01:05	Method Blank
OP83838-BS1	1G111531.D	05/12/15	15:53	01:21	Blank Spike
OP83838-BSD	1G111532.D	05/12/15	16:10	01:37	Blank Spike Duplicate
ZZZZZZ	1G111533.D	05/12/15	16:25	01:52	(unrelated sample)
ZZZZZZ	1G111534.D	05/12/15	16:40	02:08	(unrelated sample)
ZZZZZZ	1G111535.D	05/12/15	16:56	02:23	(unrelated sample)
ZZZZZZ	1G111536.D	05/12/15	17:11	02:38	(unrelated sample)
ZZZZZZ	1G111537.D	05/12/15	17:26	02:54	(unrelated sample)
ZZZZZZ	1G111538.D	05/12/15	17:42	03:09	(unrelated sample)
ZZZZZZ	1G111539.D	05/12/15	17:58	03:25	(unrelated sample)
ZZZZZZ	1G111540.D	05/12/15	18:14	03:41	(unrelated sample)
JB94209-13	1G111541.D	05/12/15	18:30	03:57	TW-1
OP83792-MS	1G111542.D	05/12/15	18:46	04:14	Matrix Spike
OP83792-MSD	1G111543.D	05/12/15	19:02	04:29	Matrix Spike Duplicate
JB94209-14	1G111544.D	05/12/15	19:17	04:45	TW-2
JB94209-15	1G111545.D	05/12/15	19:33	05:00	TW-3
JB94209-16	1G111546.D	05/12/15	19:49	05:16	TW2-DUP
JB94209-17	1G111547.D	05/12/15	20:05	05:32	FB
G1G3675-CC3672	1G111549.D	05/12/15	20:37	06:04	Continuing cal 50
OP83818-MB1	1G111560.D	05/12/15	21:09	06:36	Method Blank
OP83818-BS1	1G111561.D	05/12/15	21:25	06:52	Blank Spike
OP83838-LB18	1G111551.D	05/12/15	21:41	07:09	Leachate Blank

DDT/Endrin Breakdown Check

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G1G3675-DDT
Lab File ID: 1G111526.D
Instrument ID: GC1G
Injection Date: 05/12/15
Injection Time: 14:33

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	1G111552.D	05/12/15	21:58	07:25	(unrelated sample)
ZZZZZZ	1G111555.D	05/12/15	22:46	08:13	(unrelated sample)
ZZZZZZ	1G111556.D	05/12/15	23:02	08:29	(unrelated sample)
ZZZZZZ	1G111558.D	05/12/15	23:35	09:02	(unrelated sample)
ZZZZZZ	1G111559.D	05/12/15	23:51	09:18	(unrelated sample)
ZZZZZZ	1G111562.D	05/13/15	00:07	09:34	(unrelated sample)
JB94016-20	1G111563.D	05/13/15	00:23	09:50	(used for QC only; not part of job JB94209)
ZZZZZZ	1G111564.D	05/13/15	00:39	10:06	(unrelated sample)
ZZZZZZ	1G111565.D	05/13/15	00:56	10:23	(unrelated sample)
ZZZZZZ	1G111566.D	05/13/15	01:12	10:39	(unrelated sample)
ZZZZZZ	1G111567.D	05/13/15	01:28	10:55	(unrelated sample)
ZZZZZZ	1G111568.D	05/13/15	01:44	11:11	(unrelated sample)
ZZZZZZ	1G111569.D	05/13/15	02:00	11:28	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample:	G4G1462-DDT	**Injection Date:**	05/06/15
Lab File ID:	4G55789.D	**Injection Time:**	11:11
Instrument ID:	GC4G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	1493384	2165219
4,4'-DDE	1504076	2245958
4,4'-DDT	217158895	229806385
DDT Breakdown [a]	1.4 %	1.9 %
Endrin aldehyde	1360087	3130179
Endrin ketone	4366230	4976234
Endrin	111716555	141903864
Endrin Breakdown [b]	4.9 %	5.4 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G4G1462-IC1462	4G55791.D	05/06/15	12:16	01:05	Initial cal 1
G4G1462-IC1462	4G55792.D	05/06/15	12:31	01:20	Initial cal 2
G4G1462-IC1462	4G55793.D	05/06/15	12:45	01:34	Initial cal 5
G4G1462-IC1462	4G55794.D	05/06/15	13:00	01:49	Initial cal 10
G4G1462-ICC1462	4G55795.D	05/06/15	13:14	02:03	Initial cal 25
G4G1462-IC1462	4G55796.D	05/06/15	13:29	02:18	Initial cal 50
G4G1462-IC1462	4G55797.D	05/06/15	13:43	02:32	Initial cal 75
G4G1462-IC1462	4G55798.D	05/06/15	13:58	02:47	Initial cal 100
G4G1462-IC1462	4G55799.D	05/06/15	14:12	03:01	Initial cal 500
G4G1462-IC1462	4G55800.D	05/06/15	14:27	03:16	Initial cal 500
G4G1462-ICV1462	4G55801.D	05/06/15	14:41	03:30	Initial cal verification 25
G4G1462-ICV1462	4G55805.D	05/06/15	16:46	05:35	Initial cal verification 25
G4G1462-ICV1462	4G55806.D	05/06/15	17:00	05:49	Initial cal verification 500
G4G1462-ICV1462	4G55807.D	05/06/15	17:15	06:04	Initial cal verification 500

DDT/Endrin Breakdown Check

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample:	G4G1469-DDT	**Injection Date:**	05/14/15
Lab File ID:	4G56083.D	**Injection Time:**	07:38
Instrument ID:	GC4G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	2900317	3566801
4,4'-DDE	1064071	1179283
4,4'-DDT	224310625	259761387
DDT Breakdown [a]	1.7 %	1.8 %
Endrin aldehyde	1446819	1697211
Endrin ketone	4325994	5709995
Endrin	115927259	147153461
Endrin Breakdown [b]	4.7 %	4.8 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G4G1469-CC1462	4G56084.D	05/14/15	07:53	00:15	Continuing cal 25
OP83920-MB1	4G56086.D	05/14/15	09:33	01:55	Method Blank
OP83920-BS1	4G56087.D	05/14/15	09:48	02:10	Blank Spike
OP83920-MS	4G56088.D	05/14/15	10:02	02:24	Matrix Spike
OP83920-MSD	4G56089.D	05/14/15	10:17	02:39	Matrix Spike Duplicate
JB94209-1	4G56090.D	05/14/15	10:31	02:53	SB1-1
JB94209-2	4G56091.D	05/14/15	10:46	03:08	SB1-2
JB94209-3	4G56092.D	05/14/15	11:00	03:22	SB2-1
JB94209-4	4G56093.D	05/14/15	11:15	03:37	SB2-2
JB94209-5	4G56094.D	05/14/15	11:29	03:51	SB3-1
JB94209-6	4G56095.D	05/14/15	11:44	04:06	SB3-2
JB94209-7	4G56096.D	05/14/15	11:58	04:20	SB4-1
JB94209-8	4G56097.D	05/14/15	12:13	04:35	SB4-2
JB94209-9	4G56098.D	05/14/15	12:27	04:49	SB5-1
JB94209-10	4G56099.D	05/14/15	12:42	05:04	SB5-2
JB94209-11	4G56100.D	05/14/15	12:56	05:18	SB6-1
JB94209-12	4G56101.D	05/14/15	13:11	05:33	SB6-2
JB94209-18	4G56102.D	05/14/15	13:25	05:47	SB5-2 DUP
ZZZZZZ	4G56103.D	05/14/15	13:40	06:02	(unrelated sample)
ZZZZZZ	4G56104.D	05/14/15	13:54	06:16	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample:	G4G1469-DDT	**Injection Date:**	05/14/15
Lab File ID:	4G56105.D	**Injection Time:**	14:39
Instrument ID:	GC4G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	4014987	5621005
4,4'-DDE	899776	1347551
4,4'-DDT	235220414	273940259
DDT Breakdown [a]	2 %	2.5 %
Endrin aldehyde	1563490	1884417
Endrin ketone	5016296	6550131
Endrin	122738348	159107603
Endrin Breakdown [b]	5.1 %	5 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G4G1469-CC1462	4G56106.D	05/14/15	14:59	00:20	Continuing cal 25
OP83929-MB1	4G56108.D	05/14/15	15:38	00:59	Method Blank
OP83929-BS1	4G56109.D	05/14/15	15:58	01:19	Blank Spike
JB94209-5	4G56110.D	05/14/15	16:12	01:33	SB3-1
ZZZZZZ	4G56111.D	05/14/15	16:27	01:48	(unrelated sample)
ZZZZZZ	4G56112.D	05/14/15	16:41	02:02	(unrelated sample)
ZZZZZZ	4G56113.D	05/14/15	16:56	02:17	(unrelated sample)
ZZZZZZ	4G56114.D	05/14/15	17:10	02:31	(unrelated sample)
ZZZZZZ	4G56115.D	05/14/15	17:25	02:46	(unrelated sample)
ZZZZZZ	4G56116.D	05/14/15	17:39	03:00	(unrelated sample)
ZZZZZZ	4G56117.D	05/14/15	17:54	03:15	(unrelated sample)
JB94457-1	4G56118.D	05/14/15	18:08	03:29	(used for QC only; not part of job JB94209)
ZZZZZZ	4G56119.D	05/14/15	18:23	03:44	(unrelated sample)
ZZZZZZ	4G56120.D	05/14/15	18:37	03:58	(unrelated sample)
ZZZZZZ	4G56121.D	05/14/15	18:52	04:13	(unrelated sample)
ZZZZZZ	4G56122.D	05/14/15	19:06	04:27	(unrelated sample)
ZZZZZZ	4G56123.D	05/14/15	19:21	04:42	(unrelated sample)
ZZZZZZ	4G56124.D	05/14/15	19:35	04:56	(unrelated sample)
OP83929-MS	4G56125.D	05/14/15	19:50	05:11	Matrix Spike
OP83929-MSD	4G56126.D	05/14/15	20:04	05:25	Matrix Spike Duplicate

DDT/Endrin Breakdown Check

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample:	G6G675-DDT	**Injection Date:**	05/01/15
Lab File ID:	6G22457.D	**Injection Time:**	15:55
Instrument ID:	GC6G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	4032787	4229859
4,4'-DDE	865785	1582289
4,4'-DDT	234827152	275651329
DDT Breakdown [a]	2 %	2.1 %
Endrin aldehyde	1963039	1968391
Endrin ketone	8248691	9654674
Endrin	152463664	167979087
Endrin Breakdown [b]	6.3 %	6.5 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G6G675-IC675	6G22459.D	05/01/15	16:29	00:34	Initial cal 1
G6G675-IC675	6G22460.D	05/01/15	16:46	00:51	Initial cal 2
G6G675-IC675	6G22461.D	05/01/15	17:02	01:07	Initial cal 5
G6G675-IC675	6G22462.D	05/01/15	17:19	01:24	Initial cal 10
G6G675-ICC675	6G22463.D	05/01/15	17:36	01:41	Initial cal 25
G6G675-IC675	6G22464.D	05/01/15	17:53	01:58	Initial cal 50
G6G675-IC675	6G22465.D	05/01/15	18:09	02:14	Initial cal 75
G6G675-IC675	6G22466.D	05/01/15	18:26	02:31	Initial cal 100
G6G675-IC675	6G22467.D	05/01/15	18:43	02:48	Initial cal 500
G6G675-IC675	6G22468.D	05/01/15	19:00	03:05	Initial cal 500
G6G675-ICV675	6G22469.D	05/01/15	19:16	03:21	Initial cal verification 25
G6G675-ICV675	6G22470.D	05/01/15	19:33	03:38	Initial cal verification 25
G6G675-ICV675	6G22471.D	05/01/15	19:50	03:55	Initial cal verification 500
G6G675-ICV675	6G22472.D	05/01/15	20:07	04:12	Initial cal verification 500

DDT/Endrin Breakdown Check

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample:	G6G684-DDT	**Injection Date:**	05/14/15
Lab File ID:	6G22902.D	**Injection Time:**	07:40
Instrument ID:	GC6G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	3204309	3948039
4,4'-DDE	1495303	1970122
4,4'-DDT	264084345	369604403
DDT Breakdown [a]	1.7 %	1.6 %
Endrin aldehyde	1772348	1879036
Endrin ketone	7811832	8970491
Endrin	151872312	198301961
Endrin Breakdown [b]	5.9 %	5.2 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G6G684-CC675	6G22903.D	05/14/15	07:57	00:17	Continuing cal 25
OP83694-MS	6G22905.D	05/14/15	08:37	00:57	Matrix Spike
OP83694-MSD	6G22906.D	05/14/15	08:54	01:14	Matrix Spike Duplicate
JB93812-1	6G22907.D	05/14/15	09:10	01:30	(used for QC only; not part of job JB94209)
ZZZZZZ	6G22908.D	05/14/15	09:27	01:47	(unrelated sample)
OP83920-MB1	6G22917.D	05/14/15	09:44	02:04	Method Blank
ZZZZZZ	6G22909.D	05/14/15	10:01	02:21	(unrelated sample)
ZZZZZZ	6G22912.D	05/14/15	10:51	03:11	(unrelated sample)
ZZZZZZ	6G22913.D	05/14/15	11:07	03:27	(unrelated sample)
ZZZZZZ	6G22914.D	05/14/15	11:24	03:44	(unrelated sample)
ZZZZZZ	6G22915.D	05/14/15	11:41	04:01	(unrelated sample)
ZZZZZZ	6G22916.D	05/14/15	11:58	04:18	(unrelated sample)
ZZZZZZ	6G22918.D	05/14/15	12:14	04:34	(unrelated sample)
ZZZZZZ	6G22919.D	05/14/15	12:31	04:51	(unrelated sample)
JB94209-3	6G22920.D	05/14/15	12:48	05:08	SB2-1
ZZZZZZ	6G22921.D	05/14/15	13:04	05:24	(unrelated sample)
ZZZZZZ	6G22922.D	05/14/15	13:21	05:41	(unrelated sample)
ZZZZZZ	6G22923.D	05/14/15	13:38	05:58	(unrelated sample)

Semivolatile Surrogate Recovery Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Method: SW846 8081B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JB94209-13	1G111541.D	84	91	53	52
JB94209-14	1G111544.D	84	92	65	63
JB94209-15	1G111545.D	54	91	31	44
JB94209-16	1G111546.D	67	75	46	48
JB94209-17	1G111547.D	79	88	33	33
OP83792-BS1	1G111470.D	81	97	76	73
OP83792-MB1	1G111469.D	85	105	83	88
OP83792-MS	1G111542.D	92	99	66	64
OP83792-MSD	1G111543.D	93	101	66	64

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	26-132%
S2 = Decachlorobiphenyl	10-118%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

Semivolatile Surrogate Recovery Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Method: SW846 8081B **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JB94209-1	4G56090.D	99	101	82	74
JB94209-2	4G56091.D	92	94	79	70
JB94209-3	4G56092.D	97	94	683* [c]	1137* [c]
JB94209-3	6G22920.D	0* [d]	0* [d]	0* [d]	0* [d]
JB94209-4	4G56093.D	78	80	82	55
JB94209-5	4G56110.D	79	64	316*	367*
JB94209-5	4G56094.D	63	60	336* [c]	479* [c]
JB94209-6	4G56095.D	81	83	80	62
JB94209-7	4G56096.D	75	73	102	97
JB94209-8	4G56097.D	76	78	64	56
JB94209-9	4G56098.D	70	69	300* [c]	469* [c]
JB94209-10	4G56099.D	69	71	70	51
JB94209-11	4G56100.D	68	61	497* [c]	507* [c]
JB94209-12	4G56101.D	71	70	66	65
JB94209-18	4G56102.D	75	75	80	99
OP83920-BS1	4G56087.D	83	83	69	59
OP83920-MB1	4G56086.D	86	85	78	77
OP83920-MB1	6G22917.D	90	92	74	98
OP83920-MS	4G56088.D	79	81	77	86
OP83920-MSD	4G56089.D	81	83	80	88

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	10-129%
S2 = Decachlorobiphenyl	10-144%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2
(c) Outside control limits due to matrix interference.
(d) Outside control limits due to dilution.

Semivolatile Surrogate Recovery Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Method: SW846 8082A **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JB94209-13	2G113838.D	108	97	78	68
JB94209-14	2G113815.D	113	95	88	74
JB94209-15	2G113816.D	81	89	53	47
JB94209-16	2G113817.D	91	78	66	57
JB94209-17	2G113818.D	114	94	48	41
OP83793-BS1	2G113836.D	102	93	106	92
OP83793-BSD	2G113837.D	106	93	107	94
OP83793-MB1	2G113835.D	119	101	110	93

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	20-130%
S2 = Decachlorobiphenyl	10-122%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

Semivolatile Surrogate Recovery Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Method: SW846 8082A **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JB94209-1	2G113706.D	110	90	82	77
JB94209-2	2G113707.D	126	102	98	86
JB94209-3	2G113708.D	75	58	198* [c]	741* [c]
JB94209-4	2G113709.D	102	80	63	64
JB94209-5	2G113710.D	59	42	112	350* [c]
JB94209-6	2G113715.D	113	93	84	68
JB94209-7	2G113716.D	87	77	94	128
JB94209-8	2G113717.D	118	97	82	79
JB94209-9	2G113718.D	69	61	135	692* [c]
JB94209-10	2G113719.D	66	58	44	89
JB94209-11	2G113720.D	62	48	106	914* [c]
JB94209-12	2G113721.D	85	68	42	51
JB94209-18	2G113726.D	68	62	100	161* [c]
OP83802-BS1	2G113692.D	112	97	91	78
OP83802-MB1	2G113691.D	130	110	103	90
OP83802-MS	2G113704.D	70	60	54	46
OP83802-MSD	2G113705.D	100	87	81	69

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	14-139%
S2 = Decachlorobiphenyl	10-155%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2
(c) Outside control limits due to matrix interference.

GC Surrogate Retention Time Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	G1G3674-CC3672	**Injection Date:**	05/11/15
Lab File ID:	1G111463.D	**Injection Time:**	07:52
Instrument ID:	GC1G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	2.27	2.70	9.58	10.62

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP83755-MB2	1G111465.D	05/11/15	08:51	2.29	2.70	9.59	10.62
OP83755-BS2	1G111466.D	05/11/15	09:06	2.27	2.70	9.58	10.62
OP83796-BS1	1G111468.D	05/11/15	09:37	2.28	2.70	9.58	10.62
OP83792-MB1	1G111469.D	05/11/15	09:53	2.27	2.69	9.58	10.62
OP83792-BS1	1G111470.D	05/11/15	10:08	2.27	2.70	9.58	10.62
OP83706-MS	1G111478.D	05/11/15	10:23	2.27	2.70	9.58	10.62
OP83706-MSD	1G111479.D	05/11/15	10:40	2.28	2.70	9.58	10.62
ZZZZZZ	1G111471.D	05/11/15	10:55	2.27	2.70	9.58	10.62
ZZZZZZ	1G111472.D	05/11/15	11:10	2.27	2.70	9.58	10.62
ZZZZZZ	1G111473.D	05/11/15	11:26	2.28	2.71	9.59	10.63
JB93978-1	1G111474.D	05/11/15	11:41	2.27	2.70	9.58	10.62
ZZZZZZ	1G111475.D	05/11/15	11:57	2.31	2.70	9.57	10.62
ZZZZZZ	1G111476.D	05/11/15	12:12	2.27	2.70	9.58	10.62
OP83796-MB1	1G111481.D	05/11/15	14:00	2.29	2.70	9.60	10.63

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	G1G3675-CC3672	**Injection Date:**	05/12/15
Lab File ID:	1G111527.D	**Injection Time:**	14:48
Instrument ID:	GC1G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	2.28	2.71	9.58	10.62

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP83759-MB1	1G111529.D	05/12/15	15:23	2.29	2.71	9.58	10.62
OP83838-MB1	1G111530.D	05/12/15	15:38	2.28	2.71	9.58	10.62
OP83838-BS1	1G111531.D	05/12/15	15:53	2.28	2.71	9.58	10.62
OP83838-BSD	1G111532.D	05/12/15	16:10	2.28	2.71	9.58	10.62
ZZZZZZ	1G111533.D	05/12/15	16:25	2.28	2.71	9.58	10.62
ZZZZZZ	1G111534.D	05/12/15	16:40	2.28	2.70	9.58	10.62
ZZZZZZ	1G111535.D	05/12/15	16:56	2.28	2.71	9.58	10.62
ZZZZZZ	1G111536.D	05/12/15	17:11	2.29	2.71	9.58	10.62
ZZZZZZ	1G111537.D	05/12/15	17:26	2.28	2.71	9.57	10.62
ZZZZZZ	1G111538.D	05/12/15	17:42	2.29	2.71	9.58	10.61
ZZZZZZ	1G111539.D	05/12/15	17:58	2.29	2.71	9.58	10.62
ZZZZZZ	1G111540.D	05/12/15	18:14	2.29	2.71	9.58	10.62
JB94209-13	1G111541.D	05/12/15	18:30	2.28	2.70	9.58	10.62
OP83792-MS	1G111542.D	05/12/15	18:46	2.29	2.71	9.58	10.62
OP83792-MSD	1G111543.D	05/12/15	19:02	2.29	2.71	9.58	10.62
JB94209-14	1G111544.D	05/12/15	19:17	2.29	2.70	9.58	10.62
JB94209-15	1G111545.D	05/12/15	19:33	2.29	2.71	9.58	10.62
JB94209-16	1G111546.D	05/12/15	19:49	2.29	2.71	9.58	10.62
JB94209-17	1G111547.D	05/12/15	20:05	2.29	2.71	9.58	10.62

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	G4G1469-CC1462	**Injection Date:**	05/14/15
Lab File ID:	4G56084.D	**Injection Time:**	07:53
Instrument ID:	GC4G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	2.21	2.62	9.11	10.79

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP83920-MB1	4G56086.D	05/14/15	09:33	2.22	2.62	9.13	10.80
OP83920-BS1	4G56087.D	05/14/15	09:48	2.21	2.62	9.11	10.79
OP83920-MS	4G56088.D	05/14/15	10:02	2.21	2.62	9.11	10.79
OP83920-MSD	4G56089.D	05/14/15	10:17	2.22	2.62	9.11	10.79
JB94209-1	4G56090.D	05/14/15	10:31	2.21	2.62	9.11	10.79
JB94209-2	4G56091.D	05/14/15	10:46	2.21	2.62	9.11	10.79
JB94209-3	4G56092.D	05/14/15	11:00	2.22	2.62	9.14	10.78
JB94209-4	4G56093.D	05/14/15	11:15	2.21	2.62	9.11	10.79
JB94209-5	4G56094.D	05/14/15	11:29	2.22	2.62	9.14	10.79
JB94209-6	4G56095.D	05/14/15	11:44	2.21	2.62	9.11	10.79
JB94209-7	4G56096.D	05/14/15	11:58	2.21	2.62	9.11	10.79
JB94209-8	4G56097.D	05/14/15	12:13	2.22	2.62	9.11	10.79
JB94209-9	4G56098.D	05/14/15	12:27	2.22	2.62	9.14	10.78
JB94209-10	4G56099.D	05/14/15	12:42	2.21	2.62	9.11	10.79
JB94209-11	4G56100.D	05/14/15	12:56	2.22	2.62	9.14	10.79
JB94209-12	4G56101.D	05/14/15	13:11	2.22	2.62	9.11	10.79
JB94209-18	4G56102.D	05/14/15	13:25	2.22	2.62	9.11	10.79
ZZZZZZ	4G56103.D	05/14/15	13:40	2.22	2.63	9.11	10.79
ZZZZZZ	4G56104.D	05/14/15	13:54	2.22	2.62	9.11	10.79

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	G4G1469-CC1462	**Injection Date:**	05/14/15
Lab File ID:	4G56106.D	**Injection Time:**	14:59
Instrument ID:	GC4G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	2.22	2.61	9.12	10.79

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP83929-MB1	4G56108.D	05/14/15	15:38	2.22	2.62	9.12	10.79
OP83929-BS1	4G56109.D	05/14/15	15:58	2.22	2.61	9.12	10.79
JB94209-5	4G56110.D	05/14/15	16:12	2.22	2.62	9.14	10.78
ZZZZZZ	4G56111.D	05/14/15	16:27	2.21	2.62	9.14	10.78
ZZZZZZ	4G56112.D	05/14/15	16:41	2.22	2.63	9.11	10.79
ZZZZZZ	4G56113.D	05/14/15	16:56	2.22	2.62	9.11	10.78
ZZZZZZ	4G56114.D	05/14/15	17:10	2.21	2.62	9.11	10.79
ZZZZZZ	4G56115.D	05/14/15	17:25	2.21	2.62	9.11	10.79
ZZZZZZ	4G56116.D	05/14/15	17:39	2.21	2.62	9.11	10.79
ZZZZZZ	4G56117.D	05/14/15	17:54	2.21	2.62	9.11	10.79
JB94457-1	4G56118.D	05/14/15	18:08	2.21	2.62	9.10	10.79
ZZZZZZ	4G56119.D	05/14/15	18:23	2.22	2.62	9.11	10.79
ZZZZZZ	4G56120.D	05/14/15	18:37	2.22	2.62	9.11	10.79
ZZZZZZ	4G56121.D	05/14/15	18:52	2.21	2.62	9.10	10.79
ZZZZZZ	4G56122.D	05/14/15	19:06	2.22	2.62	9.11	10.79
ZZZZZZ	4G56123.D	05/14/15	19:21	2.21	2.62	9.11	10.79
ZZZZZZ	4G56124.D	05/14/15	19:35	2.21	2.62	9.11	10.79
OP83929-MS	4G56125.D	05/14/15	19:50	2.22	2.62	9.11	10.79
OP83929-MSD	4G56126.D	05/14/15	20:04	2.21	2.62	9.11	10.79

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	G6G684-CC675	**Injection Date:**	05/14/15
Lab File ID:	6G22903.D	**Injection Time:**	07:57
Instrument ID:	GC6G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	2.06	2.36	10.16	11.61

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP83694-MS	6G22905.D	05/14/15	08:37	2.07	2.36	10.17	11.61
OP83694-MSD	6G22906.D	05/14/15	08:54	2.06	2.36	10.17	11.61
JB93812-1	6G22907.D	05/14/15	09:10	2.06	2.36	10.16	11.61
ZZZZZZ	6G22908.D	05/14/15	09:27	2.06	2.36	10.16	11.61
OP83920-MB1	6G22917.D	05/14/15	09:44	2.06	2.36	10.16	11.61
ZZZZZZ	6G22909.D	05/14/15	10:01	2.06	2.36	10.16	11.61
ZZZZZZ	6G22912.D	05/14/15	10:51	2.06	2.36	10.16	11.61
ZZZZZZ	6G22913.D	05/14/15	11:07	2.06	2.37	10.16	11.61
ZZZZZZ	6G22914.D	05/14/15	11:24	2.06	2.37	10.16	11.61
ZZZZZZ	6G22915.D	05/14/15	11:41	2.06	2.36	10.16	11.61
ZZZZZZ	6G22916.D	05/14/15	11:58	2.06	2.36	10.16	11.61
ZZZZZZ	6G22918.D	05/14/15	12:14	2.06	2.37	10.16	11.59
ZZZZZZ	6G22919.D	05/14/15	12:31	2.06	2.37	10.16	11.61
JB94209-3	6G22920.D	05/14/15	12:48	0.00	0.00	0.00	0.00
ZZZZZZ	6G22921.D	05/14/15	13:04	2.06	2.36	10.16	11.61
ZZZZZZ	6G22922.D	05/14/15	13:21	2.06	2.37	10.16	11.61
ZZZZZZ	6G22923.D	05/14/15	13:38	2.06	2.37	10.16	11.61

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	G2G3349-CC3335	**Injection Date:**	05/11/15
Lab File ID:	2G113686.D	**Injection Time:**	09:31
Instrument ID:	GC2G	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	3.12	3.71	10.60	12.21

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP83785-MB1	2G113688.D	05/11/15	10:05	3.12	3.71	10.60	12.21
OP83785-BS1	2G113689.D	05/11/15	10:22	3.12	3.71	10.60	12.21
OP83785-BSD	2G113690.D	05/11/15	10:39	3.12	3.71	10.60	12.21
OP83802-MB1	2G113691.D	05/11/15	10:56	3.12	3.71	10.60	12.21
OP83802-BS1	2G113692.D	05/11/15	11:13	3.12	3.71	10.60	12.21
ZZZZZZ	2G113693.D	05/11/15	11:29	3.12	3.71	10.60	12.21
ZZZZZZ	2G113694.D	05/11/15	11:46	3.12	3.71	10.60	12.21
ZZZZZZ	2G113696.D	05/11/15	12:20	3.12	3.71	10.60	12.21

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	G2G3349-CC3335	**Injection Date:**	05/11/15
Lab File ID:	2G113702.D	**Injection Time:**	15:16
Instrument ID:	GC2G	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	3.11	3.70	10.59	12.20

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP83802-MS	2G113704.D	05/11/15	15:52	3.13	3.72	10.61	12.21
OP83802-MSD	2G113705.D	05/11/15	16:18	3.14	3.72	10.62	12.22
JB94209-1	2G113706.D	05/11/15	16:35	3.12	3.71	10.60	12.21
JB94209-2	2G113707.D	05/11/15	16:52	3.12	3.71	10.60	12.21
JB94209-3	2G113708.D	05/11/15	17:08	3.12	3.71	10.61	12.24
JB94209-4	2G113709.D	05/11/15	17:25	3.12	3.71	10.60	12.21
JB94209-5	2G113710.D	05/11/15	17:42	3.12	3.71	10.60	12.23

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	G2G3349-CC3335	**Injection Date:**	05/11/15
Lab File ID:	2G113713.D	**Injection Time:**	18:33
Instrument ID:	GC2G	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	3.12	3.71	10.60	12.21

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
JB94209-6	2G113715.D	05/11/15	19:07	3.12	3.71	10.60	12.21
JB94209-7	2G113716.D	05/11/15	19:24	3.12	3.71	10.60	12.21
JB94209-8	2G113717.D	05/11/15	19:40	3.12	3.71	10.60	12.21
JB94209-9	2G113718.D	05/11/15	19:57	3.13	3.71	10.61	12.24
JB94209-10	2G113719.D	05/11/15	20:14	3.12	3.71	10.60	12.21
JB94209-11	2G113720.D	05/11/15	20:31	3.12	3.71	10.61	12.24
JB94209-12	2G113721.D	05/11/15	20:48	3.12	3.71	10.60	12.21

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	G2G3349-CC3335	**Injection Date:**	05/11/15
Lab File ID:	2G113724.D	**Injection Time:**	21:39
Instrument ID:	GC2G	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	3.13	3.71	10.60	12.21

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
JB94209-18	2G113726.D	05/11/15	22:13	3.13	3.71	10.60	12.22
ZZZZZZ	2G113727.D	05/11/15	22:30	3.13	3.71	10.60	12.21
ZZZZZZ	2G113728.D	05/11/15	22:46	3.12	3.71	10.60	12.21
ZZZZZZ	2G113729.D	05/11/15	23:03	3.12	3.71	10.60	12.21
ZZZZZZ	2G113730.D	05/11/15	23:20	3.12	3.71	10.61	12.24
ZZZZZZ	2G113731.D	05/11/15	23:37	3.12	3.71	10.60	12.21
ZZZZZZ	2G113732.D	05/11/15	23:54	3.12	3.71	10.60	12.21

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	G2G3350-CC3335	**Injection Date:**	05/13/15
Lab File ID:	2G113813.D	**Injection Time:**	02:04
Instrument ID:	GC2G	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	3.13	3.71	10.60	12.21

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
JB94209-14	2G113815.D	05/13/15	02:37	3.13	3.71	10.60	12.21
JB94209-15	2G113816.D	05/13/15	02:54	3.13	3.71	10.60	12.21
JB94209-16	2G113817.D	05/13/15	03:11	3.13	3.71	10.60	12.21
JB94209-17	2G113818.D	05/13/15	03:28	3.13	3.71	10.60	12.21

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	G2G3351-CC3335	**Injection Date:**	05/13/15
Lab File ID:	2G113833.D	**Injection Time:**	12:58
Instrument ID:	GC2G	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	3.12	3.71	10.60	12.21

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP83793-MB1	2G113835.D	05/13/15	13:32	3.12	3.71	10.60	12.21
OP83793-BS1	2G113836.D	05/13/15	13:49	3.12	3.71	10.60	12.21
OP83793-BSD	2G113837.D	05/13/15	14:05	3.12	3.71	10.60	12.21
JB94209-13	2G113838.D	05/13/15	14:22	3.12	3.71	10.60	12.21

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

Initial Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G1G3672-ICC3672
Lab FileID: 1G111429.D

Response Factor Report GC1G

Method : C:\MSDCHEM\1\METHODS\1PST3672.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 11 08:10:50 2015
Response via : Initial Calibration

Calibration Files
2 =1G111426.D 5 =1G111427.D 10 =1G111428.D 25 =1G111429.D
50 =1G111430.D 100 =1G111432.D 1 =1G111425.D 75 =1G111431.D

Compound	2	5	10	25	50	100	1	75	Avg	%RSD
1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	1.017	1.065	1.100	0.987	0.990	1.012	1.227	1.009	1.051	7.70
3) alpha-BHC	1.062	1.055	1.166	1.286	1.387	1.534	1.098	1.487	1.259	15.31
4) gamma-BHC	1.077	1.078	1.159	1.259	1.330	1.455	1.089	1.418	1.233	12.55
5) Heptachlor	1.182	1.146	1.204	1.268	1.317	1.415	1.218	1.385	1.267	7.67
6) beta-BHC	0.566	0.656	0.574	0.578	0.573	0.601	0.592	0.594	0.592	4.81
7) delta-BHC	0.891	0.891	0.961	1.077	1.164	1.306	0.967	1.260	1.065	15.35
8) Aldrin	1.047	1.022	1.086	1.155	1.213	1.310	1.052	1.285	1.146	9.81
9) Heptachlor E	1.043	1.007	1.052	1.108	1.138	1.219	1.062	1.197	1.103	6.91
10) gamma-Chlord	1.007	1.028	1.077	1.116	1.147	1.237	0.971	1.210	1.099	8.73
11) alpha-Chlord	1.089	1.129	1.076	1.118	1.139	1.214	1.157	1.190	1.139	4.13
12) Endosulfan I	0.995	0.982	1.011	1.056	1.082	1.155	1.029	1.132	1.055	6.00
13) 4,4'-DDE	0.933	0.929	1.005	1.073	1.139	1.226	1.006	1.197	1.064	10.77
14) Dieldrin	1.056	1.013	1.075	1.152	1.199	1.297	1.028	1.270	1.136	9.70
15) Endrin	0.989	0.954	0.992	1.053	1.093	1.176	0.988	1.150	1.049	7.87
16) 4,4'-DDD	0.827	0.798	0.845	0.911	0.952	1.032	0.798	1.006	0.896	10.37
17) Endosulfan I	0.985	0.918	0.958	0.994	1.019	1.085	0.962	1.066	0.998	5.62
18) 4,4'-DDT	0.806	0.799	0.863	0.922	0.973	1.063	0.887	1.029	0.918	10.67
19) Endrin Aldeh	0.817	0.786	0.780	0.824	0.828	0.866	0.755	0.862	0.815	4.81
20) Endosulfan S	0.805	0.769	0.785	0.804	0.835	0.878	0.747	0.855	0.810	5.43
21) Methoxychlor	0.549	0.553	0.560	0.550	0.547	0.563	0.545	0.558	0.553	1.19
22) Mirex	0.975	0.893	0.915	0.934	0.859	0.874	1.011	0.871	0.917	5.89
23) Endrin Keton	0.994	0.934	1.006	1.059	1.082	1.149	1.157	1.131	1.064	7.61
24) Decachlorobi		1.029	0.981	0.904	0.973	0.857	0.903	0.892	0.934	6.53
25) I 1-bromo-2-nitrobenzen	ISTD									
26) Toxaphene{A}					0.021				0.021	0.00
27) Toxaphene{B}					0.052				0.052	0.00
28) Toxaphene{C}					0.037				0.037	0.00
29) Toxaphene{D}					0.037				0.037	0.00
30) Toxaphene{E}					0.035				0.035	0.00
31) I 1-bromo-2-nitrobenzen	ISTD									
32) Chlordane {A					0.036				0.036	0.00
33) Chlordane {B					0.048				0.048	0.00
34) Chlordane {C					0.165				0.165	0.00
35) Chlordane {D					0.258				0.258	0.00
36) Chlordane {E					0.038				0.038	0.00

Signal #2

1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	0.796	0.786	0.870	0.835	0.833	0.856	0.821	0.863	0.832	3.69
3) alpha-BHC	1.069	1.060	1.200	1.231	1.256	1.312	1.074	1.318	1.190	9.11
4) gamma-BHC	1.094	0.997	1.135	1.154	1.168	1.214	1.059	1.219	1.130	6.79

Initial Calibration Summary

Job Number: JB94209 **Sample:** G1G3672-ICC3672
Account: PTCNJB PT Consultants **Lab FileID:** 1G111429.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

5)	Heptachlor	0.945	0.909	0.966	0.987	0.987	1.031	0.989	1.020	0.979	4.03
6)	beta-BHC	0.478	0.460	0.503	0.491	0.487	0.500	0.525	0.503	0.493	3.90
7)	delta-BHC	0.884	0.860	0.970	1.021	1.035	1.098	0.894	1.091	0.982	9.60
8)	Aldrin	0.913	0.886	0.993	1.001	1.008	1.050	1.001	1.058	0.989	6.12
9)	Heptachlor E	0.828	0.830	0.903	0.914	0.910	0.944	0.878	0.953	0.895	5.25
10)	gamma-Chlord	0.868	0.863	0.905	0.918	0.924	0.968	0.799	0.970	0.902	6.35
11)	alpha-Chlord	0.815	0.785	0.873	0.889	0.889	0.928	0.841	0.934	0.869	6.04
12)	Endosulfan I	0.760	0.739	0.830	0.842	0.844	0.872	0.768	0.880	0.817	6.59
13)	4,4'-DDE	0.885	0.781	0.881	0.897	0.902	0.939	0.951	0.942	0.897	6.04
14)	Dieldrin	0.793	0.798	0.909	0.938	0.944	0.986	0.785	0.990	0.893	9.80
15)	Endrin	0.782	0.728	0.794	0.816	0.812	0.847	0.846	0.849	0.809	5.12
16)	4,4'-DDD	0.723	0.669	0.709	0.729	0.717	0.751	0.725	0.747	0.721	3.54
17)	Endosulfan I	0.687	0.721	0.774	0.775	0.777	0.808	0.754	0.812	0.763	5.51
18)	4,4'-DDT	0.593	0.605	0.620	0.639	0.642	0.694	0.744	0.679	0.652	7.74
19)	Endrin Aldeh	0.598	0.590	0.607	0.631	0.611	0.630	0.617	0.636	0.615	2.66
20)	Endosulfan S	0.546	0.542	0.589	0.606	0.603	0.638	0.574	0.633	0.591	6.11
21)	Methoxychlor	0.364	0.310	0.304	0.309	0.298	0.313	0.326	0.307	0.316	6.57
22)	Mirex	0.626	0.550	0.543	0.593	0.533	0.551	0.594	0.550	0.568	5.71
23)	Endrin Keton	0.675	0.655	0.706	0.756	0.727	0.758	0.625	0.755	0.707	7.21
24)	Decachlorobi		0.626	0.642	0.610	0.593	0.574	0.679	0.607	0.619	5.56

25) I 1-bromo-2-nitrobenzen ----------ISTD----------

26)	Toxaphene{A}	0.020	0.020	0.00
27)	Toxaphene{B}	0.024	0.024	0.00
28)	Toxaphene{C}	0.043	0.043	0.00
29)	Toxaphene{D}	0.026	0.026	0.00
30)	Toxaphene{E}	0.027	0.027	0.00

31) I 1-bromo-2-nitrobenzen ----------ISTD----------

32)	Chlordane {A	0.031	0.031	0.00
33)	Chlordane {B	0.034	0.034	0.00
34)	Chlordane {C	0.122	0.122	0.00
35)	Chlordane {D	0.197	0.197	0.00
36)	Chlordane {E	0.030	0.030	0.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

1PST3672.M Mon May 11 08:21:52 2015 RPT1

10.9.1

10

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G1G3672-ICV3672
Lab FileID: 1G111435.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3672\1G111435.D\ECD1A.CH Vial: 13
Signal #2 : C:\MSDCHEM\1\DATA\1G3672\1G111435.D\ECD2B.CH
Acq On    : 5-8-15 06:38:00 PM                        Operator: josephr
Sample    : icv3672-25                                Inst    : GC1G
Misc      : op83750,G1G3672,15.2,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3672.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 11 08:10:50 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	102	0.00	1.53- 1.59
3	A	alpha-BHC	1.259	1.145	9.1	91	0.00	2.81- 2.87
4	MA	gamma-BHC	1.233	1.114	9.7	90	0.00	3.15- 3.21
5	MA	Heptachlor	1.267	1.160	8.4	93	0.00	3.68- 3.74
6	B	beta-BHC	0.592	0.535	9.6	94	0.00	3.23- 3.29
7	B	delta-BHC	1.065	0.942	11.5	89	0.00	3.44- 3.50
8	MB	Aldrin	1.146	1.090	4.9	96	0.00	4.05- 4.11
9	B	Heptachlor Epoxide	1.103	1.037	6.0	95	0.00	4.82- 4.88
10	B	gamma-Chlordane	1.099	1.060	3.5	97	0.00	4.99- 5.05
11	B	alpha-Chlordane	1.139	1.036	9.0	94	0.00	5.17- 5.23
12	A	Endosulfan I	1.055	0.955	9.5	92	0.00	5.37- 5.43
13	B	4,4'-DDE	1.064	0.995	6.5	94	0.00	5.27- 5.33
14	MA	Dieldrin	1.136	1.067	6.1	94	0.00	5.71- 5.77
15	MA	Endrin	1.049	1.011	3.6	98	0.00	6.06- 6.12
16	A	4,4'-DDD	0.896	0.853	4.8	95	0.00	6.15- 6.22
17	B	Endosulfan II	0.998	0.954	4.4	98	0.00	6.40- 6.46
18	MA	4,4'-DDT	0.918	0.848	7.6	94	0.00	6.59- 6.65
19	B	Endrin Aldehyde	0.815	0.802	1.6	99	0.00	7.06- 7.12
20	B	Endosulfan Sulfate	0.810	0.776	4.2	98	0.00	7.77- 7.83
21	A	Methoxychlor	0.553	0.514	7.1	95	0.00	7.40- 7.46
23	B	Endrin Ketone	1.064	1.017	4.4	98	0.00	8.24- 8.30

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.72- 1.78
3	A	alpha-BHC	1.190	1.122	5.7	95	0.00	3.38- 3.44
4	MA	gamma-BHC	1.130	1.035	8.4	93	0.00	3.83- 3.89
5	MA	Heptachlor	0.979	0.911	6.9	96	0.00	4.42- 4.48
6	B	beta-BHC	0.493	0.458	7.1	97	0.00	3.91- 3.97
7	B	delta-BHC	0.982	0.896	8.8	91	0.00	4.31- 4.37
8	MB	Aldrin	0.989	0.961	2.8	100	0.00	4.89- 4.95
9	B	Heptachlor Epoxide	0.895	0.846	5.5	96	0.00	5.72- 5.78
10	B	gamma-Chlordane	0.902	0.871	3.4	99	0.00	6.01- 6.07
11	B	alpha-Chlordane	0.869	0.826	4.9	97	0.00	6.24- 6.30
12	A	Endosulfan I	0.817	0.769	5.9	95	0.00	6.34- 6.40
13	B	4,4'-DDE	0.897	0.843	6.0	98	0.00	6.49- 6.55
14	MA	Dieldrin	0.893	0.864	3.2	96	0.00	6.78- 6.84
15	MA	Endrin	0.809	0.770	4.8	98	0.00	7.28- 7.34
16	A	4,4'-DDD	0.721	0.669	7.2	96	0.00	7.44- 7.50
17	B	Endosulfan II	0.763	0.738	3.3	99	0.00	7.64- 7.70

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G1G3672-ICV3672
Lab FileID: 1G111435.D

18	MA	4,4'-DDT	0.652	0.575	11.8	94	0.00	7.98- 8.04
19	B	Endrin Aldehyde	0.615	0.605	1.6	100	0.00	8.21- 8.27
20	B	Endosulfan Sulfate	0.591	0.568	3.9	98	0.00	8.63- 8.69
21	A	Methoxychlor	0.316	0.278	12.0	94	0.00	8.99- 9.05
23	B	Endrin Ketone	0.707	0.702	0.7	97	0.00	9.31- 9.37

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G111429.D 1PST3672.M Mon May 11 08:19:02 2015 RPT1

10.9.2

10

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G1G3672-ICV3672
Lab FileID: 1G111436.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3672\1G111436.D\ECD1A.CH Vial: 14
Signal #2 : C:\MSDCHEM\1\DATA\1G3672\1G111436.D\ECD2B.CH
Acq On    : 5-8-15 06:54:10 PM                       Operator: josephr
Sample    : icv3672-25                               Inst    : GC1G
Misc      : op83750,G1G3672,15.2,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3672.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 11 08:10:50 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	99	0.00	1.53- 1.59
22	Mirex	0.917	0.957	-4.4	101	0.00	7.58- 7.64
*****	Signal #2 *****						
1 I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.72- 1.78
22	Mirex	0.568	0.589	-3.7	100	0.00	9.25- 9.31

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G111429.D 1PST3672.M Mon May 11 08:19:03 2015 RPT1

10.9.3 10

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G1G3672-ICV3672
Lab FileID: 1G111437.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3672\1G111437.D\ECD1A.CH Vial: 15
Signal #2 : C:\MSDCHEM\1\DATA\1G3672\1G111437.D\ECD2B.CH
Acq On    : 5-8-15 07:10:18 PM                       Operator: josephr
Sample    : icv3672-500                              Inst    : GC1G
Misc      : op83750,G1G3672,15.2,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3672.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 11 07:16:10 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
31 I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.46- 1.66
32	Chlordane {A}	0.036	0.040	-11.1	112	0.00	3.52- 3.72
33	Chlordane {B}	0.048	0.046	4.2	97	0.00	4.14- 4.34
34	Chlordane {C}	0.165	0.151	8.5	91	0.00	4.92- 5.12
35	Chlordane {D}	0.258	0.242	6.2	93	0.01	5.10- 5.30
36	Chlordane {E}	0.038	0.037	2.6	96	0.00	6.22- 6.42

***** Signal #2 *****

31 I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.65- 1.85
32	Chlordane {A}	0.031	0.035	-12.9	114	0.00	4.16- 4.36
33	Chlordane {B}	0.034	0.034	0.0	101	0.00	5.01- 5.21
34	Chlordane {C}	0.122	0.113	7.4	94	0.00	5.94- 6.14
35	Chlordane {D}	0.197	0.185	6.1	95	0.00	6.17- 6.37
36	Chlordane {E}	0.030	0.028	6.7	95	0.00	7.65- 7.85

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G111434.D 1PST3672.M Mon May 11 07:21:49 2015 RPT1

10.9.4 10

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Sample: G1G3672-ICV3672
Lab FileID: 1G111438.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3672\1G111438.D\ECD1A.CH Vial: 16
Signal #2 : C:\MSDCHEM\1\DATA\1G3672\1G111438.D\ECD2B.CH
Acq On    : 5-8-15 07:26:29 PM                       Operator: josephr
Sample    : icv3672-500                              Inst    : GC1G
Misc      : op83750,G1G3672,15.2,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3672.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 11 07:16:10 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	1.46- 1.66
26	L8	Toxaphene{A}	0.021	0.020	4.8	93	0.00	5.65- 5.85
27	L8	Toxaphene{B}	0.052	0.051	1.9	96	0.00	6.31- 6.51
28	L8	Toxaphene{C}	0.037	0.035	5.4	92	0.00	6.50- 6.70
29	L8	Toxaphene{D}	0.037	0.036	2.7	94	0.00	6.85- 7.05
30	L8	Toxaphene{E}	0.035	0.033	5.7	93	0.00	7.53- 7.73

***** Signal #2 *****

25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	99	0.00	1.65- 1.85
26	L8	Toxaphene{A}	0.020	0.019	5.0	96	0.00	6.67- 6.87
27	L8	Toxaphene{B}	0.024	0.023	4.2	96	0.00	7.54- 7.74
28	L8	Toxaphene{C}	0.043	0.042	2.3	95	0.00	7.71- 7.91
29	L8	Toxaphene{D}	0.026	0.025	3.8	96	0.00	8.15- 8.35
30	L8	Toxaphene{E}	0.027	0.025	7.4	93	0.00	8.87- 9.07

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G111434.D 1PST3672.M Mon May 11 07:25:21 2015 RPT1

10.9.5 10

Continuing Calibration Summary

Job Number: JB94209 **Sample:** G1G3674-CC3672
Account: PTCNJB PT Consultants **Lab FileID:** 1G111463.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\1G3674\1G111463.D\ECD1A.CH Vial: 3
Acq On    : 5-11-15 07:52:05 AM                      Operator: josephr
Sample    : cc3672-25                                Inst    : GC1G
Misc      : op83772,G1G3674,15.0,,,10,1              Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\MSDCHEM\1\DATA\1G3674\1G111463.D\ECD2B.CH Vial: 3
Acq On    : 5-11-15 07:52:04 AM                      Operator: josephr
Sample    : cc3672-25                                Inst    : GC1G
Misc      : op83772,G1G3674,15.0,,,10,1              Multiplr: 1.00
IntFile   : autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3672.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 11 08:10:50 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	59	0.00	1.53- 1.59
2	SAB	Tetrachloro-m-xylene	1.051	0.935	11.0	56	0.00	2.24- 2.30
3	A	alpha-BHC	1.259	1.240	1.5	57	0.00	2.81- 2.87
4	MA	gamma-BHC	1.233	1.212	1.7	57	0.00	3.15- 3.21
5	MA	Heptachlor	1.267	1.253	1.1	58	0.00	3.68- 3.74
6	B	beta-BHC	0.592	0.580	2.0	59	0.00	3.23- 3.29
7	B	delta-BHC	1.065	1.079	-1.3	59	0.00	3.44- 3.50
8	MB	Aldrin	1.146	1.114	2.8	57	0.00	4.04- 4.10
9	B	Heptachlor Epoxide	1.103	1.045	5.3	56	0.00	4.82- 4.88
10	B	gamma-Chlordane	1.099	1.067	2.9	56	0.00	4.99- 5.05
11	B	alpha-Chlordane	1.139	1.093	4.0	58	0.00	5.17- 5.23
12	A	Endosulfan I	1.055	1.033	2.1	58	0.00	5.37- 5.43
13	B	4,4'-DDE	1.064	1.006	5.5	55	0.00	5.27- 5.33
14	MA	Dieldrin	1.136	1.097	3.4	56	0.00	5.71- 5.77
15	MA	Endrin	1.049	1.024	2.4	57	0.00	6.05- 6.11
16	A	4,4'-DDD	0.896	0.882	1.6	57	0.00	6.15- 6.22
17	B	Endosulfan II	0.998	0.995	0.3	59	0.00	6.40- 6.46
18	MA	4,4'-DDT	0.918	0.907	1.2	58	0.00	6.59- 6.65
19	B	Endrin Aldehyde	0.815	0.858	-5.3	61	0.00	7.06- 7.12
20	B	Endosulfan Sulfate	0.810	0.888	-9.6	65	0.00	7.77- 7.83
21	A	Methoxychlor	0.553	0.577	-4.3	62	0.00	7.39- 7.45
22		Mirex	0.917	0.979	-6.8	62	0.00	7.58- 7.64
23	B	Endrin Ketone	1.064	1.115	-4.8	62	0.00	8.23- 8.29
24	SA	Decachlorobiphenyl	0.934	0.874	6.4	57	0.00	9.55- 9.61

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	60	0.00	1.72- 1.78
2	SAB	Tetrachloro-m-xylene	0.832	0.888	-6.7	63	0.00	2.67- 2.73
3	A	alpha-BHC	1.190	1.224	-2.9	59	0.00	3.38- 3.44
4	MA	gamma-BHC	1.130	1.087	3.8	56	0.00	3.83- 3.89
5	MA	Heptachlor	0.979	0.750	23.4#	45#	0.00	4.42- 4.48
6	B	beta-BHC	0.493	0.485	1.6	59	0.00	3.91- 3.97

Continuing Calibration Summary

Job Number: JB94209 **Sample:** G1G3674-CC3672
Account: PTCNJB PT Consultants **Lab FileID:** 1G111463.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

7	B	delta-BHC	0.982	1.021	-4.0	60	0.00	4.31-	4.37
8	MB	Aldrin	0.989	0.977	1.2	58	0.00	4.89-	4.95
9	B	Heptachlor Epoxide	0.895	0.881	1.6	57	0.00	5.72-	5.78
10	B	gamma-Chlordane	0.902	0.873	3.2	57	0.00	6.01-	6.07
11	B	alpha-Chlordane	0.869	0.858	1.3	58	0.00	6.24-	6.30
12	A	Endosulfan I	0.817	0.821	-0.5	58	0.00	6.34-	6.40
13	B	4,4'-DDE	0.897	0.844	5.9	56	0.00	6.48-	6.54
14	MA	Dieldrin	0.893	0.858	3.9	55	0.00	6.78-	6.84
15	MA	Endrin	0.809	0.677	16.3	50#	0.00	7.28-	7.34
16	A	4,4'-DDD	0.721	0.546	24.3#	45#	0.00	7.44-	7.50
17	B	Endosulfan II	0.763	0.744	2.5	57	0.00	7.64-	7.70
18	MA	4,4'-DDT	0.652	0.499	23.5#	47#	0.00	7.98-	8.04
19	B	Endrin Aldehyde	0.615	0.577	6.2	55	0.00	8.21-	8.27
20	B	Endosulfan Sulfate	0.591	0.606	-2.5	60	0.00	8.63-	8.69
21	A	Methoxychlor	0.316	0.213	32.6#	41#	0.00	8.99-	9.05
22		Mirex	0.568	0.541	4.8	54	0.00	9.25-	9.31
23	B	Endrin Ketone	0.707	0.672	5.0	53	0.00	9.30-	9.36
24	SA	Decachlorobiphenyl	0.619	0.555	10.3	54	0.00	10.59-	10.65

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G111429.D 1PST3672.M Mon May 11 12:36:58 2015 RPT1

10.9.6

10

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G1G3674-CC3672
Lab FileID: 1G111483.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3674\1G111483.D\ECD1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\1G3674\1G111483.D\ECD2B.CH
Acq On    : 5-11-15 03:36:46 PM                      Operator: rebeccak
Sample    : cc3672-50                                Inst    : GC1G
Misc      : op83796,G1G3674,15.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3672.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 11 08:10:50 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	81	0.00	1.53- 1.59
2	SAB	Tetrachloro-m-xylene	1.051	1.005	4.4	83	0.00	2.24- 2.30
3	A	alpha-BHC	1.259	1.457	-15.7	85	0.00	2.81- 2.87
4	MA	gamma-BHC	1.233	1.350	-9.5	83	0.00	3.15- 3.21
5	MA	Heptachlor	1.267	1.362	-7.5	84	0.00	3.68- 3.74
6	B	beta-BHC	0.592	0.580	2.0	82	0.00	3.23- 3.29
7	B	delta-BHC	1.065	1.213	-13.9	85	0.00	3.44- 3.50
8	MB	Aldrin	1.146	1.231	-7.4	82	0.00	4.04- 4.10
9	B	Heptachlor Epoxide	1.103	1.090	1.2	78	0.00	4.82- 4.88
10	B	gamma-Chlordane	1.099	1.107	-0.7	78	0.00	4.99- 5.05
11	B	alpha-Chlordane	1.139	1.141	-0.2	81	0.00	5.17- 5.23
12	A	Endosulfan I	1.055	1.091	-3.4	82	0.00	5.36- 5.42
13	B	4,4'-DDE	1.064	1.112	-4.5	79	0.00	5.27- 5.33
14	MA	Dieldrin	1.136	1.200	-5.6	81	0.00	5.71- 5.77
15	MA	Endrin	1.049	1.149	-9.5	85	0.00	6.05- 6.11
16	A	4,4'-DDD	0.896	0.968	-8.0	83	0.00	6.15- 6.22
17	B	Endosulfan II	0.998	1.041	-4.3	83	0.00	6.39- 6.45
18	MA	4,4'-DDT	0.918	0.999	-8.8	84	0.00	6.59- 6.65
19	B	Endrin Aldehyde	0.815	0.832	-2.1	82	0.00	7.05- 7.11
20	B	Endosulfan Sulfate	0.810	0.921	-13.7	90	0.00	7.77- 7.83
21	A	Methoxychlor	0.553	0.575	-4.0	85	0.00	7.39- 7.45
22		Mirex	0.917	0.868	5.3	82	0.00	7.57- 7.63
23	B	Endrin Ketone	1.064	1.104	-3.8	83	0.00	8.23- 8.29
24	SA	Decachlorobiphenyl	0.934	0.824	11.8	69	0.00	9.55- 9.61
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	80	0.00	1.46- 1.66
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	82	0.00	1.46- 1.66
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.9.7

10

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G1G3674-CC3672
Lab FileID: 1G111483.D

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	83	0.00	1.72- 1.78
2	SAB	Tetrachloro-m-xylene	0.832	0.883	-6.1	88	0.00	2.67- 2.73
3	A	alpha-BHC	1.190	1.304	-9.6	86	0.00	3.38- 3.44
4	MA	gamma-BHC	1.130	1.132	-0.2	80	0.00	3.83- 3.89
5	MA	Heptachlor	0.979	0.964	1.5	81	0.00	4.42- 4.48
6	B	beta-BHC	0.493	0.470	4.7	80	0.00	3.91- 3.97
7	B	delta-BHC	0.982	1.066	-8.6	85	0.00	4.31- 4.37
8	MB	Aldrin	0.989	0.988	0.1	81	0.00	4.89- 4.95
9	B	Heptachlor Epoxide	0.895	0.876	2.1	80	0.00	5.72- 5.78
10	B	gamma-Chlordane	0.902	0.880	2.4	79	0.00	6.01- 6.07
11	B	alpha-Chlordane	0.869	0.848	2.4	79	0.00	6.24- 6.30
12	A	Endosulfan I	0.817	0.811	0.7	80	0.00	6.34- 6.40
13	B	4,4'-DDE	0.897	0.866	3.5	80	0.00	6.48- 6.54
14	MA	Dieldrin	0.893	0.867	2.9	76	0.00	6.78- 6.84
15	MA	Endrin	0.809	0.769	4.9	79	0.00	7.28- 7.34
16	A	4,4'-DDD	0.721	0.684	5.1	79	0.00	7.44- 7.50
17	B	Endosulfan II	0.763	0.748	2.0	80	0.00	7.64- 7.70
18	MA	4,4'-DDT	0.652	0.612	6.1	79	0.00	7.98- 8.04
19	B	Endrin Aldehyde	0.615	0.589	4.2	80	0.00	8.21- 8.27
20	B	Endosulfan Sulfate	0.591	0.650	-10.0	89	0.00	8.62- 8.68
21	A	Methoxychlor	0.316	0.280	11.4	78	0.00	8.99- 9.05
22		Mirex	0.568	0.497	12.5	77	0.00	9.25- 9.31
23	B	Endrin Ketone	0.707	0.702	0.7	80	0.00	9.30- 9.36
24	SA	Decachlorobiphenyl	0.619	0.551	11.0	77	0.00	10.59-10.65
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	81	0.00	1.65- 1.85
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	83	0.00	1.65- 1.85
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G111430.D 1PST3672.M Tue May 12 09:05:33 2015 RPT1

10.9.7

10

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Sample: G1G3675-CC3672
Lab FileID: 1G111527.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3675\1G111527.D\ECD1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\1G3675\1G111527.D\ECD2B.CH
Acq On    : 5-12-15 02:48:45 PM                      Operator: rebeccak
Sample    : cc3672-25                                Inst    : GC1G
Misc      : op83759,G1G3675,15.7,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3672.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed May 13 08:57:33 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	95	0.00	1.55- 1.61
2	SAB	Tetrachloro-m-xylene	1.051	0.948	9.8	91	0.00	2.25- 2.31
3	A	alpha-BHC	1.259	1.267	-0.6	93	0.00	2.81- 2.87
4	MA	gamma-BHC	1.233	1.198	2.8	90	0.00	3.15- 3.21
5	MA	Heptachlor	1.267	1.248	1.5	93	0.00	3.68- 3.74
6	B	beta-BHC	0.592	0.552	6.8	90	0.00	3.24- 3.30
7	B	delta-BHC	1.065	1.045	1.9	92	0.00	3.44- 3.50
8	MB	Aldrin	1.146	1.115	2.7	91	0.00	4.05- 4.11
9	B	Heptachlor Epoxide	1.103	1.010	8.4	86	0.00	4.82- 4.88
10	B	gamma-Chlordane	1.099	1.029	6.4	87	0.00	4.99- 5.05
11	B	alpha-Chlordane	1.139	1.050	7.8	89	0.00	5.17- 5.23
12	A	Endosulfan I	1.055	0.990	6.2	89	0.00	5.36- 5.42
13	B	4,4'-DDE	1.064	0.983	7.6	87	0.00	5.27- 5.33
14	MA	Dieldrin	1.136	1.071	5.7	88	0.00	5.71- 5.77
15	MA	Endrin	1.049	1.025	2.3	92	0.00	6.05- 6.11
16	A	4,4'-DDD	0.896	0.847	5.5	88	0.00	6.15- 6.22
17	B	Endosulfan II	0.998	0.939	5.9	89	0.00	6.39- 6.45
18	MA	4,4'-DDT	0.918	0.888	3.3	91	0.00	6.59- 6.65
19	B	Endrin Aldehyde	0.815	0.765	6.1	88	0.00	7.05- 7.11
20	B	Endosulfan Sulfate	0.810	0.799	1.4	94	0.00	7.76- 7.82
21	A	Methoxychlor	0.553	0.531	4.0	91	0.00	7.39- 7.45
22		Mirex	0.917	0.861	6.1	87	0.00	7.57- 7.63
23	B	Endrin Ketone	1.064	0.986	7.3	88	0.00	8.23- 8.29
24	SA	Decachlorobiphenyl	0.934	0.718	23.1#	75	0.00	9.55- 9.61
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.48- 1.68
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.48- 1.68
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.9.8 10

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G1G3675-CC3672
Lab FileID: 1G111527.D

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	1.74- 1.80
2	SAB	Tetrachloro-m-xylene	0.832	0.827	0.6	97	0.00	2.68- 2.74
3	A	alpha-BHC	1.190	1.191	-0.1	95	0.00	3.38- 3.44
4	MA	gamma-BHC	1.130	1.042	7.8	89	0.00	3.83- 3.89
5	MA	Heptachlor	0.979	0.951	2.9	95	0.00	4.42- 4.49
6	B	beta-BHC	0.493	0.445	9.7	89	0.00	3.92- 3.98
7	B	delta-BHC	0.982	0.966	1.6	93	0.00	4.32- 4.38
8	MB	Aldrin	0.989	0.897	9.3	88	0.00	4.89- 4.95
9	B	Heptachlor Epoxide	0.895	0.807	9.8	87	0.00	5.72- 5.78
10	B	gamma-Chlordane	0.902	0.799	11.4	86	0.00	6.01- 6.07
11	B	alpha-Chlordane	0.869	0.777	10.6	86	0.00	6.24- 6.30
12	A	Endosulfan I	0.817	0.749	8.3	88	0.00	6.34- 6.40
13	B	4,4'-DDE	0.897	0.788	12.2	86	0.00	6.48- 6.54
14	MA	Dieldrin	0.893	0.818	8.4	86	0.00	6.78- 6.84
15	MA	Endrin	0.809	0.737	8.9	89	0.00	7.28- 7.34
16	A	4,4'-DDD	0.721	0.641	11.1	87	0.00	7.44- 7.50
17	B	Endosulfan II	0.763	0.678	11.1	86	0.00	7.63- 7.69
18	MA	4,4'-DDT	0.652	0.583	10.6	90	0.00	7.98- 8.04
19	B	Endrin Aldehyde	0.615	0.532	13.5	83	0.00	8.21- 8.27
20	B	Endosulfan Sulfate	0.591	0.549	7.1	89	0.00	8.62- 8.68
21	A	Methoxychlor	0.316	0.281	11.1	90	0.00	8.99- 9.05
22		Mirex	0.568	0.485	14.6	80	0.00	9.25- 9.31
23	B	Endrin Ketone	0.707	0.624	11.7	81	0.00	9.30- 9.36
24	SA	Decachlorobiphenyl	0.619	0.533	13.9	86	0.00	10.59-10.65
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.67- 1.87
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.67- 1.87
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G111429.D 1PST3672.M Wed May 13 09:40:08 2015 RPT1

10.9.8 10

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G1G3675-CC3672
Lab FileID: 1G111549.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3675\1G111549.D\ECD1A.CH Vial: 25
Signal #2 : C:\MSDCHEM\1\DATA\1G3675\1G111549.D\ECD2B.CH
Acq On    : 5-12-15 08:37:22 PM                      Operator: rebeccak
Sample    : cc3672-50                                Inst    : GC1G
Misc      : op83792,G1G3675,300,,,2,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3672.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed May 13 10:35:45 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	103	0.00	1.55- 1.61
2	SAB	Tetrachloro-m-xylene	1.051	1.001	4.8	105	0.00	2.26- 2.32
3	A	alpha-BHC	1.259	1.434	-13.9	107	0.00	2.82- 2.88
4	MA	gamma-BHC	1.233	1.378	-11.8	107	0.00	3.16- 3.22
5	MA	Heptachlor	1.267	1.299	-2.5	102	0.00	3.69- 3.75
6	B	beta-BHC	0.592	0.612	-3.4	110	0.00	3.24- 3.30
7	B	delta-BHC	1.065	1.184	-11.2	105	0.00	3.45- 3.51
8	MB	Aldrin	1.146	1.263	-10.2	108	0.00	4.06- 4.12
9	B	Heptachlor Epoxide	1.103	1.165	-5.6	106	0.00	4.83- 4.89
10	B	gamma-Chlordane	1.099	1.176	-7.0	106	0.00	5.00- 5.06
11	B	alpha-Chlordane	1.139	1.175	-3.2	107	0.00	5.18- 5.24
12	A	Endosulfan I	1.055	1.112	-5.4	106	0.00	5.37- 5.43
13	B	4,4'-DDE	1.064	1.161	-9.1	105	0.00	5.28- 5.34
14	MA	Dieldrin	1.136	1.232	-8.5	106	0.00	5.71- 5.77
15	MA	Endrin	1.049	0.981	6.5	93	0.00	6.06- 6.12
16	A	4,4'-DDD	0.896	1.013	-13.1	110	0.00	6.16- 6.23
17	B	Endosulfan II	0.998	1.042	-4.4	106	0.00	6.40- 6.46
18	MA	4,4'-DDT	0.918	0.890	3.1	95	0.00	6.59- 6.65
19	B	Endrin Aldehyde	0.815	0.907	-11.3	113	0.00	7.06- 7.12
20	B	Endosulfan Sulfate	0.810	0.767	5.3	95	0.00	7.77- 7.83
21	A	Methoxychlor	0.553	0.505	8.7	95	0.00	7.40- 7.46
22		Mirex	0.917	0.926	-1.0	112	0.00	7.58- 7.64
23	B	Endrin Ketone	1.064	0.939	11.7	90	0.00	8.24- 8.30
24	SA	Decachlorobiphenyl	0.934	0.826	11.6	88	0.00	9.55- 9.61
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.48- 1.68
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.48- 1.68
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.9.9 10

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G1G3675-CC3672
Lab FileID: 1G111549.D

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	108	0.00	1.74- 1.80
2	SAB	Tetrachloro-m-xylene	0.832	0.870	-4.6	113	0.00	2.68- 2.74
3	A	alpha-BHC	1.190	1.298	-9.1	111	0.00	3.39- 3.45
4	MA	gamma-BHC	1.130	1.200	-6.2	111	0.00	3.83- 3.89
5	MA	Heptachlor	0.979	0.969	1.0	106	0.00	4.43- 4.49
6	B	beta-BHC	0.493	0.513	-4.1	114	0.00	3.92- 3.98
7	B	delta-BHC	0.982	1.059	-7.8	110	0.00	4.32- 4.38
8	MB	Aldrin	0.989	1.022	-3.3	109	0.00	4.89- 4.95
9	B	Heptachlor Epoxide	0.895	0.914	-2.1	108	0.00	5.73- 5.79
10	B	gamma-Chlordane	0.902	0.931	-3.2	109	0.00	6.01- 6.07
11	B	alpha-Chlordane	0.869	0.893	-2.8	108	0.00	6.24- 6.30
12	A	Endosulfan I	0.817	0.843	-3.2	108	0.00	6.34- 6.40
13	B	4,4'-DDE	0.897	0.907	-1.1	108	0.00	6.49- 6.55
14	MA	Dieldrin	0.893	0.935	-4.7	107	0.00	6.78- 6.84
15	MA	Endrin	0.809	0.689	14.8	92	0.00	7.29- 7.35
16	A	4,4'-DDD	0.721	0.733	-1.7	110	0.00	7.44- 7.50
17	B	Endosulfan II	0.763	0.755	1.0	105	0.00	7.64- 7.70
18	MA	4,4'-DDT	0.652	0.561	14.0	94	0.00	7.98- 8.04
19	B	Endrin Aldehyde	0.615	0.634	-3.1	112	0.00	8.21- 8.27
20	B	Endosulfan Sulfate	0.591	0.523	11.5	94	0.00	8.63- 8.69
21	A	Methoxychlor	0.316	0.262	17.1	95	0.00	8.99- 9.05
22		Mirex	0.568	0.522	8.1	106	0.00	9.25- 9.31
23	B	Endrin Ketone	0.707	0.583	17.5	87	0.00	9.30- 9.36
24	SA	Decachlorobiphenyl	0.619	0.513	17.1	93	0.00	10.59-10.65
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.67- 1.87
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	108	0.00	1.67- 1.87
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G111430.D 1PST3672.M Wed May 13 12:27:09 2015 RPT1

10.9.9 10

Initial Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3335-ICC3335
Lab FileID: 2G112772.D

Response Factor Report HP G1530A

Method Path : C:\MSDCHEM\1\METHODS\
Method File : 2PCB3335.M
Title :
Last Update : Wed Apr 22 15:15:22 2015
Response Via : Initial Calibration

Calibration Files
50 =2g112769a.D 250 =2g112770.D 500 =2g112771.D
1000 =2g112772.D 2000 =2g112773.D 3000 =2g112774.D

	Compound	50	250	500	1000	2000	3000	Avg	%RSD
1) S	Tetrachloro-m...	2.360	2.629	2.814	2.842	2.842	2.803	2.715 E7	7.04
2)	AR1221-A				1.489			1.489 E5	0.00
3)	AR1221-B				2.836			2.836 E5	0.00
4)	AR1221-C				8.912			8.912 E5	0.00
5)	AR1221-D				7.964			7.964 E4	0.00
6)	AR1221-E				9.778			9.778 E4	0.00
7)	AR1232-A				7.185			7.185 E5	0.00
8)	AR1232-B				4.973			4.973 E5	0.00
9)	AR1232-C				1.102			1.102 E6	0.00
10)	AR1232-D				4.096			4.096 E5	0.00
11)	AR1232-E				3.911			3.911 E5	0.00
12)	AR1242-A				8.618			8.618 E5	0.00
13)	AR1242-B				2.049			2.049 E6	0.00
14)	AR1242-C				7.557			7.557 E5	0.00
15)	AR1242-D				8.000			8.000 E5	0.00
16)	AR1242-E				7.217			7.217 E5	0.00
17)	AR1248-A				4.380			4.380 E5	0.00
18)	AR1248-B				1.175			1.175 E6	0.00
19)	AR1248-C				1.220			1.220 E6	0.00
20)	AR1248-D				1.203			1.203 E6	0.00
21)	AR1248-E				6.360			6.360 E5	0.00
22)	AR1248-F				1.170			1.170 E6	0.00
23)	AR1248-G				1.243			1.243 E6	0.00
24)	AR1254-A				9.727			9.727 E5	0.00
25)	AR1254-B				1.405			1.405 E6	0.00
26)	AR1254-C				1.078			1.078 E6	0.00
27)	AR1254-D				1.869			1.869 E6	0.00
28)	AR1254-E				1.605			1.605 E6	0.00
29)	AR1254-F				1.387			1.387 E6	0.00
30)	AR1254-G				1.964			1.964 E6	0.00
31)	AR1016-A	6.126	5.486	5.935	5.772	5.566	5.448	5.722 E5	4.73
32)	AR1016-B	1.081	1.032	1.051	1.023	0.980	0.950	1.019 E6	4.66
33)	AR1016-C	2.647	2.421	2.505	2.473	2.428	2.419	2.482 E6	3.54
34)	AR1016-D	9.884	9.012	9.290	9.117	8.852	8.771	9.154 E5	4.40
35)	AR1016-E	1.052	0.919	0.959	0.947	0.924	0.921	0.954 E6	5.32
36)	AR1260-A	2.099	1.961	2.053	2.065	2.094	2.124	2.066 E6	2.77
37)	AR1260-B	1.282	1.241	1.297	1.301	1.298	1.289	1.285 E6	1.76
38)	AR1260-C	1.310	1.264	1.340	1.359	1.374	1.393	1.340 E6	3.51
39)	AR1260-D	3.177	3.219	3.454	3.583	3.653	3.721	3.468 E6	6.56
40)	AR1260-E	2.029	1.956	2.043	2.091	2.141	2.183	2.074 E6	3.95
41)	AR1262-A				1.389			1.389 E6	0.00
42)	AR1262-B				1.843			1.843 E6	0.00
43)	AR1262-C				1.678			1.678 E6	0.00
44)	AR1262-D				4.105			4.105 E6	0.00
45)	AR1262-E				2.395			2.395 E6	0.00
46)	AR1268-A				4.014			4.014 E6	0.00

Initial Calibration Summary

Job Number: JB94209 **Sample:** G2G3335-ICC3335
Account: PTCNJB PT Consultants **Lab FileID:** 2G112772.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

47)		AR1268-B				4.649			4.649	E6	0.00
48)		AR1268-C				3.542			3.542	E6	0.00
49)		AR1268-D				1.439			1.439	E6	0.00
50)		AR1268-E				1.137			1.137	E7	0.00
51)	S	Decachlorobip...	2.809	2.462	2.660	2.658	2.606	2.642	2.640	E7	4.22

Signal #2 Calibration Files

50 =2g112769a.D 250 =2g112770.D 500 =2g112771.D
1000 =2g112772.D 2000 =2g112773.D 3000 =2g112774.D

		Compound	50	250	500	1000	2000	3000	Avg		%RSD
1)	S	Tetrachloro-m...	1.560	1.426	1.519	1.547	1.564	1.578	1.532	E7	3.65
2)		AR1221-A				1.025			1.025	E5	0.00
3)		AR1221-B				1.607			1.607	E5	0.00
4)		AR1221-C				3.928			3.928	E5	0.00
5)		AR1221-D				7.552			7.552	E4	0.00
6)		AR1221-E				5.397			5.397	E4	0.00
7)		AR1232-A				3.277			3.277	E5	0.00
8)		AR1232-B				2.679			2.679	E5	0.00
9)		AR1232-C				5.556			5.556	E5	0.00
10)		AR1232-D				2.261			2.261	E5	0.00
11)		AR1232-E				1.532			1.532	E5	0.00
12)		AR1242-A				4.661			4.661	E5	0.00
13)		AR1242-B				1.036			1.036	E6	0.00
14)		AR1242-C				4.125			4.125	E5	0.00
15)		AR1242-D				2.378			2.378	E5	0.00
16)		AR1242-E				3.905			3.905	E5	0.00
17)		AR1248-A				2.487			2.487	E5	0.00
18)		AR1248-B				6.569			6.569	E5	0.00
19)		AR1248-C				3.724			3.724	E5	0.00
20)		AR1248-D				4.897			4.897	E5	0.00
21)		AR1248-E				5.415			5.415	E5	0.00
22)		AR1248-F				6.692			6.692	E5	0.00
23)		AR1248-G				5.827			5.827	E5	0.00
24)		AR1254-A				6.231			6.231	E5	0.00
25)		AR1254-B				6.670			6.670	E5	0.00
26)		AR1254-C				5.330			5.330	E5	0.00
27)		AR1254-D				9.617			9.617	E5	0.00
28)		AR1254-E				7.309			7.309	E5	0.00
29)		AR1254-F				7.847			7.847	E5	0.00
30)		AR1254-G				9.809			9.809	E5	0.00
31)		AR1016-A	3.160	2.726	2.773	2.697	2.587	2.549	2.749	E5	7.96
32)		AR1016-B	6.544	5.519	5.628	5.467	5.249	5.137	5.591	E5	8.96
33)		AR1016-C	1.312	1.197	1.248	1.241	1.211	1.208	1.236	E6	3.39
34)		AR1016-D	5.192	4.839	4.988	4.921	4.774	4.753	4.911	E5	3.33
35)		AR1016-E	4.163	3.576	3.709	3.666	3.582	3.600	3.716	E5	6.06
36)		AR1260-A	9.153	8.314	8.821	8.810	8.663	8.587	8.725	E5	3.21
37)		AR1260-B	6.642	6.116	6.382	6.374	6.288	6.259	6.343	E5	2.76
38)		AR1260-C	7.051	6.672	7.009	7.050	7.043	7.058	6.980	E5	2.18
39)		AR1260-D	1.491	1.402	1.488	1.503	1.496	1.489	1.478	E6	2.57
40)		AR1260-E	8.855	8.674	9.201	9.327	9.478	9.594	9.188	E5	3.90
41)		AR1262-A				6.736			6.736	E5	0.00
42)		AR1262-B				9.059			9.059	E5	0.00
43)		AR1262-C				8.469			8.469	E5	0.00
44)		AR1262-D				1.745			1.745	E6	0.00
45)		AR1262-E				1.068			1.068	E6	0.00
46)		AR1268-A				1.908			1.908	E6	0.00
47)		AR1268-B				2.017			2.017	E6	0.00
48)		AR1268-C				1.553			1.553	E6	0.00

Initial Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Sample: G2G3335-ICC3335
Lab FileID: 2G112772.D

```
 49)     AR1268-D                          6.353             6.353 E5  0.00
 50)     AR1268-E                          4.820             4.820 E6  0.00
 51) S   Decachlorobip... 1.128 1.112 1.153 1.135 1.127 1.126 1.130 E7  1.17
 ---------------------------------------------------------------------------
 (#) = Out of Range

2PCB3335.M Wed Apr 22 15:25:47 2015 RPT1
```

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Sample: G2G3335-ICV3335
Lab FileID: 2G112780.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\2G3335\2g112780.D\ECD1A.CH Vial: 14
Signal #2 : C:\msdchem\1\DATA\2G3335\2g112780.D\ECD2B.CH
Acq On    : 22 Apr 2015   1:49 pm                    Operator: dylang
Sample    : icv3335-1000                             Inst    : HP G1530A
Misc      : op83272,G2G3335,16.2,,,10,1              Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e

Method       : C:\MSDCHEM\1\METHODS\2PCB3335.M (Chemstation Integrator)
Title        :
Last Update  : Wed Apr 22 15:15:22 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene		----------NA----------				
2	AR1221-A	148.875	150.302 E3	-1.0	101	0.00	2.46- 2.66
3	AR1221-B		----------NA----------				
4	AR1221-C	891.166	1052.292 E3	-18.1	118	0.00	3.42- 3.62
5	AR1221-D		----------NA----------				
6	AR1221-E	97.779	102.276 E3	-4.6	105	0.00	4.01- 4.21
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A	972.669	912.976 E3	6.1	94	0.00	5.26- 6.26
25	AR1254-B	1.405	1.339 E6	4.7	95	0.00	6.02- 6.22
26	AR1254-C	1.078	1.049 E6	2.7	97	0.00	6.40- 6.60
27	AR1254-D	1.869	1.840 E6	1.6	98	0.00	6.57- 6.77
28	AR1254-E	1.605	1.727 E6	-7.6	108	0.00	6.96- 7.16
29	AR1254-F	1.387	1.399 E6	-0.9	101	0.00	7.21- 7.41
30	AR1254-G	1.964	2.035 E6	-3.6	104	0.00	7.60- 7.80
31	AR1016-A		----------NA----------				
32	AR1016-B		----------NA----------				
33	AR1016-C		----------NA----------				
34	AR1016-D		----------NA----------				
35	AR1016-E		----------NA----------				
36	AR1260-A		----------NA----------				
37	AR1260-B		----------NA----------				
38	AR1260-C		----------NA----------				
39	AR1260-D		----------NA----------				
40	AR1260-E		----------NA----------				
41	AR1262-A		----------NA----------				

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3335-ICV3335
Lab FileID: 2G112780.D

42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				
48		AR1268-C			----------NA----------				
49		AR1268-D			----------NA----------				
50		AR1268-E			----------NA----------				
51	S	Decachlorobiphenyl			----------NA----------				

***** Signal #2 *****

1	S	Tetrachloro-m-xylene			----------NA----------				
2		AR1221-A	102.544	104.354	E3	-1.8	102	0.00	3.01- 3.21
3		AR1221-B			----------NA----------				
4		AR1221-C	392.754	468.451	E3	-19.3	119	0.00	4.26- 4.46
5		AR1221-D			----------NA----------				
6		AR1221-E	53.969	61.342	E3	-13.7	114	0.00	4.91- 5.11
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A	623.060	617.302	E3	0.9	99	0.00	6.54- 7.54
25		AR1254-B	666.967	642.037	E3	3.7	96	0.00	7.20- 7.40
26		AR1254-C	533.024	527.710	E3	1.0	99	0.00	7.71- 7.91
27		AR1254-D	961.717	950.542	E3	1.2	99	0.00	7.88- 8.08
28		AR1254-E	730.901	791.514	E3	-8.3	108	0.00	8.21- 8.41
29		AR1254-F	784.703	838.198	E3	-6.8	107	0.05	8.72- 8.92
30		AR1254-G	980.942	1022.269	E3	-4.2	104	0.00	8.98- 9.18
31		AR1016-A			----------NA----------				
32		AR1016-B			----------NA----------				
33		AR1016-C			----------NA----------				
34		AR1016-D			----------NA----------				
35		AR1016-E			----------NA----------				
36		AR1260-A			----------NA----------				
37		AR1260-B			----------NA----------				
38		AR1260-C			----------NA----------				
39		AR1260-D			----------NA----------				
40		AR1260-E			----------NA----------				
41		AR1262-A			----------NA----------				
42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3335-ICV3335
Lab FileID: 2G112780.D

```
48     AR1268-C                          ----------NA----------
49     AR1268-D                          ----------NA----------
50     AR1268-E                          ----------NA----------
51 S   Decachlorobiphenyl                ----------NA----------
--------------------------------------------------------------------------
--------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    2g112772.D 2PCB3335.M       Wed Apr 22 15:26:54 2015   RPT1
```

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3335-ICV3335
Lab FileID: 2G112781.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\2G3335\2g112781.D\ECD1A.CH Vial: 15
Signal #2 : C:\msdchem\1\DATA\2G3335\2g112781.D\ECD2B.CH
Acq On    : 22 Apr 2015   2:06 pm                    Operator: dylang
Sample    : icv3335-1000                             Inst    : HP G1530A
Misc      : op83272,G2G3335,16.2,,,10,1              Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e

Method       : C:\MSDCHEM\1\METHODS\2PCB3335.M (Chemstation Integrator)
Title        :
Last Update  : Wed Apr 22 15:15:22 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene		----------NA----------				
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B	497.278	536.406 E3	-7.9	108	0.00	3.85- 4.05
9	AR1232-C	1.102	1.193 E6	-8.3	108	0.00	4.44- 4.64
10	AR1232-D		----------NA----------				
11	AR1232-E	391.139	423.445 E3	-8.3	108	0.00	5.15- 5.35
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1016-A		----------NA----------				
32	AR1016-B		----------NA----------				
33	AR1016-C		----------NA----------				
34	AR1016-D		----------NA----------				
35	AR1016-E		----------NA----------				
36	AR1260-A		----------NA----------				
37	AR1260-B		----------NA----------				
38	AR1260-C		----------NA----------				
39	AR1260-D		----------NA----------				
40	AR1260-E		----------NA----------				
41	AR1262-A	1.389	1.431 E6	-3.0	103	0.00	7.21- 7.41

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3335-ICV3335
Lab FileID: 2G112781.D

42		AR1262-B	1.843	1.931 E6	-4.8	105	0.00	7.76- 7.96
43		AR1262-C	1.678	1.795 E6	-7.0	107	0.00	8.10- 8.30
44		AR1262-D	4.105	4.289 E6	-4.5	104	0.00	8.55- 8.75
45		AR1262-E	2.395	2.555 E6	-6.7	107	0.00	8.99- 9.19
46		AR1268-A		----------NA----------				
47		AR1268-B		----------NA----------				
48		AR1268-C		----------NA----------				
49		AR1268-D		----------NA----------				
50		AR1268-E		----------NA----------				
51	S	Decachlorobiphenyl		----------NA----------				

***** Signal #2 *****

1	S	Tetrachloro-m-xylene		----------NA----------				
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B	267.939	287.902 E3	-7.5	107	0.00	4.82- 5.02
9		AR1232-C	555.626	600.249 E3	-8.0	108	0.00	5.48- 5.68
10		AR1232-D		----------NA----------				
11		AR1232-E	153.223	165.767 E3	-8.2	108	0.00	6.33- 6.53
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1016-A		----------NA----------				
32		AR1016-B		----------NA----------				
33		AR1016-C		----------NA----------				
34		AR1016-D		----------NA----------				
35		AR1016-E		----------NA----------				
36		AR1260-A		----------NA----------				
37		AR1260-B		----------NA----------				
38		AR1260-C		----------NA----------				
39		AR1260-D		----------NA----------				
40		AR1260-E		----------NA----------				
41		AR1262-A	673.601	691.560 E3	-2.7	103	0.00	8.45- 8.65
42		AR1262-B	905.907	945.800 E3	-4.4	104	0.00	9.10- 9.30
43		AR1262-C	846.854	900.610 E3	-6.3	106	0.00	9.54- 9.74
44		AR1262-D	1.745	1.801 E6	-3.2	103	0.00	9.90-10.10
45		AR1262-E	1.068	1.111 E6	-4.0	104	0.00	10.42-10.62
46		AR1268-A		----------NA----------				
47		AR1268-B		----------NA----------				

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3335-ICV3335
Lab FileID: 2G112781.D

```
48     AR1268-C                          ----------NA----------
49     AR1268-D                          ----------NA----------
50     AR1268-E                          ----------NA----------
51 S   Decachlorobiphenyl                ----------NA----------
--------------------------------------------------------------------------
--------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    2g112772.D 2PCB3335.M       Wed Apr 22 15:25:59 2015   RPT1
```

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3335-ICV3335
Lab FileID: 2G112782.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\2G3335\2g112782.D\ECD1A.CH Vial: 16
Signal #2 : C:\msdchem\1\DATA\2G3335\2g112782.D\ECD2B.CH
Acq On    : 22 Apr 2015   2:23 pm                    Operator: dylang
Sample    : icv3335-1000                             Inst    : HP G1530A
Misc      : op83272,G2G3335,16.2,,,10,1              Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e

Method       : C:\MSDCHEM\1\METHODS\2PCB3335.M (Chemstation Integrator)
Title        :
Last Update  : Wed Apr 22 15:15:22 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene		----------NA----------				
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A	861.752	898.404 E3	-4.3	104	0.00	3.85- 4.05
13	AR1242-B	2.049	2.142 E6	-4.5	105	0.00	4.44- 4.64
14	AR1242-C	755.728	788.486 E3	-4.3	104	0.00	4.62- 4.82
15	AR1242-D	799.974	837.647 E3	-4.7	105	0.00	5.15- 5.35
16	AR1242-E	721.717	747.872 E3	-3.6	104	0.00	5.76- 5.96
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1016-A		----------NA----------				
32	AR1016-B		----------NA----------				
33	AR1016-C		----------NA----------				
34	AR1016-D		----------NA----------				
35	AR1016-E		----------NA----------				
36	AR1260-A		----------NA----------				
37	AR1260-B		----------NA----------				
38	AR1260-C		----------NA----------				
39	AR1260-D		----------NA----------				
40	AR1260-E		----------NA----------				
41	AR1262-A		----------NA----------				

Initial Calibration Verification

Job Number: JB94209 **Sample:** G2G3335-ICV3335
Account: PTCNJB PT Consultants **Lab FileID:** 2G112782.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

42		AR1262-B		----------NA----------				
43		AR1262-C		----------NA----------				
44		AR1262-D		----------NA----------				
45		AR1262-E		----------NA----------				
46		AR1268-A	4.014	4.406 E6	-9.8	110	0.00	9.00- 9.20
47		AR1268-B		----------NA----------				
48		AR1268-C	3.542	3.698 E6	-4.4	104	0.00	9.32- 9.52
49		AR1268-D	1.439	1.424 E6	1.0	99	0.00	9.84-10.04
50		AR1268-E	11.370	10.388 E6	8.6	91	0.00	10.24-10.44
51	S	Decachlorobiphenyl		----------NA----------				

***** Signal #2 *****

1	S	Tetrachloro-m-xylene		----------NA----------				
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A	466.124	484.575 E3	-4.0	104	0.00	4.82- 5.02
13		AR1242-B	1.036	1.081 E6	-4.3	104	0.00	5.48- 5.68
14		AR1242-C	412.496	436.691 E3	-5.9	106	0.00	5.67- 5.87
15		AR1242-D	237.846	250.541 E3	-5.3	105	0.00	5.82- 6.02
16		AR1242-E	390.521	402.396 E3	-3.0	103	0.00	6.95- 7.15
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1016-A		----------NA----------				
32		AR1016-B		----------NA----------				
33		AR1016-C		----------NA----------				
34		AR1016-D		----------NA----------				
35		AR1016-E		----------NA----------				
36		AR1260-A		----------NA----------				
37		AR1260-B		----------NA----------				
38		AR1260-C		----------NA----------				
39		AR1260-D		----------NA----------				
40		AR1260-E		----------NA----------				
41		AR1262-A		----------NA----------				
42		AR1262-B		----------NA----------				
43		AR1262-C		----------NA----------				
44		AR1262-D		----------NA----------				
45		AR1262-E		----------NA----------				
46		AR1268-A	1.908	2.061 E6	-8.0	108	0.00	10.42-10.62
47		AR1268-B		----------NA----------				

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3335-ICV3335
Lab FileID: 2G112782.D

48		AR1268-C	1.553	1.600 E6	-3.0	103	0.00	10.85-11.05
49		AR1268-D	635.315	606.082 E3	4.6	95	0.00	11.27-11.47
50		AR1268-E	4.820	4.340 E6	10.0	90	0.00	11.74-11.94
51	S	Decachlorobiphenyl		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2g112772.D 2PCB3335.M Wed Apr 22 15:26:01 2015 RPT1

10.9.13

10

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3335-ICV3335
Lab FileID: 2G112783.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\2G3335\2g112783.D\ECD1A.CH Vial: 17
Signal #2 : C:\msdchem\1\DATA\2G3335\2g112783.D\ECD2B.CH
Acq On    : 22 Apr 2015   2:40 pm                    Operator: dylang
Sample    : icv3335-1000                             Inst    : HP G1530A
Misc      : op83272,G2G3335,16.2,,,10,1              Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e

Method       : C:\MSDCHEM\1\METHODS\2PCB3335.M (Chemstation Integrator)
Title        :
Last Update  : Wed Apr 22 15:15:22 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene		----------NA----------				
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A	438.042	469.917 E3	-7.3	107	0.00	3.85- 4.05
18	AR1248-B	1.175	1.265 E6	-7.7	108	0.00	4.44- 4.64
19	AR1248-C	1.220	1.285 E6	-5.3	105	0.00	4.85- 5.05
20	AR1248-D	1.203	1.295 E6	-7.6	108	0.00	5.15- 5.35
21	AR1248-E	636.020	690.326 E3	-8.5	109	0.00	5.27- 5.47
22	AR1248-F	1.170	1.260 E6	-7.7	108	0.00	5.76- 5.96
23	AR1248-G	1.243	1.348 E6	-8.4	108	0.00	5.63- 6.63
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1016-A		----------NA----------				
32	AR1016-B		----------NA----------				
33	AR1016-C		----------NA----------				
34	AR1016-D		----------NA----------				
35	AR1016-E		----------NA----------				
36	AR1260-A		----------NA----------				
37	AR1260-B		----------NA----------				
38	AR1260-C		----------NA----------				
39	AR1260-D		----------NA----------				
40	AR1260-E		----------NA----------				
41	AR1262-A		----------NA----------				

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3335-ICV3335
Lab FileID: 2G112783.D

42		AR1262-B	----------NA----------						
43		AR1262-C	----------NA----------						
44		AR1262-D	----------NA----------						
45		AR1262-E	----------NA----------						
46		AR1268-A	----------NA----------						
47		AR1268-B	----------NA----------						
48		AR1268-C	----------NA----------						
49		AR1268-D	----------NA----------						
50		AR1268-E	----------NA----------						
51	S	Decachlorobiphenyl	----------NA----------						

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	----------NA----------						
2		AR1221-A	----------NA----------						
3		AR1221-B	----------NA----------						
4		AR1221-C	----------NA----------						
5		AR1221-D	----------NA----------						
6		AR1221-E	----------NA----------						
7		AR1232-A	----------NA----------						
8		AR1232-B	----------NA----------						
9		AR1232-C	----------NA----------						
10		AR1232-D	----------NA----------						
11		AR1232-E	----------NA----------						
12		AR1242-A	----------NA----------						
13		AR1242-B	----------NA----------						
14		AR1242-C	----------NA----------						
15		AR1242-D	----------NA----------						
16		AR1242-E	----------NA----------						
17		AR1248-A	248.724	267.131	E3	-7.4	107	0.00	4.82- 5.02
18		AR1248-B	656.899	701.825	E3	-6.8	107	0.00	5.47- 5.67
19		AR1248-C	372.362	399.610	E3	-7.3	107	0.00	5.94- 6.14
20		AR1248-D	489.731	524.014	E3	-7.0	107	0.00	6.33- 6.53
21		AR1248-E	541.503	582.958	E3	-7.7	108	0.00	6.51- 6.71
22		AR1248-F	669.236	721.346	E3	-7.8	108	0.00	6.95- 7.15
23		AR1248-G	582.654	624.351	E3	-7.2	107	0.00	6.88- 7.88
24		AR1254-A	----------NA----------						
25		AR1254-B	----------NA----------						
26		AR1254-C	----------NA----------						
27		AR1254-D	----------NA----------						
28		AR1254-E	----------NA----------						
29		AR1254-F	----------NA----------						
30		AR1254-G	----------NA----------						
31		AR1016-A	----------NA----------						
32		AR1016-B	----------NA----------						
33		AR1016-C	----------NA----------						
34		AR1016-D	----------NA----------						
35		AR1016-E	----------NA----------						
36		AR1260-A	----------NA----------						
37		AR1260-B	----------NA----------						
38		AR1260-C	----------NA----------						
39		AR1260-D	----------NA----------						
40		AR1260-E	----------NA----------						
41		AR1262-A	----------NA----------						
42		AR1262-B	----------NA----------						
43		AR1262-C	----------NA----------						
44		AR1262-D	----------NA----------						
45		AR1262-E	----------NA----------						
46		AR1268-A	----------NA----------						
47		AR1268-B	----------NA----------						

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3335-ICV3335
Lab FileID: 2G112783.D

```
48     AR1268-C                          ----------NA----------
49     AR1268-D                          ----------NA----------
50     AR1268-E                          ----------NA----------
51 S   Decachlorobiphenyl                ----------NA----------
--------------------------------------------------------------------------
--------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    2g112772.D 2PCB3335.M       Wed Apr 22 15:26:03 2015   RPT1
```

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Sample: G2G3335-ICV3335
Lab FileID: 2G112784.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\2G3335\2g112784.D\ECD1A.CH Vial: 18
Signal #2 : C:\msdchem\1\DATA\2G3335\2g112784.D\ECD2B.CH
Acq On    : 22 Apr 2015   3:05 pm                    Operator: dylang
Sample    : icv3335-1000                             Inst    : HP G1530A
Misc      : op83272,G2G3335,16.2,,,10,1              Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e

Method       : C:\MSDCHEM\1\METHODS\2PCB3335.M (Chemstation Integrator)
Title        :
Last Update  : Thu Apr 23 08:40:41 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
31	AR1016-A	572.228	549.709 E3	3.9	95	0.03	3.52- 3.58
32	AR1016-B	1.019	1.033 E6	-1.4	101	0.03	3.95- 4.01
33	AR1016-C	2.482	2.482 E6	0.0	100	0.03	4.54- 4.60
34	AR1016-D	915.444	918.957 E3	-0.4	101	0.03	4.71- 4.77
35	AR1016-E	0.954	0.925 E6	3.0	98	0.03	5.25- 5.31
36	AR1260-A	2.066	2.064 E6	0.1	100	0.02	7.30- 7.36
37	AR1260-B	1.285	1.079 E6	16.0	83	0.02	7.85- 7.91
38	AR1260-C	1.340	1.194 E6	10.9	88	0.02	8.20- 8.26
39	AR1260-D	3.468	3.122 E6	10.0	87	0.02	8.64- 8.70
40	AR1260-E	2.074	1.883 E6	9.2	90	0.02	8.99- 9.15

***** Signal #2 *****

31	AR1016-A	274.885	261.515 E3	4.9	97	0.02	4.35- 4.41
32	AR1016-B	559.061	557.419 E3	0.3	102	0.02	4.91- 4.97
33	AR1016-C	1.236	1.258 E6	-1.8	101	0.01	5.56- 5.62
34	AR1016-D	491.116	503.942 E3	-2.6	102	0.01	5.75- 5.81
35	AR1016-E	371.574	365.136 E3	1.7	100	0.01	6.42- 6.48
36	AR1260-A	872.468	877.711 E3	-0.6	100	0.01	8.53- 8.59
37	AR1260-B	634.343	544.524 E3	14.2	85	0.01	9.18- 9.24
38	AR1260-C	698.042	655.018 E3	6.2	93	0.01	9.62- 9.68
39	AR1260-D	1.478	1.325 E6	10.4	88	0.01	9.98-10.04
40	AR1260-E	918.817	846.676 E3	7.9	91	0.01	10.52-10.58

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2g112807.D 2PCB3335.M Fri Apr 24 10:50:30 2015 RPT1

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3349-CC3335
Lab FileID: 2G113686.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\2G3349\2g113686.D\ECD1A.CH Vial: 1
Signal #2 : C:\msdchem\1\DATA\2G3349\2g113686.D\ECD2B.CH
Acq On    : 11 May 2015   9:31 am                    Operator: dylang
Sample    : cc3335-1000                              Inst    : HP G1530A
Misc      : op83704,G2G3349,5.0,,,10,1               Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e

Method       : C:\MSDCHEM\1\METHODS\2PCB3335.M (Chemstation Integrator)
Title        :
Last Update  : Wed Apr 22 15:15:22 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	27.151	29.098 E6	-7.2	102	0.00	3.09- 3.15
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1016-A	572.228	556.999 E3	2.7	96	0.00	3.49- 3.55
32	AR1016-B	1.019	1.003 E6	1.6	98	0.00	3.92- 3.98
33	AR1016-C	2.482	2.455 E6	1.1	99	0.00	4.51- 4.57
34	AR1016-D	915.444	895.657 E3	2.2	98	0.00	4.68- 4.74
35	AR1016-E	0.954	0.924 E6	3.1	98	0.00	5.21- 5.27
36	AR1260-A	2.066	2.244 E6	-8.6	109	0.00	7.27- 7.33
37	AR1260-B	1.285	1.301 E6	-1.2	100	0.00	7.82- 7.88
38	AR1260-C	1.340	1.347 E6	-0.5	99	0.00	8.17- 8.23
39	AR1260-D	3.468	3.175 E6	8.4	89	-0.01	8.61- 8.67
40	AR1260-E	2.074	2.161 E6	-4.2	103	-0.01	8.96- 9.12
41	AR1262-A		----------NA----------				

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3349-CC3335
Lab FileID: 2G113686.D

42		AR1262-B		----------NA----------				
43		AR1262-C		----------NA----------				
44		AR1262-D		----------NA----------				
45		AR1262-E		----------NA----------				
46		AR1268-A		----------NA----------				
47		AR1268-B		----------NA----------				
48		AR1268-C		----------NA----------				
49		AR1268-D		----------NA----------				
50		AR1268-E		----------NA----------				
51	S	Decachlorobiphenyl	26.396	22.500 E6	14.8	85	-0.01	10.57-10.63

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	15.322	13.810 E6	9.9	89	0.00	3.68- 3.74
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1016-A	274.885	239.837 E3	12.8	89	0.00	4.33- 4.39
32		AR1016-B	559.061	485.119 E3	13.2	89	0.00	4.89- 4.95
33		AR1016-C	1.236	1.073 E6	13.2	86	0.00	5.54- 5.60
34		AR1016-D	491.116	420.594 E3	14.4	85	0.00	5.73- 5.79
35		AR1016-E	371.574	313.286 E3	15.7	85	0.00	6.40- 6.46
36		AR1260-A	872.468	741.485 E3	15.0	84	0.00	8.51- 8.57
37		AR1260-B	634.343	523.981 E3	17.4	82	0.00	9.16- 9.22
38		AR1260-C	698.042	600.276 E3	14.0	85	-0.01	9.59- 9.65
39		AR1260-D	1.478	1.248 E6	15.6	83	-0.01	9.95-10.01
40		AR1260-E	918.817	826.113 E3	10.1	89	-0.01	10.49-10.55
41		AR1262-A		----------NA----------				
42		AR1262-B		----------NA----------				
43		AR1262-C		----------NA----------				
44		AR1262-D		----------NA----------				
45		AR1262-E		----------NA----------				
46		AR1268-A		----------NA----------				
47		AR1268-B		----------NA----------				

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3349-CC3335
Lab FileID: 2G113686.D

```
48      AR1268-C                          ----------NA----------
49      AR1268-D                          ----------NA----------
50      AR1268-E                          ----------NA----------
51 S    Decachlorobiphenyl      11.302   8.927 E6  21.0#  79  -0.01   12.18-12.24
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    2g112772.D 2PCB3335.M       Mon May 11 14:36:44 2015   RPT1
```

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3349-CC3335
Lab FileID: 2G113697.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\2G3349\2g113697.D\ECD1A.CH Vial: 12
Signal #2 : C:\msdchem\1\DATA\2G3349\2g113697.D\ECD2B.CH
Acq On    : 11 May 2015   1:15 pm                    Operator: dylang
Sample    : cc3335-500                               Inst    : HP G1530A
Misc      : op83785,G2G3349,910,,,10,1               Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e

Method       : C:\MSDCHEM\1\METHODS\2PCB3335.M (Chemstation Integrator)
Title        :
Last Update  : Wed Apr 22 15:15:22 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	27.151	29.146 E6	-7.3	104	0.00	3.09- 3.15
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1016-A	572.228	569.603 E3	0.5	96	0.00	3.49- 3.55
32	AR1016-B	1.019	1.065 E6	-4.5	101	0.00	3.92- 3.98
33	AR1016-C	2.482	2.520 E6	-1.5	101	0.00	4.51- 4.57
34	AR1016-D	915.444	931.341 E3	-1.7	100	0.00	4.68- 4.74
35	AR1016-E	0.954	0.964 E6	-1.0	101	0.00	5.21- 5.27
36	AR1260-A	2.066	2.012 E6	2.6	98	0.00	7.27- 7.33
37	AR1260-B	1.285	1.178 E6	8.3	91	0.00	7.82- 7.88
38	AR1260-C	1.340	1.193 E6	11.0	89	0.00	8.17- 8.23
39	AR1260-D	3.468	3.148 E6	9.2	91	0.00	8.61- 8.67
40	AR1260-E	2.074	1.783 E6	14.0	87	-0.01	8.96- 9.12
41	AR1262-A		----------NA----------				

Continuing Calibration Summary

Job Number: JB94209 **Sample:** G2G3349-CC3335
Account: PTCNJB PT Consultants **Lab FileID:** 2G113697.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

42		AR1262-B		----------NA----------				
43		AR1262-C		----------NA----------				
44		AR1262-D		----------NA----------				
45		AR1262-E		----------NA----------				
46		AR1268-A		----------NA----------				
47		AR1268-B		----------NA----------				
48		AR1268-C		----------NA----------				
49		AR1268-D		----------NA----------				
50		AR1268-E		----------NA----------				
51	S	Decachlorobiphenyl	26.396	28.276 E6	-7.1	106	-0.01	10.57-10.63

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	15.322	12.626 E6	17.6	83	0.00	3.68- 3.74
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1016-A	274.885	233.197 E3	15.2	84	0.00	4.33- 4.39
32		AR1016-B	559.061	459.874 E3	17.7	82	0.00	4.89- 4.95
33		AR1016-C	1.236	0.986 E6	20.2#	79	0.00	5.54- 5.60
34		AR1016-D	491.116	383.645 E3	21.9#	77	0.00	5.73- 5.79
35		AR1016-E	371.574	279.080 E3	24.9#	75	0.00	6.40- 6.46
36		AR1260-A	872.468	612.035 E3	29.9#	69	0.00	8.51- 8.57
37		AR1260-B	634.343	484.020 E3	23.7#	76	0.00	9.16- 9.22
38		AR1260-C	698.042	499.176 E3	28.5#	71	0.00	9.59- 9.65
39		AR1260-D	1.478	1.042 E6	29.5#	70	-0.01	9.95-10.01
40		AR1260-E	918.817	699.924 E3	23.8#	76	-0.01	10.49-10.55
41		AR1262-A		----------NA----------				
42		AR1262-B		----------NA----------				
43		AR1262-C		----------NA----------				
44		AR1262-D		----------NA----------				
45		AR1262-E		----------NA----------				
46		AR1268-A		----------NA----------				
47		AR1268-B		----------NA----------				

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3349-CC3335
Lab FileID: 2G113697.D

```
48      AR1268-C                          ----------NA----------
49      AR1268-D                          ----------NA----------
50      AR1268-E                          ----------NA----------
51 S    Decachlorobiphenyl      11.302   9.585 E6  15.2   83  -0.01   12.18-12.24
--------------------------------------------------------------------------------
--------------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    2g112771.D 2PCB3335.M       Mon May 11 14:36:55 2015   RPT1
```

10.9.17

10

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3349-CC3335
Lab FileID: 2G113702.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\2G3349\2g113702.D\ECD1A.CH Vial: 16
Signal #2 : C:\msdchem\1\DATA\2G3349\2g113702.D\ECD2B.CH
Acq On    : 11 May 2015   3:16 pm                    Operator: dylang
Sample    : cc3335-1000                              Inst    : HP G1530A
Misc      : op83785,G2G3349,970,,,10,50              Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e

Method       : C:\MSDCHEM\1\METHODS\2PCB3335.M (Chemstation Integrator)
Title        :
Last Update  : Wed Apr 22 15:15:22 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	27.151	32.169 E6	-18.5	113	0.00	3.08- 3.14
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1016-A	572.228	636.762 E3	-11.3	110	0.00	3.49- 3.55
32	AR1016-B	1.019	1.113 E6	-9.2	109	0.00	3.92- 3.98
33	AR1016-C	2.482	2.675 E6	-7.8	108	0.00	4.50- 4.56
34	AR1016-D	915.444	987.079 E3	-7.8	108	0.00	4.68- 4.74
35	AR1016-E	0.954	1.027 E6	-7.7	108	-0.01	5.21- 5.27
36	AR1260-A	2.066	2.273 E6	-10.0	110	-0.01	7.26- 7.32
37	AR1260-B	1.285	1.419 E6	-10.4	109	-0.01	7.81- 7.87
38	AR1260-C	1.340	1.425 E6	-6.3	105	-0.01	8.16- 8.22
39	AR1260-D	3.468	3.122 E6	10.0	87	-0.01	8.60- 8.66
40	AR1260-E	2.074	2.118 E6	-2.1	101	-0.02	8.96- 9.12
41	AR1262-A		----------NA----------				

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3349-CC3335
Lab FileID: 2G113702.D

42		AR1262-B		----------NA----------				
43		AR1262-C		----------NA----------				
44		AR1262-D		----------NA----------				
45		AR1262-E		----------NA----------				
46		AR1268-A		----------NA----------				
47		AR1268-B		----------NA----------				
48		AR1268-C		----------NA----------				
49		AR1268-D		----------NA----------				
50		AR1268-E		----------NA----------				
51	S	Decachlorobiphenyl	26.396	24.019 E6	9.0	90	-0.02	10.56-10.62

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	15.322	13.855 E6	9.6	90	0.00	3.67- 3.73
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1016-A	274.885	243.994 E3	11.2	90	0.00	4.33- 4.39
32		AR1016-B	559.061	488.283 E3	12.7	89	0.00	4.89- 4.95
33		AR1016-C	1.236	1.085 E6	12.2	87	0.00	5.54- 5.60
34		AR1016-D	491.116	431.940 E3	12.0	88	0.00	5.73- 5.79
35		AR1016-E	371.574	316.872 E3	14.7	86	-0.01	6.39- 6.45
36		AR1260-A	872.468	714.886 E3	18.1	81	-0.01	8.51- 8.57
37		AR1260-B	634.343	511.516 E3	19.4	80	-0.01	9.16- 9.22
38		AR1260-C	698.042	552.986 E3	20.8#	78	-0.01	9.59- 9.65
39		AR1260-D	1.478	1.156 E6	21.8#	77	-0.01	9.95-10.01
40		AR1260-E	918.817	726.626 E3	20.9#	78	-0.01	10.49-10.55
41		AR1262-A		----------NA----------				
42		AR1262-B		----------NA----------				
43		AR1262-C		----------NA----------				
44		AR1262-D		----------NA----------				
45		AR1262-E		----------NA----------				
46		AR1268-A		----------NA----------				
47		AR1268-B		----------NA----------				

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3349-CC3335
Lab FileID: 2G113702.D

```
48      AR1268-C                          ----------NA----------
49      AR1268-D                          ----------NA----------
50      AR1268-E                          ----------NA----------
51 S    Decachlorobiphenyl      11.302   9.040 E6  20.0#  80  -0.02   12.17-12.23
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    2g112772.D 2PCB3335.M       Mon May 11 15:53:04 2015   RPT1
```

10.9.18

10

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3349-CC3335
Lab FileID: 2G113713.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\2G3349\2g113713.D\ECD1A.CH Vial: 24
Signal #2 : C:\msdchem\1\DATA\2G3349\2g113713.D\ECD2B.CH
Acq On    : 11 May 2015   6:33 pm                    Operator: dylang
Sample    : cc3335-500                               Inst    : HP G1530A
Misc      : op83802,G2G3349,16.6,,,10,1              Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e

Method       : C:\MSDCHEM\1\METHODS\2PCB3335.M (Chemstation Integrator)
Title        :
Last Update  : Wed Apr 22 15:15:22 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	27.151	31.721 E6	-16.8	113	0.00	3.09- 3.15
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1016-A	572.228	639.330 E3	-11.7	108	0.00	3.49- 3.55
32	AR1016-B	1.019	1.190 E6	-16.8	113	0.00	3.92- 3.98
33	AR1016-C	2.482	2.781 E6	-12.0	111	0.00	4.51- 4.57
34	AR1016-D	915.444	1036.071 E3	-13.2	112	0.00	4.68- 4.74
35	AR1016-E	0.954	1.062 E6	-11.3	111	0.00	5.22- 5.28
36	AR1260-A	2.066	2.135 E6	-3.3	104	0.00	7.27- 7.33
37	AR1260-B	1.285	1.409 E6	-9.6	109	0.00	7.82- 7.88
38	AR1260-C	1.340	1.373 E6	-2.5	103	0.00	8.17- 8.23
39	AR1260-D	3.468	3.131 E6	9.7	91	0.00	8.61- 8.67
40	AR1260-E	2.074	2.044 E6	1.4	100	0.00	8.97- 9.13
41	AR1262-A		----------NA----------				

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3349-CC3335
Lab FileID: 2G113713.D

42		AR1262-B		----------NA----------				
43		AR1262-C		----------NA----------				
44		AR1262-D		----------NA----------				
45		AR1262-E		----------NA----------				
46		AR1268-A		----------NA----------				
47		AR1268-B		----------NA----------				
48		AR1268-C		----------NA----------				
49		AR1268-D		----------NA----------				
50		AR1268-E		----------NA----------				
51	S	Decachlorobiphenyl	26.396	22.456 E6	14.9	84	0.00	10.57-10.63

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	15.322	14.180 E6	7.5	93	0.00	3.68- 3.74
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1016-A	274.885	257.816 E3	6.2	93	0.00	4.33- 4.39
32		AR1016-B	559.061	510.259 E3	8.7	91	0.00	4.89- 4.95
33		AR1016-C	1.236	1.071 E6	13.3	86	0.00	5.54- 5.60
34		AR1016-D	491.116	415.691 E3	15.4	83	0.00	5.73- 5.79
35		AR1016-E	371.574	302.795 E3	18.5	82	0.00	6.40- 6.46
36		AR1260-A	872.468	678.330 E3	22.3#	77	0.00	8.52- 8.58
37		AR1260-B	634.343	508.690 E3	19.8	80	0.00	9.17- 9.23
38		AR1260-C	698.042	520.928 E3	25.4#	74	0.00	9.60- 9.66
39		AR1260-D	1.478	1.018 E6	31.1#	68	0.00	9.96-10.02
40		AR1260-E	918.817	781.934 E3	14.9	85	0.00	10.50-10.56
41		AR1262-A		----------NA----------				
42		AR1262-B		----------NA----------				
43		AR1262-C		----------NA----------				
44		AR1262-D		----------NA----------				
45		AR1262-E		----------NA----------				
46		AR1268-A		----------NA----------				
47		AR1268-B		----------NA----------				

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3349-CC3335
Lab FileID: 2G113713.D

```
48      AR1268-C                          ----------NA----------
49      AR1268-D                          ----------NA----------
50      AR1268-E                          ----------NA----------
51 S    Decachlorobiphenyl      11.302   9.389 E6  16.9   81   0.00   12.18-12.24
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    2g112771.D 2PCB3335.M       Tue May 12 11:47:04 2015   RPT1
```

10.9.19

10

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3349-CC3335
Lab FileID: 2G113724.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\2G3349\2g113724.D\ECD1A.CH Vial: 32
Signal #2 : C:\msdchem\1\DATA\2G3349\2g113724.D\ECD2B.CH
Acq On    : 11 May 2015   9:39 pm                    Operator: dylang
Sample    : cc3335-1000                              Inst    : HP G1530A
Misc      : op83802,G2G3349,16.6,,,10,1              Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e

Method       : C:\MSDCHEM\1\METHODS\2PCB3335.M (Chemstation Integrator)
Title        :
Last Update  : Wed Apr 22 15:15:22 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	27.151	34.272 E6	-26.2#	121	0.00	3.09- 3.16
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1016-A	572.228	697.083 E3	-21.8#	121	0.00	3.50- 3.56
32	AR1016-B	1.019	1.189 E6	-16.7	116	0.00	3.93- 3.99
33	AR1016-C	2.482	2.899 E6	-16.8	117	0.00	4.51- 4.57
34	AR1016-D	915.444	1071.402 E3	-17.0	118	0.00	4.69- 4.75
35	AR1016-E	0.954	1.096 E6	-14.9	116	0.00	5.22- 5.28
36	AR1260-A	2.066	2.274 E6	-10.1	110	0.00	7.27- 7.33
37	AR1260-B	1.285	1.369 E6	-6.5	105	0.00	7.82- 7.88
38	AR1260-C	1.340	1.350 E6	-0.7	99	0.00	8.17- 8.23
39	AR1260-D	3.468	3.009 E6	13.2	84	0.00	8.61- 8.67
40	AR1260-E	2.074	2.050 E6	1.2	98	0.00	8.97- 9.13
41	AR1262-A		----------NA----------				

10.9.20

10

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3349-CC3335
Lab FileID: 2G113724.D

42		AR1262-B		----------NA----------				
43		AR1262-C		----------NA----------				
44		AR1262-D		----------NA----------				
45		AR1262-E		----------NA----------				
46		AR1268-A		----------NA----------				
47		AR1268-B		----------NA----------				
48		AR1268-C		----------NA----------				
49		AR1268-D		----------NA----------				
50		AR1268-E		----------NA----------				
51	S	Decachlorobiphenyl	26.396	24.184 E6	8.4	91	0.00	10.57-10.63

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	15.322	15.409 E6	-0.6	100	0.00	3.68- 3.74
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1016-A	274.885	261.727 E3	4.8	97	0.00	4.33- 4.39
32		AR1016-B	559.061	520.749 E3	6.9	95	0.00	4.89- 4.95
33		AR1016-C	1.236	1.145 E6	7.4	92	0.00	5.54- 5.61
34		AR1016-D	491.116	451.727 E3	8.0	92	0.00	5.73- 5.79
35		AR1016-E	371.574	328.745 E3	11.5	90	0.00	6.40- 6.46
36		AR1260-A	872.468	655.088 E3	24.9#	74	0.00	8.52- 8.58
37		AR1260-B	634.343	498.039 E3	21.5#	78	0.00	9.17- 9.23
38		AR1260-C	698.042	536.378 E3	23.2#	76	0.00	9.60- 9.66
39		AR1260-D	1.478	1.204 E6	18.5	80	0.00	9.96-10.02
40		AR1260-E	918.817	703.004 E3	23.5#	75	0.00	10.50-10.56
41		AR1262-A		----------NA----------				
42		AR1262-B		----------NA----------				
43		AR1262-C		----------NA----------				
44		AR1262-D		----------NA----------				
45		AR1262-E		----------NA----------				
46		AR1268-A		----------NA----------				
47		AR1268-B		----------NA----------				

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3349-CC3335
Lab FileID: 2G113724.D

```
48      AR1268-C                          ----------NA----------
49      AR1268-D                          ----------NA----------
50      AR1268-E                          ----------NA----------
51 S    Decachlorobiphenyl      11.302   9.569 E6  15.3   84   0.00   12.18-12.24
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    2g112772.D 2PCB3335.M       Tue May 12 11:47:29 2015   RPT1
```

10.9.20

10

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3349-CC3335
Lab FileID: 2G113735.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\2G3349\2g113735.D\ECD1A.CH Vial: 40
Signal #2 : C:\msdchem\1\DATA\2G3349\2g113735.D\ECD2B.CH
Acq On    : 12 May 2015  12:45 am                    Operator: dylang
Sample    : cc3335-500                               Inst    : HP G1530A
Misc      : op83749,G2G3349,15.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e

Method       : C:\MSDCHEM\1\METHODS\2PCB3335.M (Chemstation Integrator)
Title        :
Last Update  : Wed Apr 22 15:15:22 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	27.151	32.692 E6	-20.4#	116	0.00	3.09- 3.15
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1016-A	572.228	669.896 E3	-17.1	113	0.00	3.49- 3.55
32	AR1016-B	1.019	1.237 E6	-21.4#	118	0.00	3.92- 3.98
33	AR1016-C	2.482	2.914 E6	-17.4	116	0.00	4.51- 4.57
34	AR1016-D	915.444	1086.747 E3	-18.7	117	0.00	4.69- 4.75
35	AR1016-E	0.954	1.124 E6	-17.8	117	0.00	5.22- 5.28
36	AR1260-A	2.066	2.360 E6	-14.2	115	0.00	7.27- 7.33
37	AR1260-B	1.285	1.474 E6	-14.7	114	0.00	7.82- 7.88
38	AR1260-C	1.340	1.458 E6	-8.8	109	0.00	8.17- 8.23
39	AR1260-D	3.468	3.038 E6	12.4	88	0.00	8.61- 8.67
40	AR1260-E	2.074	2.140 E6	-3.2	105	0.00	8.97- 9.13
41	AR1262-A		----------NA----------				

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3349-CC3335
Lab FileID: 2G113735.D

42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				
48		AR1268-C			----------NA----------				
49		AR1268-D			----------NA----------				
50		AR1268-E			----------NA----------				
51	S	Decachlorobiphenyl	26.396	25.087 E6	5.0	94	0.00	10.57-10.63	

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	15.322	15.187 E6	0.9	100	0.00	3.68- 3.74	
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1016-A	274.885	278.099 E3	-1.2	100	0.00	4.33- 4.39	
32		AR1016-B	559.061	550.309 E3	1.6	98	0.00	4.89- 4.95	
33		AR1016-C	1.236	1.181 E6	4.4	95	0.00	5.54- 5.60	
34		AR1016-D	491.116	485.851 E3	1.1	97	0.00	5.73- 5.79	
35		AR1016-E	371.574	337.364 E3	9.2	91	0.00	6.40- 6.46	
36		AR1260-A	872.468	718.707 E3	17.6	81	0.00	8.52- 8.58	
37		AR1260-B	634.343	513.367 E3	19.1	80	0.00	9.17- 9.23	
38		AR1260-C	698.042	561.854 E3	19.5	80	0.00	9.60- 9.66	
39		AR1260-D	1.478	1.124 E6	24.0#	76	0.00	9.96-10.02	
40		AR1260-E	918.817	807.962 E3	12.1	88	0.00	10.50-10.56	
41		AR1262-A			----------NA----------				
42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3349-CC3335
Lab FileID: 2G113735.D

```
48      AR1268-C                          ----------NA----------
49      AR1268-D                          ----------NA----------
50      AR1268-E                          ----------NA----------
51 S    Decachlorobiphenyl      11.302   9.141 E6  19.1   79   0.00   12.18-12.24
---------------------------------------------------------------------------
---------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    2g112771.D 2PCB3335.M       Tue May 12 11:47:06 2015   RPT1
```

10.9.21

10

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3350-CC3335
Lab FileID: 2G113813.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\2G3350\2g113813.D\ECD1A.CH Vial: 42
Signal #2 : C:\msdchem\1\DATA\2G3350\2g113813.D\ECD2B.CH
Acq On    : 13 May 2015   2:04 am                    Operator: dylang
Sample    : cc3335-1000                              Inst    : HP G1530A
Misc      : op83793,G2G3350,300,,,2,1                Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e

Method       : C:\MSDCHEM\1\METHODS\2PCB3335.M (Chemstation Integrator)
Title        :
Last Update  : Wed Apr 22 15:15:22 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	27.151	32.633 E6	-20.2#	115	0.00	3.10- 3.16
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1016-A	572.228	642.951 E3	-12.4	111	0.00	3.50- 3.56
32	AR1016-B	1.019	1.204 E6	-18.2	118	0.00	3.93- 3.99
33	AR1016-C	2.482	2.901 E6	-16.9	117	0.00	4.51- 4.57
34	AR1016-D	915.444	1079.459 E3	-17.9	118	0.00	4.69- 4.75
35	AR1016-E	0.954	1.121 E6	-17.5	118	0.00	5.22- 5.28
36	AR1260-A	2.066	2.518 E6	-21.9#	122	0.00	7.28- 7.34
37	AR1260-B	1.285	1.617 E6	-25.8#	124	0.00	7.82- 7.88
38	AR1260-C	1.340	1.612 E6	-20.3#	119	0.00	8.17- 8.23
39	AR1260-D	3.468	4.196 E6	-21.0#	117	0.00	8.62- 8.68
40	AR1260-E	2.074	2.457 E6	-18.5	117	0.00	8.97- 9.13
41	AR1262-A		----------NA----------				

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3350-CC3335
Lab FileID: 2G113813.D

42		AR1262-B		----------NA----------					
43		AR1262-C		----------NA----------					
44		AR1262-D		----------NA----------					
45		AR1262-E		----------NA----------					
46		AR1268-A		----------NA----------					
47		AR1268-B		----------NA----------					
48		AR1268-C		----------NA----------					
49		AR1268-D		----------NA----------					
50		AR1268-E		----------NA----------					
51	S	Decachlorobiphenyl	26.396	29.803	E6	-12.9	112	0.00	10.57-10.63

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	15.322	15.605	E6	-1.8	101	0.00	3.68- 3.74
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1016-A	274.885	273.198	E3	0.6	101	0.00	4.33- 4.39
32		AR1016-B	559.061	544.238	E3	2.7	100	0.00	4.89- 4.95
33		AR1016-C	1.236	1.225	E6	0.9	99	0.00	5.55- 5.61
34		AR1016-D	491.116	493.485	E3	-0.5	100	0.00	5.74- 5.80
35		AR1016-E	371.574	358.128	E3	3.6	98	0.00	6.40- 6.46
36		AR1260-A	872.468	855.748	E3	1.9	97	0.00	8.52- 8.58
37		AR1260-B	634.343	625.536	E3	1.4	98	0.00	9.17- 9.23
38		AR1260-C	698.042	685.033	E3	1.9	97	0.00	9.60- 9.66
39		AR1260-D	1.478	1.442	E6	2.4	96	0.00	9.96-10.02
40		AR1260-E	918.817	890.049	E3	3.1	95	0.00	10.50-10.56
41		AR1262-A		----------NA----------					
42		AR1262-B		----------NA----------					
43		AR1262-C		----------NA----------					
44		AR1262-D		----------NA----------					
45		AR1262-E		----------NA----------					
46		AR1268-A		----------NA----------					
47		AR1268-B		----------NA----------					

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3350-CC3335
Lab FileID: 2G113813.D

```
48      AR1268-C                          ----------NA----------
49      AR1268-D                          ----------NA----------
50      AR1268-E                          ----------NA----------
51 S    Decachlorobiphenyl      11.302  10.420 E6   7.8   92   0.00   12.18-12.24
---------------------------------------------------------------------------
---------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    2g112772.D 2PCB3335.M       Wed May 13 10:47:40 2015   RPT1
```

10.9.22

10

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3350-CC3335
Lab FileID: 2G113821.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\2G3350\2g113821.D\ECD1A.CH Vial: 47
Signal #2 : C:\msdchem\1\DATA\2G3350\2g113821.D\ECD2B.CH
Acq On    : 13 May 2015   4:19 am                    Operator: dylang
Sample    : cc3335-500                               Inst    : HP G1530A
Misc      : op83793,G2G3350,300,,,2,1                Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e

Method       : C:\MSDCHEM\1\METHODS\2PCB3335.M (Chemstation Integrator)
Title        :
Last Update  : Wed Apr 22 15:15:22 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	27.151	34.275 E6	-26.2#	122	0.00	3.09- 3.15
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1016-A	572.228	684.419 E3	-19.6	115	0.00	3.50- 3.56
32	AR1016-B	1.019	1.297 E6	-27.3#	123	0.00	3.93- 3.99
33	AR1016-C	2.482	3.060 E6	-23.3#	122	0.00	4.51- 4.57
34	AR1016-D	915.444	1142.035 E3	-24.8#	123	0.00	4.69- 4.75
35	AR1016-E	0.954	1.192 E6	-24.9#	124	0.00	5.22- 5.28
36	AR1260-A	2.066	2.600 E6	-25.8#	127	0.00	7.27- 7.33
37	AR1260-B	1.285	1.698 E6	-32.1#	131	0.00	7.82- 7.88
38	AR1260-C	1.340	1.667 E6	-24.4#	124	0.00	8.17- 8.23
39	AR1260-D	3.468	4.293 E6	-23.8#	124	0.00	8.62- 8.68
40	AR1260-E	2.074	2.515 E6	-21.3#	123	0.00	8.97- 9.13
41	AR1262-A		----------NA----------				

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3350-CC3335
Lab FileID: 2G113821.D

42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				
48		AR1268-C			----------NA----------				
49		AR1268-D			----------NA----------				
50		AR1268-E			----------NA----------				
51	S	Decachlorobiphenyl	26.396	32.114 E6	-21.7#	121	0.00	10.57-10.63	

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	15.322	16.106 E6	-5.1	106	0.00	3.68- 3.74	
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1016-A	274.885	297.333 E3	-8.2	107	0.00	4.33- 4.39	
32		AR1016-B	559.061	625.153 E3	-11.8	111	0.00	4.90- 4.96	
33		AR1016-C	1.236	1.287 E6	-4.1	103	0.00	5.54- 5.60	
34		AR1016-D	491.116	525.161 E3	-6.9	105	0.00	5.74- 5.80	
35		AR1016-E	371.574	381.669 E3	-2.7	103	0.00	6.40- 6.46	
36		AR1260-A	872.468	920.561 E3	-5.5	104	0.00	8.52- 8.58	
37		AR1260-B	634.343	672.629 E3	-6.0	105	0.00	9.17- 9.23	
38		AR1260-C	698.042	726.013 E3	-4.0	104	0.00	9.60- 9.66	
39		AR1260-D	1.478	1.585 E6	-7.2	107	0.00	9.96-10.02	
40		AR1260-E	918.817	923.987 E3	-0.6	100	0.00	10.50-10.56	
41		AR1262-A			----------NA----------				
42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3350-CC3335
Lab FileID: 2G113821.D

```
48      AR1268-C                          ----------NA----------
49      AR1268-D                          ----------NA----------
50      AR1268-E                          ----------NA----------
51 S    Decachlorobiphenyl      11.302  11.161 E6   1.2   97   0.00   12.18-12.24
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    2g112771.D 2PCB3335.M       Wed May 13 10:47:51 2015   RPT1
```

10.9.23

10

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3351-CC3335
Lab FileID: 2G113833.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\2G3351\2g113833.D\ECD1A.CH Vial: 57
Signal #2 : C:\msdchem\1\DATA\2G3351\2g113833.D\ECD2B.CH
Acq On    : 13 May 2015  12:58 pm                    Operator: dylang
Sample    : cc3335-500                               Inst    : HP G1530A
Misc      : op83766,G2G3351,15.1,,,10,1              Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e

Method       : C:\MSDCHEM\1\METHODS\2PCB3335.M (Chemstation Integrator)
Title        :
Last Update  : Wed Apr 22 15:15:22 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	27.151	30.772 E6	-13.3	109	0.00	3.09- 3.15
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1016-A	572.228	631.074 E3	-10.3	106	0.00	3.49- 3.55
32	AR1016-B	1.019	1.193 E6	-17.1	114	0.00	3.92- 3.98
33	AR1016-C	2.482	2.858 E6	-15.1	114	0.00	4.51- 4.57
34	AR1016-D	915.444	1100.751 E3	-20.2#	118	0.00	4.68- 4.74
35	AR1016-E	0.954	1.080 E6	-13.2	113	0.00	5.22- 5.28
36	AR1260-A	2.066	2.282 E6	-10.5	111	0.00	7.27- 7.33
37	AR1260-B	1.285	1.540 E6	-19.8	119	0.00	7.82- 7.88
38	AR1260-C	1.340	1.488 E6	-11.0	111	0.00	8.17- 8.23
39	AR1260-D	3.468	3.678 E6	-6.1	106	0.00	8.61- 8.67
40	AR1260-E	2.074	2.187 E6	-5.4	107	0.00	8.97- 9.13
41	AR1262-A		----------NA----------				

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3351-CC3335
Lab FileID: 2G113833.D

42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				
48		AR1268-C			----------NA----------				
49		AR1268-D			----------NA----------				
50		AR1268-E			----------NA----------				
51	S	Decachlorobiphenyl	26.396	27.660 E6	-4.8	104	0.00	10.57-10.63	

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	15.322	14.620 E6	4.6	96	0.00	3.68- 3.74	
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1016-A	274.885	270.261 E3	1.7	97	0.00	4.33- 4.39	
32		AR1016-B	559.061	544.470 E3	2.6	97	0.00	4.89- 4.95	
33		AR1016-C	1.236	1.202 E6	2.8	96	0.00	5.54- 5.60	
34		AR1016-D	491.116	490.135 E3	0.2	98	0.00	5.73- 5.79	
35		AR1016-E	371.574	345.200 E3	7.1	93	0.00	6.40- 6.46	
36		AR1260-A	872.468	798.003 E3	8.5	90	0.00	8.51- 8.57	
37		AR1260-B	634.343	583.729 E3	8.0	91	0.00	9.16- 9.22	
38		AR1260-C	698.042	614.015 E3	12.0	88	-0.01	9.59- 9.65	
39		AR1260-D	1.478	1.292 E6	12.6	87	-0.01	9.96-10.02	
40		AR1260-E	918.817	780.988 E3	15.0	85	-0.01	10.50-10.56	
41		AR1262-A			----------NA----------				
42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3351-CC3335
Lab FileID: 2G113833.D

```
48      AR1268-C                            ----------NA----------
49      AR1268-D                            ----------NA----------
50      AR1268-E                            ----------NA----------
51 S    Decachlorobiphenyl      11.302   9.408 E6  16.8   82  -0.01   12.18-12.24
--------------------------------------------------------------------------------
--------------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    2g112771.D 2PCB3335.M       Wed May 13 13:14:25 2015   RPT1
```

10.9.24

10

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3351-CC3335
Lab FileID: 2G113839.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\2G3351\2g113839.D\ECD1A.CH Vial: 62
Signal #2 : C:\msdchem\1\DATA\2G3351\2g113839.D\ECD2B.CH
Acq On    : 13 May 2015   3:00 pm                    Operator: dylang
Sample    : cc3335-1000                              Inst    : HP G1530A
Misc      : op83793,G2G3351,300,,,2,1                Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e

Method       : C:\MSDCHEM\1\METHODS\2PCB3335.M (Chemstation Integrator)
Title        :
Last Update  : Wed Apr 22 15:15:22 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	27.151	31.309 E6	-15.3	110	0.00	3.09- 3.15
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1016-A	572.228	618.772 E3	-8.1	107	0.00	3.49- 3.55
32	AR1016-B	1.019	1.175 E6	-15.3	115	0.00	3.92- 3.98
33	AR1016-C	2.482	2.827 E6	-13.9	114	0.00	4.51- 4.57
34	AR1016-D	915.444	1041.852 E3	-13.8	114	0.00	4.68- 4.74
35	AR1016-E	0.954	1.092 E6	-14.5	115	0.00	5.21- 5.27
36	AR1260-A	2.066	2.488 E6	-20.4#	121	-0.01	7.27- 7.33
37	AR1260-B	1.285	1.618 E6	-25.9#	124	-0.01	7.82- 7.88
38	AR1260-C	1.340	1.599 E6	-19.3	118	-0.01	8.16- 8.22
39	AR1260-D	3.468	4.219 E6	-21.7#	118	-0.01	8.61- 8.67
40	AR1260-E	2.074	2.446 E6	-17.9	117	-0.01	8.96- 9.12
41	AR1262-A		----------NA----------				

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3351-CC3335
Lab FileID: 2G113839.D

42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				
48		AR1268-C			----------NA----------				
49		AR1268-D			----------NA----------				
50		AR1268-E			----------NA----------				
51	S	Decachlorobiphenyl	26.396	31.694	E6	-20.1#	119	-0.01	10.57-10.63

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	15.322	15.256	E6	0.4	99	0.00	3.68- 3.74
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1016-A	274.885	271.472	E3	1.2	101	0.00	4.33- 4.39
32		AR1016-B	559.061	574.433	E3	-2.7	105	0.00	4.89- 4.95
33		AR1016-C	1.236	1.218	E6	1.5	98	0.00	5.54- 5.60
34		AR1016-D	491.116	490.772	E3	0.1	100	0.00	5.73- 5.79
35		AR1016-E	371.574	361.940	E3	2.6	99	0.00	6.39- 6.45
36		AR1260-A	872.468	866.321	E3	0.7	98	-0.01	8.51- 8.57
37		AR1260-B	634.343	636.976	E3	-0.4	100	-0.01	9.16- 9.22
38		AR1260-C	698.042	686.213	E3	1.7	97	-0.01	9.59- 9.65
39		AR1260-D	1.478	1.515	E6	-2.5	101	-0.01	9.96-10.02
40		AR1260-E	918.817	894.454	E3	2.7	96	-0.01	10.49-10.55
41		AR1262-A			----------NA----------				
42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G2G3351-CC3335
Lab FileID: 2G113839.D

```
48      AR1268-C                          ----------NA----------
49      AR1268-D                          ----------NA----------
50      AR1268-E                          ----------NA----------
51 S    Decachlorobiphenyl      11.302  10.733 E6   5.0   95  -0.01   12.18-12.24
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    2g112772.D 2PCB3335.M       Wed May 13 15:23:51 2015   RPT1
```

10.9.25

10

Initial Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G4G1462-ICC1462
Lab FileID: 4G55795.D

Response Factor Report GC4G

Method : C:\MSDCHEM\1\METHODS\4PST1462.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Thu May 07 09:38:46 2015
Response via : Initial Calibration

Calibration Files
2 =4g55792.D 5 =4g55793.D 10 =4g55794.D 25 =4g55795.D
50 =4g55796.D 100 =4g55798.D 1 =4g55791.D 75 =4g55797.D

Compound	2	5	10	25	50	100	1	75	Avg	%RSD
1) I 1-bromo-2-nitrobenzen					ISTD					
2) Tetrachloro-	0.841	0.817	0.799	0.823	0.867	0.903	0.928	0.895	0.859	5.42
3) alpha-BHC	0.925	0.933	0.950	1.059	1.205	1.324	1.009	1.291	1.087	15.05
4) gamma-BHC	0.963	0.943	0.953	1.044	1.163	1.259	1.083	1.232	1.080	11.71
5) Heptachlor	1.005	0.960	0.939	0.994	1.087	1.162	1.049	1.141	1.042	7.88
6) beta-BHC	0.548	0.511	0.501	0.501	0.519	0.528	0.562	0.527	0.525	4.14
7) delta-BHC	0.856	0.805	0.817	0.900	1.018	1.120	0.934	1.094	0.943	12.93
8) Aldrin	0.829	0.818	0.818	0.877	0.975	1.057	0.894	1.031	0.912	10.57
9) Heptachlor E	0.871	0.851	0.831	0.868	0.934	0.981	0.914	0.963	0.902	6.05
10) gamma-Chlord	0.969	0.863	0.844	0.871	0.934	0.995	0.888	0.972	0.917	6.28
11) alpha-Chlord	0.858	0.845	0.828	0.861	0.922	0.973	0.979	0.957	0.903	6.85
12) Endosulfan I	0.805	0.784	0.773	0.805	0.867	0.913	0.858	0.897	0.838	6.30
13) 4,4'-DDE	0.736	0.715	0.715	0.774	0.865	0.948	0.774	0.917	0.805	11.43
14) Dieldrin	0.812	0.805	0.802	0.845	0.933	1.003	0.876	0.978	0.882	9.09
15) Endrin	0.838	0.750	0.753	0.783	0.863	0.924	0.991	0.902	0.850	10.15
16) 4,4'-DDD	0.659	0.634	0.626	0.656	0.727	0.786	1.037	0.763	0.736	18.39
17) Endosulfan I	0.775	0.746	0.742	0.758	0.813	0.851	1.101	0.836	0.828	14.24
18) 4,4'-DDT	0.627	0.611	0.620	0.668	0.736	0.802	0.703	0.779	0.693	10.71
19) Endrin Aldeh	0.729	0.648	0.642	0.629	0.663	0.679	0.675	0.670	0.667	4.58
20) Endosulfan S	0.682	0.638	0.621	0.638	0.675	0.698	0.759	0.690	0.675	6.52
21) Methoxychlor	0.395	0.406	0.410	0.415	0.433	0.437	0.439	0.438	0.422	4.09
22) Mirex	0.800	0.756	0.719	0.740	0.740	0.697	1.173	0.703	0.791	19.96
23) Endrin Keton	0.805	0.744	0.740	0.762	0.809	0.841	0.775	0.828	0.788	4.86
24) Decachlorobi	1.029	0.748	0.718	0.694	0.704	0.695	1.008	0.698	0.787	18.32
25) I 1-bromo-2-nitrobenzen					ISTD					
26) Toxaphene{A}					0.018				0.018	0.00
27) Toxaphene{B}					0.049				0.049	0.00
28) Toxaphene{C}					0.036				0.036	0.00
29) Toxaphene{D}					0.026				0.026	0.00
30) Toxaphene{E}					0.029				0.029	0.00
31) I 1-bromo-2-nitrobenzen					ISTD					
32) Chlordane {A					0.029				0.029	0.00
33) Chlordane {B					0.040				0.040	0.00
34) Chlordane {C					0.128				0.128	0.00
35) Chlordane {D					0.200				0.200	0.00
36) Chlordane {E					0.029				0.029	0.00

Signal #2

1) I 1-bromo-2-nitrobenzen					ISTD					
2) Tetrachloro-	0.843	0.804	0.801	0.832	0.887	0.917	0.877	0.909	0.859	5.27
3) alpha-BHC	0.973	0.952	1.001	1.123	1.283	1.389	0.976	1.349	1.131	16.21
4) gamma-BHC	0.951	0.935	0.976	1.077	1.209	1.295	0.976	1.263	1.085	13.72

Initial Calibration Summary

Job Number: JB94209 **Sample:** G4G1462-ICC1462
Account: PTCNJB PT Consultants **Lab FileID:** 4G55795.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

5)	Heptachlor	0.813	0.797	0.809	0.876	0.970	1.051	0.932	1.017	0.908	10.93
6)	beta-BHC	0.523	0.504	0.493	0.504	0.527	0.534	0.564	0.531	0.523	4.28
7)	delta-BHC	0.814	0.789	0.824	0.930	1.055	1.146	0.793	1.113	0.933	16.17
8)	Aldrin	0.884	0.840	0.854	0.927	1.034	1.113	0.931	1.084	0.959	10.99
9)	Heptachlor E	0.889	0.861	0.875	0.909	0.989	1.029	0.887	1.012	0.931	7.24
10)	gamma-Chlord	0.910	0.853	0.864	0.912	0.988	1.051	0.930	1.021	0.941	7.67
11)	alpha-Chlord	0.924	0.863	0.861	0.906	0.978	1.019	0.878	1.000	0.929	6.78
12)	Endosulfan I	0.854	0.797	0.801	0.837	0.906	0.946	0.840	0.929	0.864	6.59
13)	4,4'-DDE	0.803	0.742	0.743	0.810	0.909	0.984	0.800	0.950	0.842	11.05
14)	Dieldrin	0.841	0.809	0.818	0.877	0.970	1.034	0.887	1.008	0.905	9.66
15)	Endrin	0.832	0.729	0.734	0.783	0.857	0.900	0.842	0.884	0.820	7.91
16)	4,4'-DDD	0.667	0.620	0.626	0.672	0.743	0.794	0.736	0.772	0.704	9.41
17)	Endosulfan I	0.856	0.742	0.744	0.780	0.837	0.869	0.883	0.854	0.821	6.91
18)	4,4'-DDT	0.449	0.449	0.480	0.532	0.608	0.675	0.672	0.645	0.564	17.36
19)	Endrin Aldeh	0.643	0.606	0.601	0.611	0.648	0.657	0.748	0.649	0.645	7.28
20)	Endosulfan S	0.623	0.618	0.616	0.640	0.684	0.704	0.686	0.694	0.658	5.67
21)	Methoxychlor	0.232	0.277	0.291	0.313	0.335	0.347	0.331	0.342	0.309	12.93
22)	Mirex	0.722	0.703	0.693	0.721	0.726	0.683	0.782	0.686	0.714	4.49
23)	Endrin Keton	0.748	0.690	0.694	0.727	0.777	0.801	0.779	0.787	0.750	5.71
24)	Decachlorobi	0.632	0.618	0.610	0.611	0.622	0.609	0.940	0.612	0.657	17.47

25) I 1-bromo-2-nitrobenzen ----------ISTD----------

26)	Toxaphene{A}	0.023	0.023	0.00
27)	Toxaphene{B}	0.027	0.027	0.00
28)	Toxaphene{C}	0.046	0.046	0.00
29)	Toxaphene{D}	0.027	0.027	0.00
30)	Toxaphene{E}	0.022	0.022	0.00

31) I 1-bromo-2-nitrobenzen ----------ISTD----------

32)	Chlordane {A	0.031	0.031	0.00
33)	Chlordane {B	0.039	0.039	0.00
34)	Chlordane {C	0.128	0.128	0.00
35)	Chlordane {D	0.206	0.206	0.00
36)	Chlordane {E	0.028	0.028	0.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

4PST1462.M Thu May 07 10:14:05 2015 RPT1

10.9.26 10

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G4G1462-ICV1462
Lab FileID: 4G55801.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\DATA\4G1462\4g55801.D\ECD1A.ch Vial: 13
Signal #2 : C:\msdchem\1\DATA\4G1462\4g55801.D\ECD2B.ch
Acq On : 6 May 2015 2:41 pm Operator: yvelandd
Sample : icv1462-25 Inst : GC4G
Misc : op83565,g4g1462,15.2,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\4PST1462.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Thu May 07 09:38:46 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	95	0.00	1.75- 1.81
3	A	alpha-BHC	1.087	1.048	3.6	94	0.00	2.57- 2.63
4	MA	gamma-BHC	1.080	1.033	4.4	94	0.00	2.82- 2.88
5	MA	Heptachlor	1.042	1.023	1.8	98	0.00	3.26- 3.32
6	B	beta-BHC	0.525	0.521	0.8	99	0.00	2.88- 2.94
7	B	delta-BHC	0.943	0.852	9.7	90	0.00	3.04- 3.10
8	MB	Aldrin	0.912	0.931	-2.1	101	0.00	3.56- 3.62
9	B	Heptachlor Epoxide	0.902	0.901	0.1	99	0.00	4.20- 4.26
10	B	gamma-Chlordane	0.917	0.924	-0.8	101	0.00	4.36- 4.42
11	B	alpha-Chlordane	0.903	0.901	0.2	100	0.00	4.51- 4.57
12	A	Endosulfan I	0.838	0.825	1.6	98	0.00	4.68- 4.74
13	B	4,4'-DDE	0.805	0.822	-2.1	101	0.00	4.62- 4.68
14	MA	Dieldrin	0.882	0.883	-0.1	99	0.00	4.98- 5.04
15	MA	Endrin	0.850	0.848	0.2	103	0.00	5.29- 5.35
16	A	4,4'-DDD	0.736	0.695	5.6	101	0.00	5.40- 5.46
17	B	Endosulfan II	0.828	0.804	2.9	101	0.00	5.59- 5.65
18	MA	4,4'-DDT	0.693	0.698	-0.7	100	0.00	5.81- 5.87
19	B	Endrin Aldehyde	0.667	0.706	-5.8	107	0.00	6.19- 6.25
20	B	Endosulfan Sulfate	0.675	0.673	0.3	100	0.00	6.85- 6.91
21	A	Methoxychlor	0.422	0.448	-6.2	103	0.00	6.57- 6.63
23	B	Endrin Ketone	0.788	0.837	-6.2	105	0.00	7.28- 7.34

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	94	0.00	1.95- 2.01
3	A	alpha-BHC	1.131	1.125	0.5	95	0.00	3.16- 3.22
4	MA	gamma-BHC	1.085	1.074	1.0	94	0.00	3.55- 3.61
5	MA	Heptachlor	0.908	0.942	-3.7	102	0.00	4.08- 4.14
6	B	beta-BHC	0.523	0.534	-2.1	100	0.00	3.62- 3.68
7	B	delta-BHC	0.933	0.901	3.4	92	0.00	3.98- 4.04
8	MB	Aldrin	0.959	1.006	-4.9	102	0.00	4.50- 4.56
9	B	Heptachlor Epoxide	0.931	0.967	-3.9	101	0.00	5.27- 5.33
10	B	gamma-Chlordane	0.941	0.987	-4.9	102	0.00	5.54- 5.60
11	B	alpha-Chlordane	0.929	0.959	-3.2	100	0.00	5.76- 5.82
12	A	Endosulfan I	0.864	0.870	-0.7	98	0.00	5.85- 5.91
13	B	4,4'-DDE	0.842	0.873	-3.7	102	0.00	6.01- 6.07
14	MA	Dieldrin	0.905	0.940	-3.9	101	0.00	6.27- 6.33

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G4G1462-ICV1462
Lab FileID: 4G55801.D

15	MA	Endrin	0.820	0.851	-3.8	103	0.00	6.75- 6.81
16	A	4,4'-DDD	0.704	0.722	-2.6	101	0.00	6.93- 6.99
17	B	Endosulfan II	0.821	0.839	-2.2	102	0.00	7.09- 7.15
18	MA	4,4'-DDT	0.564	0.585	-3.7	104	0.00	7.45- 7.51
19	B	Endrin Aldehyde	0.645	0.696	-7.9	108	0.00	7.65- 7.71
20	B	Endosulfan Sulfate	0.658	0.685	-4.1	101	0.00	8.11- 8.17
21	A	Methoxychlor	0.309	0.345	-11.7	104	0.00	8.68- 8.74
23	B	Endrin Ketone	0.750	0.811	-8.1	105	0.00	9.06- 9.12

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g55795.D 4PST1462.M Thu May 07 10:11:21 2015 RPT1

10.9.27
10

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G4G1462-ICV1462
Lab FileID: 4G55805.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1462\4g55805.D\ECD1A.ch  Vial: 14
Signal #2 : C:\msdchem\1\DATA\4G1462\4g55805.D\ECD2B.ch
Acq On    :  6 May 2015   4:46 pm                    Operator: yvelandd
Sample    : icv1462-25                               Inst    : GC4G
Misc      : op83565,g4g1462,15.2,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1462.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Thu May 07 09:38:46 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.76- 1.82
22	Mirex	0.791	0.751	5.1	102	0.02	6.74- 6.80

***** Signal #2 *****

1 I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.94- 2.00
22	Mirex	0.714	0.749	-4.9	105	0.00	8.99- 9.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g55795.D 4PST1462.M Thu May 07 10:11:23 2015 RPT1

10.9.28 10

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G4G1462-ICV1462
Lab FileID: 4G55806.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1462\4g55806.D\ECD1A.ch  Vial: 15
Signal #2 : C:\msdchem\1\DATA\4G1462\4g55806.D\ECD2B.ch
Acq On    :  6 May 2015   5:00 pm                    Operator: yvelandd
Sample    : icv1462-500                              Inst    : GC4G
Misc      : op83565,g4g1462,15.2,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1462.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Thu May 07 09:38:46 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	91	0.00	1.69- 1.89
26	L8	Toxaphene{A}	0.018	0.019	-5.6	100	0.00	4.93- 5.13
27	L8	Toxaphene{B}	0.049	0.052	-6.1	96	0.00	5.52- 5.72
28	L8	Toxaphene{C}	0.036	0.036	0.0	91	0.00	5.69- 5.89
29	L8	Toxaphene{D}	0.026	0.030	-15.4	106	0.00	6.01- 6.21
30	L8	Toxaphene{E}	0.029	0.031	-6.9	96	0.00	6.64- 6.84

***** Signal #2 *****

25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	93	0.00	1.88- 2.08
26	L8	Toxaphene{A}	0.023	0.027	-17.4	109	0.00	6.16- 6.36
27	L8	Toxaphene{B}	0.027	0.031	-14.8	106	0.00	7.00- 7.20
28	L8	Toxaphene{C}	0.046	0.052	-13.0	106	0.00	7.15- 7.35
29	L8	Toxaphene{D}	0.027	0.031	-14.8	108	0.00	7.58- 7.78
30	L8	Toxaphene{E}	0.022	0.024	-9.1	105	0.00	8.47- 8.67

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g55796.D 4PST1462.M Thu May 07 10:11:57 2015 RPT1

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Sample: G4G1462-ICV1462
Lab FileID: 4G55807.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1462\4g55807.D\ECD1A.ch  Vial: 16
Signal #2 : C:\msdchem\1\DATA\4G1462\4g55807.D\ECD2B.ch
Acq On    :  6 May 2015   5:15 pm                    Operator: yvelandd
Sample    : icv1462-500                              Inst    : GC4G
Misc      : op83565,g4g1462,15.2,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1462.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Thu May 07 09:38:46 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
31 I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	102	0.00	1.69- 1.89
32	Chlordane {A}	0.029	0.030	-3.4	107	0.00	3.11- 3.31
33	Chlordane {B}	0.040	0.036	10.0	93	0.00	3.61- 3.81
34	Chlordane {C}	0.128	0.111	13.3	88	0.00	4.29- 4.49
35	Chlordane {D}	0.200	0.178	11.0	91	0.00	4.44- 4.64
36	Chlordane {E}	0.029	0.026	10.3	92	0.00	5.44- 5.64

***** Signal #2 *****

31 I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	102	0.00	1.88- 2.08
32	Chlordane {A}	0.031	0.033	-6.5	109	0.00	3.82- 4.02
33	Chlordane {B}	0.039	0.036	7.7	94	0.00	4.60- 4.80
34	Chlordane {C}	0.128	0.112	12.5	89	0.00	5.47- 5.67
35	Chlordane {D}	0.206	0.183	11.2	91	0.00	5.69- 5.89
36	Chlordane {E}	0.028	0.025	10.7	91	0.00	7.10- 7.30

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g55796.D 4PST1462.M Thu May 07 10:11:59 2015 RPT1

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G4G1469-CC1462
Lab FileID: 4G56084.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1469\4g56084.D\ECD1A.ch  Vial: 2
Signal #2 : C:\msdchem\1\DATA\4G1469\4g56084.D\ECD2B.ch
Acq On    : 14 May 2015   7:53 am                    Operator: rebeccak
Sample    : cc1462-25                                Inst    : GC4G
Misc      : op83888,g4g1469,15.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1462.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Thu May 14 10:13:14 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.74- 1.80
2	SAB	Tetrachloro-m-xylene	0.859	0.815	5.1	103	0.00	2.18- 2.24
3	A	alpha-BHC	1.087	1.126	-3.6	110	0.00	2.57- 2.63
4	MA	gamma-BHC	1.080	1.095	-1.4	109	0.00	2.82- 2.88
5	MA	Heptachlor	1.042	1.025	1.6	107	0.00	3.25- 3.31
6	B	beta-BHC	0.525	0.502	4.4	104	0.00	2.88- 2.94
7	B	delta-BHC	0.943	0.941	0.2	109	0.00	3.04- 3.10
8	MB	Aldrin	0.912	0.889	2.5	105	0.00	3.55- 3.61
9	B	Heptachlor Epoxide	0.902	0.858	4.9	103	0.00	4.20- 4.26
10	B	gamma-Chlordane	0.917	0.828	9.7	99	0.00	4.35- 4.41
11	B	alpha-Chlordane	0.903	0.858	5.0	104	0.00	4.51- 4.57
12	A	Endosulfan I	0.838	0.801	4.4	103	0.00	4.67- 4.73
13	B	4,4'-DDE	0.805	0.774	3.9	104	0.00	4.62- 4.68
14	MA	Dieldrin	0.882	0.840	4.8	103	0.00	4.98- 5.04
15	MA	Endrin	0.850	0.806	5.2	107	0.00	5.28- 5.34
16	A	4,4'-DDD	0.736	0.668	9.2	106	0.00	5.40- 5.46
17	B	Endosulfan II	0.828	0.754	8.9	103	0.00	5.59- 5.65
18	MA	4,4'-DDT	0.693	0.668	3.6	104	0.00	5.81- 5.87
19	B	Endrin Aldehyde	0.667	0.624	6.4	103	0.00	6.19- 6.25
20	B	Endosulfan Sulfate	0.675	0.675	0.0	110	0.00	6.84- 6.90
21	A	Methoxychlor	0.422	0.407	3.6	102	0.00	6.57- 6.63
22		Mirex	0.791	0.689	12.9	97	0.00	6.71- 6.77
23	B	Endrin Ketone	0.788	0.829	-5.2	113	0.00	7.27- 7.33
24	SA	Decachlorobiphenyl	0.787	0.701	10.9	105	0.00	9.08- 9.14

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.94- 2.00
2	SAB	Tetrachloro-m-xylene	0.859	0.846	1.5	102	0.00	2.59- 2.65
3	A	alpha-BHC	1.131	1.159	-2.5	104	0.00	3.16- 3.22
4	MA	gamma-BHC	1.085	1.052	3.0	98	0.00	3.54- 3.60
5	MA	Heptachlor	0.908	1.030	-13.4	118	0.00	4.07- 4.13
6	B	beta-BHC	0.523	0.472	9.8	94	0.00	3.62- 3.68
7	B	delta-BHC	0.933	0.960	-2.9	104	0.00	3.98- 4.04
8	MB	Aldrin	0.959	0.914	4.7	99	0.00	4.49- 4.55
9	B	Heptachlor Epoxide	0.931	0.870	6.6	96	0.00	5.27- 5.33
10	B	gamma-Chlordane	0.941	0.869	7.7	96	0.00	5.54- 5.60
11	B	alpha-Chlordane	0.929	0.847	8.8	94	0.00	5.75- 5.81
12	A	Endosulfan I	0.864	0.799	7.5	96	0.00	5.85- 5.91

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G4G1469-CC1462
Lab FileID: 4G56084.D

13	B	4,4'-DDE	0.842	0.769	8.7	96	0.00	6.01- 6.07
14	MA	Dieldrin	0.905	0.835	7.7	96	0.00	6.27- 6.33
15	MA	Endrin	0.820	0.775	5.5	100	0.00	6.75- 6.81
16	A	4,4'-DDD	0.704	0.658	6.5	99	0.00	6.93- 6.99
17	B	Endosulfan II	0.821	0.737	10.2	95	0.00	7.09- 7.15
18	MA	4,4'-DDT	0.564	0.554	1.8	105	0.00	7.45- 7.51
19	B	Endrin Aldehyde	0.645	0.604	6.4	100	0.00	7.65- 7.71
20	B	Endosulfan Sulfate	0.658	0.659	-0.2	104	0.00	8.11- 8.17
21	A	Methoxychlor	0.309	0.326	-5.5	105	0.00	8.68- 8.74
22		Mirex	0.714	0.647	9.4	90	0.00	8.99- 9.05
23	B	Endrin Ketone	0.750	0.760	-1.3	105	0.00	9.06- 9.12
24	SA	Decachlorobiphenyl	0.657	0.509	22.5#	84	0.00	10.76-10.82

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g55795.D 4PST1462.M Thu May 14 11:05:58 2015 RPT1

10.9.31

10

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G4G1469-CC1462
Lab FileID: 4G56106.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1469\4g56106.D\ECD1A.ch  Vial: 2
Signal #2 : C:\msdchem\1\DATA\4G1469\4g56106.D\ECD2B.ch
Acq On    : 14 May 2015   2:59 pm                    Operator: yvelandd
Sample    : cc1462-25                                Inst    : GC4G
Misc      : op83920,g4g1469,15.9,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1462.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Thu May 14 15:13:35 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.74- 1.80
2	SAB	Tetrachloro-m-xylene	0.859	0.814	5.2	100	0.00	2.19- 2.25
3	A	alpha-BHC	1.087	1.100	-1.2	105	0.00	2.57- 2.63
4	MA	gamma-BHC	1.080	1.072	0.7	104	0.00	2.82- 2.88
5	MA	Heptachlor	1.042	1.036	0.6	106	0.00	3.26- 3.32
6	B	beta-BHC	0.525	0.500	4.8	101	0.00	2.88- 2.94
7	B	delta-BHC	0.943	0.953	-1.1	107	0.00	3.05- 3.11
8	MB	Aldrin	0.912	0.891	2.3	103	0.00	3.56- 3.62
9	B	Heptachlor Epoxide	0.902	0.846	6.2	99	0.00	4.21- 4.27
10	B	gamma-Chlordane	0.917	0.845	7.9	98	0.00	4.36- 4.42
11	B	alpha-Chlordane	0.903	0.865	4.2	102	0.00	4.52- 4.58
12	A	Endosulfan I	0.838	0.817	2.5	103	0.00	4.69- 4.75
13	B	4,4'-DDE	0.805	0.786	2.4	103	0.00	4.63- 4.69
14	MA	Dieldrin	0.882	0.870	1.4	104	0.00	4.99- 5.05
15	MA	Endrin	0.850	0.827	2.7	107	0.00	5.30- 5.36
16	A	4,4'-DDD	0.736	0.697	5.3	108	0.00	5.42- 5.48
17	B	Endosulfan II	0.828	0.785	5.2	105	0.00	5.60- 5.66
18	MA	4,4'-DDT	0.693	0.679	2.0	103	0.00	5.82- 5.88
19	B	Endrin Aldehyde	0.667	0.677	-1.5	109	0.00	6.20- 6.26
20	B	Endosulfan Sulfate	0.675	0.718	-6.4	114	0.00	6.86- 6.92
21	A	Methoxychlor	0.422	0.423	-0.2	103	0.00	6.58- 6.64
22		Mirex	0.791	0.748	5.4	102	0.00	6.72- 6.78
23	B	Endrin Ketone	0.788	0.888	-12.7	118	0.00	7.28- 7.34
24	SA	Decachlorobiphenyl	0.787	0.710	9.8	104	0.00	9.09- 9.15

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.93- 1.99
2	SAB	Tetrachloro-m-xylene	0.859	0.829	3.5	100	0.00	2.58- 2.64
3	A	alpha-BHC	1.131	1.084	4.2	97	0.00	3.15- 3.21
4	MA	gamma-BHC	1.085	1.037	4.4	97	0.00	3.54- 3.60
5	MA	Heptachlor	0.908	1.004	-10.6	115	0.00	4.07- 4.13
6	B	beta-BHC	0.523	0.474	9.4	95	0.00	3.61- 3.67
7	B	delta-BHC	0.933	0.951	-1.9	103	0.00	3.97- 4.03
8	MB	Aldrin	0.959	0.910	5.1	98	0.00	4.49- 4.55
9	B	Heptachlor Epoxide	0.931	0.886	4.8	98	0.00	5.26- 5.32
10	B	gamma-Chlordane	0.941	0.876	6.9	96	0.00	5.53- 5.59
11	B	alpha-Chlordane	0.929	0.873	6.0	97	0.00	5.75- 5.81

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G4G1469-CC1462
Lab FileID: 4G56106.D

12	A	Endosulfan I	0.864	0.822	4.9	99	0.00	5.84- 5.90
13	B	4,4'-DDE	0.842	0.796	5.5	99	0.00	6.00- 6.06
14	MA	Dieldrin	0.905	0.860	5.0	98	0.00	6.26- 6.32
15	MA	Endrin	0.820	0.802	2.2	103	0.00	6.75- 6.81
16	A	4,4'-DDD	0.704	0.703	0.1	105	0.00	6.93- 6.99
17	B	Endosulfan II	0.821	0.773	5.8	100	0.00	7.09- 7.15
18	MA	4,4'-DDT	0.564	0.557	1.2	105	0.00	7.45- 7.51
19	B	Endrin Aldehyde	0.645	0.642	0.5	106	0.00	7.65- 7.71
20	B	Endosulfan Sulfate	0.658	0.688	-4.6	108	0.00	8.11- 8.17
21	A	Methoxychlor	0.309	0.335	-8.4	107	0.00	8.68- 8.74
22		Mirex	0.714	0.703	1.5	98	0.00	8.99- 9.05
23	B	Endrin Ketone	0.750	0.824	-9.9	114	0.00	9.06- 9.12
24	SA	Decachlorobiphenyl	0.657	0.554	15.7	91	0.00	10.76-10.82

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g55795.D 4PST1462.M Thu May 14 15:16:22 2015 RPT1

10.9.32
10

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G4G1470-CC1462
Lab FileID: 4G56128.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1470\4g56128.D\ECD1A.ch  Vial: 2
Signal #2 : C:\msdchem\1\DATA\4G1470\4g56128.D\ECD2B.ch
Acq On    : 15 May 2015   7:57 am                    Operator: rebeccak
Sample    : cc1462-25                                Inst    : GC4G
Misc      : op83929,g4g1470,15.4,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1462.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Thu May 14 15:13:35 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	95	0.00	1.74- 1.80
2	SAB	Tetrachloro-m-xylene	0.859	0.851	0.9	99	0.00	2.18- 2.24
3	A	alpha-BHC	1.087	1.132	-4.1	102	0.00	2.57- 2.63
4	MA	gamma-BHC	1.080	1.106	-2.4	101	0.00	2.82- 2.88
5	MA	Heptachlor	1.042	1.053	-1.1	101	-0.01	3.25- 3.31
6	B	beta-BHC	0.525	0.519	1.1	99	0.00	2.88- 2.94
7	B	delta-BHC	0.943	0.961	-1.9	102	-0.01	3.04- 3.10
8	MB	Aldrin	0.912	0.904	0.9	98	-0.01	3.55- 3.61
9	B	Heptachlor Epoxide	0.902	0.881	2.3	97	-0.01	4.20- 4.26
10	B	gamma-Chlordane	0.917	0.851	7.2	93	-0.01	4.35- 4.41
11	B	alpha-Chlordane	0.903	0.867	4.0	96	-0.01	4.51- 4.57
12	A	Endosulfan I	0.838	0.820	2.1	97	-0.02	4.67- 4.73
13	B	4,4'-DDE	0.805	0.788	2.1	97	-0.02	4.61- 4.67
14	MA	Dieldrin	0.882	0.867	1.7	98	-0.02	4.98- 5.04
15	MA	Endrin	0.850	0.830	2.4	101	-0.02	5.28- 5.34
16	A	4,4'-DDD	0.736	0.689	6.4	100	-0.02	5.40- 5.46
17	B	Endosulfan II	0.828	0.786	5.1	99	-0.02	5.58- 5.64
18	MA	4,4'-DDT	0.693	0.696	-0.4	99	-0.02	5.80- 5.86
19	B	Endrin Aldehyde	0.667	0.681	-2.1	103	-0.02	6.18- 6.24
20	B	Endosulfan Sulfate	0.675	0.726	-7.6	109	-0.01	6.84- 6.90
21	A	Methoxychlor	0.422	0.434	-2.8	100	-0.02	6.56- 6.62
22		Mirex	0.791	0.750	5.2	97	-0.02	6.71- 6.77
23	B	Endrin Ketone	0.788	0.896	-13.7	112	-0.02	7.27- 7.33
24	SA	Decachlorobiphenyl	0.787	0.737	6.4	101	-0.01	9.07- 9.13

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	93	0.01	1.94- 2.00
2	SAB	Tetrachloro-m-xylene	0.859	0.868	-1.0	97	0.00	2.59- 2.65
3	A	alpha-BHC	1.131	1.179	-4.2	98	0.00	3.16- 3.22
4	MA	gamma-BHC	1.085	1.103	-1.7	95	0.00	3.54- 3.60
5	MA	Heptachlor	0.908	1.047	-15.3	111	0.00	4.07- 4.13
6	B	beta-BHC	0.523	0.484	7.5	90	0.00	3.62- 3.68
7	B	delta-BHC	0.933	0.986	-5.7	99	0.00	3.98- 4.04
8	MB	Aldrin	0.959	0.937	2.3	94	0.00	4.49- 4.55
9	B	Heptachlor Epoxide	0.931	0.899	3.4	92	0.00	5.27- 5.33
10	B	gamma-Chlordane	0.941	0.903	4.0	92	0.00	5.54- 5.60
11	B	alpha-Chlordane	0.929	0.888	4.4	91	0.00	5.75- 5.81
12	A	Endosulfan I	0.864	0.834	3.5	93	0.00	5.85- 5.91

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G4G1470-CC1462
Lab FileID: 4G56128.D

13	B	4,4'-DDE	0.842	0.806	4.3	93	0.00	6.01- 6.07
14	MA	Dieldrin	0.905	0.881	2.7	94	0.00	6.27- 6.33
15	MA	Endrin	0.820	0.820	0.0	98	0.00	6.75- 6.81
16	A	4,4'-DDD	0.704	0.701	0.4	97	0.00	6.93- 6.99
17	B	Endosulfan II	0.821	0.791	3.7	95	0.00	7.09- 7.15
18	MA	4,4'-DDT	0.564	0.604	-7.1	106	0.00	7.45- 7.51
19	B	Endrin Aldehyde	0.645	0.662	-2.6	101	0.00	7.65- 7.71
20	B	Endosulfan Sulfate	0.658	0.717	-9.0	104	0.00	8.11- 8.17
21	A	Methoxychlor	0.309	0.362	-17.2	108	0.00	8.68- 8.74
22		Mirex	0.714	0.731	-2.4	94	0.00	8.99- 9.05
23	B	Endrin Ketone	0.750	0.861	-14.8	110	0.00	9.06- 9.12
24	SA	Decachlorobiphenyl	0.657	0.590	10.2	90	0.00	10.75-10.81

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g55795.D 4PST1462.M Fri May 15 16:38:01 2015 RPT1

10.9.33
10

Initial Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G6G675-ICC675
Lab FileID: 6G22463.D

Response Factor Report HP G1530A

Method : C:\msdchem\1\METHODS\6PST675.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 04 10:28:16 2015
Response via : Initial Calibration

Calibration Files
2 =6g22460.D 5 =6g22461.D 10 =6g22462.D 25 =6g22463.D
50 =6g22464.D 100 =6g22466.D 1 =6g22459.D 75 =6g22465.D

Compound	2	5	10	25	50	100	1	75	Avg	%RSD
1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	0.967	0.789	0.814	0.785	0.767	0.756	0.811	0.784	0.809	8.24
3) alpha-BHC	1.101	1.094	1.108	1.115	1.143	1.137	1.089	1.161	1.118	2.30
4) gamma-BHC	1.084	1.053	1.069	1.062	1.076	1.060	1.058	1.094	1.069	1.33
5) Heptachlor	1.025	0.979	0.966	0.928	0.913	0.884	1.002	0.913	0.951	5.20
6) beta-BHC	0.512	0.481	0.491	0.473	0.460	0.433	0.494	0.477	0.478	4.99
7) delta-BHC	0.979	0.942	0.971	1.011	1.037	1.032	0.937	1.051	0.995	4.40
8) Aldrin	1.020	0.973	0.965	0.929	0.913	0.880	0.996	0.912	0.948	5.04
9) Heptachlor E	1.051	0.963	0.954	0.907	0.881	0.834	0.977	0.871	0.930	7.53
10) gamma-Chlord	1.055	0.952	0.940	0.894	0.869	0.830	1.042	0.863	0.931	8.93
11) alpha-Chlord	1.002	0.950	0.924	0.884	0.857	0.811	1.023	0.847	0.912	8.29
12) Endosulfan I	1.004	0.938	0.917	0.884	0.862	0.810	0.971	0.850	0.905	7.21
13) 4,4'-DDE	0.877	0.826	0.814	0.804	0.797	0.773	0.875	0.800	0.821	4.53
14) Dieldrin	1.024	0.983	0.941	0.919	0.902	0.867	1.055	0.901	0.949	6.92
15) Endrin	0.944	0.897	0.890	0.886	0.876	0.830	0.929	0.869	0.890	3.97
16) 4,4'-DDD	0.826	0.756	0.742	0.772	0.770	0.722	0.810	0.758	0.770	4.43
17) Endosulfan I	0.906	0.869	0.852	0.830	0.814	0.761	0.909	0.799	0.842	6.14
18) 4,4'-DDT	0.353	0.403	0.433	0.512	0.541	0.562	0.362	0.562	0.466	19.05
19) Endrin Aldeh	0.794	0.734	0.715	0.697	0.674	0.630	0.757	0.663	0.708	7.54
20) Endosulfan S	0.885	0.822	0.821	0.782	0.751	0.699	0.825	0.733	0.790	7.62
21) Methoxychlor	0.264	0.262	0.284	0.318	0.325	0.317	0.305	0.327	0.300	8.92
22) Mirex	0.891	0.835	0.768	0.759	0.703	0.608	0.857	0.648	0.759	13.27
23) Endrin Keton	0.967	0.963	0.956	0.935	0.917	0.872	0.907	0.905	0.928	3.63
24) Decachlorobi	0.794	0.759	0.725	0.670	0.634	0.580	0.904	0.613	0.710	15.17
25) I 1-bromo-2-nitrobenzen	ISTD									
26) Toxaphene{A}					0.019				0.019	0.00
27) Toxaphene{B}					0.030				0.030	0.00
28) Toxaphene{C}					0.028				0.028	0.00
29) Toxaphene{D}					0.028				0.028	0.00
30) Toxaphene{E}					0.025				0.025	0.00
31) I 1-bromo-2-nitrobenzen	ISTD									
32) Chlordane {A					0.039				0.039	0.00
33) Chlordane {B					0.049				0.049	0.00
34) Chlordane {C					0.130				0.130	0.00
35) Chlordane {D					0.194				0.194	0.00
36) Chlordane {E					0.029				0.029	0.00

Signal #2

1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	0.842	0.803	0.797	0.778	0.766	0.733	0.790	0.763	0.784	4.14
3) alpha-BHC	1.169	1.125	1.133	1.133	1.135	1.110	1.088	1.141	1.129	2.08
4) gamma-BHC	1.086	1.070	1.063	1.056	1.058	1.032	1.071	1.062	1.062	1.46

Initial Calibration Summary

Job Number: JB94209 **Sample:** G6G675-ICC675
Account: PTCNJB PT Consultants **Lab FileID:** 6G22463.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

5)	Heptachlor	1.022	0.977	0.965	0.939	0.924	0.893	1.009	0.922	0.956	4.71
6)	beta-BHC	0.459	0.464	0.468	0.457	0.449	0.428	0.512	0.445	0.460	5.33
7)	delta-BHC	1.078	1.039	1.044	1.038	1.044	1.022	1.035	1.050	1.044	1.54
8)	Aldrin	0.976	0.923	0.944	0.897	0.881	0.854	0.943	0.880	0.912	4.49
9)	Heptachlor E	0.939	0.900	0.892	0.854	0.831	0.797	0.910	0.828	0.869	5.58
10)	gamma-Chlord	0.915	0.888	0.881	0.841	0.823	0.794	0.987	0.820	0.869	7.22
11)	alpha-Chlord	1.105	0.936	0.907	0.832	0.803	0.769	1.235	0.797	0.923	17.99
12)	Endosulfan I	1.008	0.864	0.853	0.798	0.781	0.745	0.873	0.774	0.837	9.96
13)	4,4'-DDE	0.953	0.892	0.871	0.832	0.820	0.795	0.900	0.823	0.861	6.10
14)	Dieldrin	1.006	0.930	0.904	0.874	0.864	0.833	0.955	0.860	0.903	6.36
15)	Endrin	1.021	0.873	0.853	0.811	0.802	0.765	1.010	0.794	0.866	11.32
16)	4,4'-DDD	0.812	0.737	0.731	0.703	0.705	0.678	0.788	0.701	0.732	6.32
17)	Endosulfan I	0.828	0.813	0.796	0.758	0.748	0.719	0.775	0.743	0.773	4.84
18)	4,4'-DDT	0.505	0.513	0.573	0.593	0.618	0.620	0.518	0.629	0.571	9.12
19)	Endrin Aldeh	0.651	0.614	0.630	0.614	0.605	0.578	0.587	0.601	0.610	3.81
20)	Endosulfan S	0.836	0.738	0.728	0.680	0.674	0.639	0.819	0.662	0.722	10.11
21)	Methoxychlor	0.317	0.298	0.330	0.326	0.330	0.318	0.329	0.328	0.322	3.46
22)	Mirex	0.651	0.632	0.620	0.600	0.593	0.534	0.785	0.558	0.622	12.26
23)	Endrin Keton	0.943	0.879	0.878	0.828	0.834	0.805	0.824	0.830	0.853	5.25
24)	Decachlorobi	0.645	0.561	0.603	0.559	0.546	0.517	0.577	0.539	0.568	7.07

25) I 1-bromo-2-nitrobenzen ----------ISTD----------

26)	Toxaphene{A}	0.022	0.022	0.00
27)	Toxaphene{B}	0.029	0.029	0.00
28)	Toxaphene{C}	0.043	0.043	0.00
29)	Toxaphene{D}	0.027	0.027	0.00
30)	Toxaphene{E}	0.023	0.023	0.00

31) I 1-bromo-2-nitrobenzen ----------ISTD----------

32)	Chlordane {A	0.031	0.031	0.00
33)	Chlordane {B	0.036	0.036	0.00
34)	Chlordane {C	0.110	0.110	0.00
35)	Chlordane {D	0.182	0.182	0.00
36)	Chlordane {E	0.032	0.032	0.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

6PST675.M Mon May 04 10:47:52 2015

10.9.34 10

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G6G675-ICV675
Lab FileID: 6G22469.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\675\6g22469.D\ECD1A.CH     Vial: 13
Signal #2 : C:\msdchem\1\DATA\675\6g22469.D\ECD2B.CH
Acq On    : 01 May 2015   7:16 pm                    Operator: yvelandd
Sample    : icv675-25                                Inst    : HP G1530A
Misc      : op83370,g6g675,100,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\msdchem\1\METHODS\6PST675.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 04 10:28:16 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	96	0.00	1.33- 1.39
2	SAB	Tetrachloro-m-xylene		----------NA----------				
3	A	alpha-BHC	1.118	1.106	1.1	95	0.00	2.57- 2.63
4	MA	gamma-BHC	1.069	1.046	2.2	95	0.00	2.90- 2.96
5	MA	Heptachlor	0.951	0.940	1.2	97	0.00	3.42- 3.48
6	B	beta-BHC	0.478	0.496	-3.8	101	0.00	2.99- 3.05
7	B	delta-BHC	0.995	0.955	4.0	91	0.00	3.20- 3.26
8	MB	Aldrin	0.948	0.975	-2.8	101	0.00	3.78- 3.85
9	B	Heptachlor Epoxide	0.930	0.932	-0.2	99	0.00	4.57- 4.63
10	B	gamma-Chlordane	0.931	0.939	-0.9	101	0.00	4.74- 4.80
11	B	alpha-Chlordane	0.912	0.910	0.2	99	0.00	4.93- 4.99
12	A	Endosulfan I	0.905	0.896	1.0	97	0.00	5.13- 5.19
13	B	4,4'-DDE	0.821	0.827	-0.7	99	0.00	5.06- 5.12
14	MA	Dieldrin	0.949	0.944	0.5	99	0.00	5.49- 5.55
15	MA	Endrin	0.890	0.920	-3.4	100	0.00	5.85- 5.91
16	A	4,4'-DDD	0.770	0.775	-0.6	96	0.00	5.99- 6.05
17	B	Endosulfan II	0.842	0.852	-1.2	99	0.00	6.21- 6.27
18	MA	4,4'-DDT	0.466	0.509	-9.2	96	0.00	6.44- 6.50
19	B	Endrin Aldehyde	0.708	0.736	-4.0	102	0.00	6.91- 6.97
20	B	Endosulfan Sulfate	0.790	0.790	0.0	97	0.00	7.67- 7.73
21	A	Methoxychlor	0.300	0.317	-5.7	96	0.00	7.31- 7.37
22		Mirex		----------NA----------				
23	B	Endrin Ketone	0.928	0.930	-0.2	96	0.00	8.17- 8.23
24	SAB	Decachlorobiphenyl		----------NA----------				

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	93	0.00	1.44- 1.50
2	SAB	Tetrachloro-m-xylene		----------NA----------				
3	A	alpha-BHC	1.129	1.108	1.9	91	0.00	3.01- 3.07
4	MA	gamma-BHC	1.062	1.029	3.1	91	0.00	3.44- 3.50
5	MA	Heptachlor	0.956	0.939	1.8	93	0.00	4.02- 4.08
6	B	beta-BHC	0.460	0.459	0.2	94	0.00	3.54- 3.60
7	B	delta-BHC	1.044	0.965	7.6	87	0.00	3.93- 3.99
8	MB	Aldrin	0.912	0.925	-1.4	96	0.00	4.48- 4.54
9	B	Heptachlor Epoxide	0.869	0.867	0.2	95	0.00	5.34- 5.40
10	B	gamma-Chlordane	0.869	0.864	0.6	96	0.00	5.64- 5.70
11	B	alpha-Chlordane	0.923	0.841	8.9	94	0.00	5.88- 5.94
12	A	Endosulfan I	0.837	0.796	4.9	93	0.00	5.98- 6.04
13	B	4,4'-DDE	0.861	0.860	0.1	96	0.00	6.16- 6.22

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G6G675-ICV675
Lab FileID: 6G22469.D

14	MA	Dieldrin	0.903	0.888	1.7	95	0.00	6.44- 6.50
15	MA	Endrin	0.866	0.856	1.2	98	0.00	6.97- 7.03
16	A	4,4'-DDD	0.732	0.747	-2.0	99	0.00	7.18- 7.24
17	B	Endosulfan II	0.773	0.775	-0.3	95	0.00	7.35- 7.41
18	MA	4,4'-DDT	0.571	0.607	-6.3	95	0.00	7.75- 7.81
19	B	Endrin Aldehyde	0.610	0.622	-2.0	94	0.00	7.97- 8.03
20	B	Endosulfan Sulfate	0.722	0.691	4.3	95	0.00	8.49- 8.55
21	A	Methoxychlor	0.322	0.342	-6.2	98	0.00	9.09- 9.15
22		Mirex		----------NA----------				
23	B	Endrin Ketone	0.853	0.837	1.9	94	0.00	9.51- 9.57
24	SAB	Decachlorobiphenyl		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6g22463.D 6PST675.M Mon May 04 10:46:19 2015

10.9.35

10

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G6G675-ICV675
Lab FileID: 6G22470.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\675\6g22470.D\ECD1A.CH     Vial: 14
Signal #2 : C:\msdchem\1\DATA\675\6g22470.D\ECD2B.CH
Acq On    : 01 May 2015   7:33 pm                    Operator: yvelandd
Sample    : icv675-25                                Inst    : HP G1530A
Misc      : op83370,g6g675,100,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\msdchem\1\METHODS\6PST675.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 04 10:28:16 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.34- 1.40
22	Mirex	0.759	0.769	-1.3	102	0.00	7.45- 7.51

***** Signal #2 *****

1 I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	97	0.00	1.44- 1.50
22	Mirex	0.622	0.623	-0.2	101	0.00	9.41- 9.47

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6g22463.D 6PST675.M Mon May 04 10:46:46 2015

10.9.36

10

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Sample: G6G675-ICV675
Lab FileID: 6G22471.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\675\6g22471.D\ECD1A.CH     Vial: 15
Signal #2 : C:\msdchem\1\DATA\675\6g22471.D\ECD2B.CH
Acq On    : 01 May 2015   7:50 pm                    Operator: yvelandd
Sample    : icv675-500                               Inst    : HP G1530A
Misc      : op83370,g6g675,100,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\msdchem\1\METHODS\6PST675.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 04 10:28:16 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	96	0.00	1.34- 1.40
26	L8	Toxaphene{A}	0.019	0.019	0.0	95	0.00	5.43- 5.63
27	L8	Toxaphene{B}	0.030	0.028	6.7	88	0.00	6.12- 6.32
28	L8	Toxaphene{C}	0.028	0.028	0.0	95	0.00	6.32- 6.52
29	L8	Toxaphene{D}	0.028	0.027	3.6	91	0.00	6.69- 6.89
30	L8	Toxaphene{E}	0.025	0.022	12.0	83	0.00	7.42- 7.62

-

***** Signal #2 *****

25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	97	0.00	1.44- 1.50
26	L8	Toxaphene{A}	0.022	0.020	9.1	90	0.00	6.33- 6.53
27	L8	Toxaphene{B}	0.029	0.025	13.8	86	0.00	7.25- 7.45
28	L8	Toxaphene{C}	0.043	0.037	14.0	84	0.00	7.43- 7.63
29	L8	Toxaphene{D}	0.027	0.024	11.1	86	0.00	7.91- 8.11
30	L8	Toxaphene{E}	0.023	0.020	13.0	82	0.00	8.87- 9.07

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6g22464.D 6PST675.M Mon May 04 10:47:14 2015

10.9.37 10

Initial Calibration Verification

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Sample: G6G675-ICV675
Lab FileID: 6G22472.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\675\6g22472.D\ECD1A.CH     Vial: 16
Signal #2 : C:\msdchem\1\DATA\675\6g22472.D\ECD2B.CH
Acq On    : 01 May 2015   8:07 pm                    Operator: yvelandd
Sample    : icv675-500                               Inst    : HP G1530A
Misc      : op83370,g6g675,100,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\msdchem\1\METHODS\6PST675.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 04 10:28:16 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
31 I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	99	0.00	1.33- 1.39
32	Chlordane {A}	0.039	0.041	-5.1	104	0.00	3.26- 3.46
33	Chlordane {B}	0.049	0.047	4.1	96	0.00	3.88- 4.08
34	Chlordane {C}	0.130	0.120	7.7	91	0.00	4.67- 4.87
35	Chlordane {D}	0.194	0.182	6.2	93	0.00	4.85- 5.05
36	Chlordane {E}	0.029	0.028	3.4	94	0.00	6.03- 6.23

***** Signal #2 *****

31 I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.37- 1.57
32	Chlordane {A}	0.031	0.032	-3.2	105	0.00	3.76- 3.96
33	Chlordane {B}	0.036	0.030	16.7	84	0.00	4.62- 4.82
34	Chlordane {C}	0.110	0.098	10.9	88	0.00	5.57- 5.77
35	Chlordane {D}	0.182	0.162	11.0	89	0.00	5.81- 6.01
36	Chlordane {E}	0.032	0.028	12.5	87	0.00	7.36- 7.56

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6g22464.D 6PST675.M Mon May 04 10:47:39 2015

10.9.38 10

Continuing Calibration Summary

Job Number: JB94209 **Sample:** G6G684-CC675
Account: PTCNJB PT Consultants **Lab FileID:** 6G22903.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\684\6g22903.D\ECD1A.CH     Vial: 2
Signal #2 : C:\msdchem\1\DATA\684\6g22903.D\ECD2B.CH
Acq On    : 14 May 2015   7:57 am                    Operator: rebeccak
Sample    : cc675-25                                 Inst    : HP G1530A
Misc      : op83830,g6g684,300,,,2,1                 Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\6PST675.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 04 10:28:16 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	81	0.02	1.35- 1.41
2	SAB	Tetrachloro-m-xylene	0.809	0.818	-1.1	84	0.00	2.03- 2.09
3	A	alpha-BHC	1.118	1.161	-3.8	84	0.00	2.57- 2.63
4	MA	gamma-BHC	1.069	1.090	-2.0	83	0.00	2.89- 2.95
5	MA	Heptachlor	0.951	1.026	-7.9	89	0.00	3.42- 3.48
6	B	beta-BHC	0.478	0.478	0.0	82	0.00	2.99- 3.05
7	B	delta-BHC	0.995	0.953	4.2	76	0.00	3.19- 3.25
8	MB	Aldrin	0.948	0.933	1.6	81	0.00	3.77- 3.84
9	B	Heptachlor Epoxide	0.930	0.834	10.3	74	0.00	4.56- 4.62
10	B	gamma-Chlordane	0.931	0.817	12.2	74	0.00	4.74- 4.80
11	B	alpha-Chlordane	0.912	0.852	6.6	78	0.00	4.92- 4.98
12	A	Endosulfan I	0.905	0.859	5.1	78	0.00	5.12- 5.18
13	B	4,4'-DDE	0.821	0.780	5.0	78	-0.01	5.04- 5.10
14	MA	Dieldrin	0.949	0.893	5.9	78	0.00	5.48- 5.54
15	MA	Endrin	0.890	0.863	3.0	79	0.00	5.84- 5.90
16	A	4,4'-DDD	0.770	0.682	11.4	71	-0.01	5.97- 6.03
17	B	Endosulfan II	0.842	0.801	4.9	78	-0.01	6.20- 6.26
18	MA	4,4'-DDT	0.466	0.666	-42.9#	105	-0.01	6.42- 6.48
19	B	Endrin Aldehyde	0.708	0.649	8.3	75	-0.01	6.90- 6.96
20	B	Endosulfan Sulfate	0.790	0.751	4.9	78	-0.01	7.66- 7.72
21	A	Methoxychlor	0.300	0.397	-32.3#	101	-0.02	7.29- 7.35
22		Mirex	0.759	0.741	2.4	79	-0.01	7.44- 7.50
23	B	Endrin Ketone	0.928	0.907	2.3	78	-0.02	8.15- 8.21
24	SAB	Decachlorobiphenyl	0.710	0.647	8.9	78	-0.02	10.13-10.19

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	93	0.02	1.45- 1.51
2	SAB	Tetrachloro-m-xylene	0.784	0.811	-3.4	96	0.00	2.33- 2.39
3	A	alpha-BHC	1.129	1.105	2.1	90	0.00	3.01- 3.07
4	MA	gamma-BHC	1.062	1.013	4.6	89	0.00	3.44- 3.50
5	MA	Heptachlor	0.956	0.994	-4.0	98	0.00	4.02- 4.08
6	B	beta-BHC	0.460	0.447	2.8	90	0.00	3.54- 3.60
7	B	delta-BHC	1.044	0.998	4.4	89	0.00	3.93- 3.99
8	MB	Aldrin	0.912	0.916	-0.4	95	0.00	4.48- 4.54
9	B	Heptachlor Epoxide	0.869	0.816	6.1	88	0.00	5.33- 5.39
10	B	gamma-Chlordane	0.869	0.846	2.6	93	0.00	5.63- 5.69
11	B	alpha-Chlordane	0.923	0.819	11.3	91	0.00	5.87- 5.93
12	A	Endosulfan I	0.837	0.809	3.3	94	0.00	5.97- 6.03
13	B	4,4'-DDE	0.861	0.838	2.7	93	0.00	6.15- 6.21

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G6G684-CC675
Lab FileID: 6G22903.D

14	MA	Dieldrin	0.903	0.859	4.9	91	0.00	6.43- 6.49
15	MA	Endrin	0.866	0.818	5.5	93	0.00	6.96- 7.02
16	A	4,4'-DDD	0.732	0.683	6.7	90	0.00	7.17- 7.23
17	B	Endosulfan II	0.773	0.748	3.2	91	0.00	7.34- 7.40
18	MA	4,4'-DDT	0.571	0.664	-16.3	104	0.00	7.74- 7.80
19	B	Endrin Aldehyde	0.610	0.597	2.1	90	-0.01	7.96- 8.02
20	B	Endosulfan Sulfate	0.722	0.691	4.3	94	-0.01	8.48- 8.54
21	A	Methoxychlor	0.322	0.370	-14.9	105	-0.01	9.08- 9.14
22		Mirex	0.622	0.657	-5.6	101	-0.01	9.39- 9.45
23	B	Endrin Ketone	0.853	0.823	3.5	92	-0.01	9.50- 9.56
24	SAB	Decachlorobiphenyl	0.568	0.657	-15.7	109	0.00	11.58-11.64

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6g22463.D 6PST675.M Thu May 14 13:31:18 2015

10.9.39
10

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G6G684-CC675
Lab FileID: 6G22925.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\684\6g22925.D\ECD1A.CH     Vial: 2
Signal #2 : C:\msdchem\1\DATA\684\6g22925.D\ECD2B.CH
Acq On    : 14 May 2015   3:03 pm                    Operator: yvelandd
Sample    : cc675-25                                 Inst    : HP G1530A
Misc      : op83920,g6g684,16.4,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\6PST675.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 04 10:28:16 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	79	0.02	1.35- 1.41
2	SAB	Tetrachloro-m-xylene	0.809	0.765	5.4	76	0.01	2.03- 2.09
3	A	alpha-BHC	1.118	1.096	2.0	77	0.00	2.57- 2.63
4	MA	gamma-BHC	1.069	1.049	1.9	78	0.00	2.90- 2.96
5	MA	Heptachlor	0.951	1.033	-8.6	87	0.00	3.43- 3.49
6	B	beta-BHC	0.478	0.478	0.0	79	0.00	2.99- 3.05
7	B	delta-BHC	0.995	0.943	5.2	73	0.00	3.20- 3.26
8	MB	Aldrin	0.948	0.916	3.4	77	0.00	3.78- 3.85
9	B	Heptachlor Epoxide	0.930	0.803	13.7	70	0.00	4.57- 4.63
10	B	gamma-Chlordane	0.931	0.783	15.9	69	0.00	4.75- 4.81
11	B	alpha-Chlordane	0.912	0.815	10.6	72	0.00	4.93- 4.99
12	A	Endosulfan I	0.905	0.817	9.7	73	0.00	5.13- 5.19
13	B	4,4'-DDE	0.821	0.756	7.9	74	0.00	5.05- 5.11
14	MA	Dieldrin	0.949	0.857	9.7	73	0.00	5.49- 5.55
15	MA	Endrin	0.890	0.814	8.5	72	0.00	5.85- 5.91
16	A	4,4'-DDD	0.770	0.651	15.5	66	0.00	5.98- 6.04
17	B	Endosulfan II	0.842	0.760	9.7	72	0.00	6.21- 6.27
18	MA	4,4'-DDT	0.466	0.649	-39.3#	100	0.00	6.43- 6.49
19	B	Endrin Aldehyde	0.708	0.617	12.9	70	0.00	6.91- 6.97
20	B	Endosulfan Sulfate	0.790	0.701	11.3	70	0.00	7.67- 7.73
21	A	Methoxychlor	0.300	0.383	-27.7#	95	0.00	7.31- 7.37
22		Mirex	0.759	0.683	10.0	71	0.00	7.45- 7.51
23	B	Endrin Ketone	0.928	0.822	11.4	69	0.00	8.16- 8.22
24	SAB	Decachlorobiphenyl	0.710	0.572	19.4	67	0.00	10.14-10.20

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	86	0.00	1.44- 1.50
2	SAB	Tetrachloro-m-xylene	0.784	0.781	0.4	86	0.00	2.33- 2.39
3	A	alpha-BHC	1.129	1.059	6.2	80	0.00	3.00- 3.06
4	MA	gamma-BHC	1.062	1.013	4.6	82	0.00	3.44- 3.50
5	MA	Heptachlor	0.956	0.962	-0.6	88	0.00	4.02- 4.08
6	B	beta-BHC	0.460	0.446	3.0	83	0.00	3.53- 3.59
7	B	delta-BHC	1.044	0.959	8.1	79	0.00	3.92- 3.98
8	MB	Aldrin	0.912	0.859	5.8	82	0.00	4.48- 4.54
9	B	Heptachlor Epoxide	0.869	0.795	8.5	80	0.00	5.33- 5.39
10	B	gamma-Chlordane	0.869	0.786	9.6	80	0.00	5.63- 5.69
11	B	alpha-Chlordane	0.923	0.792	14.2	81	0.00	5.87- 5.93

Continuing Calibration Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: G6G684-CC675
Lab FileID: 6G22925.D

12	A	Endosulfan I	0.837	0.763	8.8	82	0.00	5.97- 6.03
13	B	4,4'-DDE	0.861	0.811	5.8	83	0.00	6.15- 6.21
14	MA	Dieldrin	0.903	0.819	9.3	80	0.00	6.43- 6.49
15	MA	Endrin	0.866	0.791	8.7	83	-0.01	6.95- 7.01
16	A	4,4'-DDD	0.732	0.654	10.7	80	-0.01	7.17- 7.23
17	B	Endosulfan II	0.773	0.721	6.7	81	0.00	7.34- 7.40
18	MA	4,4'-DDT	0.571	0.652	-14.2	94	0.00	7.74- 7.80
19	B	Endrin Aldehyde	0.610	0.583	4.4	81	-0.01	7.96- 8.02
20	B	Endosulfan Sulfate	0.722	0.662	8.3	83	-0.01	8.48- 8.54
21	A	Methoxychlor	0.322	0.368	-14.3	96	-0.01	9.08- 9.14
22		Mirex	0.622	0.601	3.4	86	-0.01	9.39- 9.45
23	B	Endrin Ketone	0.853	0.901	-5.6	93	-0.01	9.50- 9.56
24	SAB	Decachlorobiphenyl	0.568	0.612	-7.7	94	0.00	11.58-11.64

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6g22463.D 6PST675.M Fri May 15 11:12:36 2015

10.9.40

10

New Jersey

GC Semi-volatiles

Raw Data

Manual Integrations
APPROVED
(compounds with "m" flag)
Owen McKenna
05/14/15 14:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56090.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 10:31 am
Operator : yvelandd
Sample : jb94209-1
Misc : op83920,g4g1469,15.4,,,10,1
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 11:04:18 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 14 10:13:14 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2...	1.771	1.970	134.0E6	182.6E6	50.000	50.000
25) I 1-bromo-2...	1.771	1.970	134.0E6	182.6E6	50.000	50.000
31) I 1-bromo-2...	1.771	1.970	134.0E6	182.6E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	2.214	2.623	91258878	126.1E6	39.635	40.214
Spiked Amount	40.000	Range	30 - 150	Recovery	= 99.09%	100.54%
24) SA Decachlor...	9.106	10.788	69502343	70912563	32.954m	29.568m
Spiked Amount	40.000			Recovery	= 82.38%	73.92%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

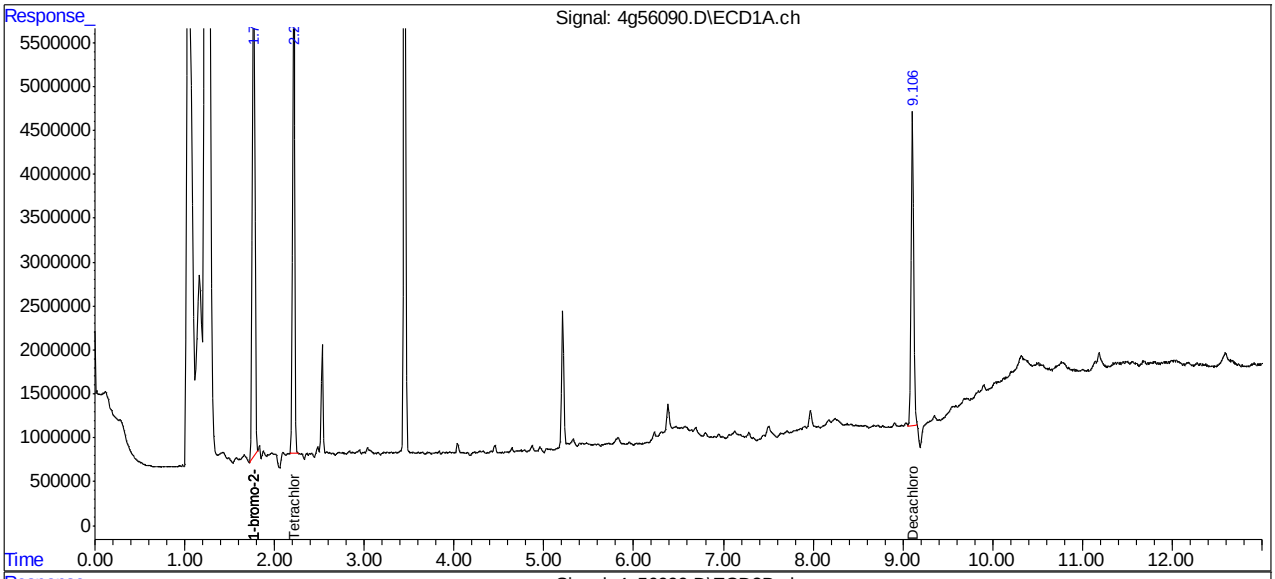
11.1.1
11

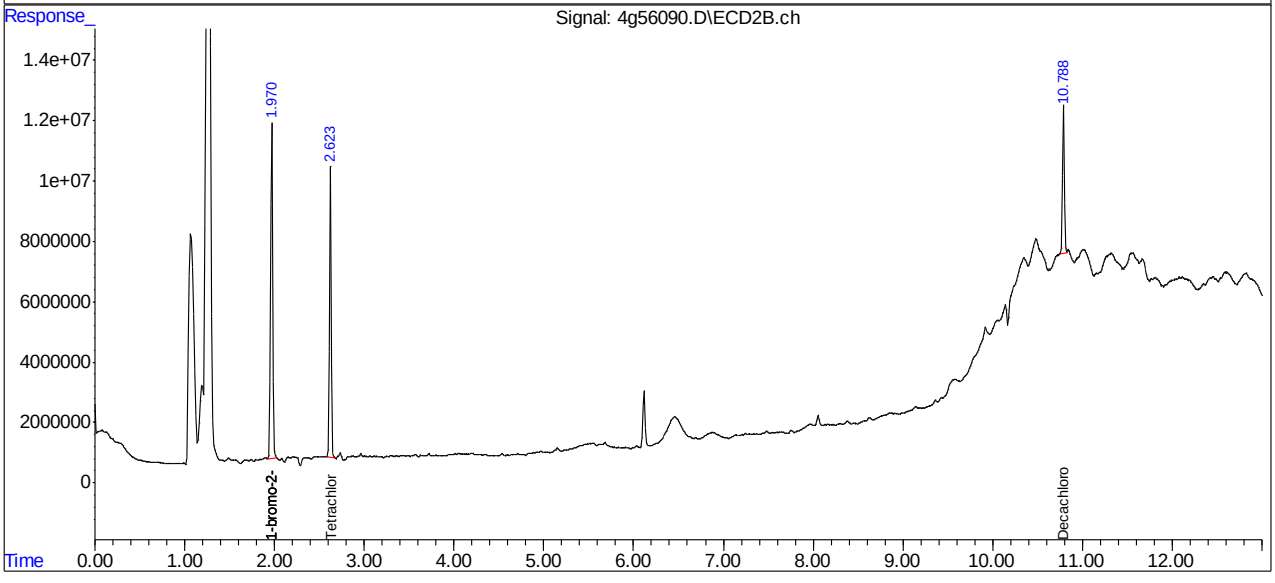
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56090.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 10:31 am
Operator : yvelandd
Sample : jb94209-1
Misc : op83920,g4g1469,15.4,,,10,1
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 11:04:18 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 14 10:13:14 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations
APPROVED
(compounds with "m" flag)
Owen McKenna
05/14/15 14:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56091.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 10:46 am
Operator : yvelandd
Sample : jb94209-2
Misc : op83920,g4g1469,16.8,,,10,1
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 11:05:06 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 14 10:13:14 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2...	1.772	1.970	136.1E6	185.0E6	50.000	50.000
25) I 1-bromo-2...	1.772	1.970	136.1E6	185.0E6	50.000	50.000
31) I 1-bromo-2...	1.772	1.970	136.1E6	185.0E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	2.214	2.623	85705809	119.3E6	36.638	37.542
Spiked Amount	40.000	Range	30 - 150	Recovery	= 91.59%	93.86%
24) SA Decachlor...	9.106	10.789	67918387	68058562	31.697m	28.004
Spiked Amount	40.000			Recovery	= 79.24%	70.01%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

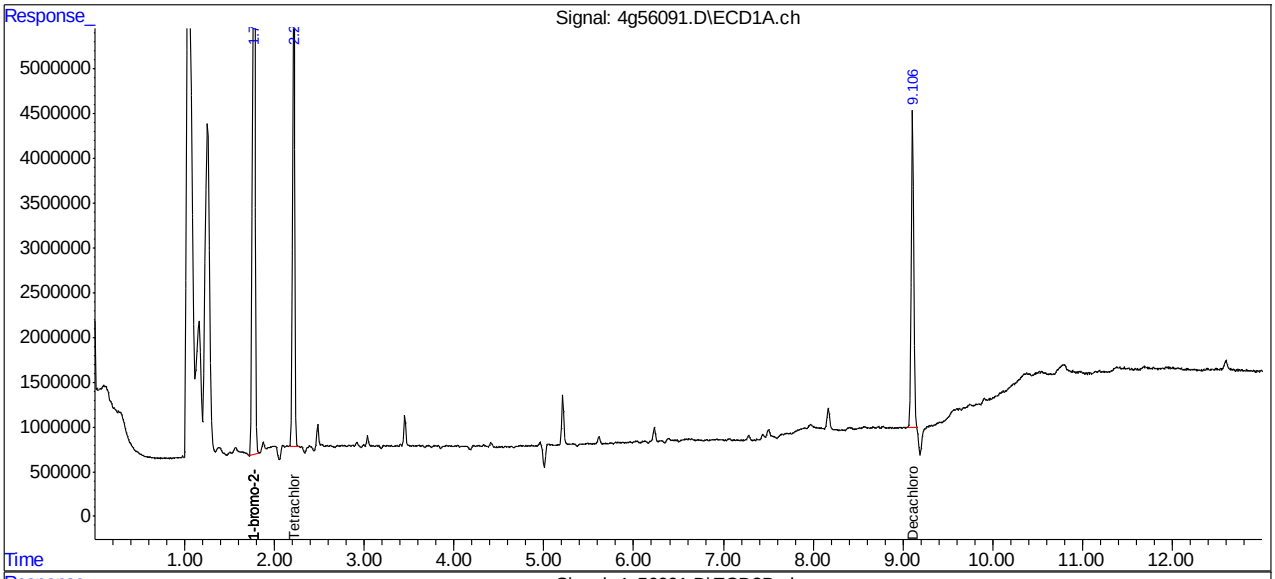
11.1.2
11

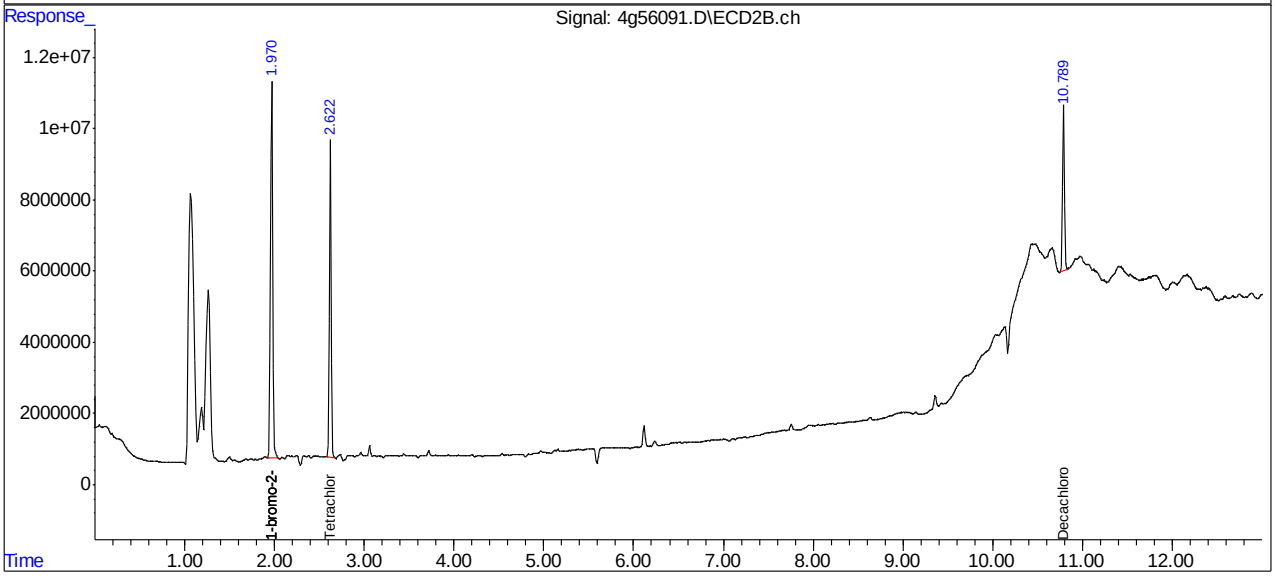
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56091.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 10:46 am
Operator : yvelandd
Sample : jb94209-2
Misc : op83920,g4g1469,16.8,,,10,1
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 11:05:06 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 14 10:13:14 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna
05/14/15 17:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56092.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 11:00 am
Operator : yvelandd
Sample : jb94209-3
Misc : op83920,g4g1469,15.3,,,10,1
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 17:13:45 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 14 10:13:14 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.772	1.970	122.7E6	161.4E6	50.000	50.000
25) I	1-bromo-2...	1.772	1.970	122.7E6	161.4E6	50.000	50.000
31) I	1-bromo-2...	1.772	1.970	122.7E6	161.4E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.215	2.623	81911992	104.7E6	38.853	37.785m
Spiked Amount		40.000 Range	30 - 150	Recovery	=	97.13%	94.46%
24) SA	Decachlor...	9.143f	10.784	527.9E6	963.9E6	273.347m	454.786m#
Spiked Amount		40.000		Recovery	=	683.37%	1136.96%
	Target Compounds						
3) A	alpha-BHC	2.594	3.191	18708741	6753828	7.014m	1.851m#
7) B	delta-BHC	3.074	3.991f	7372532	8744414	3.186	2.904m
10) B	gamma-Chl...	4.382	5.572	44314907	85574962	19.694m	28.175m#
11) B	alpha-Chl...	4.536	5.785	75071341	60734641	33.887	20.263 #
13) B	4,4'-DDE	4.646	6.041	2058.7E6	2776.6E6	1041.567	1021.312
14) MA	Dieldrin	5.010	6.294	37653106	58299480	17.401m	19.952
16) A	4,4'-DDD	5.434	6.963	304.9E6	541.1E6	168.772m	238.310m#
18) MA	4,4'-DDT	5.837	7.486	6880.2E6	9248.0E6	4044.953	5082.411 #
21) A	Methoxychlor	6.599	8.691f	88593077	33593597	85.590m	33.740m#

SemiQuant Compounds - Not Calibrated on this Instrument

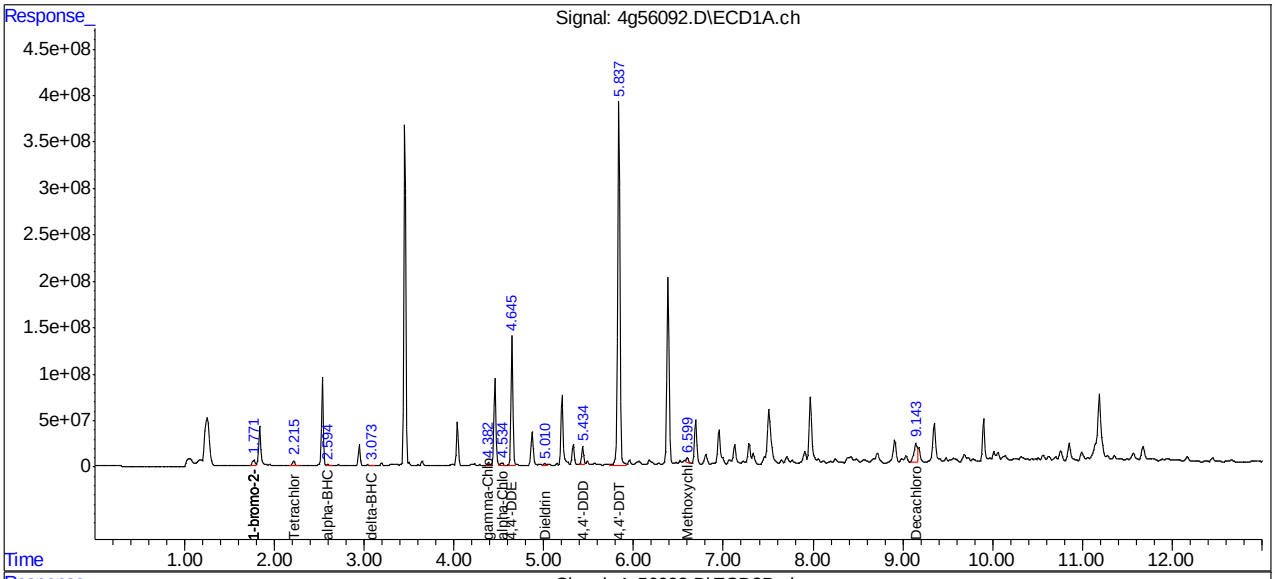
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

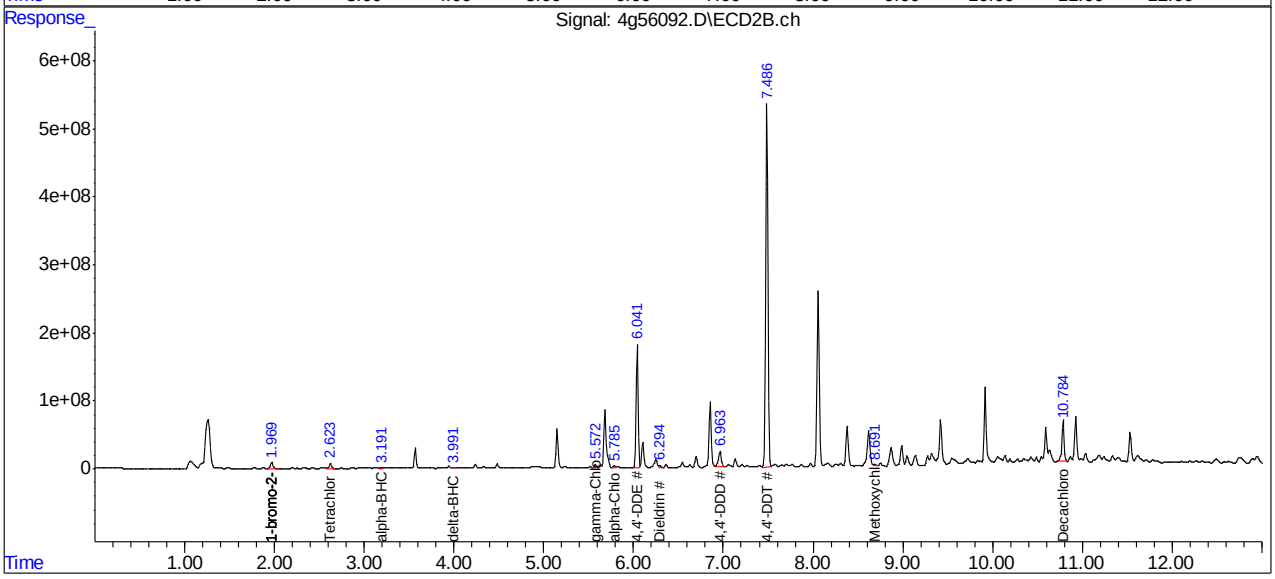
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56092.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 11:00 am
Operator : yvelandd
Sample : jb94209-3
Misc : op83920,g4g1469,15.3,,,10,1
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 17:13:45 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 14 10:13:14 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna 05/14/15 17:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\684\
Data File : 6g22920.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 May 2015 12:48 pm
Operator : yvelandd
Sample : jb94209-3
Misc : op83920,g6g684,15.3,,,10,100
ALS Vial : 58 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 13:12:05 2015
Quant Method : C:\MSDCHEM\1\METHODS\6PST675.M
Quant Title : PEST/PCB
QLast Update : Mon May 04 10:28:16 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.380f	1.482f	159.3E6	208.7E6	50.000	50.000
25) I	1-bromo-2...	1.380f	1.482f	159.3E6	208.7E6	50.000	50.000
31) I	1-bromo-2...	1.380	1.482	159.3E6	208.7E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
13) B	4,4'-DDE	5.072	6.181	26914423	32006991	10.292m	8.910m
16) A	4,4'-DDD	6.000	7.196	12482444	13456801	5.090	4.406
18) MA	4,4'-DDT	6.453	7.768	77722447	92892739	52.345m	38.971 #
	SemiQuant Compounds - Not Calibrated on this Instrument						

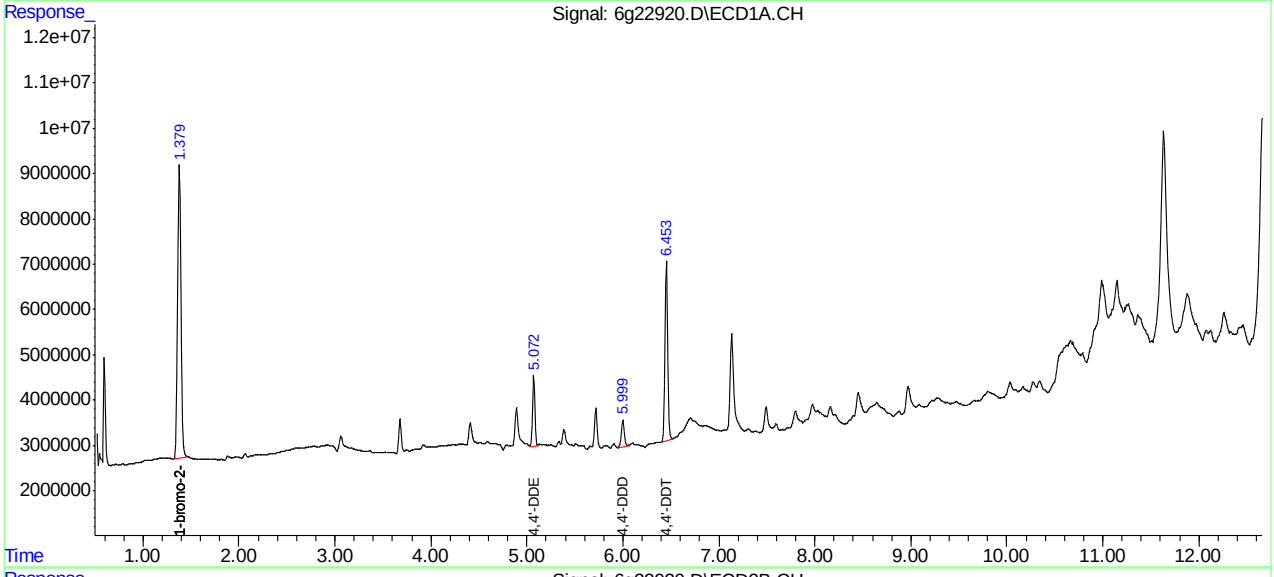
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

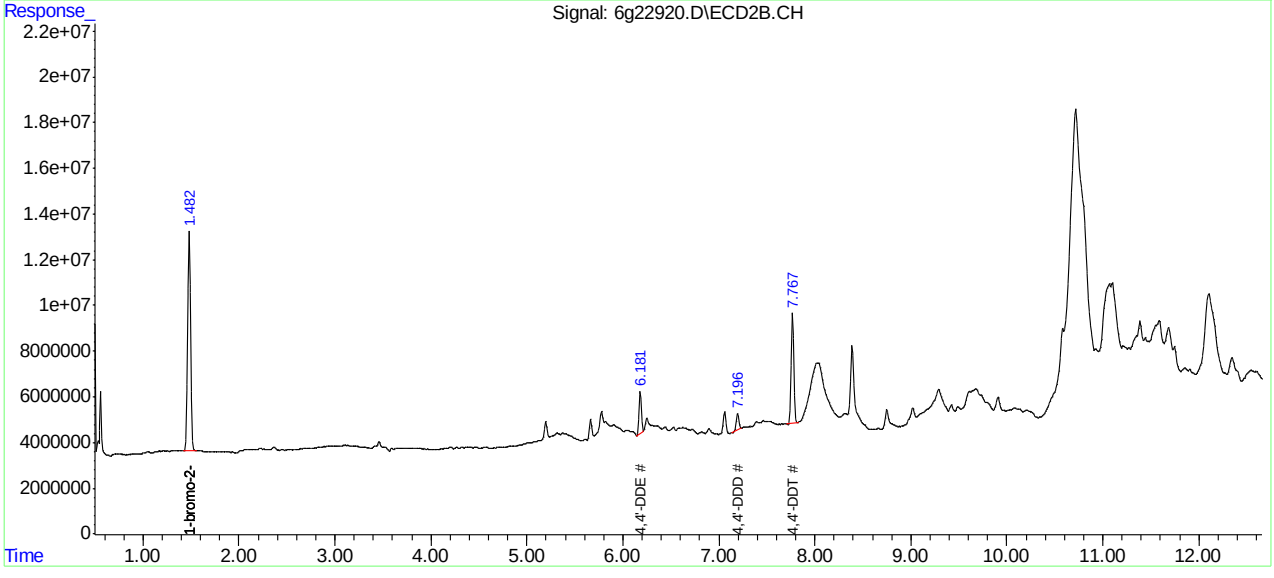
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\684\
Data File : 6g22920.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 May 2015 12:48 pm
Operator : yvelandd
Sample : jb94209-3
Misc : op83920,g6g684,15.3,,,10,100
ALS Vial : 58 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 13:12:05 2015
Quant Method : C:\MSDCHEM\1\METHODS\6PST675.M
Quant Title : PEST/PCB
QLast Update : Mon May 04 10:28:16 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations
APPROVED
(compounds with "m" flag)
Owen McKenna
05/14/15 15:01

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56093.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 11:15 am
Operator : yvelandd
Sample : jb94209-4
Misc : op83920,g4g1469,15.0,,,10,1
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 12:23:30 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 07 09:38:46 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2...	1.771	1.969	138.1E6	183.6E6	50.000	50.000
25) I 1-bromo-2...	1.771	1.969	138.1E6	183.6E6	50.000	50.000
31) I 1-bromo-2...	1.771	1.969	138.1E6	183.6E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	2.214	2.623	74180773	100.4E6	31.265	31.851
Spiked Amount	40.000	Range	30 - 150	Recovery	= 78.16%	79.63%
24) SA Decachlor...	9.108	10.790	71284547	53038980	32.800	21.993m#
Spiked Amount	40.000			Recovery	= 82.00%	54.98%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

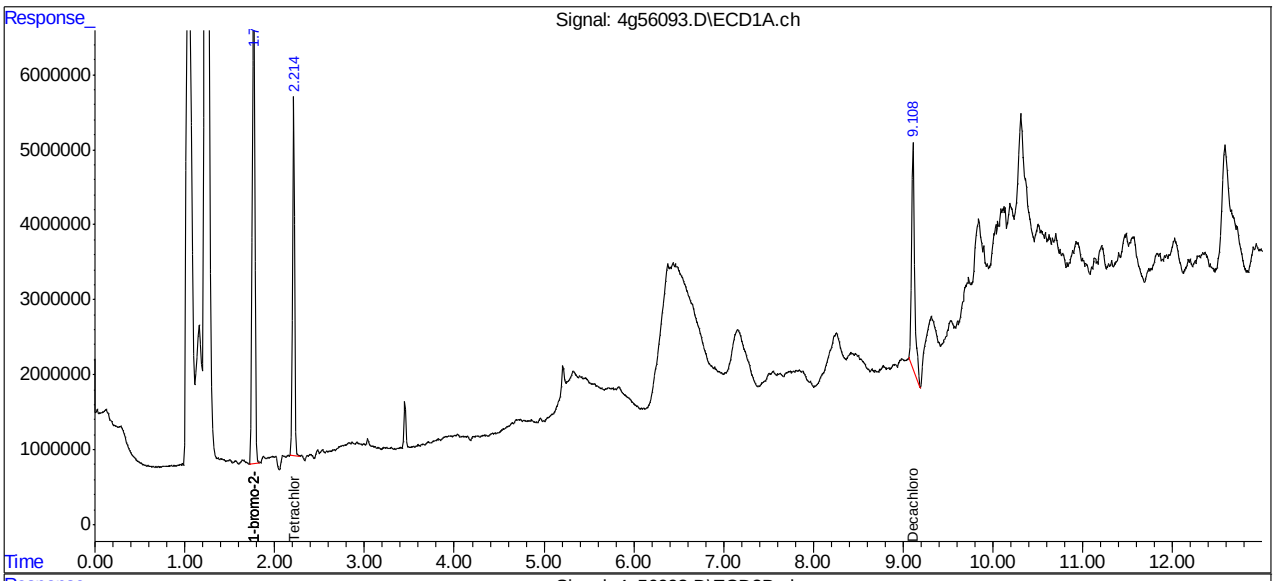
11.1.5
11

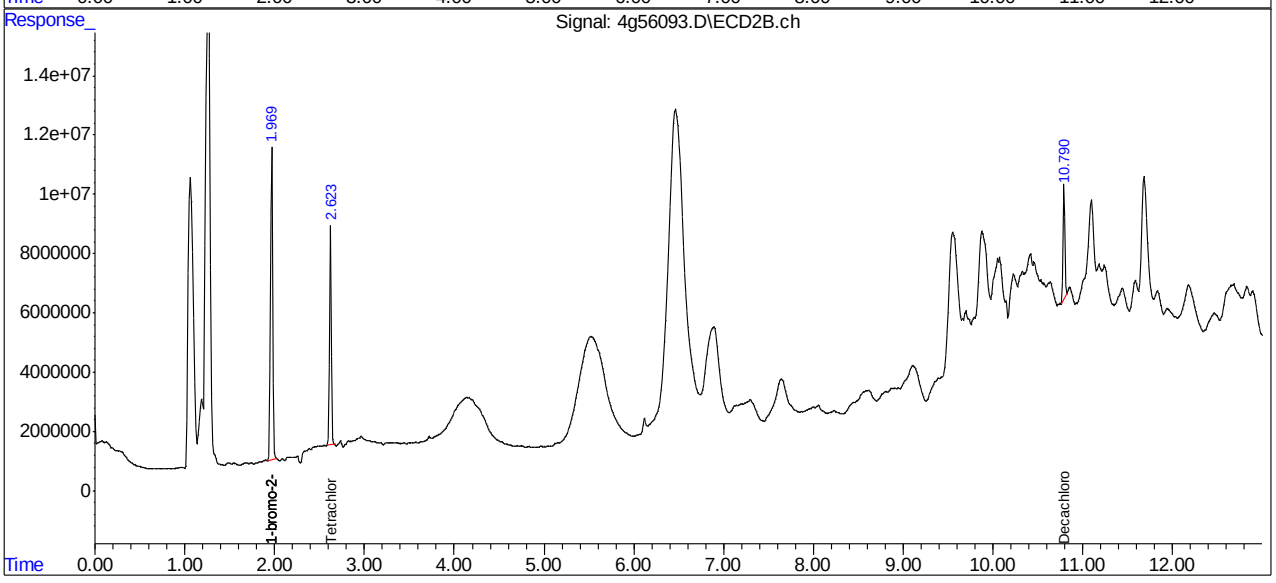
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56093.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 11:15 am
Operator : yvelandd
Sample : jb94209-4
Misc : op83920,g4g1469,15.0,,,10,1
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 12:23:30 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 07 09:38:46 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations
APPROVED
(compounds with "m" flag)
Owen McKenna
05/14/15 17:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56094.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 11:29 am
Operator : yvelandd
Sample : jb94209-5
Misc : op83920,g4g1469,16.3,,,10,1
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 12:30:00 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 07 09:38:46 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.771	1.970	155.8E6	168.2E6	50.000	50.000
25) I	1-bromo-2...	1.771	1.970	155.8E6	168.2E6	50.000	50.000
31) I	1-bromo-2...	1.771	1.970	155.8E6	168.2E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.215	2.623	67573025	69233820	25.248	23.971m
Spiked Amount		40.000	Range	30 - 150	Recovery	= 63.12%	59.93%
24) SA	Decachlor...	9.143f	10.785	329.0E6	423.3E6	134.221m	191.618m#
Spiked Amount		40.000			Recovery	= 335.55%	479.04%
	Target Compounds						
9) B	Heptachlo...	4.241	5.296	16629575	10408310	5.921m	3.323m#
10) B	gamma-Chl...	4.382	5.570	404.4E6	512.3E6	141.565	161.830m
11) B	alpha-Chl...	4.540	5.786	488.8E6	562.5E6	173.817	180.073m
13) B	4,4'-DDE	4.642	6.040	17521441	23560720	6.983m	8.315m
16) A	4,4'-DDD	5.434	6.959	58436836	73359227	25.483	31.001
18) MA	4,4'-DDT	5.805f	7.486	59893722	29355918	27.738m	15.479m#

SemiQuant Compounds - Not Calibrated on this Instrument

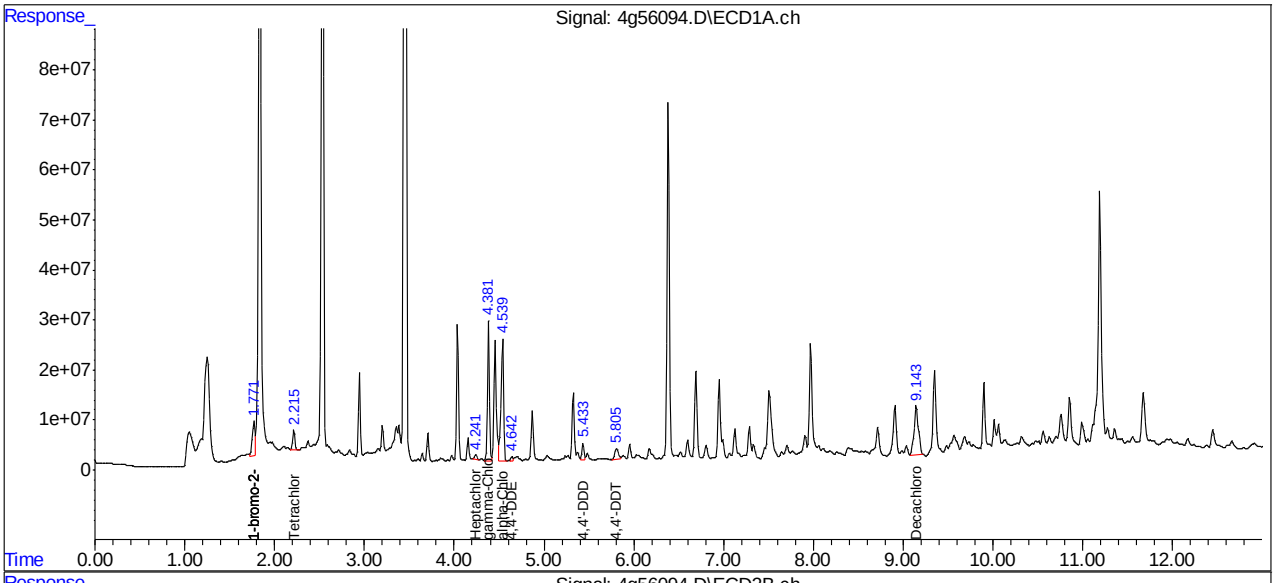
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

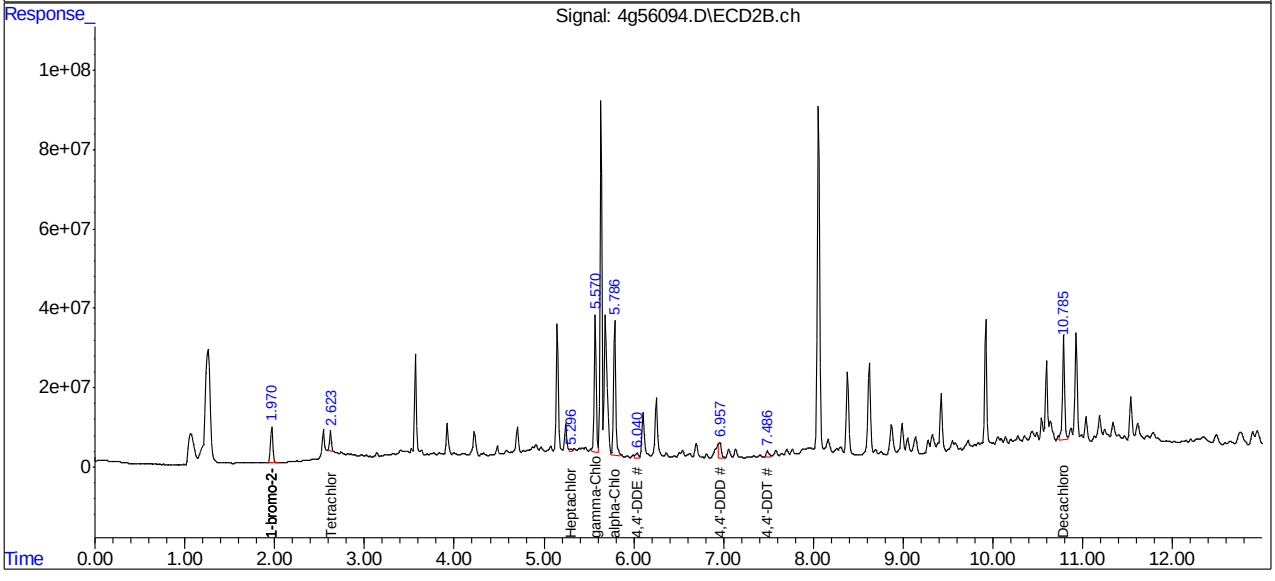
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56094.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 11:29 am
Operator : yvelandd
Sample : jb94209-5
Misc : op83920,g4g1469,16.3,,,10,1
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 12:30:00 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 07 09:38:46 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna 05/14/15 17:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56110.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 4:12 pm
Operator : yvelandd
Sample : jb94209-5
Misc : op83920,g4g1469,16.3,,,10,5
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 16:48:35 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 14 15:13:36 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.771	1.970	120.5E6	159.2E6	50.000	50.000
25) I	1-bromo-2...	1.771	1.970	120.5E6	159.2E6	50.000	50.000
31) I	1-bromo-2...	1.771	1.970	120.5E6	159.2E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.216	2.623	13037597	13962297	6.296	5.108
Spiked Amount		40.000	Range	30 - 150	Recovery	= 15.74%#	12.77%#
24) SA	Decachlor...	9.141f	10.781	47932460	61389395	25.270m	29.365m
Spiked Amount		40.000			Recovery	= 63.18%	73.41%
	Target Compounds						
10) B	gamma-Chl...	4.382	5.568	79151565	84127183	35.814	28.082
11) B	alpha-Chl...	4.540	5.784	99612378	110.6E6	45.779	37.405m
16) A	4,4'-DDD	5.434	6.954	12275038	21763761	6.918	9.718m#
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

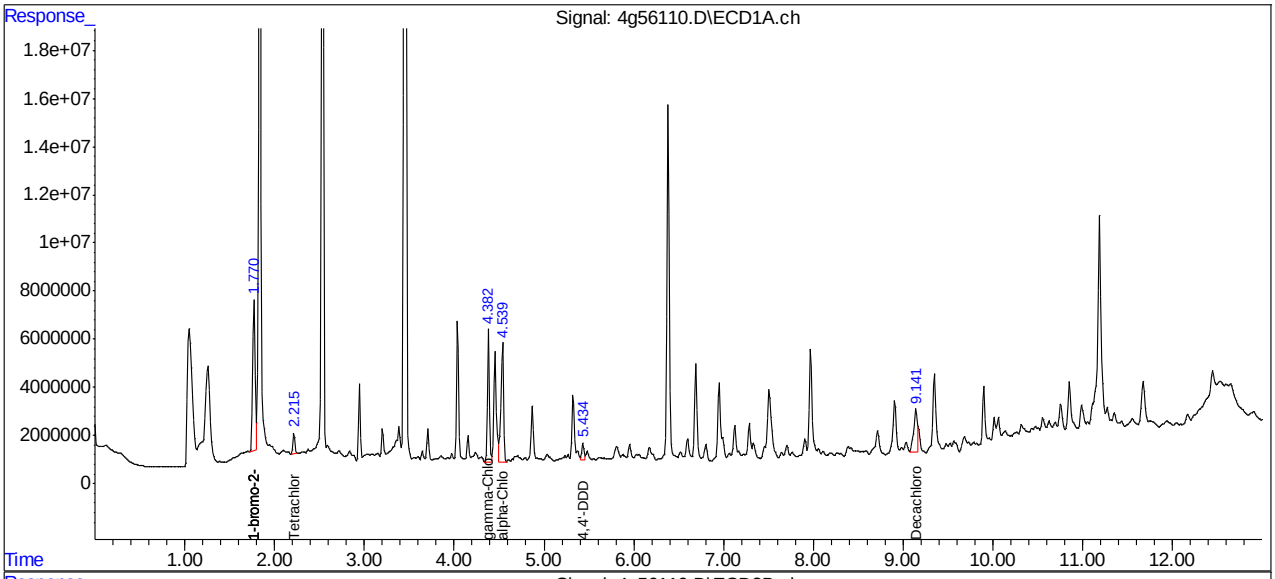
11.1.7 11

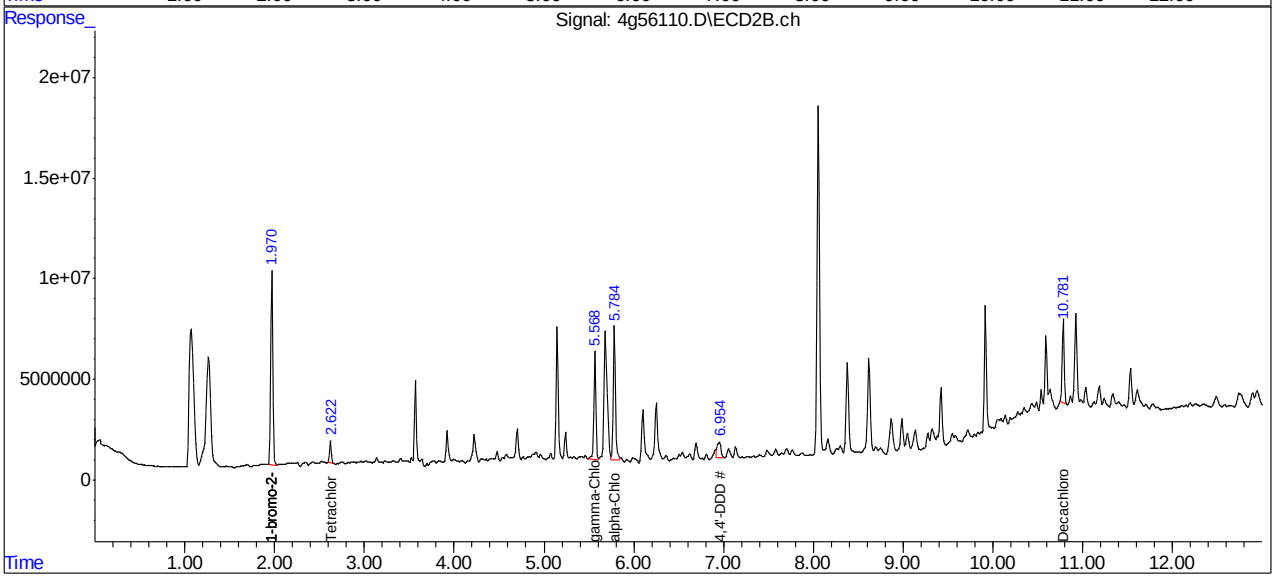
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56110.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 4:12 pm
Operator : yvelandd
Sample : jb94209-5
Misc : op83920,g4g1469,16.3,,,10,5
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 16:48:35 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 14 15:13:36 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations
APPROVED
(compounds with "m" flag)
Owen McKenna
05/14/15 15:01

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56095.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 11:44 am
Operator : yvelandd
Sample : jb94209-6
Misc : op83920,g4g1469,15.4,,,10,1
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 12:40:39 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 07 09:38:46 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2...	1.771	1.970	135.7E6	181.5E6	50.000	50.000
25) I 1-bromo-2...	1.771	1.970	135.7E6	181.5E6	50.000	50.000
31) I 1-bromo-2...	1.771	1.970	135.7E6	181.5E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	2.214	2.623	75736020	103.7E6	32.475	33.262
Spiked Amount	40.000	Range	30 - 150	Recovery	= 81.19%	83.16%
24) SA Decachlor...	9.108	10.793	68291122	58969213	31.969	24.737m
Spiked Amount	40.000			Recovery	= 79.92%	61.84%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

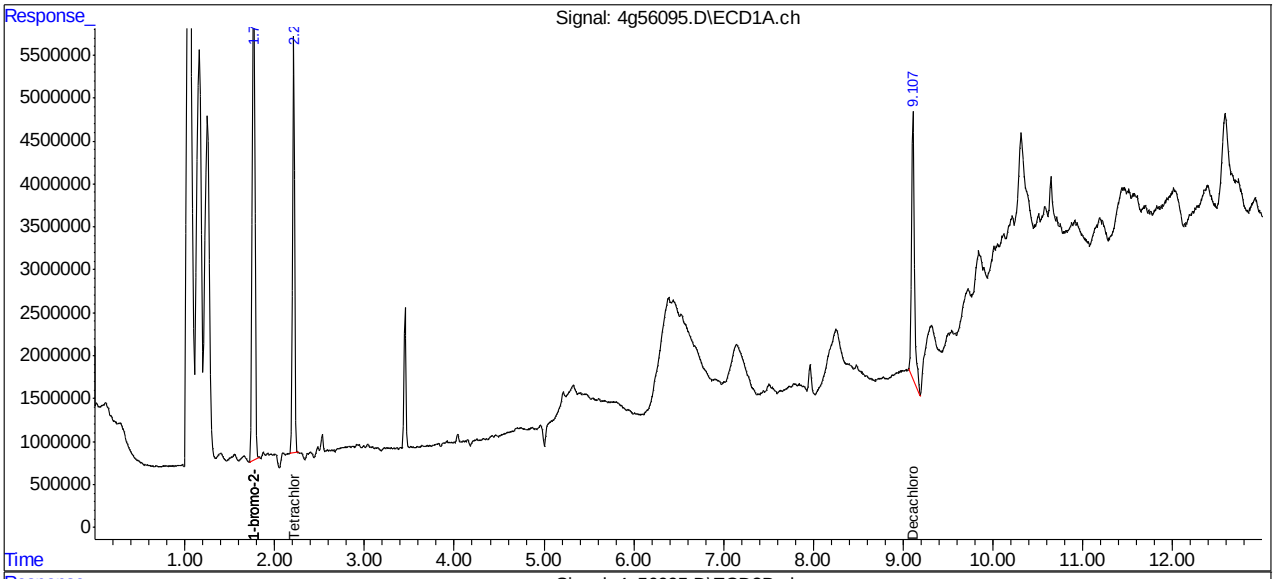
11.1.8
11

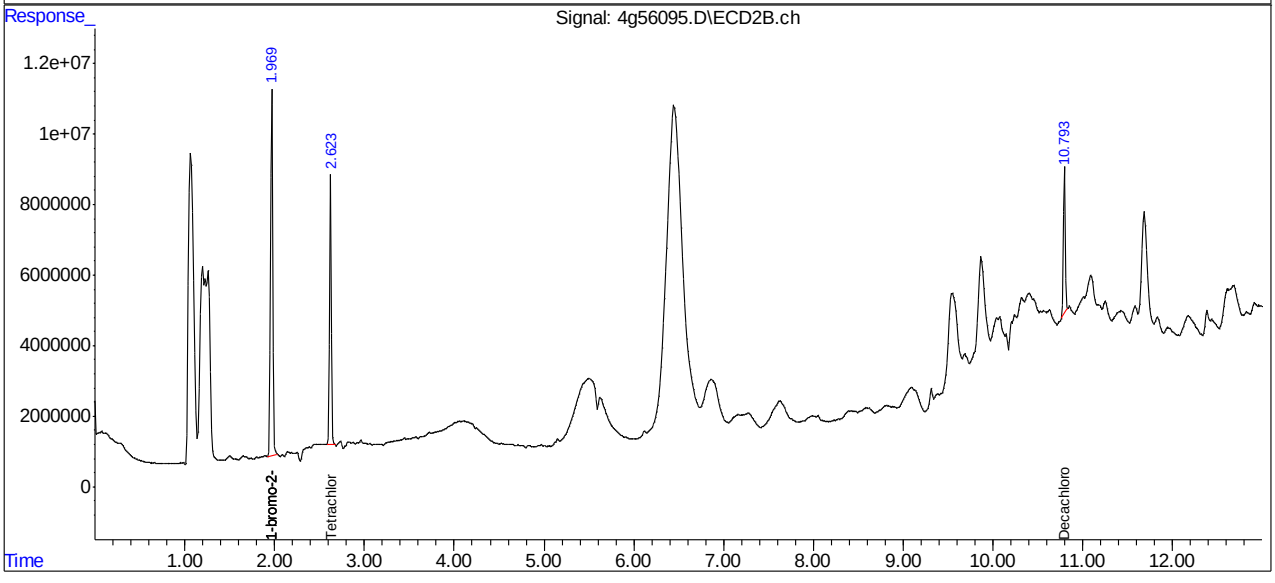
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56095.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 11:44 am
Operator : yvelandd
Sample : jb94209-6
Misc : op83920,g4g1469,15.4,,,10,1
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 12:40:39 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 07 09:38:46 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna
05/14/15 15:01

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56096.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 11:58 am
Operator : yvelandd
Sample : jb94209-7
Misc : op83920,g4g1469,16.8,,,10,1
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 12:43:18 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 07 09:38:46 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2...	1.771	1.969	141.3E6	193.2E6	50.000	50.000
25) I 1-bromo-2...	1.771	1.969	141.3E6	193.2E6	50.000	50.000
31) I 1-bromo-2...	1.771	1.969	141.3E6	193.2E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	2.214	2.622	72774230	97267265	29.978	29.319
Spiked Amount 40.000	Range	30 - 150	Recovery	=	74.95%	73.30%
24) SA Decachlor...	9.107	10.788	90520763	98338183	40.709m	38.754m
Spiked Amount 40.000			Recovery	=	101.77%	96.89%
Target Compounds						
13) B 4,4'-DDE	4.644	6.038	3865335	4725143	1.698m	1.452m
16) A 4,4'-DDD	5.434	6.939f	6240523	16441531	3.000m	6.049 #
18) MA 4,4'-DDT	5.836	7.484	20523786	26691581	10.479m	12.252m
SemiQuant Compounds - Not Calibrated on this Instrument						

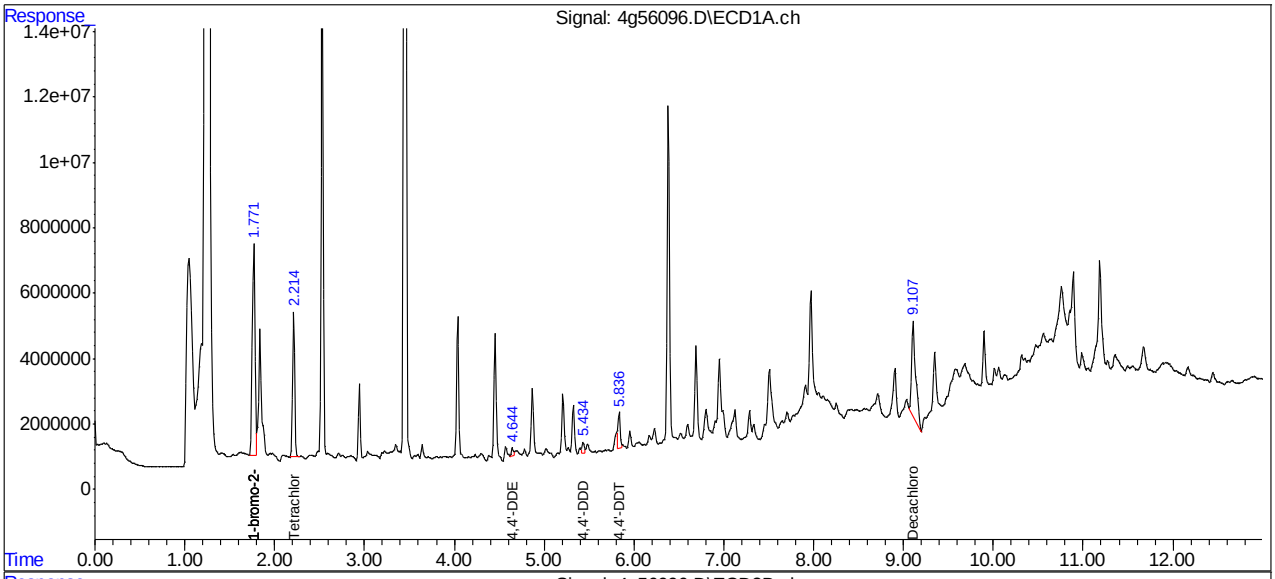
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

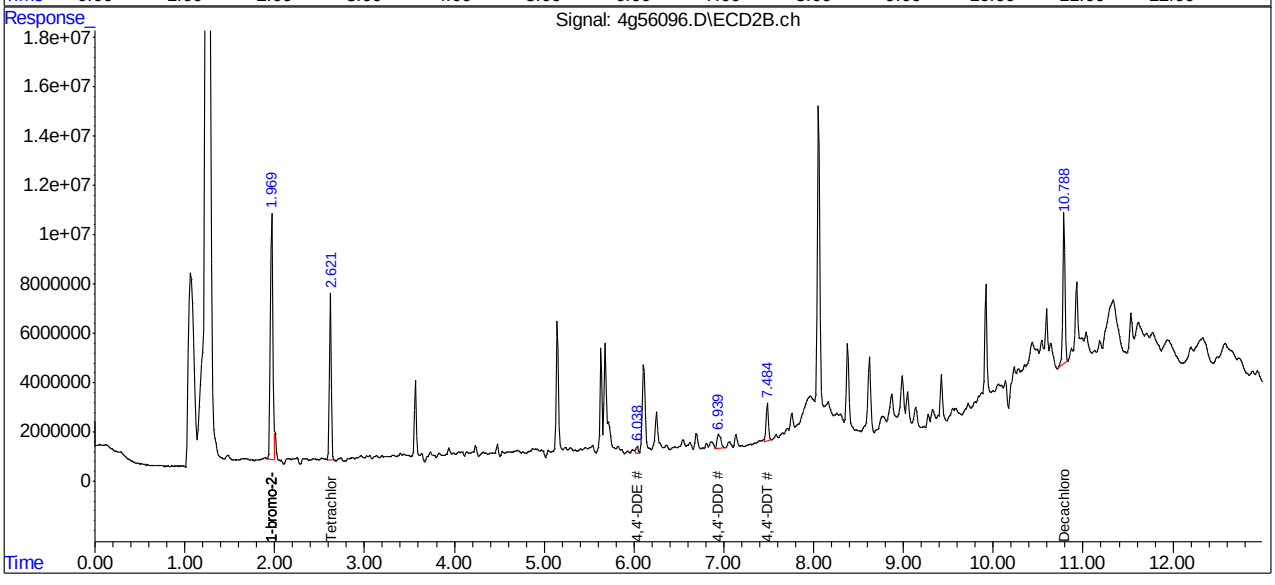
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56096.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 11:58 am
Operator : yvelandd
Sample : jb94209-7
Misc : op83920,g4g1469,16.8,,,10,1
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 12:43:18 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 07 09:38:46 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna
05/14/15 15:01

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56097.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 12:13 pm
Operator : yvelandd
Sample : jb94209-8
Misc : op83920,g4g1469,16.0,,,10,1
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 12:52:31 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 07 09:38:46 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2...	1.772	1.970	152.6E6	207.4E6	50.000	50.000
25) I 1-bromo-2...	1.772	1.970	152.6E6	207.4E6	50.000	50.000
31) I 1-bromo-2...	1.772	1.970	152.6E6	207.4E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	2.216	2.623	80238060	111.1E6	30.597	31.205
Spiked Amount	40.000	Range	30 - 150	Recovery	= 76.49%	78.01%
24) SA Decachlor...	9.108	10.790	61435237	61094676	25.575	22.431m
Spiked Amount	40.000			Recovery	= 63.94%	56.08%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.1.10

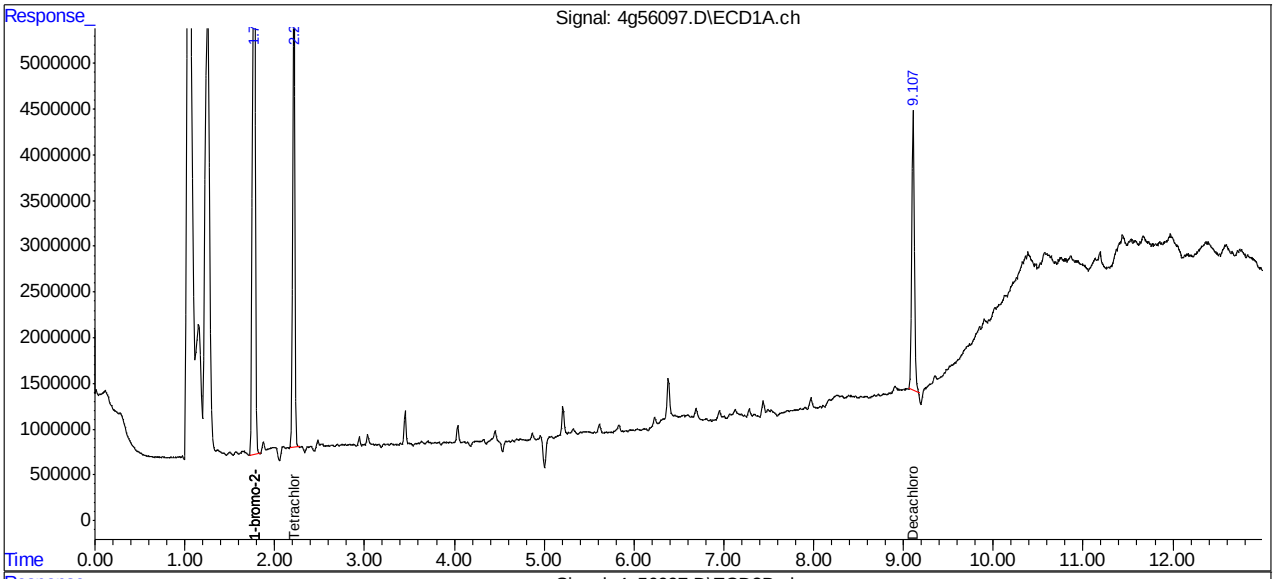
11

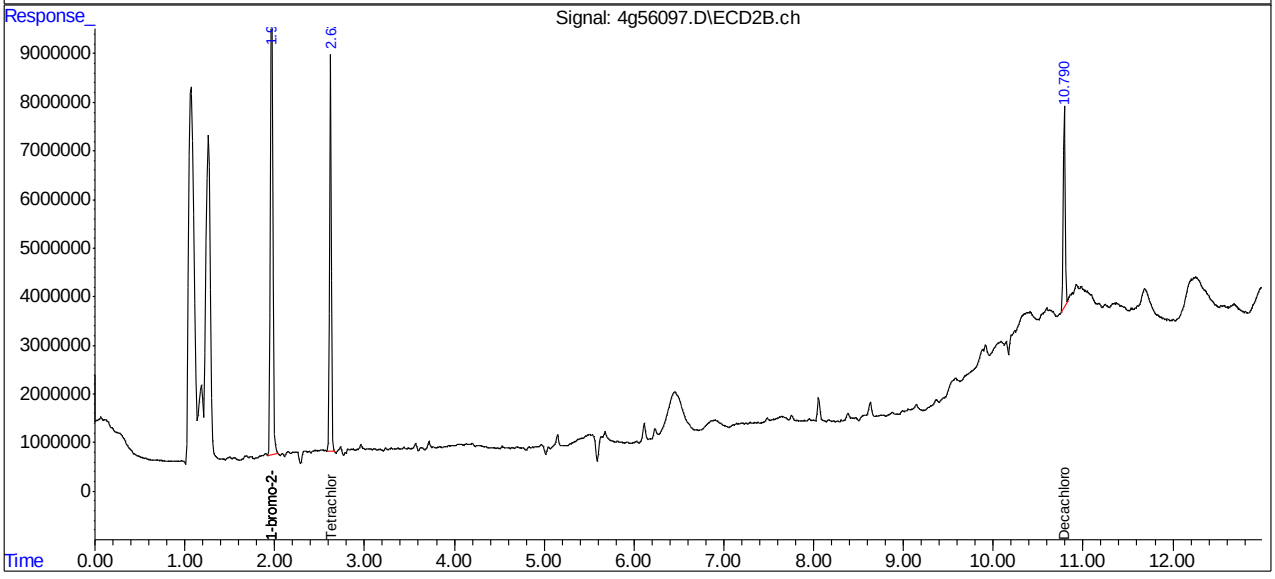
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56097.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 12:13 pm
Operator : yvelandd
Sample : jb94209-8
Misc : op83920,g4g1469,16.0,,,10,1
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 12:52:31 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 07 09:38:46 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations
APPROVED
(compounds with "m" flag)
Owen McKenna
05/14/15 15:01

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56098.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 12:27 pm
Operator : yvelandd
Sample : jb94209-9
Misc : op83920,g4g1469,15.6,,,10,1
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 13:02:51 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 07 09:38:46 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.773	1.970	128.0E6	164.2E6	50.000	50.000
25) I	1-bromo-2...	1.773	1.970	128.0E6	164.2E6	50.000	50.000
31) I	1-bromo-2...	1.773	1.970	128.0E6	164.2E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.216	2.623	61368534	77290415	27.909m	27.417m
Spiked Amount		40.000	Range	30 - 150	Recovery	= 69.77%	68.54%
24) SA	Decachlor...	9.145f	10.784	241.4E6	404.7E6	119.858m	187.697m#
Spiked Amount		40.000			Recovery	= 299.65%	469.24%
	Target Compounds						
7) B	delta-BHC	3.079	3.992f	6011087	7385233	2.491m	2.411m
9) B	Heptachlo...	4.236	5.290	9786772	13252744	4.241	4.334
10) B	gamma-Chl...	4.384	5.569	12188931	24395786	5.194	7.895m#
11) B	alpha-Chl...	4.538	5.786	17188513	22674404	7.439	7.436
13) B	4,4'-DDE	4.642	6.039	11113398	9862718	5.391	3.566m#
16) A	4,4'-DDD	5.437	6.937f	24699578	64446314	13.110	27.902 #
18) MA	4,4'-DDT	5.833	7.485	45357173	86296223	25.567	46.618 #

SemiQuant Compounds - Not Calibrated on this Instrument

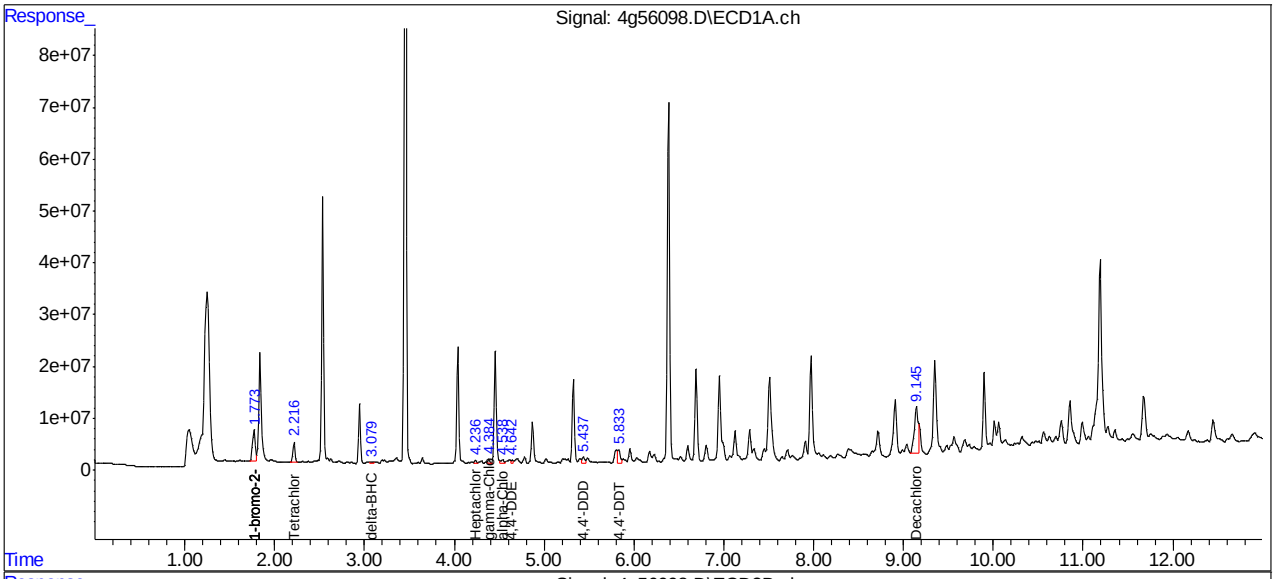
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

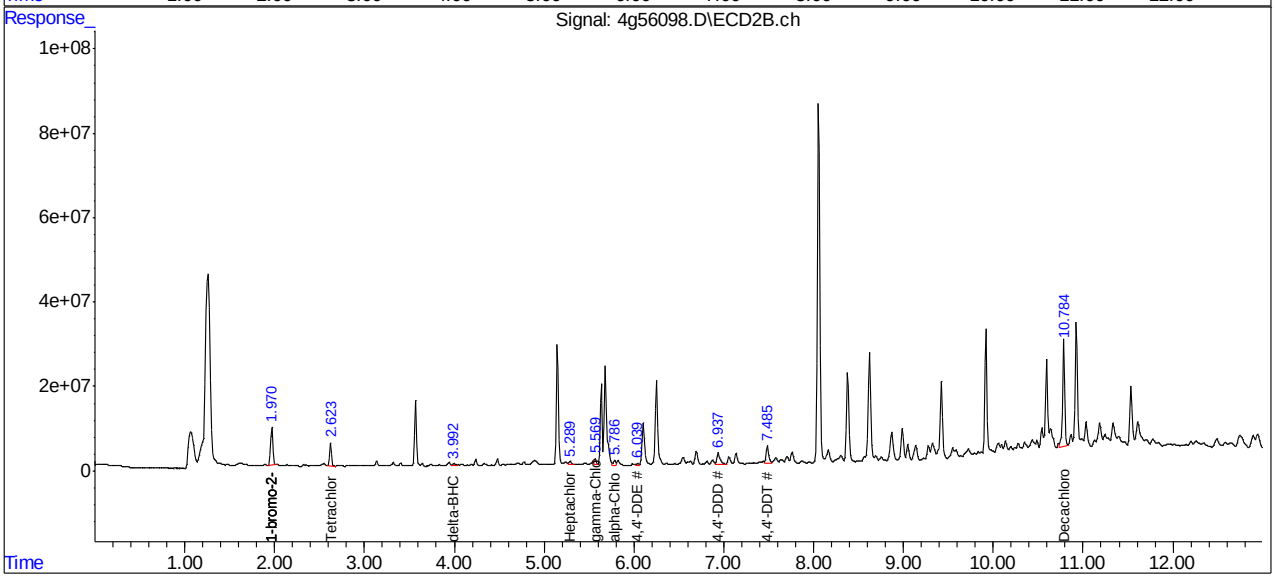
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56098.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 12:27 pm
Operator : yvelandd
Sample : jb94209-9
Misc : op83920,g4g1469,15.6,,,10,1
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 13:02:51 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 07 09:38:46 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna
05/14/15 15:01

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56099.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 12:42 pm
Operator : yvelandd
Sample : jb94209-10
Misc : op83920,g4g1469,16.0,,,10,1
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 13:06:09 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 07 09:38:46 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2...	1.771	1.970	144.4E6	193.6E6	50.000	50.000
25) I 1-bromo-2...	1.771	1.970	144.4E6	193.6E6	50.000	50.000
31) I 1-bromo-2...	1.771	1.970	144.4E6	193.6E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	2.214	2.623	68768279	94361091	27.723	28.379
Spiked Amount 40.000	Range 30 - 150		Recovery =		69.31%	70.95%
24) SA Decachlor...	9.107	10.790	63775699	52171912	28.069	20.514m#
Spiked Amount 40.000			Recovery =		70.17%	51.29%
Target Compounds						
18) MA 4,4'-DDT	5.832	7.486	6283957	9390013	3.140m	4.301 #
SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

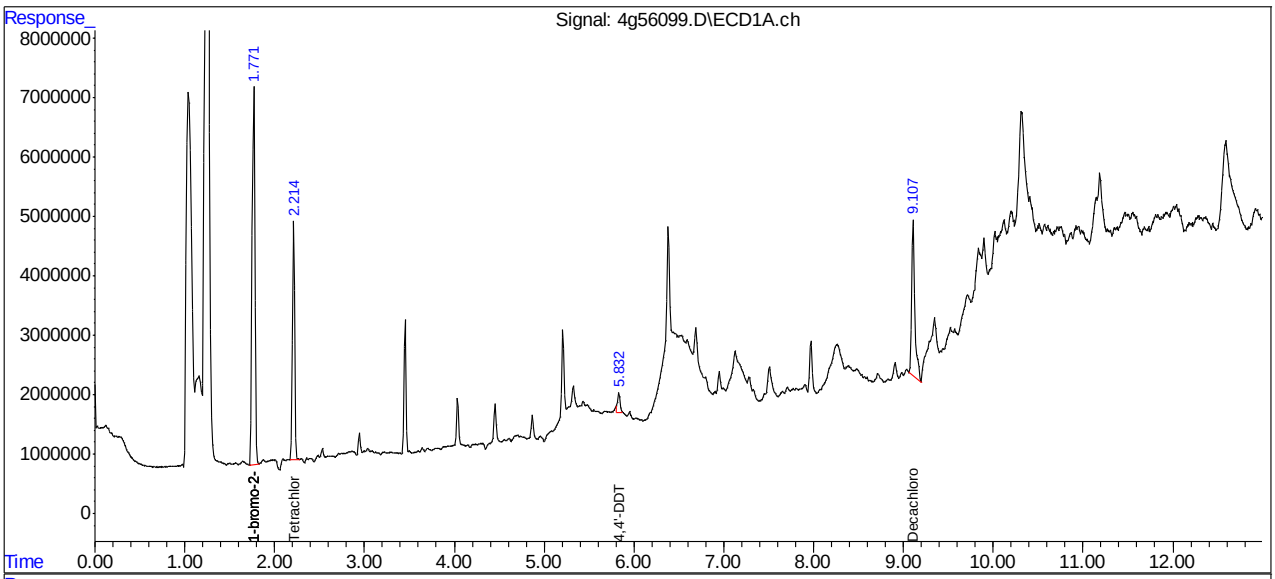
11.1.12
11

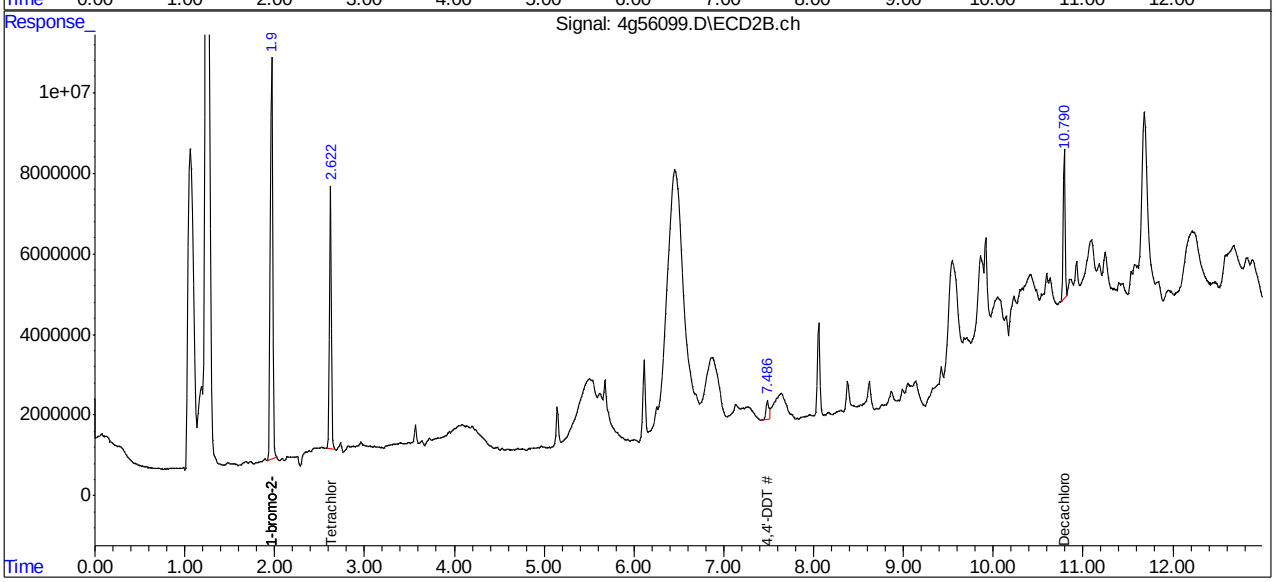
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56099.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 12:42 pm
Operator : yvelandd
Sample : jb94209-10
Misc : op83920,g4g1469,16.0,,,10,1
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 13:06:09 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 07 09:38:46 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna
05/14/15 16:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56100.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 12:56 pm
Operator : yvelandd
Sample : jb94209-11
Misc : op83920,g4g1469,15.4,,,10,1
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 15:01:18 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 14 10:13:14 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.773	1.971	131.4E6	174.7E6	50.000	50.000
25) I	1-bromo-2...	1.773	1.971	131.4E6	174.7E6	50.000	50.000
31) I	1-bromo-2...	1.773	1.971	131.4E6	174.7E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.217	2.624	61387235	73583760	27.184	24.526
Spiked Amount		40.000	Range	30 - 150	Recovery	= 67.96%	61.31%
24) SA	Decachlor...	9.143f	10.786	411.5E6	465.7E6	198.928m	202.923m
Spiked Amount		40.000			Recovery	= 497.32%	507.31%
	Target Compounds						
13) B	4,4'-DDE	4.643	6.039	4265979	4910296	2.015m	1.668m
16) A	4,4'-DDD	5.436	6.937f	34348012	46077020	17.751	18.744
21) A	Methoxychlor	6.596	8.693f	69292945	32955903	62.498m	30.571m#

SemiQuant Compounds - Not Calibrated on this Instrument

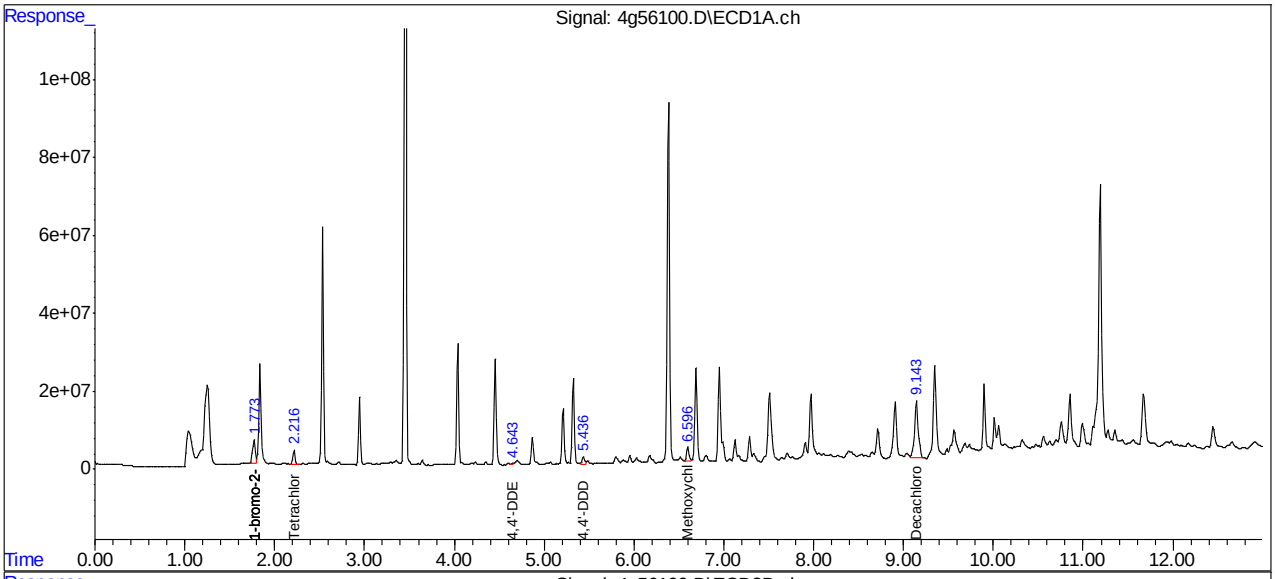
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

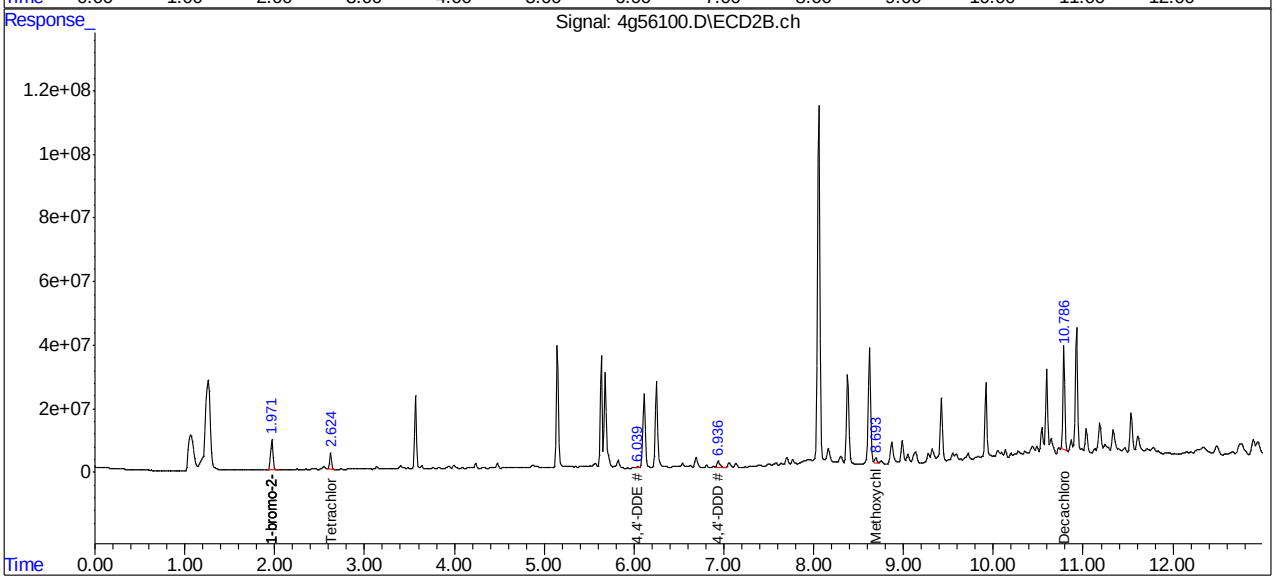
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56100.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 12:56 pm
Operator : yvelandd
Sample : jb94209-11
Misc : op83920,g4g1469,15.4,,,10,1
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 15:01:18 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 14 10:13:14 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna
05/14/15 16:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56101.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 1:11 pm
Operator : yvelandd
Sample : jb94209-12
Misc : op83920,g4g1469,15.0,,,10,1
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 15:03:39 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 14 10:13:14 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2...	1.772	1.970	150.5E6	205.0E6	50.000	50.000
25) I 1-bromo-2...	1.772	1.970	150.5E6	205.0E6	50.000	50.000
31) I 1-bromo-2...	1.772	1.970	150.5E6	205.0E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	2.216	2.623	73908481	98751842	28.579	28.048
Spiked Amount	40.000	Range	30 - 150	Recovery	= 71.45%	70.12%
24) SA Decachlor...	9.108	10.789	62498709	69510120	26.383m	25.812m
Spiked Amount	40.000			Recovery	= 65.96%	64.53%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

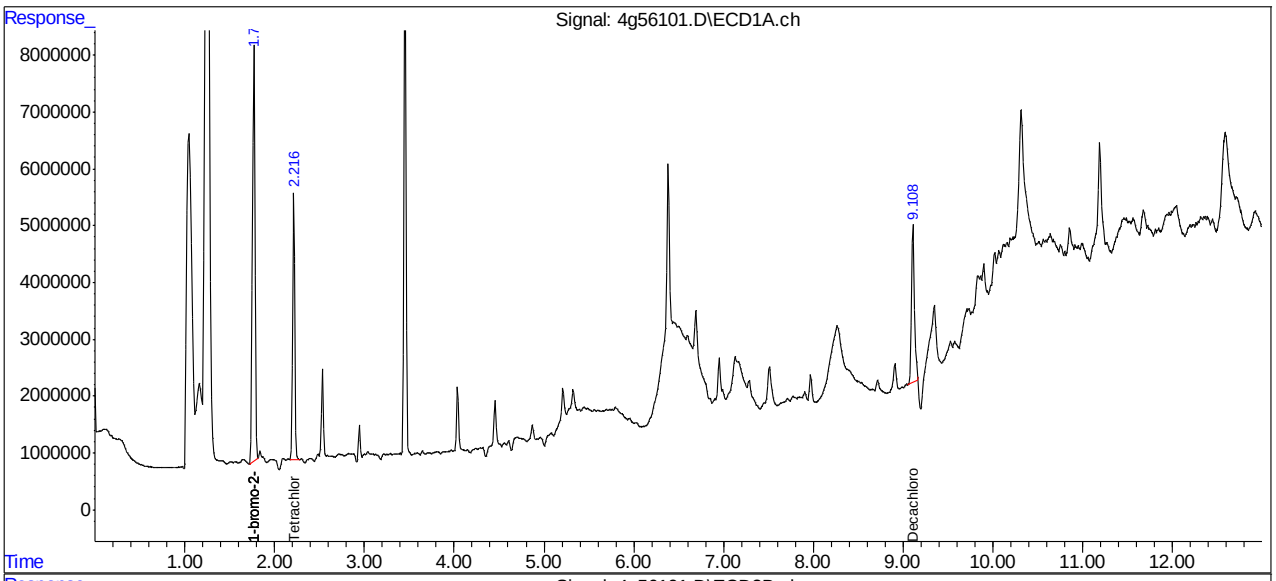
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

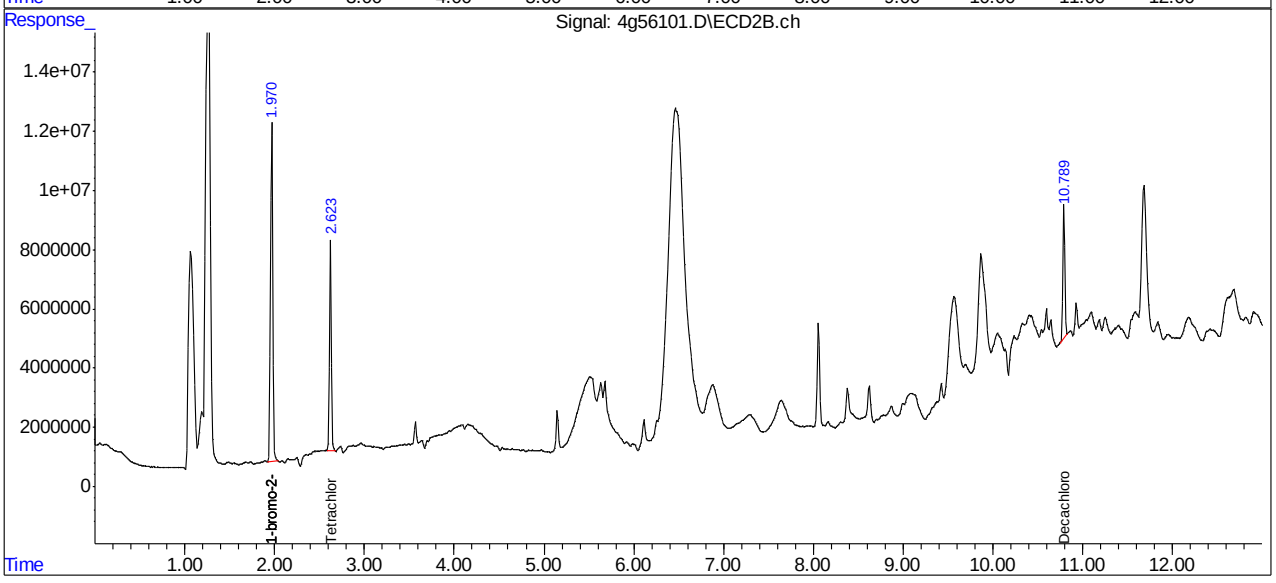
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56101.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 1:11 pm
Operator : yvelandd
Sample : jb94209-12
Misc : op83920,g4g1469,15.0,,,10,1
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 15:03:39 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 14 10:13:14 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3675\1G111541.D\ECD1A.CH Vial: 18
Signal #2 : C:\MSDCHEM\1\DATA\1G3675\1G111541.D\ECD2B.CH
Acq On : 5-12-15 06:30:40 PM Operator: rebeccak
Sample : jb94209-13 Inst : GC1G
Misc : op83792,G1G3675,300,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 13 11:39 2015 Quant Results File: 1PST3672.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3672.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 11 08:10:50 2015
Response via : Initial Calibration
DataAcq Meth : 1PST3672.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2-nitrob	1.57	1.76	201.0E6	992.7E6	50.000	50.000
25) I 1-bromo-2-nitrob	1.57	1.76	201.0E6	992.7E6	50.000	50.000
31) I 1-bromo-2-nitrob	1.57	1.76	201.0E6	992.7E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachloro-m-xy	2.28	2.70	142.2E6	601.1E6	33.666	36.370
Spiked Amount 40.000 Range 30 - 150 Recovery =					84.16%	90.92%
24) SA Decachlorobiphen	9.58	10.62	79345038	255.7E6	21.132	20.815
Spiked Amount 40.000 Recovery =					52.83%	52.04%
Target Compounds						

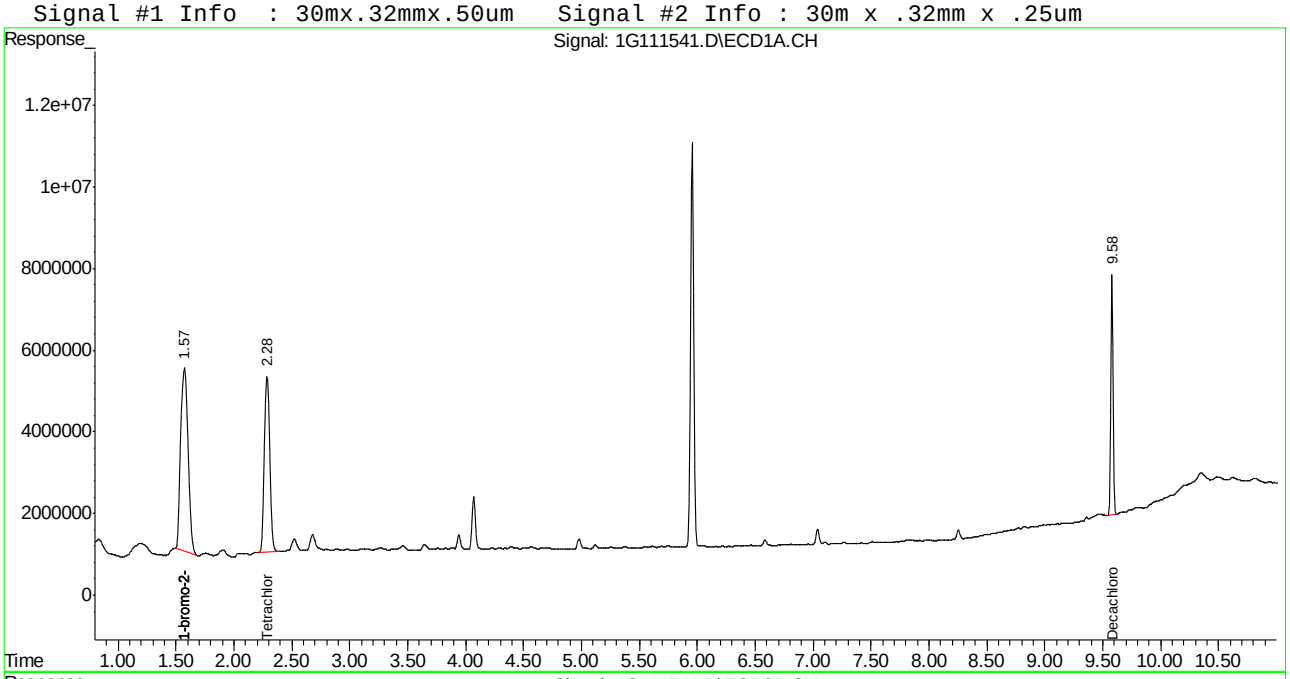
(f)=RT Delta > 1/2 Window (m)=manual int.
1G111541.D 1PST3672.M Wed May 13 11:39:33 2015 RPT1

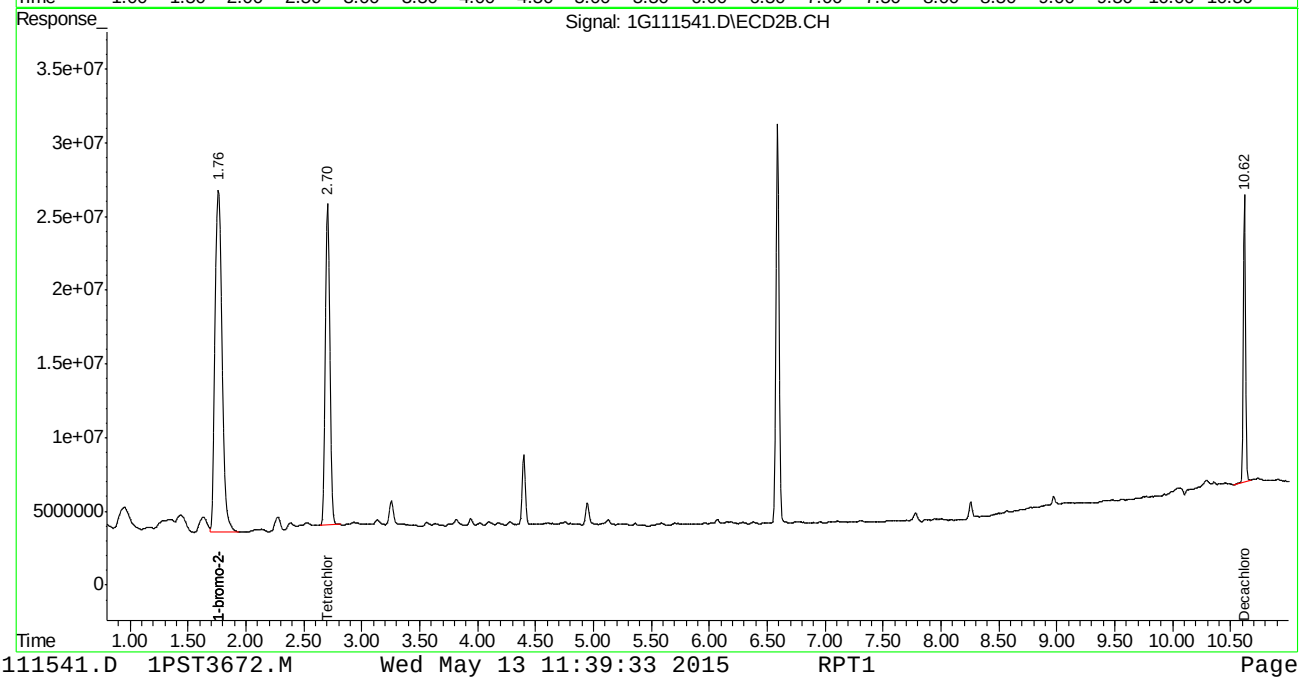
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3675\1G111541.D\ECD1A.CH Vial: 18
Signal #2 : C:\MSDCHEM\1\DATA\1G3675\1G111541.D\ECD2B.CH
Acq On : 5-12-15 06:30:40 PM Operator: rebeccak
Sample : jb94209-13 Inst : GC1G
Misc : op83792,G1G3675,300,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 13 11:39 2015 Quant Results File: 1PST3672.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3672.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 11 08:10:50 2015
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3672.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3675\1G111544.D\ECD1A.CH Vial: 21
Signal #2 : C:\MSDCHEM\1\DATA\1G3675\1G111544.D\ECD2B.CH
Acq On : 5-12-15 07:17:59 PM Operator: rebeccak
Sample : jb94209-14 Inst : GC1G
Misc : op83792,G1G3675,300,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 13 11:44 2015 Quant Results File: 1PST3672.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3672.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 11 08:10:50 2015
Response via : Initial Calibration
DataAcq Meth : 1PST3672.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2-nitrob	1.57	1.76	197.8E6	951.7E6	50.000	50.000
25) I 1-bromo-2-nitrob	1.57	1.76	197.8E6	951.7E6	50.000	50.000
31) I 1-bromo-2-nitrob	1.57	1.76	197.8E6	951.7E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachloro-m-xy	2.29	2.70	140.4E6	583.2E6	33.772	36.806
Spiked Amount 40.000	Range 30 - 150		Recovery =		84.43%	92.01%
24) SA Decachlorobiphen	9.58	10.62	95791708	295.9E6	25.918	25.126
Spiked Amount 40.000			Recovery =		64.80%	62.81%
Target Compounds						

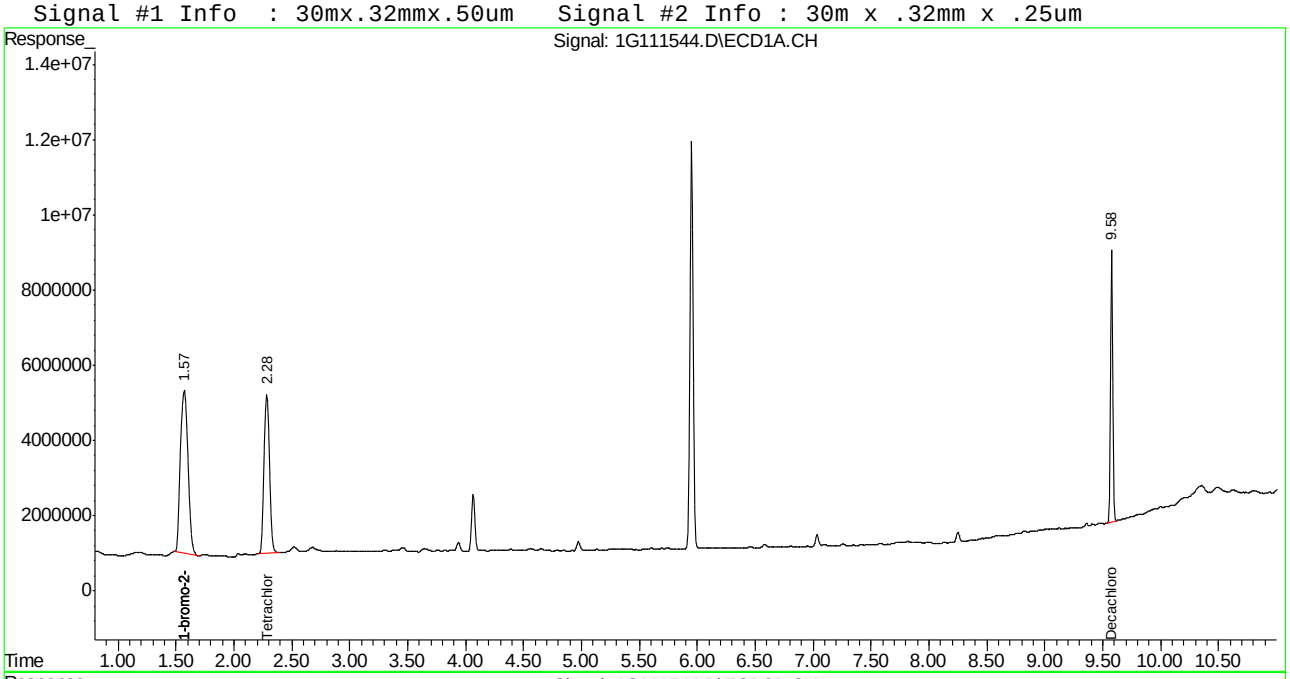
(f)=RT Delta > 1/2 Window (m)=manual int.
1G111544.D 1PST3672.M Wed May 13 11:44:34 2015 RPT1

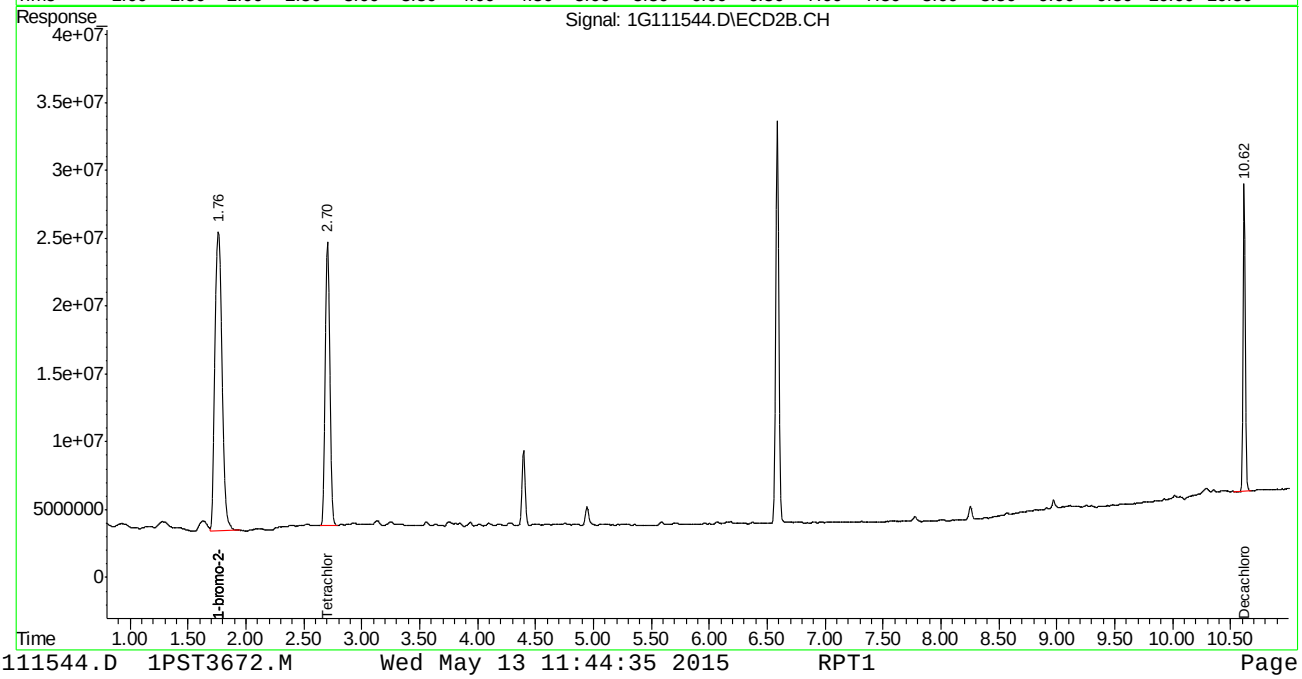
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3675\1G111544.D\ECD1A.CH Vial: 21
Signal #2 : C:\MSDCHEM\1\DATA\1G3675\1G111544.D\ECD2B.CH
Acq On : 5-12-15 07:17:59 PM Operator: rebeccak
Sample : jb94209-14 Inst : GC1G
Misc : op83792,G1G3675,300,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 13 11:44 2015 Quant Results File: 1PST3672.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3672.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 11 08:10:50 2015
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3672.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3675\1G111545.D\ECD1A.CH Vial: 22
Signal #2 : C:\MSDCHEM\1\DATA\1G3675\1G111545.D\ECD2B.CH
Acq On : 5-12-15 07:33:30 PM Operator: rebeccak
Sample : jb94209-15 Inst : GC1G
Misc : op83792,G1G3675,300,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 13 11:49 2015 Quant Results File: 1PST3672.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3672.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed May 13 10:35:45 2015
Response via : Initial Calibration
DataAcq Meth : 1PST3672.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2-nitrob	1.58	1.77	246.1E6	891.2E6	50.000	50.000
25) I 1-bromo-2-nitrob	1.58	1.77	246.1E6	891.2E6	50.000	50.000
31) I 1-bromo-2-nitrob	1.58	1.77	246.1E6	891.2E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachloro-m-xy	2.29	2.71	112.6E6	542.2E6	21.759	36.541
Spiked Amount 40.000 Range 30 - 150 Recovery =					54.40%	91.35%
24) SA Decachlorobiphen	9.58	10.62	56340390	193.7E6	12.253	17.564
Spiked Amount 40.000 Recovery =					30.63%	43.91%
Target Compounds						

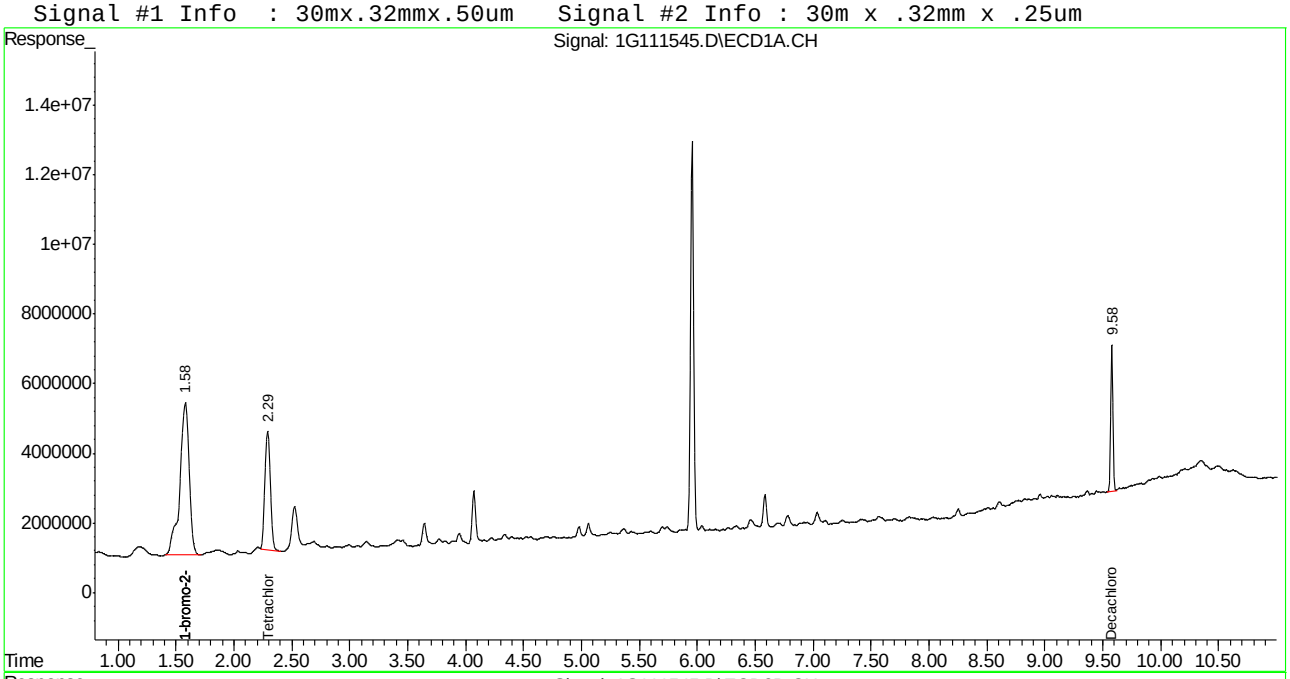
(f)=RT Delta > 1/2 Window (m)=manual int.
1G111545.D 1PST3672.M Wed May 13 11:49:26 2015 RPT1

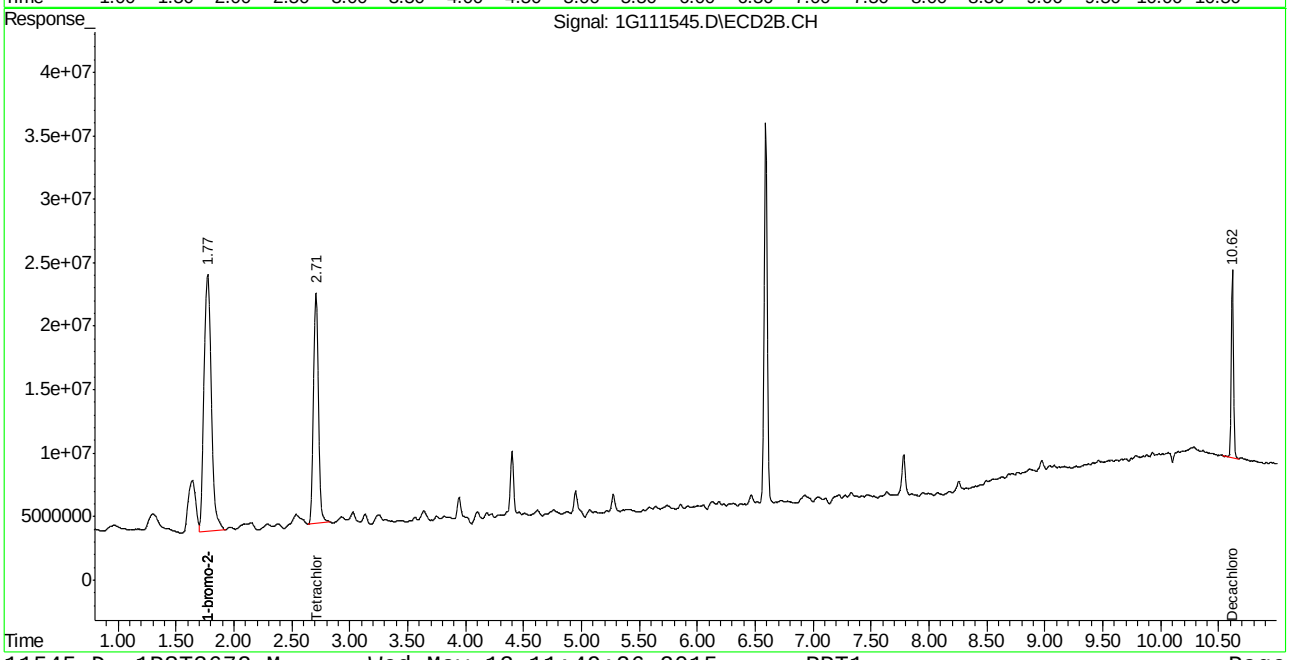
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3675\1G111545.D\ECD1A.CH Vial: 22
Signal #2 : C:\MSDCHEM\1\DATA\1G3675\1G111545.D\ECD2B.CH
Acq On : 5-12-15 07:33:30 PM Operator: rebeccak
Sample : jb94209-15 Inst : GC1G
Misc : op83792,G1G3675,300,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 13 11:49 2015 Quant Results File: 1PST3672.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3672.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed May 13 10:35:45 2015
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3672.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna 05/14/15 08:30

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3675\1G111546.D\ECD1A.CH Vial: 23
Signal #2 : C:\MSDCHEM\1\DATA\1G3675\1G111546.D\ECD2B.CH
Acq On    : 5-12-15 07:49:01 PM                    Operator: rebeccak
Sample    : jb94209-16                             Inst    : GC1G
Misc      : op83792,G1G3675,300,,,2,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 13 11:53 2015  Quant Results File: 1PST3672.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3672.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 11 08:10:50 2015
Response via : Initial Calibration
DataAcq Meth : 1PST3672.M

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.50um   Signal #2 Info : 30m x .32mm x .25um
```

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2-nitrob	1.58	1.77	210.7E6	1000.6E6	50.000	50.000
25) I 1-bromo-2-nitrob	1.58	1.77	210.7E6	1000.6E6	50.000	50.000
31) I 1-bromo-2-nitrob	1.58	1.77	210.7E6	1000.6E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachloro-m-xy	2.29	2.71	119.0E6	497.7E6	26.876	29.876
Spiked Amount 40.000	Range 30 - 150		Recovery =		67.19%	74.69%
24) SA Decachlorobiphen	9.58	10.62	72845024	238.0E6	18.502	19.219m
Spiked Amount 40.000			Recovery =		46.25%	48.05%
Target Compounds						

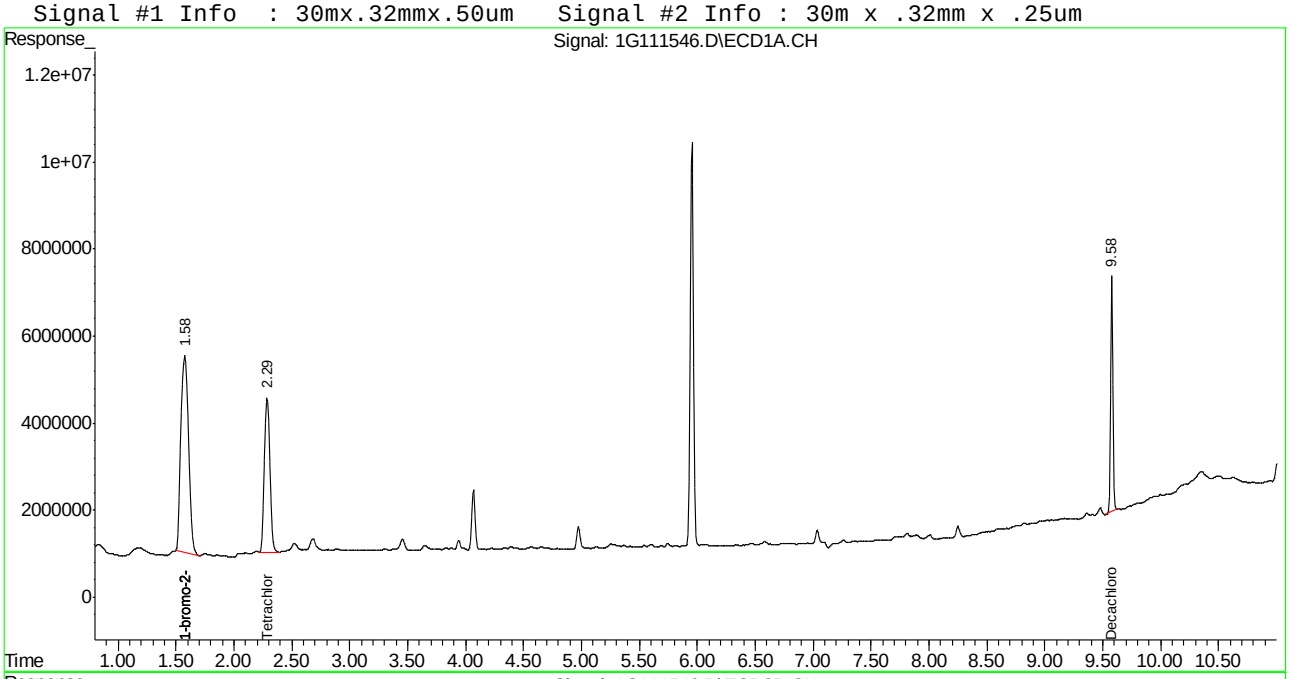
(f)=RT Delta > 1/2 Window (m)=manual int.

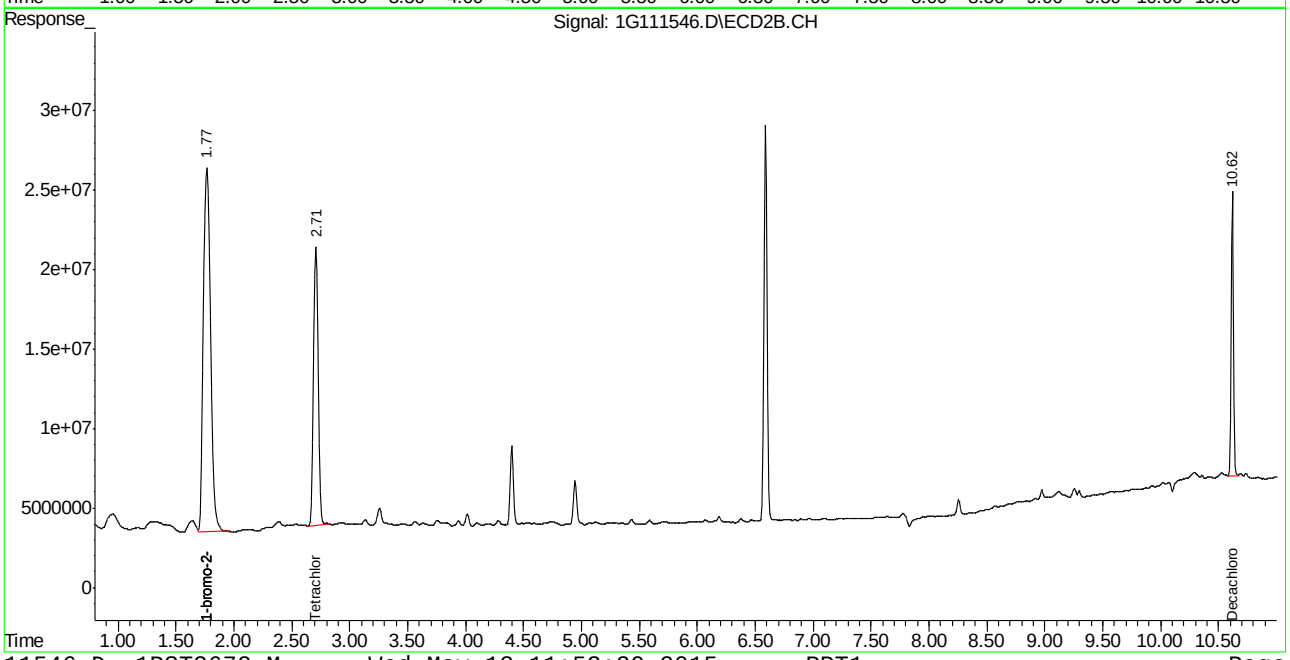
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3675\1G111546.D\ECD1A.CH Vial: 23
Signal #2 : C:\MSDCHEM\1\DATA\1G3675\1G111546.D\ECD2B.CH
Acq On : 5-12-15 07:49:01 PM Operator: rebeccak
Sample : jb94209-16 Inst : GC1G
Misc : op83792,G1G3675,300,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 13 11:53 2015 Quant Results File: 1PST3672.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3672.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 11 08:10:50 2015
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3672.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3675\1G111547.D\ECD1A.CH Vial: 24
Signal #2 : C:\MSDCHEM\1\DATA\1G3675\1G111547.D\ECD2B.CH
Acq On : 5-12-15 08:05:08 PM Operator: rebeccak
Sample : jb94209-17 Inst : GC1G
Misc : op83792,G1G3675,300,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 13 11:54 2015 Quant Results File: 1PST3672.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3672.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 11 08:10:50 2015
Response via : Initial Calibration
DataAcq Meth : 1PST3672.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2-nitrob	1.58	1.77	214.4E6	999.0E6	50.000	50.000
25) I 1-bromo-2-nitrob	1.58	1.77	214.4E6	999.0E6	50.000	50.000
31) I 1-bromo-2-nitrob	1.58	1.77	214.4E6	999.0E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachloro-m-xy	2.29	2.71	143.3E6	586.2E6	31.791	35.248
Spiked Amount 40.000 Range 30 - 150 Recovery =					79.48%	88.12%
24) SA Decachlorobiphen	9.58	10.62	53287585	161.3E6	13.304	13.045
Spiked Amount 40.000 Recovery =					33.26%	32.61%
Target Compounds						

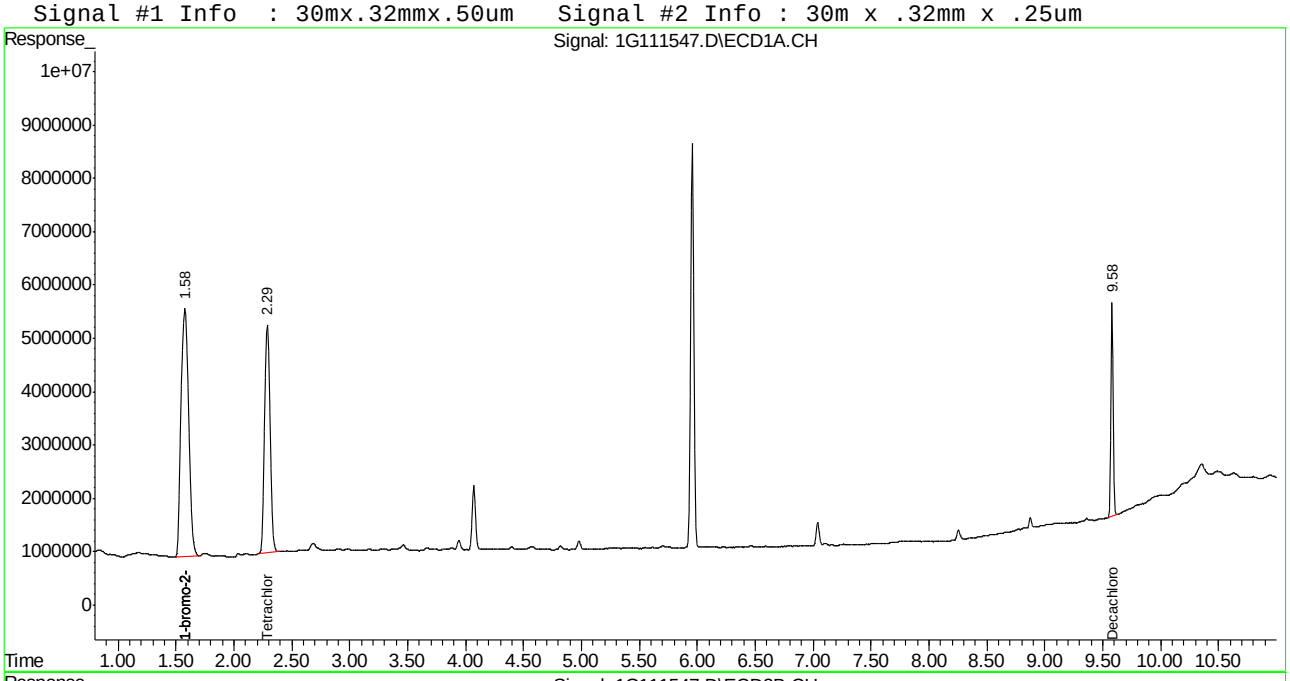
(f)=RT Delta > 1/2 Window (m)=manual int.
1G111547.D 1PST3672.M Wed May 13 11:54:05 2015 RPT1

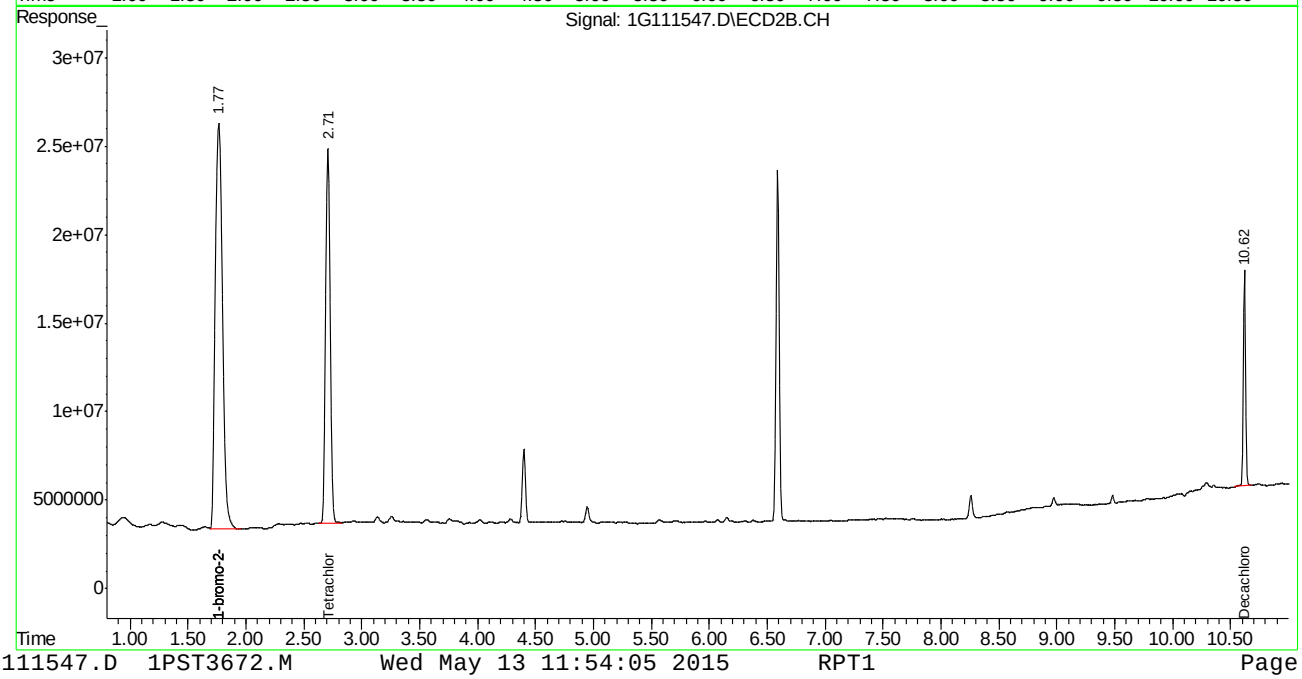
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3675\1G111547.D\ECD1A.CH Vial: 24
Signal #2 : C:\MSDCHEM\1\DATA\1G3675\1G111547.D\ECD2B.CH
Acq On : 5-12-15 08:05:08 PM Operator: rebeccak
Sample : jb94209-17 Inst : GC1G
Misc : op83792,G1G3675,300,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 13 11:54 2015 Quant Results File: 1PST3672.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3672.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 11 08:10:50 2015
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3672.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations
APPROVED
(compounds with "m" flag)
Owen McKenna
05/14/15 16:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56102.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 1:25 pm
Operator : yvelandd
Sample : jb94209-18
Misc : op83920,g4g1469,16.4,,,10,1
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 15:05:10 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 14 10:13:14 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2...	1.772	1.971	149.2E6	202.3E6	50.000	50.000
25) I 1-bromo-2...	1.772	1.971	149.2E6	202.3E6	50.000	50.000
31) I 1-bromo-2...	1.772	1.971	149.2E6	202.3E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	2.216	2.623	76836247	103.6E6	29.967	29.815
Spiked Amount 40.000	Range	30 - 150	Recovery	=	74.92%	74.54%
24) SA Decachlor...	9.108	10.787	74775625	105.0E6	31.839m	39.542m
Spiked Amount 40.000			Recovery	=	79.60%	98.86%
Target Compounds						
16) A 4,4'-DDD	5.436	6.937f	3923155	17883092	1.786m	6.284 #
18) MA 4,4'-DDT	5.834	7.482	13350105	17939268	6.454m	7.866m
SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

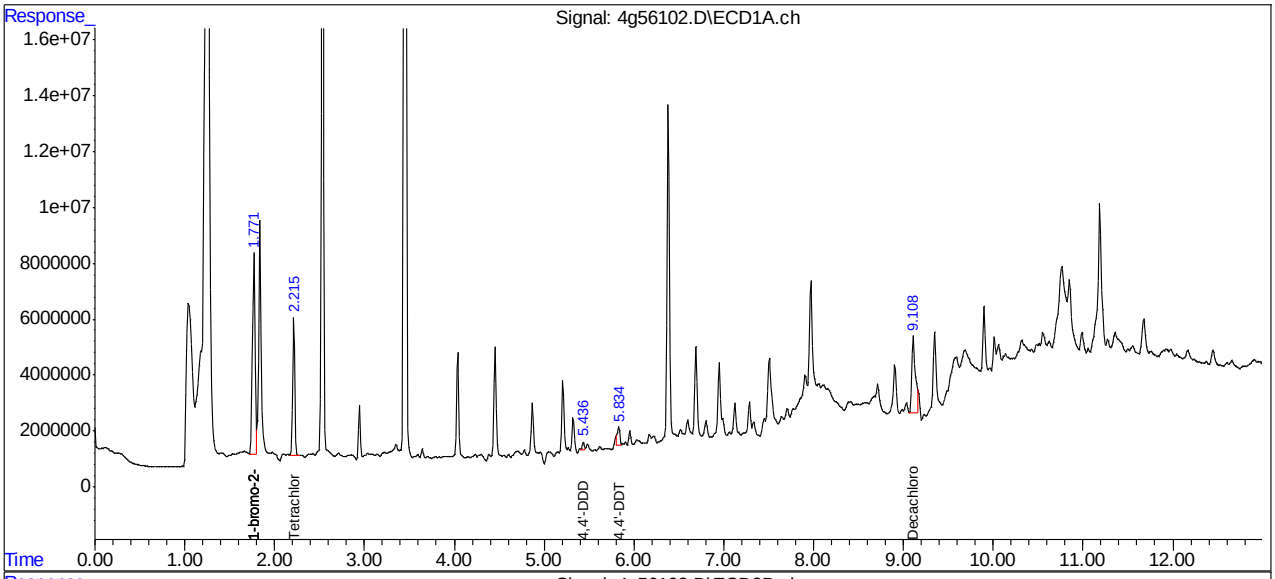
11.1.20
11

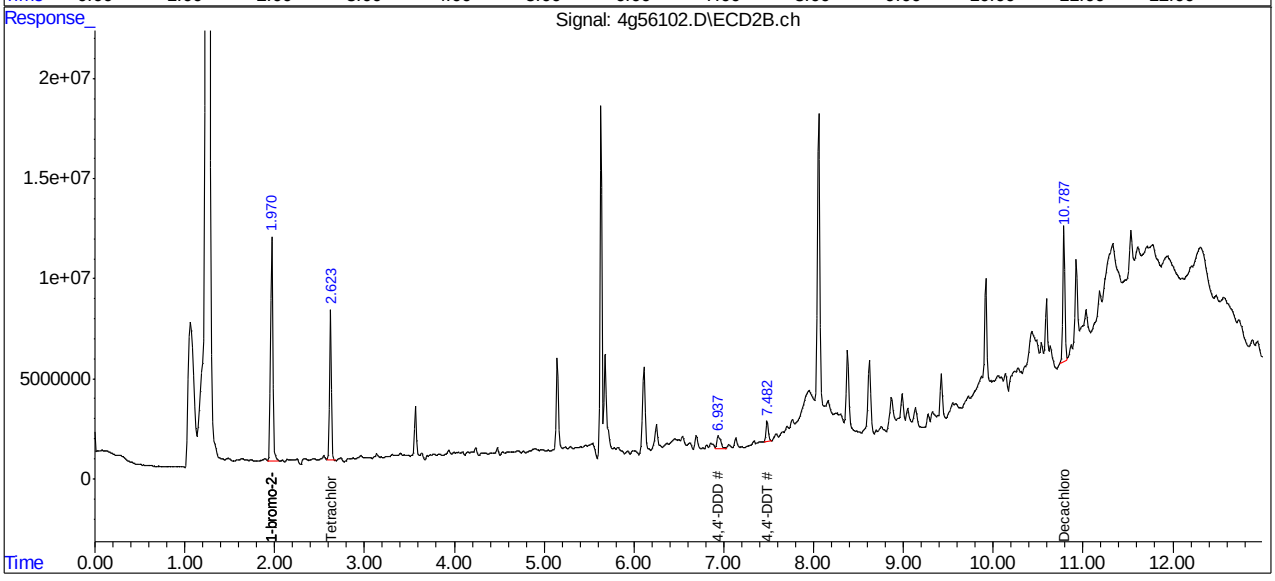
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56102.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 1:25 pm
Operator : yvelandd
Sample : jb94209-18
Misc : op83920,g4g1469,16.4,,,10,1
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 15:05:10 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 14 10:13:14 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/12/15 14:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3349\
Data File : 2g113706.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 May 2015 4:35 pm
Operator : dylang
Sample : jb94209-1
Misc : op83802,G2G3349,16.1,,,10,1
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 12 11:16:37 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.122	3.712	1190.2E6	548.8E6	43.835m	35.815
Spiked Amount 40.000			Recovery	=	109.59%	89.54%
51) S Decachlor...	10.604	12.210	868.3E6	347.2E6	32.894m	30.720m
Spiked Amount 40.000			Recovery	=	82.23%	76.80%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

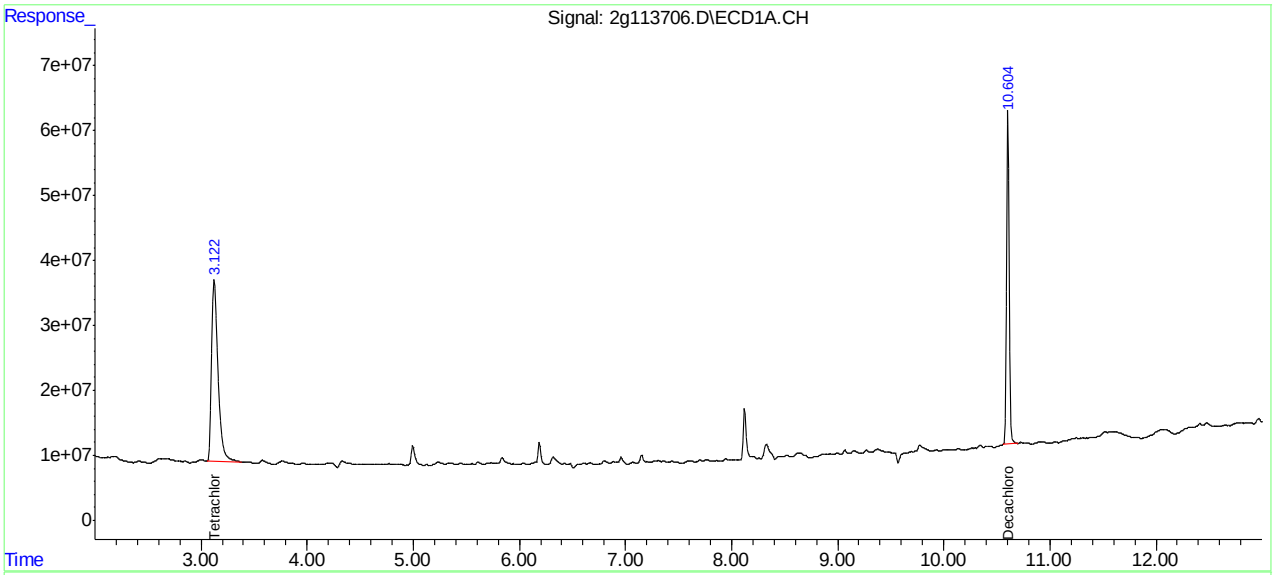
11.1.21
11

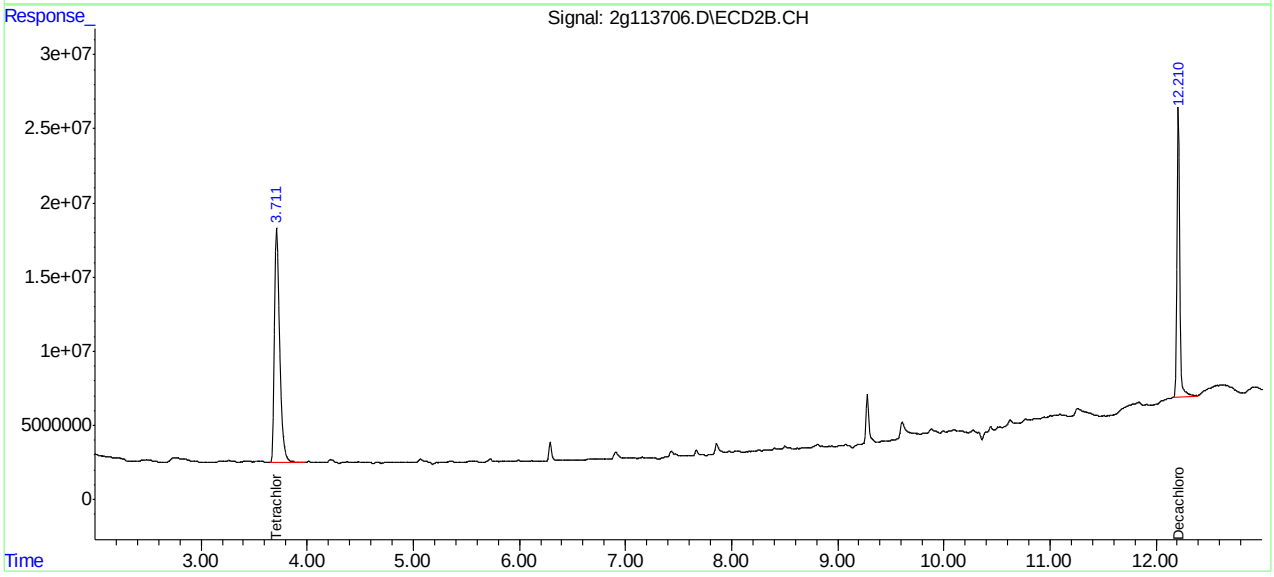
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3349\
Data File : 2g113706.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 May 2015 4:35 pm
Operator : dylang
Sample : jb94209-1
Misc : op83802,G2G3349,16.1,,,10,1
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 12 11:16:37 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/12/15 14:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3349\
Data File : 2g113707.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 May 2015 4:52 pm
Operator : dylang
Sample : jb94209-2
Misc : op83802,G2G3349,15.7,,,10,1
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 12 11:17:16 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.122	3.709	1371.7E6	627.3E6	50.520m	40.939m
Spiked Amount 40.000			Recovery	=	126.30%	102.35%
51) S Decachlor...	10.603	12.210	1034.9E6	386.8E6	39.208m	34.223m
Spiked Amount 40.000			Recovery	=	98.02%	85.56%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

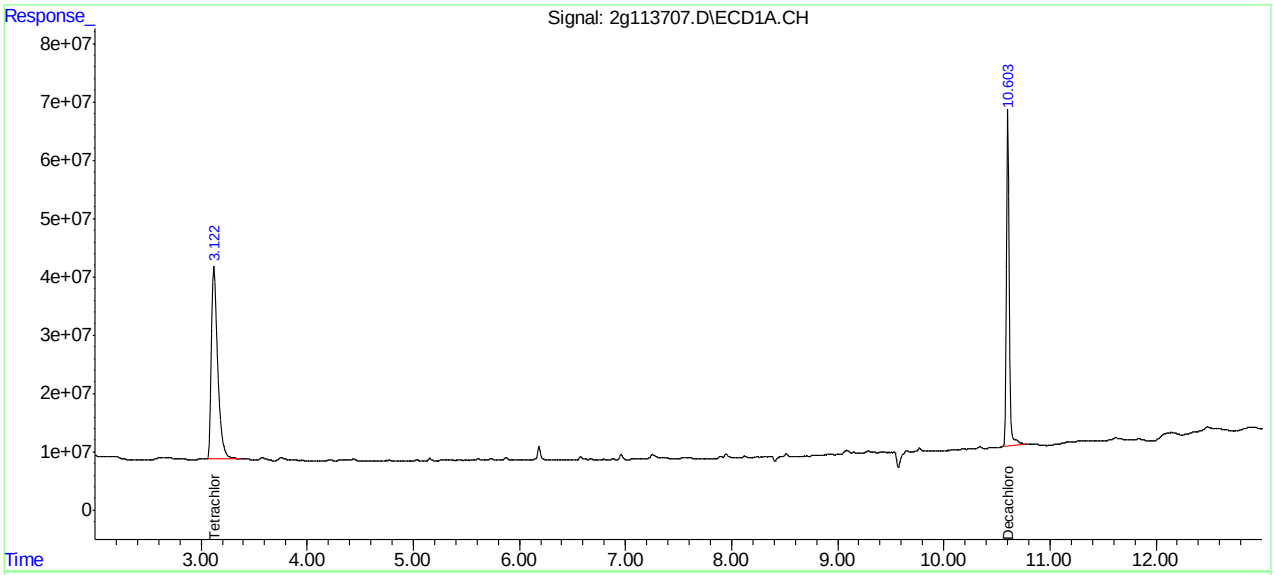
11.1.22
11

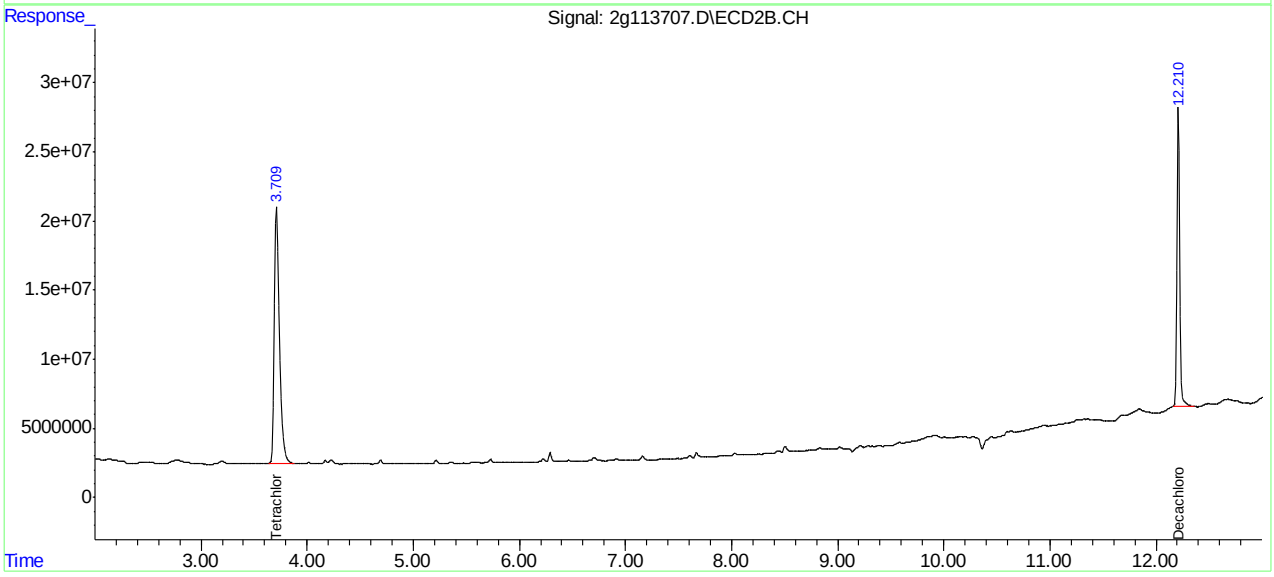
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3349\
Data File : 2g113707.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 May 2015 4:52 pm
Operator : dylang
Sample : jb94209-2
Misc : op83802,G2G3349,15.7,,,10,1
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 12 11:17:16 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/12/15 14:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3349\
Data File : 2g113708.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 May 2015 5:08 pm
Operator : dylang
Sample : jb94209-3
Misc : op83802,G2G3349,15.8,,,10,1
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 12 11:18:22 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.123	3.712	810.4E6	356.6E6	29.847m	23.274m
Spiked Amount 40.000			Recovery	=	74.62%	58.18%
51) S Decachlor...	10.607	12.236f	2088.3E6	3349.3E6	79.115m	296.345m#
Spiked Amount 40.000			Recovery	=	197.79%	740.86%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

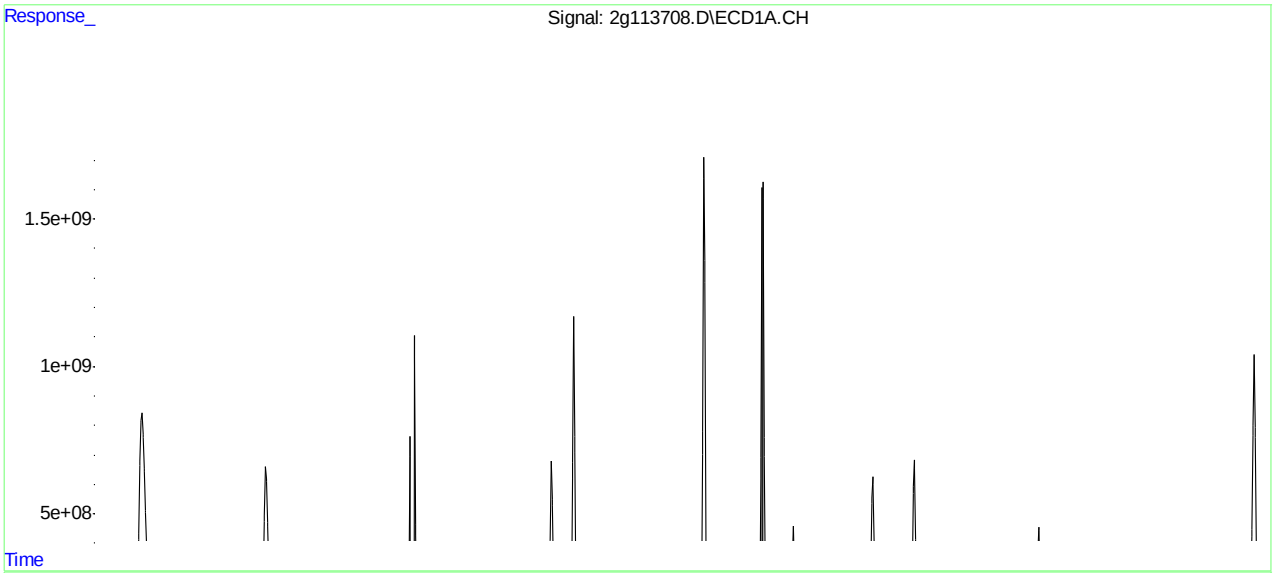
11.1.23
11

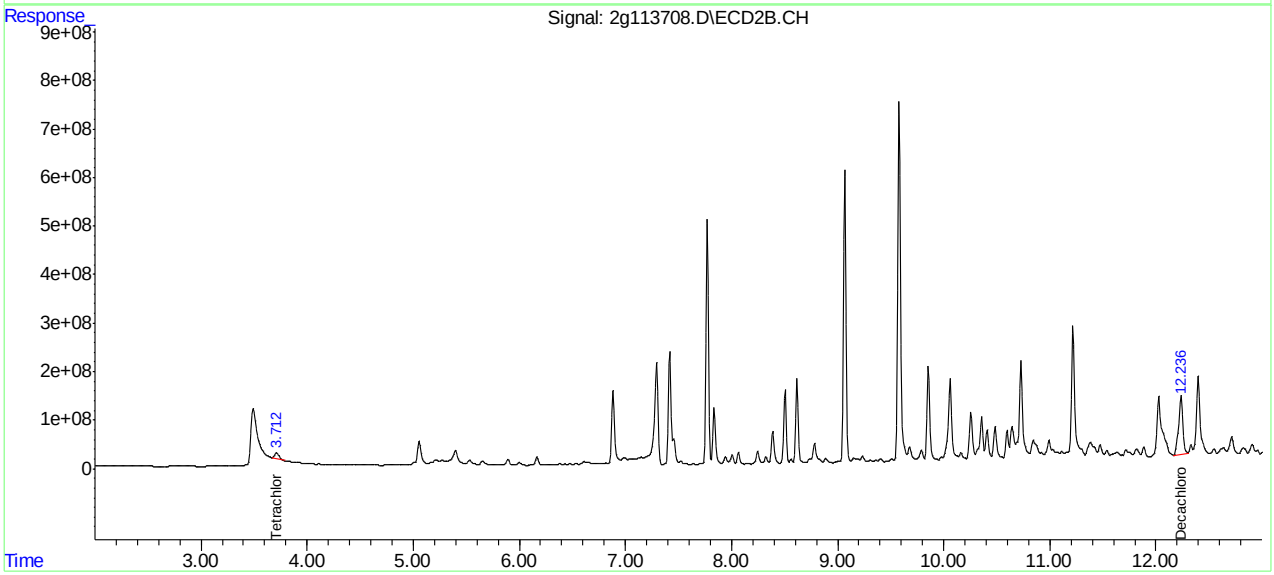
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3349\
Data File : 2g113708.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 May 2015 5:08 pm
Operator : dylang
Sample : jb94209-3
Misc : op83802,G2G3349,15.8,,,10,1
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 12 11:18:22 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/12/15 14:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3349\
Data File : 2g113709.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 May 2015 5:25 pm
Operator : dylang
Sample : jb94209-4
Misc : op83802,G2G3349,16.2,,,10,1
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 12 11:18:55 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.122	3.710	1105.9E6	490.4E6	40.731m	32.009m
Spiked Amount 40.000			Recovery	=	101.83%	80.02%
51) S Decachlor...	10.601	12.209	661.6E6	291.6E6	25.066m	25.800m
Spiked Amount 40.000			Recovery	=	62.66%	64.50%
Target Compounds						

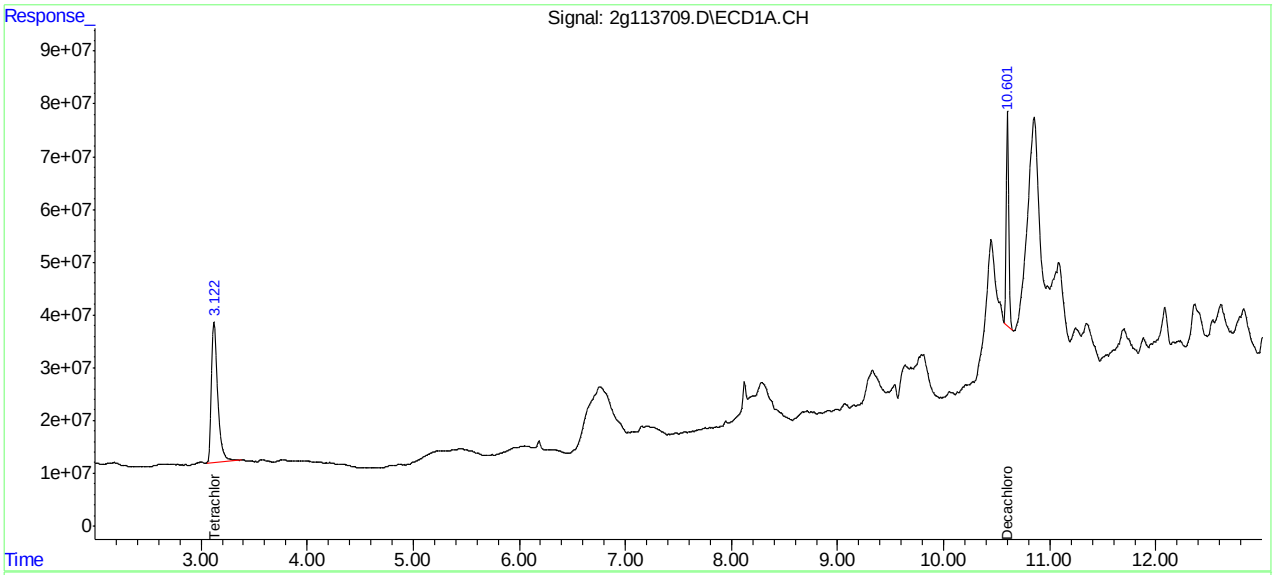
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

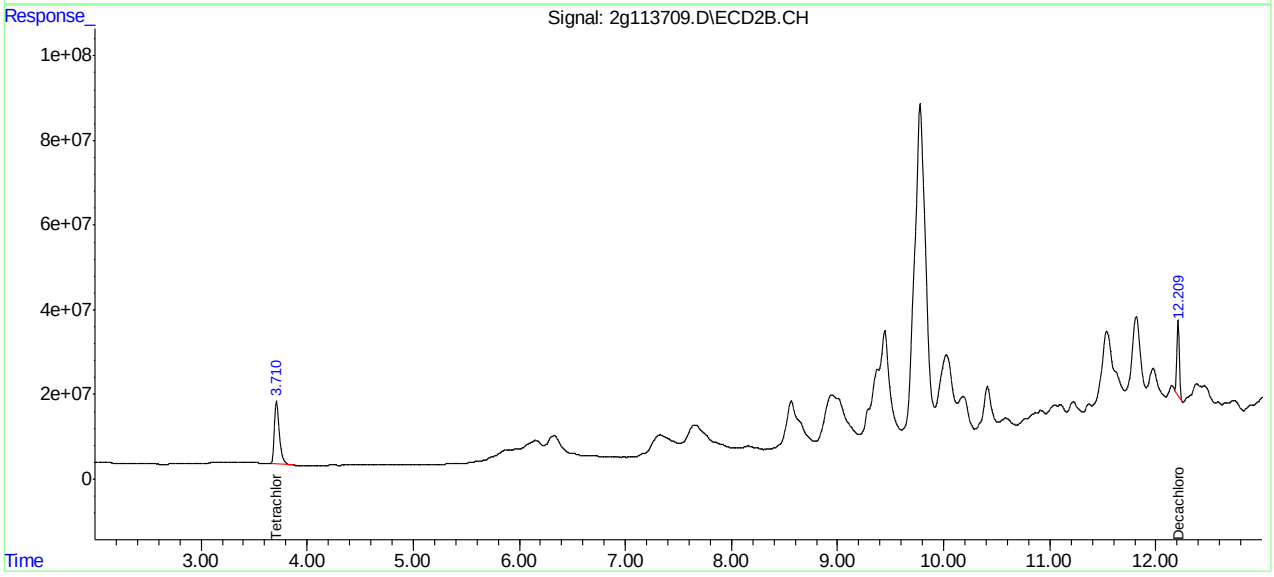
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3349\
Data File : 2g113709.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 May 2015 5:25 pm
Operator : dylang
Sample : jb94209-4
Misc : op83802,G2G3349,16.2,,,10,1
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 12 11:18:55 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna
05/14/15 17:02

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3349\
Data File : 2g113710.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 May 2015 5:42 pm
Operator : dylang
Sample : jb94209-5
Misc : op83802,G2G3349,16.6,,,10,1
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 14 14:46:58 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.123	3.713	642.0E6	256.5E6	23.645m	16.742m#
Spiked Amount 40.000			Recovery	=	59.11%	41.86%
51) S Decachlor...	10.604	12.229	1180.3E6	1580.9E6	44.716	139.876m#
Spiked Amount 40.000			Recovery	=	111.79%	349.69%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

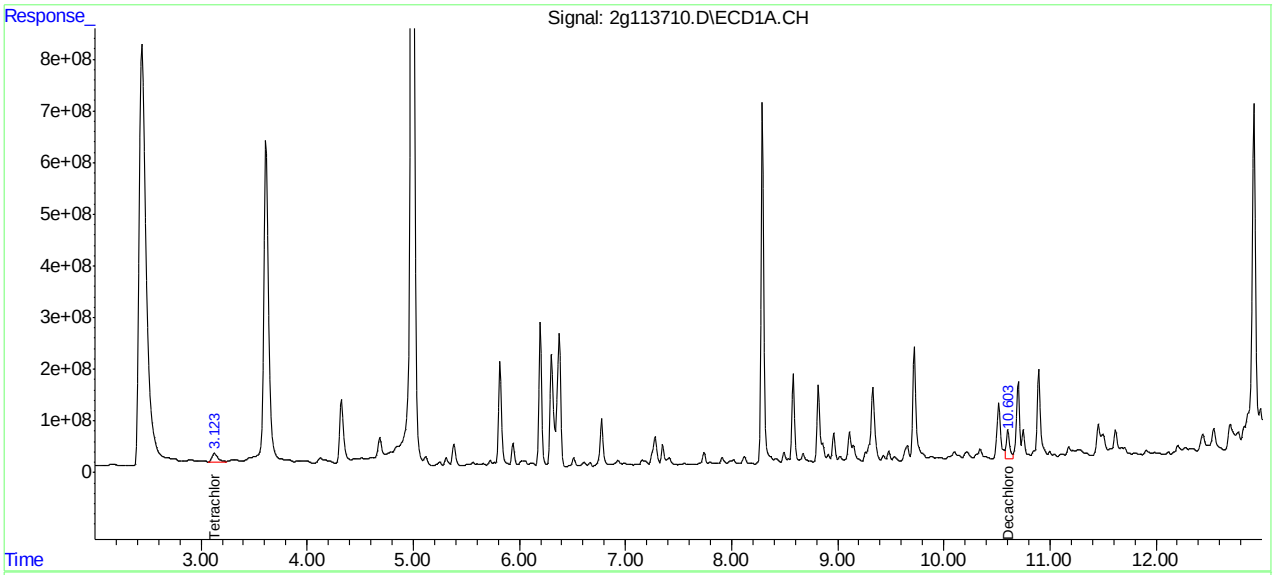
11.1.25
11

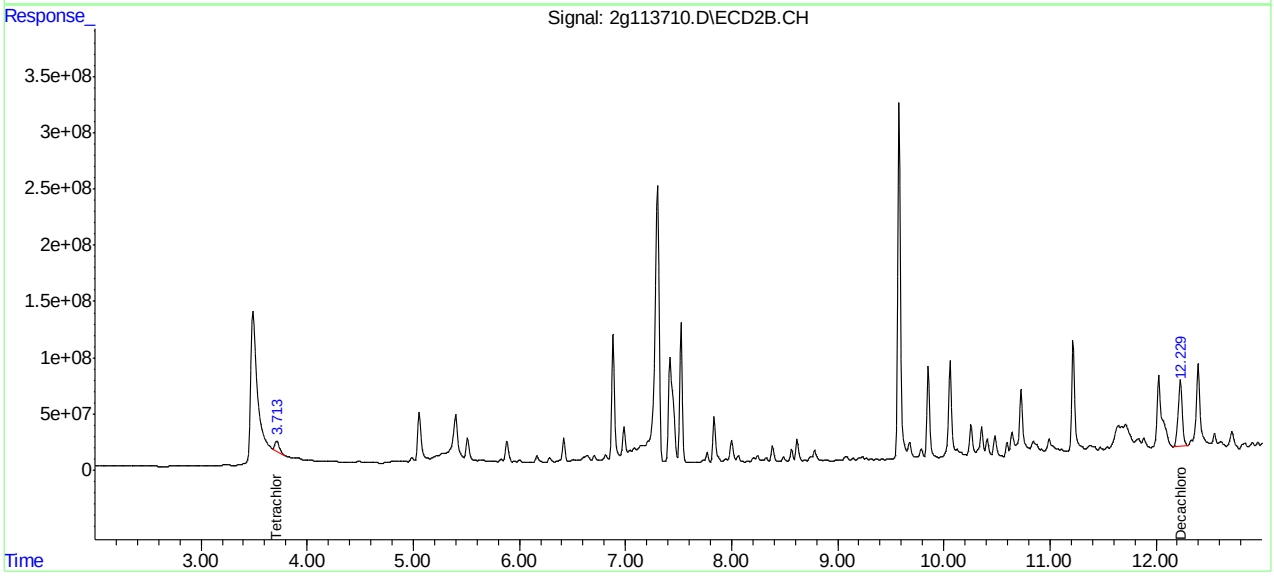
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3349\
Data File : 2g113710.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 May 2015 5:42 pm
Operator : dylang
Sample : jb94209-5
Misc : op83802,G2G3349,16.6,,,10,1
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 14 14:46:58 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/12/15 14:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3349\
Data File : 2g113715.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 May 2015 7:07 pm
Operator : dylang
Sample : jb94209-6
Misc : op83802,G2G3349,15.1,,,10,1
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 12 11:19:33 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.120	3.709	1232.5E6	572.0E6	45.396m	37.333
Spiked Amount 40.000			Recovery	=	113.49%	93.33%
51) S Decachlor...	10.601	12.209	891.9E6	307.4E6	33.789m	27.197m
Spiked Amount 40.000			Recovery	=	84.47%	67.99%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

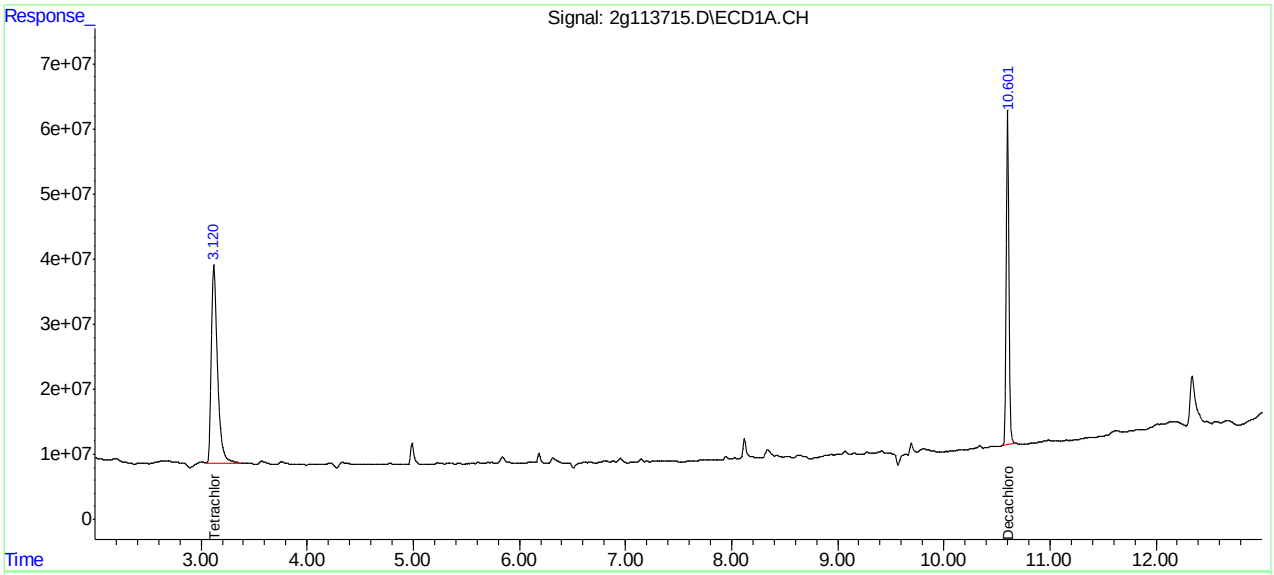
11.1.26
11

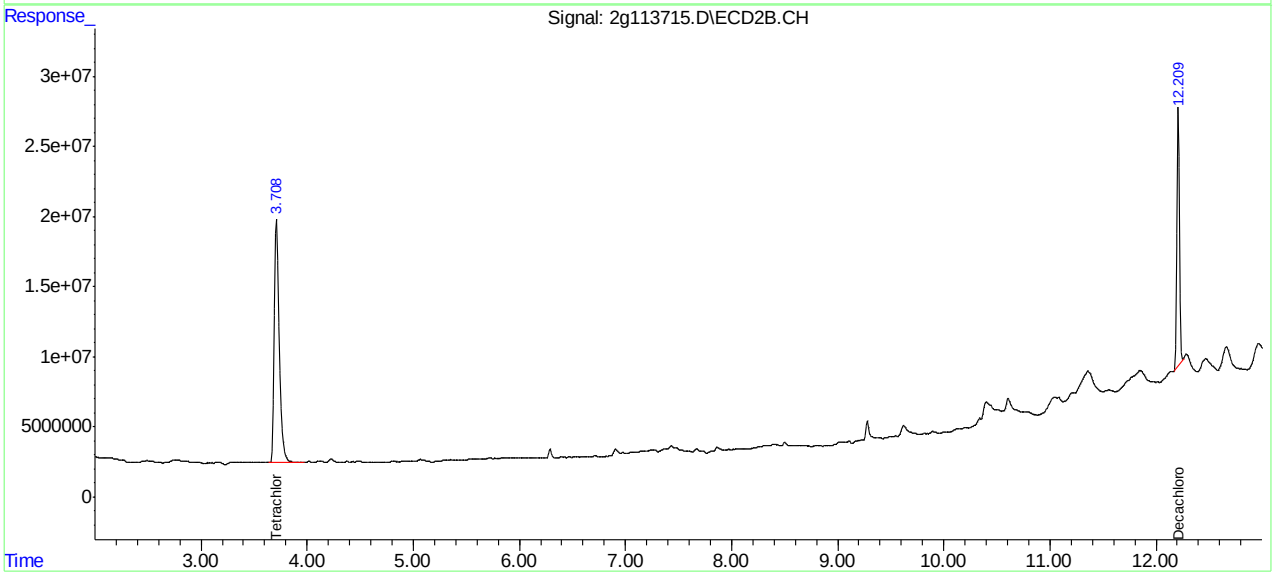
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3349\
Data File : 2g113715.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 May 2015 7:07 pm
Operator : dylang
Sample : jb94209-6
Misc : op83802,G2G3349,15.1,,,10,1
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 12 11:19:33 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/12/15 14:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3349\
Data File : 2g113716.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 May 2015 7:24 pm
Operator : dylang
Sample : jb94209-7
Misc : op83802,G2G3349,15.5,,,10,1
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 12 11:20:21 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.122	3.710	942.8E6	471.5E6	34.726	30.770m
Spiked Amount 40.000			Recovery	=	86.81%	76.92%
51) S Decachlor...	10.600	12.209	989.8E6	579.9E6	37.497m	51.306m#
Spiked Amount 40.000			Recovery	=	93.74%	128.26%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

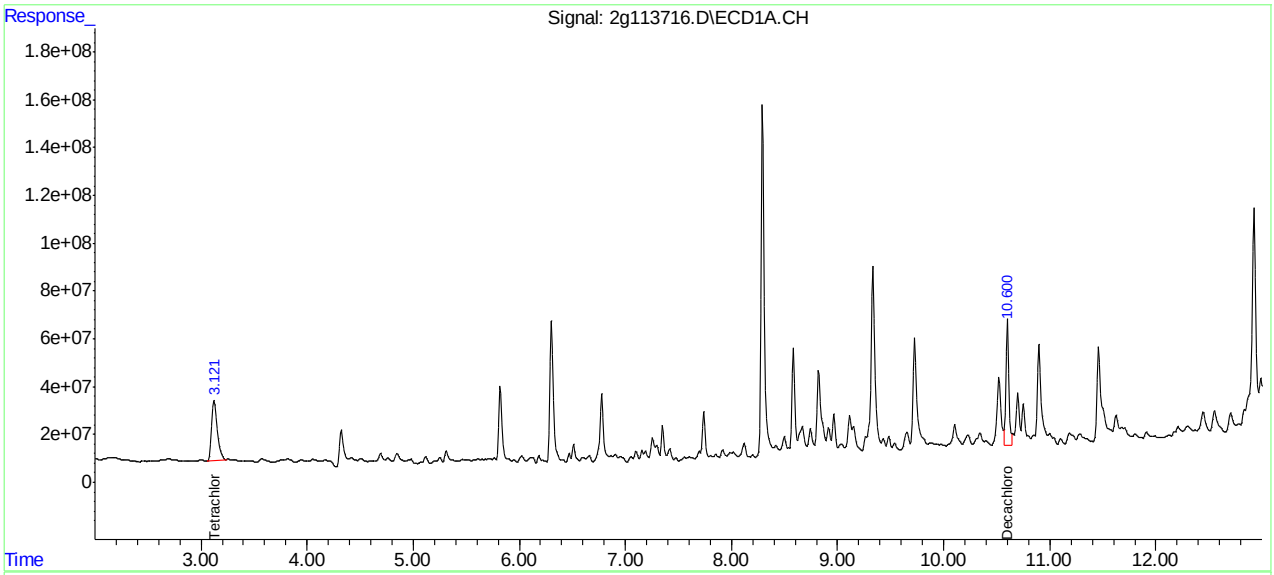
11.1.27 11

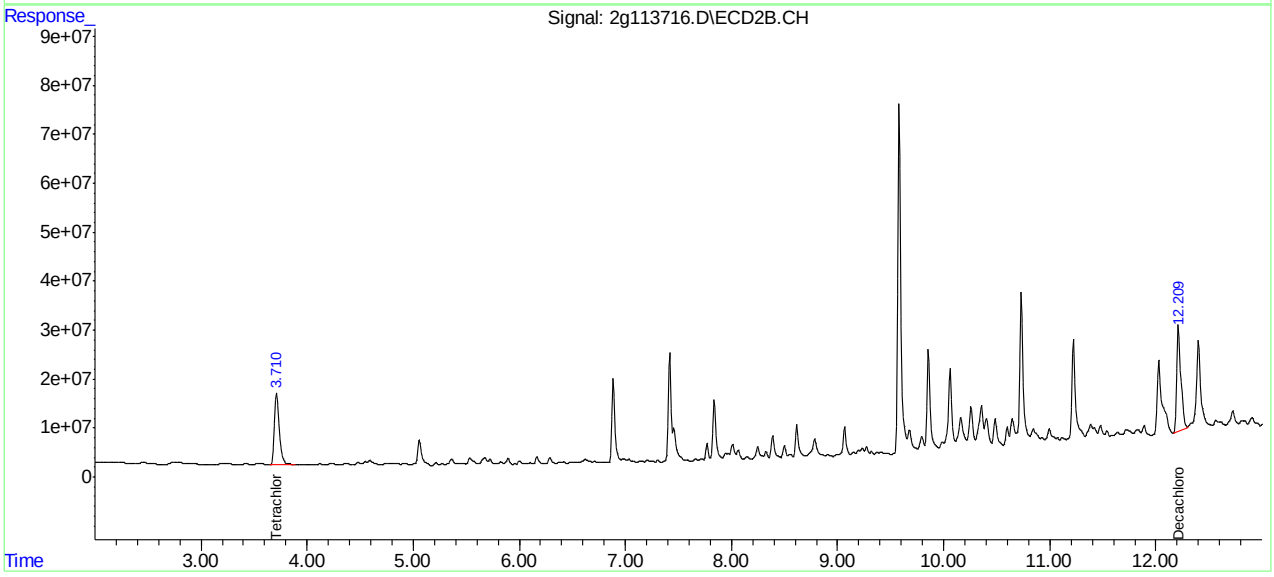
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3349\
Data File : 2g113716.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 May 2015 7:24 pm
Operator : dylang
Sample : jb94209-7
Misc : op83802,G2G3349,15.5,,,10,1
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 12 11:20:21 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/12/15 14:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3349\
Data File : 2g113717.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 May 2015 7:40 pm
Operator : dylang
Sample : jb94209-8
Misc : op83802,G2G3349,16.4,,,10,1
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 12 11:20:51 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.121	3.711	1276.7E6	593.3E6	47.021m	38.722m
Spiked Amount 40.000			Recovery	=	117.55%	96.81%
51) S Decachlor...	10.601	12.209	867.3E6	359.1E6	32.858m	31.776m
Spiked Amount 40.000			Recovery	=	82.14%	79.44%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

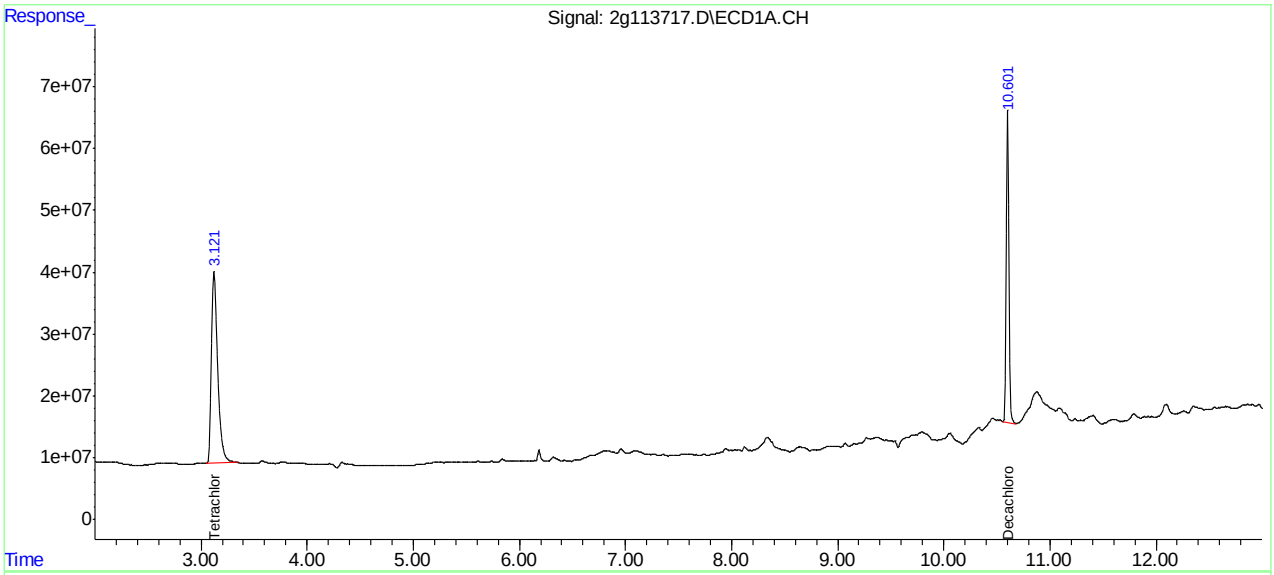
11.1.28
11

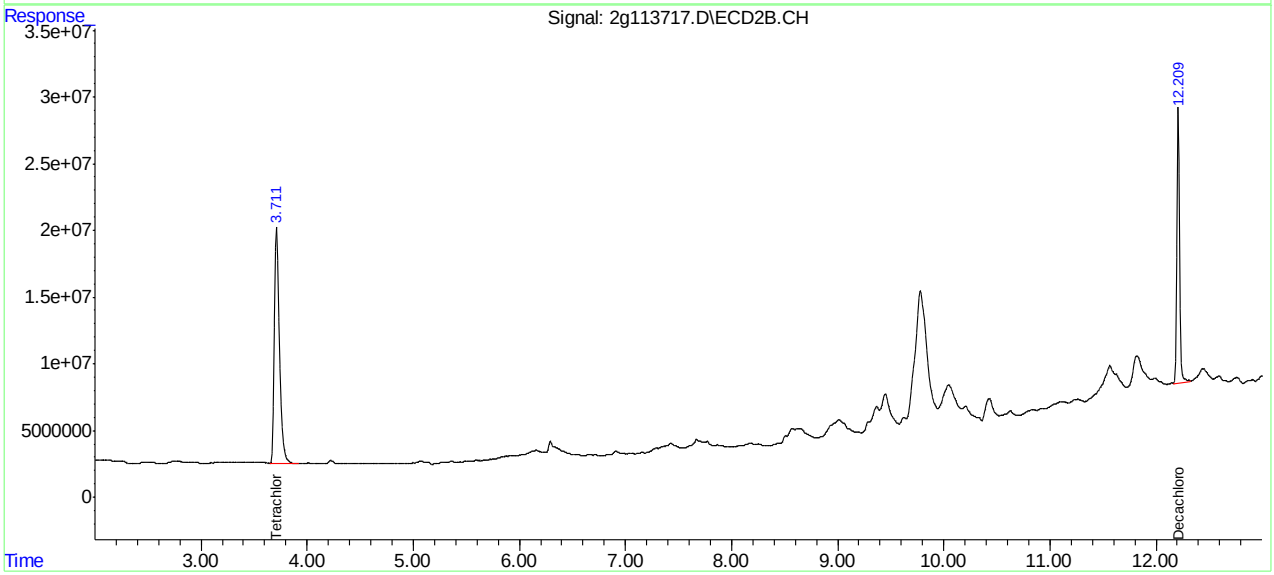
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3349\
Data File : 2g113717.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 May 2015 7:40 pm
Operator : dylang
Sample : jb94209-8
Misc : op83802,G2G3349,16.4,,,10,1
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 12 11:20:51 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/12/15 14:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3349\
Data File : 2g113718.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 May 2015 7:57 pm
Operator : dylang
Sample : jb94209-9
Misc : op83802,G2G3349,15.8,,,10,1
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 12 11:21:35 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.127	3.713	750.5E6	371.0E6	27.641m	24.210m
Spiked Amount 40.000			Recovery	=	69.10%	60.53%
51) S Decachlor...	10.607	12.237f	1423.6E6	3130.3E6	53.933m	276.969m#
Spiked Amount 40.000			Recovery	=	134.83%	692.42%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

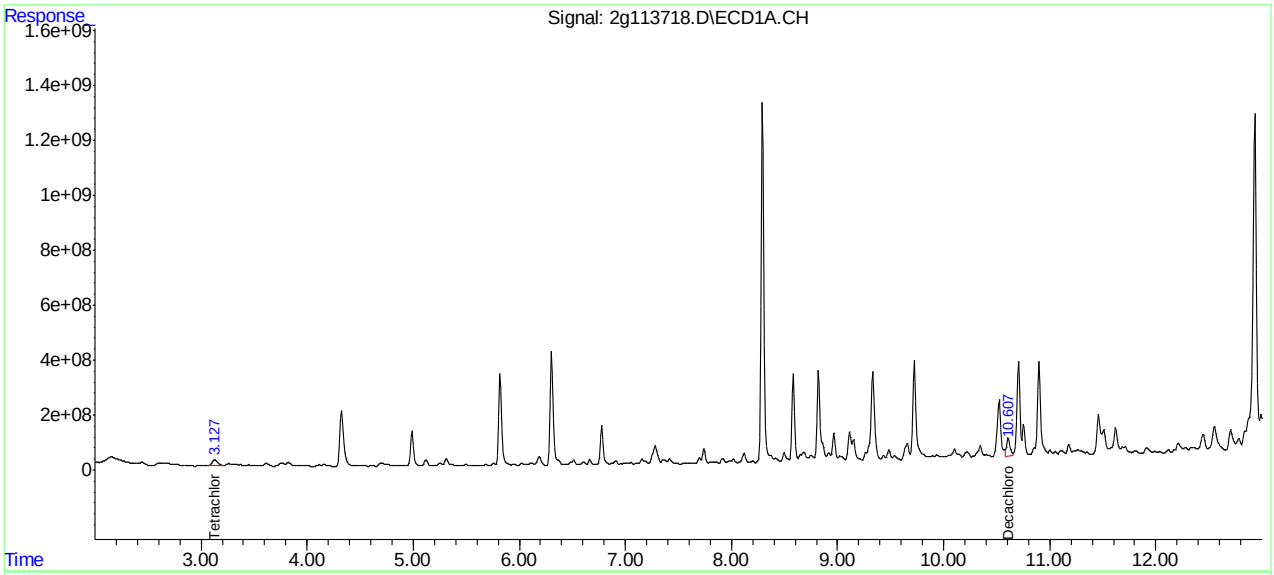
11.1.29 11

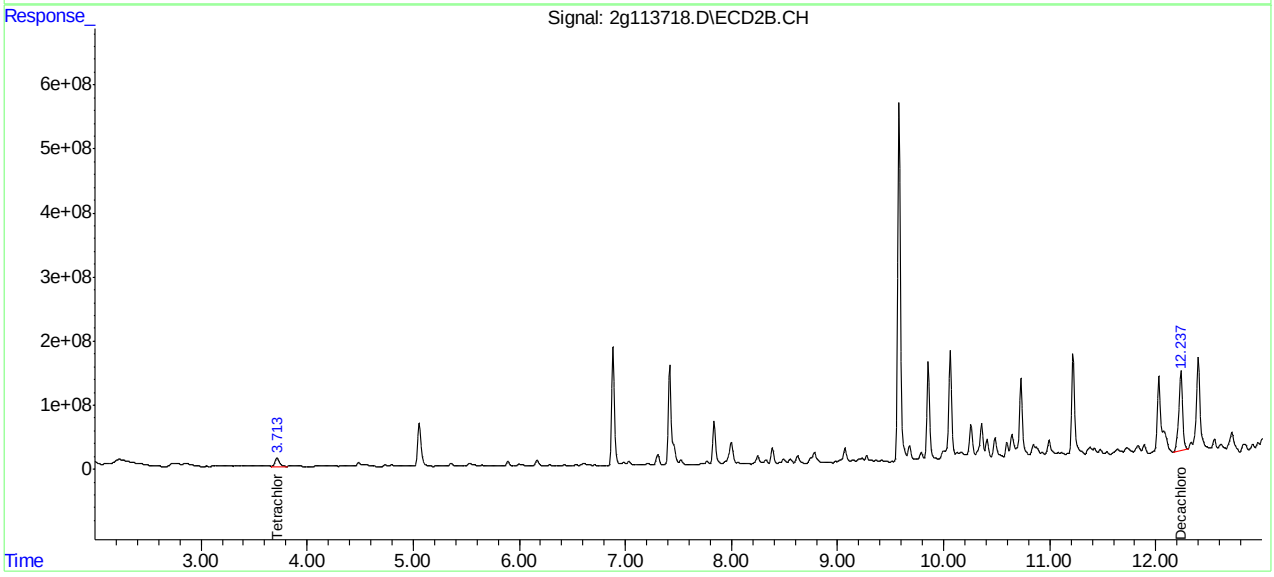
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3349\
Data File : 2g113718.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 May 2015 7:57 pm
Operator : dylang
Sample : jb94209-9
Misc : op83802,G2G3349,15.8,,,10,1
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 12 11:21:35 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/12/15 14:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3349\
Data File : 2g113719.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 May 2015 8:14 pm
Operator : dylang
Sample : jb94209-10
Misc : op83802,G2G3349,16.2,,,10,1
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 12 11:22:08 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.123	3.711	712.9E6	355.3E6	26.259	23.189m
Spiked Amount 40.000			Recovery	=	65.65%	57.97%
51) S Decachlor...	10.601	12.211	467.5E6	402.4E6	17.711m	35.603m#
Spiked Amount 40.000			Recovery	=	44.28%	89.01%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.1.30

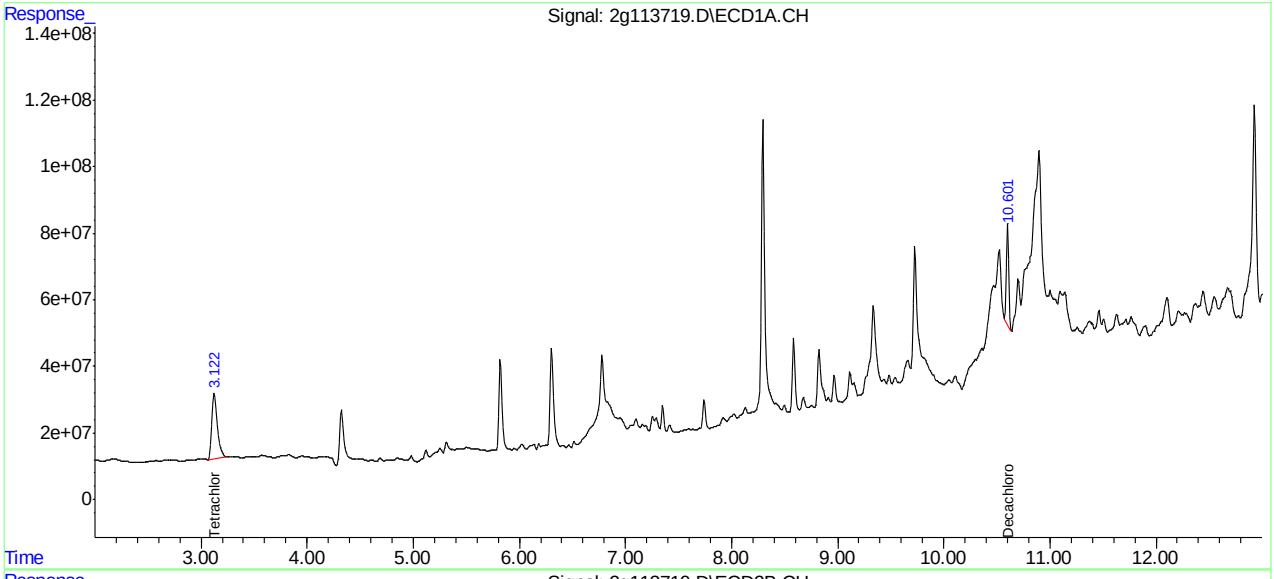
11

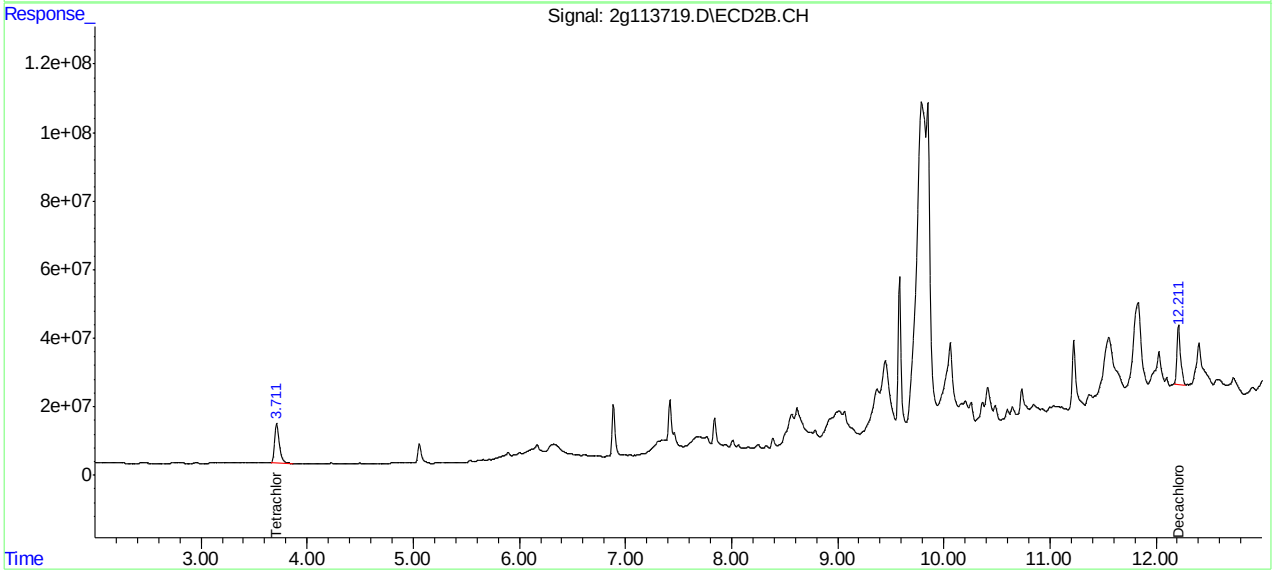
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3349\
Data File : 2g113719.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 May 2015 8:14 pm
Operator : dylang
Sample : jb94209-10
Misc : op83802,G2G3349,16.2,,,10,1
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 12 11:22:08 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/12/15 14:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3349\
Data File : 2g113720.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 May 2015 8:31 pm
Operator : dylang
Sample : jb94209-11
Misc : op83802,G2G3349,15.6,,,10,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 12 11:23:00 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.123	3.712	674.0E6	293.8E6	24.826m	19.175m
Spiked Amount 40.000			Recovery	=	62.07%	47.94%
51) S Decachlor...	10.607	12.238f	1122.2E6	4132.6E6	42.514m	365.657m#
Spiked Amount 40.000			Recovery	=	106.29%	914.14%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.1.31

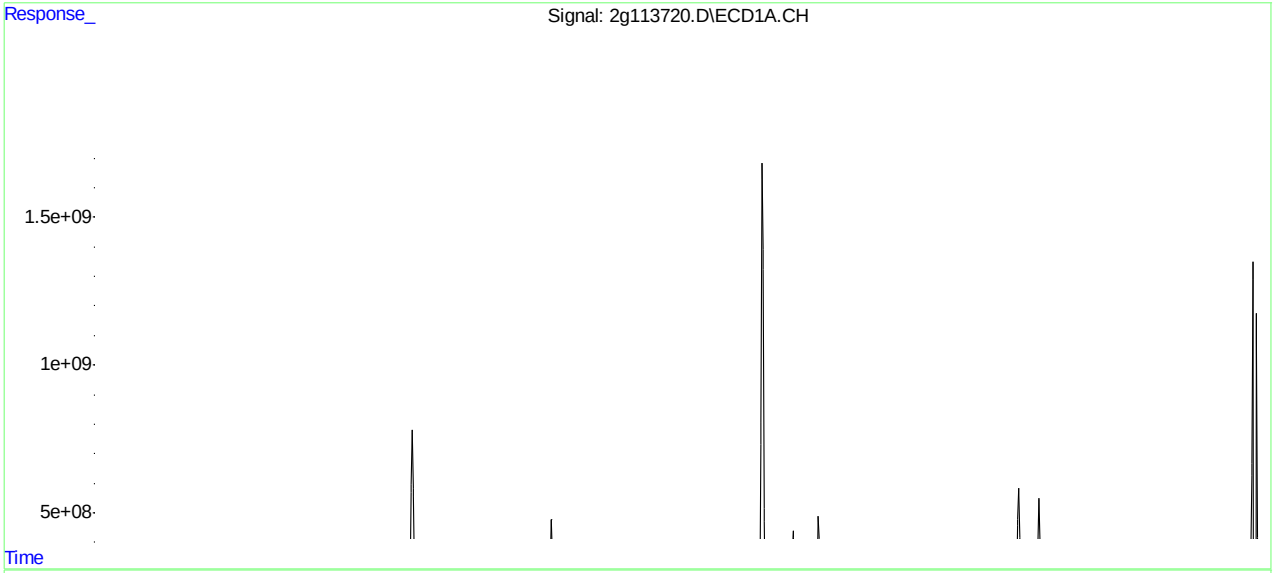
11

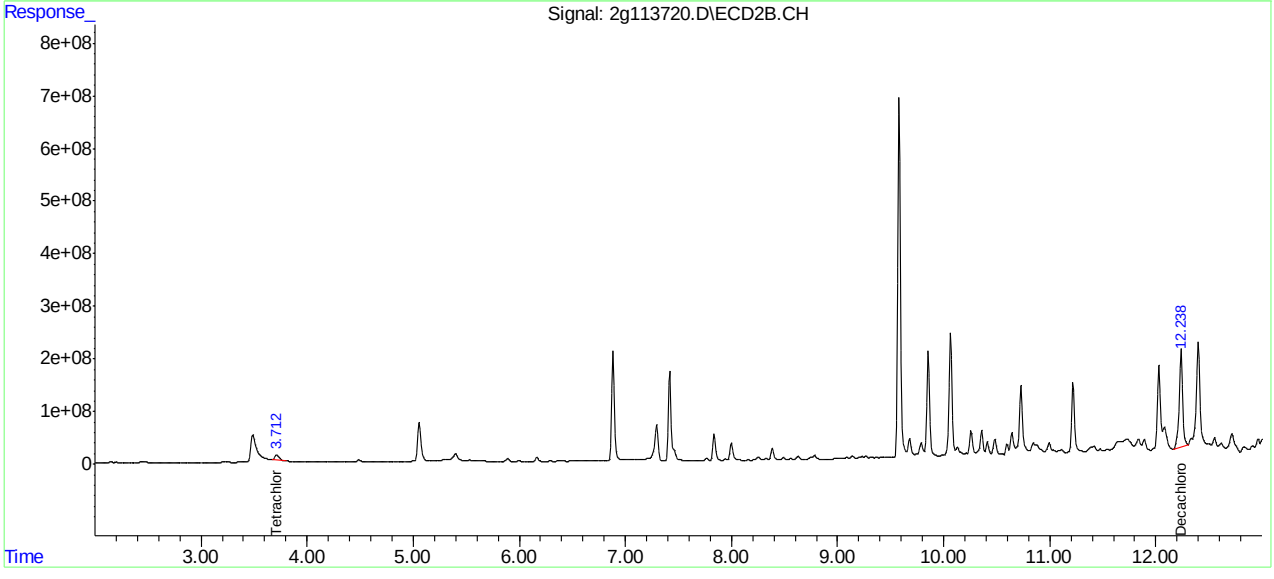
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3349\
Data File : 2g113720.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 May 2015 8:31 pm
Operator : dylang
Sample : jb94209-11
Misc : op83802,G2G3349,15.6,,,10,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 12 11:23:00 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/12/15 14:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3349\
Data File : 2g113721.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 May 2015 8:48 pm
Operator : dylang
Sample : jb94209-12
Misc : op83802,G2G3349,16.2,,,10,1
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 12 11:23:40 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.124	3.712	926.8E6	416.2E6	34.136m	27.160m
Spiked Amount 40.000			Recovery	=	85.34%	67.90%
51) S Decachlor...	10.601	12.209	441.0E6	229.4E6	16.707m	20.299m
Spiked Amount 40.000			Recovery	=	41.77%	50.75%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.1.32

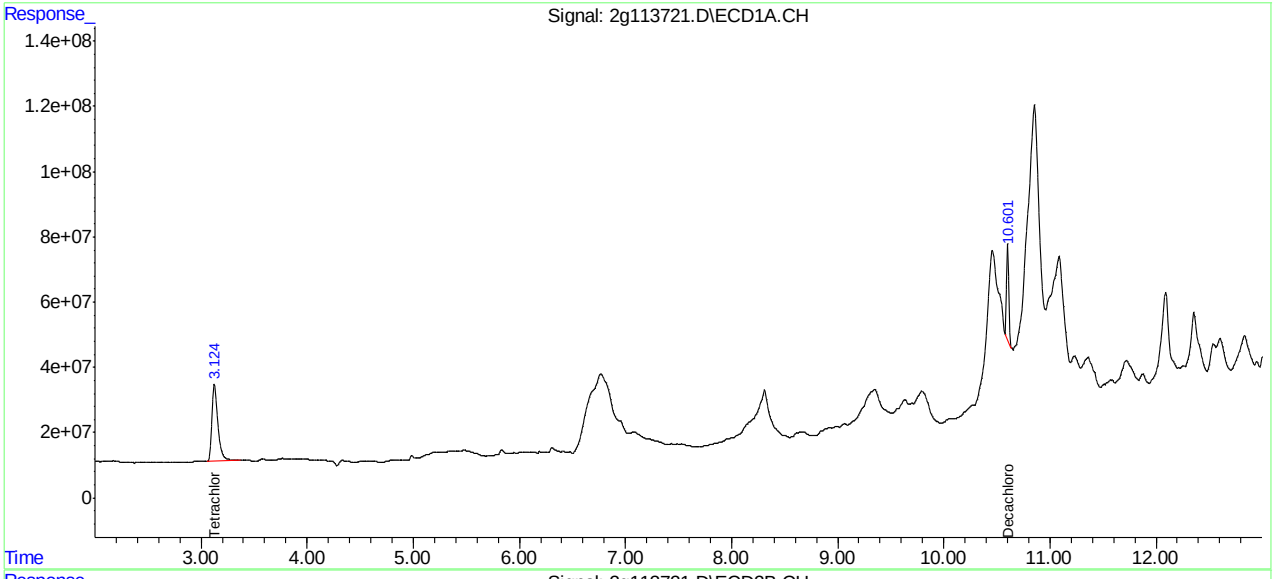
11

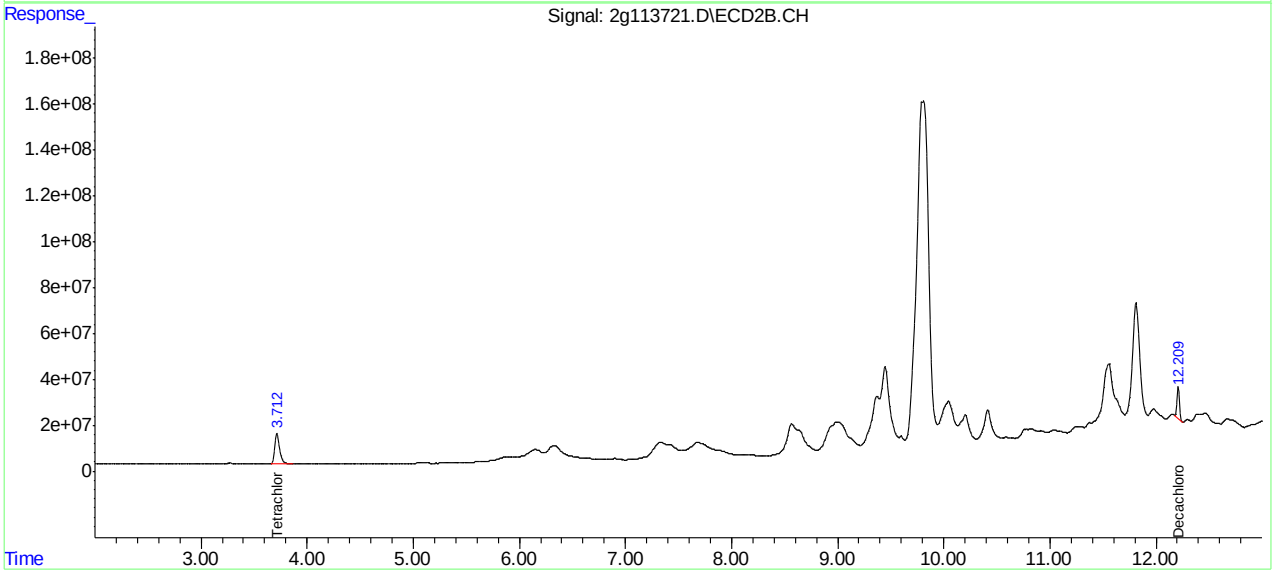
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3349\
Data File : 2g113721.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 May 2015 8:48 pm
Operator : dylang
Sample : jb94209-12
Misc : op83802,G2G3349,16.2,,,10,1
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 12 11:23:40 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna
05/13/15 17:14

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3351\
Data File : 2g113838.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2015 2:22 pm
Operator : dylang
Sample : jb94209-13
Misc : op83793,G2G3351,300,,,2,1
ALS Vial : 61 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 13 14:48:11 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.124	3.711	1169.1E6	592.8E6	43.061m	38.691m
Spiked Amount 40.000			Recovery	=	107.65%	96.73%
51) S Decachlor...	10.600	12.207	825.2E6	305.4E6	31.264	27.021m
Spiked Amount 40.000			Recovery	=	78.16%	67.55%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.1.33

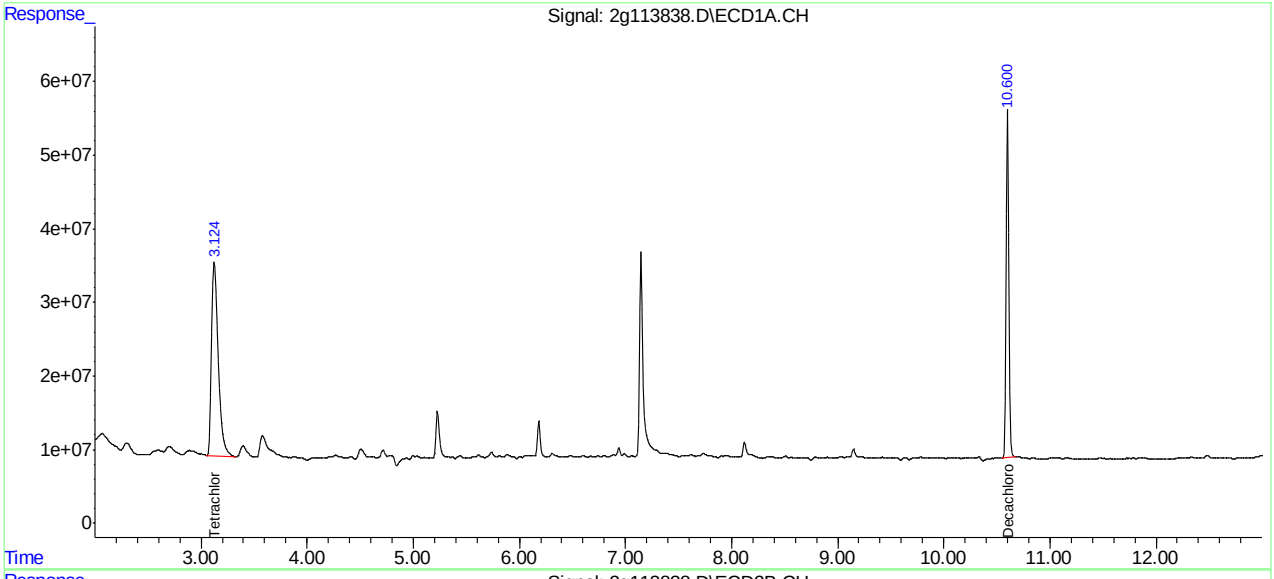
11

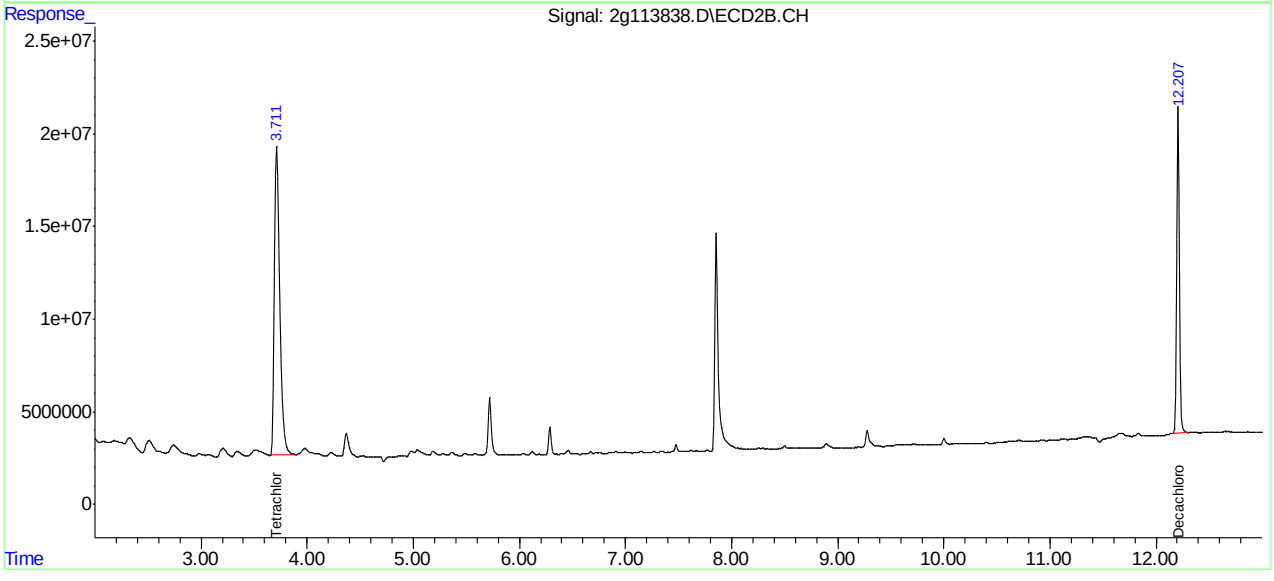
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3351\
Data File : 2g113838.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2015 2:22 pm
Operator : dylang
Sample : jb94209-13
Misc : op83793,G2G3351,300,,,2,1
ALS Vial : 61 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 13 14:48:11 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna
05/14/15 14:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3350\
Data File : 2g113815.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2015 2:37 am
Operator : dylang
Sample : jb94209-14
Misc : op83793,G2G3350,300,,,2,1
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 13 10:37:13 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.128	3.714	1222.0E6	579.9E6	45.008	37.844m
Spiked Amount 40.000			Recovery	=	112.52%	94.61%
51) S Decachlor...	10.602	12.210	930.4E6	336.1E6	35.247	29.740
Spiked Amount 40.000			Recovery	=	88.12%	74.35%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.1.34

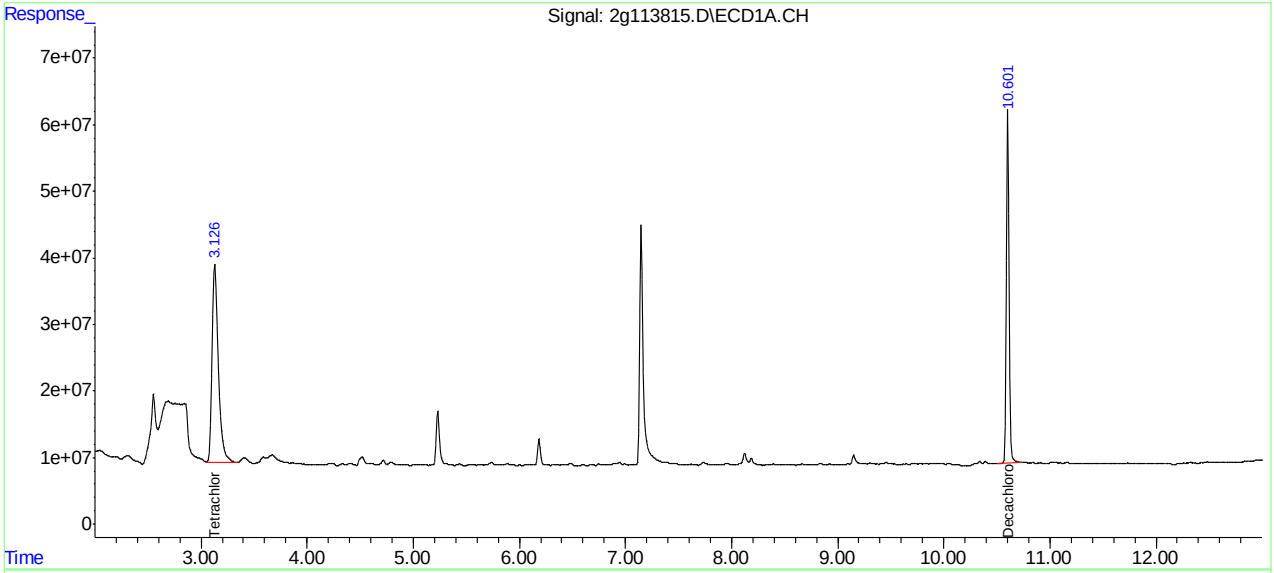
11

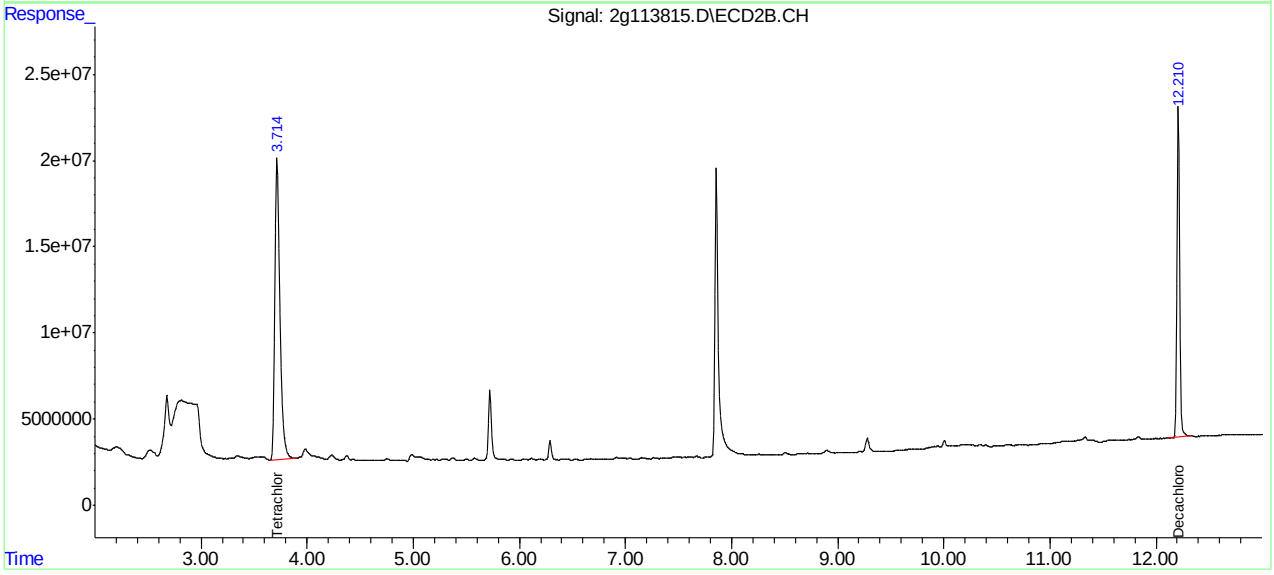
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3350\
Data File : 2g113815.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2015 2:37 am
Operator : dylang
Sample : jb94209-14
Misc : op83793,G2G3350,300,,,2,1
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 13 10:37:13 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna 05/14/15 14:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3350\
Data File : 2g113816.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2015 2:54 am
Operator : dylang
Sample : jb94209-15
Misc : op83793,G2G3350,300,,,2,1
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 13 10:37:34 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.129	3.714	882.9E6	545.0E6	32.518m	35.568m
Spiked Amount 40.000			Recovery	=	81.30%	88.92%
51) S Decachlor...	10.602	12.209	555.1E6	212.0E6	21.029	18.757
Spiked Amount 40.000			Recovery	=	52.57%	46.89%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.1.35

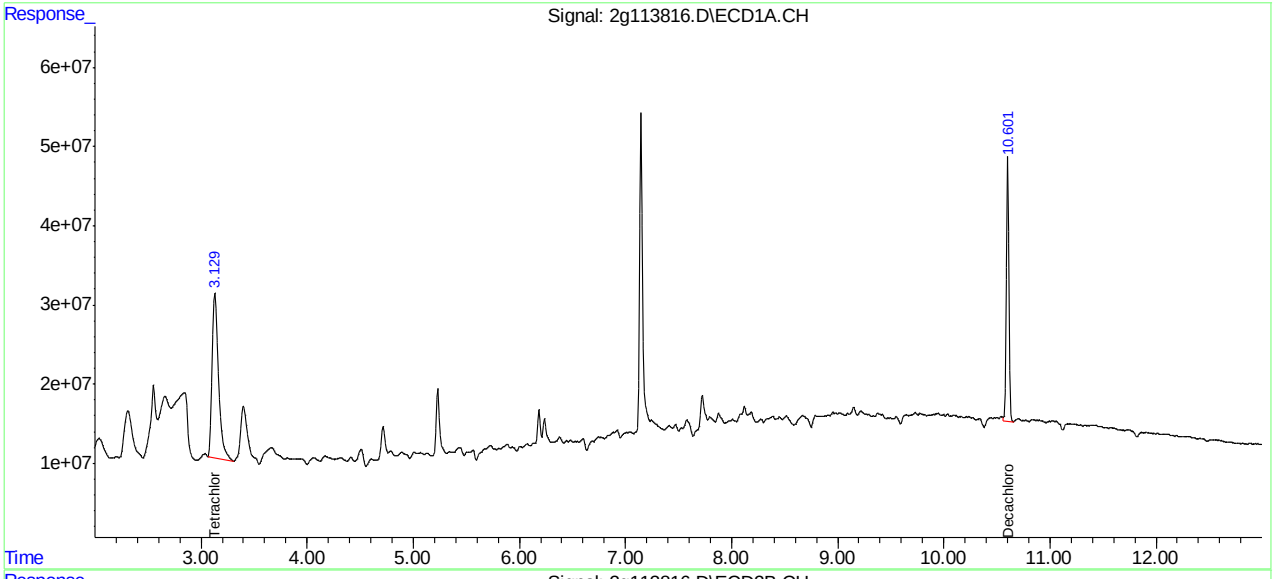
11

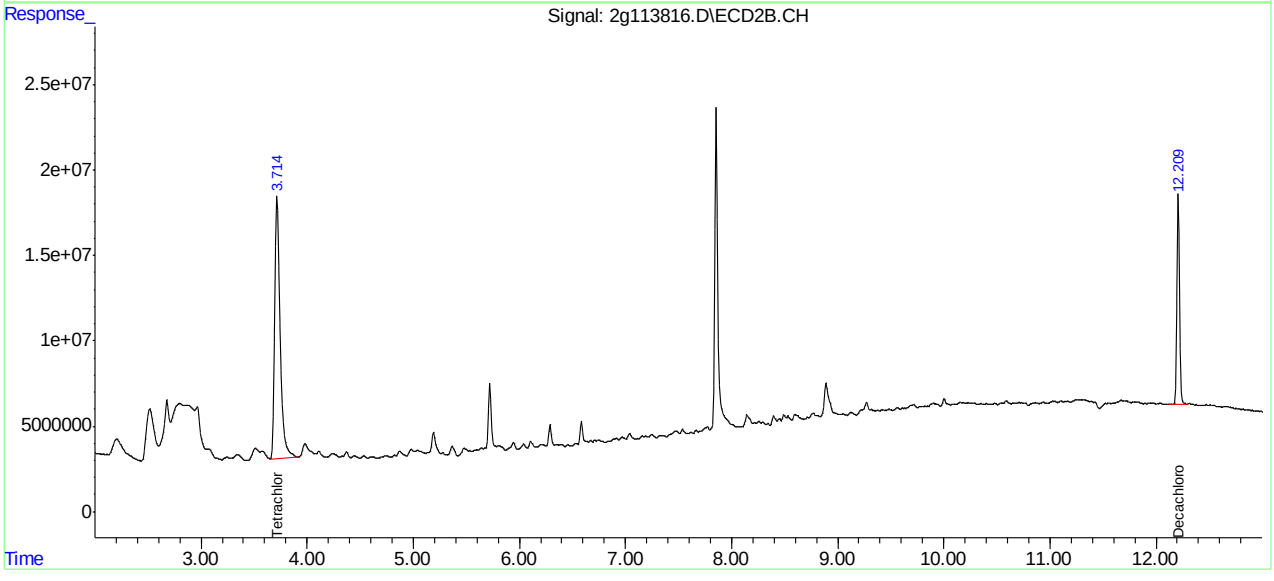
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3350\
Data File : 2g113816.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2015 2:54 am
Operator : dylang
Sample : jb94209-15
Misc : op83793,G2G3350,300,,,2,1
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 13 10:37:34 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integrations
APPROVED
(compounds with "m" flag)
Owen McKenna
05/14/15 14:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3350\
Data File : 2g113817.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2015 3:11 am
Operator : dylang
Sample : jb94209-16
Misc : op83793,G2G3350,300,,,2,1
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 13 10:37:53 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.125	3.714	989.7E6	479.1E6	36.451	31.268m
Spiked Amount 40.000			Recovery	=	91.13%	78.17%
51) S Decachlor...	10.602	12.209	692.0E6	258.6E6	26.215	22.881
Spiked Amount 40.000			Recovery	=	65.54%	57.20%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

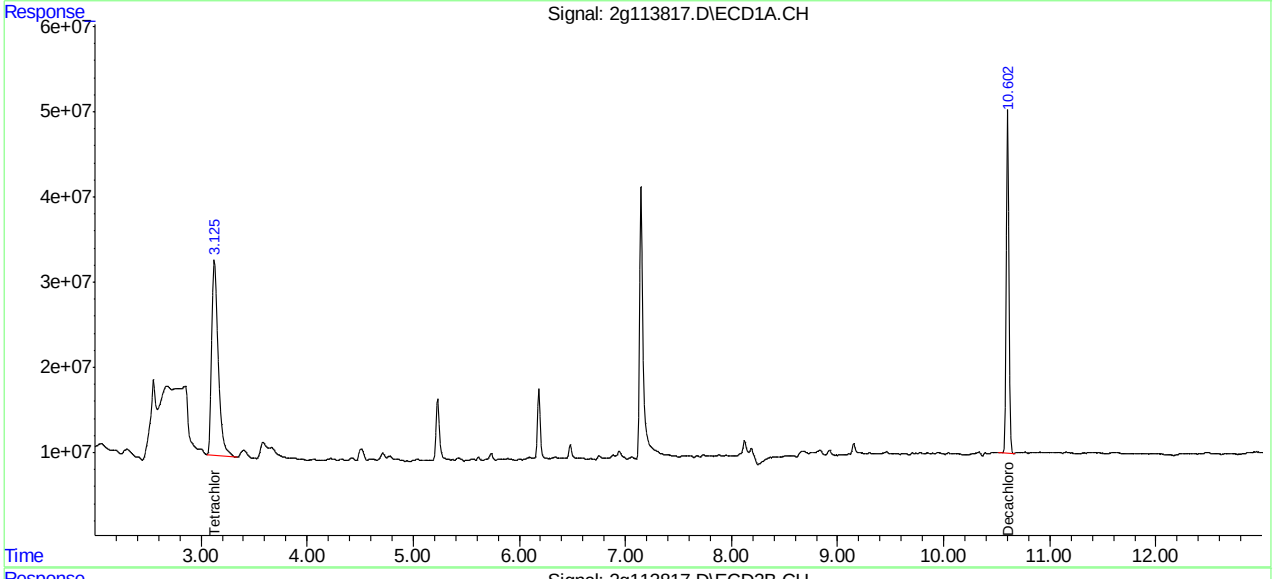
11.1.36
11

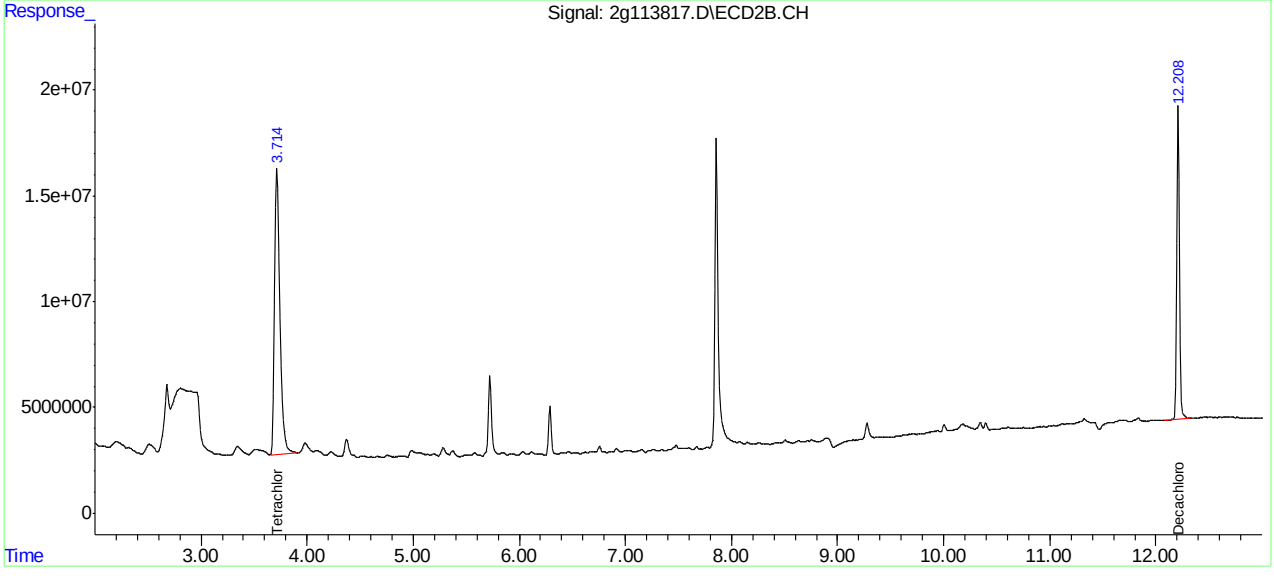
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3350\
Data File : 2g113817.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2015 3:11 am
Operator : dylang
Sample : jb94209-16
Misc : op83793,G2G3350,300,,,2,1
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 13 10:37:53 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna
05/14/15 14:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3350\
Data File : 2g113818.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2015 3:28 am
Operator : dylang
Sample : jb94209-17
Misc : op83793,G2G3350,300,,,2,1
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 13 10:38:27 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.125	3.715	1233.9E6	576.4E6	45.446m	37.618m
Spiked Amount 40.000			Recovery	=	113.61%	94.05%
51) S Decachlor...	10.602	12.209	510.3E6	183.1E6	19.333m	16.202m
Spiked Amount 40.000			Recovery	=	48.33%	40.51%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.1.37

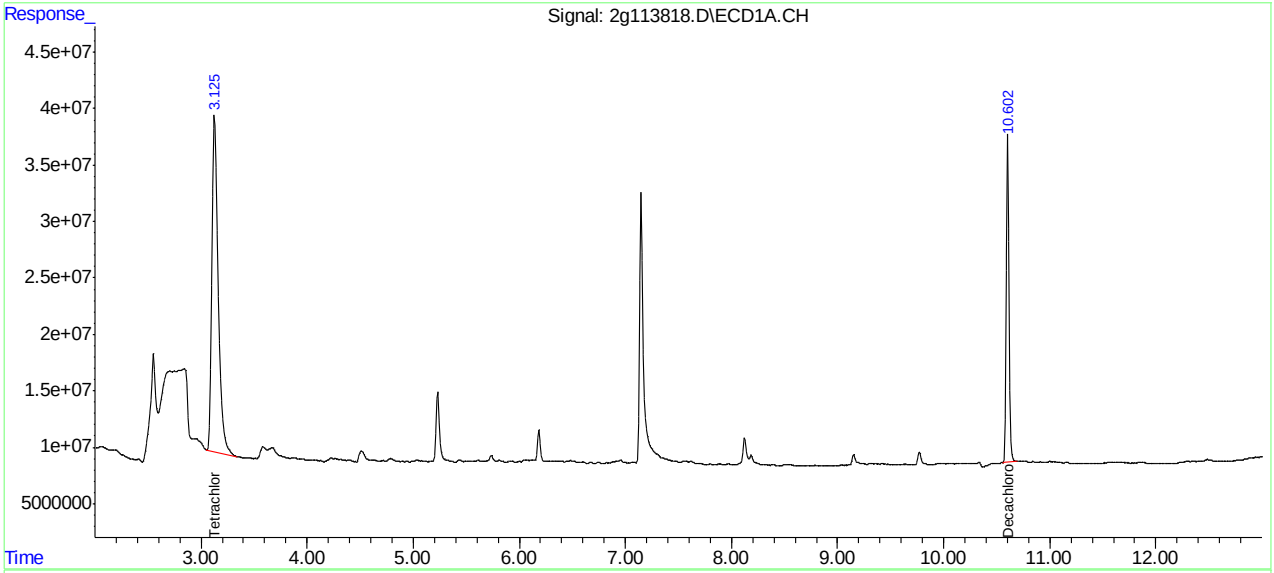
11

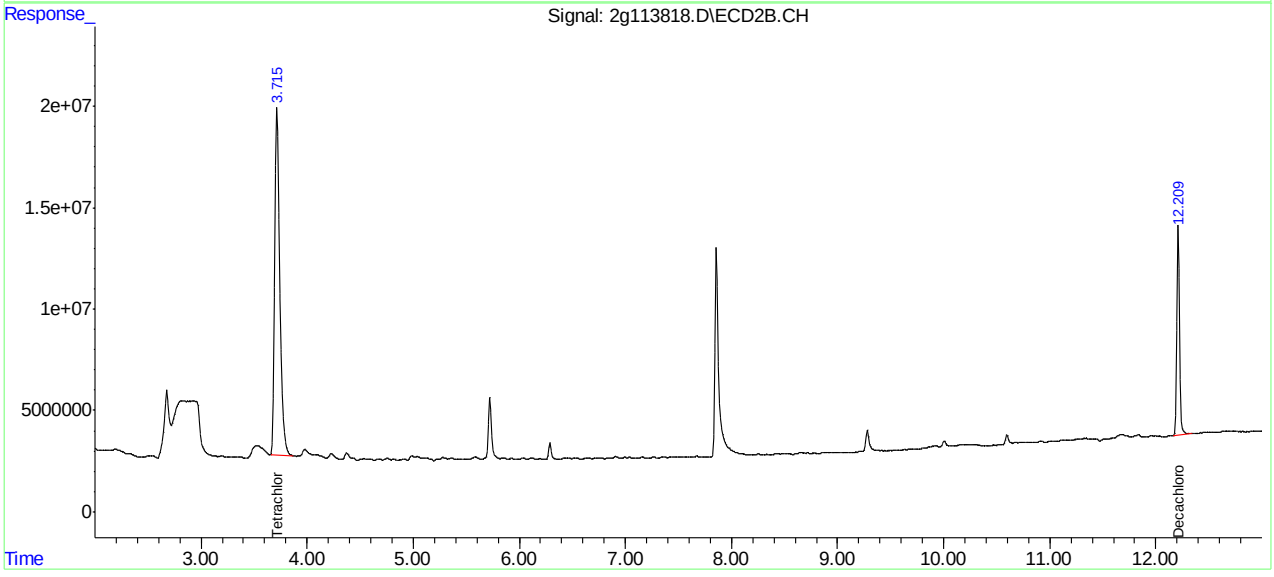
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3350\
Data File : 2g113818.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2015 3:28 am
Operator : dylang
Sample : jb94209-17
Misc : op83793,G2G3350,300,,,2,1
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 13 10:38:27 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/12/15 14:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3349\
Data File : 2g113726.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 May 2015 10:13 pm
Operator : dylang
Sample : jb94209-18
Misc : op83802,G2G3349,16.3,,,10,1
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 12 11:32:39 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.126	3.713	740.9E6	377.1E6	27.287m	24.609m
Spiked Amount 40.000			Recovery	=	68.22%	61.52%
51) S Decachlor...	10.601	12.216	1057.4E6	727.9E6	40.061m	64.402m#
Spiked Amount 40.000			Recovery	=	100.15%	161.01%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.1.38

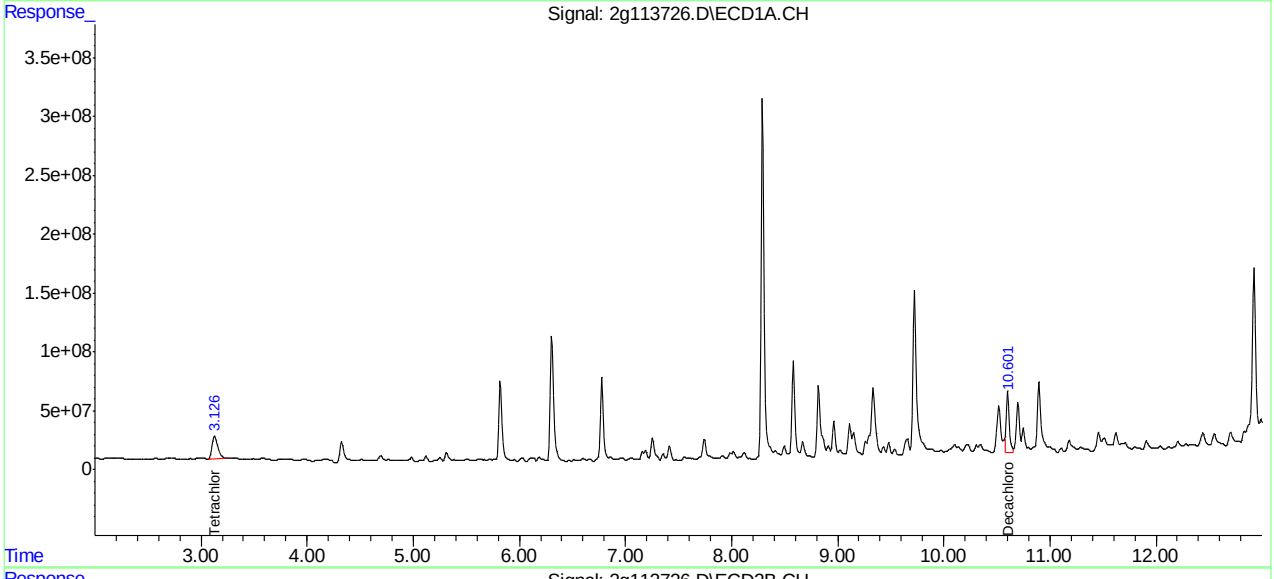
11

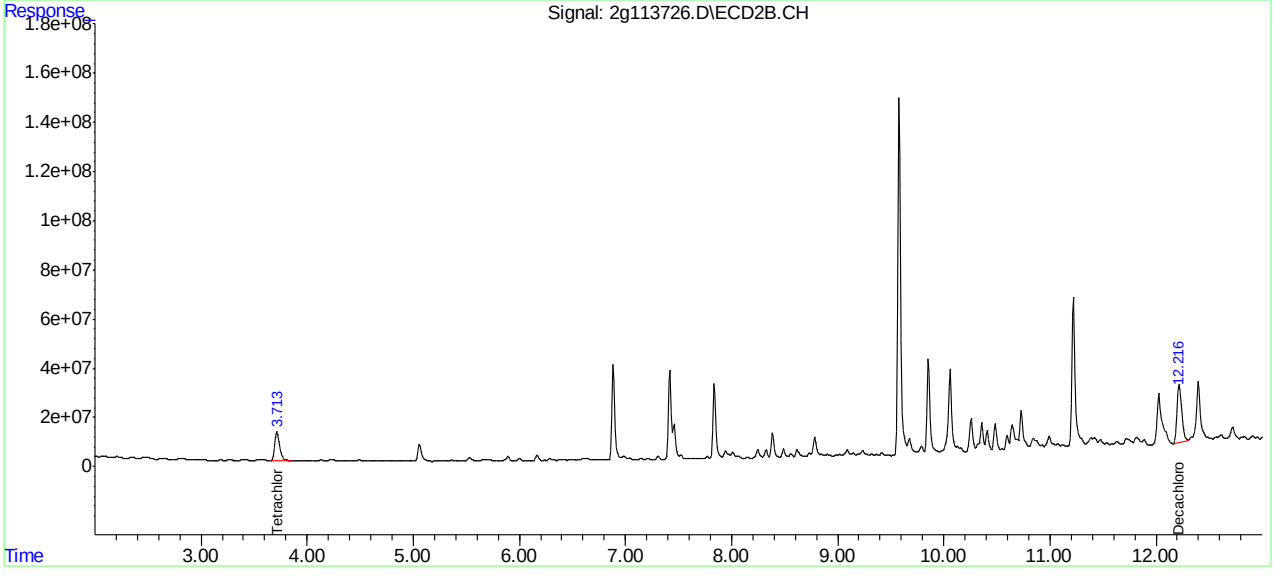
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3349\
Data File : 2g113726.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 May 2015 10:13 pm
Operator : dylang
Sample : jb94209-18
Misc : op83802,G2G3349,16.3,,,10,1
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 12 11:32:39 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3674\1G111469.D\ECD1A.CH Vial: 44
Signal #2 : C:\MSDCHEM\1\DATA\1G3674\1G111469.D\ECD2B.CH
Acq On : 5-11-15 09:53:07 AM Operator: yvelandd
Sample : op83792-mb1 Inst : GC1G
Misc : op83792,G1G3674,300,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 11 12:02 2015 Quant Results File: 1PST3672.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3672.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 11 08:10:50 2015
Response via : Initial Calibration
DataAcq Meth : 1PST3672.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2-nitrob	1.55	1.74	125.9E6	528.8E6	50.000	50.000
25) I 1-bromo-2-nitrob	1.55	1.74	125.9E6	528.8E6	50.000	50.000
31) I 1-bromo-2-nitrob	1.55	1.74	125.9E6	528.8E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachloro-m-xy	2.27	2.69	89758240	370.3E6	33.917	42.061
Spiked Amount 40.000	Range 30 - 150		Recovery =		84.79%	105.15%
24) SA Decachlorobiphen	9.58	10.62	78384303	231.1E6	33.323	35.317
Spiked Amount 40.000			Recovery =		83.31%	88.29%
Target Compounds						

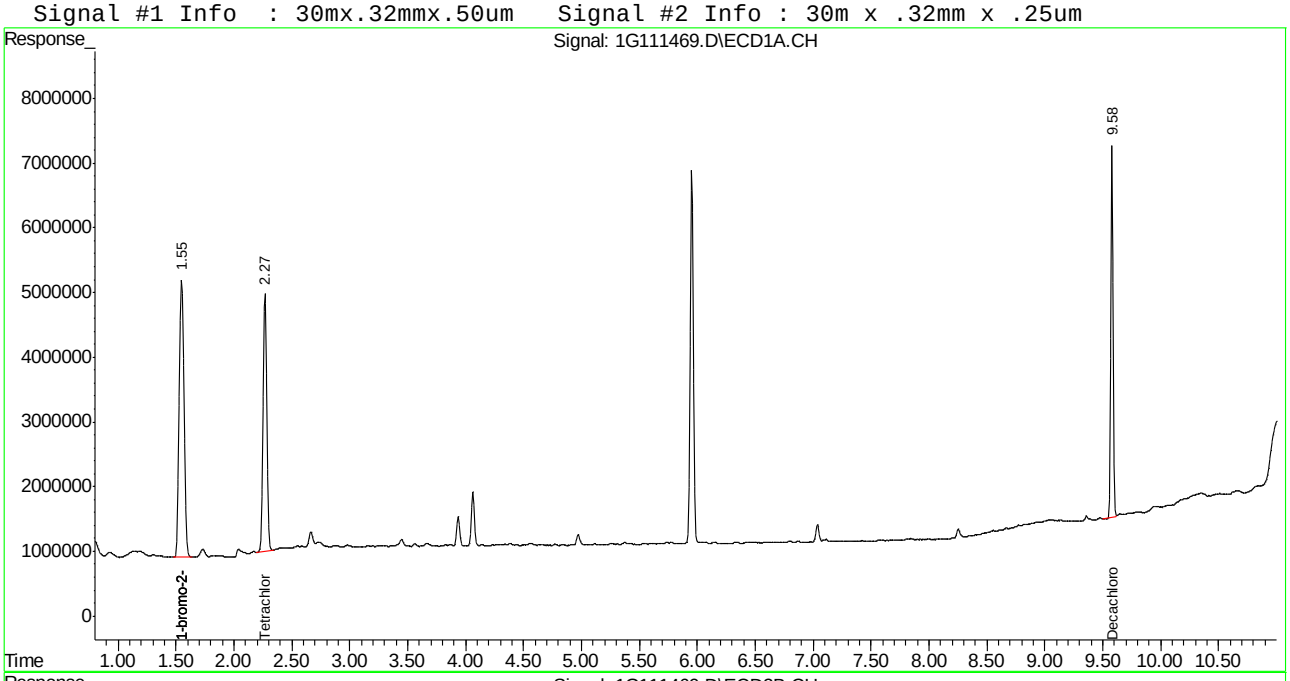
(f)=RT Delta > 1/2 Window (m)=manual int.
1G111469.D 1PST3672.M Mon May 11 12:03:02 2015 RPT1

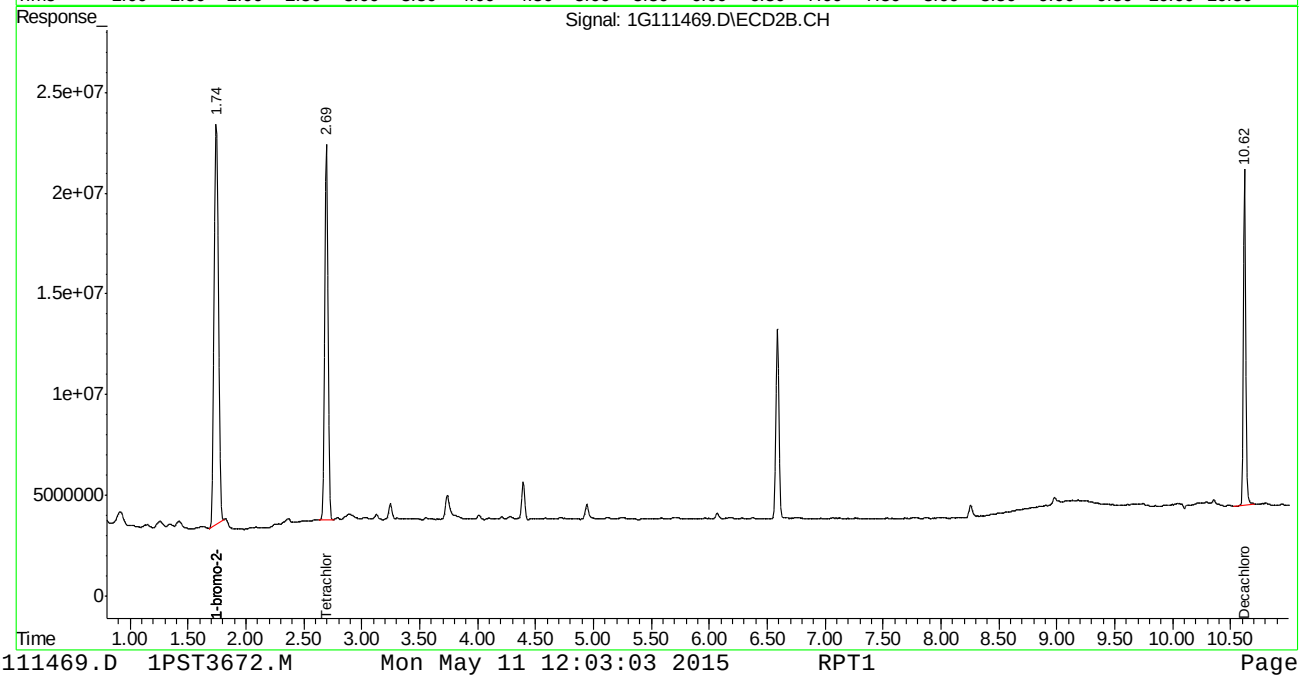
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3674\1G111469.D\ECD1A.CH Vial: 44
Signal #2 : C:\MSDCHEM\1\DATA\1G3674\1G111469.D\ECD2B.CH
Acq On : 5-11-15 09:53:07 AM Operator: yvelandd
Sample : op83792-mb1 Inst : GC1G
Misc : op83792,G1G3674,300,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 11 12:02 2015 Quant Results File: 1PST3672.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3672.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 11 08:10:50 2015
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3672.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/11/15 15:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3349\
Data File : 2g113691.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 May 2015 10:56 am
Operator : dylang
Sample : op83802-mb1
Misc : op83802,G2G3349,15.0,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 11 11:35:16 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.121	3.710	1406.8E6	675.2E6	51.815	44.068
Spiked Amount 40.000			Recovery	=	129.54%	110.17%
51) S Decachlor...	10.600	12.208	1082.6E6	408.6E6	41.016m	36.152m
Spiked Amount 40.000			Recovery	=	102.54%	90.38%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.2.2

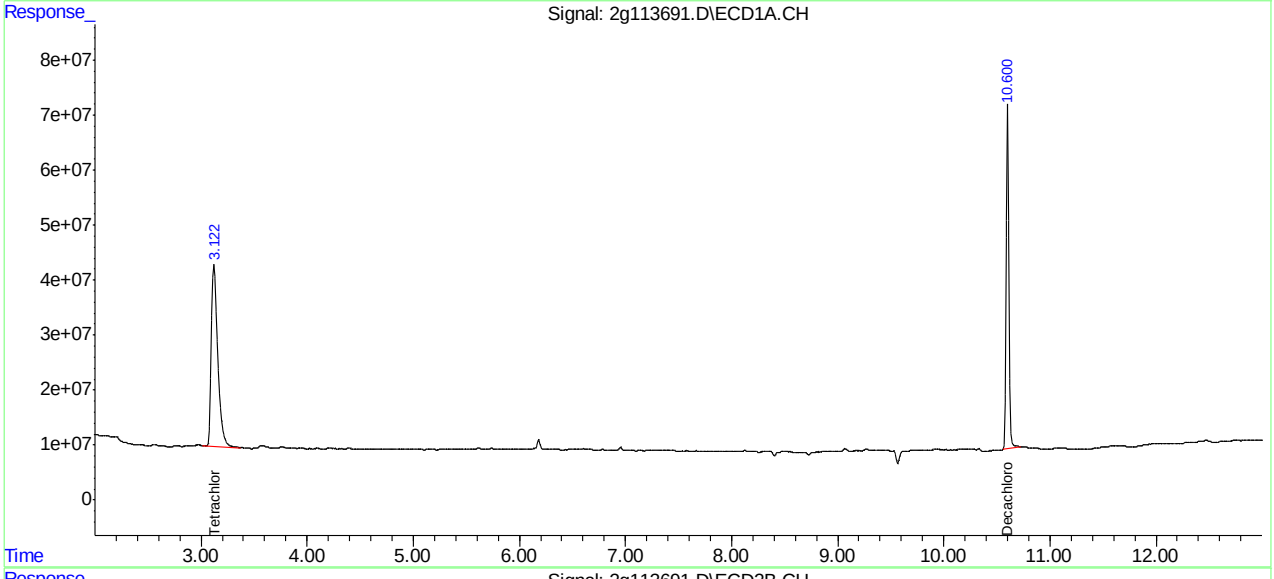
11

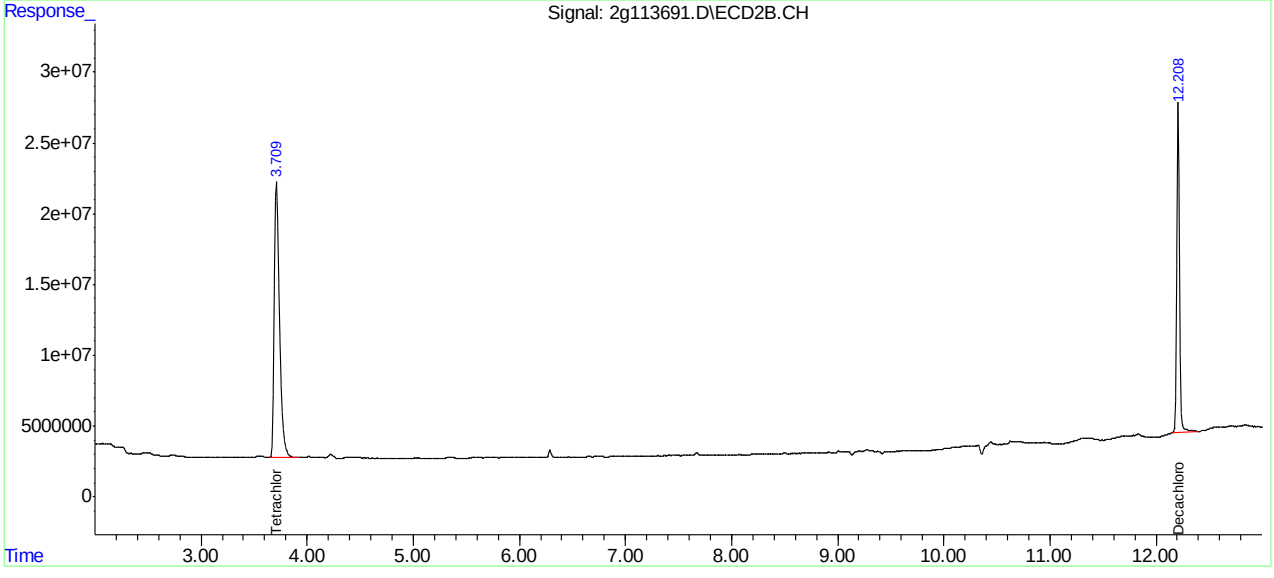
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3349\
Data File : 2g113691.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 May 2015 10:56 am
Operator : dylang
Sample : op83802-mb1
Misc : op83802,G2G3349,15.0,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 11 11:35:16 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integrations
APPROVED
(compounds with "m" flag)
Owen McKenna
05/13/15 17:14

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3351\
Data File : 2g113835.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2015 1:32 pm
Operator : dylang
Sample : op83793-mb1
Misc : op83793,G2G3351,250,,,2,1
ALS Vial : 58 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 13 14:43:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.122	3.709	1292.8E6	618.6E6	47.616m	40.375m
Spiked Amount 40.000			Recovery	=	119.04%	100.94%
51) S Decachlor...	10.600	12.207	1158.8E6	422.5E6	43.900	37.382
Spiked Amount 40.000			Recovery	=	109.75%	93.45%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

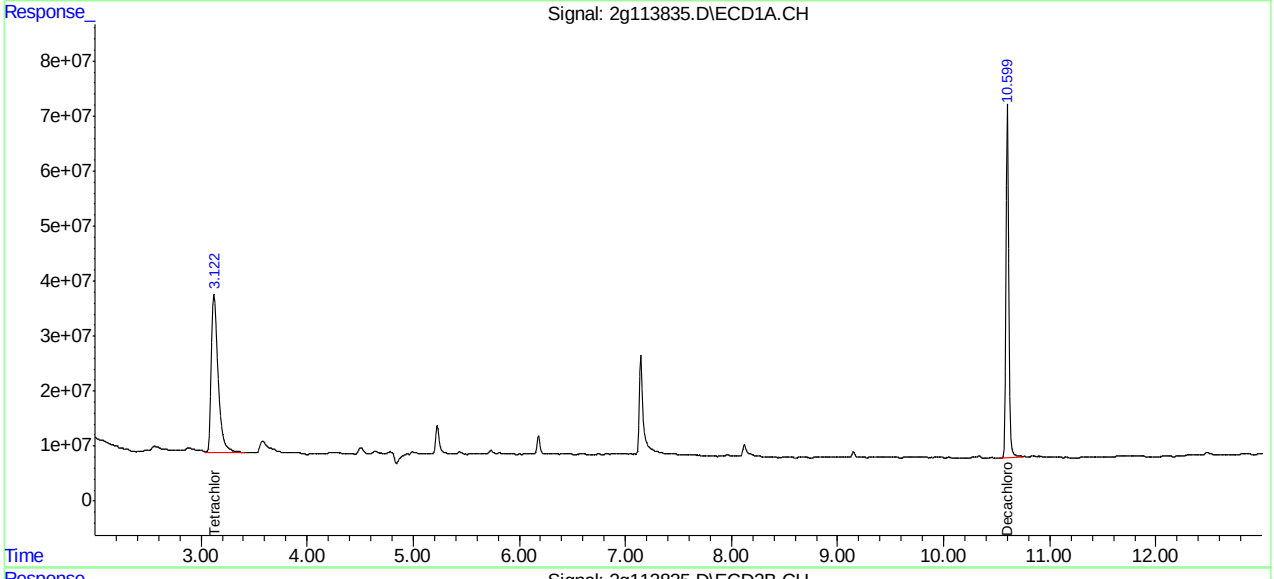
11.2.3
11

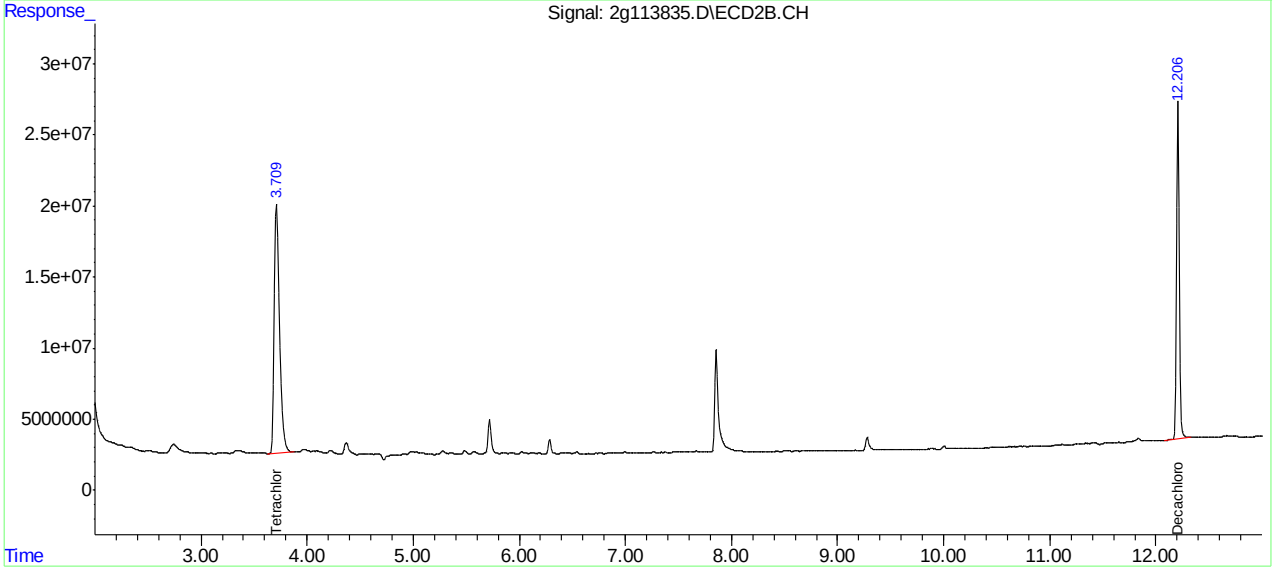
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3351\
Data File : 2g113835.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2015 1:32 pm
Operator : dylang
Sample : op83793-mb1
Misc : op83793,G2G3351,250,,,2,1
ALS Vial : 58 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 13 14:43:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:15:22 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integrations
APPROVED
(compounds with "m" flag)
Owen McKenna
05/14/15 14:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56086.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 9:33 am
Operator : yvelannd
Sample : op83920-mb1
Misc : op83920,g4g1469,15.0,,,10,1
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 10:58:42 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 14 10:13:14 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2...	1.778	1.963	117.4E6	154.7E6	50.000	50.000
25) I 1-bromo-2...	1.778	1.963	117.4E6	154.7E6	50.000	50.000
31) I 1-bromo-2...	1.778	1.963	117.4E6	154.7E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	2.224	2.616	69491278	90005756	34.447	33.874
Spiked Amount	40.000	Range	30 - 150	Recovery	= 86.12%	84.69%
24) SA Decachlor...	9.129f	10.796	57335151	62790387	31.028m	30.896
Spiked Amount	40.000			Recovery	= 77.57%	77.24%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

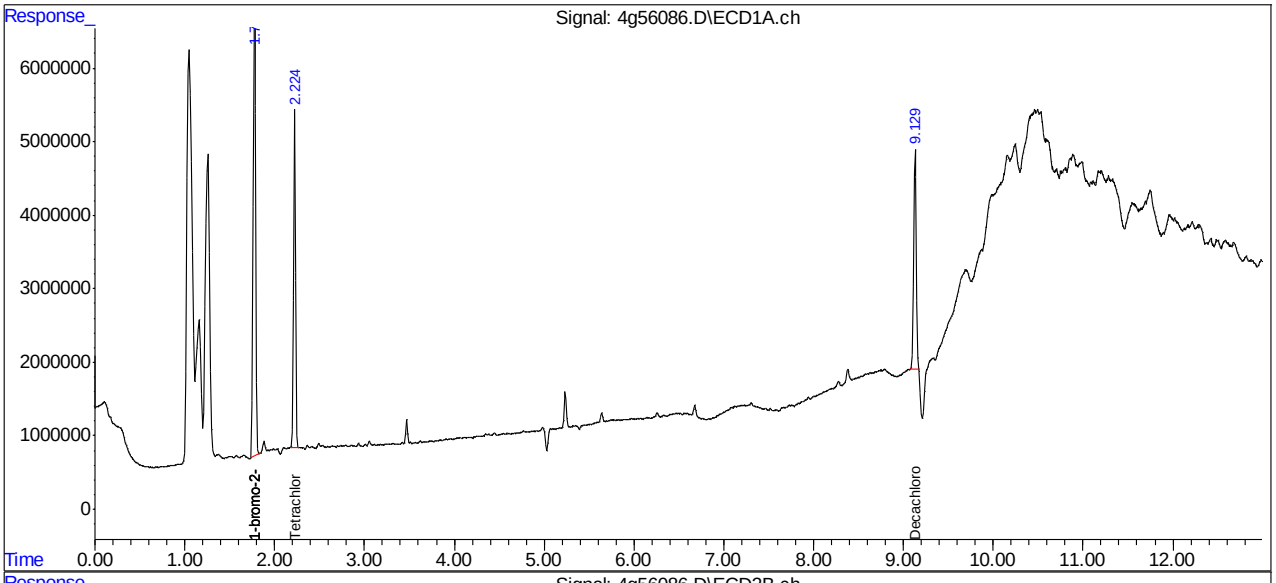
11.2.4
11

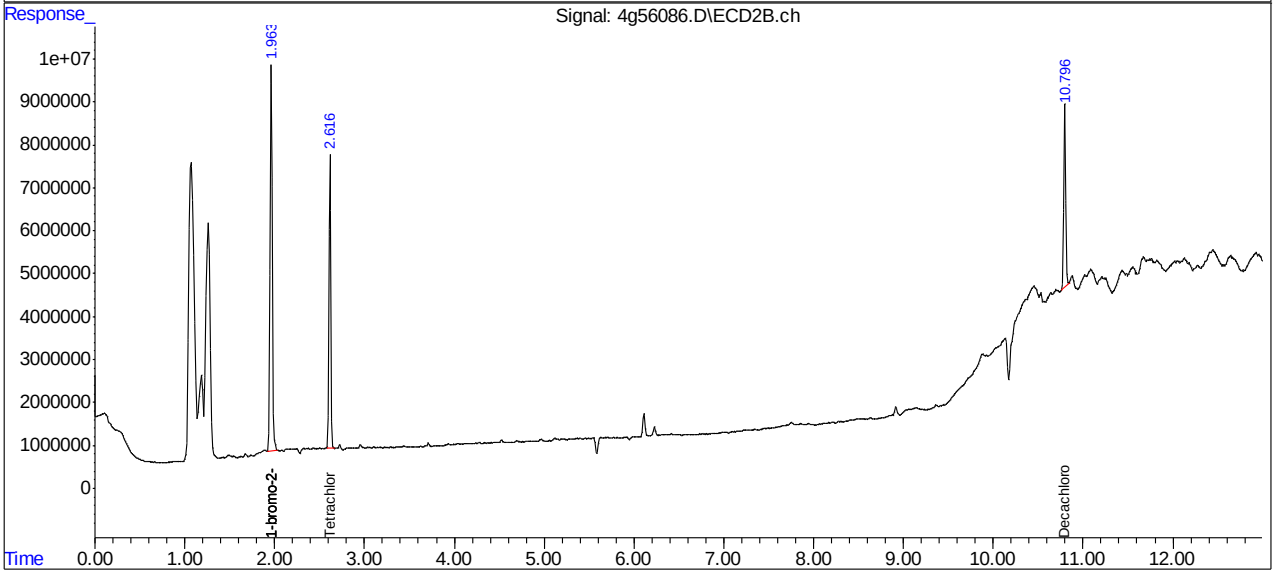
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1469\
Data File : 4g56086.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2015 9:33 am
Operator : yvelannd
Sample : op83920-mb1
Misc : op83920,g4g1469,15.0,,,10,1
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 10:58:42 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 14 10:13:14 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations
APPROVED
(compounds with "m" flag)
Owen McKenna
05/14/15 17:05

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\684\
Data File : 6g22917.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 May 2015 9:44 am
Operator : yvelandd
Sample : op83920-mb1
Misc : op83920,g6g684,15.0,,,10,1
ALS Vial : 55 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 13:05:40 2015
Quant Method : C:\MSDCHEM\1\METHODS\6PST675.M
Quant Title : PEST/PCB
QLast Update : Mon May 04 10:28:16 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.377	1.479	177.9E6	235.9E6	50.000	50.000
25) I	1-bromo-2...	1.377	1.479	177.9E6	235.9E6	50.000	50.000
31) I	1-bromo-2...	1.377	1.479	177.9E6	235.9E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.056	2.363	103.1E6	135.8E6	35.804	36.727
Spiked Amount		40.000	Range	30 - 150	Recovery	= 89.51%	91.82%
24) SAB	Decachlor...	10.162f	11.613	75031183	105.5E6	29.700m	39.344m#
Spiked Amount		40.000			Recovery	= 74.25%	98.36%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

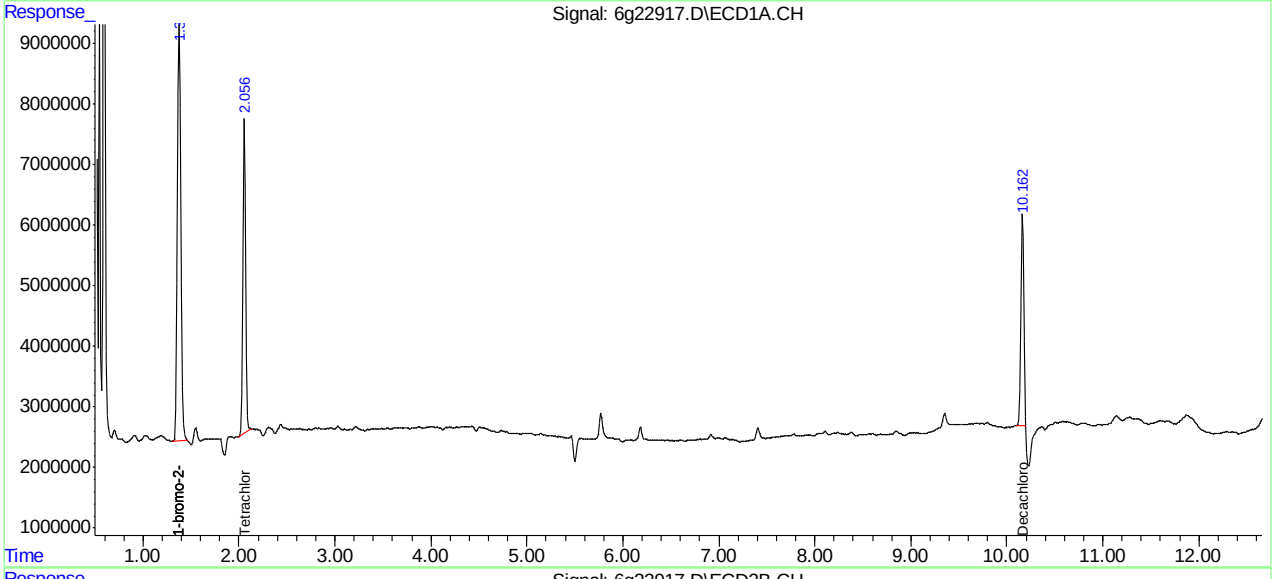
11.2.5
11

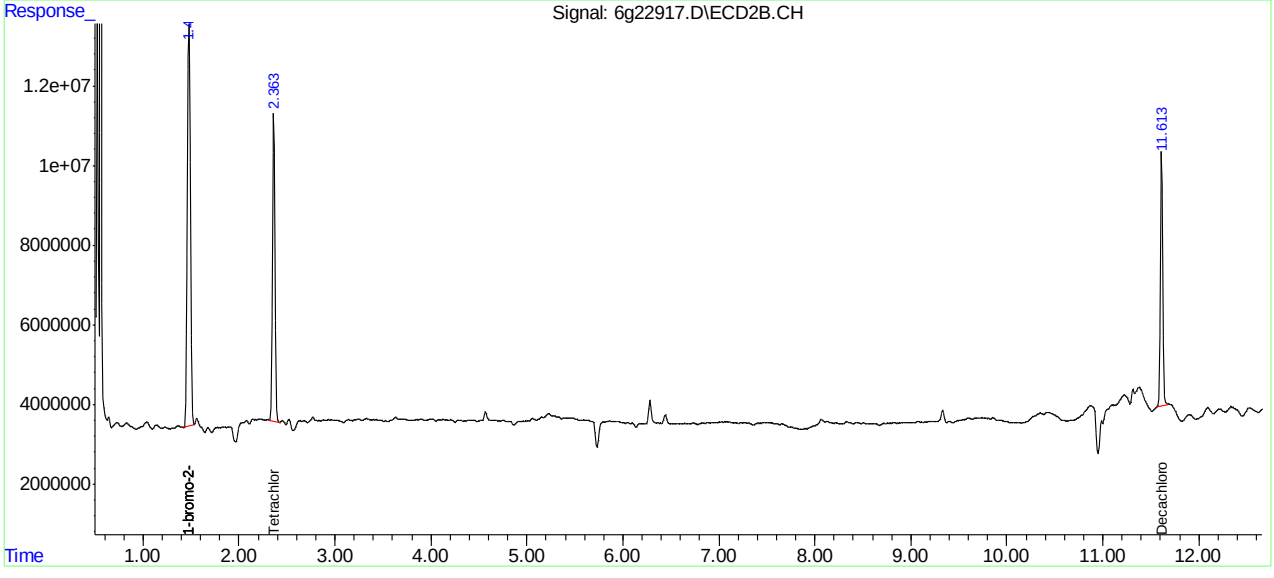
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\684\
Data File : 6g22917.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 May 2015 9:44 am
Operator : yvelandd
Sample : op83920-mb1
Misc : op83920,g6g684,15.0,,,10,1
ALS Vial : 55 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 14 13:05:40 2015
Quant Method : C:\MSDCHEM\1\METHODS\6PST675.M
Quant Title : PEST/PCB
QLast Update : Mon May 04 10:28:16 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/11/15 12:47

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3672\1G111429.D\ECD1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\1G3672\1G111429.D\ECD2B.CH
Acq On : 5-8-15 05:01:43 PM Operator: josephr
Sample : icc3672-25 Inst : GC1G
Misc : op83750,G1G3672,15.2,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 11 8:08 2015 Quant Results File: 1PST3672.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3672.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 11 07:16:10 2015
Response via : Initial Calibration
DataAcq Meth : 1PST3672.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.56	1.75	189.0E6	830.1E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	2.28	2.70	93271801	346.4E6	24.341	22.346m
Spiked Amount	40.000	Range	30 - 150	Recovery	=	60.85%	55.86%
24) SA	Decachlorobiphen	9.58	10.62	85368207	253.2E6	20.206	22.866m
Spiked Amount	40.000			Recovery	=	50.52%	57.16%
	Target Compounds						
3) A	alpha-BHC	2.84	3.41	121.5E6	510.9E6	25.024	24.166
4) MA	gamma-BHC	3.18	3.86	119.0E6	479.0E6	24.706	23.795
5) MA	Heptachlor	3.71	4.45	119.8E6	409.7E6	23.653	23.571
6) B	beta-BHC	3.26	3.94	54609213	203.6E6	22.096	21.637
7) B	delta-BHC	3.47	4.34	101.8E6	423.7E6	22.895	22.388
8) MB	Aldrin	4.08	4.92	109.2E6	415.5E6	24.325	23.443
9) B	Heptachlor Epoxi	4.85	5.75	104.7E6	379.5E6	22.979	23.293
10) B	gamma-Chlordane	5.02	6.04	105.4E6	380.9E6	23.027	23.483m
11) B	alpha-Chlordane	5.20	6.27	105.7E6	369.0E6	22.983	23.188
12) A	Endosulfan I	5.40	6.37	99780339	349.5E6	23.163	23.379
13) B	4,4'-DDE	5.31	6.52	101.3E6	372.3E6	24.844	24.764
14) MA	Dieldrin	5.74	6.81	108.8E6	389.3E6	23.850	24.262
15) MA	Endrin	6.09	7.32	99498873	338.7E6	26.153	26.819
16) A	4,4'-DDD	6.19	7.47	86072088	302.4E6	24.311	25.125
17) B	Endosulfan II	6.43	7.67	93911302	321.8E6	22.186	23.032
18) MA	4,4'-DDT	6.62	8.01	87095633	265.1E6	22.141	22.770m
19) B	Endrin Aldehyde	7.09	8.24	77843353	262.0E6	21.232	22.155m
20) B	Endosulfan Sulfa	7.80	8.66	75984423	251.4E6	19.655	21.495m
21) A	Methoxychlor	7.43	9.02	52005500	128.1E6	20.445m	23.066m
22)	Mirex	7.61	9.28	88250599	246.1E6	20.892	23.542
23) B	Endrin Ketone	8.27	9.34	100.0E6	313.9E6	19.905m	21.576

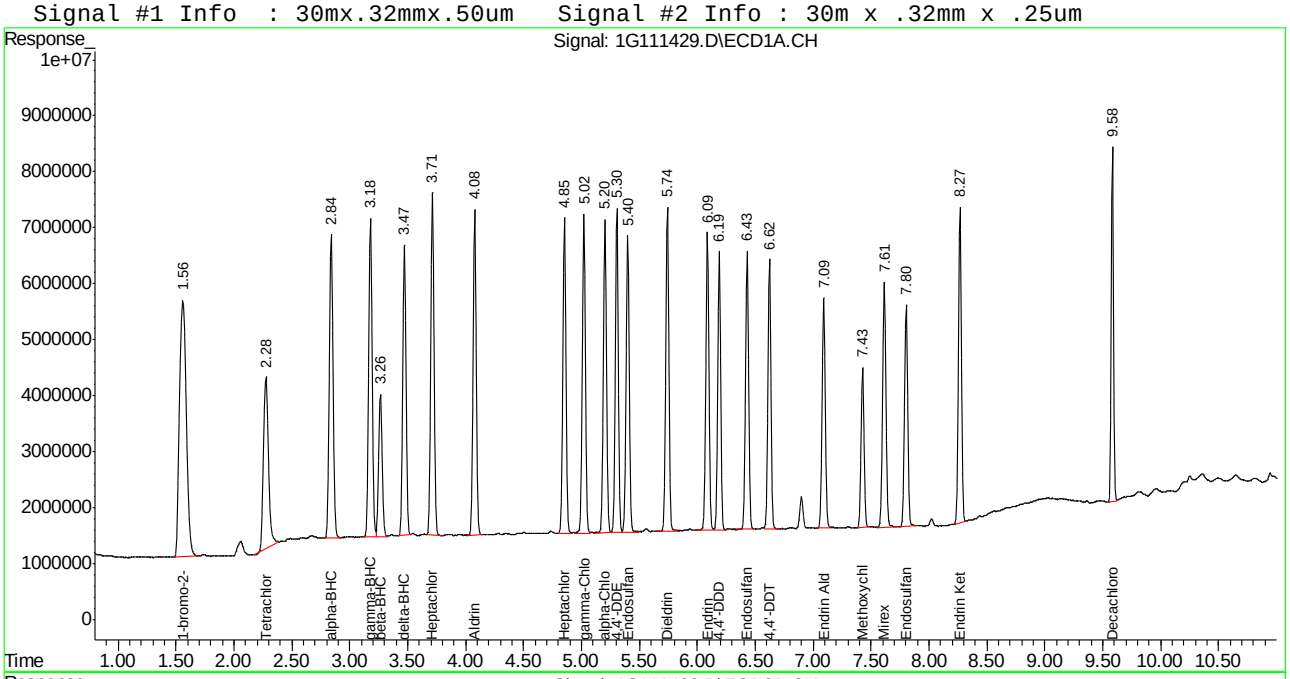
(f)=RT Delta > 1/2 Window (m)=manual int.

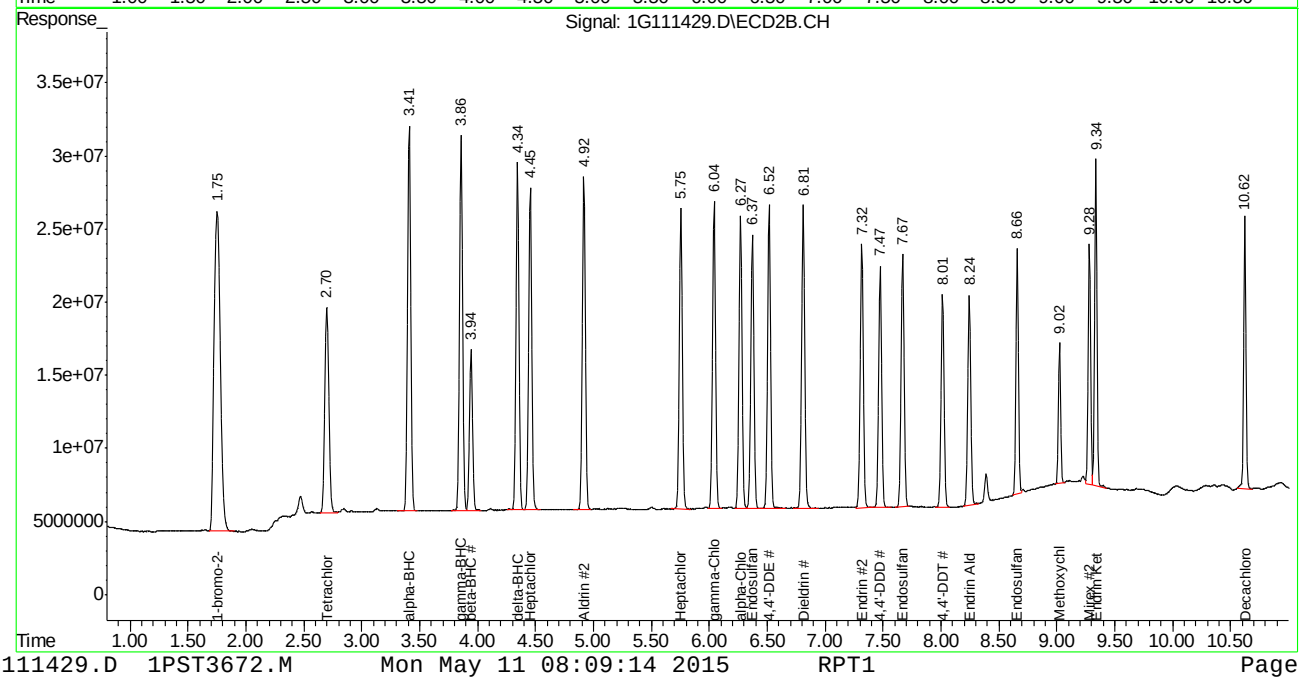
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3672\1G111429.D\ECD1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\1G3672\1G111429.D\ECD2B.CH
Acq On : 5-8-15 05:01:43 PM Operator: josephr
Sample : icc3672-25 Inst : GC1G
Misc : op83750,G1G3672,15.2,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 11 8:08 2015 Quant Results File: 1PST3672.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3672.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 11 07:16:10 2015
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3672.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations
APPROVED
(compounds with "m" flag)
Gwendolyn Burns
05/11/15 12:47

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3672\1G111433.D\ECD1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\1G3672\1G111433.D\ECD2B.CH
Acq On    : 5-8-15 06:05:33 PM                      Operator: josephr
Sample    : ic3672-500                              Inst    : GC1G
Misc      : op83750,G1G3672,15.2,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 11  7:15 2015  Quant Results File: 1PST3672.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3672.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 11 07:11:02 2015
Response via : Initial Calibration
DataAcq Meth : 1PST3672.M

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.50um   Signal #2 Info : 30m x .32mm x .25um
```

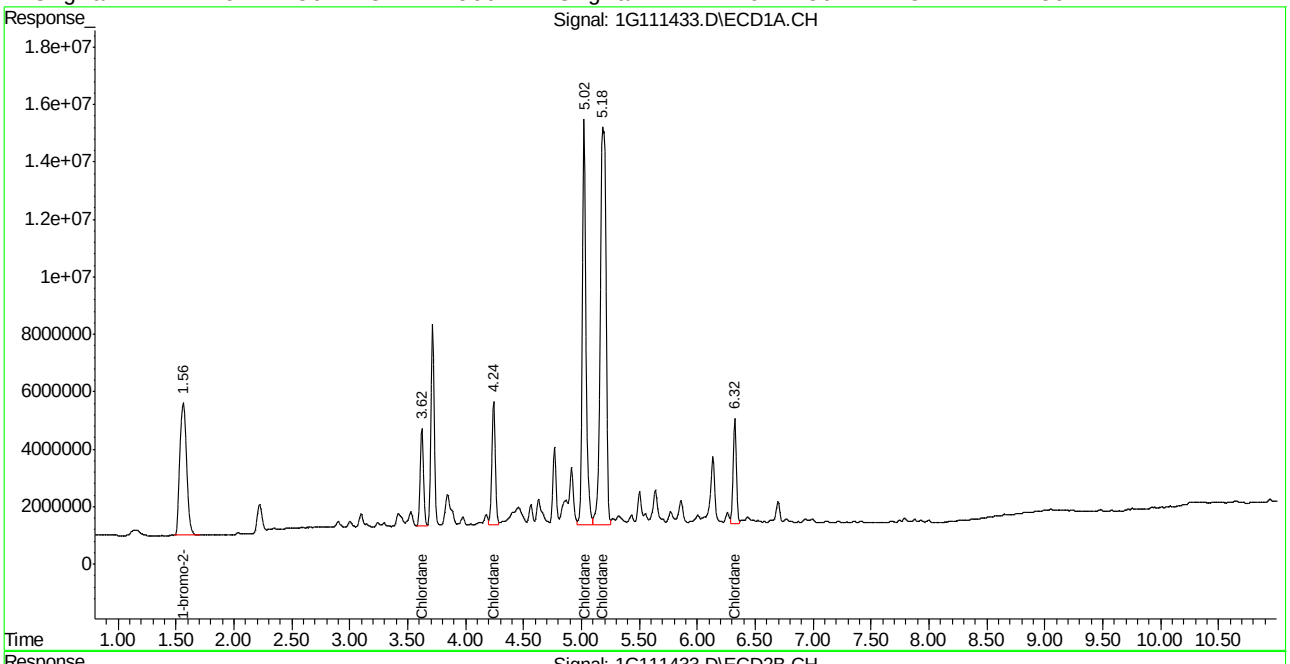
	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
31) I	1-bromo-2-nitrob	1.56	1.76	188.1E6	835.3E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
32)	Chlordane {A}	3.62	4.26	66941015	262.8E6	471.913	476.481
33)	Chlordane {B}	4.24	5.11	89512416	285.0E6	459.212	437.887
34)	Chlordane {C}	5.02	6.04	310.5E6	1020.0E6	485.878	474.101
35)	Chlordane {D}	5.18	6.27	485.2E6	1641.8E6	487.814	471.300m
36)	Chlordane {E}	6.32	7.75	72156219	248.8E6	456.479	470.770

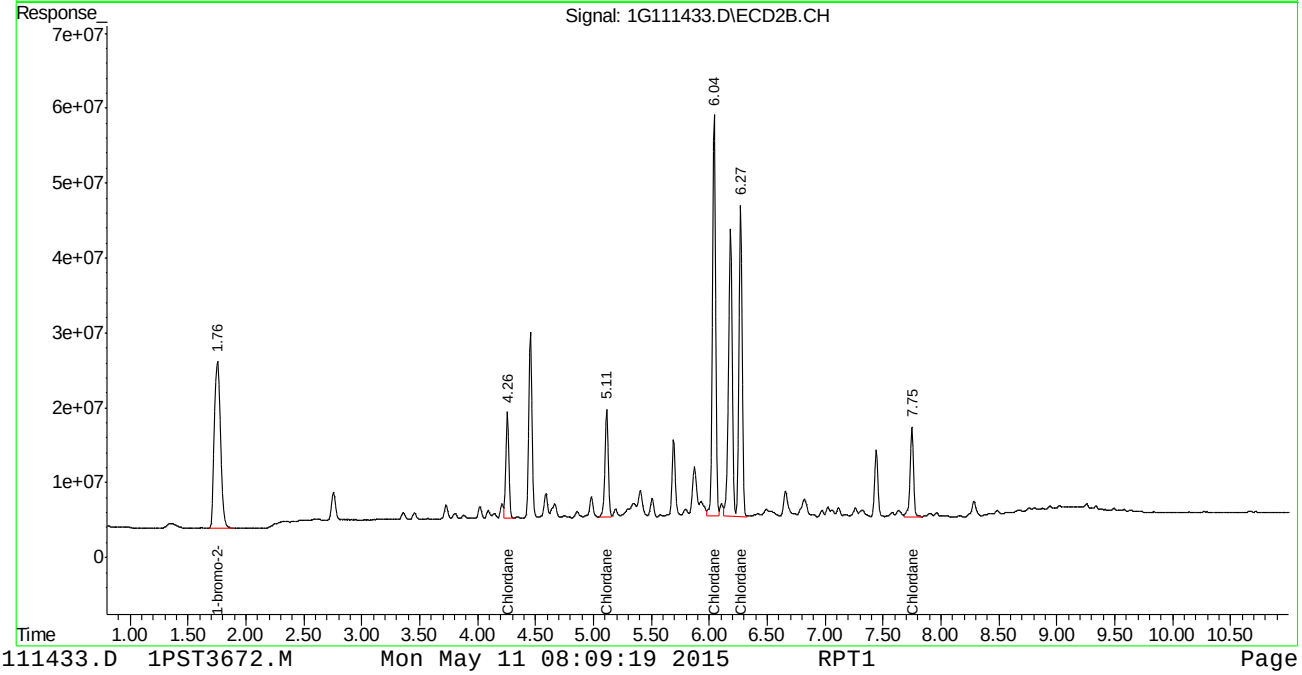
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3672\1G111433.D\ECD1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\1G3672\1G111433.D\ECD2B.CH
Acq On : 5-8-15 06:05:33 PM Operator: josephr
Sample : ic3672-500 Inst : GC1G
Misc : op83750,G1G3672,15.2,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 11 7:15 2015 Quant Results File: 1PST3672.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3672.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 11 07:11:02 2015
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3672.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3672\1G111434.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G3672\1G111434.D\ECD2B.CH
Acq On    : 5-8-15 06:21:43 PM                      Operator: josephr
Sample    : ic3672-500                              Inst    : GC1G
Misc      : op83750,G1G3672,15.2,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 11  7:15 2015  Quant Results File: 1PST3672.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3672.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 11 07:11:02 2015
Response via : Initial Calibration
DataAcq Meth : 1PST3672.M

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.50um   Signal #2 Info : 30m x .32mm x .25um
```

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		Internal Standards						
25)	I	1-bromo-2-nitrob	1.56	1.75	192.3E6	851.0E6	50.000	50.000
		System Monitoring Compounds						
		Target Compounds						
26)	L8	Toxaphene{A}	5.75	6.77	40469673	171.2E6	842.163	588.064
27)	L8	Toxaphene{B}	6.41	7.64	100.9E6	201.1E6	642.075	549.719
28)	L8	Toxaphene{C}	6.60	7.81	71483362	369.6E6	675.363	546.884
29)	L8	Toxaphene{D}	6.95	8.25	71441322	220.6E6	648.576	542.216
30)	L8	Toxaphene{E}	7.63	8.97	67026277	226.9E6	578.871	546.553

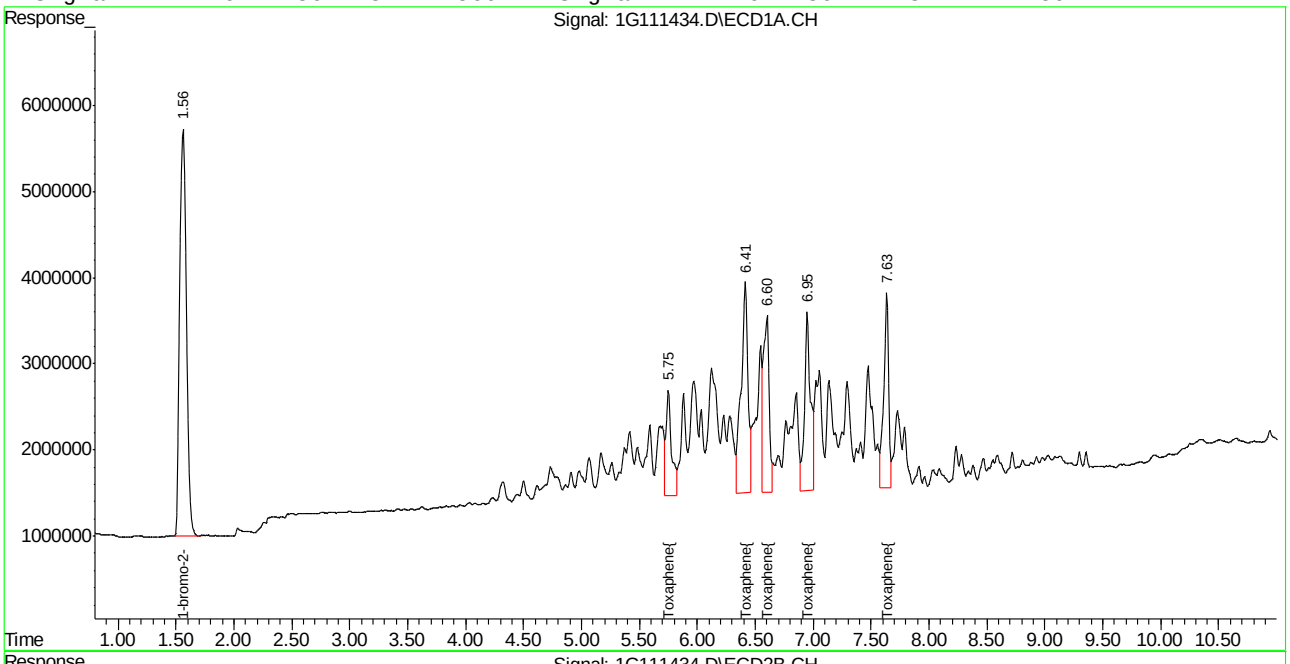
(f)=RT Delta > 1/2 Window (m)=manual int.

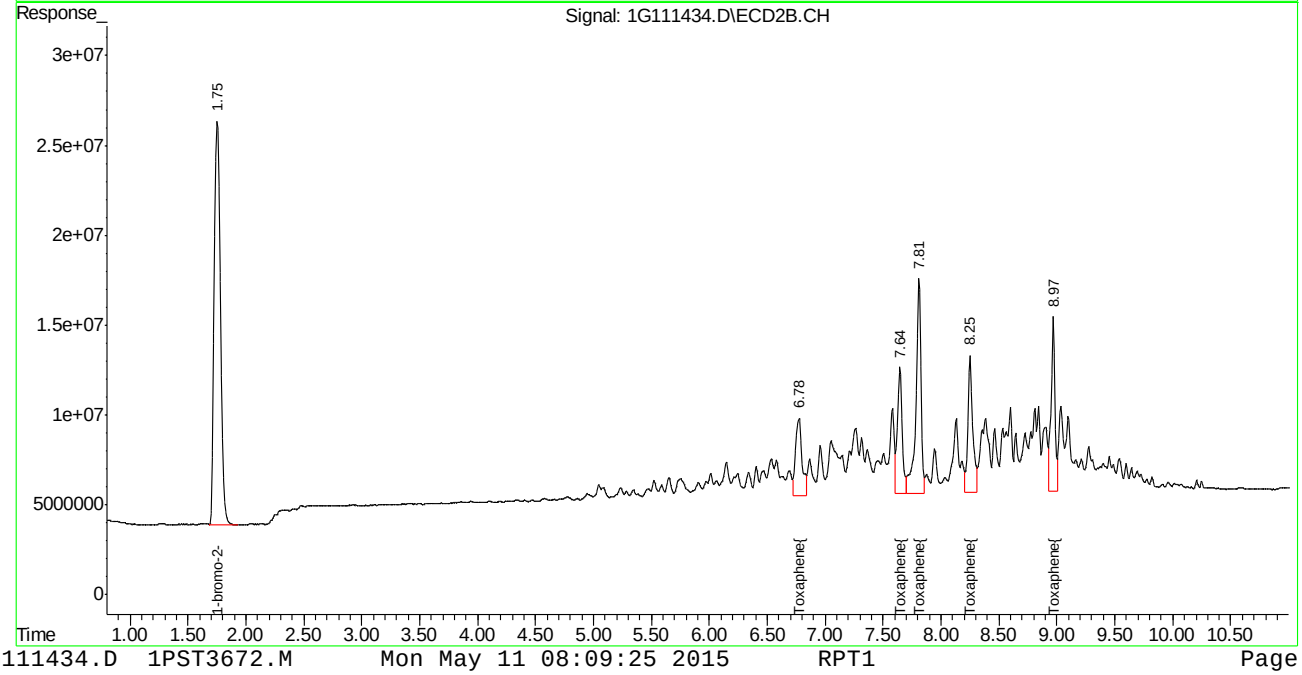
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3672\1G111434.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G3672\1G111434.D\ECD2B.CH
Acq On : 5-8-15 06:21:43 PM Operator: josephr
Sample : ic3672-500 Inst : GC1G
Misc : op83750,G1G3672,15.2,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 11 7:15 2015 Quant Results File: 1PST3672.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3672.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 11 07:11:02 2015
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3672.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1462\
Data File : 4g55795.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2015 1:14 pm
Operator : yvelandd
Sample : icc1462-25
Misc : op83565,g4g1462,15.2,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 09:12:07 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 07 09:09:28 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	Internal Standards							
1) I	1-bromo-2...	1.781	1.977	123.7E6	169.7E6	50.000	50.000	
25) I	1-bromo-2...	1.781	1.977	123.7E6	169.7E6	50.000	50.000	
31) I	1-bromo-2...	1.781	1.977	123.7E6	169.7E6	50.000	50.000	
	System Monitoring Compounds							
2) SAB	Tetrachlo...	2.220	2.627	50867535	70563103	22.260	20.113	
Spiked Amount		40.000	Range	30 - 150	Recovery	=	55.65%	50.28%
24) SA	Decachlor...	9.112	10.788	42927354	51859061	18.916	15.282	
Spiked Amount		40.000			Recovery	=	47.29%	38.20%
	Target Compounds							
3) A	alpha-BHC	2.602	3.194	65474383	95282983	21.774	20.847	
4) MA	gamma-BHC	2.850	3.575	64558471	91406508	21.580	20.184	
5) MA	Heptachlor	3.285	4.105	61480171	74338467	20.277	14.606	#
6) B	beta-BHC	2.910	3.647	30976460	42748675	20.793	18.797	
7) B	delta-BHC	3.072	4.010	55644718	78895963	21.351	20.268	
8) MB	Aldrin	3.586	4.525	54237531	78686880	20.566	18.090	
9) B	Heptachlo...	4.233	5.299	53694208	77086243	19.939	17.520	
10) B	gamma-Chl...	4.385	5.569	53864885	77355431	20.236	17.447	
11) B	alpha-Chl...	4.545	5.786	53232444	76829669	19.988	17.342	
12) A	Endosulfan I	4.710	5.877	49787650	71037196	19.950	17.570	
13) B	4,4'-DDE	4.648	6.040	47861460	68692534	19.836	17.908	
14) MA	Dieldrin	5.013	6.297	52263218	74439908	19.583	17.470	
15) MA	Endrin	5.319	6.783	48401000	66399453	20.033	18.140	
16) A	4,4'-DDD	5.435	6.961	40591271	56989337	19.415	18.273	
17) B	Endosulfa...	5.622	7.123	46889636	66141604	19.364	17.496	
18) MA	4,4'-DDT	5.839	7.484	41273701	45127505	18.513	12.784	#
19) B	Endrin Al...	6.222	7.684	38873614	51805969	19.070	15.880	
20) B	Endosulfa...	6.880	8.145	39464126	54278503	19.063	17.234	
21) A	Methoxychlor	6.598	8.714	25672464	26573124	17.607	12.326	#
22)	Mirex	6.744	9.022	45757179	61159805	19.226	16.327	
23) B	Endrin Ke...	7.306	9.090	47087044	61716305	18.021	16.857	

SemiQuant Compounds - Not Calibrated on this Instrument

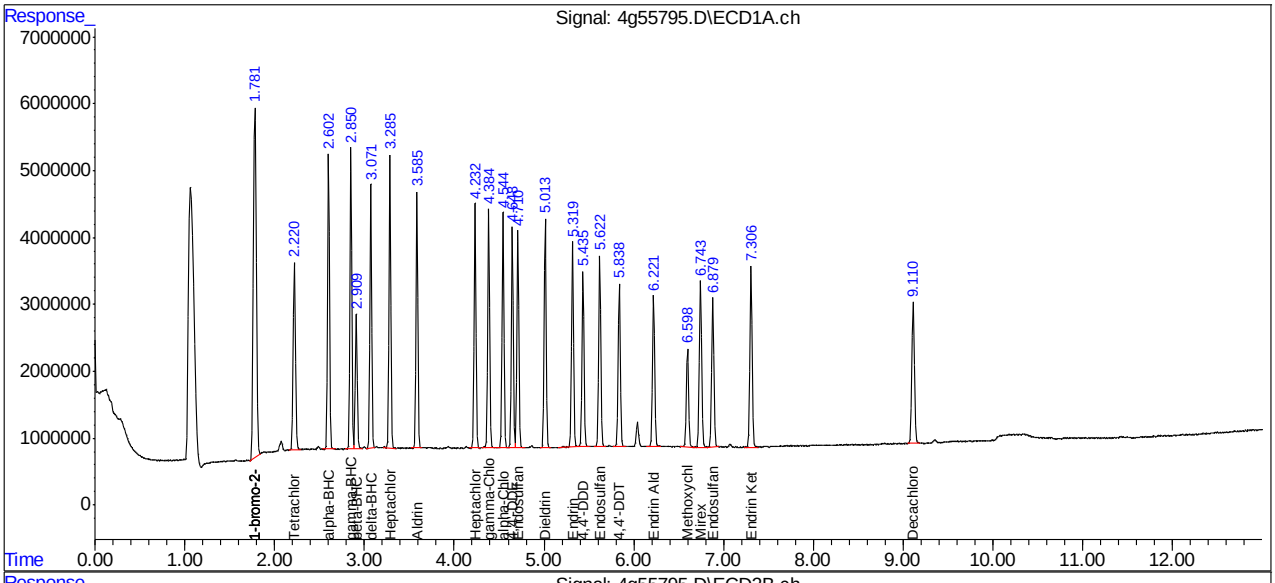
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

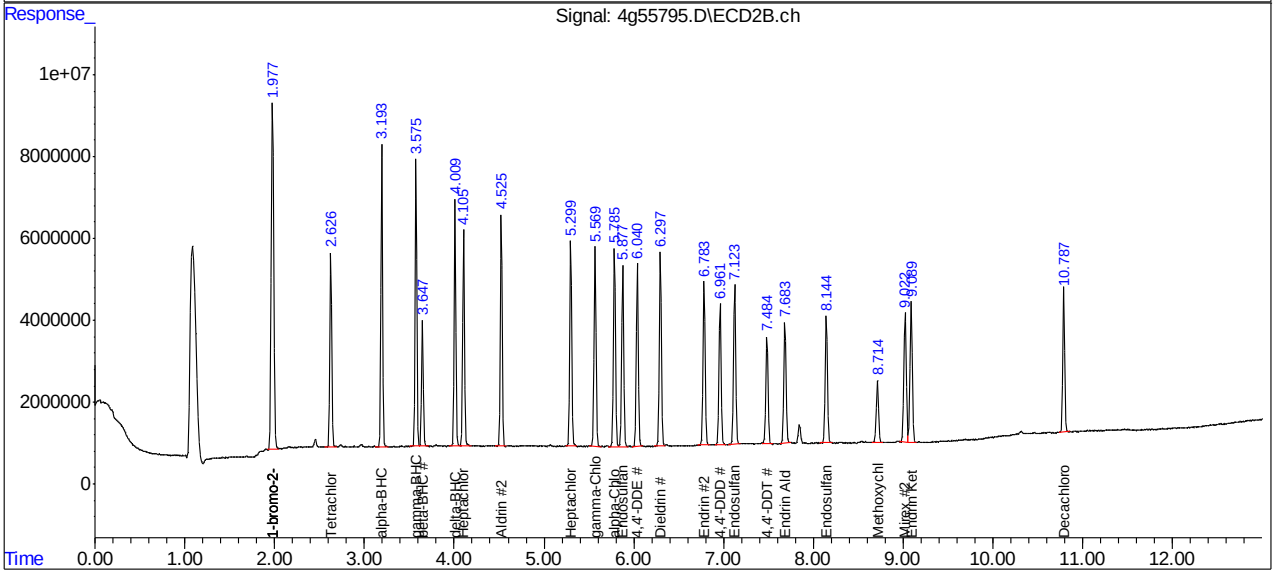
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1462\
Data File : 4g55795.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2015 1:14 pm
Operator : yvelandd
Sample : icc1462-25
Misc : op83565,g4g1462,15.2,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 09:12:07 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 07 09:09:28 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/07/15 15:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1462\
Data File : 4g55799.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2015 2:12 pm
Operator : yvelandd
Sample : ic1462-500
Misc : op83565,g4g1462,15.2,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 09:29:43 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 07 09:29:18 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.782	1.979	123.4E6	169.7E6	50.000	50.000
25) I	1-bromo-2...	1.782	1.979	123.4E6	169.7E6	50.000	50.000
31) I	1-bromo-2...	1.782	1.979	123.4E6	169.7E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
32)	Chlordane...	3.206	3.923	35830719	52227744	395.433	367.719
33)	Chlordane...	3.712	4.703	49435723	66932000	405.254	351.923
34)	Chlordane...	4.385	5.569	158.3E6	217.5E6	399.936	354.092
35)	Chlordane...	4.538	5.785	246.4E6	349.1E6	400.914	346.370m
36)	Chlordane...	5.537	7.201	35756908	47403391	361.858	308.656
	SemiQuant Compounds - Not Calibrated on this Instrument						

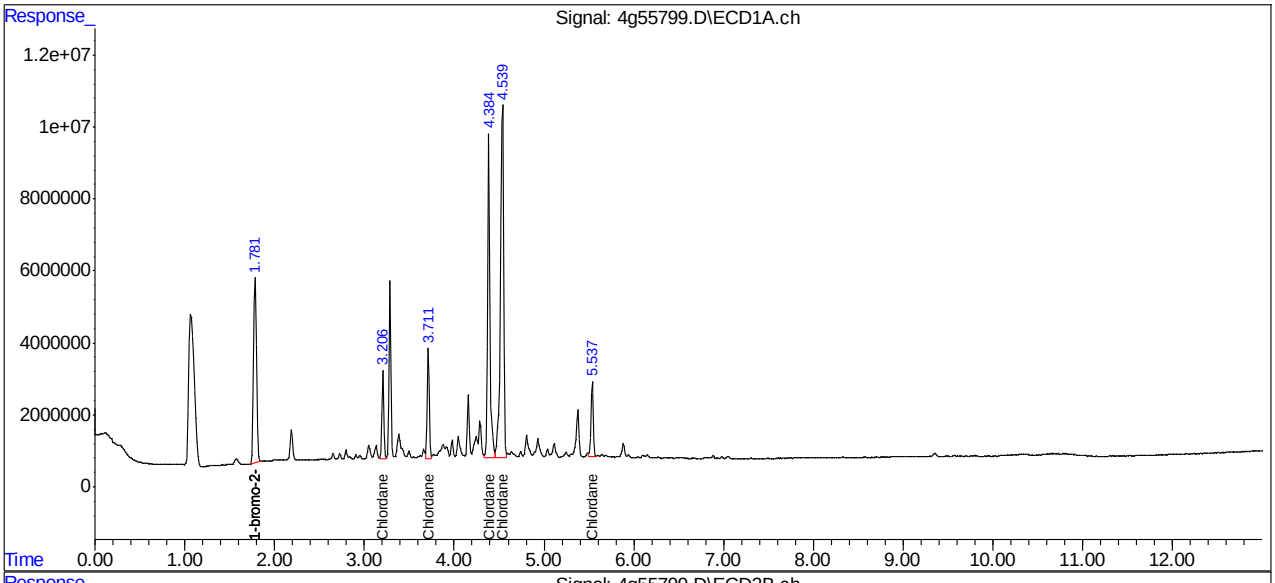
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

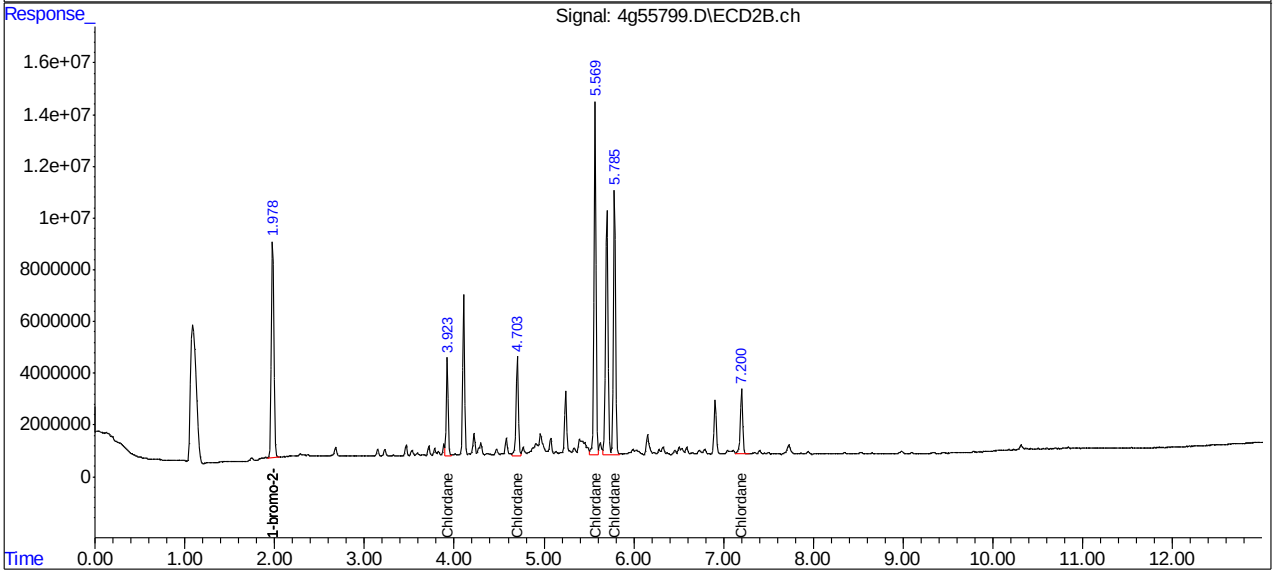
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1462\
Data File : 4g55799.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2015 2:12 pm
Operator : yvelandd
Sample : ic1462-500
Misc : op83565,g4g1462,15.2,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 09:29:43 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 07 09:29:18 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/07/15 15:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1462\
Data File : 4g55800.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2015 2:27 pm
Operator : yvelandd
Sample : ic1462-500
Misc : op83565,g4g1462,15.2,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 09:35:17 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 07 09:34:38 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.784	1.979	126.3E6	174.5E6	50.000	50.000
25) I	1-bromo-2...	1.784	1.979	126.3E6	174.5E6	50.000	50.000
31) I	1-bromo-2...	1.784	1.979	126.3E6	174.5E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
26) L8	Toxaphene{A}	5.023	6.264	22159717	40094704	543.876	480.258m
27) L8	Toxaphene{B}	5.612	7.095	61576522	46924756	480.674	382.677
28) L8	Toxaphene{C}	5.780	7.253	44928308	80729503	534.255	360.273 #
29) L8	Toxaphene{D}	6.110	7.683	32495953	46746361	450.240	374.494
30) L8	Toxaphene{E}	6.734	8.568	36889404	38109697	447.141	335.818
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

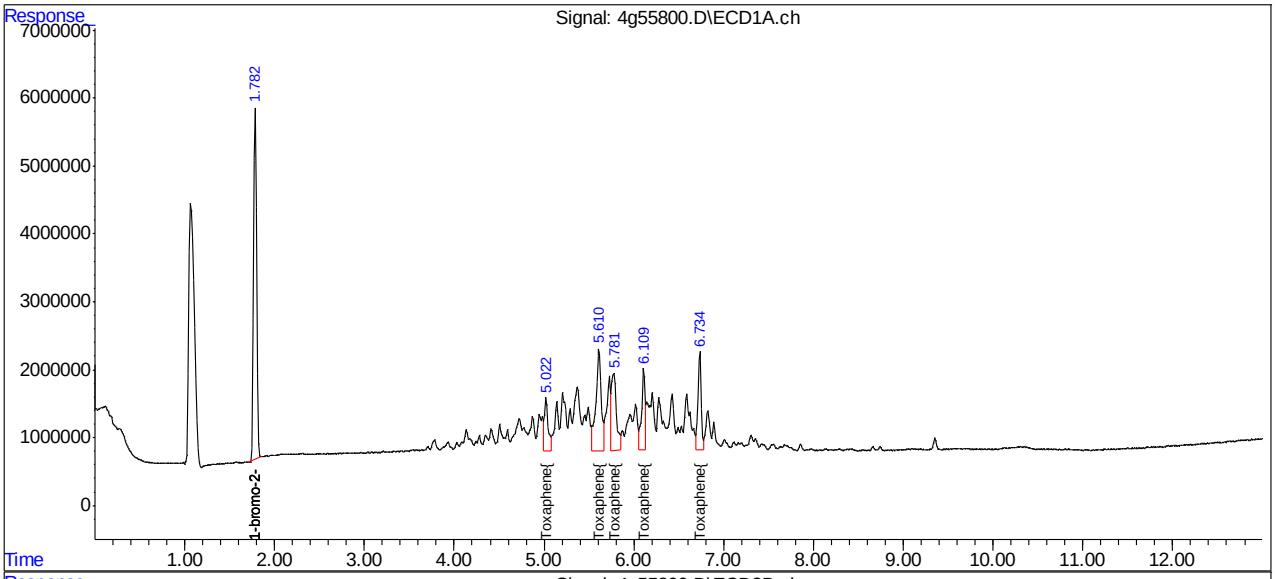
11.3.6
11

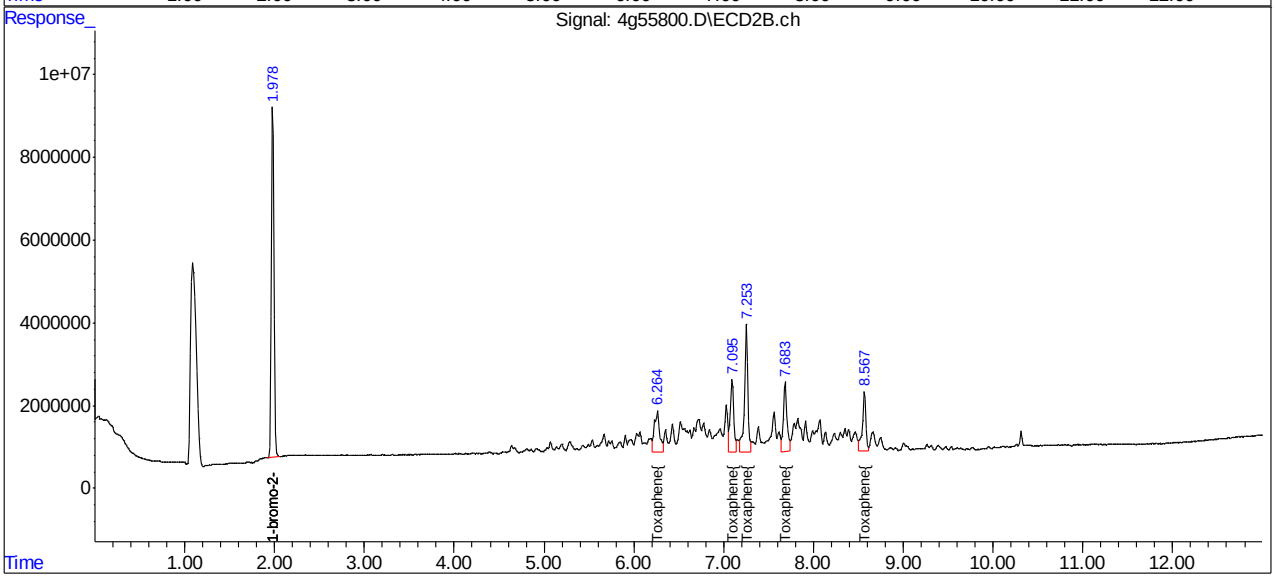
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1462\
Data File : 4g55800.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 May 2015 2:27 pm
Operator : yvelandd
Sample : ic1462-500
Misc : op83565,g4g1462,15.2,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 09:35:17 2015
Quant Method : C:\MSDCHEM\1\METHODS\4PST1462.M
Quant Title : PEST/PCB
QLast Update : Thu May 07 09:34:38 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/04/15 17:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\675\
Data File : 6g22463.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 May 2015 5:36 pm
Operator : yvelandd
Sample : icc675-25
Misc : op83370,g6g675,100,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 09:56:42 2015
Quant Method : C:\MSDCHEM\1\METHODS\6PST672.M
Quant Title : PEST/PCB
QLast Update : Mon May 04 09:12:19 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.364	1.467	188.0E6	217.8E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.051	2.358	73797442	84765137	20.279	22.781
Spiked Amount		40.000	Range	30 - 150	Recovery	= 50.70%	56.95%
24) SAB	Decachlor...	10.181	11.617	62996272	60930280	25.512	17.590 #
Spiked Amount		40.000			Recovery	= 63.78%	43.97%
	Target Compounds						
3) A	alpha-BHC	2.595	3.038	104.8E6	123.4E6	24.003	24.605
4) MA	gamma-BHC	2.926	3.473	99811548	115.1E6	24.085	24.449
5) MA	Heptachlor	3.450	4.055	87202811	102.2E6	25.358	24.804
6) B	beta-BHC	3.021	3.566	44487962	49815992	23.209	22.911
7) B	delta-BHC	3.225	3.959	95013944	113.1E6	25.447	26.702
8) MB	Aldrin	3.812	4.514	87299714	97659306	23.910	23.811
9) B	Heptachlo...	4.600	5.372	85210684	93005606	24.303	24.001
10) B	gamma-Chl...	4.773	5.669	83974643	91562059	25.251	22.849
11) B	alpha-Chl...	4.961	5.908	83104025	90656935	24.504	21.912
12) A	Endosulfan I	5.160	6.006	83104116	86910803	24.993	22.612
13) B	4,4'-DDE	5.084	6.189	75579953	90616934	24.365	23.593
14) MA	Dieldrin	5.517	6.466	86385962	95251076	24.641	23.876m
15) MA	Endrin	5.876	6.996	83296784	88380800	25.800	23.932
16) A	4,4'-DDD	6.016	7.207	72595184	76542023	27.091	23.641
17) B	Endosulfa...	6.240	7.377	78043360	82586432	25.400	23.560
18) MA	4,4'-DDT	6.467	7.779	48119754	64581324	32.128	27.938
19) B	Endrin Al...	6.943	8.001	65468213	66879002	25.916	24.026
20) B	Endosulfa...	7.704	8.524	73473271	74065696	27.347	24.641
21) A	Methoxychlor	7.344	9.121	29908414	35543529	32.109	25.383
22)	Mirex	7.484	9.435	71343128	65331868	26.509	21.891
23) B	Endrin Ke...	8.202	9.545	87848167	90149736	28.862	26.168

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

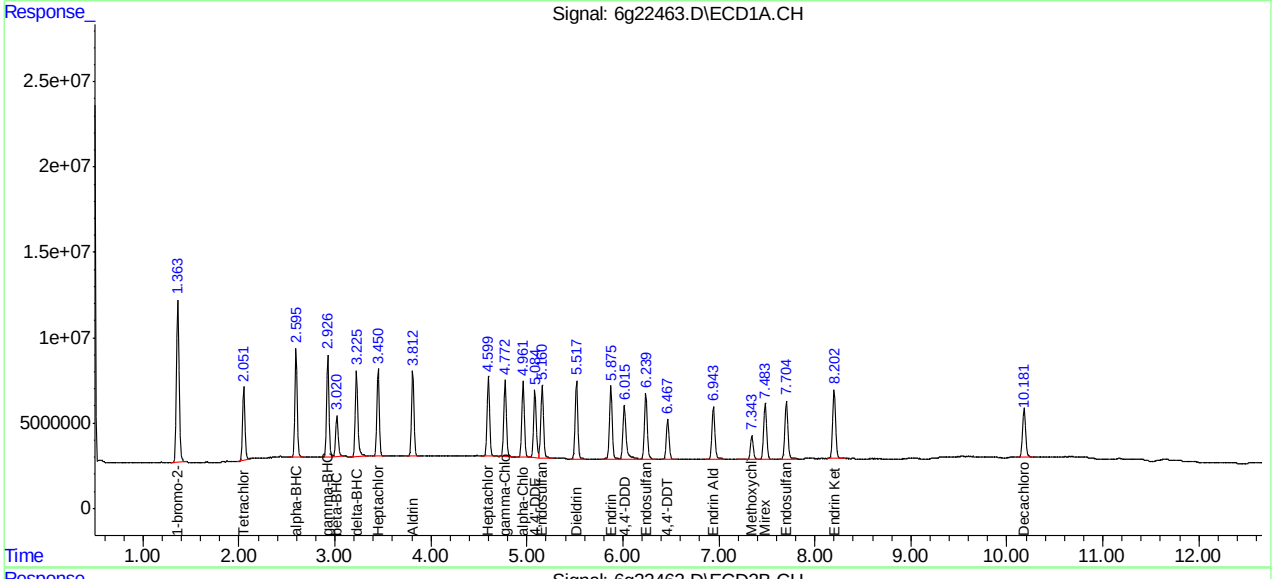
11.3.7 11

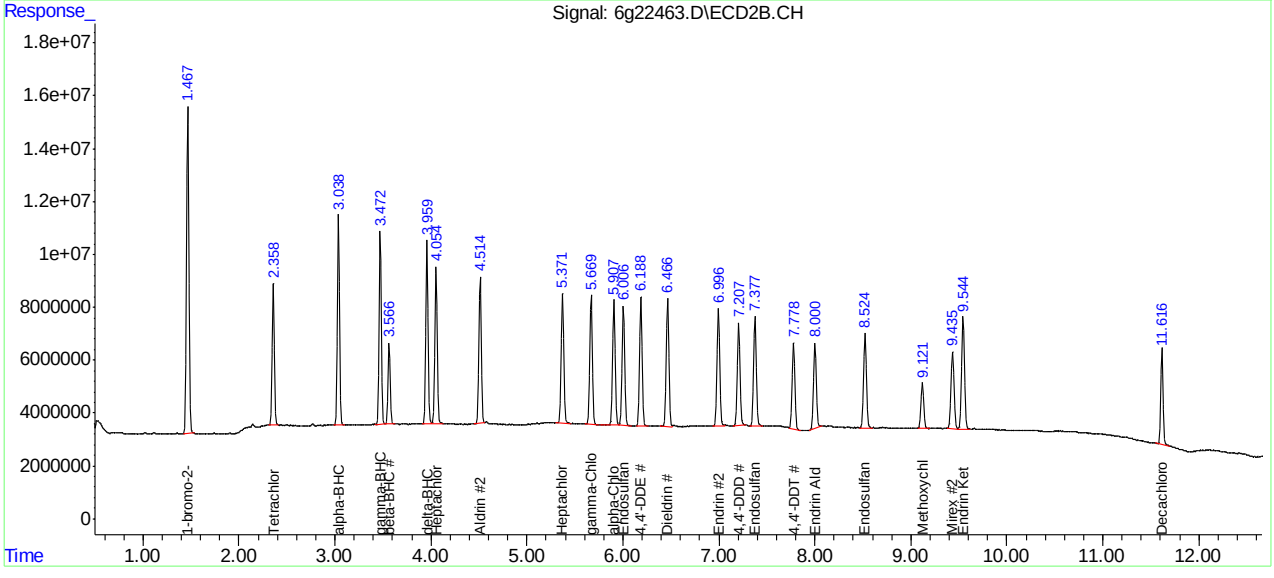
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\675\
Data File : 6g22463.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 May 2015 5:36 pm
Operator : yvelandd
Sample : icc675-25
Misc : op83370,g6g675,100,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 09:56:42 2015
Quant Method : C:\MSDCHEM\1\METHODS\6PST672.M
Quant Title : PEST/PCB
QLast Update : Mon May 04 09:12:19 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/04/15 17:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\675\
Data File : 6g22467.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 May 2015 6:43 pm
Operator : yvelandd
Sample : ic675-500
Misc : op83370,g6g675,100,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 09:52:16 2015
Quant Method : C:\MSDCHEM\1\METHODS\6PST672.M
Quant Title : PEST/PCB
QLast Update : Mon May 04 09:36:09 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
25) I	1-bromo-2...	1.363	1.466	193.9E6	216.5E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
26) L8	Toxaphene{A}	5.530	6.435	37126571	47152747	525.463	553.883
27) L8	Toxaphene{B}	6.225	7.350	58456618	62331936	541.083	564.426
28) L8	Toxaphene{C}	6.421	7.529	55234413	92543181	553.814	552.302
29) L8	Toxaphene{D}	6.794	8.010	54900725	58944177	553.096	549.976
30) L8	Toxaphene{E}	7.521	8.974	48674527	50777951	579.807	583.678
	SemiQuant Compounds - Not Calibrated on this Instrument						

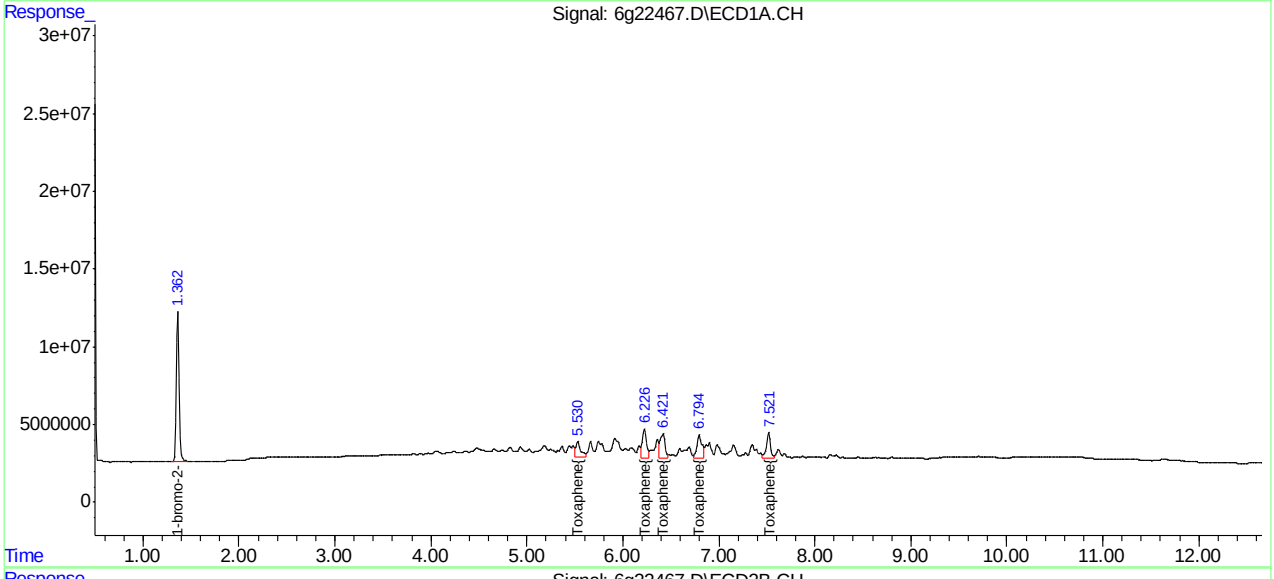
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

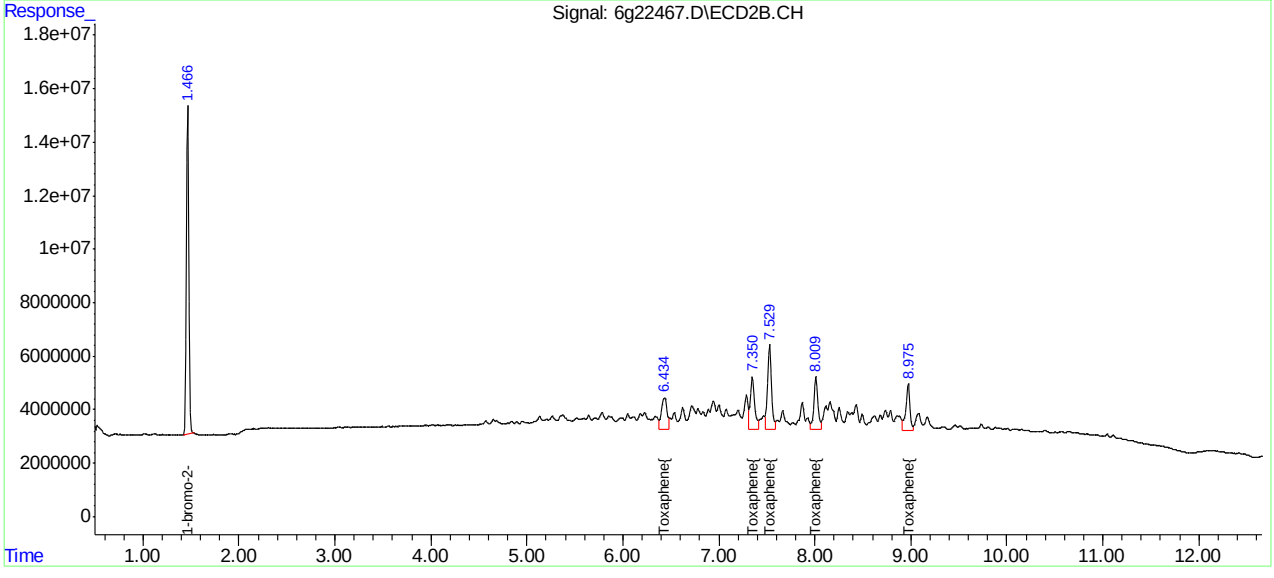
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\675\
Data File : 6g22467.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 May 2015 6:43 pm
Operator : yvelandd
Sample : ic675-500
Misc : op83370,g6g675,100,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 09:52:16 2015
Quant Method : C:\MSDCHEM\1\METHODS\6PST672.M
Quant Title : PEST/PCB
QLast Update : Mon May 04 09:36:09 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations
APPROVED
(compounds with "m" flag)
Gwendolyn Burns
05/04/15 17:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\675\
Data File : 6g22468.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 May 2015 7:00 pm
Operator : yvelandd
Sample : ic675-500
Misc : op83370,g6g675,100,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 09:52:06 2015
Quant Method : C:\MSDCHEM\1\METHODS\6PST672.M
Quant Title : PEST/PCB
QLast Update : Mon May 04 09:49:27 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
31) I	1-bromo-2...	1.363	1.466	189.8E6	217.1E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
32)	Chlordane...	3.359	3.860	73614648	66766468	548.330	443.769
33)	Chlordane...	3.981	4.723	93090496	77596090	525.083	438.230
34)	Chlordane...	4.774	5.670	247.4E6	238.9E6	488.151	406.604
35)	Chlordane...	4.953	5.908	367.9E6	395.7E6	486.784	420.410m
36)	Chlordane...	6.126	7.456	55580453	70412489	512.927	493.354
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

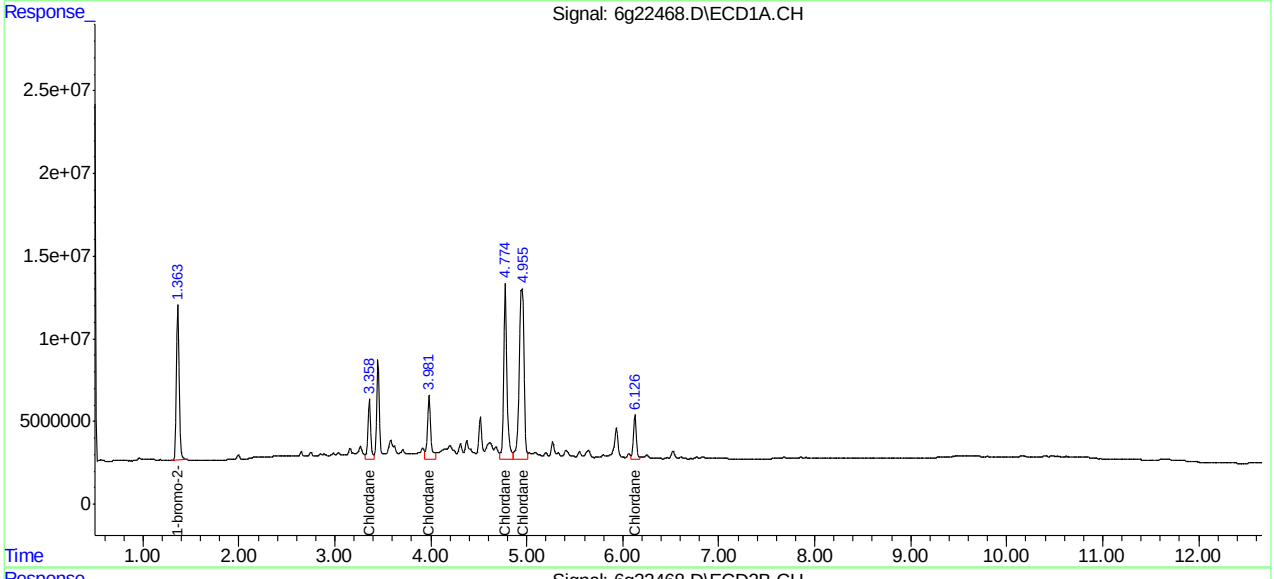
11.3.9
11

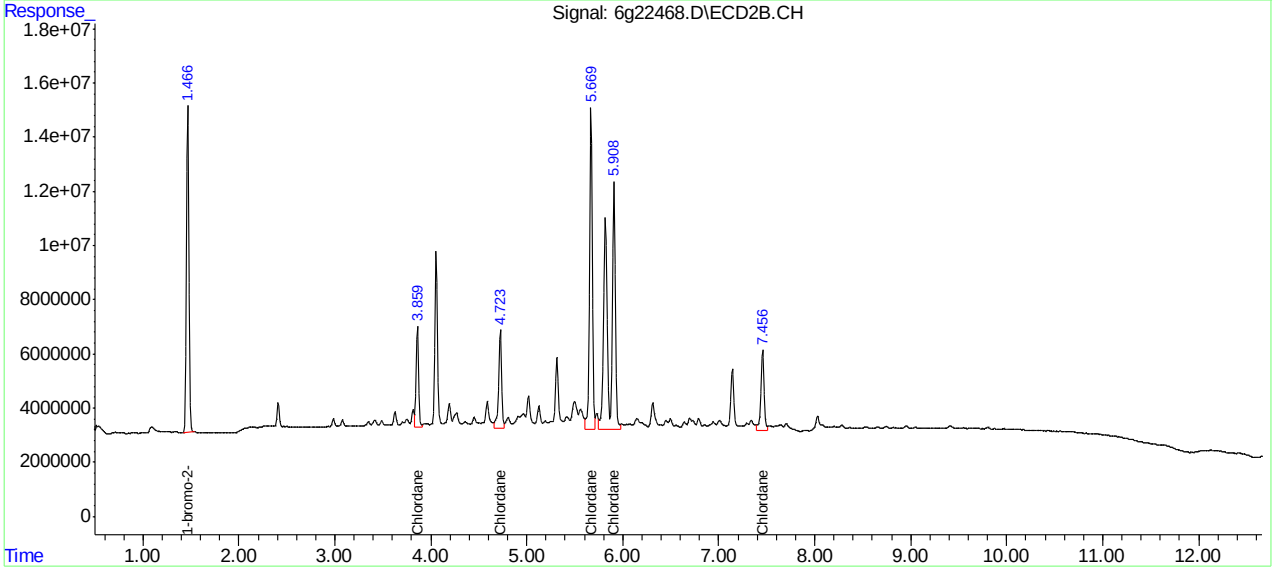
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\675\
Data File : 6g22468.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 May 2015 7:00 pm
Operator : yvelandd
Sample : ic675-500
Misc : op83370,g6g675,100,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 04 09:52:06 2015
Quant Method : C:\MSDCHEM\1\METHODS\6PST672.M
Quant Title : PEST/PCB
QLast Update : Mon May 04 09:49:27 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
04/23/15 12:03

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3335\
Data File : 2g112772.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Apr 2015 11:17 am
Operator : dylang
Sample : icc3335-1000
Misc : op83272,G2G3335,16.2,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 22 12:06:23 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Tue Apr 14 11:46:49 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.117	3.709	1136.7E6	618.6E6	49.683	43.643
	Spiked Amount 40.000			Recovery	=	124.21%	109.11%
51) S	Decachlor...	10.607	12.219	1063.3E6	453.9E6	42.080	39.773
	Spiked Amount 40.000			Recovery	=	105.20%	99.43%
	Target Compounds						
31)	AR1016-A	3.522	4.362	577.2E6	269.7E6	1154.371	1059.345
32)	AR1016-B	3.953	4.925	1022.5E6	546.7E6	1139.541	1043.051
33)	AR1016-C	4.542	5.576	2472.9E6	1241.5E6	1131.376	1022.686
34)	AR1016-D	4.715	5.767	911.7E6	492.1E6	1152.109	1056.667
35)	AR1016-E	5.251	6.433	946.8E6	366.6E6	1109.793	1056.108
36)	AR1260-A	7.307	8.552	2065.1E6	881.0E6	1121.874	1063.122
37)	AR1260-B	7.857	9.203	1301.2E6	637.4E6	1176.060	1061.212
38)	AR1260-C	8.205	9.635	1358.9E6	705.0E6	1158.878	1034.853
39)	AR1260-D	8.649	9.996	3582.6E6	1503.3E6	1178.253	1031.509
40)	AR1260-E	9.054	10.538	2091.3E6	932.7E6	1105.681m	991.892

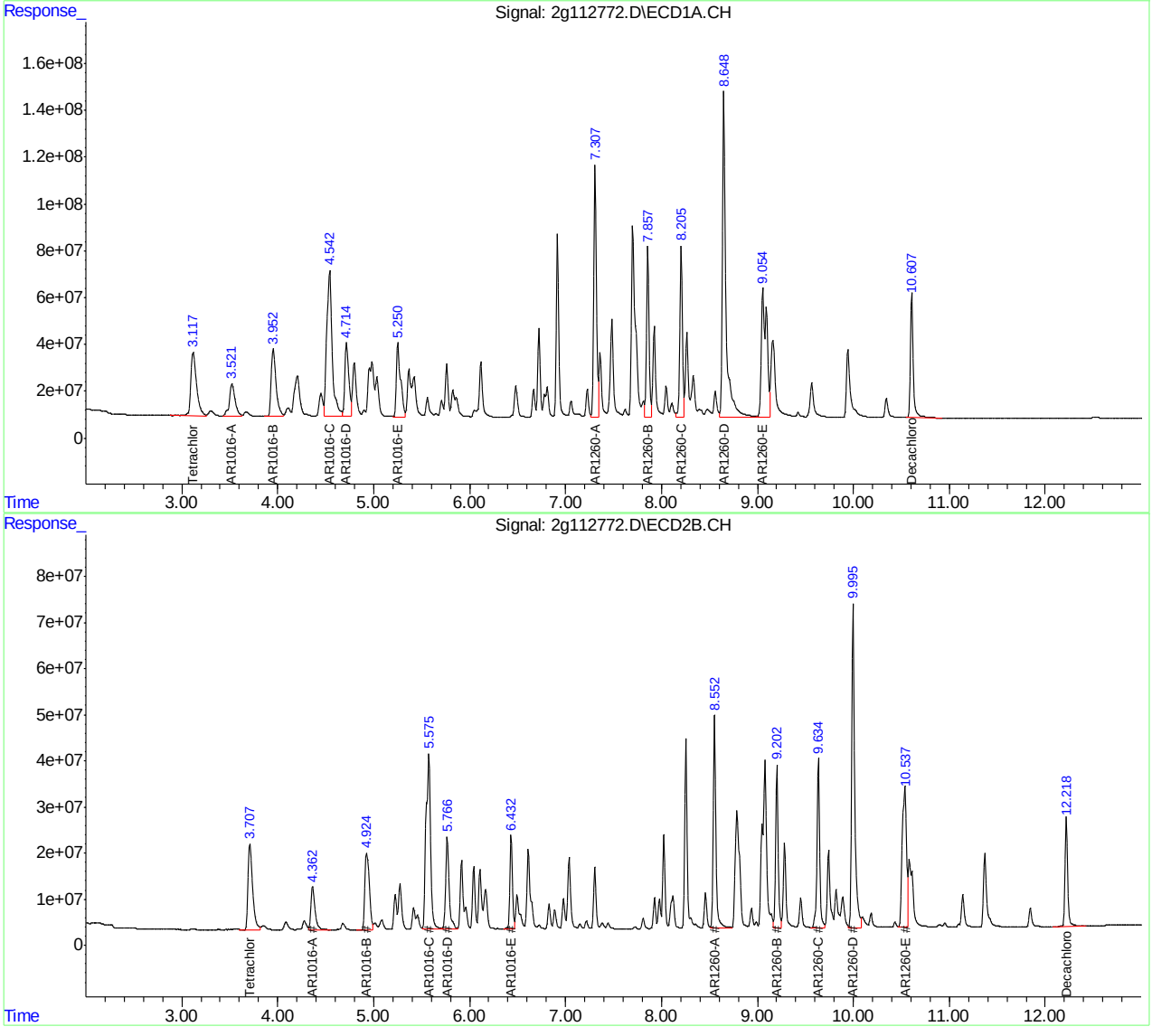
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3335\
Data File : 2g112772.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Apr 2015 11:17 am
Operator : dylang
Sample : icc3335-1000
Misc : op83272,G2G3335,16.2,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 22 12:06:23 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Tue Apr 14 11:46:49 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)



Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
04/23/15 12:03

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3335\
Data File : 2g112775.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Apr 2015 12:25 pm
Operator : dylang
Sample : ic3335-1000
Misc : op83272,G2G3335,16.2,,,10,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 22 15:07:08 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 14:55:45 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.115	3.707	1178.2E6	622.6E6	43.395	40.634
	Spiked Amount 40.000			Recovery	=	108.49%	101.58%
51) S	Decachlor...	10.608	12.219	1040.3E6	450.3E6	39.411	39.843
	Spiked Amount 40.000			Recovery	=	98.53%	99.61%
	Target Compounds						
2)	AR1221-A	2.557	3.112	148.9E6	102.5E6	983.872	1051.204
3)	AR1221-B	3.299	4.083	283.6E6	160.7E6	1081.970	1080.726
4)	AR1221-C	3.520	4.362	891.2E6	392.8E6	1067.619	1039.552
5)	AR1221-D	3.953	4.917	79644251	75519993	1181.986	1103.057
6)	AR1221-E	4.113	5.012	97778514	53969339	1137.283	946.762m
24)	AR1254-A	5.760	7.035	972.7E6	623.1E6	1088.357	1044.474
25)	AR1254-B	6.115	7.304	1405.0E6	667.0E6	771.784	1035.554 #
26)	AR1254-C	6.495	7.808	1077.8E6	533.0E6	1078.573	1035.332
27)	AR1254-D	6.665	7.978	1869.1E6	961.7E6	946.361	912.310
28)	AR1254-E	7.056	8.306	1605.2E6	730.9E6	1065.164	1016.146
29)	AR1254-F	7.308	8.774f	1386.8E6	784.7E6	1096.552	1000.152m
30)	AR1254-G	7.700	9.079	1963.7E6	980.9E6	1078.937	1023.306

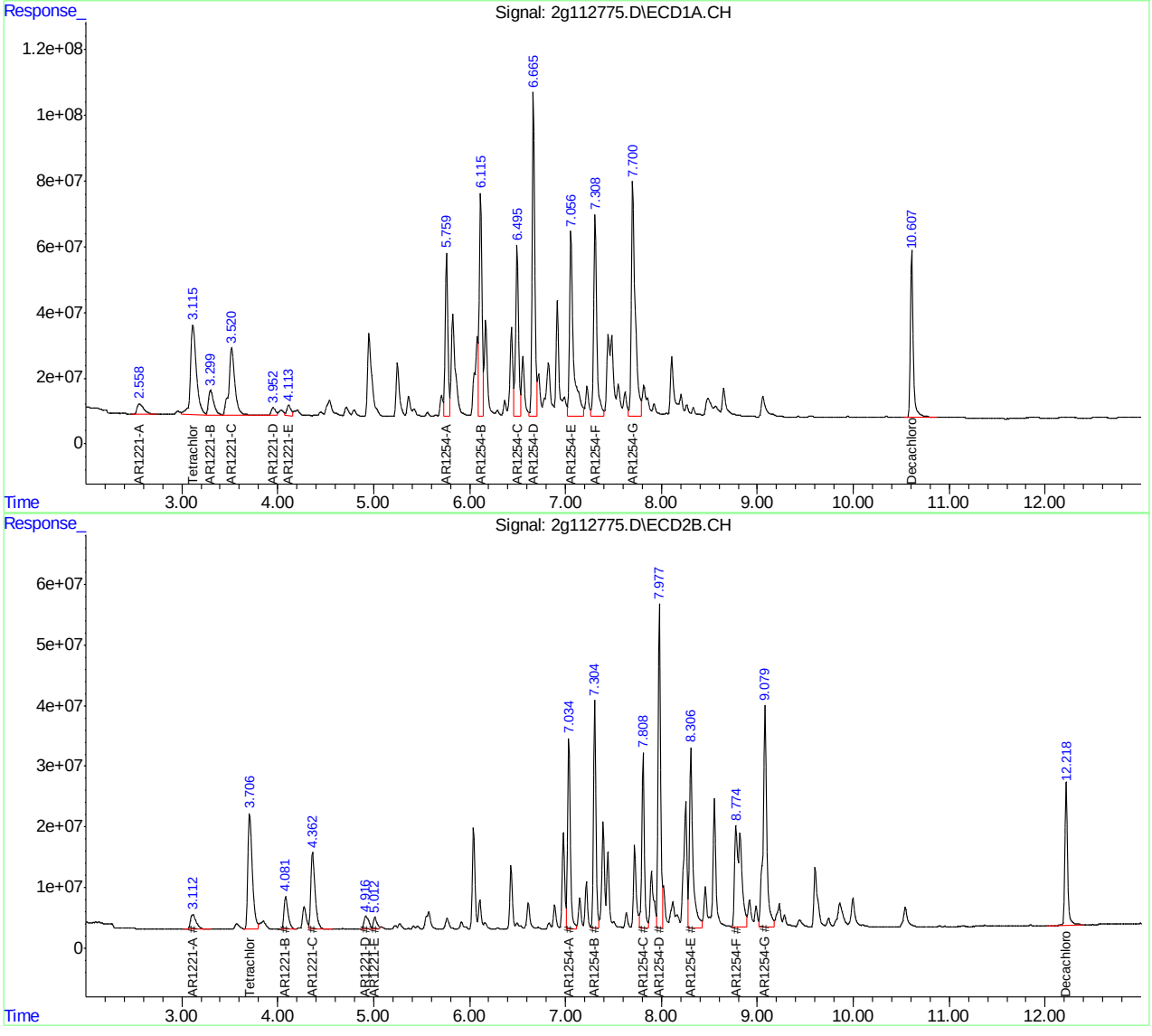
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3335\
Data File : 2g112775.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Apr 2015 12:25 pm
Operator : dylang
Sample : ic3335-1000
Misc : op83272,G2G3335,16.2,,,10,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 22 15:07:08 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 14:55:45 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)



Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
04/23/15 12:03

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3335\
Data File : 2g112776.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Apr 2015 12:42 pm
Operator : dylang
Sample : ic3335-1000
Misc : op83272,G2G3335,16.2,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 22 15:09:41 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:07:25 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.117	3.708	1131.9E6	606.0E6	41.427	39.509
Spiked Amount 40.000			Recovery	=	103.57%	98.77%
51) S Decachlor...	10.608	12.219	1038.4E6	440.2E6	39.484	38.999
Spiked Amount 40.000			Recovery	=	98.71%	97.50%
Target Compounds						
7) AR1232-A	3.521	4.362	718.5E6	327.7E6	1133.285	1047.242
8) AR1232-B	3.953	4.923	497.3E6	267.9E6	1097.687	1063.358
9) AR1232-C	4.540	5.576	1102.3E6	555.6E6	1090.459	1032.831
10) AR1232-D	4.714	5.767	409.6E6	226.1E6	1107.851	1063.554
11) AR1232-E	5.250	6.433	391.1E6	153.2E6	1101.261	1059.188
41) AR1262-A	7.306	8.552	1388.5E6	673.6E6	1081.331	1030.321
42) AR1262-B	7.857	9.202	1843.3E6	905.9E6	1094.912	1023.602
43) AR1262-C	8.204	9.635	1678.0E6	846.9E6	1102.057	1014.919
44) AR1262-D	8.648	9.996	4105.3E6	1745.2E6	1086.218	1030.264
45) AR1262-E	9.095	10.516	2394.9E6	1068.1E6	1072.859m	975.773

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

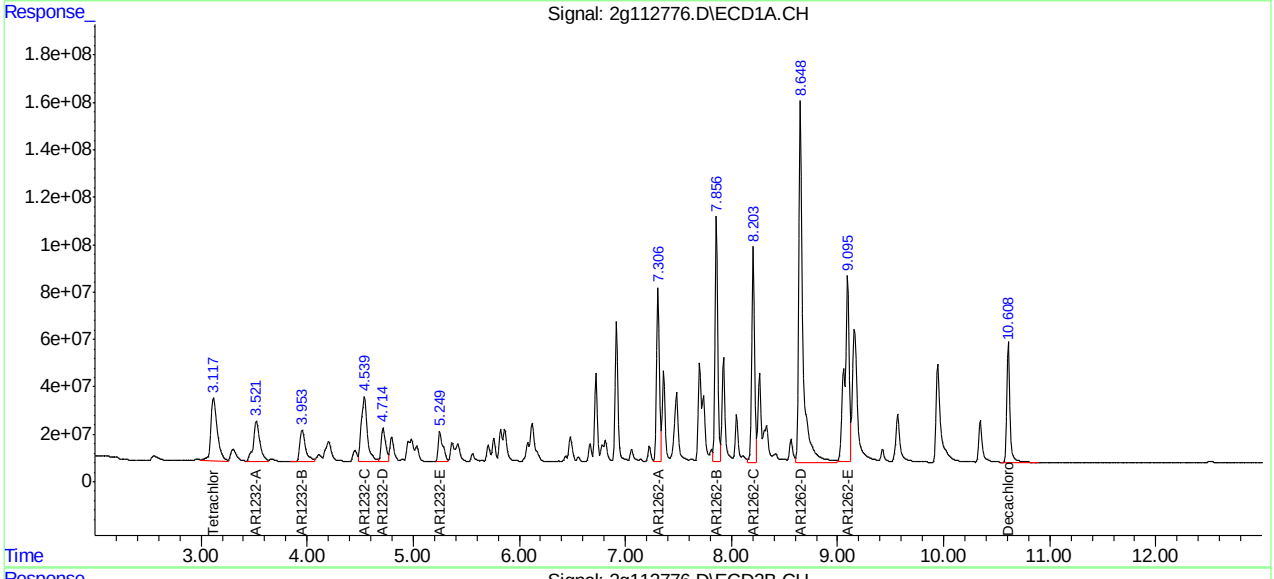
11.3.12 11

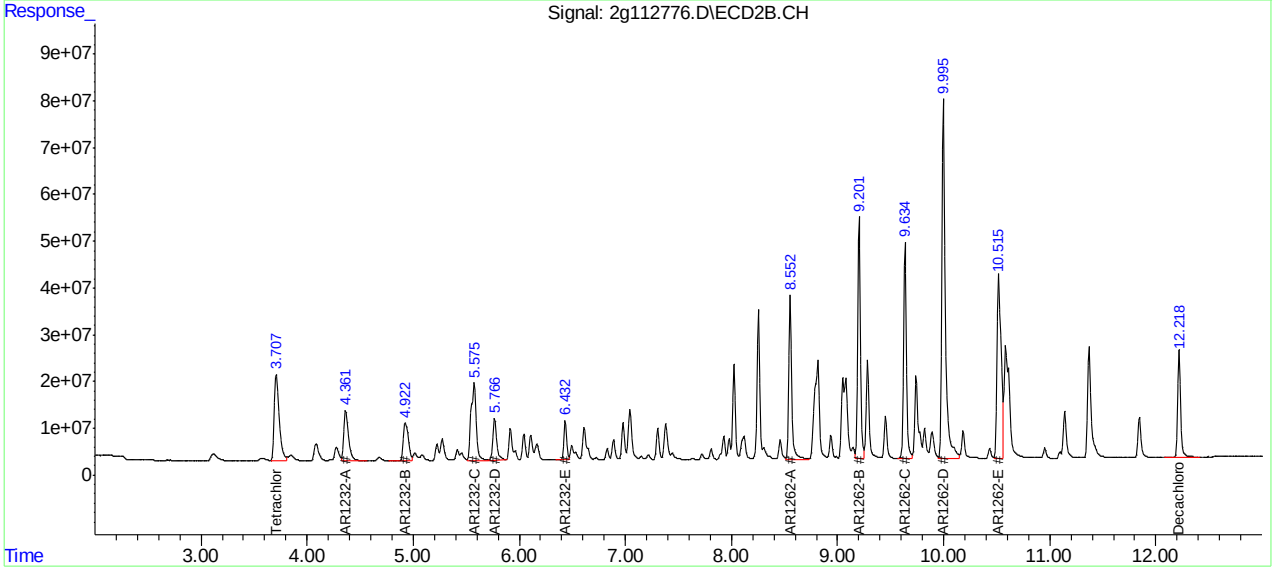
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3335\
Data File : 2g112776.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Apr 2015 12:42 pm
Operator : dylang
Sample : ic3335-1000
Misc : op83272,G2G3335,16.2,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 22 15:09:41 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:07:25 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3335\
Data File : 2g112777.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Apr 2015 12:58 pm
Operator : dylang
Sample : ic3335-1000
Misc : op83272,G2G3335,16.2,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 22 15:11:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:09:53 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.116	3.708	1072.3E6	592.8E6	39.526	38.821
	Spiked Amount 40.000			Recovery	=	98.82%	97.05%
51) S	Decachlor...	10.607	12.219	3289.0E6	1341.4E6	125.095	119.291
	Spiked Amount 40.000			Recovery	=	312.74%	298.23%
	Target Compounds						
12)	AR1242-A	3.952	4.923	861.8E6	466.1E6	1109.406	1071.943
13)	AR1242-B	4.540	5.575	2049.2E6	1035.9E6	1104.939	1060.126
14)	AR1242-C	4.714	5.766	755.7E6	412.5E6	1117.959	1077.249
15)	AR1242-D	5.250	5.915	800.0E6	237.8E6	1116.042	1062.928
16)	AR1242-E	5.862	7.047	721.7E6	390.5E6	1098.485	1066.220
46)	AR1268-A	9.095	10.515	4013.8E6	1908.4E6	1124.430	1019.958
47)	AR1268-B	9.152	10.585	4648.6E6	2016.9E6	1090.344	1033.318
48)	AR1268-C	9.422	10.953	3542.0E6	1553.5E6	1124.628	1026.476
49)	AR1268-D	9.941	11.369	1439.2E6	635.3E6	1095.327	1013.367
50)	AR1268-E	10.342	11.843	11369.9E6	4819.8E6	1090.230	1013.669

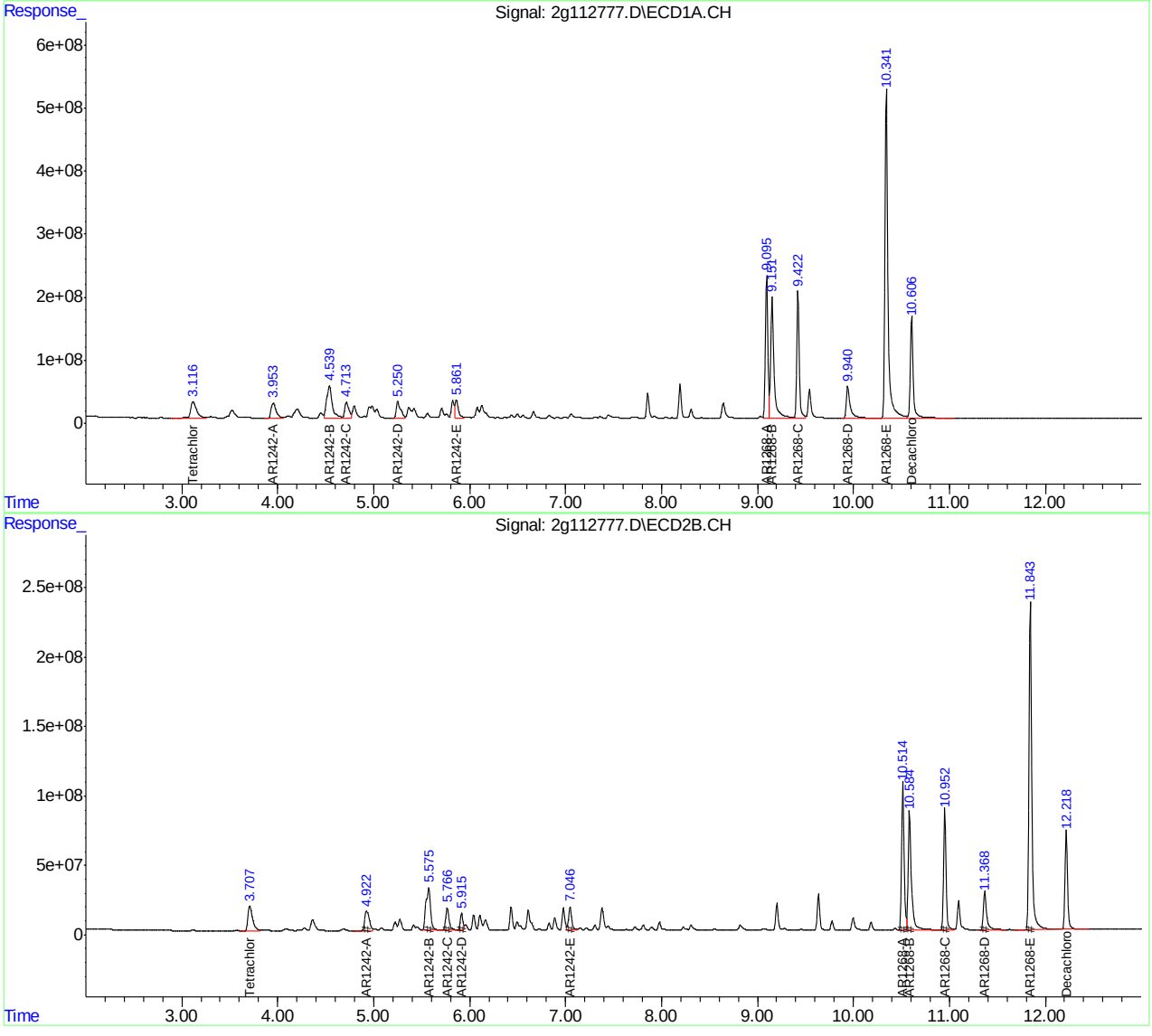
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3335\
Data File : 2g112777.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Apr 2015 12:58 pm
Operator : dylang
Sample : ic3335-1000
Misc : op83272,G2G3335,16.2,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 22 15:11:59 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:09:53 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)



Manual Integrations
APPROVED
(compounds with "m" flag)
Gwendolyn Burns
04/23/15 12:03

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3335\
Data File : 2g112778.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Apr 2015 1:16 pm
Operator : dylang
Sample : ic3335-1000
Misc : op83272,G2G3335,16.2,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 22 15:13:57 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:12:17 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.116	3.707	942.2E6	554.2E6	35.050	36.428
	Spiked Amount 40.000			Recovery	=	87.63%	91.07%
51) S	Decachlor...	10.609	12.221	921.0E6	395.7E6	25.821	26.382
	Spiked Amount 40.000			Recovery	=	64.55%	65.96%
	Target Compounds						
17)	AR1248-A	3.951	4.923	438.0E6	248.7E6	1121.391	1103.925
18)	AR1248-B	4.540	5.575	1174.8E6	656.9E6	963.233	1075.570
19)	AR1248-C	4.952	6.043	1220.1E6	372.4E6	1075.960m	1076.714
20)	AR1248-D	5.250	6.433	1203.1E6	489.7E6	1104.044	1070.719
21)	AR1248-E	5.366	6.612	636.0E6	541.5E6	1101.209	1077.327
22)	AR1248-F	5.862	7.046	1170.1E6	669.2E6	1087.340	1064.249
23)	AR1248-G	6.126	7.382	1242.7E6	582.7E6	1083.459m	1049.154

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

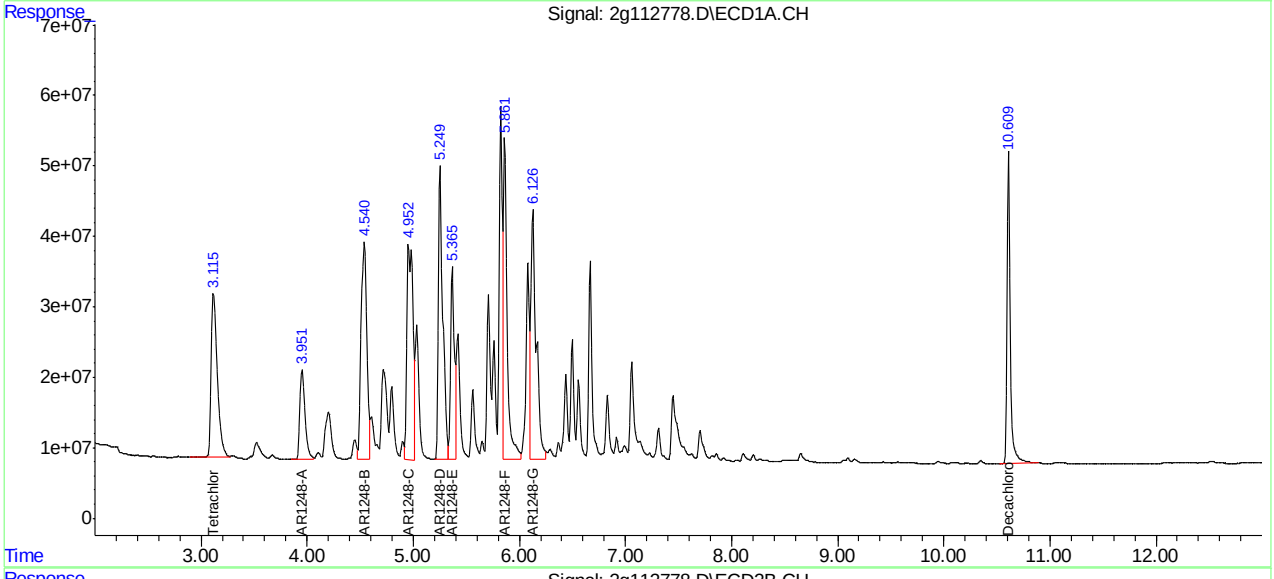
11.3.14
11

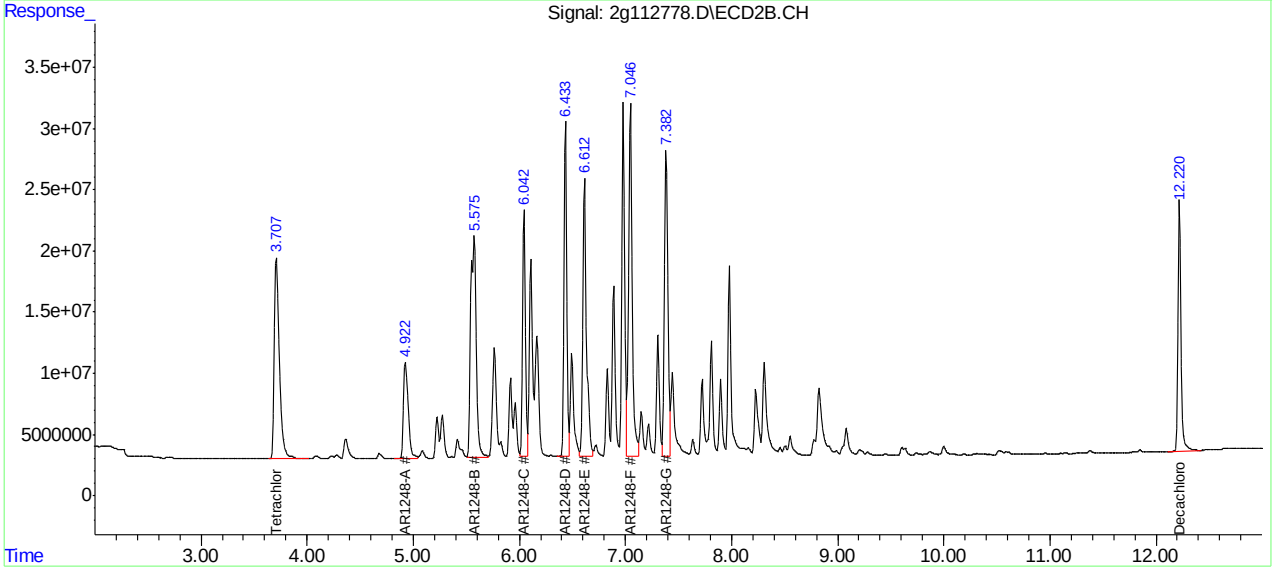
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G3335\
Data File : 2g112778.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Apr 2015 1:16 pm
Operator : dylang
Sample : ic3335-1000
Misc : op83272,G2G3335,16.2,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 22 15:13:57 2015
Quant Method : C:\MSDCHEM\1\METHODS\2PCB3335.M
Quant Title :
QLast Update : Wed Apr 22 15:12:17 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB5 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30m X 0.32mm(.25u Signal #2 Info : 30m X 0.32 mm (.25um)





ACCUTEST LABORATORIES JB94209

New Jersey

ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA36627
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:32	MA36627-STD1	1		STDA
11:38	MA36627-STD2	1		STDB
11:43	ZZZZZZ	1		
11:49	ZZZZZZ	1		
11:57	MA36627-ICV1	1		
12:10	MA36627-ICB1	1		
12:14	MA36627-ICCV1	1		
12:24	MA36627-CCB1	1		
12:29	MA36627-CRI1	1		
12:35	MA36627-CRID1	1		See rerun
12:41	MA36627-CRIA1	1		Not needed.
12:47	MA36627-ICSA1	1		
12:52	MA36627-ICSAB1	1		
12:58	ZZZZZZ	1		
13:04	ZZZZZZ	1		
13:10	ZZZZZZ	1		
13:15	MA36627-CCV1	1		
13:21	MA36627-CCB2	1		
13:27	MA36627-CRID2	1		
13:33	MP86344-MB1	1		To rerun low level Ag.
13:39	MP86344-B1	1		To rerun low level Ag.
13:44	ZZZZZZ	1		
13:50	ZZZZZZ	1		
13:56	MP86343-MB1	1		
14:02	MP86343-B1	1		
---------->	Last reportable sample/prep for job JB94209			
14:08	ZZZZZZ	1		
14:14	ZZZZZZ	1		
14:19	MA36627-CCV2	1		
14:25	MA36627-CCB3	1		
14:31	MA36627-CRID3	1		
14:37	MP86356-MB1	1		
14:43	MP86356-B1	1		
14:48	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA36627
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	14:54	MP86347-B1	1		
	15:00	MP86347-MB1	1		
	15:06	ZZZZZZ	1		
	15:11	MP86352-B1	1		
	15:17	ZZZZZZ	1		
	15:23	MA36627-CCV3	1		
	15:29	MA36627-CCB4	1		
---------->	Last reportable CCB for job JB94209				
	15:35	ZZZZZZ	1		
	15:40	ZZZZZZ	1		
	15:46	ZZZZZZ	1		
	15:52	MP86352-MB1	1		
	15:58	ZZZZZZ	1		
	16:03	ZZZZZZ	1		
	16:08	ZZZZZZ	2		
	16:23	MA36627-CRI2	1		
	16:27	ZZZZZZ	1		
	16:35	MA36627-CCV4	1		
	16:44	MA36627-CCB5	1		

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA36627
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
11:32	MA36627-STD1	5061 R	105060 R	7314 R	7554 R
11:38	MA36627-STD2	4425	92139	7027	6151
11:43	ZZZZZZ	4614	95722	7114	6446
11:49	ZZZZZZ	5017	103980	7281	7487
11:57	MA36627-ICV1	4644	95480	7036	6492
12:10	MA36627-ICB1	4996	103980	7078	7464
12:14	MA36627-ICCV1	4580	94831	6898	6401
12:24	MA36627-CCB1	5008	103730	7121	7470
12:29	MA36627-CRI1	4887	101940	7083	7236
12:35	MA36627-CRID1	No results reported for the elements associated with this internal standard.			
12:41	MA36627-CRIA1	No results reported for the elements associated with this internal standard.			
12:47	MA36627-ICSA1	4076	83775	6641	5567
12:52	MA36627-ICSAB1	3993	82489	6455	5489
12:58	ZZZZZZ	4896	101230	7141	7106
13:04	ZZZZZZ	4878	102920	7139	7388
13:10	ZZZZZZ	4992	103180	7130	7491
13:15	MA36627-CCV1	4556	93606	6816	6355
13:21	MA36627-CCB2	4951	101650	6969	7369
13:27	MA36627-CRID2	5009	102160	7042	7416
13:33	MP86344-MB1	4977	103330	7205	7588
13:39	MP86344-B1	4766	99520	7395	6808
13:44	ZZZZZZ	4337	87283	7036	5736
13:50	ZZZZZZ	4351	90014	7094	5866
13:56	MP86343-MB1	5079	105920	7260	7490
14:02	MP86343-B1	4849	99644	7273	6766
14:08	ZZZZZZ	4448	92363	7035	6192
14:14	ZZZZZZ	4607	94995	7020	6443
14:19	MA36627-CCV2	4604	94853	6950	6401
14:25	MA36627-CCB3	5010	103000	7167	7433
14:31	MA36627-CRID3	5054	105220	7241	7468
14:37	MP86356-MB1	5196	107060	7422	7689
14:43	MP86356-B1	4861	100710	7262	6774
14:48	ZZZZZZ	4908	101700	7405	6797

INTERNAL STANDARD SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA36627
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
14:54	MP86347-B1	4789	99075	7151	6720
15:00	MP86347-MB1	4996	103480	7133	7414
15:06	ZZZZZZ	5082	105520	7288	7581
15:11	MP86352-B1	4781	98486	7161	6708
15:17	ZZZZZZ	4073	87041	6873	5580
15:23	MA36627-CCV3	4649	96629	7018	6477
15:29	MA36627-CCB4	5026	103720	7221	7486
15:35	ZZZZZZ	4183	88264	7112	5578
15:40	ZZZZZZ	4288	88990	6975	5756
15:46	ZZZZZZ	4354	90567	6928	5838
15:52	MP86352-MB1	5159	107340	7437	7643
15:58	ZZZZZZ	5016	102740	7151	7406
16:03	ZZZZZZ	5034	105400	7250	7440
16:08	ZZZZZZ	4597	94191	7161	6321
16:23	MA36627-CRI2	4943	101510	7060	7275
16:27	ZZZZZZ	5089	104430	7166	7569
16:35	MA36627-CCV4	4610	94251	6917	6406
16:44	MA36627-CCB5	5003	102430	7205	7416

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	70-130 %
Istd#2	Yttrium (3600)	70-130 %
Istd#3	Yttrium (3710)	70-130 %
Istd#4	Indium	70-130 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA36627 Units: ug/l

Time:			12:10		12:24		13:21		14:25	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	22	-1.3	<200	-9.4	<200	-1.7	<200	-5.7	<200
Antimony	6.0	1.7	-0.50	<6.0	0.90	<6.0	1.2	<6.0	0.20	<6.0
Arsenic	3.0	1.2	1.1	<3.0	0.0	<3.0	-0.10	<3.0	0.0	<3.0
Barium	200	.4	-0.50	<200	0.10	<200	0.10	<200	0.0	<200
Beryllium	1.0	.3	-0.10	<1.0	0.20	<1.0	0.20	<1.0	0.10	<1.0
Bismuth	20	3.2								
Boron	100	1.6	anr							
Cadmium	3.0	.3	0.0	<3.0	0.10	<3.0	0.20	<3.0	0.10	<3.0
Calcium	5000	29	-6.1	<5000	-9.1	<5000	-12	<5000	-5.9	<5000
Chromium	10	.9	0.80	<10	0.40	<10	0.40	<10	0.20	<10
Cobalt	50	.3	0.20	<50	0.50	<50	0.20	<50	0.10	<50
Copper	10	1.8	0.50	<10	0.10	<10	-0.20	<10	0.0	<10
Iron	100	9.4	4.3	<100	7.7	<100	-4.4	<100	-7.1	<100
Lead	3.0	1.6	-0.10	<3.0	0.20	<3.0	0.50	<3.0	0.50	<3.0
Lithium	20	3.5								
Magnesium	5000	47	22.3	<5000	17.0	<5000	-13	<5000	-65	<5000
Manganese	15	.5	0.10	<15	0.30	<15	0.10	<15	0.40	<15
Molybdenum	20	.8	anr							
Nickel	10	.4	-0.20	<10	-0.70	<10	-0.60	<10	-0.40	<10
Palladium	50	4.2								
Potassium	10000	71	55.9	<10000	58.8	<10000	-16	<10000	74.2	<10000
Selenium	10	2.4	-0.70	<10	-0.50	<10	-0.70	<10	0.50	<10
Silicon	200	5.1								
Silver	10	1.5	0.0	<10	0.10	<10	-0.70	<10	-0.20	<10
Sodium	10000	26	30.6	<10000	36.6	<10000	16.4	<10000	168	<10000
Sulfur	50	28								
Strontium	10	.4								
Thallium	2.0	1.3	-0.20	<2.0	-0.80	<2.0	0.0	<2.0	0.50	<2.0
Tin	10	.7								
Titanium	10	1	anr							
Tungsten	50	1.8								
Vanadium	50	.7	0.10	<50	0.40	<50	0.20	<50	0.20	<50
Zinc	20	1.4	0.0	<20	0.20	<20	0.30	<20	0.30	<20

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA36627 Units: ug/l

Time:			12:10		12:24		13:21		14:25	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zirconium	10	.7								

(*) Outside of QC limits
(anr) Analyte not requested

12.1.2
12

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA36627 Units: ug/l

Time:			15:29	
Sample ID:			CCB4	
Metal	RL	IDL	raw	final
Aluminum	200	22	-20	<200
Antimony	6.0	1.7	0.40	<6.0
Arsenic	3.0	1.2	-0.10	<3.0
Barium	200	.4	0.0	<200
Beryllium	1.0	.3	0.10	<1.0
Bismuth	20	3.2		
Boron	100	1.6	anr	
Cadmium	3.0	.3	-0.10	<3.0
Calcium	5000	29	-9.4	<5000
Chromium	10	.9	0.70	<10
Cobalt	50	.3	0.30	<50
Copper	10	1.8	0.40	<10
Iron	100	9.4	-11	<100
Lead	3.0	1.6	-0.10	<3.0
Lithium	20	3.5		
Magnesium	5000	47	3.3	<5000
Manganese	15	.5	0.30	<15
Molybdenum	20	.8	anr	
Nickel	10	.4	-0.30	<10
Palladium	50	4.2		
Potassium	10000	71	42.6	<10000
Selenium	10	2.4	-0.60	<10
Silicon	200	5.1		
Silver	10	1.5	0.20	<10
Sodium	10000	26	73.5	<10000
Sulfur	50	28		
Strontium	10	.4		
Thallium	2.0	1.3	-0.40	<2.0
Tin	10	.7		
Titanium	10	1	anr	
Tungsten	50	1.8		
Vanadium	50	.7	0.50	<50
Zinc	20	1.4	0.20	<20

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA36627 Units: ug/l

Time:			15:29	
Sample ID:			CCB4	
Metal	RL	IDL	raw	final
Zirconium	10	.7		

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA36627 Units: ug/l

Time:		12:14	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Aluminum	40000	40300	100.8
Antimony	2000	2050	102.5
Arsenic	2000	2000	100.0
Barium	2000	2000	100.0
Beryllium	2000	2010	100.5
Bismuth			
Boron	anr		
Cadmium	2000	2020	101.0
Calcium	40000	40600	101.5
Chromium	2000	2010	100.5
Cobalt	2000	2030	101.5
Copper	2000	1970	98.5
Iron	40000	40600	101.5
Lead	2000	2030	101.5
Lithium			
Magnesium	40000	40700	101.8
Manganese	2000	2020	101.0
Molybdenum	anr		
Nickel	2000	2030	101.5
Palladium			
Potassium	40000	40000	100.0
Selenium	2000	2010	100.5
Silicon			
Silver	250	250	100.0
Sodium	40000	40400	101.0
Sulfur			
Strontium			
Thallium	2000	2100	105.0
Tin			
Titanium	anr		
Tungsten			
Vanadium	2000	1980	99.0
Zinc	2000	2020	101.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA36627 Units: ug/l

Time:		12:14	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Zirconium			

(*) Outside of QC limits
(anr) Analyte not requested

12.1.3
12

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA36627 Units: ug/l

Time:		11:57			13:15			14:19	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40500	101.3	40000	40200	100.5	40000	40000	100.0
Antimony	2000	2070	103.5	2000	2050	102.5	2000	2050	102.5
Arsenic	2000	2020	101.0	2000	2000	100.0	2000	2010	100.5
Barium	2000	2000	100.0	2000	2000	100.0	2000	2000	100.0
Beryllium	2000	2020	101.0	2000	2010	100.5	2000	1990	99.5
Bismuth									
Boron	anr								
Cadmium	2000	2020	101.0	2000	2020	101.0	2000	2010	100.5
Calcium	40000	40800	102.0	40000	40700	101.8	40000	40300	100.8
Chromium	2000	2030	101.5	2000	2030	101.5	2000	2010	100.5
Cobalt	2000	2020	101.0	2000	2030	101.5	2000	2030	101.5
Copper	2000	2000	100.0	2000	2000	100.0	2000	1990	99.5
Iron	40000	40900	102.3	40000	40500	101.3	40000	40300	100.8
Lead	2000	2020	101.0	2000	2030	101.5	2000	2030	101.5
Lithium									
Magnesium	40000	40900	102.3	40000	40700	101.8	40000	40400	101.0
Manganese	2000	2040	102.0	2000	2050	102.5	2000	2040	102.0
Molybdenum	anr								
Nickel	2000	2020	101.0	2000	2030	101.5	2000	2030	101.5
Palladium									
Potassium	40000	40200	100.5	40000	40100	100.3	40000	39800	99.5
Selenium	2000	2000	100.0	2000	2000	100.0	2000	2000	100.0
Silicon									
Silver	250	255	102.0	250	252	100.8	250	251	100.4
Sodium	40000	40600	101.5	40000	40700	101.8	40000	40500	101.3
Sulfur									
Strontium									
Thallium	2000	2100	105.0	2000	2110	105.5	2000	2110	105.5
Tin									
Titanium	anr								
Tungsten									
Vanadium	2000	2000	100.0	2000	2010	100.5	2000	2000	100.0
Zinc	2000	2010	100.5	2000	2020	101.0	2000	2010	100.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA36627 Units: ug/l

Time:		11:57			13:15			14:19	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

12.1.4
12

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA36627 Units: ug/l

Time:		15:23	
Sample ID:	CCV	CCV3	
Metal	True	Results	% Rec
Aluminum	40000	40100	100.3
Antimony	2000	2030	101.5
Arsenic	2000	1980	99.0
Barium	2000	2000	100.0
Beryllium	2000	1990	99.5
Bismuth			
Boron	anr		
Cadmium	2000	1990	99.5
Calcium	40000	40200	100.5
Chromium	2000	2000	100.0
Cobalt	2000	2010	100.5
Copper	2000	1970	98.5
Iron	40000	40000	100.0
Lead	2000	2010	100.5
Lithium			
Magnesium	40000	40000	100.0
Manganese	2000	2010	100.5
Molybdenum	anr		
Nickel	2000	2010	100.5
Palladium			
Potassium	40000	39900	99.8
Selenium	2000	1990	99.5
Silicon			
Silver	250	248	99.2
Sodium	40000	40100	100.3
Sulfur			
Strontium			
Thallium	2000	2090	104.5
Tin			
Titanium	anr		
Tungsten			
Vanadium	2000	1970	98.5
Zinc	2000	1990	99.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA36627 Units: ug/l

Time:		15:23	
Sample ID:	CCV	CCV3	
Metal	True	Results	% Rec
Zirconium			

(*) Outside of QC limits
(anr) Analyte not requested

12.1.4

12

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA36627 Units: ug/l

Time:				12:29		13:27		14:31	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID2		CRID3	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	200	500	100	207	103.5	90.7	90.7	93.5	93.5
Antimony	6.0	20	3.0	5.8	96.7	3.1	103.3	3.9	130.0
Arsenic	8.0	20	3.0	8.8	110.0	2.3	76.7	3.1	103.3
Barium	200		4.0	194	97.0	3.8	95.0	3.5	87.5
Beryllium	2.0		1.0	2.0	100.0	0.80	80.0	0.70	70.0
Bismuth	20								
Boron	100		10	anr					
Cadmium	3.0		1.0	3.0	100.0	1.1	110.0	1.1	110.0
Calcium	5000	2000	1000	4960	99.2	977	97.7	965	96.5
Chromium	10		2.0	10.9	109.0	2.4	120.0	2.3	115.0
Cobalt	50		3.0	50.8	101.6	3.0	100.0	3.0	100.0
Copper	10		2.0	11.3	113.0	2.0	100.0	2.4	120.0
Iron	100	500		97.8	97.8				
Lead	3.0	20	2.5	3.1	103.3	2.2	88.0	3.1	124.0
Lithium	20								
Magnesium	5000	2000	100	5050	101.0	101	101.0	82.3	82.3
Manganese	15		3.0	15.9	106.0	3.0	100.0	3.2	106.7
Molybdenum	20			anr					
Nickel	10		4.0	9.4	94.0	3.4	85.0	3.5	87.5
Palladium	50								
Potassium	5000		2000	5100	102.0	1960	98.0	1970	98.5
Selenium	10	20	5.0	8.2	82.0	6.5	130.0	4.6	92.0
Silicon	200								
Silver	5.0		1.0	5.3	106.0	1.3U	0.0* (a)	1.3U	0.0* (a)
Sodium	5000		1000	5230	104.6	1030	103.0	1130	113.0
Sulfur	50								
Strontium	10								
Thallium	10		2.0	11.8	118.0	1.5	75.0	1.5	75.0
Tin	10								
Titanium	10			anr					
Tungsten	50								
Vanadium	50		2.0	51.1	102.2	1.8	90.0	2.0	100.0
Zinc	20		10	21.9	109.5	11.1	111.0	11.0	110.0

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA36627 Units: ug/l

Time:				12:29		13:27		14:31	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID2		CRID3	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Zirconium	10								

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples reported for this element at this RL in the area bracketed by this QC.

12.1.5

12

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA36627 Units: ug/l

Time:			12:47		12:52	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	500000	500000	508000	101.6	517000	103.4
Antimony		1000	1.2		969	96.9
Arsenic		1000	-1.1		1000	100.0
Barium		500	-0.90		505	101.0
Beryllium		500	0.10		507	101.4
Bismuth		500	2.0		440	88.0
Boron			1.2		3.6	
Cadmium		1000	1.3		985	98.5
Calcium	400000	400000	386000	96.5	393000	98.3
Chromium		500	5.3		507	101.4
Cobalt		500	0.80		479	95.8
Copper		500	-1.3		469	93.8
Iron	200000	200000	194000	97.0	198000	99.0
Lead		1000	-1.4		950	95.0
Lithium		500	13.3		564	112.8
Magnesium	500000	500000	464000	92.8	482000	96.4
Manganese		500	1.8		507	101.4
Molybdenum		500	-1.3		490	98.0
Nickel		1000	-1.6		934	93.4
Palladium		500	-0.40		497	99.4
Potassium			35.0		42.0	
Selenium		1000	-0.20		961	96.1
Silicon			13.8		3.3	
Silver		1000	1.3		1100	110.0
Sodium			54.8		62.0	
Sulfur		500	3.7		478	95.6
Strontium			5.7		-9.4	
Thallium		1000	3.1		900	90.0
Tin			-4.6		-4.3	
Titanium			3.2		3.4	
Tungsten		500	8.5		504	100.8
Vanadium		500	-0.90		502	100.4
Zinc		1000	-3.8		985	98.5

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA36627 Units: ug/l

Time:			12:47		12:52	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Zirconium		500	2.1		494	98.8

(*) Outside of QC limits
(anr) Analyte not requested

12.1.6
12

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: KK Run ID: MA36628
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:10	MA36628-STD1	1		STDA
13:13	MA36628-STD2	1		STDB
13:16	ZZZZZZ	1		
13:19	ZZZZZZ	1		
13:22	MA36628-ICV1	1		
13:25	MA36628-ICB1	1		
13:28	MA36628-CCV1	1		
13:31	MA36628-CCB1	1		
13:34	MA36628-CRI1	1		
13:37	MA36628-CRID1	1		
13:40	MA36628-CRIA1	1		
13:43	MA36628-ICSA1	1		
13:47	MA36628-ICSAB1	1		
13:52	ZZZZZZ	1		
13:55	ZZZZZZ	1		
13:58	ZZZZZZ	1		
14:02	ZZZZZZ	1		
14:05	ZZZZZZ	5		
14:08	MA36628-CCV2	1		
14:11	MA36628-CCB2	1		
14:14	ZZZZZZ	1		
14:17	ZZZZZZ	1		
14:20	MP86356-S1	1		
14:23	MP86356-S2	1		
14:26	JB94061-1	1		(sample used for QC only; not part of login JB94209)
14:29	MP86356-SD1	5		
14:32	ZZZZZZ	1		
14:34	ZZZZZZ	1		
14:37	ZZZZZZ	1		
14:40	MA36628-CCV3	1		
14:43	MA36628-CCB3	1		
14:46	ZZZZZZ	1		
14:49	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: KK Run ID: MA36628
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:52	ZZZZZZ	1		
14:55	ZZZZZZ	1		
14:58	MP86343-S1	1		
15:00	MP86343-S2	1		
15:03	JB94170-4	1		(sample used for QC only; not part of login JB94209)
15:06	MP86343-SD1	5		
15:09	ZZZZZZ	1		
15:12	MA36628-CCV4	1		
15:14	MA36628-CCB4	1		
15:17	ZZZZZZ	1		
15:20	ZZZZZZ	1		
15:23	ZZZZZZ	1		
15:26	ZZZZZZ	1		
15:29	ZZZZZZ	1		
15:32	ZZZZZZ	1		
15:35	ZZZZZZ	1		
15:38	ZZZZZZ	1		
15:41	ZZZZZZ	1		
15:44	MA36628-CCV5	1		
15:47	MA36628-CCB5	1		
15:50	ZZZZZZ	1		
15:53	ZZZZZZ	1		
15:55	ZZZZZZ	1		
15:58	ZZZZZZ	1		
16:01	ZZZZZZ	1		
16:04	ZZZZZZ	1		
16:07	ZZZZZZ	1		
16:10	ZZZZZZ	1		
16:13	MP86362-B1	1		
16:16	MA36628-CCV6	1		
16:18	MA36628-CCB6	1		
16:21	MP86362-MB1	1		
16:24	MP86362-S1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: KK Run ID: MA36628
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:27	MP86362-S2	1		
16:30	JB93751-1	1		(sample used for QC only; not part of login JB94209)
16:33	MP86362-SD1	5		
16:36	ZZZZZZ	1		
16:39	ZZZZZZ	1		
16:42	ZZZZZZ	1		
16:45	ZZZZZZ	1		
16:48	MA36628-CCV7	1		
16:51	MA36628-CCB7	1		
16:54	ZZZZZZ	1		
16:57	ZZZZZZ	1		
16:59	ZZZZZZ	1		
17:02	ZZZZZZ	1		
17:05	ZZZZZZ	1		
17:08	ZZZZZZ	1		
17:11	ZZZZZZ	1		
17:14	JB94209-13	1		
17:17	JB94209-14	1		
17:20	MA36628-CCV8	1		
17:22	MA36628-CCB8	1		
17:25	JB94209-15	1		
17:28	JB94209-16	1		
17:31	JB94209-17	1		
---------->	Last reportable sample/prep for job JB94209			
17:34	ZZZZZZ	1		
17:37	ZZZZZZ	1		
17:40	ZZZZZZ	1		
17:43	ZZZZZZ	1		
17:46	ZZZZZZ	1		
17:50	JB94170-4	1		(sample used for QC only; not part of login JB94209)
17:53	MA36628-CCV9	1		
17:55	MA36628-CCB9	1		
17:58	ZZZZZZ	1		
18:01	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: KK Run ID: MA36628
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	18:04	ZZZZZZ	1		
	18:07	ZZZZZZ	1		
	18:10	ZZZZZZ	1		
	18:13	ZZZZZZ	1		
	18:16	ZZZZZZ	1		
	18:19	ZZZZZZ	1		
	18:22	ZZZZZZ	1		
	18:25	MA36628-CCV10	1		
	18:28	MA36628-CCB10	1		
	18:31	MA36628-CRI2	1		
	18:34	MA36628-CRID2	1		
	18:37	MA36628-CRIA2	1		
	18:40	MA36628-ICSA2	1		
	18:43	MA36628-ICSAB2	1		
	18:46	MA36628-CCV11	1		
	18:48	MA36628-CCB11	1		
---------->	Last reportable CCB for job JB94209				
	18:51	ZZZZZZ	1		
	18:54	MP86358-MB1	5		
	18:57	MP86358-B1	5		
	19:00	MP86358-S1	5		
	19:03	MP86358-S2	5		
	19:06	JB94242-1A	5		(sample used for QC only; not part of login JB94209)
	19:09	MP86358-SD1	25		
	19:12	ZZZZZZ	5		
	19:15	ZZZZZZ	5		
	19:18	MA36628-CCV12	1		
	19:21	MA36628-CCB12	1		
	19:24	ZZZZZZ	5		
	19:27	ZZZZZZ	5		
	19:30	ZZZZZZ	5		
	19:33	ZZZZZZ	5		
	19:36	ZZZZZZ	5		
	19:39	ZZZZZZ	5		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: KK Run ID: MA36628
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:42	ZZZZZZ	5		
19:45	ZZZZZZ	5		
19:48	ZZZZZZ	5		
19:51	MA36628-CCV13	1		
19:54	MA36628-CCB13	1		
19:57	ZZZZZZ	5		
20:00	ZZZZZZ	5		
20:03	ZZZZZZ	5		
20:06	ZZZZZZ	1		
20:09	MP86352-S1	1		
20:12	MP86352-S2	1		
20:14	JB93788-1A	1		(sample used for QC only; not part of login JB94209)
20:17	MP86352-SD1	5		
20:20	ZZZZZZ	1		
20:23	MA36628-CCV14	1		
20:26	MA36628-CCB14	1		
20:29	ZZZZZZ	1		
20:32	ZZZZZZ	1		
20:35	ZZZZZZ	1		
20:38	ZZZZZZ	1		
20:40	ZZZZZZ	1		
20:43	ZZZZZZ	1		
20:46	ZZZZZZ	1		
20:49	ZZZZZZ	1		
20:52	ZZZZZZ	1		
20:55	MA36628-CCV15	1		
20:58	MA36628-CCB15	1		
21:01	ZZZZZZ	1		
21:04	ZZZZZZ	1		
21:07	ZZZZZZ	1		
21:09	ZZZZZZ	1		
21:13	ZZZZZZ	1		
21:16	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: KK Run ID: MA36628
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
21:19	MP86347-S1	1		
21:21	MP86347-S2	1		
21:24	JB93805-1	1		(sample used for QC only; not part of login JB94209)
21:27	MP86347-SD1	5		
21:30	MA36628-CCV16	1		
21:32	MA36628-CCB16	1		
21:35	ZZZZZZ	1		
21:38	ZZZZZZ	1		
21:41	ZZZZZZ	1		
21:44	ZZZZZZ	1		
21:47	ZZZZZZ	1		
21:50	ZZZZZZ	1		
21:53	ZZZZZZ	1		
21:56	ZZZZZZ	1		
21:59	ZZZZZZ	1		
22:02	MA36628-CCV17	1		
22:05	MA36628-CCB17	1		
22:08	ZZZZZZ	1		
22:11	ZZZZZZ	1		
22:14	ZZZZZZ	1		
22:17	ZZZZZZ	1		
22:20	ZZZZZZ	1		
22:23	ZZZZZZ	1		
22:26	ZZZZZZ	1		
22:29	ZZZZZZ	1		
22:32	ZZZZZZ	1		
22:35	MA36628-CCV18	1		
22:37	MA36628-CCB18	1		
22:40	ZZZZZZ	2		
22:43	ZZZZZZ	5		
22:46	MP86362-S1	5		
22:49	MP86362-S2	5		
22:52	JB93751-1	5		(sample used for QC only; not part of login JB94209)

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: KK Run ID: MA36628
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
22:55	MP86362-SD1	25		
22:58	MA36628-CCV19	1		
23:01	MA36628-CCB19	1		
23:04	MA36628-CRI3	1		
23:07	MA36628-CRID3	1		
23:10	MA36628-CRIA3	1		
23:13	MA36628-ICSA3	1		
23:16	MA36628-ICSAB3	1		
23:19	MA36628-CCV20	1		
23:21	MA36628-CCB20	1		
23:24	ZZZZZZ	1		
23:27	ZZZZZZ	1		
23:30	ZZZZZZ	1		
23:33	ZZZZZZ	1		
23:36	ZZZZZZ	1		
23:39	ZZZZZZ	1		
23:43	ZZZZZZ	1		
23:45	ZZZZZZ	1		
23:48	ZZZZZZ	1		
23:51	ZZZZZZ	1		
23:54	ZZZZZZ	1		

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: KK Run ID: MA36628
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:10	MA36628-STD1	2129 R	57396 R	18981 R	4963 R
13:13	MA36628-STD2	1923	51087	18828	4196
13:16	ZZZZZZ	1978	53028	18923	4349
13:19	ZZZZZZ	2129	57118	19665	5039
13:22	MA36628-ICV1	1971	52669	18735	4332
13:25	MA36628-ICB1	2112	56824	19643	4974
13:28	MA36628-CCV1	1965	52616	18874	4340
13:31	MA36628-CCB1	2110	57003	19731	4964
13:34	MA36628-CRI1	2025	54699	19035	4683
13:37	MA36628-CRID1	2049	55063	19134	4757
13:40	MA36628-CRIA1	2046	55062	19093	4761
13:43	MA36628-ICSA1	1813	49025	18340	3901
13:47	MA36628-ICSAB1	1817	48872	18335	3903
13:52	ZZZZZZ	2034	54846	19172	4777
13:55	ZZZZZZ	2024	55804	19287	4786
13:58	ZZZZZZ	2072	56047	19377	4835
14:02	ZZZZZZ	2047	55071	19099	4708
14:05	ZZZZZZ	2049	55382	19233	4763
14:08	MA36628-CCV2	1983	53251	18935	4364
14:11	MA36628-CCB2	2136	57118	19823	5014
14:14	ZZZZZZ	2077	56633	19783	4835
14:17	ZZZZZZ	2003	54291	19311	4475
14:20	MP86356-S1	2042	55023	20033	4408
14:23	MP86356-S2	2057	55076	20093	4403
14:26	JB94061-1	2112	56535	20178	4590
14:29	MP86356-SD1	2097	56216	19724	4734
14:32	ZZZZZZ	4694 !	999999 !	999999 !	10634 !
14:34	ZZZZZZ	2089	55782	19993	4571
14:37	ZZZZZZ	2022	54191	19746	4389
14:40	MA36628-CCV3	1984	52869	19127	4360
14:43	MA36628-CCB3	2150	57185	19817	5013
14:46	ZZZZZZ	1954	53214	19670	4109
14:49	ZZZZZZ	1967	53449	19399	4193

INTERNAL STANDARD SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: KK Run ID: MA36628
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
14:52	ZZZZZZ	2014	54318	19642	4610
14:55	ZZZZZZ	2008	54440	19644	4528
14:58	MP86343-S1	1954	52597	19369	4242
15:00	MP86343-S2	1957	52364	19433	4243
15:03	JB94170-4	1971	52763	19219	4324
15:06	MP86343-SD1	2039	54936	19222	4644
15:09	ZZZZZZ	1987	53800	19246	4431
15:12	MA36628-CCV4	1997	53086	18985	4370
15:14	MA36628-CCB4	2153	56904	19738	4999
15:17	ZZZZZZ	2067	55554	19421	4776
15:20	ZZZZZZ	1997	54188	19754	4354
15:23	ZZZZZZ	1908	51709	18971	4156
15:26	ZZZZZZ	1915	51828	18992	4138
15:29	ZZZZZZ	1910	51448	18785	4107
15:32	ZZZZZZ	2119	56231	20061	4591
15:35	ZZZZZZ	2135	56927	20151	4603
15:38	ZZZZZZ	2159	58011	20810	4628
15:41	ZZZZZZ	2189	58650	20941	4619
15:44	MA36628-CCV5	1993	52978	18905	4369
15:47	MA36628-CCB5	2121	57107	19438	4933
15:50	ZZZZZZ	2086	55535	19830	4634
15:53	ZZZZZZ	2062	55641	19976	4387
15:55	ZZZZZZ	1614	44990	17471	3461 !a
15:58	ZZZZZZ	2079	56135	19641	4703
16:01	ZZZZZZ	2090	56401	19831	4728
16:04	ZZZZZZ	2093	56521	19760	4754
16:07	ZZZZZZ	2094	56368	19751	4740
16:10	ZZZZZZ	2107	56306	20332	4606
16:13	MP86362-B1	2015	53958	19366	4482
16:16	MA36628-CCV6	1997	53043	19213	4386
16:18	MA36628-CCB6	2131	57185	19818	4954
16:21	MP86362-MB1	2103	57313	20084	4900
16:24	MP86362-S1	1770	49553	18685	4597

INTERNAL STANDARD SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: KK Run ID: MA36628
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
16:27	MP86362-S2	1794	49789	18696	4630
16:30	JB93751-1	1804	50500	18527	4678
16:33	MP86362-SD1	2004	53741	18965	4656
16:36	ZZZZZZ	No results reported for the elements associated with this internal standard.			
16:39	ZZZZZZ	2098	56688	20157	4606
16:42	ZZZZZZ	1933	52218	19577	3931
16:45	ZZZZZZ	2154	57697	20533	4614
16:48	MA36628-CCV7	1985	53207	18849	4366
16:51	MA36628-CCB7	2108	56811	19275	4928
16:54	ZZZZZZ	2175	57976	20777	4613
16:57	ZZZZZZ	2181	58058	20386	4708
16:59	ZZZZZZ	2153	57493	20520	4559
17:02	ZZZZZZ	2167	57860	20637	4587
17:05	ZZZZZZ	2129	56837	19736	4891
17:08	ZZZZZZ	2135	57017	19706	4936
17:11	ZZZZZZ	2071	55770	19701	4577
17:14	JB94209-13	1865	50121	18532	3968
17:17	JB94209-14	2038	54632	19172	4543
17:20	MA36628-CCV8	1972	52776	18624	4356
17:22	MA36628-CCB8	2103	56712	19130	4929
17:25	JB94209-15	1855	49864	18496	3936
17:28	JB94209-16	2017	54521	19192	4545
17:31	JB94209-17	2061	55759	19115	4816
17:34	ZZZZZZ	No results reported for the elements associated with this internal standard.			
17:37	ZZZZZZ	1686	46027	17988	3518
17:40	ZZZZZZ	1852	50960	18564	4001
17:43	ZZZZZZ	1931	52651	18910	4197
17:46	ZZZZZZ	1818	50723	18577	3947
17:50	JB94170-4	1934	52963	18544	4311
17:53	MA36628-CCV9	1979	53011	18442	4361
17:55	MA36628-CCB9	2114	56610	19041	4921
17:58	ZZZZZZ	2036	55139	18642	4752
18:01	ZZZZZZ	1873	51320	18691	4067

INTERNAL STANDARD SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: KK Run ID: MA36628
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
18:04	ZZZZZZ	1823	50506	18506	3979
18:07	ZZZZZZ	2123	57525	20022	5055
18:10	ZZZZZZ	2075	56866	19812	4840
18:13	ZZZZZZ	1775	48528	18538	3616
18:16	ZZZZZZ	2093	56632	20046	4666
18:19	ZZZZZZ	2105	56386	19910	4646
18:22	ZZZZZZ	2106	56587	19851	4668
18:25	MA36628-CCV10	1948	52355	18344	4317
18:28	MA36628-CCB10	2103	56313	18993	4935
18:31	MA36628-CRI2	2032	54955	18607	4704
18:34	MA36628-CRID2	2041	54746	18492	4763
18:37	MA36628-CRIA2	2036	55005	18548	4773
18:40	MA36628-ICSA2	1805	48654	17849	3895
18:43	MA36628-ICSAB2	1801	48497	17827	3880
18:46	MA36628-CCV11	1957	52756	18385	4342
18:48	MA36628-CCB11	2073	55393	18639	4826
18:51	ZZZZZZ	2145	57614	20006	4696
18:54	MP86358-MB1	1920	51642	18411	4217
18:57	MP86358-B1	1947	52556	18477	4283
19:00	MP86358-S1	1942	52015	18481	4222
19:03	MP86358-S2	1948	52270	18400	4227
19:06	JB94242-1A	1929	51831	18308	4237
19:09	MP86358-SD1	2013	54124	18308	4556
19:12	ZZZZZZ	1945	52724	18395	4271
19:15	ZZZZZZ	1913	51901	18084	4166
19:18	MA36628-CCV12	1963	52530	18118	4354
19:21	MA36628-CCB12	2051	55490	18352	4826
19:24	ZZZZZZ	1939	52380	18208	4265
19:27	ZZZZZZ	1930	52249	18168	4255
19:30	ZZZZZZ	1940	51877	18254	4242
19:33	ZZZZZZ	1946	52243	18286	4280
19:36	ZZZZZZ	1939	52447	18223	4276
19:39	ZZZZZZ	1955	52754	18441	4305

INTERNAL STANDARD SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: KK Run ID: MA36628
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
19:42	ZZZZZZ	1956	52607	18179	4306
19:45	ZZZZZZ	1931	52303	18169	4222
19:48	ZZZZZZ	1934	52282	18111	4248
19:51	MA36628-CCV13	1965	52817	18137	4371
19:54	MA36628-CCB13	2059	55863	18358	4849
19:57	ZZZZZZ	1916	51579	18078	4167
20:00	ZZZZZZ	1899	51160	17987	4149
20:03	ZZZZZZ	1938	51987	18065	4222
20:06	ZZZZZZ	2051	56021	18676	4830
20:09	MP86352-S1	2078	56593	20206	4329
20:12	MP86352-S2	2077	56308	20333	4330
20:14	JB93788-1A	2131	57571	20208	4452
20:17	MP86352-SD1	2078	55775	18923	4674
20:20	ZZZZZZ	2064	55289	19302	4460
20:23	MA36628-CCV14	1979	52874	18145	4382
20:26	MA36628-CCB14	2083	56015	18551	4872
20:29	ZZZZZZ	2118	56512	19381	4539
20:32	ZZZZZZ	2112	56693	19454	4631
20:35	ZZZZZZ	2101	56157	19625	4524
20:38	ZZZZZZ	2131	57630	20464	4441
20:40	ZZZZZZ	2129	57306	20508	4428
20:43	ZZZZZZ	2163	58080	20736	4426
20:46	ZZZZZZ	2136	56984	19795	4581
20:49	ZZZZZZ	2031	54698	18975	4538
20:52	ZZZZZZ	1939	53806	18911	4522
20:55	MA36628-CCV15	1982	52648	18079	4363
20:58	MA36628-CCB15	2083	55482	18428	4834
21:01	ZZZZZZ	2114	56632	20128	4364
21:04	ZZZZZZ	2123	56727	19950	4471
21:07	ZZZZZZ	2131	57017	20496	4440
21:09	ZZZZZZ	2060	54503	19410	4470
21:13	ZZZZZZ	2170	57651	20246	4475
21:16	ZZZZZZ	2080	55614	18688	4808

INTERNAL STANDARD SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: KK Run ID: MA36628
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
21:19	MP86347-S1	1984	52985	18554	4352
21:21	MP86347-S2	1989	52780	18529	4363
21:24	JB93805-1	2025	54103	18552	4545
21:27	MP86347-SD1	2058	55015	18396	4731
21:30	MA36628-CCV16	1982	52469	18155	4339
21:32	MA36628-CCB16	2082	55380	18450	4806
21:35	ZZZZZZ	2084	55342	18651	4787
21:38	ZZZZZZ	2037	54682	18571	4628
21:41	ZZZZZZ	1976	52180	18408	4273
21:44	ZZZZZZ	2008	53483	18500	4483
21:47	ZZZZZZ	1946	51642	18243	4210
21:50	ZZZZZZ	2001	53386	18539	4481
21:53	ZZZZZZ	2015	54293	18471	4565
21:56	ZZZZZZ	2029	54121	18406	4539
21:59	ZZZZZZ	2036	54456	18485	4657
22:02	MA36628-CCV17	1979	52788	17986	4342
22:05	MA36628-CCB17	2077	55485	18296	4810
22:08	ZZZZZZ	1961	52391	18148	4263
22:11	ZZZZZZ	1987	53708	18305	4476
22:14	ZZZZZZ	1938	51751	18056	4208
22:17	ZZZZZZ	1983	53574	18411	4456
22:20	ZZZZZZ	2006	53957	18319	4530
22:23	ZZZZZZ	1277 !a	35816 !a	15403	2638 !a
22:26	ZZZZZZ	1888	51472	18138	4091
22:29	ZZZZZZ	2044	55876	18565	4783
22:32	ZZZZZZ	2061	55753	18530	4798
22:35	MA36628-CCV18	1979	52818	18002	4367
22:37	MA36628-CCB18	2065	56085	18162	4829
22:40	ZZZZZZ	1732	47328	16928	3714
22:43	ZZZZZZ	1829	49717	17399	3978
22:46	MP86362-S1	1956	52734	17826	4545
22:49	MP86362-S2	1944	52834	17899	4558
22:52	JB93751-1	1952	53098	17970	4610

INTERNAL STANDARD SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: KK Run ID: MA36628
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
22:55	MP86362-SD1	2043	54683	18018	4707
22:58	MA36628-CCV19	1955	52377	17811	4326
23:01	MA36628-CCB19	2056	55441	18128	4828
23:04	MA36628-CRI3	2046	54706	18011	4686
23:07	MA36628-CRID3	2023	54585	18002	4740
23:10	MA36628-CRIA3	2026	54868	17913	4756
23:13	MA36628-ICSA3	1812	48844	17301	3894
23:16	MA36628-ICSAB3	1803	48410	17217	3899
23:19	MA36628-CCV20	1962	52578	17760	4352
23:21	MA36628-CCB20	2055	55339	18076	4832
23:24	ZZZZZZ	2031	54994	17960	4775
23:27	ZZZZZZ	2043	55118	17855	4784
23:30	ZZZZZZ	2050	55264	18068	4795
23:33	ZZZZZZ	2033	55077	17956	4767
23:36	ZZZZZZ	2029	51935	18087	4305
23:39	ZZZZZZ	1865	51271	17400	4157
23:43	ZZZZZZ	2048	55101	17920	4797
23:45	ZZZZZZ	2049	55380	18079	4807
23:48	ZZZZZZ	2045	55133	17908	4816
23:51	ZZZZZZ	2059	55295	18070	4818
23:54	ZZZZZZ	2033	55050	17995	4798

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	70-130 %
Istd#2	Yttrium (3600)	70-130 %
Istd#3	Yttrium (3710)	70-130 %
Istd#4	Indium	70-130 %

(a) No samples reported for the elements associated with this internal standard.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA36628 Units: ug/l

Time:			13:25		13:31		14:11		14:43	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	9.4	-7.4	<200	-1.9	<200	-1.0	<200	5.2	<200
Antimony	6.0	1.8	0.80	<6.0	1.0	<6.0	0.0	<6.0	1.2	<6.0
Arsenic	3.0	1.5	0.60	<3.0	0.20	<3.0	0.30	<3.0	0.60	<3.0
Barium	200	.26	-0.10	<200	-0.20	<200	-0.50	<200	-0.20	<200
Beryllium	1.0	.14	0.0	<1.0	0.0	<1.0	-0.10	<1.0	0.0	<1.0
Bismuth	20	2								
Boron	100	1								
Cadmium	3.0	.25	0.10	<3.0	-0.30	<3.0	-0.20	<3.0	-0.10	<3.0
Calcium	5000	14	2.8	<5000	3.9	<5000	4.1	<5000	4.3	<5000
Chromium	10	.57	0.0	<10	-0.40	<10	-0.30	<10	-0.10	<10
Cobalt	50	.34	-0.20	<50	0.40	<50	0.30	<50	0.50	<50
Copper	10	.76	0.0	<10	-0.60	<10	-0.40	<10	0.10	<10
Iron	100	4.5	2.0	<100	3.4	<100	0.30	<100	2.7	<100
Lead	3.0	1	1.5	<3.0	0.60	<3.0	0.30	<3.0	-1.0	<3.0
Lithium	20	1.7								
Magnesium	5000	38	11.7	<5000	10.1	<5000	25.5	<5000	14.1	<5000
Manganese	15	.13	0.10	<15	0.0	<15	0.10	<15	0.10	<15
Molybdenum	20	.24								
Nickel	10	.57	-0.10	<10	-0.10	<10	0.20	<10	0.40	<10
Palladium	50	2.3								
Potassium	10000	36	64.0	<10000	56.8	<10000	73.3	<10000	54.0	<10000
Selenium	10	2.3	0.20	<10	1.3	<10	1.1	<10	0.20	<10
Silicon	200	6.5								
Silver	10	.79	-0.30	<10	-0.10	<10	0.0	<10	-1.1	<10
Sodium	10000	9.3	18.1	<10000	20.5	<10000	32.9	<10000	13.0	<10000
Sulfur	50	3.4								
Strontium	10	.15								
Thallium	2.0	1.9	-0.70	<2.0	0.50	<2.0	1.2	<2.0	0.20	<2.0
Tin	10	.76								
Titanium	10	.88								
Tungsten	50	1.8								
Vanadium	50	.41	0.40	<50	-0.10	<50	0.30	<50	0.40	<50
Zinc	20	1.2	0.20	<20	0.10	<20	0.30	<20	0.20	<20

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA36628 Units: ug/l

Time:			13:25		13:31		14:11		14:43	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zirconium	10	.19								

(*) Outside of QC limits
(anr) Analyte not requested

12.2.2
12

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA36628 Units: ug/l

Time:			15:14		15:47		16:18		16:51	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	9.4	6.5	<200	10.8	<200	5.0	<200	0.90	<200
Antimony	6.0	1.8	1.1	<6.0	0.90	<6.0	1.1	<6.0	0.40	<6.0
Arsenic	3.0	1.5	-0.70	<3.0	-1.1	<3.0	-0.50	<3.0	-1.4	<3.0
Barium	200	.26	0.10	<200	-0.10	<200	-0.40	<200	-0.30	<200
Beryllium	1.0	.14	0.0	<1.0	0.0	<1.0	0.0	<1.0	0.0	<1.0
Bismuth	20	2								
Boron	100	1								
Cadmium	3.0	.25	0.10	<3.0	0.0	<3.0	0.0	<3.0	0.20	<3.0
Calcium	5000	14	3.8	<5000	3.7	<5000	5.1	<5000	8.2	<5000
Chromium	10	.57	0.10	<10	0.0	<10	-0.10	<10	0.40	<10
Cobalt	50	.34	-0.20	<50	-0.30	<50	0.10	<50	0.20	<50
Copper	10	.76	0.70	<10	0.50	<10	0.10	<10	0.50	<10
Iron	100	4.5	4.0	<100	5.6	<100	4.0	<100	4.8	<100
Lead	3.0	1	0.50	<3.0	1.0	<3.0	0.70	<3.0	1.6	<3.0
Lithium	20	1.7								
Magnesium	5000	38	4.2	<5000	18.8	<5000	6.9	<5000	11.5	<5000
Manganese	15	.13	0.0	<15	0.10	<15	0.10	<15	0.10	<15
Molybdenum	20	.24								
Nickel	10	.57	-0.20	<10	0.20	<10	0.50	<10	-0.30	<10
Palladium	50	2.3								
Potassium	10000	36	83.1	<10000	63.3	<10000	120	<10000	125	<10000
Selenium	10	2.3	2.7	<10	-1.3	<10	0.70	<10	-1.0	<10
Silicon	200	6.5								
Silver	10	.79	-0.30	<10	-0.20	<10	0.50	<10	0.20	<10
Sodium	10000	9.3	19.4	<10000	26.9	<10000	61.1	<10000	49.4	<10000
Sulfur	50	3.4								
Strontium	10	.15								
Thallium	2.0	1.9	0.10	<2.0	0.50	<2.0	1.0	<2.0	0.30	<2.0
Tin	10	.76								
Titanium	10	.88								
Tungsten	50	1.8								
Vanadium	50	.41	0.0	<50	0.50	<50	-0.20	<50	0.20	<50
Zinc	20	1.2	0.30	<20	0.30	<20	0.10	<20	0.20	<20

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA36628 Units: ug/l

Time:			15:14		15:47		16:18		16:51	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zirconium	10	.19								

(*) Outside of QC limits
(anr) Analyte not requested

12.2.2
12

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA36628 Units: ug/l

Time:			17:22		17:55		18:28		18:48	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	9.4	-9.0	<200	-2.8	<200	2.9	<200	4.1	<200
Antimony	6.0	1.8	2.0	<6.0	0.70	<6.0	1.4	<6.0	0.30	<6.0
Arsenic	3.0	1.5	-0.50	<3.0	-0.60	<3.0	-0.20	<3.0	-1.3	<3.0
Barium	200	.26	-0.30	<200	-0.20	<200	-0.20	<200	-0.20	<200
Beryllium	1.0	.14	0.0	<1.0	0.10	<1.0	0.0	<1.0	0.0	<1.0
Bismuth	20	2								
Boron	100	1								
Cadmium	3.0	.25	-0.20	<3.0	-0.20	<3.0	0.10	<3.0	-0.10	<3.0
Calcium	5000	14	4.5	<5000	7.4	<5000	4.9	<5000	5.4	<5000
Chromium	10	.57	0.30	<10	-0.10	<10	0.0	<10	0.0	<10
Cobalt	50	.34	-0.20	<50	0.20	<50	-0.20	<50	0.0	<50
Copper	10	.76	0.0	<10	-0.30	<10	-0.50	<10	0.10	<10
Iron	100	4.5	2.4	<100	2.6	<100	7.1	<100	3.9	<100
Lead	3.0	1	-0.30	<3.0	0.50	<3.0	1.2	<3.0	1.0	<3.0
Lithium	20	1.7								
Magnesium	5000	38	12.9	<5000	11.2	<5000	9.0	<5000	18.0	<5000
Manganese	15	.13	0.0	<15	0.10	<15	0.20	<15	0.0	<15
Molybdenum	20	.24								
Nickel	10	.57	0.10	<10	-0.10	<10	-0.60	<10	-0.30	<10
Palladium	50	2.3								
Potassium	10000	36	101	<10000	117	<10000	115	<10000	130	<10000
Selenium	10	2.3	1.3	<10	-0.30	<10	2.0	<10	0.90	<10
Silicon	200	6.5								
Silver	10	.79	1.3	<10	0.10	<10	0.60	<10	0.10	<10
Sodium	10000	9.3	77.9	<10000	109	<10000	72.3	<10000	74.2	<10000
Sulfur	50	3.4								
Strontium	10	.15								
Thallium	2.0	1.9	-0.40	<2.0	0.80	<2.0	1.4	<2.0	-0.10	<2.0
Tin	10	.76								
Titanium	10	.88								
Tungsten	50	1.8								
Vanadium	50	.41	0.20	<50	0.10	<50	0.50	<50	0.50	<50
Zinc	20	1.2	0.20	<20	0.20	<20	0.20	<20	0.10	<20

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA36628 Units: ug/l

Time:			17:22		17:55		18:28		18:48	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zirconium	10	.19								

(*) Outside of QC limits
(anr) Analyte not requested

12.2.2
12

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA36628 Units: ug/l

Time:		13:22			13:28			14:08	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40000	100.0	40000	39700	99.3	40000	39400	98.5
Antimony	2000	2010	100.5	2000	2010	100.5	2000	1990	99.5
Arsenic	2000	2000	100.0	2000	2000	100.0	2000	1980	99.0
Barium	2000	2020	101.0	2000	2010	100.5	2000	1990	99.5
Beryllium	2000	2040	102.0	2000	2030	101.5	2000	2010	100.5
Bismuth									
Boron									
Cadmium	2000	2010	100.5	2000	2020	101.0	2000	1990	99.5
Calcium	40000	40400	101.0	40000	40400	101.0	40000	40000	100.0
Chromium	2000	2020	101.0	2000	2020	101.0	2000	1990	99.5
Cobalt	2000	2020	101.0	2000	2020	101.0	2000	2010	100.5
Copper	2000	1980	99.0	2000	1970	98.5	2000	1950	97.5
Iron	40000	41100	102.8	40000	40600	101.5	40000	40200	100.5
Lead	2000	2040	102.0	2000	2040	102.0	2000	2020	101.0
Lithium									
Magnesium	40000	40900	102.3	40000	40600	101.5	40000	40100	100.3
Manganese	2000	2030	101.5	2000	2030	101.5	2000	2010	100.5
Molybdenum									
Nickel	2000	2040	102.0	2000	2040	102.0	2000	2020	101.0
Palladium									
Potassium	40000	40300	100.8	40000	40000	100.0	40000	39800	99.5
Selenium	2000	2000	100.0	2000	2010	100.5	2000	1980	99.0
Silicon									
Silver	250	248	99.2	250	246	98.4	250	246	98.4
Sodium	40000	40300	100.8	40000	40200	100.5	40000	40000	100.0
Sulfur									
Strontium									
Thallium	2000	2080	104.0	2000	2070	103.5	2000	2060	103.0
Tin									
Titanium									
Tungsten									
Vanadium	2000	1990	99.5	2000	2000	100.0	2000	1980	99.0
Zinc	2000	2040	102.0	2000	2040	102.0	2000	2030	101.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA36628 Units: ug/l

Time:		13:22			13:28			14:08	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

12.2.3
12

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA36628 Units: ug/l

Time:		14:40			15:12			15:44	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39200	98.0	40000	39600	99.0	40000	39400	98.5
Antimony	2000	1980	99.0	2000	1960	98.0	2000	1960	98.0
Arsenic	2000	1970	98.5	2000	1950	97.5	2000	1960	98.0
Barium	2000	1980	99.0	2000	2000	100.0	2000	2000	100.0
Beryllium	2000	1990	99.5	2000	1970	98.5	2000	1970	98.5
Bismuth									
Boron									
Cadmium	2000	1990	99.5	2000	1970	98.5	2000	1970	98.5
Calcium	40000	39700	99.3	40000	39400	98.5	40000	39400	98.5
Chromium	2000	2010	100.5	2000	2000	100.0	2000	1990	99.5
Cobalt	2000	2010	100.5	2000	1990	99.5	2000	1990	99.5
Copper	2000	1950	97.5	2000	1940	97.0	2000	1940	97.0
Iron	40000	39700	99.3	40000	39700	99.3	40000	39700	99.3
Lead	2000	2020	101.0	2000	2020	101.0	2000	2010	100.5
Lithium									
Magnesium	40000	39400	98.5	40000	39300	98.3	40000	39400	98.5
Manganese	2000	2020	101.0	2000	2000	100.0	2000	2000	100.0
Molybdenum									
Nickel	2000	2020	101.0	2000	2010	100.5	2000	2000	100.0
Palladium									
Potassium	40000	39500	98.8	40000	39500	98.8	40000	39600	99.0
Selenium	2000	1970	98.5	2000	1970	98.5	2000	1960	98.0
Silicon									
Silver	250	248	99.2	250	247	98.8	250	243	97.2
Sodium	40000	39800	99.5	40000	39800	99.5	40000	39700	99.3
Sulfur									
Strontium									
Thallium	2000	2060	103.0	2000	2050	102.5	2000	2040	102.0
Tin									
Titanium									
Tungsten									
Vanadium	2000	2000	100.0	2000	2000	100.0	2000	1980	99.0
Zinc	2000	2030	101.5	2000	2010	100.5	2000	2010	100.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA36628 Units: ug/l

Time:		14:40			15:12			15:44	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA36628 Units: ug/l

Time:		16:16			16:48			17:20	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	38800	97.0	40000	38700	96.8	40000	38800	97.0
Antimony	2000	1960	98.0	2000	1950	97.5	2000	1970	98.5
Arsenic	2000	1950	97.5	2000	1950	97.5	2000	1960	98.0
Barium	2000	1960	98.0	2000	1960	98.0	2000	1970	98.5
Beryllium	2000	1940	97.0	2000	1930	96.5	2000	1940	97.0
Bismuth									
Boron									
Cadmium	2000	1960	98.0	2000	1960	98.0	2000	1970	98.5
Calcium	40000	38900	97.3	40000	38700	96.8	40000	38900	97.3
Chromium	2000	1990	99.5	2000	1970	98.5	2000	1980	99.0
Cobalt	2000	1990	99.5	2000	1980	99.0	2000	1980	99.0
Copper	2000	1920	96.0	2000	1920	96.0	2000	1930	96.5
Iron	40000	38800	97.0	40000	38500	96.3	40000	38800	97.0
Lead	2000	2000	100.0	2000	2000	100.0	2000	1990	99.5
Lithium									
Magnesium	40000	38300	95.8	40000	38100	95.3	40000	38500	96.3
Manganese	2000	1990	99.5	2000	1980	99.0	2000	1990	99.5
Molybdenum									
Nickel	2000	2000	100.0	2000	1990	99.5	2000	2000	100.0
Palladium									
Potassium	40000	39300	98.3	40000	39500	98.8	40000	39900	99.8
Selenium	2000	1960	98.0	2000	1950	97.5	2000	1950	97.5
Silicon									
Silver	250	243	97.2	250	241	96.4	250	242	96.8
Sodium	40000	39500	98.8	40000	39600	99.0	40000	39800	99.5
Sulfur									
Strontium									
Thallium	2000	2040	102.0	2000	2020	101.0	2000	2030	101.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	1990	99.5	2000	1960	98.0	2000	1960	98.0
Zinc	2000	2000	100.0	2000	1990	99.5	2000	2000	100.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA36628 Units: ug/l

Time:		16:16			16:48			17:20	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

12.2.3
12

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA36628 Units: ug/l

Time:		17:53			18:25			18:46	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39000	97.5	40000	39100	97.8	40000	38800	97.0
Antimony	2000	1970	98.5	2000	1990	99.5	2000	2000	100.0
Arsenic	2000	1960	98.0	2000	1980	99.0	2000	1990	99.5
Barium	2000	1990	99.5	2000	2000	100.0	2000	1980	99.0
Beryllium	2000	1940	97.0	2000	1940	97.0	2000	1940	97.0
Bismuth									
Boron									
Cadmium	2000	1980	99.0	2000	2000	100.0	2000	2000	100.0
Calcium	40000	39300	98.3	40000	39300	98.3	40000	38900	97.3
Chromium	2000	1990	99.5	2000	2000	100.0	2000	2000	100.0
Cobalt	2000	1990	99.5	2000	1990	99.5	2000	2000	100.0
Copper	2000	1920	96.0	2000	1930	96.5	2000	1930	96.5
Iron	40000	38800	97.0	40000	38600	96.5	40000	38700	96.8
Lead	2000	2000	100.0	2000	2000	100.0	2000	2020	101.0
Lithium									
Magnesium	40000	38900	97.3	40000	38600	96.5	40000	38500	96.3
Manganese	2000	1990	99.5	2000	1990	99.5	2000	2000	100.0
Molybdenum									
Nickel	2000	2010	100.5	2000	2020	101.0	2000	2020	101.0
Palladium									
Potassium	40000	40300	100.8	40000	40400	101.0	40000	40700	101.8
Selenium	2000	1960	98.0	2000	1980	99.0	2000	1980	99.0
Silicon									
Silver	250	243	97.2	250	243	97.2	250	243	97.2
Sodium	40000	39900	99.8	40000	40100	100.3	40000	40200	100.5
Sulfur									
Strontium									
Thallium	2000	2030	101.5	2000	2030	101.5	2000	2030	101.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	1970	98.5	2000	1980	99.0	2000	1970	98.5
Zinc	2000	2010	100.5	2000	2020	101.0	2000	2030	101.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA36628 Units: ug/l

Time:		17:53			18:25			18:46	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

12.2.3
12

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA36628 Units: ug/l

Time:				13:34		13:37		13:40	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1		CRIA1	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	200	500	100	205	102.5	101	101.0	510	102.0
Antimony	6.0	20	3.0	7.8	130.0	3.7	123.3	23.0	115.0
Arsenic	8.0	20	3.0	6.5	81.3	2.2	73.3	17.9	89.5
Barium	200		4.0	203	101.5	3.8	95.0		
Beryllium	2.0		1.0	2.0	100.0	0.90	90.0		
Bismuth	20								
Boron	100		10						
Cadmium	3.0		1.0	3.4	113.3	1.2	120.0		
Calcium	5000	2000	1000	5020	100.4	1010	101.0	2070	103.5
Chromium	10		2.0	11.3	113.0	2.1	105.0		
Cobalt	50		3.0	52.2	104.4	3.4	113.3		
Copper	10		2.0	10.5	105.0	1.9	95.0		
Iron	100	500		107	107.0			539	107.8
Lead	3.0	20	2.5	2.4	80.0	1.9	76.0	21.4	107.0
Lithium	20								
Magnesium	5000	2000	100	5080	101.6	103	103.0	2090	104.5
Manganese	15		3.0	15.9	106.0	3.1	103.3		
Molybdenum	20								
Nickel	10		4.0	10.2	102.0	3.7	92.5		
Palladium	50								
Potassium	5000		2000	5100	102.0	2020	101.0		
Selenium	10	20	5.0	10.3	103.0	6.1	122.0	21.8	109.0
Silicon	200								
Silver	5.0		1.0	5.2	104.0	2.3	230.0*(a		
Sodium	5000		1000	5050	101.0	1010	101.0		
Sulfur	50								
Strontium	10								
Thallium	10		2.0	10.2	102.0	2.6	130.0		
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0	51.7	103.4	1.7	85.0		
Zinc	20		10	23.0	115.0	11.1	111.0		

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA36628 Units: ug/l

Time:				13:34		13:37		13:40	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1		CRIA1	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Zirconium	10								

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples reported for this element at this RL in the area bracketed by this QC.

12.2.4

12

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA36628 Units: ug/l

Time:				18:31		18:34		18:37	
Sample ID:	CRI	CRIA	CRID	CRI2		CRID2		CRIA2	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	200	500	100	203	101.5	91.4	91.4	489	97.8
Antimony	6.0	20	3.0	7.1	118.3	3.1	103.3	21.4	107.0
Arsenic	8.0	20	3.0	7.4	92.5	2.5	83.3	20.9	104.5
Barium	200		4.0	199	99.5	3.9	97.5		
Beryllium	2.0		1.0	1.9	95.0	0.90	90.0		
Bismuth	20								
Boron	100		10						
Cadmium	3.0		1.0	3.0	100.0	1.2	120.0		
Calcium	5000	2000	1000	4830	96.6	979	97.9	1990	99.5
Chromium	10		2.0	10.6	106.0	2.0	100.0		
Cobalt	50		3.0	51.2	102.4	2.7	90.0		
Copper	10		2.0	10.8	108.0	1.9	95.0		
Iron	100	500		104	104.0			514	102.8
Lead	3.0	20	2.5	2.1	70.0	2.3	92.0	19.4	97.0
Lithium	20								
Magnesium	5000	2000	100	4820	96.4	88.3	88.3	1980	99.0
Manganese	15		3.0	15.6	104.0	3.1	103.3		
Molybdenum	20								
Nickel	10		4.0	9.9	99.0	3.4	85.0		
Palladium	50								
Potassium	5000		2000	5180	103.6	2080	104.0		
Selenium	10	20	5.0	11.8	118.0			23.2	116.0
Silicon	200								
Silver	5.0		1.0	5.7	114.0	0.90	90.0		
Sodium	5000		1000	5090	101.8	1060	106.0		
Sulfur	50								
Strontium	10								
Thallium	10		2.0	9.1	91.0	2.3	115.0		
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0	49.8	99.6	2.2	110.0		
Zinc	20		10	22.8	114.0	11.2	112.0		

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA36628 Units: ug/l

Time:				18:31		18:34		18:37	
Sample ID:	CRI	CRIA	CRID	CRI2		CRID2		CRIA2	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Zirconium	10								

(*) Outside of QC limits
(anr) Analyte not requested

12.2.4

12

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA36628 Units: ug/l

Time:			13:43		13:47		18:40		18:43	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	489000	97.8	502000	100.4	481000	96.2	485000	97.0
Antimony		1000	8.6		1000	100.0	8.3		1010	101.0
Arsenic		1000	3.3		990	99.0	3.3		988	98.8
Barium		500	-1.6		506	101.2	-1.7		500	100.0
Beryllium		500	-0.20		503	100.6	-0.30		482	96.4
Bismuth		500	18.4		503	100.6	17.2		506	101.2
Boron			-5.0		1.0		-7.3		1.5	
Cadmium		1000	1.8		1020	102.0	1.6		1020	102.0
Calcium	400000	400000	376000	94.0	376000	94.0	362000	90.5	363000	90.8
Chromium		500	2.0		496	99.2	1.5		494	98.8
Cobalt		500	0.80		494	98.8	0.70		495	99.0
Copper		500	2.2		515	103.0	2.1		508	101.6
Iron	200000	200000	198000	99.0	191000	95.5	188000	94.0	183000	91.5
Lead		1000	0.50		961	96.1	-1.5		960	96.0
Lithium		500	13.1		560	112.0	9.6		555	111.0
Magnesium	500000	500000	491000	98.2	491000	98.2	468000	93.6	468000	93.6
Manganese		500	-0.30		497	99.4	-1.3		491	98.2
Molybdenum		500	0.70		485	97.0	0.30		485	97.0
Nickel		1000	2.4		976	97.6	2.2		977	97.7
Palladium		500	42.9		562	112.4	41.2		554	110.8
Potassium			258		254		324		373	
Selenium		1000	1.7		864	86.4	-7.4		853	85.3
Silicon			13.9		17.0		11.7		19.0	
Silver		1000	5.0		1020	102.0	-1.4		1020	102.0
Sodium			20.0		54.0		128		161	
Sulfur		500	-8.6		508	101.6	0.50		518	103.6
Strontium			-0.60		-0.50		-0.50		-0.50	
Thallium		1000	-0.10		920	92.0	3.1		910	91.0
Tin			-7.7		-4.0		-4.6		-5.8	
Titanium			0.60		1.4		2.2		1.2	
Tungsten		500	6.8		499	99.8	6.3		499	99.8
Vanadium		500	1.6		491	98.2	1.3		490	98.0
Zinc		1000	1.3		972	97.2	1.2		974	97.4

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SE051115M1.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA36628 Units: ug/l

Time:			13:43		13:47		18:40		18:43	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Zirconium		500	-2.0		485	97.0	-2.3		478	95.6

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA36629
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:56	MA36629-STD1	1		STDA
17:02	MA36629-STD2	1		STDB
17:07	ZZZZZZ	1		
17:13	ZZZZZZ	1		
17:19	MA36629-ICV1	1		
17:31	MA36629-ICB1	1		
17:37	MA36629-ICCV1	1		
17:47	MA36629-CCB1	1		
17:53	MA36629-CRI1	1		
17:58	MA36629-CRID1	1		
18:04	MA36629-CRIA1	1		
18:10	ZZZZZZ	2		
18:16	MA36629-ICSA1	1		
18:22	MA36629-ICSAB1	1		
18:27	ZZZZZZ	1		
18:33	ZZZZZZ	1		
18:39	ZZZZZZ	1		
18:45	MA36629-CCV1	1		
18:51	MA36629-CCB2	1		
18:56	MP86344-MB1	1		Batch to reanalysis for low level Ag, CRID level < IDL.
19:02	MP86344-B1	1		Batch to reanalysis for Tl, ICV out for EPA.
19:08	MP86344-S1	1		High RSD.
19:14	MP86344-S2	1		
19:20	JB94238-7	1		(sample used for QC only; not part of login JB94209)
19:26	MP86344-SD1	5		
19:31	MP86344-S3	1		
19:37	MP86344-S4	1		
19:43	JB94237-1	1		(sample used for QC only; not part of login JB94209)
19:49	MP86344-SD2	5		
19:55	MA36629-CCV2	1		
20:01	MA36629-CCB3	1		
20:07	MA36629-CCV3	1		
20:13	MA36629-CCB4	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA36629
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
20:19	ZZZZZZ	1		
20:24	ZZZZZZ	1		
20:30	ZZZZZZ	1		
20:36	ZZZZZZ	1		
20:42	ZZZZZZ	1		
20:48	ZZZZZZ	1		
20:54	ZZZZZZ	1		
20:59	ZZZZZZ	1		
21:05	MA36629-CRID2	1		
21:11	MA36629-CCV4	1		
21:17	MA36629-CCB5	1		
21:23	MP86357-MB1	5		
21:29	MP86357-B1	5		
21:35	MP86357-S1	5		
21:40	MP86357-S2	5		
21:46	JB94258-1	5		(sample used for QC only; not part of login JB94209)
21:52	MP86357-SD1	25		
21:58	MP86349-MB1	1		
22:04	MP86349-B1	1		
22:09	MP86349-S1	1		
22:15	MA36629-CCV5	1		
22:21	MA36629-CCB6	1		
22:27	MP86349-S2	1		
22:32	JB93689-1	1		(sample used for QC only; not part of login JB94209)
22:38	MP86349-SD1	5		
22:44	ZZZZZZ	1		
22:50	ZZZZZZ	1		
22:55	ZZZZZZ	1		
23:01	JB94209-1	1		
23:07	JB94209-2	1		
23:13	ZZZZZZ	1		
23:19	MA36629-CCV6	1		
23:24	MA36629-CCB7	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA36629
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	23:30	MA36629-CRI2	1		
	23:36	MA36629-CRID3	1		
	23:42	MA36629-CRIA2	1		
	23:48	MA36629-ICSA2	1		
	23:54	MA36629-ICSAB2	1		
	23:59	ZZZZZZ	1		
	00:05	MA36629-CCV7	1		
	00:11	MA36629-CCB8	1		
	00:17	MP86344-S1	1		CRID out for TLNJ
	00:23	JB94209-3	1		
	00:29	JB94209-4	1		
	00:34	JB94209-5	1		
	00:40	JB94209-6	1		
	00:46	JB94209-7	1		
	00:52	JB94209-8	1		
	00:58	JB94209-9	1		
	01:03	JB94209-10	1		Dup of -18. Sandy, brown with a lot of stones.
	01:09	JB94209-11	1		
	01:15	MA36629-CCV8	1		
	01:21	MA36629-CCB9	1		
	01:27	JB94209-12	1		
	01:32	JB94209-18	1		Dup of -10. Much darker than 10, similar in texture.
---------->	Last reportable sample/prep for job JB94209				
	01:38	ZZZZZZ	1		
	01:44	ZZZZZZ	1		
	01:50	ZZZZZZ	1		
	01:55	MP86351-MB1	1		
	02:01	MP86351-B1	1		
	02:07	MP86351-S1	1		
	02:13	MP86351-S2	1		
	02:19	JB93306-5	1		(sample used for QC only; not part of login JB94209)
	02:24	MA36629-CCV9	1		
	02:30	MA36629-CCB10	1		
	02:36	MP86351-SD1	5		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA36629
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
02:42	ZZZZZZ	1		
02:48	ZZZZZZ	1		
02:53	ZZZZZZ	1		
02:59	ZZZZZZ	1		
03:05	ZZZZZZ	1		
03:11	ZZZZZZ	1		
03:17	ZZZZZZ	1		
03:22	ZZZZZZ	1		
03:28	ZZZZZZ	1		
03:34	MA36629-CCV10	1		
03:40	MA36629-CCB11	1		
03:46	ZZZZZZ	1		
03:51	ZZZZZZ	1		
03:57	ZZZZZZ	1		
04:03	ZZZZZZ	1		
04:09	ZZZZZZ	1		
04:15	ZZZZZZ	1		
04:21	ZZZZZZ	1		
04:26	ZZZZZZ	1		
04:32	ZZZZZZ	1		
04:38	ZZZZZZ	1		
04:44	MA36629-CCV11	1		
04:50	MA36629-CCB12	1		
04:55	MP86372-MB1	1		
05:01	MP86372-B1	1		
05:07	ZZZZZZ	1		
05:13	MP86372-S1	1		
05:18	MP86372-S2	1		
05:24	JB93955-5	1		(sample used for QC only; not part of login JB94209)
05:30	MP86372-SD1	5		
05:36	ZZZZZZ	1		
05:42	ZZZZZZ	1		
05:47	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA36629
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	05:53	MA36629-CCV12	1		
	05:59	MA36629-CCB13	1		
	06:05	MA36629-CRI3	1		
	06:11	MA36629-CRID4	1		TLNJ out.
	06:16	MA36629-CRIA3	1		
	06:22	MA36629-ICSA3	1		
	06:28	MA36629-ICSAB3	1		
	06:34	MA36629-CCV13	1		
	06:40	MA36629-CCB14	1		
---------->	Last reportable CCB for job JB94209				
	06:45	ZZZZZZ	1		
	06:51	ZZZZZZ	1		
	06:57	ZZZZZZ	1		
	07:03	ZZZZZZ	1		
	07:09	ZZZZZZ	1		
	07:14	MP86359-MB1	1		
	07:20	MP86359-B1	1		
	07:26	MP86359-S1	1		
	07:32	MP86359-S2	1		
	07:37	MA36629-CCV14	1		
	07:43	MA36629-CCB15	1		
	07:49	JB94225-3	1		(sample used for QC only; not part of login JB94209)
	07:55	MP86359-SD1	5		
	08:01	ZZZZZZ	1		
	08:06	ZZZZZZ	1		
	08:12	ZZZZZZ	1		
	08:18	ZZZZZZ	1		
	08:24	ZZZZZZ	1		
	08:30	ZZZZZZ	1		
	08:35	ZZZZZZ	1		
	08:41	ZZZZZZ	1		
	08:47	MA36629-CCV15	1		
	08:53	MA36629-CCB16	1		
	08:59	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA36629
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:05	ZZZZZZ	1		
09:10	MA36629-CRI4	1		Sb out.
09:16	MA36629-CRID5	1		
09:22	MA36629-CCV16	1		
09:28	MA36629-CCB17	1		
09:34	ZZZZZZ	1		
09:40	ZZZZZZ	1		
09:45	ZZZZZZ	1		
09:51	ZZZZZZ	1		
09:56	ZZZZZZ	1		
10:00	ZZZZZZ	1		

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA36629
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
16:56	MA36629-STD1	5076 R	104660 R	7239 R	7513 R
17:02	MA36629-STD2	4444	91774	6903	6111
17:07	ZZZZZZ	4633	94336	6960	6409
17:13	ZZZZZZ	5031	103590	7168	7418
17:19	MA36629-ICV1	4644	94758	7013	6377
17:31	MA36629-ICB1	5056	103460	7196	7438
17:37	MA36629-ICCV1	4634	94739	6930	6382
17:47	MA36629-CCB1	5025	104180	7280	7373
17:53	MA36629-CRI1	4983	102460	7142	7239
17:58	MA36629-CRID1	5048	103210	7177	7371
18:04	MA36629-CRIA1	5024	103130	7170	7368
18:10	ZZZZZZ	5062	103630	7256	7380
18:16	MA36629-ICSA1	4105	84239	6743	5522
18:22	MA36629-ICSAB1	4142	85734	6716	5569
18:27	ZZZZZZ	4994	102510	7246	7121
18:33	ZZZZZZ	4969	104640	7290	7389
18:39	ZZZZZZ	5060	103990	7209	7398
18:45	MA36629-CCV1	4676	95212	7068	6395
18:51	MA36629-CCB2	5080	102820	7120	7415
18:56	MP86344-MB1	5150	104000	7316	7557
19:02	MP86344-B1	4818	99296	7313	6678
19:08	MP86344-S1	No results reported for the elements associated with this internal standard.			
19:14	MP86344-S2	4270	87168	6961	5760
19:20	JB94238-7	4332	87007	6947	5869
19:26	MP86344-SD1	4643	94201	6987	6523
19:31	MP86344-S3	4293	86949	6982	5745
19:37	MP86344-S4	4217	86628	6989	5666
19:43	JB94237-1	4255	86312	6911	5785
19:49	MP86344-SD2	4651	93864	6900	6528
19:55	MA36629-CCV2	4716	95837	7105	6438
20:01	MA36629-CCB3	5096	103350	7135	7442
20:07	MA36629-CCV3	4796	98230	7299	6537
20:13	MA36629-CCB4	5263	108800	7472	7651

INTERNAL STANDARD SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA36629
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
20:19	ZZZZZZ	4965	101310	7725	7013
20:24	ZZZZZZ	4881	101190	7542	6909
20:30	ZZZZZZ	5116	104170	7742	7232
20:36	ZZZZZZ	5410	109850	7740	8064
20:42	ZZZZZZ	4665	94325	7280	6431
20:48	ZZZZZZ	4412	88763	7204	6067
20:54	ZZZZZZ	4498	90435	7277	6093
20:59	ZZZZZZ	4439	91330	7297	5941
21:05	MA36629-CRID2	5319	108110	7640	7759
21:11	MA36629-CCV4	4872	99375	7411	6683
21:17	MA36629-CCB5	5368	109200	7642	7852
21:23	MP86357-MB1	4853	98538	7436	6562
21:29	MP86357-B1	4904	99992	7487	6681
21:35	MP86357-S1	4824	97522	7362	6546
21:40	MP86357-S2	4874	98483	7434	6600
21:46	JB94258-1	4853	97850	7289	6700
21:52	MP86357-SD1	5109	104050	7492	7260
21:58	MP86349-MB1	5503	112070	7832	7956
22:04	MP86349-B1	5110	104270	7555	6994
22:09	MP86349-S1	4910	101850	7504	6776
22:15	MA36629-CCV5	4917	101300	7479	6729
22:21	MA36629-CCB6	5370	109690	7699	7854
22:27	MP86349-S2	4603	94565	7273	6065
22:32	JB93689-1	5182	105290	7657	7130
22:38	MP86349-SD1	5279	107400	7636	7471
22:44	ZZZZZZ	5074	102650	7617	7050
22:50	ZZZZZZ	5462	110020	7929	7442
22:55	ZZZZZZ	5377	108210	7811	7580
23:01	JB94209-1	5069	103000	7553	7009
23:07	JB94209-2	5275	106530	7668	7263
23:13	ZZZZZZ	4443	999999 !	7405	5967
23:19	MA36629-CCV6	4913	99866	7362	6694
23:24	MA36629-CCB7	5362	108670	7538	7815

INTERNAL STANDARD SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA36629
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
23:30	MA36629-CRI2	5308	107660	7598	7658
23:36	MA36629-CRID3	5349	108590	7568	7763
23:42	MA36629-CRIA2	5370	110860	7585	7820
23:48	MA36629-ICSA2	4359	88067	7053	5790
23:54	MA36629-ICSAB2	4342	87071	6939	5776
23:59	ZZZZZZ	5394	109270	7622	7895
00:05	MA36629-CCV7	4941	99268	7372	6705
00:11	MA36629-CCB8	5442	110390	7753	7878
00:17	MP86344-S1	4468	90578	7348	5958
00:23	JB94209-3	5324	106300	7795	7167
00:29	JB94209-4	5088	103000	7575	6853
00:34	JB94209-5	5123	103250	7712	6921
00:40	JB94209-6	5248	104890	7751	7068
00:46	JB94209-7	5214	104540	7723	7147
00:52	JB94209-8	5287	106010	7778	7127
00:58	JB94209-9	5334	107420	7891	7118
01:03	JB94209-10	5365	107080	7802	7231
01:09	JB94209-11	4992	99900	7564	6603
01:15	MA36629-CCV8	4955	99322	7347	6698
01:21	MA36629-CCB9	5360	108570	7536	7764
01:27	JB94209-12	5164	103750	7614	6912
01:32	JB94209-18	5316	106160	7752	7101
01:38	ZZZZZZ	5267	105880	7738	7030
01:44	ZZZZZZ	5334	107720	7614	7369
01:50	ZZZZZZ	5275	105700	7548	7237
01:55	MP86351-MB1	5469	109500	7586	7810
02:01	MP86351-B1	5117	102750	7415	6921
02:07	MP86351-S1	4821	97237	7367	6458
02:13	MP86351-S2	5025	101260	7713	6677
02:19	JB93306-5	5101	102400	7615	6870
02:24	MA36629-CCV9	4959	100120	7371	6724
02:30	MA36629-CCB10	5434	109340	7584	7849
02:36	MP86351-SD1	5324	106300	7618	7432

INTERNAL STANDARD SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA36629
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
02:42	ZZZZZZ	4939	99194	7617	6361
02:48	ZZZZZZ	5264	105680	7696	7092
02:53	ZZZZZZ	5146	104040	7652	6883
02:59	ZZZZZZ	5346	107170	7862	7127
03:05	ZZZZZZ	5228	105060	7692	7079
03:11	ZZZZZZ	5399	108750	7907	7083
03:17	ZZZZZZ	5000	100780	7466	6515
03:22	ZZZZZZ	5225	105060	7731	6839
03:28	ZZZZZZ	5270	106100	7736	6917
03:34	MA36629-CCV10	4977	99936	7330	6732
03:40	MA36629-CCB11	5415	109740	7596	7837
03:46	ZZZZZZ	5003	100700	7516	6615
03:51	ZZZZZZ	5233	105150	7718	6877
03:57	ZZZZZZ	5233	105040	7664	6886
04:03	ZZZZZZ	5280	105680	7722	6964
04:09	ZZZZZZ	5210	104790	7719	6912
04:15	ZZZZZZ	5059	101300	7533	6664
04:21	ZZZZZZ	4654	99913	7473	6517
04:26	ZZZZZZ	4615	98384	7387	6389
04:32	ZZZZZZ	4830	101940	7555	6688
04:38	ZZZZZZ	4430	95919	7297	6228
04:44	MA36629-CCV11	4974	98964	7234	6702
04:50	MA36629-CCB12	5369	108210	7422	7714
04:55	MP86372-MB1	5522	110380	7690	8137
05:01	MP86372-B1	5127	102710	7434	7109
05:07	ZZZZZZ	4949	98945	7391	6816
05:13	MP86372-S1	5037	101600	7511	6930
05:18	MP86372-S2	4963	101960	7425	6850
05:24	JB93955-5	5291	106500	7622	7480
05:30	MP86372-SD1	5422	108130	7499	7725
05:36	ZZZZZZ	4921	97752	7331	6609
05:42	ZZZZZZ	5266	105870	7674	7398
05:47	ZZZZZZ	5208	105610	7643	7297

INTERNAL STANDARD SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA36629
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
05:53	MA36629-CCV12	4974	97133	7127	6727
05:59	MA36629-CCB13	5437	108750	7450	7827
06:05	MA36629-CRI3	5335	106920	7422	7621
06:11	MA36629-CRID4	5379	108270	7440	7739
06:16	MA36629-CRIA3	5406	108560	7429	7803
06:22	MA36629-ICSA3	4351	87280	6830	5757
06:28	MA36629-ICSAB3	4339	87182	6799	5756
06:34	MA36629-CCV13	4946	99529	7226	6696
06:40	MA36629-CCB14	5429	108750	7440	7850
06:45	ZZZZZZ	5181	104830	7680	7178
06:51	ZZZZZZ	5222	105210	7589	7386
06:57	ZZZZZZ	5155	103750	7531	7112
07:03	ZZZZZZ	5221	105100	7562	7287
07:09	ZZZZZZ	5351	107900	7687	7672
07:14	MP86359-MB1	5517	111220	7655	8078
07:20	MP86359-B1	5117	103520	7401	6980
07:26	MP86359-S1	5093	102900	7467	6841
07:32	MP86359-S2	5103	103910	7486	6841
07:37	MA36629-CCV14	4961	98341	7171	6736
07:43	MA36629-CCB15	5395	109340	7294	7835
07:49	JB94225-3	5386	109500	7652	7602
07:55	MP86359-SD1	5396	108920	7452	7876
08:01	ZZZZZZ	5430	109160	7668	7665
08:06	ZZZZZZ	5396	108010	7551	7758
08:12	ZZZZZZ	5437	109580	7654	7803
08:18	ZZZZZZ	5463	110160	7605	7935
08:24	ZZZZZZ	5419	109570	7596	7873
08:30	ZZZZZZ	5389	108720	7614	7815
08:35	ZZZZZZ	5457	108870	7718	7816
08:41	ZZZZZZ	5465	109720	7759	7693
08:47	MA36629-CCV15	5006	100410	7387	6779
08:53	MA36629-CCB16	5468	110180	7623	7922
08:59	ZZZZZZ	5111	103760	7694	6850

INTERNAL STANDARD SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA36629
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
09:05	ZZZZZZ	5541	112330	7737	8037
09:10	MA36629-CRI4	5366	108790	7593	7736
09:16	MA36629-CRID5	5463	111480	7706	7921
09:22	MA36629-CCV16	4973	100630	7405	6764
09:28	MA36629-CCB17	5449	110320	7595	7905
09:34	ZZZZZZ	5499	111470	7683	7998
09:40	ZZZZZZ	5435	110470	7584	8131
09:45	ZZZZZZ	5450	110070	7579	7840
09:51	ZZZZZZ	5484	110560	7609	7894
09:56	ZZZZZZ	5442	110180	7596	7884
10:00	ZZZZZZ	5452	109130	7528	7796

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	70-130 %
Istd#2	Yttrium (3600)	70-130 %
Istd#3	Yttrium (3710)	70-130 %
Istd#4	Indium	70-130 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA36629 Units: ug/l

Time:			17:31		17:47		18:51		20:01	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	22	-6.2	<200	-1.8	<200	-5.9	<200	-25	<200
Antimony	6.0	1.7	-0.30	<6.0	-0.80	<6.0	0.0	<6.0	0.70	<6.0
Arsenic	3.0	1.2	0.90	<3.0	0.60	<3.0	0.10	<3.0	0.40	<3.0
Barium	200	.4	0.50	<200	0.80	<200	0.0	<200	0.50	<200
Beryllium	1.0	.3	0.20	<1.0	0.10	<1.0	0.20	<1.0	0.40	<1.0
Bismuth	20	3.2								
Boron	100	1.6	anr							
Cadmium	3.0	.3	0.0	<3.0	0.0	<3.0	0.0	<3.0	0.0	<3.0
Calcium	2000	29	0.40	<5000	-0.10	<5000	-2.7	<5000	-0.90	<5000
Chromium	10	.9	0.60	<10	0.60	<10	1.0	<10	0.50	<10
Cobalt	50	.3	0.10	<50	0.30	<50	0.20	<50	0.40	<50
Copper	10	1.8	-0.20	<10	0.0	<10	0.0	<10	-0.30	<10
Iron	100	9.4	-1.3	<100	5.5	<100	13.6	<100	10.2	<100
Lead	3.0	1.6	0.20	<3.0	0.0	<3.0	0.10	<3.0	-0.30	<3.0
Lithium	20	3.5								
Magnesium	2000	47	58.3	<5000	16.6	<5000	27.0	<5000	38.6	<5000
Manganese	15	.5	0.10	<15	0.10	<15	0.20	<15	0.60	<15
Molybdenum	20	.8	anr							
Nickel	10	.4	-0.20	<10	0.20	<10	-0.30	<10	0.60	<10
Palladium	50	4.2								
Potassium	2000	71	-49	<10000	-14	<10000	-48	<10000	-11	<10000
Selenium	10	2.4	1.9	<10	2.2	<10	0.90	<10	2.6	<10
Silicon	200	5.1								
Silver	10	1.5	0.0	<10	-0.70	<10	-1.1	<10	-1.3	<10
Sodium	2000	26	-2.9	<10000	31.5	<10000	3.2	<10000	276	<10000
Sulfur	50	28								
Strontium	10	.4								
Thallium	2.0	1.3	0.40	<2.0	0.70	<2.0	1.2	<2.0	-0.10	<2.0
Tin	10	.7								
Titanium	10	1	anr							
Tungsten	50	1.8								
Vanadium	50	.7	0.0	<50	0.10	<50	0.20	<50	0.30	<50
Zinc	20	1.4	-0.20	<20	-0.10	<20	-0.20	<20	19.1	<20* (a)

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA36629 Units: ug/l

Time:			17:31		17:47		18:51		20:01	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zirconium	10	.7								

(*) Outside of QC limits
(anr) Analyte not requested
(a) All reported results <RL or >10x CCB value.

12.3.2
12

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA36629 Units: ug/l

Time:			20:13		21:17		22:21		23:24	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	22	4.5	<200	-0.30	<200	13.4	<200	-9.4	<200
Antimony	6.0	1.7	0.10	<6.0	0.10	<6.0	0.80	<6.0	-0.90	<6.0
Arsenic	3.0	1.2	0.50	<3.0	0.40	<3.0	-0.60	<3.0	-0.10	<3.0
Barium	200	.4	0.40	<200	0.20	<200	0.50	<200	1.0	<200
Beryllium	1.0	.3	0.30	<1.0	0.20	<1.0	0.30	<1.0	0.20	<1.0
Bismuth	20	3.2								
Boron	100	1.6	anr							
Cadmium	3.0	.3	0.10	<3.0	0.10	<3.0	0.0	<3.0	0.0	<3.0
Calcium	2000	29	0.20	<5000	4.2	<5000	1.3	<5000	0.0	<5000
Chromium	10	.9	0.90	<10	0.80	<10	0.70	<10	0.60	<10
Cobalt	50	.3	0.10	<50	0.20	<50	0.20	<50	0.30	<50
Copper	10	1.8	0.20	<10	0.40	<10	0.30	<10	0.20	<10
Iron	100	9.4	8.7	<100	18.2	<100	8.5	<100	17.6	<100
Lead	3.0	1.6	-0.10	<3.0	0.40	<3.0	-0.60	<3.0	-0.10	<3.0
Lithium	20	3.5								
Magnesium	2000	47	71.9	<5000	22.3	<5000	25.5	<5000	43.9	<5000
Manganese	15	.5	0.40	<15	0.60	<15	0.50	<15	0.50	<15
Molybdenum	20	.8	anr							
Nickel	10	.4	0.10	<10	0.40	<10	0.10	<10	0.20	<10
Palladium	50	4.2								
Potassium	2000	71	-46	<10000	6.6	<10000	1.4	<10000	61.6	<10000
Selenium	10	2.4	1.5	<10	1.7	<10	2.8	<10	0.30	<10
Silicon	200	5.1								
Silver	10	1.5	-0.60	<10	-0.60	<10	-0.40	<10	-0.50	<10
Sodium	2000	26	178	<10000	207	<10000	93.7	<10000	177	<10000
Sulfur	50	28								
Strontium	10	.4								
Thallium	2.0	1.3	0.70	<2.0	0.0	<2.0	0.70	<2.0	0.80	<2.0
Tin	10	.7								
Titanium	10	1	anr							
Tungsten	50	1.8								
Vanadium	50	.7	0.50	<50	0.20	<50	0.0	<50	-0.30	<50
Zinc	20	1.4	-0.10	<20	-0.10	<20	-0.10	<20	-0.10	<20

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA36629 Units: ug/l

Time:			20:13		21:17		22:21		23:24	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zirconium	10	.7								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA36629 Units: ug/l

Time:			00:11		01:21		02:30		03:40	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	22	13.2	<200	-0.30	<200	-28	<200	4.3	<200
Antimony	6.0	1.7	1.6	<6.0	0.90	<6.0	0.40	<6.0	0.10	<6.0
Arsenic	3.0	1.2	0.10	<3.0	-0.70	<3.0	0.0	<3.0	-0.30	<3.0
Barium	200	.4	0.40	<200	0.70	<200	1.2	<200	1.1	<200
Beryllium	1.0	.3	0.20	<1.0	0.30	<1.0	0.40	<1.0	0.0	<1.0
Bismuth	20	3.2								
Boron	100	1.6	anr							
Cadmium	3.0	.3	0.10	<3.0	0.0	<3.0	0.20	<3.0	0.0	<3.0
Calcium	2000	29	4.5	<5000	2.5	<5000	-3.5	<5000	-4.6	<5000
Chromium	10	.9	1.2	<10	0.70	<10	0.80	<10	0.90	<10
Cobalt	50	.3	0.20	<50	0.20	<50	0.40	<50	0.0	<50
Copper	10	1.8	-0.20	<10	-0.30	<10	0.10	<10	-0.70	<10
Iron	100	9.4	20.3	<100	22.1	<100	27.6	<100	26.5	<100
Lead	3.0	1.6	-0.20	<3.0	-0.10	<3.0	0.50	<3.0	-0.50	<3.0
Lithium	20	3.5								
Magnesium	2000	47	24.1	<5000	16.2	<5000	37.1	<5000	13.4	<5000
Manganese	15	.5	0.30	<15	0.80	<15	0.80	<15	1.0	<15
Molybdenum	20	.8	anr							
Nickel	10	.4	-0.10	<10	0.10	<10	0.0	<10	0.10	<10
Palladium	50	4.2								
Potassium	2000	71	-43	<10000	-61	<10000	-46	<10000	5.9	<10000
Selenium	10	2.4	1.4	<10	1.0	<10	1.6	<10	0.40	<10
Silicon	200	5.1								
Silver	10	1.5	-0.90	<10	-0.90	<10	-1.4	<10	-1.0	<10
Sodium	2000	26	55.3	<10000	40.3	<10000	20.8	<10000	41.5	<10000
Sulfur	50	28								
Strontium	10	.4								
Thallium	2.0	1.3	0.30	<2.0	0.70	<2.0	0.90	<2.0	0.10	<2.0
Tin	10	.7								
Titanium	10	1	anr							
Tungsten	50	1.8								
Vanadium	50	.7	0.20	<50	0.40	<50	0.40	<50	0.30	<50
Zinc	20	1.4	-0.20	<20	0.0	<20	0.10	<20	0.0	<20

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA36629 Units: ug/l

Time:			00:11		01:21		02:30		03:40	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zirconium	10	.7								

(*) Outside of QC limits
(anr) Analyte not requested

12.3.2
12

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA36629 Units: ug/l

Time:			04:50		05:59		06:40	
Sample ID:			CCB12		CCB13		CCB14	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	22	2.7	<200	-7.5	<200	18.3	<200
Antimony	6.0	1.7	-0.40	<6.0	-0.70	<6.0	0.90	<6.0
Arsenic	3.0	1.2	0.40	<3.0	-0.30	<3.0	-0.40	<3.0
Barium	200	.4	0.90	<200	0.30	<200	0.90	<200
Beryllium	1.0	.3	0.10	<1.0	0.20	<1.0	0.30	<1.0
Bismuth	20	3.2						
Boron	100	1.6	anr					
Cadmium	3.0	.3	0.0	<3.0	0.0	<3.0	0.10	<3.0
Calcium	2000	29	1.5	<5000	-6.9	<5000	5.9	<5000
Chromium	10	.9	0.70	<10	0.90	<10	1.0	<10
Cobalt	50	.3	0.0	<50	0.20	<50	0.30	<50
Copper	10	1.8	-0.70	<10	-0.50	<10	0.40	<10
Iron	100	9.4	19.1	<100	21.4	<100	24.6	<100
Lead	3.0	1.6	-0.20	<3.0	0.20	<3.0	0.20	<3.0
Lithium	20	3.5						
Magnesium	2000	47	-3.3	<5000	33.0	<5000	-0.90	<5000
Manganese	15	.5	0.80	<15	0.70	<15	0.70	<15
Molybdenum	20	.8	anr					
Nickel	10	.4	0.20	<10	0.10	<10	0.10	<10
Palladium	50	4.2						
Potassium	2000	71	-41	<10000	-8.9	<10000	-22	<10000
Selenium	10	2.4	1.0	<10	1.8	<10	1.7	<10
Silicon	200	5.1						
Silver	10	1.5	-1.0	<10	-1.4	<10	-1.2	<10
Sodium	2000	26	10.0	<10000	37.1	<10000	20.2	<10000
Sulfur	50	28						
Strontium	10	.4						
Thallium	2.0	1.3	0.0	<2.0	0.60	<2.0	0.0	<2.0
Tin	10	.7						
Titanium	10	1	anr					
Tungsten	50	1.8						
Vanadium	50	.7	0.10	<50	0.0	<50	0.10	<50
Zinc	20	1.4	0.0	<20	0.20	<20	0.10	<20

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA36629 Units: ug/l

Time:			04:50		05:59		06:40	
Sample ID:			CCB12		CCB13		CCB14	
Metal	RL	IDL	raw	final	raw	final	raw	final
Zirconium	10	.7						

(*) Outside of QC limits
(anr) Analyte not requested

12.3.2
12

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA36629 Units: ug/l

Time:		17:37	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Aluminum	40000	39700	99.3
Antimony	2000	2060	103.0
Arsenic	2000	2020	101.0
Barium	2000	1970	98.5
Beryllium	2000	1990	99.5
Bismuth			
Boron	anr		
Cadmium	2000	2030	101.5
Calcium	40000	40200	100.5
Chromium	2000	2010	100.5
Cobalt	2000	2040	102.0
Copper	2000	1990	99.5
Iron	40000	40200	100.5
Lead	2000	2040	102.0
Lithium			
Magnesium	40000	40500	101.3
Manganese	2000	2060	103.0
Molybdenum	anr		
Nickel	2000	2050	102.5
Palladium			
Potassium	40000	39500	98.8
Selenium	2000	2000	100.0
Silicon			
Silver	250	250	100.0
Sodium	40000	40500	101.3
Sulfur			
Strontium			
Thallium	2000	2110	105.5*
Tin			
Titanium	anr		
Tungsten			
Vanadium	2000	2010	100.5
Zinc	2000	2020	101.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA36629 Units: ug/l

Time:		17:37	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Zirconium			

(*) Outside of QC limits
(anr) Analyte not requested

12.3.3
12

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA36629 Units: ug/l

Time:		17:19			18:45			19:55	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39900	99.8	40000	39500	98.8	40000	38700	96.8
Antimony	2000	2070	103.5	2000	2070	103.5	2000	2030	101.5
Arsenic	2000	2060	103.0	2000	2030	101.5	2000	2000	100.0
Barium	2000	1950	97.5	2000	1970	98.5	2000	1940	97.0
Beryllium	2000	2010	100.5	2000	2010	100.5	2000	1960	98.0
Bismuth									
Boron	anr								
Cadmium	2000	2050	102.5	2000	2030	101.5	2000	2000	100.0
Calcium	40000	40500	101.3	40000	40200	100.5	40000	39300	98.3
Chromium	2000	2030	101.5	2000	2010	100.5	2000	1980	99.0
Cobalt	2000	2020	101.0	2000	2050	102.5	2000	2020	101.0
Copper	2000	2000	100.0	2000	2000	100.0	2000	1980	99.0
Iron	40000	39900	99.8	40000	40000	100.0	40000	39100	97.8
Lead	2000	2050	102.5	2000	2060	103.0	2000	2030	101.5
Lithium									
Magnesium	40000	40400	101.0	40000	40400	101.0	40000	39600	99.0
Manganese	2000	2060	103.0	2000	2080	104.0	2000	2040	102.0
Molybdenum	anr								
Nickel	2000	2040	102.0	2000	2060	103.0	2000	2040	102.0
Palladium									
Potassium	40000	39700	99.3	40000	39300	98.3	40000	38600	96.5
Selenium	2000	2020	101.0	2000	1990	99.5	2000	1960	98.0
Silicon									
Silver	250	262	104.8	250	253	101.2	250	247	98.8
Sodium	40000	41400	103.5	40000	40700	101.8	40000	39800	99.5
Sulfur									
Strontium									
Thallium	2000	2130	106.5*	2000	2130	106.5	2000	2110	105.5
Tin									
Titanium	anr								
Tungsten									
Vanadium	2000	2010	100.5	2000	2030	101.5	2000	2000	100.0
Zinc	2000	2040	102.0	2000	2020	101.0	2000	2000	100.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA36629 Units: ug/l

Time:		17:19			18:45			19:55	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

12.3.4
12

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA36629 Units: ug/l

Time:		20:07			21:11			22:15	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39600	99.0	40000	40100	100.3	40000	39500	98.8
Antimony	2000	2090	104.5	2000	2110	105.5	2000	2090	104.5
Arsenic	2000	2030	101.5	2000	2020	101.0	2000	2020	101.0
Barium	2000	1990	99.5	2000	2040	102.0	2000	2000	100.0
Beryllium	2000	2020	101.0	2000	2020	101.0	2000	1980	99.0
Bismuth									
Boron	anr								
Cadmium	2000	2060	103.0	2000	2080	104.0	2000	2070	103.5
Calcium	40000	40100	100.3	40000	40400	101.0	40000	39800	99.5
Chromium	2000	2000	100.0	2000	2010	100.5	2000	1980	99.0
Cobalt	2000	2060	103.0	2000	2050	102.5	2000	2050	102.5
Copper	2000	2040	102.0	2000	2060	103.0	2000	2040	102.0
Iron	40000	39900	99.8	40000	39900	99.8	40000	39400	98.5
Lead	2000	2070	103.5	2000	2070	103.5	2000	2060	103.0
Lithium									
Magnesium	40000	40100	100.3	40000	39900	99.8	40000	39500	98.8
Manganese	2000	2060	103.0	2000	2050	102.5	2000	2020	101.0
Molybdenum	anr								
Nickel	2000	2070	103.5	2000	2070	103.5	2000	2050	102.5
Palladium									
Potassium	40000	39600	99.0	40000	40200	100.5	40000	39600	99.0
Selenium	2000	2010	100.5	2000	2040	102.0	2000	2020	101.0
Silicon									
Silver	250	254	101.6	250	255	102.0	250	252	100.8
Sodium	40000	40800	102.0	40000	40100	100.3	40000	40300	100.8
Sulfur									
Strontium									
Thallium	2000	2150	107.5	2000	2150	107.5	2000	2140	107.0
Tin									
Titanium	anr								
Tungsten									
Vanadium	2000	2020	101.0	2000	2010	100.5	2000	1990	99.5
Zinc	2000	2020	101.0	2000	2000	100.0	2000	1990	99.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA36629 Units: ug/l

Time:		20:07			21:11			22:15	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA36629 Units: ug/l

Time:		23:19			00:05			01:15	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39500	98.8	40000	39600	99.0	40000	39700	99.3
Antimony	2000	2090	104.5	2000	2090	104.5	2000	2100	105.0
Arsenic	2000	2020	101.0	2000	2020	101.0	2000	2030	101.5
Barium	2000	2010	100.5	2000	2030	101.5	2000	2040	102.0
Beryllium	2000	1990	99.5	2000	2010	100.5	2000	2010	100.5
Bismuth									
Boron	anr								
Cadmium	2000	2060	103.0	2000	2060	103.0	2000	2060	103.0
Calcium	40000	39900	99.8	40000	40100	100.3	40000	40200	100.5
Chromium	2000	2000	100.0	2000	2010	100.5	2000	2020	101.0
Cobalt	2000	2050	102.5	2000	2050	102.5	2000	2060	103.0
Copper	2000	2060	103.0	2000	2070	103.5	2000	2070	103.5
Iron	40000	39300	98.3	40000	39300	98.3	40000	39400	98.5
Lead	2000	2070	103.5	2000	2080	104.0	2000	2090	104.5
Lithium									
Magnesium	40000	39500	98.8	40000	39700	99.3	40000	39900	99.8
Manganese	2000	2060	103.0	2000	2070	103.5	2000	2090	104.5
Molybdenum	anr								
Nickel	2000	2060	103.0	2000	2070	103.5	2000	2080	104.0
Palladium									
Potassium	40000	39700	99.3	40000	40000	100.0	40000	40300	100.8
Selenium	2000	2010	100.5	2000	2000	100.0	2000	1990	99.5
Silicon									
Silver	250	255	102.0	250	255	102.0	250	254	101.6
Sodium	40000	40300	100.8	40000	40700	101.8	40000	41100	102.8
Sulfur									
Strontium									
Thallium	2000	2160	108.0	2000	2160	108.0	2000	2170	108.5
Tin									
Titanium	anr								
Tungsten									
Vanadium	2000	2020	101.0	2000	2030	101.5	2000	2050	102.5
Zinc	2000	1980	99.0	2000	1980	99.0	2000	1990	99.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA36629 Units: ug/l

Time:		23:19			00:05			01:15	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

12.3.4
12

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA36629 Units: ug/l

Time:		02:24			03:34			04:44	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39200	98.0	40000	39200	98.0	40000	39300	98.3
Antimony	2000	2100	105.0	2000	2090	104.5	2000	2100	105.0
Arsenic	2000	2030	101.5	2000	2020	101.0	2000	2030	101.5
Barium	2000	2020	101.0	2000	2020	101.0	2000	2040	102.0
Beryllium	2000	1980	99.0	2000	1970	98.5	2000	1990	99.5
Bismuth									
Boron	anr								
Cadmium	2000	2070	103.5	2000	2060	103.0	2000	2070	103.5
Calcium	40000	39600	99.0	40000	39500	98.8	40000	39700	99.3
Chromium	2000	2010	100.5	2000	2010	100.5	2000	2020	101.0
Cobalt	2000	2060	103.0	2000	2060	103.0	2000	2070	103.5
Copper	2000	2070	103.5	2000	2070	103.5	2000	2080	104.0
Iron	40000	38800	97.0	40000	38700	96.8	40000	38700	96.8
Lead	2000	2090	104.5	2000	2090	104.5	2000	2110	105.5
Lithium									
Magnesium	40000	39200	98.0	40000	39100	97.8	40000	39300	98.3
Manganese	2000	2090	104.5	2000	2090	104.5	2000	2110	105.5
Molybdenum	anr								
Nickel	2000	2090	104.5	2000	2090	104.5	2000	2100	105.0
Palladium									
Potassium	40000	40000	100.0	40000	40000	100.0	40000	40200	100.5
Selenium	2000	2000	100.0	2000	1980	99.0	2000	1970	98.5
Silicon									
Silver	250	254	101.6	250	253	101.2	250	254	101.6
Sodium	40000	40800	102.0	40000	41000	102.5	40000	41100	102.8
Sulfur									
Strontium									
Thallium	2000	2180	109.0	2000	2170	108.5	2000	2180	109.0
Tin									
Titanium	anr								
Tungsten									
Vanadium	2000	2040	102.0	2000	2040	102.0	2000	2060	103.0
Zinc	2000	2000	100.0	2000	2000	100.0	2000	2000	100.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA36629 Units: ug/l

Time:		02:24			03:34			04:44	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

12.3.4
12

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA36629 Units: ug/l

Time:		05:53			06:34	
Sample ID:	CCV	CCV12		CCV	CCV13	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39100	97.8	40000	39800	99.5
Antimony	2000	2100	105.0	2000	2120	106.0
Arsenic	2000	2050	102.5	2000	2060	103.0
Barium	2000	2040	102.0	2000	2070	103.5
Beryllium	2000	1980	99.0	2000	2010	100.5
Bismuth						
Boron	anr					
Cadmium	2000	2080	104.0	2000	2090	104.5
Calcium	40000	39600	99.0	40000	40100	100.3
Chromium	2000	2050	102.5	2000	2040	102.0
Cobalt	2000	2070	103.5	2000	2080	104.0
Copper	2000	2110	105.5	2000	2120	106.0
Iron	40000	38700	96.8	40000	39200	98.0
Lead	2000	2120	106.0	2000	2120	106.0
Lithium						
Magnesium	40000	39100	97.8	40000	39600	99.0
Manganese	2000	2140	107.0	2000	2130	106.5
Molybdenum	anr					
Nickel	2000	2110	105.5	2000	2120	106.0
Palladium						
Potassium	40000	40200	100.5	40000	40700	101.8
Selenium	2000	1980	99.0	2000	2000	100.0
Silicon						
Silver	250	258	103.2	250	259	103.6
Sodium	40000	41100	102.8	40000	41600	104.0
Sulfur						
Strontium						
Thallium	2000	2180	109.0	2000	2190	109.5
Tin						
Titanium	anr					
Tungsten						
Vanadium	2000	2080	104.0	2000	2080	104.0
Zinc	2000	2030	101.5	2000	2020	101.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA36629 Units: ug/l

Time:		05:53			06:34	
Sample ID:	CCV	CCV12		CCV	CCV13	
Metal	True	Results	% Rec	True	Results	% Rec
Zirconium						

(*) Outside of QC limits
(anr) Analyte not requested

12.3.4
12

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA36629 Units: ug/l

Time:				17:53		17:58		18:04	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1		CRIA1	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	200	500	100	199	99.5	88.7	88.7	513	102.6
Antimony	6.0	20	3.0	6.2	103.3	2.2	73.3	22.7	113.5
Arsenic	8.0	20	3.0	8.1	101.3	2.7	90.0	20.9	104.5
Barium	200		4.0	191	95.5	4.3	107.5		
Beryllium	2.0		1.0	2.0	100.0	1.0	100.0		
Bismuth	20								
Boron	100		10	anr					
Cadmium	3.0		1.0	3.0	100.0	0.90	90.0		
Calcium	5000	2000	1000	4860	97.2	984	98.4	2050	102.5
Chromium	10		2.0	11.3	113.0	2.8	140.0*(a		
Cobalt	50		3.0	51.5	103.0	3.2	106.7		
Copper	10		2.0	10.5	105.0	1.6U	0.0* (a)		
Iron	100	500		100	100.0			534	106.8
Lead	3.0	20	2.5	2.6	86.7	1.5U	0.0* (a)	21.7	108.5
Lithium	20								
Magnesium	5000	2000	100	4990	99.8	150	150.0*(a	2090	104.5
Manganese	15		3.0	15.8	105.3	3.1	103.3		
Molybdenum	20			anr					
Nickel	10		4.0	9.7	97.0	3.9	97.5		
Palladium	50								
Potassium	5000		2000	4910	98.2	1890	94.5		
Selenium	10	20	5.0	11.3	113.0	5.5	110.0	22.1	110.5
Silicon	200								
Silver	5.0		1.0	4.7	94.0	0.80	80.0		
Sodium	5000		1000	5160	103.2	1030	103.0		
Sulfur	50								
Strontium	10								
Thallium	10		2.0	11.7	117.0	1.9	95.0		
Tin	10								
Titanium	10			anr					
Tungsten	50								
Vanadium	50		2.0	50.6	101.2	1.9	95.0		
Zinc	20		10	21.7	108.5	11.7	117.0		

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA36629 Units: ug/l

Time:				17:53		17:58		18:04	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1		CRIA1	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Zirconium	10								

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples reported for this element at this RL in the area bracketed by this QC.

12.3.5
12

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA36629 Units: ug/l

Time:				21:05		23:30		23:36	
Sample ID:	CRI	CRIA	CRID	CRID2		CRI2		CRID3	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	200	500	100	94.1	94.1	203	101.5	86.7	86.7
Antimony	6.0	20	3.0	3.2	106.7	6.8	113.3	3.2	106.7
Arsenic	8.0	20	3.0	2.3	76.7	8.4	105.0	2.5	83.3
Barium	200		4.0	4.0	100.0	197	98.5	4.4	110.0
Beryllium	2.0		1.0	0.80	80.0	1.9	95.0	0.90	90.0
Bismuth	20								
Boron	100		10	anr					
Cadmium	3.0		1.0	1.0	100.0	3.2	106.7	1.1	110.0
Calcium	5000	2000	1000	980	98.0	4880	97.6	973	97.3
Chromium	10		2.0	2.7	135.0*(a	11.1	111.0	2.7	135.0*(a
Cobalt	50		3.0	2.9	96.7	51.3	102.6	3.1	103.3
Copper	10		2.0	1.8	90.0	11.5	115.0	2.1	105.0
Iron	100	500				118	118.0		
Lead	3.0	20	2.5	2.5	100.0	2.6	86.7	1.9	76.0
Lithium	20								
Magnesium	5000	2000	100	97.6	97.6	4930	98.6	103	103.0
Manganese	15		3.0	3.4	113.3	16.0	106.7	3.3	110.0
Molybdenum	20								
Nickel	10		4.0	3.9	97.5	9.7	97.0	3.9	97.5
Palladium	50								
Potassium	5000		2000	2030	101.5	5010	100.2	1930	96.5
Selenium	10	20	5.0	7.2	144.0*(a	11.6	116.0	6.6	132.0*(a
Silicon	200								
Silver	5.0		1.0	0.90	90.0	5.2	104.0	-0.40U	0.0* (a)
Sodium	5000		1000	1540	154.0*(a	5280	105.6	1130	113.0
Sulfur	50								
Strontium	10								
Thallium	10		2.0	2.0	100.0	12.4	124.0	2.1	105.0
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0	2.0	100.0	50.9	101.8	1.8	90.0
Zinc	20		10	11.7	117.0	21.2	106.0	11.6	116.0

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA36629 Units: ug/l

Time:				21:05		23:30		23:36	
Sample ID:	CRI	CRIA	CRID	CRID2		CRI2		CRID3	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Zirconium	10								

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples reported for this element at this RL in the area bracketed by this QC.

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA36629 Units: ug/l

Time:				23:42		06:05		06:11	
Sample ID:	CRI	CRIA	CRID	CRIA2		CRI3		CRID4	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	200	500	100	509	101.8	196	98.0	94.9	94.9
Antimony	6.0	20	3.0	23.1	115.5	7.2	120.0	3.6	120.0
Arsenic	8.0	20	3.0	20.2	101.0	8.1	101.3	2.5	83.3
Barium	200		4.0			199	99.5	4.4	110.0
Beryllium	2.0		1.0			2.2	110.0	0.90	90.0
Bismuth	20								
Boron	100		10						
Cadmium	3.0		1.0			3.1	103.3	1.0	100.0
Calcium	5000	2000	1000	2020	101.0	4840	96.8	966	96.6
Chromium	10		2.0			11.3	113.0	2.3	115.0
Cobalt	50		3.0			51.8	103.6	3.0	100.0
Copper	10		2.0			11.6	116.0	1.8	90.0
Iron	100	500		532	106.4	116	116.0		
Lead	3.0	20	2.5	21.3	106.5	3.0	100.0	2.1	84.0
Lithium	20								
Magnesium	5000	2000	100	2080	104.0	4850	97.0	141	141.0*(a
Manganese	15		3.0			16.6	110.7	3.5	116.7
Molybdenum	20								
Nickel	10		4.0			10.1	101.0	3.8	95.0
Palladium	50								
Potassium	5000		2000			5050	101.0	1970	98.5
Selenium	10	20	5.0	21.4	107.0	9.5	95.0	5.8	116.0
Silicon	200								
Silver	5.0		1.0			4.4	88.0	0.40U	0.0* (a)
Sodium	5000		1000			5300	106.0	1080	108.0
Sulfur	50								
Strontium	10								
Thallium	10		2.0			12.2	122.0	3.2	160.0*(a
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0			52.5	105.0	1.8	90.0
Zinc	20		10			21.6	108.0	12.2	122.0

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA36629 Units: ug/l

Time:				23:42		06:05		06:11	
Sample ID:	CRI	CRIA	CRID	CRIA2		CRI3		CRID4	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Zirconium	10								

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples reported for this element at this RL in the area bracketed by this QC.

12.3.5
12

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA36629 Units: ug/l

Time:				06:16	
Sample ID:	CRI	CRIA	CRID	CRIA3	
Metal	True	True	True	Results	% Rec
Aluminum	200	500	100	496	99.2
Antimony	6.0	20	3.0	23.9	119.5
Arsenic	8.0	20	3.0	20.9	104.5
Barium	200		4.0		
Beryllium	2.0		1.0		
Bismuth	20				
Boron	100		10		
Cadmium	3.0		1.0		
Calcium	5000	2000	1000	1990	99.5
Chromium	10		2.0		
Cobalt	50		3.0		
Copper	10		2.0		
Iron	100	500		519	103.8
Lead	3.0	20	2.5	21.8	109.0
Lithium	20				
Magnesium	5000	2000	100	2020	101.0
Manganese	15		3.0		
Molybdenum	20				
Nickel	10		4.0		
Palladium	50				
Potassium	5000		2000		
Selenium	10	20	5.0	20.8	104.0
Silicon	200				
Silver	5.0		1.0		
Sodium	5000		1000		
Sulfur	50				
Strontium	10				
Thallium	10		2.0		
Tin	10				
Titanium	10				
Tungsten	50				
Vanadium	50		2.0		
Zinc	20		10		

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA36629 Units: ug/l

Time:				06:16	
Sample ID:	CRI	CRIA	CRID	CRIA3	
Metal	True	True	True	Results	% Rec
Zirconium	10				

(*) Outside of QC limits
(anr) Analyte not requested

12.3.5

12

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA36629 Units: ug/l

Time:			18:16		18:22		23:48		23:54	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	501000	100.2	504000	100.8	497000	99.4	509000	101.8
Antimony		1000	0.10		952	95.2	-0.50		968	96.8
Arsenic		1000	2.3		1010	101.0	1.6		1010	101.0
Barium		500	-0.30		497	99.4	-0.50		515	103.0
Beryllium		500	0.0		506	101.2	-0.10		508	101.6
Bismuth		500	-4.0		429	85.8	-6.6		438	87.6
Boron			-0.80		2.3		-0.70		2.9	
Cadmium		1000	1.2		985	98.5	1.7		1000	100.0
Calcium	400000	400000	384000	96.0	386000	96.5	379000	94.8	387000	96.8
Chromium		500	5.1		496	99.2	5.3		507	101.4
Cobalt		500	1.2		482	96.4	1.7		485	97.0
Copper		500	1.2		468	93.6	2.7		493	98.6
Iron	200000	200000	195000	97.5	193000	96.5	189000	94.5	191000	95.5
Lead		1000	-2.2		954	95.4	-0.70		967	96.7
Lithium		500	16.0		567	113.4	14.5		573	114.6
Magnesium	500000	500000	466000	93.2	473000	94.6	452000	90.4	468000	93.6
Manganese		500	0.70		506	101.2	0.30		516	103.2
Molybdenum		500	-1.0		485	97.0	-1.4		480	96.0
Nickel		1000	-1.2		946	94.6	-0.90		955	95.5
Palladium		500	3.7		483	96.6	3.3		507	101.4
Potassium			11.1		-36		-58		13.8	
Selenium		1000	3.5		916	91.6	-2.1		919	91.9
Silicon			10.9		2.7		9.7		0.40	
Silver		1000	3.3		1080	108.0	3.6		1130	113.0
Sodium			25.8		51.4		205		208	
Sulfur		500	-2.0		481	96.2	6.0		493	98.6
Strontium			1.9		-8.8		2.6		-8.5	
Thallium		1000	1.9		907	90.7	0.90		921	92.1
Tin			-5.5		-5.2		-5.2		-4.7	
Titanium			3.1		3.9		3.9		3.8	
Tungsten		500	8.0		501	100.2	8.0		501	100.2
Vanadium		500	-1.3		498	99.6	-0.80		511	102.2
Zinc		1000	-3.5		981	98.1	-3.3		962	96.2

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA36629 Units: ug/l

Time:			18:16		18:22		23:48		23:54	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Zirconium		500	0.80		491	98.2	0.30		507	101.4

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA36629 Units: ug/l

Time:			06:22		06:28	
Sample ID:	ICSA	ICSAB	ICSA3		ICSAB3	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	500000	500000	501000	100.2	502000	100.4
Antimony		1000	1.1		974	97.4
Arsenic		1000	4.0		1020	102.0
Barium		500	0.0		519	103.8
Beryllium		500	0.10		499	99.8
Bismuth		500	-11		431	86.2
Boron			-0.80		3.4	
Cadmium		1000	1.3		1010	101.0
Calcium	400000	400000	380000	95.0	381000	95.3
Chromium		500	5.3		504	100.8
Cobalt		500	1.6		491	98.2
Copper		500	2.2		496	99.2
Iron	200000	200000	188000	94.0	187000	93.5
Lead		1000	-3.8		979	97.9
Lithium		500	15.5		570	114.0
Magnesium	500000	500000	455000	91.0	460000	92.0
Manganese		500	-0.30		520	104.0
Molybdenum		500	-1.1		483	96.6
Nickel		1000	-0.90		974	97.4
Palladium		500	6.3		503	100.6
Potassium			-54		-3.4	
Selenium		1000	-5.8		914	91.4
Silicon			9.6		0.50	
Silver		1000	2.7		1130	113.0
Sodium			81.4		61.6	
Sulfur		500	3.6		500	100.0
Strontium			3.0		-8.2	
Thallium		1000	1.4		932	93.2
Tin			-5.5		-5.8	
Titanium			4.0		4.2	
Tungsten		500	7.5		511	102.2
Vanadium		500	-0.60		513	102.6
Zinc		1000	-3.3		981	98.1

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: SC051115M2.ICP Date Analyzed: 05/11/15 Methods: EPA 200.7, SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA36629 Units: ug/l

Time:			06:22		06:28	
Sample ID:	ICSA	ICSAB	ICSA3		ICSAB3	
Metal	True	True	Results	% Rec	Results	% Rec
Zirconium		500	-0.70		510	102.0

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: H5051215W1.CSV Date Analyzed: 05/12/15 Methods: EPA 245.1, SW846 7470A
Analyst: JW Run ID: MA36632
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:00	MA36632-STD1	1		B=2.4195e-004,C=8.5200e-003,R=0.9999366
13:01	MA36632-STD2	1		STDB
13:02	MA36632-STD3	1		STDC
13:04	MA36632-STD4	1		STDD
13:05	MA36632-STD5	1		STDE
13:06	MA36632-STD6	1		STDF
13:11	MA36632-STD7	1		STDE
13:13	MA36632-ICV1	1		
13:15	MA36632-ICB1	1		
13:16	MA36632-ICCV1	1		
13:18	MA36632-CCB1	1		
13:19	MA36632-CRI1	1		
13:35	MP86395-MB1	1		
13:37	MP86395-LC1	1		
13:38	MP86395-S1	1		
13:40	MP86395-S2	1		
13:41	JB94217-1	1		(sample used for QC only; not part of login JB94209)
13:43	MP86398-LC1	1		
13:44	MP86398-MB1	1		
13:45	MP86398-S1	1		
13:47	MP86398-S2	1		
13:48	MA36632-CCV1	1		
13:50	MA36632-CCB2	1		
13:51	JB94209-13	1		
13:53	JB94209-14	1		
13:54	JB94209-15	1		
13:55	JB94209-16	1		
13:56	JB94209-17	1		
---------->	Last reportable sample/prep for job JB94209			
13:58	ZZZZZZ	1		
13:59	ZZZZZZ	1		
14:00	ZZZZZZ	1		
14:02	ZZZZZZ	1		
14:03	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: H5051215W1.CSV Date Analyzed: 05/12/15 Methods: EPA 245.1, SW846 7470A
Analyst: JW Run ID: MA36632
Parameters: Hg

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	14:04	MA36632-CCV2	1		
	14:05	MA36632-CCB3	1		
---------->	Last reportable CCB for job JB94209				
	14:07	ZZZZZZ	1		
	14:08	ZZZZZZ	1		
	14:10	ZZZZZZ	1		
	14:11	ZZZZZZ	1		
	14:12	ZZZZZZ	1		
	14:14	ZZZZZZ	1		
	14:15	ZZZZZZ	1		
	14:16	ZZZZZZ	1		
	14:17	ZZZZZZ	1		
	14:19	ZZZZZZ	1		
	14:20	MA36632-CCV3	1		
	14:21	MA36632-CCB4	1		
	14:23	MP86400-MB1	1		
	14:24	MP86400-LC1	1		
	14:25	MP86400-S1	1		
	14:27	MP86400-S2	1		
	14:29	JB94127-1	1		(sample used for QC only; not part of login JB94209)
	14:30	ZZZZZZ	1		
	14:31	ZZZZZZ	1		
	14:33	ZZZZZZ	1		
	14:34	ZZZZZZ	1		
	14:35	ZZZZZZ	1		
	14:37	MA36632-CCV4	1		
	14:38	MA36632-CCB5	1		
	14:39	ZZZZZZ	1		
	14:41	ZZZZZZ	1		
	14:42	ZZZZZZ	1		
	15:00	ZZZZZZ	1		
	15:01	ZZZZZZ	1		
	15:03	ZZZZZZ	1		
	15:04	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: H5051215W1.CSV Date Analyzed: 05/12/15 Methods: EPA 245.1, SW846 7470A
Analyst: JW Run ID: MA36632
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:05	ZZZZZZ	1		
15:07	ZZZZZZ	1		
15:08	ZZZZZZ	1		
15:09	MA36632-CCV5	1		
15:11	MA36632-CCB6	1		
15:12	ZZZZZZ	1		
15:13	ZZZZZZ	1		
15:15	MP86408-MB1	1		
15:16	MP86408-B1	1		
15:17	MP86408-S1	1		
15:19	MP86408-S2	1		
15:20	JB94320-4A	1		(sample used for QC only; not part of login JB94209)
15:22	ZZZZZZ	1		
15:23	ZZZZZZ	1		
15:24	MP86354-MB3	1		
15:26	MA36632-CCV6	1		
15:27	MA36632-CCB7	1		
15:29	MP86354-LC2	1		
15:30	ZZZZZZ	1		
15:31	MP86409-MB1	1		
15:33	MP86409-B1	1		
15:34	MP86409-S1	1		
15:36	MP86409-S2	1		
15:37	JB94370-1A	1		(sample used for QC only; not part of login JB94209)
15:39	MP86410-MB1	1		
15:40	MP86410-B1	1		
15:41	MP86410-S1	1		
15:43	MA36632-CCV7	1		
15:44	MA36632-CCB8	1		
15:46	MP86410-S2	1		
15:47	JB94319-1A	1		(sample used for QC only; not part of login JB94209)
15:57	MA36632-CCV8	1		
15:58	MA36632-CCB9	1		

Refer to raw data for calibration curve and standards.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: H5051215W1.CSV Date Analyzed: 05/12/15 Methods: EPA 245.1, SW846 7470A
QC Limits: result < RL Run ID: MA36632 Units: ug/l

Time:			13:15		13:18		13:50		14:05	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.023	-0.069	<0.20	-0.082	<0.20	-0.082	<0.20	-0.057	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: H5051215W1.CSV Date Analyzed: 05/12/15 Methods: EPA 245.1, SW846 7470A
QC Limits: 95 to 105 % Recovery Run ID: MA36632 Units: ug/l

Time:		13:16	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Mercury	2.5	2.5	100.0

(*) Outside of QC limits
(anr) Analyte not requested

12.4.2

12

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: H5051215W1.CSV Date Analyzed: 05/12/15 Methods: EPA 245.1, SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA36632 Units: ug/l

Time:		13:13			13:48			14:04	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3	2.9	96.7	2.5	2.4	96.0	2.5	2.5	100.0

(*) Outside of QC limits
(anr) Analyte not requested

12.4.3
12

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: H5051215W1.CSV Date Analyzed: 05/12/15 Methods: EPA 245.1, SW846 7470A
QC Limits: 70 to 130 % Recovery Run ID: MA36632 Units: ug/l

Time:			13:19	
Sample ID:	CRI	CRIA	CRI1	
Metal	True	True	Results	% Rec
Mercury	0.20		0.20	100.0

(*) Outside of QC limits
(anr) Analyte not requested

12.4.4
12

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: H7051215S1.CSV Date Analyzed: 05/12/15 Methods: SW846 7471B
Analyst: DP Run ID: MA36633
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:30	MA36633-STD1	1		B=1.3688e-004,C=-3.1515e-002,R=0.9999457
13:32	MA36633-STD2	1		STDB
13:33	MA36633-STD3	1		STDC
13:34	MA36633-STD4	1		STDD
13:36	MA36633-STD5	1		STDE
13:37	MA36633-STD6	1		STDF
13:40	MA36633-ICV1	1		
13:41	MA36633-ICB1	1		
13:43	MA36633-CCV1	1		
13:44	MA36633-CCB1	1		
13:45	MA36633-CRI1	1		
13:48	MP86396-MB1	1		
13:49	MP86396-LC1	2		
13:50	MP86396-S1	1		
13:52	MP86396-S2	1		
13:54	ZZZZZZ	1		
13:55	ZZZZZZ	1		
13:56	ZZZZZZ	1		
13:58	JB94400-4	1		(sample used for QC only; not part of login JB94209)
13:59	MA36633-CCV2	1		
14:00	MA36633-CCB2	1		
14:02	ZZZZZZ	1		
14:03	ZZZZZZ	1		
14:05	ZZZZZZ	1		
14:06	ZZZZZZ	1		
14:07	ZZZZZZ	1		
14:09	ZZZZZZ	1		
14:10	ZZZZZZ	1		
14:12	ZZZZZZ	1		
14:13	MA36633-CCV3	1		
14:15	MA36633-CCB3	1		
14:16	ZZZZZZ	1		
14:18	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: H7051215S1.CSV Date Analyzed: 05/12/15 Methods: SW846 7471B
Analyst: DP Run ID: MA36633
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:37	ZZZZZZ	10		
14:38	ZZZZZZ	1		
14:40	ZZZZZZ	10		
14:41	ZZZZZZ	10		
14:43	ZZZZZZ	1		
14:44	ZZZZZZ	1		
14:46	MP86397-MB1	1		
14:47	MA36633-CCV4	1		
14:48	MA36633-CCB4	1		
14:50	MP86397-LC1	2		
14:51	MP86397-S1	1		
14:53	MP86397-S2	1		
14:54	JB94209-2	1		
14:56	JB94209-1	1		
14:57	JB94209-3	1		
14:59	JB94209-4	1		
15:00	JB94209-5	1		
15:02	JB94209-6	1		
15:04	MA36633-CCV5	1		
15:05	MA36633-CCB5	1		
15:07	JB94209-7	1		
15:08	JB94209-8	1		
15:10	JB94209-9	1		
15:11	JB94209-10	1		
15:13	JB94209-11	1		
15:14	JB94209-12	1		
15:16	JB94209-18	1		
15:17	ZZZZZZ	1		
15:19	ZZZZZZ	10		
15:20	MA36633-CCV6	1		
15:21	MA36633-CCB6	1		
15:23	ZZZZZZ	20		
15:24	ZZZZZZ	20		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: H7051215S1.CSV Date Analyzed: 05/12/15 Methods: SW846 7471B
Analyst: DP Run ID: MA36633
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:26	ZZZZZZ	20		
15:27	ZZZZZZ	20		
15:28	ZZZZZZ	20		
15:32	ZZZZZZ	50		
15:33	ZZZZZZ	5		
15:35	ZZZZZZ	5		
15:36	JB94209-5	5		
15:38	MA36633-CCV7	1		
15:39	MA36633-CCB7	1		
15:41	JB94209-7	10		
---------->	Last reportable sample/prep for job JB94209			
15:42	ZZZZZZ	1		
15:44	ZZZZZZ	1		
15:45	ZZZZZZ	1		
15:47	ZZZZZZ	2		
15:49	ZZZZZZ	1		
15:50	ZZZZZZ	2		
15:58	MA36633-CCV8	1		
15:59	MA36633-CCB8	1		
---------->	Last reportable CCB for job JB94209			

Refer to raw data for calibration curve and standards.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: H7051215S1.CSV Date Analyzed: 05/12/15 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA36633 Units: ug/l

Time:			13:41		13:44		14:00		14:15	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.034	-0.0048	<0.20	-0.0062	<0.20	-0.0037	<0.20	-0.0084	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: H7051215S1.CSV Date Analyzed: 05/12/15 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA36633 Units: ug/l

Time:			14:48		15:05		15:21		15:39	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.034	-0.0065	<0.20	0.0028	<0.20	-0.0024	<0.20	-0.0091	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: H7051215S1.CSV Date Analyzed: 05/12/15 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA36633 Units: ug/l

Time:			15:59	
Sample ID:			CCB8	
Metal	RL	IDL	raw	final
Mercury	0.20	.034	0.0015	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

12.5.1
12

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: H7051215S1.CSV Date Analyzed: 05/12/15 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA36633 Units: ug/l

Time:		13:40			13:43			13:59	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3	2.9	96.7	2.5	2.5	100.0	2.5	2.5	100.0

(*) Outside of QC limits
(anr) Analyte not requested

12.5.2
12

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: H7051215S1.CSV Date Analyzed: 05/12/15 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA36633 Units: ug/l

Time:		14:13			14:47			15:04	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.5	100.0	2.5	2.5	100.0	2.5	2.4	96.0

(*) Outside of QC limits
(anr) Analyte not requested

12.5.2
12

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: H7051215S1.CSV Date Analyzed: 05/12/15 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA36633 Units: ug/l

Time:		15:20			15:38			15:58	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.5	100.0	2.5	2.5	100.0	2.5	2.5	100.0

(*) Outside of QC limits
(anr) Analyte not requested

12.5.2
12

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

File ID: H7051215S1.CSV Date Analyzed: 05/12/15 Methods: SW846 7471B
QC Limits: 70 to 130 % Recovery Run ID: MA36633 Units: ug/l

Time:			13:45	
Sample ID:	CRI	CRIA	CRI1	
Metal	True	True	Results	% Rec
Mercury	0.20		0.20	100.0

(*) Outside of QC limits
(anr) Analyte not requested

12.5.3

12

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

QC Batch ID: MP86343
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/09/15

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	22	33	-3.3	<200
Antimony	6.0	1.7	3	1.6	<6.0
Arsenic	3.0	1.2	1.2	0.70	<3.0
Barium	200	.4	.8	-0.20	<200
Beryllium	1.0	.3	.35	-0.20	<1.0
Bismuth	20	3.2	4.2		
Boron	100	1.6	4.4		
Cadmium	3.0	.3	.25	-0.10	<3.0
Calcium	5000	29	23	14.0	<5000
Chromium	10	.9	.6	0.80	<10
Cobalt	50	.3	.3	-0.10	<50
Copper	10	1.8	1.9	0.70	<10
Iron	100	9.4	6.9	-4.7	<100
Lead	3.0	1.6	1.7	0.10	<3.0
Lithium	20	3.5	3.8		
Magnesium	5000	47	49	-34	<5000
Manganese	15	.5	.17	0.90	<15
Molybdenum	20	.8	.85		
Nickel	10	.4	.61	-0.30	<10
Palladium	50	4.2	4.5		
Potassium	10000	71	62	161	<10000
Selenium	10	2.4	2.2	0.70	<10
Silicon	200	5.1	22		
Silver	10	1.5	.95	0.0	<10
Sodium	10000	26	35	660	<10000
Sulfur	50	28	7.2		
Strontium	10	.4	.36		
Thallium	2.0	1.3	1.6	-0.40	<2.0
Tin	10	.7	1.4		
Titanium	10	1	.86		
Tungsten	50	1.8	5.6		
Vanadium	50	.7	.49	0.30	<50
Zinc	20	1.4	4.9	1.1	<20

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

QC Batch ID: MP86343 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 05/09/15

Metal	RL	IDL	MDL	MB raw	final
Zirconium	10	.7	.7		

Associated samples MP86343: JB94209-13, JB94209-14, JB94209-15, JB94209-16, JB94209-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

QC Batch ID: MP86343
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/09/15

Metal	JB94170-4 Original	MS	Spikelot MPSPK	% Rec	QC Limits
Aluminum	716	26500	25000	103.1	75-125
Antimony	0.0	2030	2000	101.5	75-125
Arsenic	0.0	2030	2000	101.5	75-125
Barium	195	2250	2000	102.7	75-125
Beryllium	0.0	2050	2000	102.5	75-125
Bismuth					
Boron					
Cadmium	0.30	2040	2000	102.0	75-125
Calcium	88300	111000	25000	88.4	75-125
Chromium	2.3	2020	2000	100.9	75-125
Cobalt	4.0	2050	2000	102.3	75-125
Copper	7.4	2020	2000	100.6	75-125
Iron	9740	34500	25000	99.0	75-125
Lead	3.6	2050	2000	102.3	75-125
Lithium					
Magnesium	19700	43800	25000	96.0	75-125
Manganese	2590	4500	2000	95.5	75-125
Molybdenum					
Nickel	12.9	2060	2000	102.4	75-125
Palladium					
Potassium	7550	32700	25000	101.1	75-125
Selenium	4.0	2040	2000	101.8	75-125
Silicon					
Silver	4.5	254	250	99.8	75-125
Sodium	84000	107000	25000	92.0	75-125
Sulfur					
Strontium					
Thallium	0.0	2060	2000	103.0	75-125
Tin					
Titanium					
Tungsten					
Vanadium	2.0	2050	2000	102.4	75-125
Zinc	16.2	2030	2000	100.7	75-125

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

QC Batch ID: MP86343 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 05/09/15

Metal	JB94170-4 Original MS	Spikelot MPSPK	% Rec	QC Limits
Zirconium				

Associated samples MP86343: JB94209-13, JB94209-14, JB94209-15, JB94209-16, JB94209-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

QC Batch ID: MP86343
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/09/15

Metal	JB94170-4 Original	MSD	Spikelot MPSPK	% Rec	MSD RPD	QC Limit
Aluminum	716	26300	25000	102.3	0.8	20
Antimony	0.0	2000	2000	100.0	1.5	20
Arsenic	0.0	2000	2000	100.0	1.5	20
Barium	195	2230	2000	101.7	0.9	20
Beryllium	0.0	2020	2000	101.0	1.5	20
Bismuth						
Boron						
Cadmium	0.30	2010	2000	100.5	1.5	20
Calcium	88300	108000	25000	76.4	2.7	20
Chromium	2.3	2020	2000	100.9	0.0	20
Cobalt	4.0	2030	2000	101.3	1.0	20
Copper	7.4	2010	2000	100.1	0.5	20
Iron	9740	34000	25000	97.0	1.5	20
Lead	3.6	2040	2000	101.8	0.5	20
Lithium						
Magnesium	19700	42900	25000	92.4	2.1	20
Manganese	2590	4400	2000	90.5	2.2	20
Molybdenum						
Nickel	12.9	2050	2000	101.9	0.5	20
Palladium						
Potassium	7550	32200	25000	99.1	1.5	20
Selenium	4.0	2020	2000	100.8	1.0	20
Silicon						
Silver	4.5	254	250	99.8	0.0	20
Sodium	84000	104000	25000	80.0	2.8	20
Sulfur						
Strontium						
Thallium	0.0	2050	2000	102.5	0.5	20
Tin						
Titanium						
Tungsten						
Vanadium	2.0	2040	2000	101.9	0.5	20
Zinc	16.2	2010	2000	99.7	1.0	20

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

QC Batch ID: MP86343 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 05/09/15

Metal	JB94170-4 Original MSD	Spikelot MPSPK	% Rec	MSD RPD	QC Limit
Zirconium					

Associated samples MP86343: JB94209-13, JB94209-14, JB94209-15, JB94209-16, JB94209-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

QC Batch ID: MP86343
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/09/15

Metal	BSP Result	Spikelot MPSPK	% Rec	QC Limits
Aluminum	25100	25000	100.4	80-120
Antimony	2070	2000	103.5	80-120
Arsenic	1970	2000	98.5	80-120
Barium	1990	2000	99.5	80-120
Beryllium	2000	2000	100.0	80-120
Bismuth				
Boron				
Cadmium	2020	2000	101.0	80-120
Calcium	25400	25000	101.6	80-120
Chromium	2000	2000	100.0	80-120
Cobalt	2030	2000	101.5	80-120
Copper	2000	2000	100.0	80-120
Iron	25200	25000	100.8	80-120
Lead	2040	2000	102.0	80-120
Lithium				
Magnesium	25300	25000	101.2	80-120
Manganese	2020	2000	101.0	80-120
Molybdenum				
Nickel	2020	2000	101.0	80-120
Palladium				
Potassium	24900	25000	99.6	80-120
Selenium	1980	2000	99.0	80-120
Silicon				
Silver	250	250	100.0	80-120
Sodium	25500	25000	102.0	80-120
Sulfur				
Strontium				
Thallium	2150	2000	107.5	80-120
Tin				
Titanium				
Tungsten				
Vanadium	1970	2000	98.5	80-120
Zinc	1970	2000	98.5	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

QC Batch ID: MP86343
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/09/15

Metal	BSP Result	Spikelot MPSPK	% Rec	QC Limits
Zirconium				

Associated samples MP86343: JB94209-13, JB94209-14, JB94209-15, JB94209-16, JB94209-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

QC Batch ID: MP86343
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/09/15

Metal	JB94170-4 Original	SDL 1:5	%DIF	QC Limits
Aluminum	716	748	21.7*(a)	0-10
Antimony	0.00	11.3	NC	0-10
Arsenic	0.00	0.00	NC (b)	0-10
Barium	197	198	1.5	0-10
Beryllium	0.00	0.00	NC	0-10
Bismuth				
Boron				
Cadmium	0.300	0.00	100.0(b)	0-10
Calcium	88300	90600	2.6	0-10
Chromium	2.40	3.50	45.8 (b)	0-10
Cobalt	3.80	2.80	30.0 (b)	0-10
Copper	7.40	10.6	68.3 (b)	0-10
Iron	9370	10000	7.1	0-10
Lead	3.60	6.90	64.3 (b)	0-10
Lithium				
Magnesium	19800	20700	5.3	0-10
Manganese	2590	2660	4.4	0-10
Molybdenum				
Nickel	13.1	13.7	4.6	0-10
Palladium				
Potassium	7550	7960	5.4	0-10
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	2.80	7.40	164.3(b)	0-10
Sodium	83700	86600	3.5	0-10
Sulfur				
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Tungsten				
Vanadium	1.50	2.90	45.0 (b)	0-10
Zinc	16.6	48.8	194.0(b)	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

QC Batch ID: MP86343 | Methods: SW846 6010C
Matrix Type: AQUEOUS | Units: ug/l

Prep Date: 05/09/15

Metal	JB94170-4 Original SDL 1:5	%DIF	QC Limits
Zirconium			

Associated samples MP86343: JB94209-13, JB94209-14, JB94209-15, JB94209-16, JB94209-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Serial dilution indicates possible matrix interference.
(b) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

QC Batch ID: MP86349
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/09/15

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	2.2	3.2	1.9	<50
Antimony	2.0	.17	.31	0.12	<2.0
Arsenic	2.0	.12	.13	0.079	<2.0
Barium	20	.04	.053	0.17	<20
Beryllium	0.20	.03	.041	0.030	<0.20
Bismuth	2.0	.32	.37		
Boron	9.9	.16	.42		
Cadmium	0.50	.03	.042	0.030	<0.50
Calcium	500	2.9	2.5	26.9	<500
Chromium	0.99	.089	.098	0.15	<0.99
Cobalt	5.0	.03	.04	0.020	<5.0
Copper	2.5	.18	.14	0.29	<2.5
Iron	50	.93	3.3	6.5	<50
Lead	2.0	.16	.17	0.040	<2.0
Lithium	2.0	.35	.33		
Magnesium	500	4.7	8.9	7.5	<500
Manganese	1.5	.05	.036	0.099	<1.5
Molybdenum	2.0	.079	.15		
Nickel	4.0	.04	.05	0.030	<4.0
Palladium	5.0	.42	.35		
Potassium	990	7	7.3	7.5	<990
Selenium	2.0	.24	.23	0.34	<2.0
Silicon	20	.5	1.7		
Silver	0.50	.15	.18	0.0099	<0.50
Sodium	990	2.5	1.5	32.9	<990
Strontium	0.99	.04	.025		
Sulfur	5.0	2.8	.69		
Thallium	0.99	.13	.19	-0.099	<0.99
Tin	5.0	.069	1.1		
Titanium	0.99	.099	.21		
Tungsten	5.0	.18	.43		
Vanadium	5.0	.069	.073	0.069	<5.0
Zinc	5.0	.14	.76	0.50	<5.0

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

QC Batch ID: MP86349 | Methods: SW846 6010C
Matrix Type: SOLID | Units: mg/kg

Prep Date: 05/09/15

Metal	RL	IDL	MDL	MB raw	final
Zirconium	2.0	.069	.11		

Associated samples MP86349: JB94209-1, JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-9, JB94209-10, JB94209-11, JB94209-12, JB94209-18

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

QC Batch ID: MP86349
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/09/15

Metal	JB93689-1 Original	MS	Spikelot MPSPK	% Rec	QC Limits
Aluminum	5340	7190	3250	56.8N(a)	75-125
Antimony	1.4	223	260	85.1	75-125
Arsenic	5.2	238	260	89.4	75-125
Barium	81.4	331	260	95.9	75-125
Beryllium	0.35	244	260	93.6	75-125
Bismuth					
Boron					
Cadmium	1.3	247	260	94.4	75-125
Calcium	8920	10200	3250	39.3N(a)	75-125
Chromium	33.9	269	260	90.3	75-125
Cobalt	9.0	248	260	91.8	75-125
Copper	80.9	353	260	104.5	75-125
Iron	17100	20900	3250	116.8	75-125
Lead	166	410	260	93.7	75-125
Lithium					
Magnesium	3250	4560	3250	40.3N(a)	75-125
Manganese	185	403	260	83.7	75-125
Molybdenum					
Nickel	31.2	275	260	93.6	75-125
Palladium					
Potassium	796	3800	3250	92.3	75-125
Selenium	0.0	235	260	90.3	75-125
Silicon					
Silver	0.71	31.6	32.5	94.9	75-125
Sodium	757	3360	3250	80.0	75-125
Strontium					
Sulfur					
Thallium	0.0	251	260	96.4	75-125
Tin					
Titanium					
Tungsten					
Vanadium	14.4	254	260	92.0	75-125
Zinc	322	648	260	125.2N(a	75-125

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

QC Batch ID: MP86349 Methods: SW846 6010C
Matrix Type: SOLID Units: mg/kg

Prep Date: 05/09/15

Metal	JB93689-1 Original MS	Spikelot MPSPK	% Rec	QC Limits
Zirconium				

Associated samples MP86349: JB94209-1, JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-9, JB94209-10, JB94209-11, JB94209-12, JB94209-18

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

QC Batch ID: MP86349
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/09/15

Metal	JB93689-1 Original	MSD	Spikelot MPSPK	% Rec	MSD RPD	QC Limit
Aluminum	5340	7650	3160	73.1N(a)	6.2	20
Antimony	1.4	216	253	84.9	3.2	20
Arsenic	5.2	244	253	94.5	2.5	20
Barium	81.4	313	253	91.7	5.6	20
Beryllium	0.35	246	253	97.2	0.8	20
Bismuth						
Boron						
Cadmium	1.3	244	253	96.1	1.2	20
Calcium	8920	40200	3160	990.3N(a	119.0 (b)	20
Chromium	33.9	266	253	91.9	1.1	20
Cobalt	9.0	251	253	95.8	1.2	20
Copper	80.9	312	253	91.5	12.3	20
Iron	17100	17500	3160	12.7 (c)	17.7	20
Lead	166	364	253	78.4	11.9	20
Lithium						
Magnesium	3250	22800	3160	619.0N(a	133.3 (b)	20
Manganese	185	406	253	87.5	0.7	20
Molybdenum						
Nickel	31.2	293	253	103.6	6.3	20
Palladium						
Potassium	796	4050	3160	103.0	6.4	20
Selenium	0.0	237	253	93.8	0.8	20
Silicon						
Silver	0.71	31.3	31.6	96.9	1.0	20
Sodium	757	3610	3160	90.3	7.2	20
Strontium						
Sulfur						
Thallium	0.0	244	253	96.6	2.8	20
Tin						
Titanium						
Tungsten						
Vanadium	14.4	260	253	97.2	2.3	20
Zinc	322	469	253	58.2N(a)	32.1 (b)	20

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

QC Batch ID: MP86349 Methods: SW846 6010C
Matrix Type: SOLID Units: mg/kg

Prep Date: 05/09/15

Metal	JB93689-1 Original MSD	Spikelot MPSPK	% Rec	MSD RPD	QC Limit
Zirconium					

Associated samples MP86349: JB94209-1, JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-9, JB94209-10, JB94209-11, JB94209-12, JB94209-18

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(b) High rpd due to possible sample nonhomogeneity.
(c) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

QC Batch ID: MP86349
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/09/15

Metal	BSP Result	Spikelot MPSPK	% Rec	QC Limits
Aluminum	2350	2530	93.1	80-120
Antimony	189	202	93.6	80-120
Arsenic	181	202	89.6	80-120
Barium	188	202	93.1	80-120
Beryllium	189	202	93.6	80-120
Bismuth				
Boron				
Cadmium	189	202	93.6	80-120
Calcium	2410	2530	95.4	80-120
Chromium	186	202	92.1	80-120
Cobalt	190	202	94.1	80-120
Copper	191	202	94.5	80-120
Iron	2360	2530	93.5	80-120
Lead	193	202	95.5	80-120
Lithium				
Magnesium	2360	2530	93.5	80-120
Manganese	190	202	94.1	80-120
Molybdenum				
Nickel	190	202	94.1	80-120
Palladium				
Potassium	2350	2530	93.1	80-120
Selenium	181	202	89.6	80-120
Silicon				
Silver	23.5	25.3	93.1	80-120
Sodium	2410	2530	95.4	80-120
Strontium				
Sulfur				
Thallium	203	202	100.5	80-120
Tin				
Titanium				
Tungsten				
Vanadium	185	202	91.6	80-120
Zinc	182	202	90.1	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

QC Batch ID: MP86349
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/09/15

Metal	BSP Result	Spikelot MPSPK	% Rec	QC Limits
Zirconium				

Associated samples MP86349: JB94209-1, JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-9, JB94209-10, JB94209-11, JB94209-12, JB94209-18

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

QC Batch ID: MP86349
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/09/15

Metal	JB93689-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	39300	41300	5.0	0-10
Antimony	10.3	16.1	56.3 (a)	0-10
Arsenic	38.5	40.1	4.2	0-10
Barium	600	627	4.5	0-10
Beryllium	2.60	2.60	0.0	0-10
Bismuth				
Boron				
Cadmium	9.30	9.70	4.3	0-10
Calcium	65800	69600	5.8	0-10
Chromium	250	264	5.7	0-10
Cobalt	66.6	70.2	5.4	0-10
Copper	596	627	5.1	0-10
Iron	126000	134000	6.8	0-10
Lead	1230	1300	5.7	0-10
Lithium				
Magnesium	24000	25400	6.0	0-10
Manganese	1360	1430	4.8	0-10
Molybdenum				
Nickel	230	239	4.1	0-10
Palladium				
Potassium	5870	5930	1.1	0-10
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	5.20	0.00	100.0(a)	0-10
Sodium	5580	6030	8.1	0-10
Strontium				
Sulfur				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Tungsten				
Vanadium	106	110	3.5	0-10
Zinc	2380	2510	5.6	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

QC Batch ID: MP86349 Methods: SW846 6010C
Matrix Type: SOLID Units: ug/l

Prep Date: 05/09/15

Metal	JB93689-1 Original SDL 1:5	%DIF	QC Limits
Zirconium			

Associated samples MP86349: JB94209-1, JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-9, JB94209-10, JB94209-11, JB94209-12, JB94209-18

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

QC Batch ID: MP86397 | Methods: SW846 7471B
Matrix Type: SOLID | Units: mg/kg

Prep Date: 05/12/15

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.033	.0056	.0019	-0.0029	<0.033

Associated samples MP86397: JB94209-1, JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-9, JB94209-10, JB94209-11, JB94209-12, JB94209-18

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

QC Batch ID: MP86397 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 05/12/15

Metal	JB94209-2 Original	MS	Spikelot HGPWS1	% Rec	QC Limits
Mercury	0.037	0.43	0.379	103.7	75-125

Associated samples MP86397: JB94209-1, JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-9, JB94209-10, JB94209-11, JB94209-12, JB94209-18

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

QC Batch ID: MP86397
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 05/12/15

Metal	JB94209-2 Original	MSD	Spikelot HGPWS1	% Rec	MSD RPD	QC Limit
Mercury	0.037	0.42	0.395	96.9	2.4	20

Associated samples MP86397: JB94209-1, JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-9, JB94209-10, JB94209-11, JB94209-12, JB94209-18

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

QC Batch ID: MP86397
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 05/12/15

Metal	LCS Result	Spikelot HGLCS54082	% Rec	QC Limits
Mercury	5.5	5.76	95.5	71-129

Associated samples MP86397: JB94209-1, JB94209-2, JB94209-3, JB94209-4, JB94209-5, JB94209-6, JB94209-7, JB94209-8, JB94209-9, JB94209-10, JB94209-11, JB94209-12, JB94209-18

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

QC Batch ID: MP86398
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 05/12/15

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.023	.069	-0.025	<0.20

Associated samples MP86398: JB94209-13, JB94209-14, JB94209-15, JB94209-16, JB94209-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

QC Batch ID: MP86398 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 05/12/15

Metal	JB94209-13 Original	MS	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.046	2.0	2	97.7	75-125

Associated samples MP86398: JB94209-13, JB94209-14, JB94209-15, JB94209-16, JB94209-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

QC Batch ID: MP86398
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 05/12/15

Metal	JB94209-13 Original	MSD	Spikelot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.046	2.1	2	102.7	4.9	20

Associated samples MP86398: JB94209-13, JB94209-14, JB94209-15, JB94209-16, JB94209-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JB94209
Account: PTCNJB - PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

QC Batch ID: MP86398
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 05/12/15

Metal	LCS Result	Spikelot HGPW3	% Rec	QC Limits
Mercury	2.2	2	110.0	80-120

Associated samples MP86398: JB94209-13, JB94209-14, JB94209-15, JB94209-16, JB94209-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

New Jersey

ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: JB94209-1 **Analyzed:** 08-MAY-15 by KP **Method:** SM2540 G-97
ClientID: SB1-1

Wet Weight (Total)	30.26	g
Tare Weight	22.59	g
Dry Weight (Total)	29.3	g
Solids, Percent	87.5	%

Sample: JB94209-2 **Analyzed:** 08-MAY-15 by KP **Method:** SM2540 G-97
ClientID: SB1-2

Wet Weight (Total)	36.72	g
Tare Weight	27.66	g
Dry Weight (Total)	35.29	g
Solids, Percent	84.2	%

Sample: JB94209-3 **Analyzed:** 08-MAY-15 by KP **Method:** SM2540 G-97
ClientID: SB2-1

Wet Weight (Total)	26.64	g
Tare Weight	19.57	g
Dry Weight (Total)	25.51	g
Solids, Percent	84	%

Sample: JB94209-4 **Analyzed:** 08-MAY-15 by KP **Method:** SM2540 G-97
ClientID: SB2-2

Wet Weight (Total)	25.71	g
Tare Weight	19.49	g
Dry Weight (Total)	24.72	g
Solids, Percent	84.1	%

Sample: JB94209-5 **Analyzed:** 08-MAY-15 by KP **Method:** SM2540 G-97
ClientID: SB3-1

Wet Weight (Total)	27.86	g
Tare Weight	19.21	g
Dry Weight (Total)	26.79	g
Solids, Percent	87.6	%

Sample: JB94209-6 **Analyzed:** 08-MAY-15 by KP **Method:** SM2540 G-97
ClientID: SB3-2

Wet Weight (Total)	35.56	g
Tare Weight	27.33	g
Dry Weight (Total)	34.68	g
Solids, Percent	89.3	%

Percent Solids Raw Data Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: JB94209-7 **Analyzed:** 08-MAY-15 by KP **Method:** SM2540 G-97
ClientID: SB4-1

Wet Weight (Total)	31.45	g
Tare Weight	21.71	g
Dry Weight (Total)	30.19	g
Solids, Percent	87.1	%

Sample: JB94209-8 **Analyzed:** 08-MAY-15 by KP **Method:** SM2540 G-97
ClientID: SB4-2

Wet Weight (Total)	34.95	g
Tare Weight	25.98	g
Dry Weight (Total)	33.59	g
Solids, Percent	84.8	%

Sample: JB94209-9 **Analyzed:** 08-MAY-15 by KP **Method:** SM2540 G-97
ClientID: SB5-1

Wet Weight (Total)	26.58	g
Tare Weight	18.71	g
Dry Weight (Total)	26.03	g
Solids, Percent	93	%

Sample: JB94209-10 **Analyzed:** 08-MAY-15 by KP **Method:** SM2540 G-97
ClientID: SB5-2

Wet Weight (Total)	31.9	g
Tare Weight	24.44	g
Dry Weight (Total)	31.02	g
Solids, Percent	88.2	%

Sample: JB94209-11 **Analyzed:** 08-MAY-15 by KP **Method:** SM2540 G-97
ClientID: SB6-1

Wet Weight (Total)	27.46	g
Tare Weight	19.51	g
Dry Weight (Total)	26.9	g
Solids, Percent	93	%

Sample: JB94209-12 **Analyzed:** 08-MAY-15 by KP **Method:** SM2540 G-97
ClientID: SB6-2

Wet Weight (Total)	32.78	g
Tare Weight	27.02	g
Dry Weight (Total)	32.32	g
Solids, Percent	92	%

Percent Solids Raw Data Summary

Job Number: JB94209
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: JB94209-18 **Analyzed:** 08-MAY-15 by KP **Method:** SM2540 G-97
ClientID: SB5-2 DUP

Wet Weight (Total)	36.79	g
Tare Weight	28.1	g
Dry Weight (Total)	35.04	g
Solids, Percent	79.9	%

APPENDIX 8

LABORATORY DATA DELIVERABLES FOR SOIL VAPOR ANALYTICAL DATA

New Jersey
ACCUTEST LABORATORIES

05/14/15

Technical Report for

PT Consultants

12090-02 430 Van Brunt Street, Brooklyn, NY

Accutest Job Number: JB94203

Sampling Date: 05/07/15

Report to:

PT Consultants
629 Creek Road
Bellmawr, NJ 08031
bradsummerville@ptconsultantsinc.com

ATTN: Brad Summerville

Total number of pages in report: **733**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Kelly Patterson 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

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Table of Contents

-1-

Section 1: Sample Summary **3**
Section 2: Case Narrative/Conformance Summary **4**
Section 3: Summary of Hits **5**
Section 4: Sample Results **12**
- **4.1:** JB94203-1: SV-1 13
- **4.2:** JB94203-2: SV-2 16
- **4.3:** JB94203-3: SV-3 19
- **4.4:** JB94203-4: SV-4 22
- **4.5:** JB94203-5: SV-5 25

Section 5: Misc. Forms **28**
- **5.1:** Chain of Custody 29
- **5.2:** Summa Canister and Flow Controller Log 31
- **5.3:** Sample Tracking Chronicle 32
- **5.4:** Internal Chain of Custody 33
- **5.5:** 2015 MDL Study - Method: TO-15 35

Section 6: GC/MS Volatiles - QC Data Summaries **39**
- **6.1:** Method Blank Summary 40
- **6.2:** Blank Spike/Blank Spike Duplicate Summary 52
- **6.3:** Duplicate Summary 64
- **6.4:** Summa Cleaning Certification 70
- **6.5:** Instrument Performance Checks (BFB) 76
- **6.6:** Internal Standard Area Summaries 86
- **6.7:** Initial Calibration RT/ISTD Area Summaries 92
- **6.8:** Surrogate Recovery Summaries 177
- **6.9:** Initial and Continuing Calibration Summaries 178

Section 7: GC/MS Volatiles - Raw Data **216**
- **7.1:** Samples 217
- **7.2:** Method Blanks 385
- **7.3:** Blank Spike/Blank Spike Duplicates 397
- **7.4:** Duplicates 447
- **7.5:** Summa Cleaning Certifications 502
- **7.6:** Instrument Performance Checks (BFB) 506
- **7.7:** Initial and Continuing Calibarations 523
- **7.8:** Instrument Run Logs 718

Accutest Laboratories

Sample Summary

PT Consultants

Job No: JB94203

12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB94203-1	05/07/15	12:22	DL	05/07/15	AIR	Soil Vapor Comp.	SV-1
JB94203-2	05/07/15	12:53	DL	05/07/15	AIR	Soil Vapor Comp.	SV-2
JB94203-3	05/07/15	13:13	DL	05/07/15	AIR	Soil Vapor Comp.	SV-3
JB94203-4	05/07/15	15:32	DL	05/07/15	AIR	Soil Vapor Comp.	SV-4
JB94203-5	05/07/15	15:54	DL	05/07/15	AIR	Soil Vapor Comp.	SV-5

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	PT Consultants	**Job No**	JB94203
Site:	12090-02 430 Van Brunt Street, Brooklyn, NY	**Report Date**	5/14/2015 5:11:08 PM

On 05/07/2015, 5 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB94203 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method TO-15

Matrix: AIR **Batch ID:** V5W449

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB94203-1DUP were used as the QC samples indicated.
- Sample(s) JB94203-1 have compounds reported with "E" qualifiers indicating estimated value exceeding calibration range. Estimated value; Summa unavailable for further dilution due to summa accidentally cleaned.
- RPD(s) for Duplicate for Propylene are outside control limits for sample JB94203-1DUP. Outside in house control limits.

Matrix: AIR **Batch ID:** V5W450

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB94245-1DUP were used as the QC samples indicated.
- JB94203-2: Confirmation run.

Matrix: AIR **Batch ID:** V5W451

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB94388-4DUP were used as the QC samples indicated.

Matrix: AIR **Batch ID:** V5W452

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB94453-1DUP were used as the QC samples indicated.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JB94203
Account: PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Collected: 05/07/15

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB94203-1	**SV-1**					
Acetone [a]		177 E	0.80	0.13	ppbv	TO-15
Benzene		3.1	0.80	0.12	ppbv	TO-15
Carbon disulfide		8.7	0.80	0.11	ppbv	TO-15
Chloroethane		0.43 J	0.80	0.086	ppbv	TO-15
Chloroform		0.39 J	0.80	0.12	ppbv	TO-15
Chloromethane		0.60 J	0.80	0.12	ppbv	TO-15
Cyclohexane		2.8	0.80	0.13	ppbv	TO-15
1,1-Dichloroethane		5.0	0.80	0.12	ppbv	TO-15
Dichlorodifluoromethane		1.3	0.80	0.15	ppbv	TO-15
cis-1,2-Dichloroethylene		2.1	0.80	0.099	ppbv	TO-15
Ethanol		8.0	2.0	0.66	ppbv	TO-15
Ethylbenzene		3.2	0.80	0.19	ppbv	TO-15
Ethyl Acetate		1.9	0.80	0.25	ppbv	TO-15
4-Ethyltoluene		0.77 J	0.80	0.088	ppbv	TO-15
Heptane		5.5	0.80	0.12	ppbv	TO-15
Hexane		14.5	0.80	0.11	ppbv	TO-15
Isopropyl Alcohol		2.6	0.80	0.48	ppbv	TO-15
Methylene chloride		3.6	0.80	0.54	ppbv	TO-15
Methyl ethyl ketone		4.3	0.80	0.19	ppbv	TO-15
Propylene		43.9	2.0	0.32	ppbv	TO-15
Styrene		1.6	0.80	0.10	ppbv	TO-15
1,1,1-Trichloroethane		5.0	0.80	0.13	ppbv	TO-15
1,2,4-Trimethylbenzene		2.0	0.80	0.092	ppbv	TO-15
1,3,5-Trimethylbenzene		0.95	0.80	0.12	ppbv	TO-15
2,2,4-Trimethylpentane		0.83	0.80	0.085	ppbv	TO-15
Tertiary Butyl Alcohol		3.2	0.80	0.20	ppbv	TO-15
Tetrachloroethylene		1.0	0.16	0.095	ppbv	TO-15
Toluene		37.0	0.80	0.081	ppbv	TO-15
Trichloroethylene		1.3	0.16	0.10	ppbv	TO-15
Vinyl chloride		0.83	0.80	0.13	ppbv	TO-15
m,p-Xylene		13.7	0.80	0.17	ppbv	TO-15
o-Xylene		5.1	0.80	0.10	ppbv	TO-15
Xylenes (total)		18.9	0.80	0.10	ppbv	TO-15
Acetone [a]		420 E	1.9	0.31	ug/m3	TO-15
Benzene		9.9	2.6	0.38	ug/m3	TO-15
Carbon disulfide		27	2.5	0.34	ug/m3	TO-15
Chloroethane		1.1 J	2.1	0.23	ug/m3	TO-15
Chloroform		1.9 J	3.9	0.59	ug/m3	TO-15
Chloromethane		1.2 J	1.7	0.25	ug/m3	TO-15
Cyclohexane		9.6	2.8	0.45	ug/m3	TO-15
1,1-Dichloroethane		20	3.2	0.49	ug/m3	TO-15
Dichlorodifluoromethane		6.4	4.0	0.74	ug/m3	TO-15
cis-1,2-Dichloroethylene		8.3	3.2	0.39	ug/m3	TO-15

Summary of Hits

Job Number: JB94203
Account: PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Collected: 05/07/15

3

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Ethanol	15	3.8	1.2	ug/m3	TO-15
Ethylbenzene	14	3.5	0.83	ug/m3	TO-15
Ethyl Acetate	6.8	2.9	0.90	ug/m3	TO-15
4-Ethyltoluene	3.8 J	3.9	0.43	ug/m3	TO-15
Heptane	23	3.3	0.49	ug/m3	TO-15
Hexane	51.1	2.8	0.39	ug/m3	TO-15
Isopropyl Alcohol	6.4	2.0	1.2	ug/m3	TO-15
Methylene chloride	13	2.8	1.9	ug/m3	TO-15
Methyl ethyl ketone	13	2.4	0.56	ug/m3	TO-15
Propylene	75.4	3.4	0.55	ug/m3	TO-15
Styrene	6.8	3.4	0.43	ug/m3	TO-15
1,1,1-Trichloroethane	27	4.4	0.71	ug/m3	TO-15
1,2,4-Trimethylbenzene	9.8	3.9	0.45	ug/m3	TO-15
1,3,5-Trimethylbenzene	4.7	3.9	0.59	ug/m3	TO-15
2,2,4-Trimethylpentane	3.9	3.7	0.40	ug/m3	TO-15
Tertiary Butyl Alcohol	9.7	2.4	0.61	ug/m3	TO-15
Tetrachloroethylene	6.8	1.1	0.64	ug/m3	TO-15
Toluene	139	3.0	0.31	ug/m3	TO-15
Trichloroethylene	7.0	0.86	0.54	ug/m3	TO-15
Vinyl chloride	2.1	2.0	0.33	ug/m3	TO-15
m,p-Xylene	59.5	3.5	0.74	ug/m3	TO-15
o-Xylene	22	3.5	0.43	ug/m3	TO-15
Xylenes (total)	82.1	3.5	0.43	ug/m3	TO-15
JB94203-2 SV-2					
Acetone	260	5.9	0.94	ppbv	TO-15
1,3-Butadiene	13.7	0.80	0.12	ppbv	TO-15
Benzene	2.0	0.80	0.12	ppbv	TO-15
Carbon disulfide	5.1	0.80	0.11	ppbv	TO-15
Chloroform	13.4	0.80	0.12	ppbv	TO-15
Chloromethane	0.50 J	0.80	0.12	ppbv	TO-15
Cyclohexane	0.99	0.80	0.13	ppbv	TO-15
1,2-Dichloropropane	0.50 J	0.80	0.20	ppbv	TO-15
Dichlorodifluoromethane	1.6	0.80	0.15	ppbv	TO-15
Ethanol	4.3	2.0	0.66	ppbv	TO-15
Ethylbenzene	3.1	0.80	0.19	ppbv	TO-15
Ethyl Acetate	1.4	0.80	0.25	ppbv	TO-15
4-Ethyltoluene	2.3	0.80	0.088	ppbv	TO-15
Heptane	2.0	0.80	0.12	ppbv	TO-15
Hexane	3.8	0.80	0.11	ppbv	TO-15
Methyl ethyl ketone	3.8	0.80	0.19	ppbv	TO-15
Methyl Isobutyl Ketone	0.68 J	0.80	0.11	ppbv	TO-15
Propylene	104	2.0	0.32	ppbv	TO-15
Styrene	3.7	0.80	0.10	ppbv	TO-15

Summary of Hits

Job Number: JB94203
Account: PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Collected: 05/07/15

3

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
1,1,1-Trichloroethane	11.1	0.80	0.13	ppbv	TO-15
1,2,4-Trimethylbenzene	9.9	0.80	0.092	ppbv	TO-15
1,3,5-Trimethylbenzene	2.4	0.80	0.12	ppbv	TO-15
2,2,4-Trimethylpentane	0.71 J	0.80	0.085	ppbv	TO-15
Tertiary Butyl Alcohol	1.7	0.80	0.20	ppbv	TO-15
Tetrachloroethylene	0.73	0.16	0.095	ppbv	TO-15
Toluene	11.1	0.80	0.081	ppbv	TO-15
Trichloroethylene	0.33	0.16	0.10	ppbv	TO-15
m,p-Xylene	15.0	0.80	0.17	ppbv	TO-15
o-Xylene	6.6	0.80	0.10	ppbv	TO-15
Xylenes (total)	21.6	0.80	0.10	ppbv	TO-15
Acetone	618	14	2.2	ug/m3	TO-15
1,3-Butadiene	30.3	1.8	0.27	ug/m3	TO-15
Benzene	6.4	2.6	0.38	ug/m3	TO-15
Carbon disulfide	16	2.5	0.34	ug/m3	TO-15
Chloroform	65.4	3.9	0.59	ug/m3	TO-15
Chloromethane	1.0 J	1.7	0.25	ug/m3	TO-15
Cyclohexane	3.4	2.8	0.45	ug/m3	TO-15
1,2-Dichloropropane	2.3 J	3.7	0.92	ug/m3	TO-15
Dichlorodifluoromethane	7.9	4.0	0.74	ug/m3	TO-15
Ethanol	8.1	3.8	1.2	ug/m3	TO-15
Ethylbenzene	13	3.5	0.83	ug/m3	TO-15
Ethyl Acetate	5.0	2.9	0.90	ug/m3	TO-15
4-Ethyltoluene	11	3.9	0.43	ug/m3	TO-15
Heptane	8.2	3.3	0.49	ug/m3	TO-15
Hexane	13	2.8	0.39	ug/m3	TO-15
Methyl ethyl ketone	11	2.4	0.56	ug/m3	TO-15
Methyl Isobutyl Ketone	2.8 J	3.3	0.45	ug/m3	TO-15
Propylene	179	3.4	0.55	ug/m3	TO-15
Styrene	16	3.4	0.43	ug/m3	TO-15
1,1,1-Trichloroethane	60.6	4.4	0.71	ug/m3	TO-15
1,2,4-Trimethylbenzene	49	3.9	0.45	ug/m3	TO-15
1,3,5-Trimethylbenzene	12	3.9	0.59	ug/m3	TO-15
2,2,4-Trimethylpentane	3.3 J	3.7	0.40	ug/m3	TO-15
Tertiary Butyl Alcohol	5.2	2.4	0.61	ug/m3	TO-15
Tetrachloroethylene	5.0	1.1	0.64	ug/m3	TO-15
Toluene	41.8	3.0	0.31	ug/m3	TO-15
Trichloroethylene	1.8	0.86	0.54	ug/m3	TO-15
m,p-Xylene	65.2	3.5	0.74	ug/m3	TO-15
o-Xylene	29	3.5	0.43	ug/m3	TO-15
Xylenes (total)	93.8	3.5	0.43	ug/m3	TO-15
JB94203-3 SV-3					
Acetone	710	5.3	0.84	ppbv	TO-15

Summary of Hits

Job Number: JB94203
Account: PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Collected: 05/07/15

3

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Benzene	1.5	0.80	0.12	ppbv	TO-15
Carbon disulfide	12.5	0.80	0.11	ppbv	TO-15
Chloroform	1.3	0.80	0.12	ppbv	TO-15
Chloromethane	0.38 J	0.80	0.12	ppbv	TO-15
Cyclohexane	1.6	0.80	0.13	ppbv	TO-15
Dichlorodifluoromethane	0.68 J	0.80	0.15	ppbv	TO-15
Ethanol	8.3	2.0	0.66	ppbv	TO-15
Ethylbenzene	4.7	0.80	0.19	ppbv	TO-15
Ethyl Acetate	0.74 J	0.80	0.25	ppbv	TO-15
4-Ethyltoluene	3.5	0.80	0.088	ppbv	TO-15
Heptane	2.5	0.80	0.12	ppbv	TO-15
Hexane	4.4	0.80	0.11	ppbv	TO-15
2-Hexanone	1.1	0.80	0.18	ppbv	TO-15
Isopropyl Alcohol	2.3	0.80	0.48	ppbv	TO-15
Methylene chloride	2.6	0.80	0.54	ppbv	TO-15
Methyl ethyl ketone	10.8	0.80	0.19	ppbv	TO-15
Propylene	66.6	2.0	0.32	ppbv	TO-15
Styrene	5.2	0.80	0.10	ppbv	TO-15
1,2,4-Trimethylbenzene	16.3	0.80	0.092	ppbv	TO-15
1,3,5-Trimethylbenzene	4.3	0.80	0.12	ppbv	TO-15
2,2,4-Trimethylpentane	1.2	0.80	0.085	ppbv	TO-15
Tertiary Butyl Alcohol	2.5	0.80	0.20	ppbv	TO-15
Tetrahydrofuran	5.7	0.80	0.17	ppbv	TO-15
Toluene	13.4	0.80	0.081	ppbv	TO-15
Trichlorofluoromethane	0.41 J	0.80	0.081	ppbv	TO-15
m,p-Xylene	22.9	0.80	0.17	ppbv	TO-15
o-Xylene	10.6	0.80	0.10	ppbv	TO-15
Xylenes (total)	33.5	0.80	0.10	ppbv	TO-15
Acetone	1690	13	2.0	ug/m3	TO-15
Benzene	4.8	2.6	0.38	ug/m3	TO-15
Carbon disulfide	38.9	2.5	0.34	ug/m3	TO-15
Chloroform	6.3	3.9	0.59	ug/m3	TO-15
Chloromethane	0.78 J	1.7	0.25	ug/m3	TO-15
Cyclohexane	5.5	2.8	0.45	ug/m3	TO-15
Dichlorodifluoromethane	3.4 J	4.0	0.74	ug/m3	TO-15
Ethanol	16	3.8	1.2	ug/m3	TO-15
Ethylbenzene	20	3.5	0.83	ug/m3	TO-15
Ethyl Acetate	2.7 J	2.9	0.90	ug/m3	TO-15
4-Ethyltoluene	17	3.9	0.43	ug/m3	TO-15
Heptane	10	3.3	0.49	ug/m3	TO-15
Hexane	16	2.8	0.39	ug/m3	TO-15
2-Hexanone	4.5	3.3	0.74	ug/m3	TO-15
Isopropyl Alcohol	5.7	2.0	1.2	ug/m3	TO-15
Methylene chloride	9.0	2.8	1.9	ug/m3	TO-15
Methyl ethyl ketone	31.9	2.4	0.56	ug/m3	TO-15

Summary of Hits

Job Number: JB94203
Account: PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Collected: 05/07/15

3

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Propylene	114	3.4	0.55	ug/m3	TO-15
Styrene	22	3.4	0.43	ug/m3	TO-15
1,2,4-Trimethylbenzene	80.1	3.9	0.45	ug/m3	TO-15
1,3,5-Trimethylbenzene	21	3.9	0.59	ug/m3	TO-15
2,2,4-Trimethylpentane	5.6	3.7	0.40	ug/m3	TO-15
Tertiary Butyl Alcohol	7.6	2.4	0.61	ug/m3	TO-15
Tetrahydrofuran	17	2.4	0.50	ug/m3	TO-15
Toluene	50.5	3.0	0.31	ug/m3	TO-15
Trichlorofluoromethane	2.3 J	4.5	0.46	ug/m3	TO-15
m,p-Xylene	99.5	3.5	0.74	ug/m3	TO-15
o-Xylene	46.0	3.5	0.43	ug/m3	TO-15
Xylenes (total)	146	3.5	0.43	ug/m3	TO-15
JB94203-4 SV-4					
Acetone	974	12	1.8	ppbv	TO-15
1,3-Butadiene	1.5	0.80	0.12	ppbv	TO-15
Benzene	1.4	0.80	0.12	ppbv	TO-15
Carbon disulfide	7.0	0.80	0.11	ppbv	TO-15
Chloromethane	0.74 J	0.80	0.12	ppbv	TO-15
Cyclohexane	0.58 J	0.80	0.13	ppbv	TO-15
Dichlorodifluoromethane	6.8	0.80	0.15	ppbv	TO-15
Ethanol	17.8	2.0	0.66	ppbv	TO-15
Ethylbenzene	3.5	0.80	0.19	ppbv	TO-15
Ethyl Acetate	2.5	0.80	0.25	ppbv	TO-15
4-Ethyltoluene	2.4	0.80	0.088	ppbv	TO-15
Freon 114	0.50 J	0.80	0.10	ppbv	TO-15
Heptane	1.9	0.80	0.12	ppbv	TO-15
Hexane	2.2	0.80	0.11	ppbv	TO-15
2-Hexanone	1.6	0.80	0.18	ppbv	TO-15
Isopropyl Alcohol	4.3	0.80	0.48	ppbv	TO-15
Methylene chloride	0.77 J	0.80	0.54	ppbv	TO-15
Methyl ethyl ketone	14.4	0.80	0.19	ppbv	TO-15
Propylene	21.5	2.0	0.32	ppbv	TO-15
Styrene	3.6	0.80	0.10	ppbv	TO-15
1,2,4-Trimethylbenzene	10.6	0.80	0.092	ppbv	TO-15
1,3,5-Trimethylbenzene	2.7	0.80	0.12	ppbv	TO-15
2,2,4-Trimethylpentane	2.2	0.80	0.085	ppbv	TO-15
Tertiary Butyl Alcohol	4.9	0.80	0.20	ppbv	TO-15
Tetrachloroethylene	0.34	0.16	0.095	ppbv	TO-15
Toluene	10.2	0.80	0.081	ppbv	TO-15
m,p-Xylene	16.4	0.80	0.17	ppbv	TO-15
o-Xylene	7.5	0.80	0.10	ppbv	TO-15
Xylenes (total)	23.9	0.80	0.10	ppbv	TO-15
Acetone	2310	29	4.3	ug/m3	TO-15

Summary of Hits

Job Number: JB94203
Account: PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Collected: 05/07/15

3

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
1,3-Butadiene	3.3	1.8	0.27	ug/m3	TO-15
Benzene	4.5	2.6	0.38	ug/m3	TO-15
Carbon disulfide	22	2.5	0.34	ug/m3	TO-15
Chloromethane	1.5 J	1.7	0.25	ug/m3	TO-15
Cyclohexane	2.0 J	2.8	0.45	ug/m3	TO-15
Dichlorodifluoromethane	34	4.0	0.74	ug/m3	TO-15
Ethanol	33.5	3.8	1.2	ug/m3	TO-15
Ethylbenzene	15	3.5	0.83	ug/m3	TO-15
Ethyl Acetate	9.0	2.9	0.90	ug/m3	TO-15
4-Ethyltoluene	12	3.9	0.43	ug/m3	TO-15
Freon 114	3.5 J	5.6	0.70	ug/m3	TO-15
Heptane	7.8	3.3	0.49	ug/m3	TO-15
Hexane	7.8	2.8	0.39	ug/m3	TO-15
2-Hexanone	6.5	3.3	0.74	ug/m3	TO-15
Isopropyl Alcohol	11	2.0	1.2	ug/m3	TO-15
Methylene chloride	2.7 J	2.8	1.9	ug/m3	TO-15
Methyl ethyl ketone	42.5	2.4	0.56	ug/m3	TO-15
Propylene	36.9	3.4	0.55	ug/m3	TO-15
Styrene	15	3.4	0.43	ug/m3	TO-15
1,2,4-Trimethylbenzene	52.1	3.9	0.45	ug/m3	TO-15
1,3,5-Trimethylbenzene	13	3.9	0.59	ug/m3	TO-15
2,2,4-Trimethylpentane	10	3.7	0.40	ug/m3	TO-15
Tertiary Butyl Alcohol	15	2.4	0.61	ug/m3	TO-15
Tetrachloroethylene	2.3	1.1	0.64	ug/m3	TO-15
Toluene	38.4	3.0	0.31	ug/m3	TO-15
m,p-Xylene	71.2	3.5	0.74	ug/m3	TO-15
o-Xylene	33	3.5	0.43	ug/m3	TO-15
Xylenes (total)	104	3.5	0.43	ug/m3	TO-15
JB94203-5 SV-5					
Acetone	376	4.0	0.63	ppbv	TO-15
Benzene	4.2	0.80	0.12	ppbv	TO-15
Carbon disulfide	22.5	0.80	0.11	ppbv	TO-15
Chloroethane	4.6	0.80	0.086	ppbv	TO-15
Chloroform	2.1	0.80	0.12	ppbv	TO-15
Chloromethane	0.82	0.80	0.12	ppbv	TO-15
Cyclohexane	38.4	0.80	0.13	ppbv	TO-15
1,2-Dichloropropane	1.2	0.80	0.20	ppbv	TO-15
Dichlorodifluoromethane	1.3	0.80	0.15	ppbv	TO-15
Ethanol	14.5	2.0	0.66	ppbv	TO-15
Ethylbenzene	2.8	0.80	0.19	ppbv	TO-15
4-Ethyltoluene	1.4	0.80	0.088	ppbv	TO-15
Heptane	20.2	0.80	0.12	ppbv	TO-15
Hexane	87.7	0.80	0.11	ppbv	TO-15

Summary of Hits

Job Number: JB94203
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Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Collected: 05/07/15

3

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
2-Hexanone	0.92	0.80	0.18	ppbv	TO-15
Methyl ethyl ketone	8.6	0.80	0.19	ppbv	TO-15
Propylene	427	10	1.6	ppbv	TO-15
Styrene	2.4	0.80	0.10	ppbv	TO-15
1,2,4-Trimethylbenzene	6.4	0.80	0.092	ppbv	TO-15
1,3,5-Trimethylbenzene	1.6	0.80	0.12	ppbv	TO-15
2,2,4-Trimethylpentane	138	4.0	0.43	ppbv	TO-15
Tertiary Butyl Alcohol	1.1	0.80	0.20	ppbv	TO-15
Toluene	9.3	0.80	0.081	ppbv	TO-15
Trichloroethylene	0.15 J	0.16	0.10	ppbv	TO-15
m,p-Xylene	11.5	0.80	0.17	ppbv	TO-15
o-Xylene	5.6	0.80	0.10	ppbv	TO-15
Xylenes (total)	17.1	0.80	0.10	ppbv	TO-15
Acetone	893	9.5	1.5	ug/m3	TO-15
Benzene	13	2.6	0.38	ug/m3	TO-15
Carbon disulfide	70.1	2.5	0.34	ug/m3	TO-15
Chloroethane	12	2.1	0.23	ug/m3	TO-15
Chloroform	10	3.9	0.59	ug/m3	TO-15
Chloromethane	1.7	1.7	0.25	ug/m3	TO-15
Cyclohexane	132	2.8	0.45	ug/m3	TO-15
1,2-Dichloropropane	5.5	3.7	0.92	ug/m3	TO-15
Dichlorodifluoromethane	6.4	4.0	0.74	ug/m3	TO-15
Ethanol	27.3	3.8	1.2	ug/m3	TO-15
Ethylbenzene	12	3.5	0.83	ug/m3	TO-15
4-Ethyltoluene	6.9	3.9	0.43	ug/m3	TO-15
Heptane	82.8	3.3	0.49	ug/m3	TO-15
Hexane	309	2.8	0.39	ug/m3	TO-15
2-Hexanone	3.8	3.3	0.74	ug/m3	TO-15
Methyl ethyl ketone	25	2.4	0.56	ug/m3	TO-15
Propylene	733	17	2.7	ug/m3	TO-15
Styrene	10	3.4	0.43	ug/m3	TO-15
1,2,4-Trimethylbenzene	31	3.9	0.45	ug/m3	TO-15
1,3,5-Trimethylbenzene	7.9	3.9	0.59	ug/m3	TO-15
2,2,4-Trimethylpentane	645	19	2.0	ug/m3	TO-15
Tertiary Butyl Alcohol	3.3	2.4	0.61	ug/m3	TO-15
Toluene	35	3.0	0.31	ug/m3	TO-15
Trichloroethylene	0.81 J	0.86	0.54	ug/m3	TO-15
m,p-Xylene	50.0	3.5	0.74	ug/m3	TO-15
o-Xylene	24	3.5	0.43	ug/m3	TO-15
Xylenes (total)	74.3	3.5	0.43	ug/m3	TO-15

(a) Estimated value; Summa unavailable for further dilution due to summa accidentally cleaned.

New Jersey

ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	SV-1		
Lab Sample ID:	JB94203-1	**Date Sampled:**	05/07/15
Matrix:	AIR - Soil Vapor Comp. Summa ID: A827	**Date Received:**	05/07/15
Method:	TO-15	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W11437.D	1	05/08/15	ML	n/a	n/a	V5W449
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone [a]	177	0.80	0.13	ppbv	E	420	1.9	0.31	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.12	ppbv		ND	1.8	0.27	ug/m3
71-43-2	78.11	Benzene	3.1	0.80	0.12	ppbv		9.9	2.6	0.38	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.13	ppbv		ND	5.4	0.87	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.082	ppbv		ND	8.3	0.85	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.087	ppbv		ND	3.1	0.34	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.081	ppbv		ND	3.5	0.35	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.10	ppbv		ND	4.1	0.52	ug/m3
75-15-0	76.14	Carbon disulfide	8.7	0.80	0.11	ppbv		27	2.5	0.34	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.13	ppbv		ND	3.7	0.60	ug/m3
75-00-3	64.52	Chloroethane	0.43	0.80	0.086	ppbv	J	1.1	2.1	0.23	ug/m3
67-66-3	119.4	Chloroform	0.39	0.80	0.12	ppbv	J	1.9	3.9	0.59	ug/m3
74-87-3	50.49	Chloromethane	0.60	0.80	0.12	ppbv	J	1.2	1.7	0.25	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.11	ppbv		ND	2.5	0.34	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.13	ppbv		ND	4.1	0.67	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.098	ppbv		ND	5.0	0.62	ug/m3
110-82-7	84.16	Cyclohexane	2.8	0.80	0.13	ppbv		9.6	2.8	0.45	ug/m3
75-34-3	98.96	1,1-Dichloroethane	5.0	0.80	0.12	ppbv		20	3.2	0.49	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.14	ppbv		ND	6.1	1.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.10	ppbv		ND	3.2	0.40	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.20	ppbv		ND	3.7	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.25	ppbv		ND	2.9	0.90	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	1.3	0.80	0.15	ppbv		6.4	4.0	0.74	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.17	ppbv		ND	6.8	1.4	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.081	ppbv		ND	3.2	0.32	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	2.1	0.80	0.099	ppbv		8.3	3.2	0.39	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.14	ppbv		ND	3.6	0.64	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	0.66	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.12	ppbv		ND	4.8	0.72	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.077	ppbv		ND	4.8	0.46	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.082	ppbv		ND	3.6	0.37	ug/m3

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SV-1		
Lab Sample ID:	JB94203-1	**Date Sampled:**	05/07/15
Matrix:	AIR - Soil Vapor Comp. Summa ID: A827	**Date Received:**	05/07/15
Method:	TO-15	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	8.0	2.0	0.66	ppbv		15	3.8	1.2	ug/m3
100-41-4	106.2	Ethylbenzene	3.2	0.80	0.19	ppbv		14	3.5	0.83	ug/m3
141-78-6	88	Ethyl Acetate	1.9	0.80	0.25	ppbv		6.8	2.9	0.90	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.77	0.80	0.088	ppbv	J	3.8	3.9	0.43	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.11	ppbv		ND	6.1	0.84	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.10	ppbv		ND	5.6	0.70	ug/m3
142-82-5	100.2	Heptane	5.5	0.80	0.12	ppbv		23	3.3	0.49	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.13	ppbv		ND	8.5	1.4	ug/m3
110-54-3	86.17	Hexane	14.5	0.80	0.11	ppbv		51.1	2.8	0.39	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.18	ppbv		ND	3.3	0.74	ug/m3
67-63-0	60.1	Isopropyl Alcohol	2.6	0.80	0.48	ppbv		6.4	2.0	1.2	ug/m3
75-09-2	84.94	Methylene chloride	3.6	0.80	0.54	ppbv		13	2.8	1.9	ug/m3
78-93-3	72.11	Methyl ethyl ketone	4.3	0.80	0.19	ppbv		13	2.4	0.56	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.11	ppbv		ND	3.3	0.45	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.10	ppbv		ND	2.9	0.36	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.12	ppbv		ND	3.3	0.49	ug/m3
115-07-1	42	Propylene	43.9	2.0	0.32	ppbv		75.4	3.4	0.55	ug/m3
100-42-5	104.1	Styrene	1.6	0.80	0.10	ppbv		6.8	3.4	0.43	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	5.0	0.80	0.13	ppbv		27	4.4	0.71	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	0.82	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.14	ppbv		ND	4.4	0.76	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.18	ppbv		ND	5.9	1.3	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	2.0	0.80	0.092	ppbv		9.8	3.9	0.45	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.95	0.80	0.12	ppbv		4.7	3.9	0.59	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.83	0.80	0.085	ppbv		3.9	3.7	0.40	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	3.2	0.80	0.20	ppbv		9.7	2.4	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	1.0	0.16	0.095	ppbv		6.8	1.1	0.64	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.17	ppbv		ND	2.4	0.50	ug/m3
108-88-3	92.14	Toluene	37.0	0.80	0.081	ppbv		139	3.0	0.31	ug/m3
79-01-6	131.4	Trichloroethylene	1.3	0.16	0.10	ppbv		7.0	0.86	0.54	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.081	ppbv		ND	4.5	0.46	ug/m3
75-01-4	62.5	Vinyl chloride	0.83	0.80	0.13	ppbv		2.1	2.0	0.33	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.22	ppbv		ND	2.8	0.77	ug/m3
	106.2	m,p-Xylene	13.7	0.80	0.17	ppbv		59.5	3.5	0.74	ug/m3
95-47-6	106.2	o-Xylene	5.1	0.80	0.10	ppbv		22	3.5	0.43	ug/m3
1330-20-7	106.2	Xylenes (total)	18.9	0.80	0.10	ppbv		82.1	3.5	0.43	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		65-128%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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Report of Analysis

Client Sample ID:	SV-1		
Lab Sample ID:	JB94203-1	**Date Sampled:**	05/07/15
Matrix:	AIR - Soil Vapor Comp. Summa ID: A827	**Date Received:**	05/07/15
Method:	TO-15	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

(a) Estimated value; Summa unavailable for further dilution due to summa accidentally cleaned.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID: SV-2
Lab Sample ID: JB94203-2
Matrix: AIR - Soil Vapor Comp. Summa ID: A089
Method: TO-15
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Date Sampled: 05/07/15
Date Received: 05/07/15
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W11439.D	1	05/08/15	ML	n/a	n/a	V5W449
Run #2	5W11518.D	1.48	05/12/15	ML	n/a	n/a	V5W452
Run #3 [a]	5W11471.D	1	05/09/15	ML	n/a	n/a	V5W450

	Initial Volume
Run #1	100 ml
Run #2	20.0 ml
Run #3	50.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	260 [b]	5.9	0.94	ppbv		618 [b]	14	2.2	ug/m3
106-99-0	54.09	1,3-Butadiene	13.7	0.80	0.12	ppbv		30.3	1.8	0.27	ug/m3
71-43-2	78.11	Benzene	2.0	0.80	0.12	ppbv		6.4	2.6	0.38	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.13	ppbv		ND	5.4	0.87	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.082	ppbv		ND	8.3	0.85	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.087	ppbv		ND	3.1	0.34	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.081	ppbv		ND	3.5	0.35	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.10	ppbv		ND	4.1	0.52	ug/m3
75-15-0	76.14	Carbon disulfide	5.1	0.80	0.11	ppbv		16	2.5	0.34	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.13	ppbv		ND	3.7	0.60	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.086	ppbv		ND	2.1	0.23	ug/m3
67-66-3	119.4	Chloroform	13.4	0.80	0.12	ppbv		65.4	3.9	0.59	ug/m3
74-87-3	50.49	Chloromethane	0.50	0.80	0.12	ppbv	J	1.0	1.7	0.25	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.11	ppbv		ND	2.5	0.34	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.13	ppbv		ND	4.1	0.67	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.098	ppbv		ND	5.0	0.62	ug/m3
110-82-7	84.16	Cyclohexane	0.99	0.80	0.13	ppbv		3.4	2.8	0.45	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.12	ppbv		ND	3.2	0.49	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.14	ppbv		ND	6.1	1.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.10	ppbv		ND	3.2	0.40	ug/m3
78-87-5	113	1,2-Dichloropropane	0.50	0.80	0.20	ppbv	J	2.3	3.7	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.25	ppbv		ND	2.9	0.90	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	1.6	0.80	0.15	ppbv		7.9	4.0	0.74	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.17	ppbv		ND	6.8	1.4	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.081	ppbv		ND	3.2	0.32	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.099	ppbv		ND	3.2	0.39	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.14	ppbv		ND	3.6	0.64	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	0.66	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.12	ppbv		ND	4.8	0.72	ug/m3

ND = Not detected MDL = Method Detection Limit
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Report of Analysis

Client Sample ID:	SV-2		
Lab Sample ID:	JB94203-2	**Date Sampled:**	05/07/15
Matrix:	AIR - Soil Vapor Comp. Summa ID: A089	**Date Received:**	05/07/15
Method:	TO-15	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.077	ppbv		ND	4.8	0.46	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.082	ppbv		ND	3.6	0.37	ug/m3
64-17-5	46.07	Ethanol	4.3	2.0	0.66	ppbv		8.1	3.8	1.2	ug/m3
100-41-4	106.2	Ethylbenzene	3.1	0.80	0.19	ppbv		13	3.5	0.83	ug/m3
141-78-6	88	Ethyl Acetate	1.4	0.80	0.25	ppbv		5.0	2.9	0.90	ug/m3
622-96-8	120.2	4-Ethyltoluene	2.3	0.80	0.088	ppbv		11	3.9	0.43	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.11	ppbv		ND	6.1	0.84	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.10	ppbv		ND	5.6	0.70	ug/m3
142-82-5	100.2	Heptane	2.0	0.80	0.12	ppbv		8.2	3.3	0.49	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.13	ppbv		ND	8.5	1.4	ug/m3
110-54-3	86.17	Hexane	3.8	0.80	0.11	ppbv		13	2.8	0.39	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.18	ppbv		ND	3.3	0.74	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.48	ppbv		ND	2.0	1.2	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.54	ppbv		ND	2.8	1.9	ug/m3
78-93-3	72.11	Methyl ethyl ketone	3.8	0.80	0.19	ppbv		11	2.4	0.56	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.68	0.80	0.11	ppbv	J	2.8	3.3	0.45	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.10	ppbv		ND	2.9	0.36	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.12	ppbv		ND	3.3	0.49	ug/m3
115-07-1	42	Propylene	104	2.0	0.32	ppbv		179	3.4	0.55	ug/m3
100-42-5	104.1	Styrene	3.7	0.80	0.10	ppbv		16	3.4	0.43	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	11.1	0.80	0.13	ppbv		60.6	4.4	0.71	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	0.82	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.14	ppbv		ND	4.4	0.76	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.18	ppbv		ND	5.9	1.3	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	9.9	0.80	0.092	ppbv		49	3.9	0.45	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	2.4	0.80	0.12	ppbv		12	3.9	0.59	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.71	0.80	0.085	ppbv	J	3.3	3.7	0.40	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	1.7	0.80	0.20	ppbv		5.2	2.4	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.73	0.16	0.095	ppbv		5.0	1.1	0.64	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.17	ppbv		ND	2.4	0.50	ug/m3
108-88-3	92.14	Toluene	11.1	0.80	0.081	ppbv		41.8	3.0	0.31	ug/m3
79-01-6	131.4	Trichloroethylene	0.33	0.16	0.10	ppbv		1.8	0.86	0.54	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.081	ppbv		ND	4.5	0.46	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.13	ppbv		ND	2.0	0.33	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.22	ppbv		ND	2.8	0.77	ug/m3
	106.2	m,p-Xylene	15.0	0.80	0.17	ppbv		65.2	3.5	0.74	ug/m3
95-47-6	106.2	o-Xylene	6.6	0.80	0.10	ppbv		29	3.5	0.43	ug/m3
1330-20-7	106.2	Xylenes (total)	21.6	0.80	0.10	ppbv		93.8	3.5	0.43	ug/m3

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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Report of Analysis

Client Sample ID:	SV-2		
Lab Sample ID:	JB94203-2	**Date Sampled:**	05/07/15
Matrix:	AIR - Soil Vapor Comp. Summa ID: A089	**Date Received:**	05/07/15
Method:	TO-15	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

VOA TO15 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
460-00-4	4-Bromofluorobenzene	102%	99%	102%	65-128%

(a) Confirmation run.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID: SV-3
Lab Sample ID: JB94203-3
Matrix: AIR - Soil Vapor Comp. Summa ID: A1021
Method: TO-15
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Date Sampled: 05/07/15
Date Received: 05/07/15
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W11440.D	1	05/08/15	ML	n/a	n/a	V5W449
Run #2	5W11472.D	1.33	05/09/15	ML	n/a	n/a	V5W450

	Initial Volume
Run #1	100 ml
Run #2	20.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	710 [a]	5.3	0.84	ppbv		1690 [a]	13	2.0	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.12	ppbv		ND	1.8	0.27	ug/m3
71-43-2	78.11	Benzene	1.5	0.80	0.12	ppbv		4.8	2.6	0.38	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.13	ppbv		ND	5.4	0.87	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.082	ppbv		ND	8.3	0.85	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.087	ppbv		ND	3.1	0.34	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.081	ppbv		ND	3.5	0.35	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.10	ppbv		ND	4.1	0.52	ug/m3
75-15-0	76.14	Carbon disulfide	12.5	0.80	0.11	ppbv		38.9	2.5	0.34	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.13	ppbv		ND	3.7	0.60	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.086	ppbv		ND	2.1	0.23	ug/m3
67-66-3	119.4	Chloroform	1.3	0.80	0.12	ppbv		6.3	3.9	0.59	ug/m3
74-87-3	50.49	Chloromethane	0.38	0.80	0.12	ppbv	J	0.78	1.7	0.25	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.11	ppbv		ND	2.5	0.34	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.13	ppbv		ND	4.1	0.67	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.098	ppbv		ND	5.0	0.62	ug/m3
110-82-7	84.16	Cyclohexane	1.6	0.80	0.13	ppbv		5.5	2.8	0.45	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.12	ppbv		ND	3.2	0.49	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.14	ppbv		ND	6.1	1.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.10	ppbv		ND	3.2	0.40	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.20	ppbv		ND	3.7	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.25	ppbv		ND	2.9	0.90	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.68	0.80	0.15	ppbv	J	3.4	4.0	0.74	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.17	ppbv		ND	6.8	1.4	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.081	ppbv		ND	3.2	0.32	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.099	ppbv		ND	3.2	0.39	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.14	ppbv		ND	3.6	0.64	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	0.66	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.12	ppbv		ND	4.8	0.72	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.077	ppbv		ND	4.8	0.46	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.082	ppbv		ND	3.6	0.37	ug/m3

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SV-3		
Lab Sample ID:	JB94203-3	**Date Sampled:**	05/07/15
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1021	**Date Received:**	05/07/15
Method:	TO-15	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	8.3	2.0	0.66	ppbv		16	3.8	1.2	ug/m3
100-41-4	106.2	Ethylbenzene	4.7	0.80	0.19	ppbv		20	3.5	0.83	ug/m3
141-78-6	88	Ethyl Acetate	0.74	0.80	0.25	ppbv	J	2.7	2.9	0.90	ug/m3
622-96-8	120.2	4-Ethyltoluene	3.5	0.80	0.088	ppbv		17	3.9	0.43	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.11	ppbv		ND	6.1	0.84	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.10	ppbv		ND	5.6	0.70	ug/m3
142-82-5	100.2	Heptane	2.5	0.80	0.12	ppbv		10	3.3	0.49	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.13	ppbv		ND	8.5	1.4	ug/m3
110-54-3	86.17	Hexane	4.4	0.80	0.11	ppbv		16	2.8	0.39	ug/m3
591-78-6	100	2-Hexanone	1.1	0.80	0.18	ppbv		4.5	3.3	0.74	ug/m3
67-63-0	60.1	Isopropyl Alcohol	2.3	0.80	0.48	ppbv		5.7	2.0	1.2	ug/m3
75-09-2	84.94	Methylene chloride	2.6	0.80	0.54	ppbv		9.0	2.8	1.9	ug/m3
78-93-3	72.11	Methyl ethyl ketone	10.8	0.80	0.19	ppbv		31.9	2.4	0.56	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.11	ppbv		ND	3.3	0.45	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.10	ppbv		ND	2.9	0.36	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.12	ppbv		ND	3.3	0.49	ug/m3
115-07-1	42	Propylene	66.6	2.0	0.32	ppbv		114	3.4	0.55	ug/m3
100-42-5	104.1	Styrene	5.2	0.80	0.10	ppbv		22	3.4	0.43	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.13	ppbv		ND	4.4	0.71	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	0.82	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.14	ppbv		ND	4.4	0.76	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.18	ppbv		ND	5.9	1.3	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	16.3	0.80	0.092	ppbv		80.1	3.9	0.45	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	4.3	0.80	0.12	ppbv		21	3.9	0.59	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	1.2	0.80	0.085	ppbv		5.6	3.7	0.40	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	2.5	0.80	0.20	ppbv		7.6	2.4	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.16	0.095	ppbv		ND	1.1	0.64	ug/m3
109-99-9	72.11	Tetrahydrofuran	5.7	0.80	0.17	ppbv		17	2.4	0.50	ug/m3
108-88-3	92.14	Toluene	13.4	0.80	0.081	ppbv		50.5	3.0	0.31	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.10	ppbv		ND	0.86	0.54	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.41	0.80	0.081	ppbv	J	2.3	4.5	0.46	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.13	ppbv		ND	2.0	0.33	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.22	ppbv		ND	2.8	0.77	ug/m3
	106.2	m,p-Xylene	22.9	0.80	0.17	ppbv		99.5	3.5	0.74	ug/m3
95-47-6	106.2	o-Xylene	10.6	0.80	0.10	ppbv		46.0	3.5	0.43	ug/m3
1330-20-7	106.2	Xylenes (total)	33.5	0.80	0.10	ppbv		146	3.5	0.43	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%	99%	65-128%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SV-3		
Lab Sample ID:	JB94203-3	**Date Sampled:**	05/07/15
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1021	**Date Received:**	05/07/15
Method:	TO-15	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID: SV-4
Lab Sample ID: JB94203-4
Matrix: AIR - Soil Vapor Comp. Summa ID: A463
Method: TO-15
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Date Sampled: 05/07/15
Date Received: 05/07/15
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W11441.D	1	05/08/15	ML	n/a	n/a	V5W449
Run #2	5W11473.D	1.45	05/09/15	ML	n/a	n/a	V5W450

	Initial Volume
Run #1	100 ml
Run #2	10.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	974 [a]	12	1.8	ppbv		2310 [a]	29	4.3	ug/m3
106-99-0	54.09	1,3-Butadiene	1.5	0.80	0.12	ppbv		3.3	1.8	0.27	ug/m3
71-43-2	78.11	Benzene	1.4	0.80	0.12	ppbv		4.5	2.6	0.38	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.13	ppbv		ND	5.4	0.87	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.082	ppbv		ND	8.3	0.85	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.087	ppbv		ND	3.1	0.34	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.081	ppbv		ND	3.5	0.35	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.10	ppbv		ND	4.1	0.52	ug/m3
75-15-0	76.14	Carbon disulfide	7.0	0.80	0.11	ppbv		22	2.5	0.34	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.13	ppbv		ND	3.7	0.60	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.086	ppbv		ND	2.1	0.23	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.12	ppbv		ND	3.9	0.59	ug/m3
74-87-3	50.49	Chloromethane	0.74	0.80	0.12	ppbv	J	1.5	1.7	0.25	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.11	ppbv		ND	2.5	0.34	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.13	ppbv		ND	4.1	0.67	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.098	ppbv		ND	5.0	0.62	ug/m3
110-82-7	84.16	Cyclohexane	0.58	0.80	0.13	ppbv	J	2.0	2.8	0.45	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.12	ppbv		ND	3.2	0.49	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.14	ppbv		ND	6.1	1.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.10	ppbv		ND	3.2	0.40	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.20	ppbv		ND	3.7	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.25	ppbv		ND	2.9	0.90	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	6.8	0.80	0.15	ppbv		34	4.0	0.74	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.17	ppbv		ND	6.8	1.4	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.081	ppbv		ND	3.2	0.32	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.099	ppbv		ND	3.2	0.39	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.14	ppbv		ND	3.6	0.64	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	0.66	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.12	ppbv		ND	4.8	0.72	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.077	ppbv		ND	4.8	0.46	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.082	ppbv		ND	3.6	0.37	ug/m3

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SV-4		
Lab Sample ID:	JB94203-4	**Date Sampled:**	05/07/15
Matrix:	AIR - Soil Vapor Comp. Summa ID: A463	**Date Received:**	05/07/15
Method:	TO-15	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	17.8	2.0	0.66	ppbv		33.5	3.8	1.2	ug/m3
100-41-4	106.2	Ethylbenzene	3.5	0.80	0.19	ppbv		15	3.5	0.83	ug/m3
141-78-6	88	Ethyl Acetate	2.5	0.80	0.25	ppbv		9.0	2.9	0.90	ug/m3
622-96-8	120.2	4-Ethyltoluene	2.4	0.80	0.088	ppbv		12	3.9	0.43	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.11	ppbv		ND	6.1	0.84	ug/m3
76-14-2	170.9	Freon 114	0.50	0.80	0.10	ppbv	J	3.5	5.6	0.70	ug/m3
142-82-5	100.2	Heptane	1.9	0.80	0.12	ppbv		7.8	3.3	0.49	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.13	ppbv		ND	8.5	1.4	ug/m3
110-54-3	86.17	Hexane	2.2	0.80	0.11	ppbv		7.8	2.8	0.39	ug/m3
591-78-6	100	2-Hexanone	1.6	0.80	0.18	ppbv		6.5	3.3	0.74	ug/m3
67-63-0	60.1	Isopropyl Alcohol	4.3	0.80	0.48	ppbv		11	2.0	1.2	ug/m3
75-09-2	84.94	Methylene chloride	0.77	0.80	0.54	ppbv	J	2.7	2.8	1.9	ug/m3
78-93-3	72.11	Methyl ethyl ketone	14.4	0.80	0.19	ppbv		42.5	2.4	0.56	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.11	ppbv		ND	3.3	0.45	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.10	ppbv		ND	2.9	0.36	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.12	ppbv		ND	3.3	0.49	ug/m3
115-07-1	42	Propylene	21.5	2.0	0.32	ppbv		36.9	3.4	0.55	ug/m3
100-42-5	104.1	Styrene	3.6	0.80	0.10	ppbv		15	3.4	0.43	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.13	ppbv		ND	4.4	0.71	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	0.82	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.14	ppbv		ND	4.4	0.76	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.18	ppbv		ND	5.9	1.3	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	10.6	0.80	0.092	ppbv		52.1	3.9	0.45	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	2.7	0.80	0.12	ppbv		13	3.9	0.59	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	2.2	0.80	0.085	ppbv		10	3.7	0.40	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	4.9	0.80	0.20	ppbv		15	2.4	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.34	0.16	0.095	ppbv		2.3	1.1	0.64	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.17	ppbv		ND	2.4	0.50	ug/m3
108-88-3	92.14	Toluene	10.2	0.80	0.081	ppbv		38.4	3.0	0.31	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.10	ppbv		ND	0.86	0.54	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.081	ppbv		ND	4.5	0.46	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.13	ppbv		ND	2.0	0.33	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.22	ppbv		ND	2.8	0.77	ug/m3
	106.2	m,p-Xylene	16.4	0.80	0.17	ppbv		71.2	3.5	0.74	ug/m3
95-47-6	106.2	o-Xylene	7.5	0.80	0.10	ppbv		33	3.5	0.43	ug/m3
1330-20-7	106.2	Xylenes (total)	23.9	0.80	0.10	ppbv		104	3.5	0.43	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%	98%	65-128%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SV-4		
Lab Sample ID:	JB94203-4	**Date Sampled:**	05/07/15
Matrix:	AIR - Soil Vapor Comp. Summa ID: A463	**Date Received:**	05/07/15
Method:	TO-15	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID: SV-5
Lab Sample ID: JB94203-5
Matrix: AIR - Soil Vapor Comp. Summa ID: A647
Method: TO-15
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Date Sampled: 05/07/15
Date Received: 05/07/15
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W11442.D	1	05/08/15	ML	n/a	n/a	V5W449
Run #2	5W11492.D	1	05/11/15	ML	n/a	n/a	V5W451

	Initial Volume
Run #1	100 ml
Run #2	20.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	376 [a]	4.0	0.63	ppbv		893 [a]	9.5	1.5	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.12	ppbv		ND	1.8	0.27	ug/m3
71-43-2	78.11	Benzene	4.2	0.80	0.12	ppbv		13	2.6	0.38	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.13	ppbv		ND	5.4	0.87	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.082	ppbv		ND	8.3	0.85	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.087	ppbv		ND	3.1	0.34	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.081	ppbv		ND	3.5	0.35	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.10	ppbv		ND	4.1	0.52	ug/m3
75-15-0	76.14	Carbon disulfide	22.5	0.80	0.11	ppbv		70.1	2.5	0.34	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.13	ppbv		ND	3.7	0.60	ug/m3
75-00-3	64.52	Chloroethane	4.6	0.80	0.086	ppbv		12	2.1	0.23	ug/m3
67-66-3	119.4	Chloroform	2.1	0.80	0.12	ppbv		10	3.9	0.59	ug/m3
74-87-3	50.49	Chloromethane	0.82	0.80	0.12	ppbv		1.7	1.7	0.25	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.11	ppbv		ND	2.5	0.34	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.13	ppbv		ND	4.1	0.67	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.098	ppbv		ND	5.0	0.62	ug/m3
110-82-7	84.16	Cyclohexane	38.4	0.80	0.13	ppbv		132	2.8	0.45	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.12	ppbv		ND	3.2	0.49	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.14	ppbv		ND	6.1	1.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.10	ppbv		ND	3.2	0.40	ug/m3
78-87-5	113	1,2-Dichloropropane	1.2	0.80	0.20	ppbv		5.5	3.7	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.25	ppbv		ND	2.9	0.90	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	1.3	0.80	0.15	ppbv		6.4	4.0	0.74	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.17	ppbv		ND	6.8	1.4	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.081	ppbv		ND	3.2	0.32	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.099	ppbv		ND	3.2	0.39	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.14	ppbv		ND	3.6	0.64	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	0.66	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.12	ppbv		ND	4.8	0.72	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.077	ppbv		ND	4.8	0.46	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.082	ppbv		ND	3.6	0.37	ug/m3

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SV-5		
Lab Sample ID:	JB94203-5	**Date Sampled:**	05/07/15
Matrix:	AIR - Soil Vapor Comp. Summa ID: A647	**Date Received:**	05/07/15
Method:	TO-15	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	14.5	2.0	0.66	ppbv		27.3	3.8	1.2	ug/m3
100-41-4	106.2	Ethylbenzene	2.8	0.80	0.19	ppbv		12	3.5	0.83	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.25	ppbv		ND	2.9	0.90	ug/m3
622-96-8	120.2	4-Ethyltoluene	1.4	0.80	0.088	ppbv		6.9	3.9	0.43	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.11	ppbv		ND	6.1	0.84	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.10	ppbv		ND	5.6	0.70	ug/m3
142-82-5	100.2	Heptane	20.2	0.80	0.12	ppbv		82.8	3.3	0.49	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.13	ppbv		ND	8.5	1.4	ug/m3
110-54-3	86.17	Hexane	87.7	0.80	0.11	ppbv		309	2.8	0.39	ug/m3
591-78-6	100	2-Hexanone	0.92	0.80	0.18	ppbv		3.8	3.3	0.74	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.48	ppbv		ND	2.0	1.2	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.54	ppbv		ND	2.8	1.9	ug/m3
78-93-3	72.11	Methyl ethyl ketone	8.6	0.80	0.19	ppbv		25	2.4	0.56	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.11	ppbv		ND	3.3	0.45	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.10	ppbv		ND	2.9	0.36	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.12	ppbv		ND	3.3	0.49	ug/m3
115-07-1	42	Propylene	427 [a]	10	1.6	ppbv		733 [a]	17	2.7	ug/m3
100-42-5	104.1	Styrene	2.4	0.80	0.10	ppbv		10	3.4	0.43	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.13	ppbv		ND	4.4	0.71	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	0.82	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.14	ppbv		ND	4.4	0.76	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.18	ppbv		ND	5.9	1.3	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	6.4	0.80	0.092	ppbv		31	3.9	0.45	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	1.6	0.80	0.12	ppbv		7.9	3.9	0.59	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	138 [a]	4.0	0.43	ppbv		645 [a]	19	2.0	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	1.1	0.80	0.20	ppbv		3.3	2.4	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.16	0.095	ppbv		ND	1.1	0.64	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.17	ppbv		ND	2.4	0.50	ug/m3
108-88-3	92.14	Toluene	9.3	0.80	0.081	ppbv		35	3.0	0.31	ug/m3
79-01-6	131.4	Trichloroethylene	0.15	0.16	0.10	ppbv	J	0.81	0.86	0.54	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.081	ppbv		ND	4.5	0.46	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.13	ppbv		ND	2.0	0.33	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.22	ppbv		ND	2.8	0.77	ug/m3
	106.2	m,p-Xylene	11.5	0.80	0.17	ppbv		50.0	3.5	0.74	ug/m3
95-47-6	106.2	o-Xylene	5.6	0.80	0.10	ppbv		24	3.5	0.43	ug/m3
1330-20-7	106.2	Xylenes (total)	17.1	0.80	0.10	ppbv		74.3	3.5	0.43	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%	97%	65-128%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SV-5		
Lab Sample ID:	JB94203-5	**Date Sampled:**	05/07/15
Matrix:	AIR - Soil Vapor Comp. Summa ID: A647	**Date Received:**	05/07/15
Method:	TO-15	**Percent Solids:**	n/a
Project:	12090-02 430 Van Brunt Street, Brooklyn, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

New Jersey

ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log
- Sample Tracking Chronicle
- Internal Chain of Custody
- 2015 MDL Study - Method: TO-15

Air

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Air Sampling Field Data Sheet

FED-EX Tracking #:
Lab Quote #:
Bottle Order Control #: KP-5/5/2015-24
Lab Job #: JB94203

PAGE 1 OF 1

Client / Reporting Information

Company Name: PT Consultants Inc
Address: 629 Creek Rd
City: Bellmawr State: NJ Zip: 08031
Project Contact: Brad Somerville E-mail:
Phone #: 8562519980 Fax #:
Sampler(s) Name(s): Dorothy Libring

Project Name: 430 Van Brunt St
Street:
City: Brooklyn State: NY
Project #:
Client Purchase Order #:

Weather Parameters

Temperature (Fahrenheit)
Start: 65° Maximum:
Stop: 76° Minimum:

Atmoshpheric Pressure (inches of Hg)
Start: Maximum:
Stop: Minimum:

Other weather comment:

Lab Sample #	Field ID / Point of Collection	Air Type: Indoor(I) Soil Vap(SV) Ambient(A)	Sampling Equipment Info: Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Requested Analysis: Standard TO-15 Reporting List
1	SV-1	SV	A827	6	FC119	5/7/15	1021	30		DL	5/7	1222	2		DL	X
2	SV-2	SV	A089	6	FC442	5/7	1052	30		DL	5/7	1253	7		DL	X
3	SV-3	SV	A1021	6	FC366	5/7	1112	30		DL	5/7	1313	5		DL	X
4	SV-4	SV	A463	6	FC676	5/7	1331	30		DL	5/7	1532	6		DL	X
5	SV-5	SV	A647	6	FC365	5/7/15	1353	30		DL	5/7	1554	1		DL	X

Turnaround Time (Business days)

Standard - 15 Days
10 Day
5 Day Std
3 Day
2 Day
1 Day
Other

Approved By:
Date:

Data Deliverable Information

All NJDEP TO-15 is mandatory Full T1
Comm A
Comm B
Reduced T2
Full T1 X
Other:

Comments / Remarks

SUMMA

INITIAL ASESSMENT Am 4/8

LABEL VERIFICATION HV

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Laboratory:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 John Palumbo	5/7/15 1500	1	1	5-6-15 1200	2
Relinquished by: 3 D Libring	Date Time: 5/7/15 17:35	Received By: 3 Jane Yung	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #		

JB94203: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB94203 **Client:** **Project:**

Date / Time Received: 5/7/2015 5:35:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted):

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:			
4. No. Coolers:	0		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB94203: Chain of Custody
Page 2 of 2

Summa Canister and Flow Controller Log

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

SUMMA CANISTERS

Shipping							Receiving						
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A827	6	29.4	05/05/15	RD	CP7701	W51056.D	JB94203-1	05/07/15	YMH	7			1
A089	6	29.4	05/05/15	RD	CP7701	W51056.D	JB94203-2	05/07/15	YMH	6.5			1
A1021	6	29.4	05/05/15	RD	CP7707	3W47240.D	JB94203-3	05/07/15	YMH	5			1
A463	6	29.4	05/05/15	RD	CP7701	W51056.D	JB94203-4	05/07/15	YMH	7			1
A647	6	29.4	05/05/15	RD	CP7707	3W47240.D	JB94203-5	05/07/15	YMH	1			1

FLOW CONTROLLERS / OTHER

Shipping					Receiving			
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min	Equipment Type
FC119	05/05/15	RD	37.5	2	05/08/15	RC	38.4	Flow Controller
FC365	05/05/15	RD	37.5	2	05/08/15	RC	39.8	Flow Controller
FC366	05/05/15	RD	37.5	2	05/08/15	RC	39.7	Flow Controller
FC442	05/05/15	RD	37.5	2	05/08/15	RC	39.7	Flow Controller
FC676	05/05/15	RD	37.5	2	05/08/15	RC	39.2	Flow Controller

Accutest Bottle Order(s):
KP-5/5/2015-24

Prep Date	Room Temp(F)	Bar Pres "Hg
05/05/15	70	29.92

Internal Sample Tracking Chronicle

PT Consultants

12090-02 430 Van Brunt Street, Brooklyn, NY

Job No: JB94203

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB94203-1 SV-1	Collected: 07-MAY-15 12:22 By: DL		Received: 07-MAY-15 By: AS			
JB94203-1	TO-15	08-MAY-15 15:44	ML			VTO15STD
JB94203-2 SV-2	Collected: 07-MAY-15 12:53 By: DL		Received: 07-MAY-15 By: AS			
JB94203-2	TO-15	08-MAY-15 17:10	ML			VTO15STD
JB94203-2	TO-15	09-MAY-15 19:35	ML			VTO15STD
JB94203-2	TO-15	12-MAY-15 18:01	ML			VTO15STD
JB94203-3 SV-3	Collected: 07-MAY-15 13:13 By: DL		Received: 07-MAY-15 By: AS			
JB94203-3	TO-15	08-MAY-15 17:53	ML			VTO15STD
JB94203-3	TO-15	09-MAY-15 20:16	ML			VTO15STD
JB94203-4 SV-4	Collected: 07-MAY-15 15:32 By: DL		Received: 07-MAY-15 By: AS			
JB94203-4	TO-15	08-MAY-15 18:35	ML			VTO15STD
JB94203-4	TO-15	09-MAY-15 20:56	ML			VTO15STD
JB94203-5 SV-5	Collected: 07-MAY-15 15:54 By: DL		Received: 07-MAY-15 By: AS			
JB94203-5	TO-15	08-MAY-15 19:17	ML			VTO15STD
JB94203-5	TO-15	11-MAY-15 17:59	ML			VTO15STD

Accutest Internal Chain of Custody

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB94203-1.1	Harvey Lubitz	Air Storage	05/07/15 18:06	Return to Storage
JB94203-1.1	Air Storage	Michael Lee	05/08/15 16:11	Retrieve from Storage
JB94203-1.1	Michael Lee	GCMS5W	05/08/15 16:11	Load on Instrument
JB94203-1.1	GCMS5W	Michael Lee	05/09/15 16:58	Unload from Instrument
JB94203-1.1	Michael Lee	Air Storage	05/09/15 16:58	Return to Storage
JB94203-2.1	Harvey Lubitz	Air Storage	05/07/15 18:06	Return to Storage
JB94203-2.1	Air Storage	Michael Lee	05/08/15 16:11	Retrieve from Storage
JB94203-2.1	Michael Lee	GCMS5W	05/08/15 16:11	Load on Instrument
JB94203-2.1	GCMS5W	Michael Lee	05/09/15 16:58	Unload from Instrument
JB94203-2.1	Michael Lee	Air Storage	05/09/15 16:58	Return to Storage
JB94203-2.1	Air Storage	Michael Lee	05/09/15 17:15	Retrieve from Storage
JB94203-2.1	Michael Lee	GCMS5W	05/09/15 17:15	Load on Instrument
JB94203-2.1	GCMS5W	Youmin Hu	05/11/15 15:15	Unload from Instrument
JB94203-2.1	Youmin Hu	Air Storage	05/11/15 15:15	Return to Storage
JB94203-3.1	Harvey Lubitz	Air Storage	05/07/15 18:06	Return to Storage
JB94203-3.1	Air Storage	Michael Lee	05/08/15 16:11	Retrieve from Storage
JB94203-3.1	Michael Lee	GCMS5W	05/08/15 16:11	Load on Instrument
JB94203-3.1	GCMS5W	Michael Lee	05/09/15 16:58	Unload from Instrument
JB94203-3.1	Michael Lee	Air Storage	05/09/15 16:58	Return to Storage
JB94203-3.1	Air Storage	Michael Lee	05/09/15 17:15	Retrieve from Storage
JB94203-3.1	Michael Lee	GCMS5W	05/09/15 17:15	Load on Instrument
JB94203-3.1	GCMS5W	Youmin Hu	05/11/15 15:15	Unload from Instrument
JB94203-3.1	Youmin Hu	Air Storage	05/11/15 15:15	Return to Storage
JB94203-4.1	Harvey Lubitz	Air Storage	05/07/15 18:06	Return to Storage
JB94203-4.1	Air Storage	Michael Lee	05/08/15 16:11	Retrieve from Storage
JB94203-4.1	Michael Lee	GCMS5W	05/08/15 16:11	Load on Instrument
JB94203-4.1	GCMS5W	Michael Lee	05/09/15 16:58	Unload from Instrument
JB94203-4.1	Michael Lee	Air Storage	05/09/15 16:58	Return to Storage
JB94203-4.1	Air Storage	Michael Lee	05/09/15 17:15	Retrieve from Storage
JB94203-4.1	Michael Lee	GCMS5W	05/09/15 17:15	Load on Instrument
JB94203-4.1	GCMS5W	Youmin Hu	05/11/15 15:15	Unload from Instrument
JB94203-4.1	Youmin Hu	Air Storage	05/11/15 15:15	Return to Storage
JB94203-5.1	Harvey Lubitz	Air Storage	05/07/15 18:06	Return to Storage
JB94203-5.1	Air Storage	Michael Lee	05/08/15 16:11	Retrieve from Storage
JB94203-5.1	Michael Lee	GCMS5W	05/08/15 16:11	Load on Instrument
JB94203-5.1	GCMS5W	Michael Lee	05/09/15 16:58	Unload from Instrument
JB94203-5.1	Michael Lee	Air Storage	05/09/15 16:58	Return to Storage
JB94203-5.1	Air Storage	Michael Lee	05/09/15 17:15	Retrieve from Storage
JB94203-5.1	Michael Lee	GCMS5W	05/09/15 17:15	Load on Instrument
JB94203-5.1	GCMS5W	Youmin Hu	05/11/15 15:15	Unload from Instrument

Accutest Internal Chain of Custody

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Received: 05/07/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB94203-5.1	Youmin Hu	Air Storage	05/11/15 15:15	Return to Storage
JB94203-5.1	Air Storage	Youmin Hu	05/11/15 17:38	Retrieve from Storage
JB94203-5.1	Youmin Hu	GCMS5W	05/11/15 17:38	Load on Instrument
JB94203-5.1	GCMS5W	Michael Lee	05/13/15 15:44	Unload from Instrument
JB94203-5.1	Michael Lee	Air Storage	05/13/15 15:44	Return to Storage

Accutest Laboratories Annual Method Detection Limit Determination
Dayton, NJ Facility

Method: TO-15 (VTO14/15)
Instrument(s): GCMSW, GCMS3W, GCMS5W
Analyst: Pooled

Matrix: AIR
Quant Factor: 1.00
Study Period: January,2015

			Replicate Spikes											
Cmpd./Element/Parm. Name	Analysis Date	Spike ppbv	R1 ppbv	R2 ppbv	R3 ppbv	R4 ppbv	R5 ppbv	R6 ppbv	R7 ppbv	X-Bar ppbv	X-Bar %Recov.	STD.Dev. ppbv	MDL	Spike/MDL Ratio
Acetone	7-Jan-15	0.1	0.111	0.088	0.102	0.083	0.090	0.088	0.101	0.095	94.57	0.010	0.032	3.16
Acrolein	24-Jan-15	0.1	0.059	0.090	0.071	0.042	0.048	0.066	0.047	0.061	60.50	0.017	0.052	1.92
Acrylonitrile	3-Jan-15	0.2	0.171	0.185	0.174	0.183	0.164	0.178	0.177	0.176	87.99	0.007	0.023	8.89
Acetonitrile	7-Jan-15	0.2	0.223	0.231	0.216	0.234	0.216	0.170	0.221	0.216	108.00	0.021	0.067	2.99
1,3-Butadiene	7-Jan-15	0.1	0.106	0.090	0.107	0.086	0.104	0.114	0.102	0.101	101.28	0.010	0.031	3.22
Benzene	7-Jan-15	0.1	0.103	0.088	0.103	0.084	0.106	0.107	0.105	0.100	99.66	0.009	0.030	3.37
Bromobenzene	7-Jan-15	0.2	0.176	0.200	0.186	0.188	0.198	0.191	0.208	0.192	96.18	0.011	0.034	5.98
Bromodichloromethane	7-Jan-15	0.1	0.101	0.090	0.105	0.082	0.106	0.102	0.110	0.099	99.37	0.010	0.032	3.16
Bromoform	7-Jan-15	0.2	0.173	0.186	0.190	0.180	0.187	0.176	0.187	0.183	91.42	0.007	0.020	9.82
Bromomethane	7-Jan-15	0.2	0.210	0.212	0.222	0.213	0.227	0.218	0.226	0.218	109.16	0.007	0.022	9.19
Bromoethene	7-Jan-15	0.2	0.195	0.208	0.212	0.199	0.205	0.199	0.210	0.204	101.99	0.006	0.020	9.88
n-Butane	3-Jan-15	0.2	0.205	0.172	0.186	0.202	0.206	0.228	0.187	0.198	98.97	0.018	0.057	3.52
Benzyl Chloride	7-Jan-15	0.1	0.070	0.058	0.069	0.053	0.075	0.066	0.075	0.067	66.54	0.008	0.026	3.84
n-Butylbenzene	23-Jan-15	0.2	0.115	0.105	0.102	0.092	0.098	0.079	0.077	0.095	47.67	0.014	0.043	4.65
sec-Butylbenzene	7-Jan-15	0.2	0.131	0.148	0.133	0.140	0.151	0.145	0.138	0.141	70.42	0.007	0.023	8.65
tert-Butylbenzene	7-Jan-15	0.1	0.083	0.065	0.083	0.058	0.072	0.087	0.079	0.075	75.38	0.011	0.033	3.04
Carbon disulfide	7-Jan-15	0.2	0.205	0.226	0.220	0.222	0.206	0.208	0.223	0.216	107.78	0.009	0.029	7.03
Chlorobenzene	7-Jan-15	0.1	0.098	0.083	0.108	0.081	0.101	0.101	0.104	0.097	96.51	0.010	0.032	3.10
Chlorodifluoromethane	23-Jan-15	0.2	0.155	0.150	0.151	0.122	0.155	0.142	0.148	0.146	73.10	0.011	0.036	5.57
Chloroethane	7-Jan-15	0.2	0.214	0.206	0.214	0.204	0.208	0.216	0.224	0.212	106.15	0.007	0.022	9.29
Chloroform	7-Jan-15	0.1	0.105	0.095	0.104	0.084	0.115	0.108	0.105	0.102	102.20	0.010	0.031	3.21
Chloromethane	23-Jan-15	0.2	0.205	0.192	0.202	0.211	0.191	0.185	0.192	0.197	98.43	0.009	0.029	6.93
3-Chloropropene	7-Jan-15	0.2	0.195	0.199	0.202	0.203	0.219	0.191	0.198	0.201	100.52	0.009	0.028	7.27
2-Chlorotoluene	7-Jan-15	0.2	0.164	0.194	0.175	0.176	0.181	0.185	0.192	0.181	90.41	0.010	0.033	6.09
Carbon tetrachloride	7-Jan-15	0.1	0.106	0.089	0.104	0.090	0.104	0.106	0.106	0.101	100.77	0.008	0.025	4.07
Cyclohexane	7-Jan-15	0.2	0.207	0.205	0.226	0.209	0.228	0.204	0.219	0.214	107.01	0.010	0.032	6.26
1,1-Dichloroethane	7-Jan-15	0.1	0.108	0.092	0.116	0.093	0.111	0.114	0.112	0.107	106.49	0.010	0.031	3.24
1,1-Dichloroethylene	7-Jan-15	0.1	0.108	0.102	0.101	0.085	0.111	0.111	0.102	0.103	102.92	0.009	0.028	3.53
1,2-Dibromoethane	7-Jan-15	0.1	0.101	0.077	0.101	0.077	0.096	0.089	0.104	0.092	92.08	0.011	0.035	2.83
1,2-Dichloroethane	7-Jan-15	0.1	0.095	0.086	0.101	0.081	0.104	0.097	0.102	0.095	95.15	0.008	0.026	3.81
1,2-Dichloropropane	7-Jan-15	0.1	0.119	0.119	0.145	0.123	0.143	0.162	0.137	0.136	135.47	0.016	0.050	1.99

Detection limits derived using the method described in 40 CFR Part 136, Appendix B

Method: TO-15 (VTO14/15)
Instrument(s): GCMSW, GCMS3W, GCMS5W
Analyst: Pooled

Matrix: AIR
Quant Factor: 1.00
Study Period: January,2015

Cmpd./Element/Parm. Name	Analysis Date	Spike ppbv	Replicate Spikes R1 ppbv	R2 ppbv	R3 ppbv	R4 ppbv	R5 ppbv	R6 ppbv	R7 ppbv	X-Bar ppbv	X-Bar %Recov.	STD.Dev. ppbv	MDL	Spike/MDL Ratio
1,4-Dioxane	7-Jan-15	0.2	0.164	0.208	0.217	0.207	0.224	0.212	0.220	0.207	103.65	0.020	0.063	3.17
Dichlorodifluoromethane	7-Jan-15	0.1	0.125	0.103	0.125	0.096	0.126	0.113	0.112	0.114	114.38	0.012	0.037	2.72
Dichlorofluoromethane	3-Jan-15	0.2	0.221	0.227	0.227	0.227	0.226	0.239	0.242	0.230	114.92	0.008	0.024	8.36
Dibromochloromethane	7-Jan-15	0.1	0.102	0.087	0.110	0.075	0.107	0.106	0.108	0.099	99.41	0.013	0.041	2.42
Dibromomethane	7-Jan-15	0.2	0.195	0.202	0.204	0.217	0.197	0.203	0.208	0.204	101.84	0.007	0.023	8.74
trans-1,2-Dichloroethylene	7-Jan-15	0.2	0.173	0.176	0.191	0.185	0.181	0.185	0.188	0.183	91.36	0.006	0.020	9.88
cis-1,2-Dichloroethylene	7-Jan-15	0.1	0.104	0.085	0.095	0.085	0.101	0.102	0.093	0.095	94.96	0.008	0.025	4.04
cis-1,3-Dichloropropene	7-Jan-15	0.1	0.088	0.068	0.096	0.068	0.088	0.089	0.093	0.084	84.02	0.011	0.035	2.84
m-Dichlorobenzene	7-Jan-15	0.2	0.125	0.151	0.140	0.140	0.147	0.146	0.149	0.143	71.34	0.009	0.028	7.25
o-Dichlorobenzene	7-Jan-15	0.1	0.082	0.064	0.080	0.066	0.085	0.090	0.080	0.078	78.12	0.010	0.030	3.34
p-Dichlorobenzene	3-Jan-15	0.1	0.113	0.105	0.109	0.101	0.098	0.097	0.099	0.103	103.33	0.006	0.019	5.21
trans-1,3-Dichloropropene	7-Jan-15	0.1	0.070	0.078	0.083	0.067	0.084	0.078	0.082	0.077	77.42	0.007	0.020	4.90
Di-Isopropyl ether	7-Jan-15	0.1	0.086	0.082	0.089	0.081	0.093	0.076	0.096	0.086	86.21	0.007	0.022	4.59
2,3-Dimethylpentane	7-Jan-15	0.2	0.274	0.264	0.270	0.276	0.263	0.266	0.284	0.271	135.44	0.008	0.023	8.53
2,4-Dimethylpentane	7-Jan-15	0.2	0.190	0.198	0.207	0.198	0.200	0.195	0.209	0.200	99.80	0.007	0.021	9.77
Ethanol	7-Jan-15	0.2	0.334	0.401	0.403	0.423	0.387	0.325	0.375	0.378	189.08	0.036	0.114	1.75
Ethylbenzene	23-Jan-15	0.2	0.171	0.157	0.166	0.151	0.152	0.131	0.132	0.152	75.73	0.015	0.048	4.15
Ethyl Acetate	7-Jan-15	0.2	0.158	0.205	0.190	0.182	0.170	0.162	0.210	0.182	91.19	0.020	0.064	3.15
4-Ethyltoluene	7-Jan-15	0.2	0.143	0.147	0.154	0.161	0.160	0.153	0.161	0.154	77.02	0.007	0.022	9.12
Freon 113	7-Jan-15	0.1	0.100	0.093	0.108	0.084	0.107	0.106	0.104	0.100	100.16	0.009	0.027	3.71
Freon 114	7-Jan-15	0.2	0.213	0.234	0.217	0.222	0.226	0.215	0.230	0.222	111.19	0.008	0.025	8.02
Freon 115	7-Jan-15	0.1	0.127	0.113	0.122	0.106	0.108	0.133	0.118	0.118	118.23	0.010	0.031	3.21
Freon 123	7-Jan-15	0.2	0.209	0.214	0.216	0.219	0.212	0.210	0.228	0.215	107.67	0.007	0.021	9.58
Freon 123A	7-Jan-15	0.1	0.104	0.092	0.109	0.087	0.109	0.098	0.101	0.100	100.01	0.008	0.026	3.86
Freon 141B	7-Jan-15	0.2	0.209	0.216	0.222	0.218	0.219	0.206	0.229	0.217	108.49	0.008	0.025	8.06
Freon 142B	7-Jan-15	0.1	0.107	0.103	0.117	0.094	0.120	0.121	0.118	0.112	111.45	0.010	0.032	3.11
Freon 143a	3-Jan-15	0.1	0.116	0.093	0.116	0.119	0.062	0.115	0.119	0.106	105.72	0.021	0.067	1.50
Freon 152A	7-Jan-15	0.1	0.107	0.103	0.117	0.094	0.120	0.121	0.118	0.112	111.45	0.010	0.032	3.11
Heptane	7-Jan-15	0.2	0.242	0.246	0.241	0.222	0.244	0.231	0.248	0.239	119.55	0.009	0.029	6.80
Hexachlorobutadiene	7-Jan-15	0.2	0.147	0.171	0.176	0.175	0.173	0.160	0.171	0.168	83.78	0.011	0.033	6.08
Hexachloroethane	7-Jan-15	0.2	0.171	0.189	0.213	0.215	0.211	0.198	0.209	0.201	100.46	0.016	0.051	3.96
Hexane	7-Jan-15	0.1	0.106	0.092	0.102	0.084	0.106	0.107	0.099	0.100	99.56	0.009	0.028	3.63
2-Hexanone	23-Jan-15	0.2	0.130	0.126	0.110	0.108	0.107	0.092	0.097	0.110	54.91	0.014	0.044	4.55
Iodomethane	7-Jan-15	0.2	0.200	0.208	0.201	0.209	0.207	0.198	0.218	0.206	102.92	0.007	0.021	9.34

Detection limits derived using the method described in 40 CFR Part 136, Appendix B

Method: TO-15 (VTO14/15)
Instrument(s): GCMSW, GCMS3W, GCMS5W
Analyst: Pooled

Matrix: AIR
Quant Factor: 1.00
Study Period: January,2015

Cmpd./Element/Parm. Name	Analysis Date	Spike ppbv	Replicate Spikes R1 ppbv	R2 ppbv	R3 ppbv	R4 ppbv	R5 ppbv	R6 ppbv	R7 ppbv	X-Bar ppbv	X-Bar %Recov.	STD.Dev. ppbv	MDL	Spike/MDL Ratio
Isopropylbenzene	7-Jan-15	0.2	0.189	0.199	0.203	0.198	0.204	0.195	0.209	0.199	99.71	0.007	0.021	9.71
Isopropyl Alcohol	7-Jan-15	0.2	0.188	0.282	0.202	0.256	0.199	0.184	0.242	0.222	110.93	0.038	0.120	1.67
p-Isopropyltoluene	7-Jan-15	0.2	0.120	0.126	0.130	0.139	0.136	0.115	0.126	0.127	63.62	0.008	0.026	7.57
Methylene chloride	7-Jan-15	0.2	0.220	0.227	0.223	0.235	0.231	0.221	0.235	0.227	113.69	0.007	0.021	9.78
Methyl ethyl ketone	23-Jan-15	0.2	0.158	0.144	0.150	0.145	0.152	0.122	0.117	0.141	70.53	0.016	0.049	4.11
Methyl Isobutyl Ketone	7-Jan-15	0.2	0.144	0.150	0.147	0.153	0.171	0.151	0.154	0.153	76.36	0.009	0.027	7.39
Methyl Tert Butyl Ether	7-Jan-15	0.1	0.095	0.086	0.104	0.080	0.097	0.098	0.099	0.094	94.30	0.008	0.026	3.88
Methylmethacrylate	7-Jan-15	0.1	0.083	0.070	0.094	0.070	0.083	0.089	0.091	0.083	82.96	0.010	0.030	3.29
Naphthalene	3-Jan-15	0.1	0.129	0.105	0.102	0.093	0.087	0.083	0.081	0.097	97.15	0.017	0.053	1.89
Nonane	7-Jan-15	0.1	0.111	0.079	0.103	0.077	0.106	0.099	0.104	0.097	96.93	0.013	0.042	2.37
Octane	7-Jan-15	0.2	0.220	0.231	0.245	0.226	0.242	0.212	0.229	0.229	114.67	0.011	0.036	5.59
Pentane	23-Jan-15	0.2	0.186	0.208	0.201	0.165	0.190	0.180	0.167	0.185	92.69	0.016	0.051	3.93
n-Propylbenzene	7-Jan-15	0.2	0.165	0.152	0.162	0.173	0.167	0.154	0.158	0.162	80.80	0.007	0.023	8.63
Propylene	7-Jan-15	0.2	0.267	0.234	0.281	0.232	0.293	0.266	0.296	0.267	133.51	0.026	0.081	2.47
Styrene	7-Jan-15	0.1	0.082	0.065	0.078	0.060	0.078	0.079	0.076	0.074	74.00	0.008	0.026	3.89
1,1,1-Trichloroethane	7-Jan-15	0.2	0.199	0.198	0.221	0.210	0.221	0.202	0.215	0.209	104.71	0.010	0.032	6.35
1,1,1,2-Tetrachloroethane	7-Jan-15	0.2	0.189	0.213	0.226	0.216	0.203	0.207	0.217	0.210	105.06	0.012	0.037	5.36
1,1,2,2-Tetrachloroethane	7-Jan-15	0.2	0.188	0.192	0.206	0.206	0.205	0.201	0.217	0.202	101.04	0.010	0.030	6.57
1,1,2-Trichloroethane	7-Jan-15	0.2	0.179	0.190	0.200	0.198	0.209	0.188	0.209	0.196	98.08	0.011	0.036	5.63
1,2,4-Trichlorobenzene	3-Jan-15	0.1	0.115	0.098	0.095	0.084	0.083	0.077	0.076	0.090	89.76	0.014	0.044	2.28
1,2,3-Trichloropropane	7-Jan-15	0.1	0.098	0.079	0.106	0.073	0.097	0.101	0.098	0.093	93.22	0.012	0.039	2.59
1,2,4-Trimethylbenzene	7-Jan-15	0.2	0.146	0.153	0.162	0.164	0.156	0.153	0.167	0.157	78.65	0.007	0.023	8.68
1,3,5-Trimethylbenzene	7-Jan-15	0.2	0.160	0.164	0.178	0.186	0.169	0.173	0.182	0.173	86.54	0.010	0.030	6.65
2,2,4-Trimethylpentane	7-Jan-15	0.2	0.213	0.209	0.221	0.214	0.229	0.214	0.221	0.217	108.69	0.007	0.021	9.38
Tertiary Butyl Alcohol	23-Jan-15	0.2	0.205	0.205	0.206	0.204	0.216	0.178	0.174	0.198	99.21	0.016	0.050	4.02
Tetrachloroethylene	7-Jan-15	0.2	0.212	0.216	0.229	0.227	0.230	0.214	0.226	0.222	111.06	0.008	0.024	8.40
Tetrahydrofuran	23-Jan-15	0.2	0.141	0.130	0.114	0.116	0.113	0.106	0.101	0.117	58.55	0.014	0.043	4.61
Toluene	7-Jan-15	0.2	0.185	0.183	0.192	0.181	0.190	0.174	0.191	0.185	92.59	0.007	0.020	9.85
Trichloroethylene	7-Jan-15	0.2	0.209	0.197	0.205	0.214	0.212	0.202	0.221	0.209	104.30	0.008	0.025	7.86
Trichlorofluoromethane	7-Jan-15	0.2	0.222	0.226	0.226	0.226	0.230	0.224	0.241	0.228	113.92	0.007	0.020	9.85
Vinyl chloride	7-Jan-15	0.1	0.098	0.087	0.102	0.089	0.115	0.108	0.107	0.101	100.79	0.010	0.032	3.09
Vinyl Acetate	7-Jan-15	0.2	0.128	0.141	0.165	0.118	0.122	0.128	0.155	0.137	68.32	0.018	0.055	3.63
m,p-Xylene	7-Jan-15	0.4	0.361	0.363	0.377	0.374	0.377	0.349	0.391	0.370	92.58	0.014	0.043	9.25
o-Xylene	7-Jan-15	0.2	0.179	0.190	0.193	0.185	0.199	0.178	0.196	0.189	94.39	0.008	0.026	7.79

Detection limits derived using the method described in 40 CFR Part 136, Appendix B

Method: TO-15 (VTO14/15)
Instrument(s): GCMSW, GCMS3W, GCMS5W
Analyst: Pooled

Matrix: AIR
Quant Factor: 1.00
Study Period: January,2015

Cmpd./Element/Parm. Name	Analysis Date	Spike ppbv	Replicate Spikes R1 ppbv	R2 ppbv	R3 ppbv	R4 ppbv	R5 ppbv	R6 ppbv	R7 ppbv	X-Bar ppbv	X-Bar %Recov.	STD.Dev. ppbv	MDL	Spike/MDL Ratio
TVHC As Equiv Pentane	7-Jan-15	0.1	0.081	0.083	0.107	0.072	0.097	0.115	0.113	0.096	95.55	0.017	0.053	1.89
TVHC As Equiv Heptane	7-Jan-15	0.2	0.200	0.211	0.223	0.208	0.217	0.222	0.217	0.214	107.07	0.008	0.026	7.85
4-Bromofluorobenzene	24-Jan-15	0.1	10.32	10.39	10.09	10.32	10.11	10.19	10.06	10.21	10211.43	0.13	0.41	0.24

Detection limits derived using the method described in 40 CFR Part 136, Appendix B

New Jersey
ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Initial Calibration RT/ISTD Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W449-MB	5W11430.D	1	05/08/15	ML	n/a	n/a	V5W449

The QC reported here applies to the following samples: **Method:** TO-15

JB94203-1, JB94203-2, JB94203-3, JB94203-4, JB94203-5

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.032	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.031	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.030	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.032	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.020	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.022	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.020	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.026	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.029	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.032	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.022	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.031	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.029	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.028	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.025	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.032	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.031	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.035	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.026	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.050	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.037	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.041	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.020	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.025	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.035	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.028	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.030	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.019	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.020	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.17	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.048	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.064	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.022	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W449-MB	5W11430.D	1	05/08/15	ML	n/a	n/a	V5W449

The QC reported here applies to the following samples: **Method:** TO-15

JB94203-1, JB94203-2, JB94203-3, JB94203-4, JB94203-5

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.025	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.029	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.033	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.028	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.044	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.12	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.13	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.049	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.027	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.026	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.030	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.081	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.026	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.032	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.036	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.044	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.023	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.030	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.021	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.050	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.024	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.043	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.020	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.025	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.020	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.055	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.043	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.026	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.026	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W449-MB	5W11430.D	1	05/08/15	ML	n/a	n/a	V5W449

The QC reported here applies to the following samples: **Method:** TO-15

JB94203-1, JB94203-2, JB94203-3, JB94203-4, JB94203-5

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	96%	65-128%

Method Blank Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W450-MB	5W11460.D	1	05/09/15	ML	n/a	n/a	V5W450

The QC reported here applies to the following samples: **Method:** TO-15

JB94203-3, JB94203-4

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.032	ppbv		ND	0.48	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	97%	65-128%

Method Blank Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W451-MB	5W11483.D	1	05/11/15	ML	n/a	n/a	V5W451

The QC reported here applies to the following samples: **Method:** TO-15

JB94203-5

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.032	ppbv		ND	0.48	ug/m3
115-07-1	Propylene	ND	0.50	0.081	ppbv		ND	0.86	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.021	ppbv		ND	0.93	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	100%	65-128%

Method Blank Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W452-MB	5W11510.D	1	05/12/15	ML	n/a	n/a	V5W452

The QC reported here applies to the following samples: **Method:** TO-15

JB94203-2

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.032	ppbv		ND	0.48	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	98%	65-128%

Method Blank Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2039-MB	W51049.D	1	04/23/15	ML	n/a	n/a	VW2039

The QC reported here applies to the following samples: **Method:** TO-15

VW2039-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.032	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.031	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.030	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.032	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.020	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.022	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.020	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.026	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.029	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.032	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.022	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.031	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.029	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.028	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.025	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.032	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.031	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.035	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.026	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.050	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.037	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.041	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.020	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.025	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.035	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.028	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.030	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.019	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.020	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.17	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.048	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.064	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.022	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2039-MB	W51049.D	1	04/23/15	ML	n/a	n/a	VW2039

The QC reported here applies to the following samples: **Method:** TO-15

VW2039-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.025	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.029	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.033	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.028	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.044	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.12	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.13	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.049	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.027	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.026	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.030	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.081	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.026	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.032	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.036	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.044	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.023	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.030	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.021	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.050	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.024	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.043	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.020	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.025	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.020	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.055	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.043	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.026	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.026	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2039-MB	W51049.D	1	04/23/15	ML	n/a	n/a	VW2039

The QC reported here applies to the following samples: **Method:** TO-15

VW2039-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	98%	65-128%

Method Blank Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1792-MB	3W47227.D	1	04/27/15	YMH	n/a	n/a	V3W1792

The QC reported here applies to the following samples: **Method:** TO-15

V3W1792-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.032	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.031	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.030	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.032	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.020	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.022	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.020	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.026	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.029	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.032	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.022	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.031	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.029	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.028	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.025	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.032	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.031	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.035	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.026	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.050	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.037	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.041	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.020	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.025	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.035	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.028	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.030	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.019	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.020	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.17	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.048	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.064	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.022	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1792-MB	3W47227.D	1	04/27/15	YMH	n/a	n/a	V3W1792

The QC reported here applies to the following samples: **Method:** TO-15

V3W1792-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.025	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.029	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.033	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.028	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.044	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.12	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.13	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.049	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.027	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.026	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.030	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.081	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.026	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.032	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.036	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.044	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.023	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.030	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.021	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.050	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.024	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.043	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.020	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.025	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.020	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.055	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.043	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.026	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.026	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1792-MB	3W47227.D	1	04/27/15	YMH	n/a	n/a	V3W1792

The QC reported here applies to the following samples: **Method:** TO-15

V3W1792-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	88%	65-128%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W449-BS	5W11427.D	1	05/08/15	ML	n/a	n/a	V5W449
V5W449-BSD	5W11428.D	1	05/08/15	ML	n/a	n/a	V5W449

The QC reported here applies to the following samples: **Method:** TO-15

JB94203-1, JB94203-2, JB94203-3, JB94203-4, JB94203-5

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	10.4	104	10.4	104	0	70-130/30
106-99-0	1,3-Butadiene	10	11.2	112	11.0	110	2	70-130/30
71-43-2	Benzene	10	9.2	92	9.3	93	1	70-130/30
75-27-4	Bromodichloromethane	10	9.9	99	10.2	102	3	70-130/30
75-25-2	Bromoform	10	10.6	106	11.2	112	6	70-130/30
74-83-9	Bromomethane	10	10.4	104	10.7	107	3	70-130/30
593-60-2	Bromoethene	10	10.7	107	11.3	113	5	70-130/30
100-44-7	Benzyl Chloride	10	9.9	99	10.7	107	8	70-130/30
75-15-0	Carbon disulfide	10	10	100	10.0	100	0	70-130/30
108-90-7	Chlorobenzene	10	9.8	98	10.2	102	4	70-130/30
75-00-3	Chloroethane	10	10.8	108	10.9	109	1	70-130/30
67-66-3	Chloroform	10	9.5	95	9.7	97	2	70-130/30
74-87-3	Chloromethane	10	11.4	114	11.0	110	4	70-130/30
107-05-1	3-Chloropropene	10	10.1	101	10.2	102	1	70-130/30
95-49-8	2-Chlorotoluene	10	9.9	99	10.3	103	4	70-130/30
56-23-5	Carbon tetrachloride	10	9.4	94	9.7	97	3	70-130/30
110-82-7	Cyclohexane	10	9.3	93	9.4	94	1	70-130/30
75-34-3	1,1-Dichloroethane	10	9.4	94	9.6	96	2	70-130/30
75-35-4	1,1-Dichloroethylene	10	9.7	97	9.9	99	2	70-130/30
106-93-4	1,2-Dibromoethane	10	9.7	97	10.0	100	3	70-130/30
107-06-2	1,2-Dichloroethane	10	9.4	94	9.7	97	3	70-130/30
78-87-5	1,2-Dichloropropane	10	10.1	101	10.3	103	2	70-130/30
123-91-1	1,4-Dioxane	10	9.1	91	9.5	95	4	70-130/30
75-71-8	Dichlorodifluoromethane	10	9.9	99	9.9	99	0	70-130/30
124-48-1	Dibromochloromethane	10	10	100	10.3	103	3	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.5	95	9.6	96	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.5	95	9.6	96	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	9.6	96	10	100	4	70-130/30
541-73-1	m-Dichlorobenzene	10	10.1	101	10.6	106	5	70-130/30
95-50-1	o-Dichlorobenzene	10	10	100	10.5	105	5	70-130/30
106-46-7	p-Dichlorobenzene	10	10	100	10.5	105	5	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	9.8	98	10.0	100	2	70-130/30
64-17-5	Ethanol	10	9.4	94	9.5	95	1	70-130/30
100-41-4	Ethylbenzene	10	9.7	97	10.2	102	5	70-130/30
141-78-6	Ethyl Acetate	10	9.5	95	9.6	96	1	70-130/30
622-96-8	4-Ethyltoluene	10	10.1	101	10.5	105	4	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W449-BS	5W11427.D	1	05/08/15	ML	n/a	n/a	V5W449
V5W449-BSD	5W11428.D	1	05/08/15	ML	n/a	n/a	V5W449

The QC reported here applies to the following samples: **Method:** TO-15

JB94203-1, JB94203-2, JB94203-3, JB94203-4, JB94203-5

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	9.8	98	10.0	100	2	70-130/30
76-14-2	Freon 114	10	11.1	111	11.2	112	1	70-130/30
142-82-5	Heptane	10	10.0	100	10.2	102	2	70-130/30
87-68-3	Hexachlorobutadiene	10	9.1	91	9.4	94	3	70-130/30
110-54-3	Hexane	10	8.8	88	9.0	90	2	70-130/30
591-78-6	2-Hexanone	10	9.5	95	9.7	97	2	70-130/30
67-63-0	Isopropyl Alcohol	10	10.1	101	10.2	102	1	70-130/30
75-09-2	Methylene chloride	10	9.6	96	9.8	98	2	70-130/30
78-93-3	Methyl ethyl ketone	10	8.9	89	9.2	92	3	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	9.9	99	10.1	101	2	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	9.3	93	9.4	94	1	70-130/30
80-62-6	Methylmethacrylate	10	9.5	95	9.7	97	2	70-130/30
115-07-1	Propylene	10	9.7	97	9.3	93	4	70-130/30
100-42-5	Styrene	10	10.1	101	10.5	105	4	70-130/30
71-55-6	1,1,1-Trichloroethane	10	9.2	92	9.4	94	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10.3	103	10.7	107	4	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.9	99	10.2	102	3	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	9.8	98	10.4	104	6	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10.4	104	11.0	110	6	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	9.8	98	10.4	104	6	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	10.2	102	10.4	104	2	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	9.3	93	9.4	94	1	70-130/30
127-18-4	Tetrachloroethylene	10	10	100	10.2	102	2	70-130/30
109-99-9	Tetrahydrofuran	10	9.0	90	9.2	92	2	70-130/30
108-88-3	Toluene	10	9.6	96	9.9	99	3	70-130/30
79-01-6	Trichloroethylene	10	9.7	97	10	100	3	70-130/30
75-69-4	Trichlorofluoromethane	10	10.2	102	10.5	105	3	70-130/30
75-01-4	Vinyl chloride	10	11.2	112	11.3	113	1	70-130/30
108-05-4	Vinyl Acetate	10	10	100	10.2	102	2	70-130/30
	m,p-Xylene	20	19.2	96	19.9	100	4	70-130/30
95-47-6	o-Xylene	10	10.1	101	10.5	105	4	70-130/30
1330-20-7	Xylenes (total)	30	29.3	98	30.4	101	4	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W449-BS	5W11427.D	1	05/08/15	ML	n/a	n/a	V5W449
V5W449-BSD	5W11428.D	1	05/08/15	ML	n/a	n/a	V5W449

The QC reported here applies to the following samples: **Method:** TO-15

JB94203-1, JB94203-2, JB94203-3, JB94203-4, JB94203-5

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	98%	99%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W450-BS	5W11457.D	1	05/09/15	ML	n/a	n/a	V5W450
V5W450-BSD	5W11458.D	1	05/09/15	ML	n/a	n/a	V5W450

The QC reported here applies to the following samples: **Method:** TO-15

JB94203-3, JB94203-4

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	10.8	108	10.7	107	1	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	96%	98%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W451-BS	5W11480.D	1	05/11/15	ML	n/a	n/a	V5W451
V5W451-BSD	5W11481.D	1	05/11/15	ML	n/a	n/a	V5W451

The QC reported here applies to the following samples: **Method:** TO-15

JB94203-5

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	9.6	96	9.8	98	2	70-130/30
115-07-1	Propylene	10	8.5	85	8.6	86	1	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	9.7	97	10.1	101	4	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	99%	100%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W452-BS	5W11507.D	1	05/12/15	ML	n/a	n/a	V5W452
V5W452-BSD	5W11508.D	1	05/12/15	ML	n/a	n/a	V5W452

The QC reported here applies to the following samples: **Method:** TO-15

JB94203-2

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	11.3	113	10.6	106	6	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	99%	99%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2039-BS	W51046.D	1	04/23/15	ML	n/a	n/a	VW2039
VW2039-BSD	W51047.D	1	04/23/15	ML	n/a	n/a	VW2039

The QC reported here applies to the following samples: **Method:** TO-15

VW2039-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	8.4	84	8.0	80	5	70-130/30
106-99-0	1,3-Butadiene	10	10.6	106	9.9	99	7	70-130/30
71-43-2	Benzene	10	9.3	93	9.1	91	2	70-130/30
75-27-4	Bromodichloromethane	10	8.3	83	8.1	81	2	70-130/30
75-25-2	Bromoform	10	8.8	88	8.6	86	2	70-130/30
74-83-9	Bromomethane	10	10.9	109	10.0	100	9	70-130/30
593-60-2	Bromoethene	10	11.2	112	10.3	103	8	70-130/30
100-44-7	Benzyl Chloride	10	8.3	83	8.2	82	1	70-130/30
75-15-0	Carbon disulfide	10	10.5	105	9.8	98	7	70-130/30
108-90-7	Chlorobenzene	10	9.2	92	9.0	90	2	70-130/30
75-00-3	Chloroethane	10	10.9	109	9.9	99	10	70-130/30
67-66-3	Chloroform	10	8.3	83	7.8	78	6	70-130/30
74-87-3	Chloromethane	10	11.0	110	10.3	103	7	70-130/30
107-05-1	3-Chloropropene	10	10.5	105	9.9	99	6	70-130/30
95-49-8	2-Chlorotoluene	10	8.9	89	8.8	88	1	70-130/30
56-23-5	Carbon tetrachloride	10	7.6	76	7.0	70	8	70-130/30
110-82-7	Cyclohexane	10	9.4	94	8.8	88	7	70-130/30
75-34-3	1,1-Dichloroethane	10	9.7	97	9.0	90	7	70-130/30
75-35-4	1,1-Dichloroethylene	10	9.6	96	8.9	89	8	70-130/30
106-93-4	1,2-Dibromoethane	10	9.0	90	8.9	89	1	70-130/30
107-06-2	1,2-Dichloroethane	10	7.7	77	7.3	73	5	70-130/30
78-87-5	1,2-Dichloropropane	10	10.0	100	9.8	98	2	70-130/30
123-91-1	1,4-Dioxane	10	7.8	78	7.8	78	0	70-130/30
75-71-8	Dichlorodifluoromethane	10	8.7	87	8.1	81	7	70-130/30
124-48-1	Dibromochloromethane	10	8.8	88	8.7	87	1	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.0	90	8.2	82	9	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	8.6	86	7.9	79	8	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	9.1	91	8.9	89	2	70-130/30
541-73-1	m-Dichlorobenzene	10	8.5	85	8.3	83	2	70-130/30
95-50-1	o-Dichlorobenzene	10	8.3	83	8.0	80	4	70-130/30
106-46-7	p-Dichlorobenzene	10	8.5	85	8.3	83	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	8.3	83	8.0	80	4	70-130/30
64-17-5	Ethanol	10	8.4	84	8.0	80	5	70-130/30
100-41-4	Ethylbenzene	10	8.9	89	8.8	88	1	70-130/30
141-78-6	Ethyl Acetate	10	8.9	89	8.8	88	1	70-130/30
622-96-8	4-Ethyltoluene	10	8.5	85	8.4	84	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2039-BS	W51046.D	1	04/23/15	ML	n/a	n/a	VW2039
VW2039-BSD	W51047.D	1	04/23/15	ML	n/a	n/a	VW2039

The QC reported here applies to the following samples: **Method:** TO-15

VW2039-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	9.3	93	8.4	84	10	70-130/30
76-14-2	Freon 114	10	10.1	101	9.4	94	7	70-130/30
142-82-5	Heptane	10	9.1	91	8.8	88	3	70-130/30
87-68-3	Hexachlorobutadiene	10	7.8	78	7.7	77	1	70-130/30
110-54-3	Hexane	10	12.6	126	12.1	121	4	70-130/30
591-78-6	2-Hexanone	10	9.2	92	9.1	91	1	70-130/30
67-63-0	Isopropyl Alcohol	10	8.0	80	7.7	77	4	70-130/30
75-09-2	Methylene chloride	10	10.3	103	9.6	96	7	70-130/30
78-93-3	Methyl ethyl ketone	10	7.9	79	7.7	77	3	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	7.7	77	7.7	77	0	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	7.4	74	7.1	71	4	70-130/30
80-62-6	Methylmethacrylate	10	8.2	82	8.3	83	1	70-130/30
115-07-1	Propylene	10	9.2	92	8.6	86	7	70-130/30
100-42-5	Styrene	10	9.3	93	9.1	91	2	70-130/30
71-55-6	1,1,1-Trichloroethane	10	7.6	76	7.1	71	7	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	9.1	91	9.1	91	0	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.4	94	9.2	92	2	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	7.4	74	7.4	74	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	8.2	82	8.2	82	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	8.3	83	8.3	83	0	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	9.6	96	9.4	94	2	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	8.4	84	7.8	78	7	70-130/30
127-18-4	Tetrachloroethylene	10	8.8	88	8.7	87	1	70-130/30
109-99-9	Tetrahydrofuran	10	9.1	91	8.8	88	3	70-130/30
108-88-3	Toluene	10	9.0	90	8.8	88	2	70-130/30
79-01-6	Trichloroethylene	10	9.0	90	8.7	87	3	70-130/30
75-69-4	Trichlorofluoromethane	10	9.2	92	8.5	85	8	70-130/30
75-01-4	Vinyl chloride	10	11.1	111	10.4	104	7	70-130/30
108-05-4	Vinyl Acetate	10	9.3	93	8.9	89	4	70-130/30
	m,p-Xylene	20	18.2	91	17.9	90	2	70-130/30
95-47-6	o-Xylene	10	9.3	93	9.1	91	2	70-130/30
1330-20-7	Xylenes (total)	30	27.4	91	27.0	90	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2039-BS	W51046.D	1	04/23/15	ML	n/a	n/a	VW2039
VW2039-BSD	W51047.D	1	04/23/15	ML	n/a	n/a	VW2039

The QC reported here applies to the following samples: **Method:** TO-15

VW2039-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	102%	101%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1792-BS	3W47224.D	1	04/27/15	YMH	n/a	n/a	V3W1792
V3W1792-BSD	3W47225.D	1	04/27/15	YMH	n/a	n/a	V3W1792

The QC reported here applies to the following samples: **Method:** TO-15

V3W1792-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	9.1	91	8.6	86	6	70-130/30
106-99-0	1,3-Butadiene	10	9.6	96	9.4	94	2	70-130/30
71-43-2	Benzene	10	9.4	94	9.0	90	4	70-130/30
75-27-4	Bromodichloromethane	10	9.4	94	9.0	90	4	70-130/30
75-25-2	Bromoform	10	10.6	106	10.0	100	6	70-130/30
74-83-9	Bromomethane	10	9.3	93	9.1	91	2	70-130/30
593-60-2	Bromoethene	10	9.8	98	9.4	94	4	70-130/30
100-44-7	Benzyl Chloride	10	9.6	96	9.2	92	4	70-130/30
75-15-0	Carbon disulfide	10	9.6	96	9.3	93	3	70-130/30
108-90-7	Chlorobenzene	10	9.8	98	9.3	93	5	70-130/30
75-00-3	Chloroethane	10	9.1	91	9.0	90	1	70-130/30
67-66-3	Chloroform	10	9.3	93	8.7	87	7	70-130/30
74-87-3	Chloromethane	10	8.8	88	8.6	86	2	70-130/30
107-05-1	3-Chloropropene	10	9.9	99	9.5	95	4	70-130/30
95-49-8	2-Chlorotoluene	10	10.4	104	10	100	4	70-130/30
56-23-5	Carbon tetrachloride	10	9.2	92	8.8	88	4	70-130/30
110-82-7	Cyclohexane	10	9.1	91	9.1	91	0	70-130/30
75-34-3	1,1-Dichloroethane	10	9.2	92	8.9	89	3	70-130/30
75-35-4	1,1-Dichloroethylene	10	9.7	97	9.5	95	2	70-130/30
106-93-4	1,2-Dibromoethane	10	10.0	100	9.4	94	6	70-130/30
107-06-2	1,2-Dichloroethane	10	9.6	96	9.1	91	5	70-130/30
78-87-5	1,2-Dichloropropane	10	8.9	89	8.4	84	6	70-130/30
123-91-1	1,4-Dioxane	10	10.8	108	9.9	99	9	70-130/30
75-71-8	Dichlorodifluoromethane	10	8.9	89	8.6	86	3	70-130/30
124-48-1	Dibromochloromethane	10	10	100	9.4	94	6	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.7	97	9.4	94	3	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.7	97	9.3	93	4	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	9.8	98	9.2	92	6	70-130/30
541-73-1	m-Dichlorobenzene	10	10.3	103	9.8	98	5	70-130/30
95-50-1	o-Dichlorobenzene	10	10.0	100	9.5	95	5	70-130/30
106-46-7	p-Dichlorobenzene	10	9.7	97	9.3	93	4	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	9.9	99	9.4	94	5	70-130/30
64-17-5	Ethanol	10	10.2	102	9.5	95	7	70-130/30
100-41-4	Ethylbenzene	10	10.1	101	9.6	96	5	70-130/30
141-78-6	Ethyl Acetate	10	9.6	96	9.0	90	6	70-130/30
622-96-8	4-Ethyltoluene	10	10.9	109	10.5	105	4	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1792-BS	3W47224.D	1	04/27/15	YMH	n/a	n/a	V3W1792
V3W1792-BSD	3W47225.D	1	04/27/15	YMH	n/a	n/a	V3W1792

The QC reported here applies to the following samples: **Method:** TO-15

V3W1792-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	10.2	102	10	100	2	70-130/30
76-14-2	Freon 114	10	8.9	89	8.8	88	1	70-130/30
142-82-5	Heptane	10	9.3	93	9.0	90	3	70-130/30
87-68-3	Hexachlorobutadiene	10	10.4	104	10.2	102	2	70-130/30
110-54-3	Hexane	10	9.4	94	9.1	91	3	70-130/30
591-78-6	2-Hexanone	10	10.1	101	9.5	95	6	70-130/30
67-63-0	Isopropyl Alcohol	10	10.8	108	10	100	8	70-130/30
75-09-2	Methylene chloride	10	9.7	97	9.3	93	4	70-130/30
78-93-3	Methyl ethyl ketone	10	9.8	98	9.5	95	3	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	9.5	95	8.9	89	7	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	9.9	99	9.4	94	5	70-130/30
80-62-6	Methylmethacrylate	10	9.7	97	9.2	92	5	70-130/30
115-07-1	Propylene	10	9.1	91	8.8	88	3	70-130/30
100-42-5	Styrene	10	10.8	108	10.3	103	5	70-130/30
71-55-6	1,1,1-Trichloroethane	10	9.2	92	8.8	88	4	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10.1	101	9.7	97	4	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.6	96	9.1	91	5	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	9.0	90	8.3	83	8	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10.7	107	10.2	102	5	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	10.2	102	9.9	99	3	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	9.2	92	8.8	88	4	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	11.1	111	10.3	103	7	70-130/30
127-18-4	Tetrachloroethylene	10	9.4	94	9.0	90	4	70-130/30
109-99-9	Tetrahydrofuran	10	9.8	98	9.3	93	5	70-130/30
108-88-3	Toluene	10	9.1	91	8.5	85	7	70-130/30
79-01-6	Trichloroethylene	10	8.9	89	8.7	87	2	70-130/30
75-69-4	Trichlorofluoromethane	10	9.4	94	9.2	92	2	70-130/30
75-01-4	Vinyl chloride	10	9.0	90	9.0	90	0	70-130/30
108-05-4	Vinyl Acetate	10	10.2	102	10.1	101	1	70-130/30
	m,p-Xylene	20	20.3	102	19.4	97	5	70-130/30
95-47-6	o-Xylene	10	10.4	104	9.7	97	7	70-130/30
1330-20-7	Xylenes (total)	30	30.7	102	29.1	97	5	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1792-BS	3W47224.D	1	04/27/15	YMH	n/a	n/a	V3W1792
V3W1792-BSD	3W47225.D	1	04/27/15	YMH	n/a	n/a	V3W1792

The QC reported here applies to the following samples: **Method:** TO-15

V3W1792-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	103%	105%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB94203-1DUP	5W11438.D	1	05/08/15	ML	n/a	n/a	V5W449
JB94203-1	5W11437.D	1	05/08/15	ML	n/a	n/a	V5W449

The QC reported here applies to the following samples: **Method:** TO-15

JB94203-1, JB94203-2, JB94203-3, JB94203-4, JB94203-5

CAS No.	Compound	JB94203-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone	177	E	168	E	5	27
106-99-0	1,3-Butadiene	ND		ND		nc	20
71-43-2	Benzene	3.1		3.0		3	17
75-27-4	Bromodichloromethane	ND		ND		nc	20
75-25-2	Bromoform	ND		ND		nc	20
74-83-9	Bromomethane	ND		ND		nc	20
593-60-2	Bromoethene	ND		ND		nc	30
100-44-7	Benzyl Chloride	ND		ND		nc	20
75-15-0	Carbon disulfide	8.7		8.0		8	11
108-90-7	Chlorobenzene	ND		ND		nc	20
75-00-3	Chloroethane	0.43	J	0.42	J	2	20
67-66-3	Chloroform	0.39	J	0.38	J	3	12
74-87-3	Chloromethane	0.60	J	0.54	J	11	22
107-05-1	3-Chloropropene	ND		ND		nc	10
95-49-8	2-Chlorotoluene	ND		ND		nc	20
56-23-5	Carbon tetrachloride	ND		ND		nc	10
110-82-7	Cyclohexane	2.8		2.7		4	12
75-34-3	1,1-Dichloroethane	5.0		4.8		4	20
75-35-4	1,1-Dichloroethylene	ND		ND		nc	20
106-93-4	1,2-Dibromoethane	ND		ND		nc	20
107-06-2	1,2-Dichloroethane	ND		ND		nc	20
78-87-5	1,2-Dichloropropane	ND		ND		nc	20
123-91-1	1,4-Dioxane	ND		ND		nc	20
75-71-8	Dichlorodifluoromethane	1.3		1.2		8	22
124-48-1	Dibromochloromethane	ND		ND		nc	20
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	10
156-59-2	cis-1,2-Dichloroethylene	2.1		2.0		5	10
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	20
541-73-1	m-Dichlorobenzene	ND		ND		nc	20
95-50-1	o-Dichlorobenzene	ND		ND		nc	10
106-46-7	p-Dichlorobenzene	ND		ND		nc	20
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	20
64-17-5	Ethanol	8.0		7.8		3	33
100-41-4	Ethylbenzene	3.2		3.2		0	15
141-78-6	Ethyl Acetate	1.9		1.8		5	20
622-96-8	4-Ethyltoluene	0.77	J	0.73	J	5	13

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB94203-1DUP	5W11438.D	1	05/08/15	ML	n/a	n/a	V5W449
JB94203-1	5W11437.D	1	05/08/15	ML	n/a	n/a	V5W449

The QC reported here applies to the following samples: **Method:** TO-15

JB94203-1, JB94203-2, JB94203-3, JB94203-4, JB94203-5

CAS No.	Compound	JB94203-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND		ND		nc	10
76-14-2	Freon 114	ND		ND		nc	20
142-82-5	Heptane	5.5		5.4		2	20
87-68-3	Hexachlorobutadiene	ND		ND		nc	20
110-54-3	Hexane	14.5		13.7		6	17
591-78-6	2-Hexanone	ND		ND		nc	20
67-63-0	Isopropyl Alcohol	2.6		2.6		0	26
75-09-2	Methylene chloride	3.6		3.4		6	26
78-93-3	Methyl ethyl ketone	4.3		4.2		2	21
108-10-1	Methyl Isobutyl Ketone	ND		ND		nc	20
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	20
80-62-6	Methylmethacrylate	ND		ND		nc	20
115-07-1	Propylene	43.9		36.0		20* [a]	16
100-42-5	Styrene	1.6		1.5		6	11
71-55-6	1,1,1-Trichloroethane	5.0		4.9		2	20
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	20
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	20
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	20
95-63-6	1,2,4-Trimethylbenzene	2.0		2.0		0	19
108-67-8	1,3,5-Trimethylbenzene	0.95		0.92		3	13
540-84-1	2,2,4-Trimethylpentane	0.83		0.81		2	18
75-65-0	Tertiary Butyl Alcohol	3.2		3.1		3	21
127-18-4	Tetrachloroethylene	1.0		0.86		15	17
109-99-9	Tetrahydrofuran	ND		ND		nc	20
108-88-3	Toluene	37.0		35.7		4	20
79-01-6	Trichloroethylene	1.3		1.2		8	13
75-69-4	Trichlorofluoromethane	ND		ND		nc	21
75-01-4	Vinyl chloride	0.83		0.73	J	13	20
108-05-4	Vinyl Acetate	ND		ND		nc	20
	m,p-Xylene	13.7		13.4		2	26
95-47-6	o-Xylene	5.1		5.0		2	20
1330-20-7	Xylenes (total)	18.9		18.4		3	26

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB94203-1DUP	5W11438.D	1	05/08/15	ML	n/a	n/a	V5W449
JB94203-1	5W11437.D	1	05/08/15	ML	n/a	n/a	V5W449

The QC reported here applies to the following samples: **Method:** TO-15

JB94203-1, JB94203-2, JB94203-3, JB94203-4, JB94203-5

CAS No.	Surrogate Recoveries	DUP	JB94203-1	Limits
460-00-4	4-Bromofluorobenzene	101%	102%	65-128%

(a) Outside in house control limits.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB94245-1DUP	5W11470.D	1	05/09/15	ML	n/a	n/a	V5W450
JB94245-1	5W11469.D	1	05/09/15	ML	n/a	n/a	V5W450

The QC reported here applies to the following samples: **Method:** TO-15

JB94203-3, JB94203-4

CAS No.	Compound	JB94245-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone	6.8		6.9		1	27

CAS No.	Surrogate Recoveries	DUP	JB94245-1	Limits
460-00-4	4-Bromofluorobenzene	99%	100%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB94388-4DUP	5W11489.D	1	05/11/15	ML	n/a	n/a	V5W451
JB94388-4	5W11488.D	1	05/11/15	ML	n/a	n/a	V5W451

The QC reported here applies to the following samples: **Method:** TO-15

JB94203-5

CAS No.	Compound	JB94388-4 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone	528		536		2	27
115-07-1	Propylene	27.3		29.0		6	16
540-84-1	2,2,4-Trimethylpentane	4.0 U		ND		nc	18

CAS No.	Surrogate Recoveries	DUP	JB94388-4	Limits
460-00-4	4-Bromofluorobenzene	99%	99%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB94453-1DUP	5W11513.D	1	05/12/15	ML	n/a	n/a	V5W452
JB94453-1	5W11512.D	1	05/12/15	ML	n/a	n/a	V5W452

The QC reported here applies to the following samples: **Method:** TO-15

JB94203-2

CAS No.	Compound	JB94453-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone	6.6		6.8		3	27

CAS No.	Surrogate Recoveries	DUP	JB94453-1	Limits
460-00-4	4-Bromofluorobenzene	99%	98%	65-128%

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2039-SCC	W51056.D	1	04/23/15	ML	n/a	n/a	VW2039

The QC reported here (Summa A131) applies to the following samples: **Method:** TO-15

Batch CP7701 cleaned 04/17/15: JB94203-1(A827), JB94203-2(A089), JB94203-4(A463)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.032	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.031	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.030	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.032	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.020	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.022	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.020	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.026	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.029	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.032	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.022	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.031	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.029	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.028	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.025	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.032	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.031	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.035	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.026	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.050	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.037	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.041	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.020	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.025	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.035	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.028	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.030	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.019	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.020	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.17	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.048	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.064	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.022	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2039-SCC	W51056.D	1	04/23/15	ML	n/a	n/a	VW2039

The QC reported here (Summa A131) applies to the following samples: **Method:** TO-15

Batch CP7701 cleaned 04/17/15: JB94203-1(A827), JB94203-2(A089), JB94203-4(A463)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.025	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.029	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.033	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.028	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.044	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.12	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.13	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.049	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.027	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.026	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.030	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.081	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.026	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.032	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.036	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.044	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.023	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.030	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.021	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.050	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.024	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.043	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.020	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.025	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.020	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.055	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.043	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.026	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.026	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2039-SCC	W51056.D	1	04/23/15	ML	n/a	n/a	VW2039

The QC reported here (Summa A131) applies to the following samples: **Method:** TO-15

Batch CP7701 cleaned 04/17/15: JB94203-1(A827), JB94203-2(A089), JB94203-4(A463)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	65-128%

Summa Cleaning Certification

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1792-SCC	3W47240.D	1	04/27/15	YMH	n/a	n/a	V3W1792

The QC reported here (Summa A259) applies to the following samples: **Method:** TO-15

Batch CP7707 cleaned 04/21/15: JB94203-3(A1021), JB94203-5(A647)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.032	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.031	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.030	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.032	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.020	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.022	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.020	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.026	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.029	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.032	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.022	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.031	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.029	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.028	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.025	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.032	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.031	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.035	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.026	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.050	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.037	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.041	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.020	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.025	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.035	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.028	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.030	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.019	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.020	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.17	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.048	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.064	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.022	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1792-SCC	3W47240.D	1	04/27/15	YMH	n/a	n/a	V3W1792

The QC reported here (Summa A259) applies to the following samples: **Method:** TO-15

Batch CP7707 cleaned 04/21/15: JB94203-3(A1021), JB94203-5(A647)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.025	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.029	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.033	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.028	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.044	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.12	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.13	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.049	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.027	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.026	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.030	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.081	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.026	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.032	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.036	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.044	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.023	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.030	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.021	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.050	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.024	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.043	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.020	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.025	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.020	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.055	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.043	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.026	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.026	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W1792-SCC	3W47240.D	1	04/27/15	YMH	n/a	n/a	V3W1792

The QC reported here (Summa A259) applies to the following samples: **Method:** TO-15

Batch CP7707 cleaned 04/21/15: JB94203-3(A1021), JB94203-5(A647)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	89%	65-128%

Instrument Performance Check (BFB)

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: V3W1782-BFB
Lab File ID: 3W46966.D
Instrument ID: GCMS3W
Injection Date: 04/14/15
Injection Time: 16:36

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	16821	18.3		Pass
75	30.0 - 66.0% of mass 95	43120	46.8		Pass
95	Base peak, 100% relative abundance	92125	100.0		Pass
96	5.0 - 9.0% of mass 95	6189	6.72		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	81181	88.1		Pass
175	4.0 - 9.01% of mass 174	6140	6.66	(7.56) [a]	Pass
176	93.0 - 101.0% of mass 174	79888	86.7	(98.4) [a]	Pass
177	5.0 - 9.0% of mass 176	5212	5.66	(6.52) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W1782-ICC1782	3W46967.D	04/14/15	17:16	00:40	Initial cal 10
V3W1782-IC1782	3W46968.D	04/14/15	17:56	01:20	Initial cal 5
V3W1782-IC1782	3W46969.D	04/14/15	18:36	02:00	Initial cal 0.5
ZZZZZZ	3W46970.D	04/14/15	19:16	02:40	(unrelated sample)
V3W1782-IC1782	3W46970.D	04/14/15	19:16	02:40	Initial cal 0.2
V3W1782-IC1782	3W46971.D	04/14/15	19:56	03:20	Initial cal 20
V3W1782-IC1782	3W46972.D	04/14/15	20:37	04:01	Initial cal 15
ZZZZZZ	3W46974.D	04/14/15	21:56	05:20	(unrelated sample)
V3W1782-IC1782	3W46974.D	04/14/15	21:56	05:20	Initial cal 0.1
ZZZZZZ	3W46975.D	04/14/15	22:36	06:00	(unrelated sample)
V3W1782-IC1782	3W46975.D	04/14/15	22:36	06:00	Initial cal 0.04
V3W1782-IC1782	3W46976.D	04/14/15	23:17	06:41	Initial cal 30
V3W1782-IC1782	3W46978.D	04/15/15	00:38	08:02	Initial cal 40
V3W1782-ICV1782	3W46980.D	04/15/15	01:57	09:21	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: V3W1792-BFB
Lab File ID: 3W47220.D
Instrument ID: GCMS3W
Injection Date: 04/27/15
Injection Time: 08:46

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	20845	19.9		Pass
75	30.0 - 66.0% of mass 95	50134	47.8		Pass
95	Base peak, 100% relative abundance	104914	100.0		Pass
96	5.0 - 9.0% of mass 95	6962	6.64		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	93536	89.2		Pass
175	4.0 - 9.01% of mass 174	7338	6.99	(7.85) [a]	Pass
176	93.0 - 101.0% of mass 174	91610	87.3	(97.9) [a]	Pass
177	5.0 - 9.0% of mass 176	6129	5.84	(6.69) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W1792-CC1782	3W47222.D	04/27/15	10:30	01:44	Continuing cal 10
V3W1792-BS	3W47224.D	04/27/15	11:49	03:03	Blank Spike
V3W1792-BSD	3W47225.D	04/27/15	12:41	03:55	Blank Spike Duplicate
V3W1792-MB	3W47227.D	04/27/15	14:02	05:16	Method Blank
ZZZZZZ	3W47229.D	04/27/15	15:22	06:36	(unrelated sample)
ZZZZZZ	3W47230.D	04/27/15	16:01	07:15	(unrelated sample)
ZZZZZZ	3W47232.D	04/27/15	17:26	08:40	(unrelated sample)
ZZZZZZ	3W47233.D	04/27/15	18:09	09:23	(unrelated sample)
ZZZZZZ	3W47234.D	04/27/15	18:49	10:03	(unrelated sample)
ZZZZZZ	3W47235.D	04/27/15	19:28	10:42	(unrelated sample)
ZZZZZZ	3W47237.D	04/27/15	20:47	12:01	(unrelated sample)
JB93105-2	3W47238.D	04/27/15	21:26	12:40	(used for QC only; not part of job JB94203)
JB93105-2DUP	3W47239.D	04/27/15	22:05	13:19	Duplicate
V3W1792-SCC	3W47240.D	04/27/15	22:47	14:01	Summa Cleaning Certification
ZZZZZZ	3W47241.D	04/27/15	23:30	14:44	(unrelated sample)
ZZZZZZ	3W47242.D	04/28/15	00:11	15:25	(unrelated sample)
ZZZZZZ	3W47243.D	04/28/15	00:54	16:08	(unrelated sample)
ZZZZZZ	3W47244.D	04/28/15	01:36	16:50	(unrelated sample)
ZZZZZZ	3W47245.D	04/28/15	02:18	17:32	(unrelated sample)
ZZZZZZ	3W47246.D	04/28/15	02:59	18:13	(unrelated sample)
ZZZZZZ	3W47247.D	04/28/15	03:41	18:55	(unrelated sample)
ZZZZZZ	3W47248.D	04/28/15	04:22	19:36	(unrelated sample)
ZZZZZZ	3W47249.D	04/28/15	05:04	20:18	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: V5W419-BFB
Lab File ID: 5W10667.D
Instrument ID: GCMS5W
Injection Date: 04/02/15
Injection Time: 07:06

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	27296	15.6		Pass
75	30.0 - 66.0% of mass 95	76888	44.1		Pass
95	Base peak, 100% relative abundance	174507	100.0		Pass
96	5.0 - 9.0% of mass 95	11427	6.55		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	146005	83.7		Pass
175	4.0 - 9.0% of mass 174	10579	6.06	(7.25) [a]	Pass
176	93.0 - 101.0% of mass 174	142315	81.6	(97.5) [a]	Pass
177	5.0 - 9.0% of mass 176	9281	5.32	(6.52) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W419-IC419	5W10668.D	04/02/15	07:47	00:41	Initial cal 0.04
ZZZZZZ	5W10668.D	04/02/15	07:47	00:41	(unrelated sample)
V5W419-IC419	5W10669.D	04/02/15	08:28	01:22	Initial cal 0.1
ZZZZZZ	5W10669.D	04/02/15	08:28	01:22	(unrelated sample)
V5W419-IC419	5W10670.D	04/02/15	09:10	02:04	Initial cal 0.2
ZZZZZZ	5W10670.D	04/02/15	09:10	02:04	(unrelated sample)
V5W419-IC419	5W10671.D	04/02/15	09:52	02:46	Initial cal 0.5
V5W419-IC419	5W10672.D	04/02/15	10:33	03:27	Initial cal 5
V5W419-ICC419	5W10673.D	04/02/15	11:15	04:09	Initial cal 10
V5W419-IC419	5W10674.D	04/02/15	11:57	04:51	Initial cal 20
V5W419-IC419	5W10675.D	04/02/15	12:41	05:35	Initial cal 30
V5W419-IC419	5W10677.D	04/02/15	14:10	07:04	Initial cal 40
V5W419-ICV419	5W10679.D	04/02/15	15:35	08:29	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: V5W449-BFB
Lab File ID: 5W11425.D
Instrument ID: GCMS5W
Injection Date: 05/08/15
Injection Time: 06:46

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	23885	17.6		Pass
75	30.0 - 66.0% of mass 95	62925	46.4		Pass
95	Base peak, 100% relative abundance	135522	100.0		Pass
96	5.0 - 9.0% of mass 95	9104	6.72		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	118901	87.7		Pass
175	4.0 - 9.01% of mass 174	8973	6.62	(7.55) [a]	Pass
176	93.0 - 101.0% of mass 174	114240	84.3	(96.1) [a]	Pass
177	5.0 - 9.0% of mass 176	7735	5.71	(6.77) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	5W11425.D	05/08/15	06:46	00:00	(unrelated sample)
V5W449-CC419	5W11426.D	05/08/15	07:27	00:41	Continuing cal 10
V5W449-BS	5W11427.D	05/08/15	08:22	01:36	Blank Spike
V5W449-BSD	5W11428.D	05/08/15	09:04	02:18	Blank Spike Duplicate
V5W449-MB	5W11430.D	05/08/15	10:32	03:46	Method Blank
ZZZZZZ	5W11431.D	05/08/15	11:19	04:33	(unrelated sample)
ZZZZZZ	5W11432.D	05/08/15	12:05	05:19	(unrelated sample)
ZZZZZZ	5W11433.D	05/08/15	12:51	06:05	(unrelated sample)
ZZZZZZ	5W11434.D	05/08/15	13:38	06:52	(unrelated sample)
ZZZZZZ	5W11435.D	05/08/15	14:20	07:34	(unrelated sample)
ZZZZZZ	5W11436.D	05/08/15	15:01	08:15	(unrelated sample)
JB94203-1	5W11437.D	05/08/15	15:44	08:58	SV-1
JB94203-1DUP	5W11438.D	05/08/15	16:28	09:42	Duplicate
JB94203-2	5W11439.D	05/08/15	17:10	10:24	SV-2
JB94203-3	5W11440.D	05/08/15	17:53	11:07	SV-3
JB94203-4	5W11441.D	05/08/15	18:35	11:49	SV-4
JB94203-5	5W11442.D	05/08/15	19:17	12:31	SV-5
ZZZZZZ	5W11443.D	05/08/15	19:58	13:12	(unrelated sample)
ZZZZZZ	5W11444.D	05/08/15	20:40	13:54	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: V5W450-BFB
Lab File ID: 5W11454.D
Instrument ID: GCMS5W
Injection Date: 05/09/15
Injection Time: 06:52

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	30088	19.5		Pass
75	30.0 - 66.0% of mass 95	73346	47.6		Pass
95	Base peak, 100% relative abundance	154154	100.0		Pass
96	5.0 - 9.0% of mass 95	10196	6.61		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	129514	84.0		Pass
175	4.0 - 9.01% of mass 174	9821	6.37	(7.58) [a]	Pass
176	93.0 - 101.0% of mass 174	125834	81.6	(97.2) [a]	Pass
177	5.0 - 9.0% of mass 176	8318	5.40	(6.61) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W450-CC419	5W11456.D	05/09/15	08:16	01:24	Continuing cal 10
V5W450-BS	5W11457.D	05/09/15	09:00	02:08	Blank Spike
V5W450-BSD	5W11458.D	05/09/15	09:41	02:49	Blank Spike Duplicate
V5W450-MB	5W11460.D	05/09/15	11:10	04:18	Method Blank
ZZZZZZ	5W11461.D	05/09/15	11:54	05:02	(unrelated sample)
ZZZZZZ	5W11462.D	05/09/15	12:36	05:44	(unrelated sample)
ZZZZZZ	5W11463.D	05/09/15	13:17	06:25	(unrelated sample)
ZZZZZZ	5W11464.D	05/09/15	14:32	07:40	(unrelated sample)
ZZZZZZ	5W11465.D	05/09/15	15:23	08:31	(unrelated sample)
ZZZZZZ	5W11466.D	05/09/15	16:05	09:13	(unrelated sample)
ZZZZZZ	5W11467.D	05/09/15	16:46	09:54	(unrelated sample)
ZZZZZZ	5W11468.D	05/09/15	17:29	10:37	(unrelated sample)
JB94245-1	5W11469.D	05/09/15	18:11	11:19	(used for QC only; not part of job JB94203)
JB94245-1DUP	5W11470.D	05/09/15	18:54	12:02	Duplicate
JB94203-2	5W11471.D	05/09/15	19:35	12:43	SV-2
JB94203-3	5W11472.D	05/09/15	20:16	13:24	SV-3
JB94203-4	5W11473.D	05/09/15	20:56	14:04	SV-4
V5W450-SCC	5W11475.D	05/09/15	22:28	15:36	Summa Cleaning Certification
ZZZZZZ	5W11477.D	05/09/15	23:49	16:57	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: V5W451-BFB
Lab File ID: 5W11478.D
Instrument ID: GCMS5W
Injection Date: 05/11/15
Injection Time: 07:33

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	22712	16.7		Pass
75	30.0 - 66.0% of mass 95	61826	45.4		Pass
95	Base peak, 100% relative abundance	136141	100.0		Pass
96	5.0 - 9.0% of mass 95	8925	6.56		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	126245	92.7		Pass
175	4.0 - 9.01% of mass 174	9410	6.91	(7.45) [a]	Pass
176	93.0 - 101.0% of mass 174	123282	90.6	(97.7) [a]	Pass
177	5.0 - 9.0% of mass 176	7942	5.83	(6.44) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W451-CC419	5W11479.D	05/11/15	08:27	00:54	Continuing cal 10
V5W451-BS	5W11480.D	05/11/15	09:13	01:40	Blank Spike
V5W451-BSD	5W11481.D	05/11/15	09:54	02:21	Blank Spike Duplicate
V5W451-MB	5W11483.D	05/11/15	11:41	04:08	Method Blank
ZZZZZZ	5W11484.D	05/11/15	12:26	04:53	(unrelated sample)
ZZZZZZ	5W11485.D	05/11/15	13:07	05:34	(unrelated sample)
ZZZZZZ	5W11486.D	05/11/15	13:48	06:15	(unrelated sample)
ZZZZZZ	5W11487.D	05/11/15	14:29	06:56	(unrelated sample)
JB94388-4	5W11488.D	05/11/15	15:10	07:37	(used for QC only; not part of job JB94203)
JB94388-4DUP	5W11489.D	05/11/15	15:52	08:19	Duplicate
ZZZZZZ	5W11490.D	05/11/15	16:34	09:01	(unrelated sample)
ZZZZZZ	5W11491.D	05/11/15	17:16	09:43	(unrelated sample)
JB94203-5	5W11492.D	05/11/15	17:59	10:26	SV-5
V5W451-SCC	5W11493.D	05/11/15	18:43	11:10	Summa Cleaning Certification
ZZZZZZ	5W11494.D	05/11/15	19:25	11:52	(unrelated sample)
ZZZZZZ	5W11495.D	05/11/15	20:06	12:33	(unrelated sample)
ZZZZZZ	5W11498.D	05/11/15	22:13	14:40	(unrelated sample)
ZZZZZZ	5W11499.D	05/11/15	22:55	15:22	(unrelated sample)
ZZZZZZ	5W11500.D	05/11/15	23:36	16:03	(unrelated sample)
ZZZZZZ	5W11502.D	05/12/15	01:02	17:29	(unrelated sample)
ZZZZZZ	5W11503.D	05/12/15	01:43	18:10	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: V5W452-BFB
Lab File ID: 5W11504.D
Instrument ID: GCMS5W
Injection Date: 05/12/15
Injection Time: 06:58

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	22328	17.1		Pass
75	30.0 - 66.0% of mass 95	60045	46.1		Pass
95	Base peak, 100% relative abundance	130202	100.0		Pass
96	5.0 - 9.0% of mass 95	8655	6.65		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	119312	91.6		Pass
175	4.0 - 9.01% of mass 174	8712	6.69	(7.30) [a]	Pass
176	93.0 - 101.0% of mass 174	115165	88.5	(96.5) [a]	Pass
177	5.0 - 9.0% of mass 176	7524	5.78	(6.53) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W452-CC419	5W11506.D	05/12/15	09:14	02:16	Continuing cal 10
V5W452-BS	5W11507.D	05/12/15	10:01	03:03	Blank Spike
V5W452-BSD	5W11508.D	05/12/15	10:45	03:47	Blank Spike Duplicate
V5W452-MB	5W11510.D	05/12/15	12:15	05:17	Method Blank
V5W452-SCC	5W11511.D	05/12/15	13:00	06:02	Summa Cleaning Certification
JB94453-1	5W11512.D	05/12/15	13:48	06:50	(used for QC only; not part of job JB94203)
JB94453-1DUP	5W11513.D	05/12/15	14:36	07:38	Duplicate
ZZZZZZ	5W11514.D	05/12/15	15:17	08:19	(unrelated sample)
ZZZZZZ	5W11515.D	05/12/15	15:58	09:00	(unrelated sample)
ZZZZZZ	5W11516.D	05/12/15	16:39	09:41	(unrelated sample)
ZZZZZZ	5W11517.D	05/12/15	17:20	10:22	(unrelated sample)
JB94203-2	5W11518.D	05/12/15	18:01	11:03	SV-2
ZZZZZZ	5W11519.D	05/12/15	18:42	11:44	(unrelated sample)
ZZZZZZ	5W11520.D	05/12/15	19:24	12:26	(unrelated sample)
ZZZZZZ	5W11521.D	05/12/15	20:05	13:07	(unrelated sample)
ZZZZZZ	5W11522.D	05/12/15	20:48	13:50	(unrelated sample)
ZZZZZZ	5W11523.D	05/12/15	21:29	14:31	(unrelated sample)
ZZZZZZ	5W11524.D	05/12/15	22:11	15:13	(unrelated sample)
ZZZZZZ	5W11525.D	05/12/15	22:54	15:56	(unrelated sample)
V5W452-SCC	5W11527.D	05/13/15	00:21	17:23	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: VW2031-BFB
Lab File ID: W50851.D
Instrument ID: GCMSW
Injection Date: 04/08/15
Injection Time: 20:23

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	10727	15.1		Pass
75	30.0 - 66.0% of mass 95	31557	44.4		Pass
95	Base peak, 100% relative abundance	71090	100.0		Pass
96	5.0 - 9.0% of mass 95	4747	6.68		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	73264	103.1		Pass
175	4.0 - 9.01% of mass 174	5655	7.95	(7.72) [a]	Pass
176	93.0 - 101.0% of mass 174	71568	100.7	(97.7) [a]	Pass
177	5.0 - 9.0% of mass 176	4745	6.67	(6.63) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VW2031-ICC2031	W50852.D	04/08/15	21:03	00:40	Initial cal 10
VW2031-IC2031	W50853.D	04/08/15	21:44	01:21	Initial cal 5
VW2031-IC2031	W50854.D	04/08/15	22:24	02:01	Initial cal 0.5
ZZZZZZ	W50855.D	04/08/15	23:05	02:42	(unrelated sample)
VW2031-IC2031	W50855.D	04/08/15	23:05	02:42	Initial cal 0.2
VW2031-IC2031	W50856.D	04/08/15	23:45	03:22	Initial cal 20
VW2031-IC2031	W50857.D	04/09/15	00:25	04:02	Initial cal 15
VW2031-IC2031	W50859.D	04/09/15	01:46	05:23	Initial cal 0.1
ZZZZZZ	W50859.D	04/09/15	01:46	05:23	(unrelated sample)
VW2031-IC2031	W50860.D	04/09/15	02:27	06:04	Initial cal 0.04
ZZZZZZ	W50860.D	04/09/15	02:27	06:04	(unrelated sample)
VW2031-IC2031	W50861.D	04/09/15	03:07	06:44	Initial cal 30
VW2031-IC2031	W50863.D	04/09/15	04:28	08:05	Initial cal 40
VW2031-ICV2031	W50865.D	04/09/15	05:48	09:25	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: VW2039-BFB
Lab File ID: W51044.D
Instrument ID: GCMSW
Injection Date: 04/23/15
Injection Time: 10:29

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	9071	14.4		Pass
75	30.0 - 66.0% of mass 95	26050	41.3		Pass
95	Base peak, 100% relative abundance	63013	100.0		Pass
96	5.0 - 9.0% of mass 95	4280	6.79		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	64970	103.1		Pass
175	4.0 - 9.01% of mass 174	4908	7.79	(7.55) [a]	Pass
176	93.0 - 101.0% of mass 174	63658	101.0	(98.0) [a]	Pass
177	5.0 - 9.0% of mass 176	4241	6.73	(6.66) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VW2039-CC2031	W51045.D	04/23/15	11:13	00:44	Continuing cal 10
VW2039-BS	W51046.D	04/23/15	11:57	01:28	Blank Spike
VW2039-BSD	W51047.D	04/23/15	12:37	02:08	Blank Spike Duplicate
VW2039-MB	W51049.D	04/23/15	14:02	03:33	Method Blank
ZZZZZZ	W51050.D	04/23/15	15:19	04:50	(unrelated sample)
ZZZZZZ	W51051.D	04/23/15	16:00	05:31	(unrelated sample)
ZZZZZZ	W51052.D	04/23/15	16:40	06:11	(unrelated sample)
ZZZZZZ	W51053.D	04/23/15	17:21	06:52	(unrelated sample)
ZZZZZZ	W51054.D	04/23/15	18:01	07:32	(unrelated sample)
ZZZZZZ	W51055.D	04/23/15	18:42	08:13	(unrelated sample)
VW2039-SCC	W51056.D	04/23/15	19:22	08:53	Summa Cleaning Certification
JB93068-1	W51057.D	04/23/15	20:03	09:34	(used for QC only; not part of job JB94203)
JB93068-1DUP	W51058.D	04/23/15	20:44	10:15	Duplicate
ZZZZZZ	W51059.D	04/23/15	21:24	10:55	(unrelated sample)
ZZZZZZ	W51060.D	04/23/15	22:05	11:36	(unrelated sample)
ZZZZZZ	W51061.D	04/23/15	22:46	12:17	(unrelated sample)
ZZZZZZ	W51062.D	04/23/15	23:26	12:57	(unrelated sample)
ZZZZZZ	W51063.D	04/24/15	00:07	13:38	(unrelated sample)
ZZZZZZ	W51064.D	04/24/15	00:47	14:18	(unrelated sample)
ZZZZZZ	W51065.D	04/24/15	01:28	14:59	(unrelated sample)
ZZZZZZ	W51066.D	04/24/15	02:08	15:39	(unrelated sample)
ZZZZZZ	W51067.D	04/24/15	02:49	16:20	(unrelated sample)
ZZZZZZ	W51068.D	04/24/15	03:29	17:00	(unrelated sample)
ZZZZZZ	W51069.D	04/24/15	04:10	17:41	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample:	VW2039-BFB	**Injection Date:**	04/23/15
Lab File ID:	W51044.D	**Injection Time:**	10:29
Instrument ID:	GCMSW		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	W51070.D	04/24/15	04:50	18:21	(unrelated sample)
ZZZZZZ	W51071.D	04/24/15	05:31	19:02	(unrelated sample)

Volatile Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	V3W1792-CC1782	**Injection Date:**	04/27/15
Lab File ID:	3W47222.D	**Injection Time:**	10:30
Instrument ID:	GCMS3W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	108651	7.16	481342	8.74	230601	12.88
Upper Limit [a]	152111	7.49	673879	9.07	322841	13.21
Lower Limit [b]	65191	6.83	288805	8.41	138361	12.55

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V3W1792-BS	113403	7.16	500772	8.74	235956	12.88
V3W1792-BSD	120025	7.16	525477	8.74	246231	12.88
V3W1792-MB	116172	7.16	474537	8.74	189485	12.88
ZZZZZZ	110096	7.16	463175	8.73	196435	12.88
ZZZZZZ	112344	7.16	483363	8.74	208522	12.88
ZZZZZZ	115012	7.16	483498	8.74	221909	12.88
ZZZZZZ	115168	7.16	491909	8.73	215646	12.88
ZZZZZZ	112305	7.16	483748	8.74	498368[c]	12.89
ZZZZZZ	117368	7.16	479403	8.74	200406	12.88
ZZZZZZ	123858	7.17	553589	8.75	332404[c]	12.88
JB93105-2	126202	7.16	555039	8.75	351814[c]	12.88
JB93105-2DUP	126033	7.16	558855	8.75	350753[c]	12.88
V3W1792-SCC	127488	7.15	528413	8.74	209512	12.88
ZZZZZZ	128845	7.16	521421	8.74	223709	12.88
ZZZZZZ	129646	7.16	536653	8.74	234753	12.88
ZZZZZZ	130739	7.16	528623	8.74	240189	12.88
ZZZZZZ	128696	7.16	549641	8.74	253130	12.88
ZZZZZZ	134100	7.16	571746	8.73	251346	12.88
ZZZZZZ	128883	7.15	557008	8.73	255049	12.88
ZZZZZZ	128696	7.16	554381	8.74	246598	12.88
ZZZZZZ	125607	7.16	519643	8.74	225919	12.88
ZZZZZZ	133608	7.16	545213	8.74	242081	12.88

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.
(c) Outside control limits due to matrix interference.

Volatile Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	V5W449-CC419	**Injection Date:**	05/08/15
Lab File ID:	5W11426.D	**Injection Time:**	07:27
Instrument ID:	GCMS5W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	141147	8.55	510745	10.78	279320	16.38
Upper Limit [a]	197606	8.88	715043	11.11	391048	16.71
Lower Limit [b]	84688	8.22	306447	10.45	167592	16.05

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V5W449-BS	137699	8.55	501689	10.78	269905	16.38
V5W449-BSD	135309	8.55	493243	10.78	262599	16.38
V5W449-MB	130605	8.55	467141	10.77	239111	16.38
ZZZZZZ	115593	8.55	420357	10.78	245418	16.38
ZZZZZZ	132564	8.55	487529	10.78	280563	16.38
ZZZZZZ	141699	8.55	523899	10.78	289445	16.38
ZZZZZZ	144616	8.55	529167	10.78	294385	16.38
ZZZZZZ	156032	8.55	570431	10.77	308532	16.38
ZZZZZZ	138280	8.55	488667	10.77	251027	16.38
JB94203-1	122709	8.55	436393	10.77	233590	16.38
JB94203-1DUP	128711	8.56	461636	10.78	237682	16.38
JB94203-2	122069	8.56	446514	10.78	232335	16.38
JB94203-3	123720	8.56	444011	10.78	234879	16.38
JB94203-4	134752	8.55	486425	10.77	251766	16.38
JB94203-5	142485	8.57	538267	10.78	304487	16.38
ZZZZZZ	155177	8.55	567839	10.77	303389	16.38
ZZZZZZ	145385	8.55	538511	10.77	274843	16.38

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Volatile Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	V5W450-CC419	**Injection Date:**	05/09/15
Lab File ID:	5W11456.D	**Injection Time:**	08:16
Instrument ID:	GCMS5W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	143161	8.55	520348	10.78	293233	16.38
Upper Limit [a]	200425	8.88	728487	11.11	410526	16.71
Lower Limit [b]	85897	8.22	312209	10.45	175940	16.05

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V5W450-BS	152402	8.56	561282	10.78	309706	16.38
V5W450-BSD	148834	8.56	548165	10.78	299435	16.38
V5W450-MB	148125	8.55	542815	10.78	284436	16.38
ZZZZZZ	144486	8.56	527925	10.78	282661	16.38
ZZZZZZ	139310	8.55	507950	10.78	271630	16.38
ZZZZZZ	126277	8.56	464418	10.78	264168	16.38
ZZZZZZ	107415	8.56	401116	10.78	232545	16.38
ZZZZZZ	122109	8.55	449804	10.78	252473	16.38
ZZZZZZ	114831	8.55	421292	10.78	234446	16.38
ZZZZZZ	124460	8.55	458038	10.78	245855	16.38
ZZZZZZ	125875	8.55	456512	10.77	249563	16.38
JB94245-1	111830	8.55	407903	10.78	221946	16.38
JB94245-1DUP	115316	8.56	417231	10.78	227483	16.38
JB94203-2 [c]	97141	8.57	370896	10.78	212396	16.38
JB94203-3	112015	8.55	404481	10.78	221947	16.38
JB94203-4	110311	8.56	406873	10.78	214157	16.38
V5W450-SCC	126215	8.55	458257	10.78	242242	16.38
ZZZZZZ	111495	8.55	397290	10.78	232018	16.38

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.
(c) Confirmation run.

Volatile Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	V5W451-CC419	**Injection Date:**	05/11/15
Lab File ID:	5W11479.D	**Injection Time:**	08:27
Instrument ID:	GCMS5W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	134148	8.56	484503	10.78	257733	16.38
Upper Limit [a]	187807	8.89	678304	11.11	360826	16.71
Lower Limit [b]	80489	8.23	290702	10.45	154640	16.05

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V5W451-BS	137900	8.55	498500	10.78	259660	16.38
V5W451-BSD	130109	8.55	469007	10.78	247682	16.38
V5W451-MB	128602	8.55	459323	10.77	234734	16.37
ZZZZZZ	133551	8.55	478436	10.77	248820	16.37
ZZZZZZ	120729	8.55	444462	10.77	231837	16.37
ZZZZZZ	124057	8.55	440918	10.77	234430	16.37
ZZZZZZ	118790	8.55	424236	10.77	224971	16.37
JB94388-4	126411	8.56	454454	10.78	234042	16.37
JB94388-4DUP	126918	8.55	448135	10.77	235256	16.37
ZZZZZZ	124045	8.55	443420	10.77	236693	16.37
ZZZZZZ	127774	8.56	459699	10.78	242966	16.37
JB94203-5	128242	8.57	469232	10.78	249036	16.37
V5W451-SCC	126849	8.55	449095	10.77	232082	16.37
ZZZZZZ	139697	8.56	530117	10.78	320930	16.38
ZZZZZZ	161600	8.55	589571	10.77	311479	16.37
ZZZZZZ	128538	8.55	446708	10.77	234834	16.37
ZZZZZZ	123543	8.55	442469	10.78	226923	16.37
ZZZZZZ	116800	8.55	408265	10.77	215532	16.37
ZZZZZZ	114251	8.55	397993	10.77	219778	16.37
ZZZZZZ	107512	8.55	381888	10.77	216428	16.37

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Volatile Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	V5W452-CC419	**Injection Date:**	05/12/15
Lab File ID:	5W11506.D	**Injection Time:**	09:14
Instrument ID:	GCMS5W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	123323	8.55	438645	10.77	242338	16.38
Upper Limit [a]	172652	8.88	614103	11.10	339273	16.71
Lower Limit [b]	73994	8.22	263187	10.44	145403	16.05

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V5W452-BS	124765	8.55	454854	10.78	245840	16.38
V5W452-BSD	124126	8.55	448506	10.77	244212	16.38
V5W452-MB	127707	8.55	453278	10.77	230410	16.37
V5W452-SCC	121938	8.55	430662	10.77	223092	16.37
JB94453-1	103666	8.55	366929	10.77	203503	16.37
JB94453-1DUP	102240	8.55	364083	10.77	199967	16.37
ZZZZZZ	122425	8.55	451489	10.77	241130	16.37
ZZZZZZ	115431	8.55	404565	10.77	210167	16.37
ZZZZZZ	114772	8.55	402011	10.77	213163	16.37
ZZZZZZ	116756	8.55	402459	10.77	210675	16.37
JB94203-2	115712	8.55	401953	10.77	204259	16.37
ZZZZZZ	114193	8.55	398591	10.78	209047	16.37
ZZZZZZ	109030	8.55	389492	10.77	207761	16.37
ZZZZZZ	114474	8.55	392003	10.77	208801	16.37
ZZZZZZ	113387	8.55	400497	10.77	216165	16.37
ZZZZZZ	113004	8.55	393553	10.77	203856	16.37
ZZZZZZ	122840	8.55	437083	10.77	219019	16.37
ZZZZZZ	116372	8.55	406351	10.77	210552	16.37
V5W452-SCC	138626	8.55	485446	10.77	242052	16.37

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Volatile Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Check Std:	VW2039-CC2031	**Injection Date:**	04/23/15
Lab File ID:	W51045.D	**Injection Time:**	11:13
Instrument ID:	GCMSW	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	95737	9.33	414580	11.07	183274	15.35
Upper Limit [a]	134032	9.66	580412	11.40	256584	15.68
Lower Limit [b]	57442	9.00	248748	10.74	109964	15.02

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VW2039-BS	90474	9.33	393671	11.07	171177	15.35
VW2039-BSD	96103	9.33	401314	11.07	172752	15.35
VW2039-MB	97912	9.33	493194	11.07	195898	15.36
ZZZZZZ	103071	9.33	494297	11.07	206869	15.35
ZZZZZZ	100356	9.33	486620	11.07	202822	15.36
ZZZZZZ	102260	9.33	488710	11.06	213365	15.35
ZZZZZZ	104565	9.33	506935	11.07	224517	15.35
ZZZZZZ	102377	9.33	500402	11.07	215092	15.35
ZZZZZZ	101263	9.33	505800	11.06	220884	15.35
VW2039-SCC	97677	9.33	471116	11.07	205770	15.36
JB93068-1	97141	9.33	476799	11.07	206491	15.36
JB93068-1DUP	96886	9.33	475773	11.06	210950	15.35
ZZZZZZ	97644	9.33	476335	11.07	218711	15.36
ZZZZZZ	98403	9.33	485832	11.07	221424	15.35
ZZZZZZ	107761	9.32	473645	11.06	211503	15.35
ZZZZZZ	95732	9.32	464454	11.07	207785	15.35
ZZZZZZ	104362	9.32	464616	11.07	207826	15.35
ZZZZZZ	127540	9.32	464191	11.07	207923	15.35
ZZZZZZ	91844	9.32	436030	11.06	190835	15.35
ZZZZZZ	99445	9.32	451320	11.06	200048	15.35
ZZZZZZ	90393	9.32	428157	11.07	187911	15.36
ZZZZZZ	110421	9.32	453717	11.06	201341	15.35
ZZZZZZ	91536	9.33	440353	11.07	195251	15.35
ZZZZZZ	110018	9.32	441948	11.07	200314	15.35
ZZZZZZ	88059	9.33	418685	11.06	178723	15.35

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1782-ICC1782	3W46967.D	04/14/15 17:16	YMH	10	GCMS3W	TO-15	Reporting this level
V3W1782-IC1782	3W46968.D	04/14/15 17:56	YMH	5	GCMS3W	TO-15	
V3W1782-IC1782	3W46969.D	04/14/15 18:36	YMH	0.5	GCMS3W	TO-15	
V3W1782-IC1782	3W46970.D	04/14/15 19:16	YMH	0.2	GCMS3W	TO-15	
V3W1782-IC1782	3W46971.D	04/14/15 19:56	YMH	20	GCMS3W	TO-15	
V3W1782-IC1782	3W46972.D	04/14/15 20:37	YMH	15	GCMS3W	TO-15	
V3W1782-IC1782	3W46974.D	04/14/15 21:56	YMH	0.1	GCMS3W	TO-15	
V3W1782-IC1782	3W46975.D	04/14/15 22:36	YMH	0.04	GCMS3W	TO-15	
V3W1782-IC1782	3W46976.D	04/14/15 23:17	YMH	30	GCMS3W	TO-15	
V3W1782-IC1782	3W46978.D	04/15/15 00:38	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.15	7.16	0.719	ok	0.720	0.660-0.780
Acrylonitrile	5.43	7.16	0.758	ok	0.760	0.700-0.820
Acetonitrile	5.04	7.16	0.704	ok	0.705	0.645-0.765
1,3-Butadiene	4.58	7.16	0.640	ok	0.639	0.579-0.699
Benzene	8.43	8.74	0.965	ok	0.964	0.904-1.024
Bromobenzene	14.76	12.88	1.146	ok	1.146	1.086-1.206
Bromodichloromethane	9.32	8.74	1.066	ok	1.066	1.006-1.126
Bromoform	13.59	12.88	1.055	ok	1.055	0.995-1.115
Bromomethane	4.74	7.16	0.662	ok	0.661	0.601-0.721
Bromoethene	5.01	7.16	0.700	ok	0.700	0.640-0.760
n-Butane	4.60	7.16	0.642	ok	0.643	0.583-0.703
Benzyl Chloride	16.20	12.88	1.258	ok	1.258	1.198-1.318
n-Butylbenzene	17.07	12.88	1.325	ok	1.325	1.265-1.385
sec-Butylbenzene	16.34	12.88	1.269	ok	1.268	1.208-1.328
tert-Butylbenzene	16.00	12.88	1.242	ok	1.242	1.182-1.302
Carbon disulfide	5.87	7.16	0.820	ok	0.819	0.759-0.879
Chlorobenzene	12.93	12.88	1.004	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.26	7.16	0.595	ok	0.594	0.534-0.654
Chloroethane	4.82	7.16	0.673	ok	0.673	0.613-0.733
Chloroform	7.25	7.16	1.013	ok	1.011	0.951-1.071
Chloromethane	4.41	7.16	0.616	ok	0.615	0.555-0.675
3-Chloropropene	5.75	7.16	0.803	ok	0.802	0.742-0.862
2-Chlorotoluene	15.20	12.88	1.180	ok	1.180	1.120-1.240
Carbon tetrachloride	8.55	7.16	1.194	ok	1.194	1.134-1.254
Cyclohexane	8.59	8.74	0.983	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.41	7.16	0.895	ok	0.894	0.834-0.954
1,1-Dichloroethylene	5.61	7.16	0.784	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.72	12.88	0.910	ok	0.910	0.850-0.970
1,2-Dichloroethane	7.83	7.16	1.094	ok	1.092	1.032-1.152
1,2-Dichloropropane	9.11	8.74	1.042	ok	1.042	0.982-1.102
1,4-Dioxane	9.38	8.74	1.073	ok	1.075	1.015-1.135
Dichlorodifluoromethane	4.31	7.16	0.602	ok	0.602	0.542-0.662
Dichlorofluoromethane	4.87	7.16	0.680	ok	0.679	0.619-0.739
Dibromochloromethane	11.52	12.88	0.894	ok	0.894	0.834-0.954
Dibromomethane	9.13	8.74	1.045	ok	1.045	0.985-1.105
trans-1,2-Dichloroethylene	6.26	7.16	0.874	ok	0.874	0.814-0.934
cis-1,2-Dichloroethylene	7.05	7.16	0.985	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.17	8.74	1.164	ok	1.163	1.103-1.223

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1782-ICC1782	3W46967.D	04/14/15 17:16	YMH	10	GCMS3W	TO-15	Reporting this level
V3W1782-IC1782	3W46968.D	04/14/15 17:56	YMH	5	GCMS3W	TO-15	
V3W1782-IC1782	3W46969.D	04/14/15 18:36	YMH	0.5	GCMS3W	TO-15	
V3W1782-IC1782	3W46970.D	04/14/15 19:16	YMH	0.2	GCMS3W	TO-15	
V3W1782-IC1782	3W46971.D	04/14/15 19:56	YMH	20	GCMS3W	TO-15	
V3W1782-IC1782	3W46972.D	04/14/15 20:37	YMH	15	GCMS3W	TO-15	
V3W1782-IC1782	3W46974.D	04/14/15 21:56	YMH	0.1	GCMS3W	TO-15	
V3W1782-IC1782	3W46975.D	04/14/15 22:36	YMH	0.04	GCMS3W	TO-15	
V3W1782-IC1782	3W46976.D	04/14/15 23:17	YMH	30	GCMS3W	TO-15	
V3W1782-IC1782	3W46978.D	04/15/15 00:38	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	16.20	12.88	1.258	ok	1.258	1.198-1.318
o-Dichlorobenzene	16.73	12.88	1.299	ok	1.298	1.238-1.358
p-Dichlorobenzene	16.29	12.88	1.265	ok	1.265	1.205-1.325
trans-1,3-Dichloropropene	10.67	8.74	1.221	ok	1.221	1.161-1.281
Di-Isopropyl ether	7.11	7.16	0.993	ok	0.993	0.933-1.053
2,3-Dimethylpentane	8.78	8.74	1.005	ok	1.004	0.944-1.064
2,4-Dimethylpentane	7.78	7.16	1.087	ok	1.086	1.026-1.146
Ethanol	4.91	7.16	0.686	ok	0.686	0.626-0.746
Ethylbenzene	13.31	12.88	1.033	ok	1.033	0.973-1.093
Ethyl Acetate	7.18	7.16	1.003	ok	1.002	0.942-1.062
4-Ethyltoluene	15.41	12.88	1.196	ok	1.196	1.136-1.256
Freon 113	5.82	7.16	0.813	ok	0.813	0.753-0.873
Freon 114	4.44	7.16	0.620	ok	0.620	0.560-0.680
Freon 123	5.08	7.16	0.709	ok	0.709	0.649-0.769
Freon 123A	5.11	7.16	0.714	ok	0.713	0.653-0.773
Freon 152A	4.23	7.16	0.591	ok	0.591	0.531-0.651
Heptane	9.54	8.74	1.092	ok	1.091	1.031-1.151
Hexachlorobutadiene	19.40	12.88	1.506	ok	1.506	1.446-1.566
Hexachloroethane	17.55	12.88	1.363	ok	1.362	1.302-1.422
Hexane	7.09	7.16	0.990	ok	0.990	0.930-1.050
2-Hexanone	11.34	12.88	0.880	ok	0.881	0.821-0.941
Iodomethane	5.57	7.16	0.778	ok	0.778	0.718-0.838
Isopropylbenzene	14.65	12.88	1.137	ok	1.137	1.077-1.197
Isopropyl Alcohol	5.29	7.16	0.739	ok	0.741	0.681-0.801
p-Isopropyltoluene	16.54	12.88	1.284	ok	1.284	1.224-1.344
Methylene chloride	5.69	7.16	0.795	ok	0.794	0.734-0.854
Methyl ethyl ketone	6.68	7.16	0.933	ok	0.934	0.874-0.994
Methyl Isobutyl Ketone	10.15	8.74	1.161	ok	1.162	1.102-1.222
Methyl Tert Butyl Ether	6.42	7.16	0.897	ok	0.898	0.838-0.958
Methylmethacrylate	9.55	8.74	1.093	ok	1.093	1.033-1.153
Naphthalene	18.96	12.88	1.472	ok	1.472	1.412-1.532
Nonane	14.21	12.88	1.103	ok	1.103	1.043-1.163
Octane	12.01	12.88	0.932	ok	0.932	0.872-0.992
Pentane	5.40	7.16	0.754	ok	0.754	0.694-0.814
n-Propylbenzene	15.24	12.88	1.183	ok	1.183	1.123-1.243
Propylene	4.27	7.16	0.596	ok	0.596	0.536-0.656
Styrene	13.90	12.88	1.079	ok	1.079	1.019-1.139
1,1,1-Trichloroethane	8.03	7.16	1.122	ok	1.120	1.060-1.180

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1782-ICC1782	3W46967.D	04/14/15 17:16	YMH	10	GCMS3W	TO-15	Reporting this level
V3W1782-IC1782	3W46968.D	04/14/15 17:56	YMH	5	GCMS3W	TO-15	
V3W1782-IC1782	3W46969.D	04/14/15 18:36	YMH	0.5	GCMS3W	TO-15	
V3W1782-IC1782	3W46970.D	04/14/15 19:16	YMH	0.2	GCMS3W	TO-15	
V3W1782-IC1782	3W46971.D	04/14/15 19:56	YMH	20	GCMS3W	TO-15	
V3W1782-IC1782	3W46972.D	04/14/15 20:37	YMH	15	GCMS3W	TO-15	
V3W1782-IC1782	3W46974.D	04/14/15 21:56	YMH	0.1	GCMS3W	TO-15	
V3W1782-IC1782	3W46975.D	04/14/15 22:36	YMH	0.04	GCMS3W	TO-15	
V3W1782-IC1782	3W46976.D	04/14/15 23:17	YMH	30	GCMS3W	TO-15	
V3W1782-IC1782	3W46978.D	04/15/15 00:38	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	12.91	12.88	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.02	12.88	1.089	ok	1.088	1.028-1.148
1,1,2-Trichloroethane	10.82	8.74	1.238	ok	1.238	1.178-1.298
1,2,4-Trichlorobenzene	18.83	12.88	1.462	ok	1.461	1.401-1.521
1,2,3-Trichloropropane	14.14	12.88	1.098	ok	1.098	1.038-1.158
1,2,4-Trimethylbenzene	16.01	12.88	1.243	ok	1.243	1.183-1.303
1,3,5-Trimethylbenzene	15.51	12.88	1.204	ok	1.204	1.144-1.264
2,2,4-Trimethylpentane	9.28	8.74	1.062	ok	1.061	1.001-1.121
Tertiary Butyl Alcohol	5.63	7.16	0.786	ok	0.789	0.729-0.849
Tetrachloroethylene	12.21	12.88	0.948	ok	0.948	0.888-1.008
Tetrahydrofuran	7.55	7.16	1.054	ok	1.056	0.996-1.116
Toluene	11.08	8.74	1.268	ok	1.267	1.207-1.327
Trichloroethylene	9.35	8.74	1.070	ok	1.069	1.009-1.129
Trichlorofluoromethane	5.23	7.16	0.730	ok	0.730	0.670-0.790
Vinyl chloride	4.52	7.16	0.631	ok	0.631	0.571-0.691
Vinyl Acetate	6.51	7.16	0.909	ok	0.909	0.849-0.969
m,p-Xylene	13.50	12.88	1.048	ok	1.048	0.988-1.108
o-Xylene	13.99	12.88	1.086	ok	1.086	1.026-1.146
TVHC As Equiv Pentane	5.40	7.16	0.754	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.54	8.74	1.092	ok	1.091	1.031-1.151

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.16	ok	7.17	6.84-7.50	112295	ok	115731	69439-162023
1,4-Difluorobenzene	8.74	ok	8.74	8.41-9.07	501152	ok	510675	306405-714945
Chlorobenzene-D5	12.88	ok	12.88	12.55-13.21	248358	ok	248338	149003-347673

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1782-ICC1782	3W46967.D	04/14/15 17:16	YMH	10	GCMS3W	TO-15	
V3W1782-IC1782	3W46968.D	04/14/15 17:56	YMH	5	GCMS3W	TO-15	Reporting this level
V3W1782-IC1782	3W46969.D	04/14/15 18:36	YMH	0.5	GCMS3W	TO-15	
V3W1782-IC1782	3W46970.D	04/14/15 19:16	YMH	0.2	GCMS3W	TO-15	
V3W1782-IC1782	3W46971.D	04/14/15 19:56	YMH	20	GCMS3W	TO-15	
V3W1782-IC1782	3W46972.D	04/14/15 20:37	YMH	15	GCMS3W	TO-15	
V3W1782-IC1782	3W46974.D	04/14/15 21:56	YMH	0.1	GCMS3W	TO-15	
V3W1782-IC1782	3W46975.D	04/14/15 22:36	YMH	0.04	GCMS3W	TO-15	
V3W1782-IC1782	3W46976.D	04/14/15 23:17	YMH	30	GCMS3W	TO-15	
V3W1782-IC1782	3W46978.D	04/15/15 00:38	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.16	7.16	0.721	ok	0.720	0.660-0.780
Acrylonitrile	5.43	7.16	0.758	ok	0.760	0.700-0.820
Acetonitrile	5.05	7.16	0.705	ok	0.705	0.645-0.765
1,3-Butadiene	4.58	7.16	0.640	ok	0.639	0.579-0.699
Benzene	8.42	8.74	0.963	ok	0.964	0.904-1.024
Bromobenzene	14.76	12.88	1.146	ok	1.146	1.086-1.206
Bromodichloromethane	9.32	8.74	1.066	ok	1.066	1.006-1.126
Bromoform	13.58	12.88	1.054	ok	1.055	0.995-1.115
Bromomethane	4.74	7.16	0.662	ok	0.661	0.601-0.721
Bromoethene	5.02	7.16	0.701	ok	0.700	0.640-0.760
n-Butane	4.61	7.16	0.644	ok	0.643	0.583-0.703
Benzyl Chloride	16.20	12.88	1.258	ok	1.258	1.198-1.318
n-Butylbenzene	17.07	12.88	1.325	ok	1.325	1.265-1.385
sec-Butylbenzene	16.34	12.88	1.269	ok	1.268	1.208-1.328
tert-Butylbenzene	16.00	12.88	1.242	ok	1.242	1.182-1.302
Carbon disulfide	5.87	7.16	0.820	ok	0.819	0.759-0.879
Chlorobenzene	12.92	12.88	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.26	7.16	0.595	ok	0.594	0.534-0.654
Chloroethane	4.83	7.16	0.675	ok	0.673	0.613-0.733
Chloroform	7.24	7.16	1.011	ok	1.011	0.951-1.071
Chloromethane	4.41	7.16	0.616	ok	0.615	0.555-0.675
3-Chloropropene	5.75	7.16	0.803	ok	0.802	0.742-0.862
2-Chlorotoluene	15.20	12.88	1.180	ok	1.180	1.120-1.240
Carbon tetrachloride	8.55	7.16	1.194	ok	1.194	1.134-1.254
Cyclohexane	8.59	8.74	0.983	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.41	7.16	0.895	ok	0.894	0.834-0.954
1,1-Dichloroethylene	5.61	7.16	0.784	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.72	12.88	0.910	ok	0.910	0.850-0.970
1,2-Dichloroethane	7.82	7.16	1.092	ok	1.092	1.032-1.152
1,2-Dichloropropane	9.10	8.74	1.041	ok	1.042	0.982-1.102
1,4-Dioxane	9.40	8.74	1.076	ok	1.075	1.015-1.135
Dichlorodifluoromethane	4.31	7.16	0.602	ok	0.602	0.542-0.662
Dichlorofluoromethane	4.87	7.16	0.680	ok	0.679	0.619-0.739
Dibromochloromethane	11.51	12.88	0.894	ok	0.894	0.834-0.954
Dibromomethane	9.13	8.74	1.045	ok	1.045	0.985-1.105
trans-1,2-Dichloroethylene	6.26	7.16	0.874	ok	0.874	0.814-0.934
cis-1,2-Dichloroethylene	7.05	7.16	0.985	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.16	8.74	1.162	ok	1.163	1.103-1.223

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1782-ICC1782	3W46967.D	04/14/15 17:16	YMH	10	GCMS3W	TO-15	
V3W1782-IC1782	3W46968.D	04/14/15 17:56	YMH	5	GCMS3W	TO-15	Reporting this level
V3W1782-IC1782	3W46969.D	04/14/15 18:36	YMH	0.5	GCMS3W	TO-15	
V3W1782-IC1782	3W46970.D	04/14/15 19:16	YMH	0.2	GCMS3W	TO-15	
V3W1782-IC1782	3W46971.D	04/14/15 19:56	YMH	20	GCMS3W	TO-15	
V3W1782-IC1782	3W46972.D	04/14/15 20:37	YMH	15	GCMS3W	TO-15	
V3W1782-IC1782	3W46974.D	04/14/15 21:56	YMH	0.1	GCMS3W	TO-15	
V3W1782-IC1782	3W46975.D	04/14/15 22:36	YMH	0.04	GCMS3W	TO-15	
V3W1782-IC1782	3W46976.D	04/14/15 23:17	YMH	30	GCMS3W	TO-15	
V3W1782-IC1782	3W46978.D	04/15/15 00:38	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	16.20	12.88	1.258	ok	1.258	1.198-1.318
o-Dichlorobenzene	16.72	12.88	1.298	ok	1.298	1.238-1.358
p-Dichlorobenzene	16.29	12.88	1.265	ok	1.265	1.205-1.325
trans-1,3-Dichloropropene	10.67	8.74	1.221	ok	1.221	1.161-1.281
Di-Isopropyl ether	7.11	7.16	0.993	ok	0.993	0.933-1.053
2,3-Dimethylpentane	8.78	8.74	1.005	ok	1.004	0.944-1.064
2,4-Dimethylpentane	7.78	7.16	1.087	ok	1.086	1.026-1.146
Ethanol	4.91	7.16	0.686	ok	0.686	0.626-0.746
Ethylbenzene	13.30	12.88	1.033	ok	1.033	0.973-1.093
Ethyl Acetate	7.17	7.16	1.001	ok	1.002	0.942-1.062
4-Ethyltoluene	15.41	12.88	1.196	ok	1.196	1.136-1.256
Freon 113	5.82	7.16	0.813	ok	0.813	0.753-0.873
Freon 114	4.44	7.16	0.620	ok	0.620	0.560-0.680
Freon 123	5.08	7.16	0.709	ok	0.709	0.649-0.769
Freon 123A	5.11	7.16	0.714	ok	0.713	0.653-0.773
Freon 152A	4.23	7.16	0.591	ok	0.591	0.531-0.651
Heptane	9.54	8.74	1.092	ok	1.091	1.031-1.151
Hexachlorobutadiene	19.40	12.88	1.506	ok	1.506	1.446-1.566
Hexachloroethane	17.55	12.88	1.363	ok	1.362	1.302-1.422
Hexane	7.09	7.16	0.990	ok	0.990	0.930-1.050
2-Hexanone	11.34	12.88	0.880	ok	0.881	0.821-0.941
Iodomethane	5.57	7.16	0.778	ok	0.778	0.718-0.838
Isopropylbenzene	14.65	12.88	1.137	ok	1.137	1.077-1.197
Isopropyl Alcohol	5.30	7.16	0.740	ok	0.741	0.681-0.801
p-Isopropyltoluene	16.54	12.88	1.284	ok	1.284	1.224-1.344
Methylene chloride	5.69	7.16	0.795	ok	0.794	0.734-0.854
Methyl ethyl ketone	6.68	7.16	0.933	ok	0.934	0.874-0.994
Methyl Isobutyl Ketone	10.15	8.74	1.161	ok	1.162	1.102-1.222
Methyl Tert Butyl Ether	6.42	7.16	0.897	ok	0.898	0.838-0.958
Methylmethacrylate	9.55	8.74	1.093	ok	1.093	1.033-1.153
Naphthalene	18.96	12.88	1.472	ok	1.472	1.412-1.532
Nonane	14.21	12.88	1.103	ok	1.103	1.043-1.163
Octane	12.01	12.88	0.932	ok	0.932	0.872-0.992
Pentane	5.40	7.16	0.754	ok	0.754	0.694-0.814
n-Propylbenzene	15.24	12.88	1.183	ok	1.183	1.123-1.243
Propylene	4.27	7.16	0.596	ok	0.596	0.536-0.656
Styrene	13.90	12.88	1.079	ok	1.079	1.019-1.139
1,1,1-Trichloroethane	8.03	7.16	1.122	ok	1.120	1.060-1.180

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1782-ICC1782	3W46967.D	04/14/15 17:16	YMH	10	GCMS3W	TO-15	
V3W1782-IC1782	3W46968.D	04/14/15 17:56	YMH	5	GCMS3W	TO-15	Reporting this level
V3W1782-IC1782	3W46969.D	04/14/15 18:36	YMH	0.5	GCMS3W	TO-15	
V3W1782-IC1782	3W46970.D	04/14/15 19:16	YMH	0.2	GCMS3W	TO-15	
V3W1782-IC1782	3W46971.D	04/14/15 19:56	YMH	20	GCMS3W	TO-15	
V3W1782-IC1782	3W46972.D	04/14/15 20:37	YMH	15	GCMS3W	TO-15	
V3W1782-IC1782	3W46974.D	04/14/15 21:56	YMH	0.1	GCMS3W	TO-15	
V3W1782-IC1782	3W46975.D	04/14/15 22:36	YMH	0.04	GCMS3W	TO-15	
V3W1782-IC1782	3W46976.D	04/14/15 23:17	YMH	30	GCMS3W	TO-15	
V3W1782-IC1782	3W46978.D	04/15/15 00:38	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	12.91	12.88	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.01	12.88	1.088	ok	1.088	1.028-1.148
1,1,2-Trichloroethane	10.82	8.74	1.238	ok	1.238	1.178-1.298
1,2,4-Trichlorobenzene	18.82	12.88	1.461	ok	1.461	1.401-1.521
1,2,3-Trichloropropane	14.14	12.88	1.098	ok	1.098	1.038-1.158
1,2,4-Trimethylbenzene	16.01	12.88	1.243	ok	1.243	1.183-1.303
1,3,5-Trimethylbenzene	15.50	12.88	1.203	ok	1.204	1.144-1.264
2,2,4-Trimethylpentane	9.27	8.74	1.061	ok	1.061	1.001-1.121
Tertiary Butyl Alcohol	5.63	7.16	0.786	ok	0.789	0.729-0.849
Tetrachloroethylene	12.21	12.88	0.948	ok	0.948	0.888-1.008
Tetrahydrofuran	7.55	7.16	1.054	ok	1.056	0.996-1.116
Toluene	11.08	8.74	1.268	ok	1.267	1.207-1.327
Trichloroethylene	9.34	8.74	1.069	ok	1.069	1.009-1.129
Trichlorofluoromethane	5.23	7.16	0.730	ok	0.730	0.670-0.790
Vinyl chloride	4.52	7.16	0.631	ok	0.631	0.571-0.691
Vinyl Acetate	6.51	7.16	0.909	ok	0.909	0.849-0.969
m,p-Xylene	13.49	12.88	1.047	ok	1.048	0.988-1.108
o-Xylene	14.00	12.88	1.087	ok	1.086	1.026-1.146
TVHC As Equiv Pentane	5.41	7.16	0.756	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.54	8.74	1.092	ok	1.091	1.031-1.151

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.16	ok	7.17	6.84-7.50	113399	ok	115731	69439-162023
1,4-Difluorobenzene	8.74	ok	8.74	8.41-9.07	502994	ok	510675	306405-714945
Chlorobenzene-D5	12.88	ok	12.88	12.55-13.21	239551	ok	248338	149003-347673

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1782-ICC1782	3W46967.D	04/14/15 17:16	YMH	10	GCMS3W	TO-15	
V3W1782-IC1782	3W46968.D	04/14/15 17:56	YMH	5	GCMS3W	TO-15	
V3W1782-IC1782	3W46969.D	04/14/15 18:36	YMH	0.5	GCMS3W	TO-15	Reporting this level
V3W1782-IC1782	3W46970.D	04/14/15 19:16	YMH	0.2	GCMS3W	TO-15	
V3W1782-IC1782	3W46971.D	04/14/15 19:56	YMH	20	GCMS3W	TO-15	
V3W1782-IC1782	3W46972.D	04/14/15 20:37	YMH	15	GCMS3W	TO-15	
V3W1782-IC1782	3W46974.D	04/14/15 21:56	YMH	0.1	GCMS3W	TO-15	
V3W1782-IC1782	3W46975.D	04/14/15 22:36	YMH	0.04	GCMS3W	TO-15	
V3W1782-IC1782	3W46976.D	04/14/15 23:17	YMH	30	GCMS3W	TO-15	
V3W1782-IC1782	3W46978.D	04/15/15 00:38	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.17	7.16	0.722	ok	0.720	0.660-0.780
Acrylonitrile	5.44	7.16	0.760	ok	0.760	0.700-0.820
Acetonitrile	5.06	7.16	0.707	ok	0.705	0.645-0.765
1,3-Butadiene	4.58	7.16	0.640	ok	0.639	0.579-0.699
Benzene	8.42	8.74	0.963	ok	0.964	0.904-1.024
Bromobenzene	14.76	12.88	1.146	ok	1.146	1.086-1.206
Bromodichloromethane	9.32	8.74	1.066	ok	1.066	1.006-1.126
Bromoform	13.58	12.88	1.054	ok	1.055	0.995-1.115
Bromomethane	4.74	7.16	0.662	ok	0.661	0.601-0.721
Bromoethene	5.02	7.16	0.701	ok	0.700	0.640-0.760
n-Butane	4.60	7.16	0.642	ok	0.643	0.583-0.703
Benzyl Chloride	16.20	12.88	1.258	ok	1.258	1.198-1.318
n-Butylbenzene	17.07	12.88	1.325	ok	1.325	1.265-1.385
sec-Butylbenzene	16.34	12.88	1.269	ok	1.268	1.208-1.328
tert-Butylbenzene	16.00	12.88	1.242	ok	1.242	1.182-1.302
Carbon disulfide	5.87	7.16	0.820	ok	0.819	0.759-0.879
Chlorobenzene	12.92	12.88	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.25	7.16	0.594	ok	0.594	0.534-0.654
Chloroethane	4.81	7.16	0.672	ok	0.673	0.613-0.733
Chloroform	7.24	7.16	1.011	ok	1.011	0.951-1.071
Chloromethane	4.41	7.16	0.616	ok	0.615	0.555-0.675
3-Chloropropene	5.75	7.16	0.803	ok	0.802	0.742-0.862
2-Chlorotoluene	15.20	12.88	1.180	ok	1.180	1.120-1.240
Carbon tetrachloride	8.54	7.16	1.193	ok	1.194	1.134-1.254
Cyclohexane	8.59	8.74	0.983	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.40	7.16	0.894	ok	0.894	0.834-0.954
1,1-Dichloroethylene	5.61	7.16	0.784	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.71	12.88	0.909	ok	0.910	0.850-0.970
1,2-Dichloroethane	7.82	7.16	1.092	ok	1.092	1.032-1.152
1,2-Dichloropropane	9.10	8.74	1.041	ok	1.042	0.982-1.102
1,4-Dioxane	9.45	8.74	1.081	ok	1.075	1.015-1.135
Dichlorodifluoromethane	4.31	7.16	0.602	ok	0.602	0.542-0.662
Dichlorofluoromethane	4.87	7.16	0.680	ok	0.679	0.619-0.739
Dibromochloromethane	11.51	12.88	0.894	ok	0.894	0.834-0.954
Dibromomethane	9.13	8.74	1.045	ok	1.045	0.985-1.105
trans-1,2-Dichloroethylene	6.26	7.16	0.874	ok	0.874	0.814-0.934
cis-1,2-Dichloroethylene	7.05	7.16	0.985	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.16	8.74	1.162	ok	1.163	1.103-1.223

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1782-ICC1782	3W46967.D	04/14/15 17:16	YMH	10	GCMS3W	TO-15	
V3W1782-IC1782	3W46968.D	04/14/15 17:56	YMH	5	GCMS3W	TO-15	
V3W1782-IC1782	3W46969.D	04/14/15 18:36	YMH	0.5	GCMS3W	TO-15	Reporting this level
V3W1782-IC1782	3W46970.D	04/14/15 19:16	YMH	0.2	GCMS3W	TO-15	
V3W1782-IC1782	3W46971.D	04/14/15 19:56	YMH	20	GCMS3W	TO-15	
V3W1782-IC1782	3W46972.D	04/14/15 20:37	YMH	15	GCMS3W	TO-15	
V3W1782-IC1782	3W46974.D	04/14/15 21:56	YMH	0.1	GCMS3W	TO-15	
V3W1782-IC1782	3W46975.D	04/14/15 22:36	YMH	0.04	GCMS3W	TO-15	
V3W1782-IC1782	3W46976.D	04/14/15 23:17	YMH	30	GCMS3W	TO-15	
V3W1782-IC1782	3W46978.D	04/15/15 00:38	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	16.20	12.88	1.258	ok	1.258	1.198-1.318
o-Dichlorobenzene	16.72	12.88	1.298	ok	1.298	1.238-1.358
p-Dichlorobenzene	16.29	12.88	1.265	ok	1.265	1.205-1.325
trans-1,3-Dichloropropene	10.67	8.74	1.221	ok	1.221	1.161-1.281
Di-Isopropyl ether	7.12	7.16	0.994	ok	0.993	0.933-1.053
2,3-Dimethylpentane	8.77	8.74	1.003	ok	1.004	0.944-1.064
2,4-Dimethylpentane	7.78	7.16	1.087	ok	1.086	1.026-1.146
Ethanol	4.92	7.16	0.687	ok	0.686	0.626-0.746
Ethylbenzene	13.30	12.88	1.033	ok	1.033	0.973-1.093
Ethyl Acetate	7.20	7.16	1.006	ok	1.002	0.942-1.062
4-Ethyltoluene	15.41	12.88	1.196	ok	1.196	1.136-1.256
Freon 113	5.82	7.16	0.813	ok	0.813	0.753-0.873
Freon 114	4.45	7.16	0.622	ok	0.620	0.560-0.680
Freon 123	5.08	7.16	0.709	ok	0.709	0.649-0.769
Freon 123A	5.11	7.16	0.714	ok	0.713	0.653-0.773
Freon 152A	4.23	7.16	0.591	ok	0.591	0.531-0.651
Heptane	9.53	8.74	1.090	ok	1.091	1.031-1.151
Hexachlorobutadiene	19.40	12.88	1.506	ok	1.506	1.446-1.566
Hexachloroethane	17.55	12.88	1.363	ok	1.362	1.302-1.422
Hexane	7.09	7.16	0.990	ok	0.990	0.930-1.050
2-Hexanone	11.36	12.88	0.882	ok	0.881	0.821-0.941
Iodomethane	5.57	7.16	0.778	ok	0.778	0.718-0.838
Isopropylbenzene	14.65	12.88	1.137	ok	1.137	1.077-1.197
Isopropyl Alcohol	5.32	7.16	0.743	ok	0.741	0.681-0.801
p-Isopropyltoluene	16.54	12.88	1.284	ok	1.284	1.224-1.344
Methylene chloride	5.68	7.16	0.793	ok	0.794	0.734-0.854
Methyl ethyl ketone	6.71	7.16	0.937	ok	0.934	0.874-0.994
Methyl Isobutyl Ketone	10.18	8.74	1.165	ok	1.162	1.102-1.222
Methyl Tert Butyl Ether	6.45	7.16	0.901	ok	0.898	0.838-0.958
Methylmethacrylate	9.56	8.74	1.094	ok	1.093	1.033-1.153
Naphthalene	18.96	12.88	1.472	ok	1.472	1.412-1.532
Nonane	14.20	12.88	1.102	ok	1.103	1.043-1.163
Octane	12.01	12.88	0.932	ok	0.932	0.872-0.992
Pentane	5.40	7.16	0.754	ok	0.754	0.694-0.814
n-Propylbenzene	15.24	12.88	1.183	ok	1.183	1.123-1.243
Propylene	4.27	7.16	0.596	ok	0.596	0.536-0.656
Styrene	13.90	12.88	1.079	ok	1.079	1.019-1.139
1,1,1-Trichloroethane	8.02	7.16	1.120	ok	1.120	1.060-1.180

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1782-ICC1782	3W46967.D	04/14/15 17:16	YMH	10	GCMS3W	TO-15	
V3W1782-IC1782	3W46968.D	04/14/15 17:56	YMH	5	GCMS3W	TO-15	
V3W1782-IC1782	3W46969.D	04/14/15 18:36	YMH	0.5	GCMS3W	TO-15	Reporting this level
V3W1782-IC1782	3W46970.D	04/14/15 19:16	YMH	0.2	GCMS3W	TO-15	
V3W1782-IC1782	3W46971.D	04/14/15 19:56	YMH	20	GCMS3W	TO-15	
V3W1782-IC1782	3W46972.D	04/14/15 20:37	YMH	15	GCMS3W	TO-15	
V3W1782-IC1782	3W46974.D	04/14/15 21:56	YMH	0.1	GCMS3W	TO-15	
V3W1782-IC1782	3W46975.D	04/14/15 22:36	YMH	0.04	GCMS3W	TO-15	
V3W1782-IC1782	3W46976.D	04/14/15 23:17	YMH	30	GCMS3W	TO-15	
V3W1782-IC1782	3W46978.D	04/15/15 00:38	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	12.91	12.88	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.01	12.88	1.088	ok	1.088	1.028-1.148
1,1,2-Trichloroethane	10.82	8.74	1.238	ok	1.238	1.178-1.298
1,2,4-Trichlorobenzene	18.83	12.88	1.462	ok	1.461	1.401-1.521
1,2,3-Trichloropropane	14.14	12.88	1.098	ok	1.098	1.038-1.158
1,2,4-Trimethylbenzene	16.01	12.88	1.243	ok	1.243	1.183-1.303
1,3,5-Trimethylbenzene	15.50	12.88	1.203	ok	1.204	1.144-1.264
2,2,4-Trimethylpentane	9.27	8.74	1.061	ok	1.061	1.001-1.121
Tertiary Butyl Alcohol	5.66	7.16	0.791	ok	0.789	0.729-0.849
Tetrachloroethylene	12.21	12.88	0.948	ok	0.948	0.888-1.008
Tetrahydrofuran	7.59	7.16	1.060	ok	1.056	0.996-1.116
Toluene	11.07	8.74	1.267	ok	1.267	1.207-1.327
Trichloroethylene	9.33	8.74	1.068	ok	1.069	1.009-1.129
Trichlorofluoromethane	5.23	7.16	0.730	ok	0.730	0.670-0.790
Vinyl chloride	4.52	7.16	0.631	ok	0.631	0.571-0.691
Vinyl Acetate	6.52	7.16	0.911	ok	0.909	0.849-0.969
m,p-Xylene	13.48	12.88	1.047	ok	1.048	0.988-1.108
o-Xylene	13.99	12.88	1.086	ok	1.086	1.026-1.146
TVHC As Equiv Pentane	5.40	7.16	0.754	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.54	8.74	1.092	ok	1.091	1.031-1.151

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.16	ok	7.17	6.84-7.50	111320	ok	115731	69439-162023
1,4-Difluorobenzene	8.74	ok	8.74	8.41-9.07	480441	ok	510675	306405-714945
Chlorobenzene-D5	12.88	ok	12.88	12.55-13.21	211753	ok	248338	149003-347673

Initial Calibration Retention Time/Internal Standard Area Summary

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V3W1782-ICC1782	3W46967.D	04/14/15 17:16	YMH	10	GCMS3W	TO-15	
V3W1782-IC1782	3W46968.D	04/14/15 17:56	YMH	5	GCMS3W	TO-15	
V3W1782-IC1782	3W46969.D	04/14/15 18:36	YMH	0.5	GCMS3W	TO-15	
V3W1782-IC1782	3W46970.D	04/14/15 19:16	YMH	0.2	GCMS3W	TO-15	Reporting this level
V3W1782-IC1782	3W46971.D	04/14/15 19:56	YMH	20	GCMS3W	TO-15	
V3W1782-IC1782	3W46972.D	04/14/15 20:37	YMH	15	GCMS3W	TO-15	
V3W1782-IC1782	3W46974.D	04/14/15 21:56	YMH	0.1	GCMS3W	TO-15	
V3W1782-IC1782	3W46975.D	04/14/15 22:36	YMH	0.04	GCMS3W	TO-15	
V3W1782-IC1782	3W46976.D	04/14/15 23:17	YMH	30	GCMS3W	TO-15	
V3W1782-IC1782	3W46978.D	04/15/15 00:38	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.19	7.16	0.725	ok	0.720	0.660-0.780
Acrylonitrile	5.47	7.16	0.764	ok	0.760	0.700-0.820
Acetonitrile	5.08	7.16	0.709	ok	0.705	0.645-0.765
1,3-Butadiene	4.59	7.16	0.641	ok	0.639	0.579-0.699
Benzene	8.43	8.74	0.965	ok	0.964	0.904-1.024
Bromobenzene	14.76	12.88	1.146	ok	1.146	1.086-1.206
Bromodichloromethane	9.32	8.74	1.066	ok	1.066	1.006-1.126
Bromoform	13.58	12.88	1.054	ok	1.055	0.995-1.115
Bromomethane	4.74	7.16	0.662	ok	0.661	0.601-0.721
Bromoethene	5.02	7.16	0.701	ok	0.700	0.640-0.760
n-Butane	4.61	7.16	0.644	ok	0.643	0.583-0.703
Benzyl Chloride	16.20	12.88	1.258	ok	1.258	1.198-1.318
n-Butylbenzene	17.07	12.88	1.325	ok	1.325	1.265-1.385
sec-Butylbenzene	16.34	12.88	1.269	ok	1.268	1.208-1.328
tert-Butylbenzene	16.00	12.88	1.242	ok	1.242	1.182-1.302
Carbon disulfide	5.87	7.16	0.820	ok	0.819	0.759-0.879
Chlorobenzene	12.93	12.88	1.004	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.26	7.16	0.595	ok	0.594	0.534-0.654
Chloroethane	4.83	7.16	0.675	ok	0.673	0.613-0.733
Chloroform	7.24	7.16	1.011	ok	1.011	0.951-1.071
Chloromethane	4.41	7.16	0.616	ok	0.615	0.555-0.675
3-Chloropropene	5.75	7.16	0.803	ok	0.802	0.742-0.862
2-Chlorotoluene	15.21	12.88	1.181	ok	1.180	1.120-1.240
Carbon tetrachloride	8.54	7.16	1.193	ok	1.194	1.134-1.254
Cyclohexane	8.59	8.74	0.983	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.41	7.16	0.895	ok	0.894	0.834-0.954
1,1-Dichloroethylene	5.62	7.16	0.785	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.72	12.88	0.910	ok	0.910	0.850-0.970
1,2-Dichloroethane	7.82	7.16	1.092	ok	1.092	1.032-1.152
1,2-Dichloropropane	9.10	8.74	1.041	ok	1.042	0.982-1.102
1,4-Dioxane	9.46	8.74	1.082	ok	1.075	1.015-1.135
Dichlorodifluoromethane	4.32	7.16	0.603	ok	0.602	0.542-0.662
Dichlorofluoromethane	4.87	7.16	0.680	ok	0.679	0.619-0.739
Dibromochloromethane	11.51	12.88	0.894	ok	0.894	0.834-0.954
Dibromomethane	9.13	8.74	1.045	ok	1.045	0.985-1.105
trans-1,2-Dichloroethylene	6.26	7.16	0.874	ok	0.874	0.814-0.934
cis-1,2-Dichloroethylene	7.05	7.16	0.985	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.16	8.74	1.162	ok	1.163	1.103-1.223

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
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Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1782-ICC1782	3W46967.D	04/14/15 17:16	YMH	10	GCMS3W	TO-15	
V3W1782-IC1782	3W46968.D	04/14/15 17:56	YMH	5	GCMS3W	TO-15	
V3W1782-IC1782	3W46969.D	04/14/15 18:36	YMH	0.5	GCMS3W	TO-15	
V3W1782-IC1782	3W46970.D	04/14/15 19:16	YMH	0.2	GCMS3W	TO-15	Reporting this level
V3W1782-IC1782	3W46971.D	04/14/15 19:56	YMH	20	GCMS3W	TO-15	
V3W1782-IC1782	3W46972.D	04/14/15 20:37	YMH	15	GCMS3W	TO-15	
V3W1782-IC1782	3W46974.D	04/14/15 21:56	YMH	0.1	GCMS3W	TO-15	
V3W1782-IC1782	3W46975.D	04/14/15 22:36	YMH	0.04	GCMS3W	TO-15	
V3W1782-IC1782	3W46976.D	04/14/15 23:17	YMH	30	GCMS3W	TO-15	
V3W1782-IC1782	3W46978.D	04/15/15 00:38	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	16.20	12.88	1.258	ok	1.258	1.198-1.318
o-Dichlorobenzene	16.72	12.88	1.298	ok	1.298	1.238-1.358
p-Dichlorobenzene	16.29	12.88	1.265	ok	1.265	1.205-1.325
trans-1,3-Dichloropropene	10.67	8.74	1.221	ok	1.221	1.161-1.281
Di-Isopropyl ether	7.13	7.16	0.996	ok	0.993	0.933-1.053
2,3-Dimethylpentane	8.77	8.74	1.003	ok	1.004	0.944-1.064
2,4-Dimethylpentane	7.78	7.16	1.087	ok	1.086	1.026-1.146
Ethanol	4.93	7.16	0.689	ok	0.686	0.626-0.746
Ethylbenzene	13.30	12.88	1.033	ok	1.033	0.973-1.093
Ethyl Acetate	7.20	7.16	1.006	ok	1.002	0.942-1.062
4-Ethyltoluene	15.41	12.88	1.196	ok	1.196	1.136-1.256
Freon 113	5.83	7.16	0.814	ok	0.813	0.753-0.873
Freon 114	4.45	7.16	0.622	ok	0.620	0.560-0.680
Freon 123	5.08	7.16	0.709	ok	0.709	0.649-0.769
Freon 123A	5.11	7.16	0.714	ok	0.713	0.653-0.773
Freon 152A	4.24	7.16	0.592	ok	0.591	0.531-0.651
Heptane	9.53	8.74	1.090	ok	1.091	1.031-1.151
Hexachlorobutadiene	19.40	12.88	1.506	ok	1.506	1.446-1.566
Hexachloroethane	17.55	12.88	1.363	ok	1.362	1.302-1.422
Hexane	7.09	7.16	0.990	ok	0.990	0.930-1.050
2-Hexanone	11.37	12.88	0.883	ok	0.881	0.821-0.941
Iodomethane	5.58	7.16	0.779	ok	0.778	0.718-0.838
Isopropylbenzene	14.65	12.88	1.137	ok	1.137	1.077-1.197
Isopropyl Alcohol	5.33	7.16	0.744	ok	0.741	0.681-0.801
p-Isopropyltoluene	16.54	12.88	1.284	ok	1.284	1.224-1.344
Methylene chloride	5.70	7.16	0.796	ok	0.794	0.734-0.854
Methyl ethyl ketone	6.72	7.16	0.939	ok	0.934	0.874-0.994
Methyl Isobutyl Ketone	10.19	8.74	1.166	ok	1.162	1.102-1.222
Methyl Tert Butyl Ether	6.45	7.16	0.901	ok	0.898	0.838-0.958
Methylmethacrylate	9.57	8.74	1.095	ok	1.093	1.033-1.153
Naphthalene	18.96	12.88	1.472	ok	1.472	1.412-1.532
Nonane	14.20	12.88	1.102	ok	1.103	1.043-1.163
Octane	12.01	12.88	0.932	ok	0.932	0.872-0.992
Pentane	5.40	7.16	0.754	ok	0.754	0.694-0.814
n-Propylbenzene	15.24	12.88	1.183	ok	1.183	1.123-1.243
Propylene	4.28	7.16	0.598	ok	0.596	0.536-0.656
Styrene	13.90	12.88	1.079	ok	1.079	1.019-1.139
1,1,1-Trichloroethane	8.03	7.16	1.122	ok	1.120	1.060-1.180

Initial Calibration Retention Time/Internal Standard Area Summary

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Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1782-ICC1782	3W46967.D	04/14/15 17:16	YMH	10	GCMS3W	TO-15	
V3W1782-IC1782	3W46968.D	04/14/15 17:56	YMH	5	GCMS3W	TO-15	
V3W1782-IC1782	3W46969.D	04/14/15 18:36	YMH	0.5	GCMS3W	TO-15	
V3W1782-IC1782	3W46970.D	04/14/15 19:16	YMH	0.2	GCMS3W	TO-15	Reporting this level
V3W1782-IC1782	3W46971.D	04/14/15 19:56	YMH	20	GCMS3W	TO-15	
V3W1782-IC1782	3W46972.D	04/14/15 20:37	YMH	15	GCMS3W	TO-15	
V3W1782-IC1782	3W46974.D	04/14/15 21:56	YMH	0.1	GCMS3W	TO-15	
V3W1782-IC1782	3W46975.D	04/14/15 22:36	YMH	0.04	GCMS3W	TO-15	
V3W1782-IC1782	3W46976.D	04/14/15 23:17	YMH	30	GCMS3W	TO-15	
V3W1782-IC1782	3W46978.D	04/15/15 00:38	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	12.91	12.88	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.02	12.88	1.089	ok	1.088	1.028-1.148
1,1,2-Trichloroethane	10.82	8.74	1.238	ok	1.238	1.178-1.298
1,2,4-Trichlorobenzene	18.82	12.88	1.461	ok	1.461	1.401-1.521
1,2,3-Trichloropropane	14.15	12.88	1.099	ok	1.098	1.038-1.158
1,2,4-Trimethylbenzene	16.01	12.88	1.243	ok	1.243	1.183-1.303
1,3,5-Trimethylbenzene	15.50	12.88	1.203	ok	1.204	1.144-1.264
2,2,4-Trimethylpentane	9.27	8.74	1.061	ok	1.061	1.001-1.121
Tertiary Butyl Alcohol	5.68	7.16	0.793	ok	0.789	0.729-0.849
Tetrachloroethylene	12.20	12.88	0.947	ok	0.948	0.888-1.008
Tetrahydrofuran	7.60	7.16	1.061	ok	1.056	0.996-1.116
Toluene	11.08	8.74	1.268	ok	1.267	1.207-1.327
Trichloroethylene	9.34	8.74	1.069	ok	1.069	1.009-1.129
Trichlorofluoromethane	5.24	7.16	0.732	ok	0.730	0.670-0.790
Vinyl chloride	4.52	7.16	0.631	ok	0.631	0.571-0.691
Vinyl Acetate	6.53	7.16	0.912	ok	0.909	0.849-0.969
m,p-Xylene	13.49	12.88	1.047	ok	1.048	0.988-1.108
o-Xylene	13.99	12.88	1.086	ok	1.086	1.026-1.146
TVHC As Equiv Pentane	5.40	7.16	0.754	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.54	8.74	1.092	ok	1.091	1.031-1.151

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.16	ok	7.17	6.84-7.50	111674	ok	115731	69439-162023
1,4-Difluorobenzene	8.74	ok	8.74	8.41-9.07	476405	ok	510675	306405-714945
Chlorobenzene-D5	12.88	ok	12.88	12.55-13.21	208985	ok	248338	149003-347673

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1782-ICC1782	3W46967.D	04/14/15 17:16	YMH	10	GCMS3W	TO-15	
V3W1782-IC1782	3W46968.D	04/14/15 17:56	YMH	5	GCMS3W	TO-15	
V3W1782-IC1782	3W46969.D	04/14/15 18:36	YMH	0.5	GCMS3W	TO-15	
V3W1782-IC1782	3W46970.D	04/14/15 19:16	YMH	0.2	GCMS3W	TO-15	
V3W1782-IC1782	3W46971.D	04/14/15 19:56	YMH	20	GCMS3W	TO-15	Reporting this level
V3W1782-IC1782	3W46972.D	04/14/15 20:37	YMH	15	GCMS3W	TO-15	
V3W1782-IC1782	3W46974.D	04/14/15 21:56	YMH	0.1	GCMS3W	TO-15	
V3W1782-IC1782	3W46975.D	04/14/15 22:36	YMH	0.04	GCMS3W	TO-15	
V3W1782-IC1782	3W46976.D	04/14/15 23:17	YMH	30	GCMS3W	TO-15	
V3W1782-IC1782	3W46978.D	04/15/15 00:38	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.15	7.17	0.718	ok	0.720	0.660-0.780
Acrylonitrile	5.44	7.17	0.759	ok	0.760	0.700-0.820
Acetonitrile	5.04	7.17	0.703	ok	0.705	0.645-0.765
1,3-Butadiene	4.58	7.17	0.639	ok	0.639	0.579-0.699
Benzene	8.43	8.75	0.963	ok	0.964	0.904-1.024
Bromobenzene	14.76	12.89	1.145	ok	1.146	1.086-1.206
Bromodichloromethane	9.33	8.75	1.066	ok	1.066	1.006-1.126
Bromoform	13.59	12.89	1.054	ok	1.055	0.995-1.115
Bromomethane	4.74	7.17	0.661	ok	0.661	0.601-0.721
Bromoethene	5.02	7.17	0.700	ok	0.700	0.640-0.760
n-Butane	4.60	7.17	0.642	ok	0.643	0.583-0.703
Benzyl Chloride	16.21	12.89	1.258	ok	1.258	1.198-1.318
n-Butylbenzene	17.07	12.89	1.324	ok	1.325	1.265-1.385
sec-Butylbenzene	16.34	12.89	1.268	ok	1.268	1.208-1.328
tert-Butylbenzene	16.00	12.89	1.241	ok	1.242	1.182-1.302
Carbon disulfide	5.87	7.17	0.819	ok	0.819	0.759-0.879
Chlorobenzene	12.93	12.89	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.26	7.17	0.594	ok	0.594	0.534-0.654
Chloroethane	4.82	7.17	0.672	ok	0.673	0.613-0.733
Chloroform	7.25	7.17	1.011	ok	1.011	0.951-1.071
Chloromethane	4.40	7.17	0.614	ok	0.615	0.555-0.675
3-Chloropropene	5.75	7.17	0.802	ok	0.802	0.742-0.862
2-Chlorotoluene	15.21	12.89	1.180	ok	1.180	1.120-1.240
Carbon tetrachloride	8.56	7.17	1.194	ok	1.194	1.134-1.254
Cyclohexane	8.59	8.75	0.982	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.41	7.17	0.894	ok	0.894	0.834-0.954
1,1-Dichloroethylene	5.61	7.17	0.782	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.73	12.89	0.910	ok	0.910	0.850-0.970
1,2-Dichloroethane	7.83	7.17	1.092	ok	1.092	1.032-1.152
1,2-Dichloropropane	9.11	8.75	1.041	ok	1.042	0.982-1.102
1,4-Dioxane	9.38	8.75	1.072	ok	1.075	1.015-1.135
Dichlorodifluoromethane	4.31	7.17	0.601	ok	0.602	0.542-0.662
Dichlorofluoromethane	4.87	7.17	0.679	ok	0.679	0.619-0.739
Dibromochloromethane	11.53	12.89	0.894	ok	0.894	0.834-0.954
Dibromomethane	9.14	8.75	1.045	ok	1.045	0.985-1.105
trans-1,2-Dichloroethylene	6.26	7.17	0.873	ok	0.874	0.814-0.934
cis-1,2-Dichloroethylene	7.05	7.17	0.983	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.17	8.75	1.162	ok	1.163	1.103-1.223

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1782-ICC1782	3W46967.D	04/14/15 17:16	YMH	10	GCMS3W	TO-15	
V3W1782-IC1782	3W46968.D	04/14/15 17:56	YMH	5	GCMS3W	TO-15	
V3W1782-IC1782	3W46969.D	04/14/15 18:36	YMH	0.5	GCMS3W	TO-15	
V3W1782-IC1782	3W46970.D	04/14/15 19:16	YMH	0.2	GCMS3W	TO-15	
V3W1782-IC1782	3W46971.D	04/14/15 19:56	YMH	20	GCMS3W	TO-15	Reporting this level
V3W1782-IC1782	3W46972.D	04/14/15 20:37	YMH	15	GCMS3W	TO-15	
V3W1782-IC1782	3W46974.D	04/14/15 21:56	YMH	0.1	GCMS3W	TO-15	
V3W1782-IC1782	3W46975.D	04/14/15 22:36	YMH	0.04	GCMS3W	TO-15	
V3W1782-IC1782	3W46976.D	04/14/15 23:17	YMH	30	GCMS3W	TO-15	
V3W1782-IC1782	3W46978.D	04/15/15 00:38	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	16.20	12.89	1.257	ok	1.258	1.198-1.318
o-Dichlorobenzene	16.73	12.89	1.298	ok	1.298	1.238-1.358
p-Dichlorobenzene	16.29	12.89	1.264	ok	1.265	1.205-1.325
trans-1,3-Dichloropropene	10.67	8.75	1.219	ok	1.221	1.161-1.281
Di-Isopropyl ether	7.11	7.17	0.992	ok	0.993	0.933-1.053
2,3-Dimethylpentane	8.78	8.75	1.003	ok	1.004	0.944-1.064
2,4-Dimethylpentane	7.78	7.17	1.085	ok	1.086	1.026-1.146
Ethanol	4.91	7.17	0.685	ok	0.686	0.626-0.746
Ethylbenzene	13.31	12.89	1.033	ok	1.033	0.973-1.093
Ethyl Acetate	7.18	7.17	1.001	ok	1.002	0.942-1.062
4-Ethyltoluene	15.41	12.89	1.196	ok	1.196	1.136-1.256
Freon 113	5.82	7.17	0.812	ok	0.813	0.753-0.873
Freon 114	4.44	7.17	0.619	ok	0.620	0.560-0.680
Freon 123	5.08	7.17	0.709	ok	0.709	0.649-0.769
Freon 123A	5.11	7.17	0.713	ok	0.713	0.653-0.773
Freon 152A	4.23	7.17	0.590	ok	0.591	0.531-0.651
Heptane	9.54	8.75	1.090	ok	1.091	1.031-1.151
Hexachlorobutadiene	19.40	12.89	1.505	ok	1.506	1.446-1.566
Hexachloroethane	17.55	12.89	1.362	ok	1.362	1.302-1.422
Hexane	7.10	7.17	0.990	ok	0.990	0.930-1.050
2-Hexanone	11.34	12.89	0.880	ok	0.881	0.821-0.941
Iodomethane	5.57	7.17	0.777	ok	0.778	0.718-0.838
Isopropylbenzene	14.65	12.89	1.137	ok	1.137	1.077-1.197
Isopropyl Alcohol	5.30	7.17	0.739	ok	0.741	0.681-0.801
p-Isopropyltoluene	16.55	12.89	1.284	ok	1.284	1.224-1.344
Methylene chloride	5.69	7.17	0.794	ok	0.794	0.734-0.854
Methyl ethyl ketone	6.68	7.17	0.932	ok	0.934	0.874-0.994
Methyl Isobutyl Ketone	10.15	8.75	1.160	ok	1.162	1.102-1.222
Methyl Tert Butyl Ether	6.42	7.17	0.895	ok	0.898	0.838-0.958
Methylmethacrylate	9.55	8.75	1.091	ok	1.093	1.033-1.153
Naphthalene	18.96	12.89	1.471	ok	1.472	1.412-1.532
Nonane	14.21	12.89	1.102	ok	1.103	1.043-1.163
Octane	12.02	12.89	0.933	ok	0.932	0.872-0.992
Pentane	5.40	7.17	0.753	ok	0.754	0.694-0.814
n-Propylbenzene	15.24	12.89	1.182	ok	1.183	1.123-1.243
Propylene	4.27	7.17	0.596	ok	0.596	0.536-0.656
Styrene	13.90	12.89	1.078	ok	1.079	1.019-1.139
1,1,1-Trichloroethane	8.03	7.17	1.120	ok	1.120	1.060-1.180

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1782-ICC1782	3W46967.D	04/14/15 17:16	YMH	10	GCMS3W	TO-15	
V3W1782-IC1782	3W46968.D	04/14/15 17:56	YMH	5	GCMS3W	TO-15	
V3W1782-IC1782	3W46969.D	04/14/15 18:36	YMH	0.5	GCMS3W	TO-15	
V3W1782-IC1782	3W46970.D	04/14/15 19:16	YMH	0.2	GCMS3W	TO-15	
V3W1782-IC1782	3W46971.D	04/14/15 19:56	YMH	20	GCMS3W	TO-15	Reporting this level
V3W1782-IC1782	3W46972.D	04/14/15 20:37	YMH	15	GCMS3W	TO-15	
V3W1782-IC1782	3W46974.D	04/14/15 21:56	YMH	0.1	GCMS3W	TO-15	
V3W1782-IC1782	3W46975.D	04/14/15 22:36	YMH	0.04	GCMS3W	TO-15	
V3W1782-IC1782	3W46976.D	04/14/15 23:17	YMH	30	GCMS3W	TO-15	
V3W1782-IC1782	3W46978.D	04/15/15 00:38	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	12.91	12.89	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.02	12.89	1.088	ok	1.088	1.028-1.148
1,1,2-Trichloroethane	10.83	8.75	1.238	ok	1.238	1.178-1.298
1,2,4-Trichlorobenzene	18.83	12.89	1.461	ok	1.461	1.401-1.521
1,2,3-Trichloropropane	14.15	12.89	1.098	ok	1.098	1.038-1.158
1,2,4-Trimethylbenzene	16.01	12.89	1.242	ok	1.243	1.183-1.303
1,3,5-Trimethylbenzene	15.51	12.89	1.203	ok	1.204	1.144-1.264
2,2,4-Trimethylpentane	9.29	8.75	1.062	ok	1.061	1.001-1.121
Tertiary Butyl Alcohol	5.64	7.17	0.787	ok	0.789	0.729-0.849
Tetrachloroethylene	12.21	12.89	0.947	ok	0.948	0.888-1.008
Tetrahydrofuran	7.55	7.17	1.053	ok	1.056	0.996-1.116
Toluene	11.09	8.75	1.267	ok	1.267	1.207-1.327
Trichloroethylene	9.35	8.75	1.069	ok	1.069	1.009-1.129
Trichlorofluoromethane	5.23	7.17	0.729	ok	0.730	0.670-0.790
Vinyl chloride	4.52	7.17	0.630	ok	0.631	0.571-0.691
Vinyl Acetate	6.52	7.17	0.909	ok	0.909	0.849-0.969
m,p-Xylene	13.50	12.89	1.047	ok	1.048	0.988-1.108
o-Xylene	14.00	12.89	1.086	ok	1.086	1.026-1.146
TVHC As Equiv Pentane	5.40	7.17	0.753	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.54	8.75	1.090	ok	1.091	1.031-1.151

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.17	ok	7.17	6.84-7.50	113563	ok	115731	69439-162023
1,4-Difluorobenzene	8.75	ok	8.74	8.41-9.07	512027	ok	510675	306405-714945
Chlorobenzene-D5	12.89	ok	12.88	12.55-13.21	271052	ok	248338	149003-347673

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1782-ICC1782	3W46967.D	04/14/15 17:16	YMH	10	GCMS3W	TO-15	
V3W1782-IC1782	3W46968.D	04/14/15 17:56	YMH	5	GCMS3W	TO-15	
V3W1782-IC1782	3W46969.D	04/14/15 18:36	YMH	0.5	GCMS3W	TO-15	
V3W1782-IC1782	3W46970.D	04/14/15 19:16	YMH	0.2	GCMS3W	TO-15	
V3W1782-IC1782	3W46971.D	04/14/15 19:56	YMH	20	GCMS3W	TO-15	
V3W1782-IC1782	3W46972.D	04/14/15 20:37	YMH	15	GCMS3W	TO-15	Reporting this level
V3W1782-IC1782	3W46974.D	04/14/15 21:56	YMH	0.1	GCMS3W	TO-15	
V3W1782-IC1782	3W46975.D	04/14/15 22:36	YMH	0.04	GCMS3W	TO-15	
V3W1782-IC1782	3W46976.D	04/14/15 23:17	YMH	30	GCMS3W	TO-15	
V3W1782-IC1782	3W46978.D	04/15/15 00:38	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.15	7.16	0.719	ok	0.720	0.660-0.780
Acrylonitrile	5.43	7.16	0.758	ok	0.760	0.700-0.820
Acetonitrile	5.04	7.16	0.704	ok	0.705	0.645-0.765
1,3-Butadiene	4.58	7.16	0.640	ok	0.639	0.579-0.699
Benzene	8.43	8.74	0.965	ok	0.964	0.904-1.024
Bromobenzene	14.76	12.89	1.145	ok	1.146	1.086-1.206
Bromodichloromethane	9.33	8.74	1.068	ok	1.066	1.006-1.126
Bromoform	13.59	12.89	1.054	ok	1.055	0.995-1.115
Bromomethane	4.74	7.16	0.662	ok	0.661	0.601-0.721
Bromoethene	5.02	7.16	0.701	ok	0.700	0.640-0.760
n-Butane	4.60	7.16	0.642	ok	0.643	0.583-0.703
Benzyl Chloride	16.21	12.89	1.258	ok	1.258	1.198-1.318
n-Butylbenzene	17.07	12.89	1.324	ok	1.325	1.265-1.385
sec-Butylbenzene	16.34	12.89	1.268	ok	1.268	1.208-1.328
tert-Butylbenzene	16.00	12.89	1.241	ok	1.242	1.182-1.302
Carbon disulfide	5.87	7.16	0.820	ok	0.819	0.759-0.879
Chlorobenzene	12.93	12.89	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.26	7.16	0.595	ok	0.594	0.534-0.654
Chloroethane	4.82	7.16	0.673	ok	0.673	0.613-0.733
Chloroform	7.25	7.16	1.013	ok	1.011	0.951-1.071
Chloromethane	4.40	7.16	0.615	ok	0.615	0.555-0.675
3-Chloropropene	5.75	7.16	0.803	ok	0.802	0.742-0.862
2-Chlorotoluene	15.21	12.89	1.180	ok	1.180	1.120-1.240
Carbon tetrachloride	8.56	7.16	1.196	ok	1.194	1.134-1.254
Cyclohexane	8.59	8.74	0.983	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.41	7.16	0.895	ok	0.894	0.834-0.954
1,1-Dichloroethylene	5.61	7.16	0.784	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.72	12.89	0.909	ok	0.910	0.850-0.970
1,2-Dichloroethane	7.83	7.16	1.094	ok	1.092	1.032-1.152
1,2-Dichloropropane	9.11	8.74	1.042	ok	1.042	0.982-1.102
1,4-Dioxane	9.38	8.74	1.073	ok	1.075	1.015-1.135
Dichlorodifluoromethane	4.31	7.16	0.602	ok	0.602	0.542-0.662
Dichlorofluoromethane	4.86	7.16	0.679	ok	0.679	0.619-0.739
Dibromochloromethane	11.52	12.89	0.894	ok	0.894	0.834-0.954
Dibromomethane	9.13	8.74	1.045	ok	1.045	0.985-1.105
trans-1,2-Dichloroethylene	6.26	7.16	0.874	ok	0.874	0.814-0.934
cis-1,2-Dichloroethylene	7.05	7.16	0.985	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.17	8.74	1.164	ok	1.163	1.103-1.223

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1782-ICC1782	3W46967.D	04/14/15 17:16	YMH	10	GCMS3W	TO-15	
V3W1782-IC1782	3W46968.D	04/14/15 17:56	YMH	5	GCMS3W	TO-15	
V3W1782-IC1782	3W46969.D	04/14/15 18:36	YMH	0.5	GCMS3W	TO-15	
V3W1782-IC1782	3W46970.D	04/14/15 19:16	YMH	0.2	GCMS3W	TO-15	
V3W1782-IC1782	3W46971.D	04/14/15 19:56	YMH	20	GCMS3W	TO-15	
V3W1782-IC1782	3W46972.D	04/14/15 20:37	YMH	15	GCMS3W	TO-15	Reporting this level
V3W1782-IC1782	3W46974.D	04/14/15 21:56	YMH	0.1	GCMS3W	TO-15	
V3W1782-IC1782	3W46975.D	04/14/15 22:36	YMH	0.04	GCMS3W	TO-15	
V3W1782-IC1782	3W46976.D	04/14/15 23:17	YMH	30	GCMS3W	TO-15	
V3W1782-IC1782	3W46978.D	04/15/15 00:38	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	16.20	12.89	1.257	ok	1.258	1.198-1.318
o-Dichlorobenzene	16.73	12.89	1.298	ok	1.298	1.238-1.358
p-Dichlorobenzene	16.29	12.89	1.264	ok	1.265	1.205-1.325
trans-1,3-Dichloropropene	10.67	8.74	1.221	ok	1.221	1.161-1.281
Di-Isopropyl ether	7.11	7.16	0.993	ok	0.993	0.933-1.053
2,3-Dimethylpentane	8.78	8.74	1.005	ok	1.004	0.944-1.064
2,4-Dimethylpentane	7.78	7.16	1.087	ok	1.086	1.026-1.146
Ethanol	4.91	7.16	0.686	ok	0.686	0.626-0.746
Ethylbenzene	13.31	12.89	1.033	ok	1.033	0.973-1.093
Ethyl Acetate	7.18	7.16	1.003	ok	1.002	0.942-1.062
4-Ethyltoluene	15.41	12.89	1.196	ok	1.196	1.136-1.256
Freon 113	5.82	7.16	0.813	ok	0.813	0.753-0.873
Freon 114	4.44	7.16	0.620	ok	0.620	0.560-0.680
Freon 123	5.08	7.16	0.709	ok	0.709	0.649-0.769
Freon 123A	5.11	7.16	0.714	ok	0.713	0.653-0.773
Freon 152A	4.23	7.16	0.591	ok	0.591	0.531-0.651
Heptane	9.54	8.74	1.092	ok	1.091	1.031-1.151
Hexachlorobutadiene	19.40	12.89	1.505	ok	1.506	1.446-1.566
Hexachloroethane	17.55	12.89	1.362	ok	1.362	1.302-1.422
Hexane	7.09	7.16	0.990	ok	0.990	0.930-1.050
2-Hexanone	11.34	12.89	0.880	ok	0.881	0.821-0.941
Iodomethane	5.57	7.16	0.778	ok	0.778	0.718-0.838
Isopropylbenzene	14.65	12.89	1.137	ok	1.137	1.077-1.197
Isopropyl Alcohol	5.30	7.16	0.740	ok	0.741	0.681-0.801
p-Isopropyltoluene	16.54	12.89	1.283	ok	1.284	1.224-1.344
Methylene chloride	5.69	7.16	0.795	ok	0.794	0.734-0.854
Methyl ethyl ketone	6.68	7.16	0.933	ok	0.934	0.874-0.994
Methyl Isobutyl Ketone	10.15	8.74	1.161	ok	1.162	1.102-1.222
Methyl Tert Butyl Ether	6.41	7.16	0.895	ok	0.898	0.838-0.958
Methylmethacrylate	9.55	8.74	1.093	ok	1.093	1.033-1.153
Naphthalene	18.96	12.89	1.471	ok	1.472	1.412-1.532
Nonane	14.21	12.89	1.102	ok	1.103	1.043-1.163
Octane	12.02	12.89	0.933	ok	0.932	0.872-0.992
Pentane	5.40	7.16	0.754	ok	0.754	0.694-0.814
n-Propylbenzene	15.24	12.89	1.182	ok	1.183	1.123-1.243
Propylene	4.27	7.16	0.596	ok	0.596	0.536-0.656
Styrene	13.90	12.89	1.078	ok	1.079	1.019-1.139
1,1,1-Trichloroethane	8.03	7.16	1.122	ok	1.120	1.060-1.180

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V3W1782-IC1782	3W46978.D	04/15/15 00:38	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	12.91	12.89	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.02	12.89	1.088	ok	1.088	1.028-1.148
1,1,2-Trichloroethane	10.83	8.74	1.239	ok	1.238	1.178-1.298
1,2,4-Trichlorobenzene	18.82	12.89	1.460	ok	1.461	1.401-1.521
1,2,3-Trichloropropane	14.15	12.89	1.098	ok	1.098	1.038-1.158
1,2,4-Trimethylbenzene	16.01	12.89	1.242	ok	1.243	1.183-1.303
1,3,5-Trimethylbenzene	15.51	12.89	1.203	ok	1.204	1.144-1.264
2,2,4-Trimethylpentane	9.28	8.74	1.062	ok	1.061	1.001-1.121
Tertiary Butyl Alcohol	5.63	7.16	0.786	ok	0.789	0.729-0.849
Tetrachloroethylene	12.21	12.89	0.947	ok	0.948	0.888-1.008
Tetrahydrofuran	7.55	7.16	1.054	ok	1.056	0.996-1.116
Toluene	11.08	8.74	1.268	ok	1.267	1.207-1.327
Trichloroethylene	9.35	8.74	1.070	ok	1.069	1.009-1.129
Trichlorofluoromethane	5.23	7.16	0.730	ok	0.730	0.670-0.790
Vinyl chloride	4.52	7.16	0.631	ok	0.631	0.571-0.691
Vinyl Acetate	6.51	7.16	0.909	ok	0.909	0.849-0.969
m,p-Xylene	13.50	12.89	1.047	ok	1.048	0.988-1.108
o-Xylene	13.99	12.89	1.085	ok	1.086	1.026-1.146
TVHC As Equiv Pentane	5.40	7.16	0.754	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.54	8.74	1.092	ok	1.091	1.031-1.151

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.16	ok	7.17	6.84-7.50	119179	ok	115731	69439-162023
1,4-Difluorobenzene	8.74	ok	8.74	8.41-9.07	526896	ok	510675	306405-714945
Chlorobenzene-D5	12.89	ok	12.88	12.55-13.21	264017	ok	248338	149003-347673

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Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.19	7.16	0.725	ok	0.720	0.660-0.780
Acrylonitrile	5.47	7.16	0.764	ok	0.760	0.700-0.820
1,3-Butadiene	4.59	7.16	0.641	ok	0.639	0.579-0.699
Benzene	8.43	8.74	0.965	ok	0.964	0.904-1.024
Bromobenzene	14.75	12.88	1.145	ok	1.146	1.086-1.206
Bromodichloromethane	9.31	8.74	1.065	ok	1.066	1.006-1.126
Bromoform	13.58	12.88	1.054	ok	1.055	0.995-1.115
Bromomethane	4.74	7.16	0.662	ok	0.661	0.601-0.721
Bromoethene	5.02	7.16	0.701	ok	0.700	0.640-0.760
n-Butane	4.61	7.16	0.644	ok	0.643	0.583-0.703
tert-Butylbenzene	15.99	12.88	1.241	ok	1.242	1.182-1.302
Carbon disulfide	5.87	7.16	0.820	ok	0.819	0.759-0.879
Chlorobenzene	12.92	12.88	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.26	7.16	0.595	ok	0.594	0.534-0.654
Chloroethane	4.82	7.16	0.673	ok	0.673	0.613-0.733
Chloroform	7.24	7.16	1.011	ok	1.011	0.951-1.071
Chloromethane	4.41	7.16	0.616	ok	0.615	0.555-0.675
3-Chloropropene	5.75	7.16	0.803	ok	0.802	0.742-0.862
2-Chlorotoluene	15.21	12.88	1.181	ok	1.180	1.120-1.240
Carbon tetrachloride	8.55	7.16	1.194	ok	1.194	1.134-1.254
Cyclohexane	8.58	8.74	0.982	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.41	7.16	0.895	ok	0.894	0.834-0.954
1,1-Dichloroethylene	5.61	7.16	0.784	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.72	12.88	0.910	ok	0.910	0.850-0.970
1,2-Dichloroethane	7.81	7.16	1.091	ok	1.092	1.032-1.152
1,2-Dichloropropane	9.11	8.74	1.042	ok	1.042	0.982-1.102
Dichlorodifluoromethane	4.31	7.16	0.602	ok	0.602	0.542-0.662
Dichlorofluoromethane	4.87	7.16	0.680	ok	0.679	0.619-0.739
Dibromochloromethane	11.51	12.88	0.894	ok	0.894	0.834-0.954
Dibromomethane	9.13	8.74	1.045	ok	1.045	0.985-1.105
trans-1,2-Dichloroethylene	6.26	7.16	0.874	ok	0.874	0.814-0.934
cis-1,2-Dichloroethylene	7.05	7.16	0.985	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.16	8.74	1.162	ok	1.163	1.103-1.223
m-Dichlorobenzene	16.20	12.88	1.258	ok	1.258	1.198-1.318
o-Dichlorobenzene	16.73	12.88	1.299	ok	1.298	1.238-1.358
p-Dichlorobenzene	16.29	12.88	1.265	ok	1.265	1.205-1.325
trans-1,3-Dichloropropene	10.67	8.74	1.221	ok	1.221	1.161-1.281
Di-Isopropyl ether	7.14	7.16	0.997	ok	0.993	0.933-1.053

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Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
2,4-Dimethylpentane	7.78	7.16	1.087	ok	1.086	1.026-1.146
Ethanol	4.94	7.16	0.690	ok	0.686	0.626-0.746
Ethylbenzene	13.30	12.88	1.033	ok	1.033	0.973-1.093
4-Ethyltoluene	15.41	12.88	1.196	ok	1.196	1.136-1.256
Freon 113	5.82	7.16	0.813	ok	0.813	0.753-0.873
Freon 114	4.45	7.16	0.622	ok	0.620	0.560-0.680
Freon 123	5.08	7.16	0.709	ok	0.709	0.649-0.769
Freon 123A	5.11	7.16	0.714	ok	0.713	0.653-0.773
Freon 152A	4.24	7.16	0.592	ok	0.591	0.531-0.651
Heptane	9.53	8.74	1.090	ok	1.091	1.031-1.151
Hexachlorobutadiene	19.40	12.88	1.506	ok	1.506	1.446-1.566
Hexachloroethane	17.55	12.88	1.363	ok	1.362	1.302-1.422
Hexane	7.09	7.16	0.990	ok	0.990	0.930-1.050
Iodomethane	5.57	7.16	0.778	ok	0.778	0.718-0.838
Isopropylbenzene	14.65	12.88	1.137	ok	1.137	1.077-1.197
Isopropyl Alcohol	5.33	7.16	0.744	ok	0.741	0.681-0.801
Methylene chloride	5.70	7.16	0.796	ok	0.794	0.734-0.854
Methyl ethyl ketone	6.72	7.16	0.939	ok	0.934	0.874-0.994
Methyl Tert Butyl Ether	6.46	7.16	0.902	ok	0.898	0.838-0.958
Nonane	14.21	12.88	1.103	ok	1.103	1.043-1.163
Octane	12.01	12.88	0.932	ok	0.932	0.872-0.992
Pentane	5.40	7.16	0.754	ok	0.754	0.694-0.814
Propylene	4.27	7.16	0.596	ok	0.596	0.536-0.656
Styrene	13.90	12.88	1.079	ok	1.079	1.019-1.139
1,1,1-Trichloroethane	8.03	7.16	1.122	ok	1.120	1.060-1.180
1,1,1,2-Tetrachloroethane	12.91	12.88	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.02	12.88	1.089	ok	1.088	1.028-1.148
1,1,2-Trichloroethane	10.83	8.74	1.239	ok	1.238	1.178-1.298
1,2,4-Trichlorobenzene	18.83	12.88	1.462	ok	1.461	1.401-1.521
1,2,3-Trichloropropane	14.15	12.88	1.099	ok	1.098	1.038-1.158
1,2,4-Trimethylbenzene	16.00	12.88	1.242	ok	1.243	1.183-1.303
1,3,5-Trimethylbenzene	15.50	12.88	1.203	ok	1.204	1.144-1.264
2,2,4-Trimethylpentane	9.28	8.74	1.062	ok	1.061	1.001-1.121
Tertiary Butyl Alcohol	5.68	7.16	0.793	ok	0.789	0.729-0.849
Tetrachloroethylene	12.20	12.88	0.947	ok	0.948	0.888-1.008
Tetrahydrofuran	7.61	7.16	1.063	ok	1.056	0.996-1.116
Toluene	11.07	8.74	1.267	ok	1.267	1.207-1.327
Trichloroethylene	9.33	8.74	1.068	ok	1.069	1.009-1.129

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Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Trichlorofluoromethane	5.23	7.16	0.730	ok	0.730	0.670-0.790
Vinyl chloride	4.51	7.16	0.630	ok	0.631	0.571-0.691
m,p-Xylene	13.50	12.88	1.048	ok	1.048	0.988-1.108
o-Xylene	13.99	12.88	1.086	ok	1.086	1.026-1.146
TVHC As Equiv Pentane	5.40	7.16	0.754	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.53	8.74	1.090	ok	1.091	1.031-1.151

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.16	ok	7.17	6.84-7.50	117715	ok	115731	69439-162023
1,4-Difluorobenzene	8.74	ok	8.74	8.41-9.07	511326	ok	510675	306405-714945
Chlorobenzene-D5	12.88	ok	12.88	12.55-13.21	225879	ok	248338	149003-347673

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V3W1782-IC1782	3W46971.D	04/14/15 19:56	YMH	20	GCMS3W	TO-15	
V3W1782-IC1782	3W46972.D	04/14/15 20:37	YMH	15	GCMS3W	TO-15	
V3W1782-IC1782	3W46974.D	04/14/15 21:56	YMH	0.1	GCMS3W	TO-15	
V3W1782-IC1782	3W46975.D	04/14/15 22:36	YMH	0.04	GCMS3W	TO-15	Reporting this level
V3W1782-IC1782	3W46976.D	04/14/15 23:17	YMH	30	GCMS3W	TO-15	
V3W1782-IC1782	3W46978.D	04/15/15 00:38	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,3-Butadiene	4.58	7.16	0.640	ok	0.639	0.579-0.699
Benzene	8.43	8.74	0.965	ok	0.964	0.904-1.024
Bromobenzene	14.75	12.88	1.145	ok	1.146	1.086-1.206
Bromodichloromethane	9.32	8.74	1.066	ok	1.066	1.006-1.126
Bromoform	13.58	12.88	1.054	ok	1.055	0.995-1.115
Bromoethene	5.02	7.16	0.701	ok	0.700	0.640-0.760
Carbon disulfide	5.88	7.16	0.821	ok	0.819	0.759-0.879
Chlorobenzene	12.92	12.88	1.003	ok	1.003	0.943-1.063
Chloroethane	4.81	7.16	0.672	ok	0.673	0.613-0.733
Chloroform	7.24	7.16	1.011	ok	1.011	0.951-1.071
3-Chloropropene	5.73	7.16	0.800	ok	0.802	0.742-0.862
2-Chlorotoluene	15.20	12.88	1.180	ok	1.180	1.120-1.240
Carbon tetrachloride	8.55	7.16	1.194	ok	1.194	1.134-1.254
Cyclohexane	8.59	8.74	0.983	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.41	7.16	0.895	ok	0.894	0.834-0.954
1,1-Dichloroethylene	5.60	7.16	0.782	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.72	12.88	0.910	ok	0.910	0.850-0.970
1,2-Dichloroethane	7.82	7.16	1.092	ok	1.092	1.032-1.152
Dichlorodifluoromethane	4.31	7.16	0.602	ok	0.602	0.542-0.662
Dichlorofluoromethane	4.87	7.16	0.680	ok	0.679	0.619-0.739
Dibromochloromethane	11.51	12.88	0.894	ok	0.894	0.834-0.954
Dibromomethane	9.13	8.74	1.045	ok	1.045	0.985-1.105
trans-1,2-Dichloroethylene	6.26	7.16	0.874	ok	0.874	0.814-0.934
cis-1,2-Dichloroethylene	7.05	7.16	0.985	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.17	8.74	1.164	ok	1.163	1.103-1.223
m-Dichlorobenzene	16.20	12.88	1.258	ok	1.258	1.198-1.318
o-Dichlorobenzene	16.72	12.88	1.298	ok	1.298	1.238-1.358
p-Dichlorobenzene	16.29	12.88	1.265	ok	1.265	1.205-1.325
trans-1,3-Dichloropropene	10.66	8.74	1.220	ok	1.221	1.161-1.281
2,4-Dimethylpentane	7.77	7.16	1.085	ok	1.086	1.026-1.146
Ethylbenzene	13.30	12.88	1.033	ok	1.033	0.973-1.093
4-Ethyltoluene	15.41	12.88	1.196	ok	1.196	1.136-1.256
Freon 113	5.82	7.16	0.813	ok	0.813	0.753-0.873
Freon 114	4.45	7.16	0.622	ok	0.620	0.560-0.680
Freon 123	5.08	7.16	0.709	ok	0.709	0.649-0.769
Freon 123A	5.11	7.16	0.714	ok	0.713	0.653-0.773
Heptane	9.53	8.74	1.090	ok	1.091	1.031-1.151
Hexachlorobutadiene	19.40	12.88	1.506	ok	1.506	1.446-1.566

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1782-ICC1782	3W46967.D	04/14/15 17:16	YMH	10	GCMS3W	TO-15	
V3W1782-IC1782	3W46968.D	04/14/15 17:56	YMH	5	GCMS3W	TO-15	
V3W1782-IC1782	3W46969.D	04/14/15 18:36	YMH	0.5	GCMS3W	TO-15	
V3W1782-IC1782	3W46970.D	04/14/15 19:16	YMH	0.2	GCMS3W	TO-15	
V3W1782-IC1782	3W46971.D	04/14/15 19:56	YMH	20	GCMS3W	TO-15	
V3W1782-IC1782	3W46972.D	04/14/15 20:37	YMH	15	GCMS3W	TO-15	
V3W1782-IC1782	3W46974.D	04/14/15 21:56	YMH	0.1	GCMS3W	TO-15	
V3W1782-IC1782	3W46975.D	04/14/15 22:36	YMH	0.04	GCMS3W	TO-15	Reporting this level
V3W1782-IC1782	3W46976.D	04/14/15 23:17	YMH	30	GCMS3W	TO-15	
V3W1782-IC1782	3W46978.D	04/15/15 00:38	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Hexane	7.08	7.16	0.989	ok	0.990	0.930-1.050
Iodomethane	5.56	7.16	0.777	ok	0.778	0.718-0.838
Isopropylbenzene	14.65	12.88	1.137	ok	1.137	1.077-1.197
Methyl Tert Butyl Ether	6.46	7.16	0.902	ok	0.898	0.838-0.958
Nonane	14.20	12.88	1.102	ok	1.103	1.043-1.163
Octane	12.01	12.88	0.932	ok	0.932	0.872-0.992
Styrene	13.90	12.88	1.079	ok	1.079	1.019-1.139
1,1,1-Trichloroethane	8.02	7.16	1.120	ok	1.120	1.060-1.180
1,1,1,2-Tetrachloroethane	12.90	12.88	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.01	12.88	1.088	ok	1.088	1.028-1.148
1,1,2-Trichloroethane	10.81	8.74	1.237	ok	1.238	1.178-1.298
1,2,4-Trichlorobenzene	18.83	12.88	1.462	ok	1.461	1.401-1.521
1,2,3-Trichloropropane	14.15	12.88	1.099	ok	1.098	1.038-1.158
1,2,4-Trimethylbenzene	16.01	12.88	1.243	ok	1.243	1.183-1.303
1,3,5-Trimethylbenzene	15.51	12.88	1.204	ok	1.204	1.144-1.264
2,2,4-Trimethylpentane	9.27	8.74	1.061	ok	1.061	1.001-1.121
Tertiary Butyl Alcohol	5.70	7.16	0.796	ok	0.789	0.729-0.849
Tetrachloroethylene	12.21	12.88	0.948	ok	0.948	0.888-1.008
Toluene	11.07	8.74	1.267	ok	1.267	1.207-1.327
Trichloroethylene	9.35	8.74	1.070	ok	1.069	1.009-1.129
Trichlorofluoromethane	5.23	7.16	0.730	ok	0.730	0.670-0.790
Vinyl chloride	4.51	7.16	0.630	ok	0.631	0.571-0.691
m,p-Xylene	13.50	12.88	1.048	ok	1.048	0.988-1.108
o-Xylene	13.99	12.88	1.086	ok	1.086	1.026-1.146
TVHC As Equiv Pentane	5.40	7.16	0.754	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.53	8.74	1.090	ok	1.091	1.031-1.151

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.16	ok	7.17	6.84-7.50	114162	ok	115731	69439-162023
1,4-Difluorobenzene	8.74	ok	8.74	8.41-9.07	489240	ok	510675	306405-714945
Chlorobenzene-D5	12.88	ok	12.88	12.55-13.21	213113	ok	248338	149003-347673

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1782-ICC1782	3W46967.D	04/14/15 17:16	YMH	10	GCMS3W	TO-15	
V3W1782-IC1782	3W46968.D	04/14/15 17:56	YMH	5	GCMS3W	TO-15	
V3W1782-IC1782	3W46969.D	04/14/15 18:36	YMH	0.5	GCMS3W	TO-15	
V3W1782-IC1782	3W46970.D	04/14/15 19:16	YMH	0.2	GCMS3W	TO-15	
V3W1782-IC1782	3W46971.D	04/14/15 19:56	YMH	20	GCMS3W	TO-15	
V3W1782-IC1782	3W46972.D	04/14/15 20:37	YMH	15	GCMS3W	TO-15	
V3W1782-IC1782	3W46974.D	04/14/15 21:56	YMH	0.1	GCMS3W	TO-15	
V3W1782-IC1782	3W46975.D	04/14/15 22:36	YMH	0.04	GCMS3W	TO-15	
V3W1782-IC1782	3W46976.D	04/14/15 23:17	YMH	30	GCMS3W	TO-15	Reporting this level
V3W1782-IC1782	3W46978.D	04/15/15 00:38	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.15	7.18	0.717	ok	0.720	0.660-0.780
Acrylonitrile	5.44	7.18	0.758	ok	0.760	0.700-0.820
Acetonitrile	5.05	7.18	0.703	ok	0.705	0.645-0.765
1,3-Butadiene	4.58	7.18	0.638	ok	0.639	0.579-0.699
Benzene	8.43	8.75	0.963	ok	0.964	0.904-1.024
Bromobenzene	14.76	12.89	1.145	ok	1.146	1.086-1.206
Bromodichloromethane	9.33	8.75	1.066	ok	1.066	1.006-1.126
Bromoform	13.60	12.89	1.055	ok	1.055	0.995-1.115
Bromomethane	4.74	7.18	0.660	ok	0.661	0.601-0.721
Bromoethene	5.02	7.18	0.699	ok	0.700	0.640-0.760
n-Butane	4.61	7.18	0.642	ok	0.643	0.583-0.703
Benzyl Chloride	16.22	12.89	1.258	ok	1.258	1.198-1.318
n-Butylbenzene	17.08	12.89	1.325	ok	1.325	1.265-1.385
sec-Butylbenzene	16.35	12.89	1.268	ok	1.268	1.208-1.328
tert-Butylbenzene	16.01	12.89	1.242	ok	1.242	1.182-1.302
Carbon disulfide	5.87	7.18	0.818	ok	0.819	0.759-0.879
Chlorobenzene	12.94	12.89	1.004	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.25	7.18	0.592	ok	0.594	0.534-0.654
Chloroethane	4.83	7.18	0.673	ok	0.673	0.613-0.733
Chloroform	7.26	7.18	1.011	ok	1.011	0.951-1.071
Chloromethane	4.41	7.18	0.614	ok	0.615	0.555-0.675
3-Chloropropene	5.75	7.18	0.801	ok	0.802	0.742-0.862
2-Chlorotoluene	15.21	12.89	1.180	ok	1.180	1.120-1.240
Carbon tetrachloride	8.56	7.18	1.192	ok	1.194	1.134-1.254
Cyclohexane	8.60	8.75	0.983	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.41	7.18	0.893	ok	0.894	0.834-0.954
1,1-Dichloroethylene	5.61	7.18	0.781	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.73	12.89	0.910	ok	0.910	0.850-0.970
1,2-Dichloroethane	7.83	7.18	1.091	ok	1.092	1.032-1.152
1,2-Dichloropropane	9.12	8.75	1.042	ok	1.042	0.982-1.102
1,4-Dioxane	9.39	8.75	1.073	ok	1.075	1.015-1.135
Dichlorodifluoromethane	4.31	7.18	0.600	ok	0.602	0.542-0.662
Dichlorofluoromethane	4.87	7.18	0.678	ok	0.679	0.619-0.739
Dibromochloromethane	11.52	12.89	0.894	ok	0.894	0.834-0.954
Dibromomethane	9.15	8.75	1.046	ok	1.045	0.985-1.105
trans-1,2-Dichloroethylene	6.26	7.18	0.872	ok	0.874	0.814-0.934
cis-1,2-Dichloroethylene	7.06	7.18	0.983	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.17	8.75	1.162	ok	1.163	1.103-1.223

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1782-ICC1782	3W46967.D	04/14/15 17:16	YMH	10	GCMS3W	TO-15	
V3W1782-IC1782	3W46968.D	04/14/15 17:56	YMH	5	GCMS3W	TO-15	
V3W1782-IC1782	3W46969.D	04/14/15 18:36	YMH	0.5	GCMS3W	TO-15	
V3W1782-IC1782	3W46970.D	04/14/15 19:16	YMH	0.2	GCMS3W	TO-15	
V3W1782-IC1782	3W46971.D	04/14/15 19:56	YMH	20	GCMS3W	TO-15	
V3W1782-IC1782	3W46972.D	04/14/15 20:37	YMH	15	GCMS3W	TO-15	
V3W1782-IC1782	3W46974.D	04/14/15 21:56	YMH	0.1	GCMS3W	TO-15	
V3W1782-IC1782	3W46975.D	04/14/15 22:36	YMH	0.04	GCMS3W	TO-15	
V3W1782-IC1782	3W46976.D	04/14/15 23:17	YMH	30	GCMS3W	TO-15	Reporting this level
V3W1782-IC1782	3W46978.D	04/15/15 00:38	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	16.21	12.89	1.258	ok	1.258	1.198-1.318
o-Dichlorobenzene	16.73	12.89	1.298	ok	1.298	1.238-1.358
p-Dichlorobenzene	16.30	12.89	1.265	ok	1.265	1.205-1.325
trans-1,3-Dichloropropene	10.68	8.75	1.221	ok	1.221	1.161-1.281
Di-Isopropyl ether	7.11	7.18	0.990	ok	0.993	0.933-1.053
2,3-Dimethylpentane	8.78	8.75	1.003	ok	1.004	0.944-1.064
2,4-Dimethylpentane	7.78	7.18	1.084	ok	1.086	1.026-1.146
Ethanol	4.91	7.18	0.684	ok	0.686	0.626-0.746
Ethylbenzene	13.31	12.89	1.033	ok	1.033	0.973-1.093
Ethyl Acetate	7.18	7.18	1.000	ok	1.002	0.942-1.062
4-Ethyltoluene	15.42	12.89	1.196	ok	1.196	1.136-1.256
Freon 113	5.83	7.18	0.812	ok	0.813	0.753-0.873
Freon 114	4.45	7.18	0.620	ok	0.620	0.560-0.680
Freon 123	5.08	7.18	0.708	ok	0.709	0.649-0.769
Freon 123A	5.11	7.18	0.712	ok	0.713	0.653-0.773
Freon 152A	4.23	7.18	0.589	ok	0.591	0.531-0.651
Heptane	9.54	8.75	1.090	ok	1.091	1.031-1.151
Hexachlorobutadiene	19.40	12.89	1.505	ok	1.506	1.446-1.566
Hexachloroethane	17.55	12.89	1.362	ok	1.362	1.302-1.422
Hexane	7.10	7.18	0.989	ok	0.990	0.930-1.050
2-Hexanone	11.34	12.89	0.880	ok	0.881	0.821-0.941
Iodomethane	5.58	7.18	0.777	ok	0.778	0.718-0.838
Isopropylbenzene	14.66	12.89	1.137	ok	1.137	1.077-1.197
Isopropyl Alcohol	5.30	7.18	0.738	ok	0.741	0.681-0.801
p-Isopropyltoluene	16.55	12.89	1.284	ok	1.284	1.224-1.344
Methylene chloride	5.70	7.18	0.794	ok	0.794	0.734-0.854
Methyl ethyl ketone	6.69	7.18	0.932	ok	0.934	0.874-0.994
Methyl Isobutyl Ketone	10.16	8.75	1.161	ok	1.162	1.102-1.222
Methyl Tert Butyl Ether	6.42	7.18	0.894	ok	0.898	0.838-0.958
Methylmethacrylate	9.56	8.75	1.093	ok	1.093	1.033-1.153
Naphthalene	18.96	12.89	1.471	ok	1.472	1.412-1.532
Nonane	14.21	12.89	1.102	ok	1.103	1.043-1.163
Octane	12.02	12.89	0.933	ok	0.932	0.872-0.992
Pentane	5.40	7.18	0.752	ok	0.754	0.694-0.814
n-Propylbenzene	15.24	12.89	1.182	ok	1.183	1.123-1.243
Propylene	4.27	7.18	0.595	ok	0.596	0.536-0.656
Styrene	13.90	12.89	1.078	ok	1.079	1.019-1.139
1,1,1-Trichloroethane	8.03	7.18	1.118	ok	1.120	1.060-1.180

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1782-ICC1782	3W46967.D	04/14/15 17:16	YMH	10	GCMS3W	TO-15	
V3W1782-IC1782	3W46968.D	04/14/15 17:56	YMH	5	GCMS3W	TO-15	
V3W1782-IC1782	3W46969.D	04/14/15 18:36	YMH	0.5	GCMS3W	TO-15	
V3W1782-IC1782	3W46970.D	04/14/15 19:16	YMH	0.2	GCMS3W	TO-15	
V3W1782-IC1782	3W46971.D	04/14/15 19:56	YMH	20	GCMS3W	TO-15	
V3W1782-IC1782	3W46972.D	04/14/15 20:37	YMH	15	GCMS3W	TO-15	
V3W1782-IC1782	3W46974.D	04/14/15 21:56	YMH	0.1	GCMS3W	TO-15	
V3W1782-IC1782	3W46975.D	04/14/15 22:36	YMH	0.04	GCMS3W	TO-15	
V3W1782-IC1782	3W46976.D	04/14/15 23:17	YMH	30	GCMS3W	TO-15	Reporting this level
V3W1782-IC1782	3W46978.D	04/15/15 00:38	YMH	40	GCMS3W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	12.91	12.89	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.03	12.89	1.088	ok	1.088	1.028-1.148
1,1,2-Trichloroethane	10.83	8.75	1.238	ok	1.238	1.178-1.298
1,2,4-Trichlorobenzene	18.83	12.89	1.461	ok	1.461	1.401-1.521
1,2,3-Trichloropropane	14.15	12.89	1.098	ok	1.098	1.038-1.158
1,2,4-Trimethylbenzene	16.02	12.89	1.243	ok	1.243	1.183-1.303
1,3,5-Trimethylbenzene	15.52	12.89	1.204	ok	1.204	1.144-1.264
2,2,4-Trimethylpentane	9.29	8.75	1.062	ok	1.061	1.001-1.121
Tertiary Butyl Alcohol	5.64	7.18	0.786	ok	0.789	0.729-0.849
Tetrachloroethylene	12.21	12.89	0.947	ok	0.948	0.888-1.008
Tetrahydrofuran	7.55	7.18	1.052	ok	1.056	0.996-1.116
Toluene	11.09	8.75	1.267	ok	1.267	1.207-1.327
Trichloroethylene	9.35	8.75	1.069	ok	1.069	1.009-1.129
Trichlorofluoromethane	5.24	7.18	0.730	ok	0.730	0.670-0.790
Vinyl chloride	4.52	7.18	0.630	ok	0.631	0.571-0.691
Vinyl Acetate	6.52	7.18	0.908	ok	0.909	0.849-0.969
m,p-Xylene	13.50	12.89	1.047	ok	1.048	0.988-1.108
o-Xylene	14.00	12.89	1.086	ok	1.086	1.026-1.146
TVHC As Equiv Pentane	5.40	7.18	0.752	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.55	8.75	1.091	ok	1.091	1.031-1.151

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.18	ok	7.17	6.84-7.50	117076	ok	115731	69439-162023
1,4-Difluorobenzene	8.75	ok	8.74	8.41-9.07	534251	ok	510675	306405-714945
Chlorobenzene-D5	12.89	ok	12.88	12.55-13.21	290034	ok	248338	149003-347673

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1782-ICC1782	3W46967.D	04/14/15 17:16	YMH	10	GCMS3W	TO-15	
V3W1782-IC1782	3W46968.D	04/14/15 17:56	YMH	5	GCMS3W	TO-15	
V3W1782-IC1782	3W46969.D	04/14/15 18:36	YMH	0.5	GCMS3W	TO-15	
V3W1782-IC1782	3W46970.D	04/14/15 19:16	YMH	0.2	GCMS3W	TO-15	
V3W1782-IC1782	3W46971.D	04/14/15 19:56	YMH	20	GCMS3W	TO-15	
V3W1782-IC1782	3W46972.D	04/14/15 20:37	YMH	15	GCMS3W	TO-15	
V3W1782-IC1782	3W46974.D	04/14/15 21:56	YMH	0.1	GCMS3W	TO-15	
V3W1782-IC1782	3W46975.D	04/14/15 22:36	YMH	0.04	GCMS3W	TO-15	
V3W1782-IC1782	3W46976.D	04/14/15 23:17	YMH	30	GCMS3W	TO-15	
V3W1782-IC1782	3W46978.D	04/15/15 00:38	YMH	40	GCMS3W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.15	7.18	0.717	ok	0.720	0.660-0.780
Acrylonitrile	5.44	7.18	0.758	ok	0.760	0.700-0.820
Acetonitrile	5.04	7.18	0.702	ok	0.705	0.645-0.765
1,3-Butadiene	4.58	7.18	0.638	ok	0.639	0.579-0.699
Benzene	8.43	8.75	0.963	ok	0.964	0.904-1.024
Bromobenzene	14.77	12.89	1.146	ok	1.146	1.086-1.206
Bromodichloromethane	9.33	8.75	1.066	ok	1.066	1.006-1.126
Bromoform	13.60	12.89	1.055	ok	1.055	0.995-1.115
Bromomethane	4.74	7.18	0.660	ok	0.661	0.601-0.721
Bromoethene	5.02	7.18	0.699	ok	0.700	0.640-0.760
n-Butane	4.60	7.18	0.641	ok	0.643	0.583-0.703
Benzyl Chloride	16.22	12.89	1.258	ok	1.258	1.198-1.318
n-Butylbenzene	17.08	12.89	1.325	ok	1.325	1.265-1.385
sec-Butylbenzene	16.35	12.89	1.268	ok	1.268	1.208-1.328
tert-Butylbenzene	16.01	12.89	1.242	ok	1.242	1.182-1.302
Carbon disulfide	5.87	7.18	0.818	ok	0.819	0.759-0.879
Chlorobenzene	12.94	12.89	1.004	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.25	7.18	0.592	ok	0.594	0.534-0.654
Chloroethane	4.82	7.18	0.671	ok	0.673	0.613-0.733
Chloroform	7.26	7.18	1.011	ok	1.011	0.951-1.071
Chloromethane	4.40	7.18	0.613	ok	0.615	0.555-0.675
3-Chloropropene	5.75	7.18	0.801	ok	0.802	0.742-0.862
2-Chlorotoluene	15.21	12.89	1.180	ok	1.180	1.120-1.240
Carbon tetrachloride	8.56	7.18	1.192	ok	1.194	1.134-1.254
Cyclohexane	8.60	8.75	0.983	ok	0.983	0.923-1.043
1,1-Dichloroethane	6.41	7.18	0.893	ok	0.894	0.834-0.954
1,1-Dichloroethylene	5.61	7.18	0.781	ok	0.783	0.723-0.843
1,2-Dibromoethane	11.73	12.89	0.910	ok	0.910	0.850-0.970
1,2-Dichloroethane	7.83	7.18	1.091	ok	1.092	1.032-1.152
1,2-Dichloropropane	9.12	8.75	1.042	ok	1.042	0.982-1.102
1,4-Dioxane	9.39	8.75	1.073	ok	1.075	1.015-1.135
Dichlorodifluoromethane	4.31	7.18	0.600	ok	0.602	0.542-0.662
Dichlorofluoromethane	4.86	7.18	0.677	ok	0.679	0.619-0.739
Dibromochloromethane	11.53	12.89	0.894	ok	0.894	0.834-0.954
Dibromomethane	9.15	8.75	1.046	ok	1.045	0.985-1.105
trans-1,2-Dichloroethylene	6.26	7.18	0.872	ok	0.874	0.814-0.934
cis-1,2-Dichloroethylene	7.06	7.18	0.983	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	10.17	8.75	1.162	ok	1.163	1.103-1.223

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1782-ICC1782	3W46967.D	04/14/15 17:16	YMH	10	GCMS3W	TO-15	
V3W1782-IC1782	3W46968.D	04/14/15 17:56	YMH	5	GCMS3W	TO-15	
V3W1782-IC1782	3W46969.D	04/14/15 18:36	YMH	0.5	GCMS3W	TO-15	
V3W1782-IC1782	3W46970.D	04/14/15 19:16	YMH	0.2	GCMS3W	TO-15	
V3W1782-IC1782	3W46971.D	04/14/15 19:56	YMH	20	GCMS3W	TO-15	
V3W1782-IC1782	3W46972.D	04/14/15 20:37	YMH	15	GCMS3W	TO-15	
V3W1782-IC1782	3W46974.D	04/14/15 21:56	YMH	0.1	GCMS3W	TO-15	
V3W1782-IC1782	3W46975.D	04/14/15 22:36	YMH	0.04	GCMS3W	TO-15	
V3W1782-IC1782	3W46976.D	04/14/15 23:17	YMH	30	GCMS3W	TO-15	
V3W1782-IC1782	3W46978.D	04/15/15 00:38	YMH	40	GCMS3W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m-Dichlorobenzene	16.21	12.89	1.258	ok	1.258	1.198-1.318
o-Dichlorobenzene	16.73	12.89	1.298	ok	1.298	1.238-1.358
p-Dichlorobenzene	16.30	12.89	1.265	ok	1.265	1.205-1.325
trans-1,3-Dichloropropene	10.68	8.75	1.221	ok	1.221	1.161-1.281
Di-Isopropyl ether	7.11	7.18	0.990	ok	0.993	0.933-1.053
2,3-Dimethylpentane	8.78	8.75	1.003	ok	1.004	0.944-1.064
2,4-Dimethylpentane	7.78	7.18	1.084	ok	1.086	1.026-1.146
Ethanol	4.91	7.18	0.684	ok	0.686	0.626-0.746
Ethylbenzene	13.31	12.89	1.033	ok	1.033	0.973-1.093
Ethyl Acetate	7.18	7.18	1.000	ok	1.002	0.942-1.062
4-Ethyltoluene	15.42	12.89	1.196	ok	1.196	1.136-1.256
Freon 113	5.82	7.18	0.811	ok	0.813	0.753-0.873
Freon 114	4.44	7.18	0.618	ok	0.620	0.560-0.680
Freon 123	5.08	7.18	0.708	ok	0.709	0.649-0.769
Freon 123A	5.11	7.18	0.712	ok	0.713	0.653-0.773
Freon 152A	4.23	7.18	0.589	ok	0.591	0.531-0.651
Heptane	9.54	8.75	1.090	ok	1.091	1.031-1.151
Hexachlorobutadiene	19.40	12.89	1.505	ok	1.506	1.446-1.566
Hexachloroethane	17.55	12.89	1.362	ok	1.362	1.302-1.422
Hexane	7.10	7.18	0.989	ok	0.990	0.930-1.050
2-Hexanone	11.34	12.89	0.880	ok	0.881	0.821-0.941
Iodomethane	5.57	7.18	0.776	ok	0.778	0.718-0.838
Isopropylbenzene	14.66	12.89	1.137	ok	1.137	1.077-1.197
Isopropyl Alcohol	5.30	7.18	0.738	ok	0.741	0.681-0.801
p-Isopropyltoluene	16.56	12.89	1.285	ok	1.284	1.224-1.344
Methylene chloride	5.69	7.18	0.792	ok	0.794	0.734-0.854
Methyl ethyl ketone	6.68	7.18	0.930	ok	0.934	0.874-0.994
Methyl Isobutyl Ketone	10.16	8.75	1.161	ok	1.162	1.102-1.222
Methyl Tert Butyl Ether	6.42	7.18	0.894	ok	0.898	0.838-0.958
Methylmethacrylate	9.56	8.75	1.093	ok	1.093	1.033-1.153
Naphthalene	18.97	12.89	1.472	ok	1.472	1.412-1.532
Nonane	14.21	12.89	1.102	ok	1.103	1.043-1.163
Octane	12.02	12.89	0.933	ok	0.932	0.872-0.992
Pentane	5.40	7.18	0.752	ok	0.754	0.694-0.814
n-Propylbenzene	15.25	12.89	1.183	ok	1.183	1.123-1.243
Propylene	4.27	7.18	0.595	ok	0.596	0.536-0.656
Styrene	13.91	12.89	1.079	ok	1.079	1.019-1.139
1,1,1-Trichloroethane	8.03	7.18	1.118	ok	1.120	1.060-1.180

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V3W1782-ICC1782	3W46967.D	04/14/15 17:16	YMH	10	GCMS3W	TO-15	
V3W1782-IC1782	3W46968.D	04/14/15 17:56	YMH	5	GCMS3W	TO-15	
V3W1782-IC1782	3W46969.D	04/14/15 18:36	YMH	0.5	GCMS3W	TO-15	
V3W1782-IC1782	3W46970.D	04/14/15 19:16	YMH	0.2	GCMS3W	TO-15	
V3W1782-IC1782	3W46971.D	04/14/15 19:56	YMH	20	GCMS3W	TO-15	
V3W1782-IC1782	3W46972.D	04/14/15 20:37	YMH	15	GCMS3W	TO-15	
V3W1782-IC1782	3W46974.D	04/14/15 21:56	YMH	0.1	GCMS3W	TO-15	
V3W1782-IC1782	3W46975.D	04/14/15 22:36	YMH	0.04	GCMS3W	TO-15	
V3W1782-IC1782	3W46976.D	04/14/15 23:17	YMH	30	GCMS3W	TO-15	
V3W1782-IC1782	3W46978.D	04/15/15 00:38	YMH	40	GCMS3W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	12.92	12.89	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	14.03	12.89	1.088	ok	1.088	1.028-1.148
1,1,2-Trichloroethane	10.83	8.75	1.238	ok	1.238	1.178-1.298
1,2,4-Trichlorobenzene	18.83	12.89	1.461	ok	1.461	1.401-1.521
1,2,3-Trichloropropane	14.15	12.89	1.098	ok	1.098	1.038-1.158
1,2,4-Trimethylbenzene	16.03	12.89	1.244	ok	1.243	1.183-1.303
1,3,5-Trimethylbenzene	15.52	12.89	1.204	ok	1.204	1.144-1.264
2,2,4-Trimethylpentane	9.29	8.75	1.062	ok	1.061	1.001-1.121
Tertiary Butyl Alcohol	5.64	7.18	0.786	ok	0.789	0.729-0.849
Tetrachloroethylene	12.22	12.89	0.948	ok	0.948	0.888-1.008
Tetrahydrofuran	7.55	7.18	1.052	ok	1.056	0.996-1.116
Toluene	11.09	8.75	1.267	ok	1.267	1.207-1.327
Trichloroethylene	9.35	8.75	1.069	ok	1.069	1.009-1.129
Trichlorofluoromethane	5.23	7.18	0.728	ok	0.730	0.670-0.790
Vinyl chloride	4.52	7.18	0.630	ok	0.631	0.571-0.691
Vinyl Acetate	6.52	7.18	0.908	ok	0.909	0.849-0.969
m,p-Xylene	13.51	12.89	1.048	ok	1.048	0.988-1.108
o-Xylene	14.01	12.89	1.087	ok	1.086	1.026-1.146
TVHC As Equiv Pentane	5.40	7.18	0.752	ok	0.754	0.694-0.814
TVHC As Equiv Heptane	9.55	8.75	1.091	ok	1.091	1.031-1.151

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.18	ok	7.17	6.84-7.50	126923	ok	115731	69439-162023
1,4-Difluorobenzene	8.75	ok	8.74	8.41-9.07	572015	ok	510675	306405-714945
Chlorobenzene-D5	12.89	ok	12.88	12.55-13.21	310642	ok	248338	149003-347673

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W419-IC419	5W10668.D	04/02/15 07:47	ML	0.04	GCMS5W	TO-15	Reporting this level
V5W419-IC419	5W10669.D	04/02/15 08:28	ML	0.1	GCMS5W	TO-15	
V5W419-IC419	5W10670.D	04/02/15 09:10	ML	0.2	GCMS5W	TO-15	
V5W419-IC419	5W10671.D	04/02/15 09:52	ML	0.5	GCMS5W	TO-15	
V5W419-IC419	5W10672.D	04/02/15 10:33	ML	5	GCMS5W	TO-15	
V5W419-ICC419	5W10673.D	04/02/15 11:15	ML	10	GCMS5W	TO-15	
V5W419-IC419	5W10674.D	04/02/15 11:57	ML	20	GCMS5W	TO-15	
V5W419-IC419	5W10675.D	04/02/15 12:41	ML	30	GCMS5W	TO-15	
V5W419-IC419	5W10677.D	04/02/15 14:10	ML	40	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.48	8.58	0.639	ok	0.636	0.576-0.696
Acetonitrile	5.22	8.58	0.608	ok	0.607	0.547-0.667
1,3-Butadiene	4.50	8.58	0.524	ok	0.525	0.465-0.585
Benzene	10.37	8.58	1.209	ok	1.210	1.150-1.270
Bromobenzene	18.99	16.41	1.157	ok	1.157	1.097-1.217
Bromodichloromethane	11.60	10.80	1.074	ok	1.074	1.014-1.134
Bromoform	17.37	16.41	1.059	ok	1.059	0.999-1.119
Bromomethane	4.75	8.58	0.554	ok	0.553	0.493-0.613
Bromoethene	5.22	8.58	0.608	ok	0.609	0.549-0.669
n-Butylbenzene	21.64	16.41	1.319	ok	1.318	1.258-1.378
sec-Butylbenzene	20.86	16.41	1.271	ok	1.271	1.211-1.331
tert-Butylbenzene	20.49	16.41	1.249	ok	1.249	1.189-1.309
Carbon disulfide	6.64	8.58	0.774	ok	0.774	0.714-0.834
Chlorobenzene	16.47	16.41	1.004	ok	1.004	0.944-1.064
Chloroethane	4.91	8.58	0.572	ok	0.571	0.511-0.631
Chloroform	8.72	8.58	1.016	ok	1.017	0.957-1.077
Chloromethane	4.20	8.58	0.490	ok	0.488	0.428-0.548
3-Chloropropene	6.44	8.58	0.751	ok	0.752	0.692-0.812
2-Chlorotoluene	19.56	16.41	1.192	ok	1.192	1.132-1.252
Carbon tetrachloride	10.55	8.58	1.230	ok	1.230	1.170-1.290
Cyclohexane	10.70	8.58	1.247	ok	1.248	1.188-1.308
1,1-Dichloroethane	7.50	8.58	0.874	ok	0.874	0.814-0.934
1,1-Dichloroethylene	6.21	8.58	0.724	ok	0.724	0.664-0.784
1,2-Dibromoethane	14.89	10.80	1.379	ok	1.378	1.318-1.438
1,2-Dichloroethane	9.55	8.58	1.113	ok	1.114	1.054-1.174
1,2-Dichloropropane	11.37	10.80	1.053	ok	1.052	0.992-1.112
Dichlorodifluoromethane	4.04	8.58	0.471	ok	0.471	0.411-0.531
Dichlorofluoromethane	4.98	8.58	0.580	ok	0.580	0.520-0.640
Dibromochloromethane	14.56	10.80	1.348	ok	1.347	1.287-1.407
Dibromomethane	11.34	10.80	1.050	ok	1.049	0.989-1.109
trans-1,2-Dichloroethylene	7.29	8.58	0.850	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	8.39	8.58	0.978	ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	12.74	10.80	1.180	ok	1.179	1.119-1.239
m-Dichlorobenzene	20.70	16.41	1.261	ok	1.261	1.201-1.321
o-Dichlorobenzene	21.23	16.41	1.294	ok	1.294	1.234-1.354
p-Dichlorobenzene	20.79	16.41	1.267	ok	1.267	1.207-1.327
trans-1,3-Dichloropropene	13.42	10.80	1.243	ok	1.242	1.182-1.302
Di-Isopropyl ether	8.64	8.58	1.007	ok	1.006	0.946-1.066
2,3-Dimethylpentane	10.99	8.58	1.281	ok	1.281	1.221-1.341

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W419-IC419	5W10668.D	04/02/15 07:47	ML	0.04	GCMS5W	TO-15	Reporting this level
V5W419-IC419	5W10669.D	04/02/15 08:28	ML	0.1	GCMS5W	TO-15	
V5W419-IC419	5W10670.D	04/02/15 09:10	ML	0.2	GCMS5W	TO-15	
V5W419-IC419	5W10671.D	04/02/15 09:52	ML	0.5	GCMS5W	TO-15	
V5W419-IC419	5W10672.D	04/02/15 10:33	ML	5	GCMS5W	TO-15	
V5W419-ICC419	5W10673.D	04/02/15 11:15	ML	10	GCMS5W	TO-15	
V5W419-IC419	5W10674.D	04/02/15 11:57	ML	20	GCMS5W	TO-15	
V5W419-IC419	5W10675.D	04/02/15 12:41	ML	30	GCMS5W	TO-15	
V5W419-IC419	5W10677.D	04/02/15 14:10	ML	40	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
2,4-Dimethylpentane	9.62	8.58	1.121	ok	1.122	1.062-1.182
Ethylbenzene	17.02	16.41	1.037	ok	1.037	0.977-1.097
4-Ethyltoluene	19.83	16.41	1.208	ok	1.208	1.148-1.268
Freon 113	6.59	8.58	0.768	ok	0.768	0.708-0.828
Freon 114	4.27	8.58	0.498	ok	0.498	0.438-0.558
Freon 123	5.35	8.58	0.624	ok	0.624	0.564-0.684
Freon 123A	5.40	8.58	0.629	ok	0.630	0.570-0.690
Heptane	12.03	10.80	1.114	ok	1.113	1.053-1.173
Hexachlorobutadiene	23.96	16.41	1.460	ok	1.460	1.400-1.520
Hexachloroethane	22.09	16.41	1.346	ok	1.346	1.286-1.406
Hexane	8.62	8.58	1.005	ok	1.005	0.945-1.065
Iodomethane	6.15	8.58	0.717	ok	0.717	0.657-0.777
Isopropylbenzene	18.88	16.41	1.151	ok	1.150	1.090-1.210
p-Isopropyltoluene	21.09	16.41	1.285	ok	1.285	1.225-1.345
Methylene chloride	6.34	8.58	0.739	ok	0.739	0.679-0.799
Methyl Tert Butyl Ether	7.60	8.58	0.886	ok	0.883	0.823-0.943
Naphthalene	23.53	16.41	1.434	ok	1.433	1.373-1.493
Nonane	18.35	16.41	1.118	ok	1.118	1.058-1.178
Octane	15.35	10.80	1.421	ok	1.421	1.361-1.481
n-Propylbenzene	19.62	16.41	1.196	ok	1.196	1.136-1.256
Propylene	3.98	8.58	0.464	ok	0.464	0.404-0.524
Styrene	17.82	16.41	1.086	ok	1.086	1.026-1.146
1,1,1-Trichloroethane	9.84	8.58	1.147	ok	1.147	1.087-1.207
1,1,1,2-Tetrachloroethane	16.44	10.80	1.522	ok	1.522	1.462-1.582
1,1,2,2-Tetrachloroethane	17.97	16.41	1.095	ok	1.095	1.035-1.155
1,1,2-Trichloroethane	13.64	10.80	1.263	ok	1.262	1.202-1.322
1,2,4-Trichlorobenzene	23.39	16.41	1.425	ok	1.425	1.365-1.485
1,2,3-Trichloropropane	18.17	16.41	1.107	ok	1.107	1.047-1.167
1,2,4-Trimethylbenzene	20.51	16.41	1.250	ok	1.250	1.190-1.310
1,3,5-Trimethylbenzene	19.95	16.41	1.216	ok	1.215	1.155-1.275
2,2,4-Trimethylpentane	11.70	10.80	1.083	ok	1.082	1.022-1.142
Tetrachloroethylene	15.53	10.80	1.438	ok	1.437	1.377-1.497
Toluene	14.00	10.80	1.296	ok	1.296	1.236-1.356
Trichloroethylene	11.65	10.80	1.079	ok	1.079	1.019-1.139
Trichlorofluoromethane	5.61	8.58	0.654	ok	0.654	0.594-0.714
Vinyl chloride	4.39	8.58	0.512	ok	0.511	0.451-0.571
Vinyl Acetate	7.66	8.58	0.893	ok	0.893	0.833-0.953
m,p-Xylene	17.28	16.41	1.053	ok	1.054	0.994-1.114
o-Xylene	17.97	16.41	1.095	ok	1.095	1.035-1.155

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W419-IC419	5W10668.D	04/02/15 07:47	ML	0.04	GCMS5W	TO-15	Reporting this level
V5W419-IC419	5W10669.D	04/02/15 08:28	ML	0.1	GCMS5W	TO-15	
V5W419-IC419	5W10670.D	04/02/15 09:10	ML	0.2	GCMS5W	TO-15	
V5W419-IC419	5W10671.D	04/02/15 09:52	ML	0.5	GCMS5W	TO-15	
V5W419-IC419	5W10672.D	04/02/15 10:33	ML	5	GCMS5W	TO-15	
V5W419-ICC419	5W10673.D	04/02/15 11:15	ML	10	GCMS5W	TO-15	
V5W419-IC419	5W10674.D	04/02/15 11:57	ML	20	GCMS5W	TO-15	
V5W419-IC419	5W10675.D	04/02/15 12:41	ML	30	GCMS5W	TO-15	
V5W419-IC419	5W10677.D	04/02/15 14:10	ML	40	GCMS5W	TO-15	

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.58	ok	8.58	8.25-8.91	145111	ok	137339	82403-192275
1,4-Difluorobenzene	10.80	ok	10.81	10.48-11.14	550493	ok	525267	315160-735374
Chlorobenzene-D5	16.41	ok	16.41	16.08-16.74	279132	ok	289596	173758-405434

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W419-IC419	5W10668.D	04/02/15 07:47	ML	0.04	GCMS5W	TO-15	
V5W419-IC419	5W10669.D	04/02/15 08:28	ML	0.1	GCMS5W	TO-15	Reporting this level
V5W419-IC419	5W10670.D	04/02/15 09:10	ML	0.2	GCMS5W	TO-15	
V5W419-IC419	5W10671.D	04/02/15 09:52	ML	0.5	GCMS5W	TO-15	
V5W419-IC419	5W10672.D	04/02/15 10:33	ML	5	GCMS5W	TO-15	
V5W419-ICC419	5W10673.D	04/02/15 11:15	ML	10	GCMS5W	TO-15	
V5W419-IC419	5W10674.D	04/02/15 11:57	ML	20	GCMS5W	TO-15	
V5W419-IC419	5W10675.D	04/02/15 12:41	ML	30	GCMS5W	TO-15	
V5W419-IC419	5W10677.D	04/02/15 14:10	ML	40	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.47	8.57	0.638	ok	0.636	0.576-0.696
Acrylonitrile	5.89	8.57	0.687	ok	0.686	0.626-0.746
Acetonitrile	5.22	8.57	0.609	ok	0.607	0.547-0.667
1,3-Butadiene	4.50	8.57	0.525	ok	0.525	0.465-0.585
Benzene	10.38	8.57	1.211	ok	1.210	1.150-1.270
Bromobenzene	18.98	16.41	1.157	ok	1.157	1.097-1.217
Bromodichloromethane	11.60	10.80	1.074	ok	1.074	1.014-1.134
Bromoform	17.37	16.41	1.059	ok	1.059	0.999-1.119
Bromomethane	4.75	8.57	0.554	ok	0.553	0.493-0.613
Bromoethene	5.22	8.57	0.609	ok	0.609	0.549-0.669
n-Butane	4.55	8.57	0.531	ok	0.530	0.470-0.590
n-Butylbenzene	21.63	16.41	1.318	ok	1.318	1.258-1.378
sec-Butylbenzene	20.86	16.41	1.271	ok	1.271	1.211-1.331
tert-Butylbenzene	20.49	16.41	1.249	ok	1.249	1.189-1.309
Carbon disulfide	6.64	8.57	0.775	ok	0.774	0.714-0.834
Chlorobenzene	16.47	16.41	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.94	8.57	0.460	ok	0.460	0.400-0.520
Chloroethane	4.90	8.57	0.572	ok	0.571	0.511-0.631
Chloroform	8.72	8.57	1.018	ok	1.017	0.957-1.077
Chloromethane	4.19	8.57	0.489	ok	0.488	0.428-0.548
3-Chloropropene	6.45	8.57	0.753	ok	0.752	0.692-0.812
2-Chlorotoluene	19.56	16.41	1.192	ok	1.192	1.132-1.252
Carbon tetrachloride	10.55	8.57	1.231	ok	1.230	1.170-1.290
Cyclohexane	10.70	8.57	1.249	ok	1.248	1.188-1.308
1,1-Dichloroethane	7.49	8.57	0.874	ok	0.874	0.814-0.934
1,1-Dichloroethylene	6.21	8.57	0.725	ok	0.724	0.664-0.784
1,2-Dibromoethane	14.89	10.80	1.379	ok	1.378	1.318-1.438
1,2-Dichloroethane	9.55	8.57	1.114	ok	1.114	1.054-1.174
1,2-Dichloropropane	11.36	10.80	1.052	ok	1.052	0.992-1.112
Dichlorodifluoromethane	4.04	8.57	0.471	ok	0.471	0.411-0.531
Dichlorofluoromethane	4.98	8.57	0.581	ok	0.580	0.520-0.640
Dibromochloromethane	14.56	10.80	1.348	ok	1.347	1.287-1.407
Dibromomethane	11.33	10.80	1.049	ok	1.049	0.989-1.109
trans-1,2-Dichloroethylene	7.28	8.57	0.849	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	8.39	8.57	0.979	ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	12.74	10.80	1.180	ok	1.179	1.119-1.239
m-Dichlorobenzene	20.69	16.41	1.261	ok	1.261	1.201-1.321
o-Dichlorobenzene	21.23	16.41	1.294	ok	1.294	1.234-1.354
p-Dichlorobenzene	20.79	16.41	1.267	ok	1.267	1.207-1.327

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W419-IC419	5W10668.D	04/02/15 07:47	ML	0.04	GCMS5W	TO-15	
V5W419-IC419	5W10669.D	04/02/15 08:28	ML	0.1	GCMS5W	TO-15	Reporting this level
V5W419-IC419	5W10670.D	04/02/15 09:10	ML	0.2	GCMS5W	TO-15	
V5W419-IC419	5W10671.D	04/02/15 09:52	ML	0.5	GCMS5W	TO-15	
V5W419-IC419	5W10672.D	04/02/15 10:33	ML	5	GCMS5W	TO-15	
V5W419-ICC419	5W10673.D	04/02/15 11:15	ML	10	GCMS5W	TO-15	
V5W419-IC419	5W10674.D	04/02/15 11:57	ML	20	GCMS5W	TO-15	
V5W419-IC419	5W10675.D	04/02/15 12:41	ML	30	GCMS5W	TO-15	
V5W419-IC419	5W10677.D	04/02/15 14:10	ML	40	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,3-Dichloropropene	13.42	10.80	1.243	ok	1.242	1.182-1.302
Di-Isopropyl ether	8.63	8.57	1.007	ok	1.006	0.946-1.066
2,3-Dimethylpentane	10.98	8.57	1.281	ok	1.281	1.221-1.341
2,4-Dimethylpentane	9.62	8.57	1.123	ok	1.122	1.062-1.182
Ethanol	5.02	8.57	0.586	ok	0.584	0.524-0.644
Ethylbenzene	17.02	16.41	1.037	ok	1.037	0.977-1.097
4-Ethyltoluene	19.83	16.41	1.208	ok	1.208	1.148-1.268
Freon 113	6.59	8.57	0.769	ok	0.768	0.708-0.828
Freon 114	4.27	8.57	0.498	ok	0.498	0.438-0.558
Freon 123	5.35	8.57	0.624	ok	0.624	0.564-0.684
Freon 123A	5.40	8.57	0.630	ok	0.630	0.570-0.690
Heptane	12.03	10.80	1.114	ok	1.113	1.053-1.173
Hexachlorobutadiene	23.96	16.41	1.460	ok	1.460	1.400-1.520
Hexachloroethane	22.09	16.41	1.346	ok	1.346	1.286-1.406
Hexane	8.62	8.57	1.006	ok	1.005	0.945-1.065
Iodomethane	6.15	8.57	0.718	ok	0.717	0.657-0.777
Isopropylbenzene	18.87	16.41	1.150	ok	1.150	1.090-1.210
Isopropyl Alcohol	5.69	8.57	0.664	ok	0.663	0.603-0.723
p-Isopropyltoluene	21.08	16.41	1.285	ok	1.285	1.225-1.345
Methylene chloride	6.33	8.57	0.739	ok	0.739	0.679-0.799
Methyl Tert Butyl Ether	7.59	8.57	0.886	ok	0.883	0.823-0.943
Naphthalene	23.52	16.41	1.433	ok	1.433	1.373-1.493
Nonane	18.35	16.41	1.118	ok	1.118	1.058-1.178
Octane	15.35	10.80	1.421	ok	1.421	1.361-1.481
Pentane	5.94	8.57	0.693	ok	0.692	0.632-0.752
n-Propylbenzene	19.62	16.41	1.196	ok	1.196	1.136-1.256
Propylene	3.97	8.57	0.463	ok	0.464	0.404-0.524
Styrene	17.82	16.41	1.086	ok	1.086	1.026-1.146
1,1,1-Trichloroethane	9.84	8.57	1.148	ok	1.147	1.087-1.207
1,1,1,2-Tetrachloroethane	16.45	10.80	1.523	ok	1.522	1.462-1.582
1,1,2,2-Tetrachloroethane	17.97	16.41	1.095	ok	1.095	1.035-1.155
1,1,2-Trichloroethane	13.64	10.80	1.263	ok	1.262	1.202-1.322
1,2,4-Trichlorobenzene	23.39	16.41	1.425	ok	1.425	1.365-1.485
1,2,3-Trichloropropane	18.16	16.41	1.107	ok	1.107	1.047-1.167
1,2,4-Trimethylbenzene	20.51	16.41	1.250	ok	1.250	1.190-1.310
1,3,5-Trimethylbenzene	19.94	16.41	1.215	ok	1.215	1.155-1.275
2,2,4-Trimethylpentane	11.69	10.80	1.082	ok	1.082	1.022-1.142
Tetrachloroethylene	15.53	10.80	1.438	ok	1.437	1.377-1.497
Toluene	14.00	10.80	1.296	ok	1.296	1.236-1.356

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W419-IC419	5W10668.D	04/02/15 07:47	ML	0.04	GCMS5W	TO-15	
V5W419-IC419	5W10669.D	04/02/15 08:28	ML	0.1	GCMS5W	TO-15	Reporting this level
V5W419-IC419	5W10670.D	04/02/15 09:10	ML	0.2	GCMS5W	TO-15	
V5W419-IC419	5W10671.D	04/02/15 09:52	ML	0.5	GCMS5W	TO-15	
V5W419-IC419	5W10672.D	04/02/15 10:33	ML	5	GCMS5W	TO-15	
V5W419-ICC419	5W10673.D	04/02/15 11:15	ML	10	GCMS5W	TO-15	
V5W419-IC419	5W10674.D	04/02/15 11:57	ML	20	GCMS5W	TO-15	
V5W419-IC419	5W10675.D	04/02/15 12:41	ML	30	GCMS5W	TO-15	
V5W419-IC419	5W10677.D	04/02/15 14:10	ML	40	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Trichloroethylene	11.65	10.80	1.079	ok	1.079	1.019-1.139
Trichlorofluoromethane	5.61	8.57	0.655	ok	0.654	0.594-0.714
Vinyl chloride	4.38	8.57	0.511	ok	0.511	0.451-0.571
Vinyl Acetate	7.66	8.57	0.894	ok	0.893	0.833-0.953
m,p-Xylene	17.29	16.41	1.054	ok	1.054	0.994-1.114
o-Xylene	17.97	16.41	1.095	ok	1.095	1.035-1.155

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.57	ok	8.58	8.25-8.91	151786	ok	137339	82403-192275
1,4-Difluorobenzene	10.80	ok	10.81	10.48-11.14	577588	ok	525267	315160-735374
Chlorobenzene-D5	16.41	ok	16.41	16.08-16.74	291832	ok	289596	173758-405434

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W419-IC419	5W10668.D	04/02/15 07:47	ML	0.04	GCMS5W	TO-15	
V5W419-IC419	5W10669.D	04/02/15 08:28	ML	0.1	GCMS5W	TO-15	
V5W419-IC419	5W10670.D	04/02/15 09:10	ML	0.2	GCMS5W	TO-15	Reporting this level
V5W419-IC419	5W10671.D	04/02/15 09:52	ML	0.5	GCMS5W	TO-15	
V5W419-IC419	5W10672.D	04/02/15 10:33	ML	5	GCMS5W	TO-15	
V5W419-ICC419	5W10673.D	04/02/15 11:15	ML	10	GCMS5W	TO-15	
V5W419-IC419	5W10674.D	04/02/15 11:57	ML	20	GCMS5W	TO-15	
V5W419-IC419	5W10675.D	04/02/15 12:41	ML	30	GCMS5W	TO-15	
V5W419-IC419	5W10677.D	04/02/15 14:10	ML	40	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.50	8.59	0.640	ok	0.636	0.576-0.696
Acrylonitrile	5.91	8.59	0.688	ok	0.686	0.626-0.746
Acetonitrile	5.24	8.59	0.610	ok	0.607	0.547-0.667
1,3-Butadiene	4.52	8.59	0.526	ok	0.525	0.465-0.585
Benzene	10.39	8.59	1.210	ok	1.210	1.150-1.270
Bromobenzene	18.99	16.41	1.157	ok	1.157	1.097-1.217
Bromodichloromethane	11.61	10.82	1.073	ok	1.074	1.014-1.134
Bromoform	17.37	16.41	1.059	ok	1.059	0.999-1.119
Bromomethane	4.76	8.59	0.554	ok	0.553	0.493-0.613
Bromoethene	5.24	8.59	0.610	ok	0.609	0.549-0.669
n-Butane	4.57	8.59	0.532	ok	0.530	0.470-0.590
Benzyl Chloride	20.68	16.41	1.260	ok	1.260	1.200-1.320
n-Butylbenzene	21.63	16.41	1.318	ok	1.318	1.258-1.378
sec-Butylbenzene	20.86	16.41	1.271	ok	1.271	1.211-1.331
tert-Butylbenzene	20.49	16.41	1.249	ok	1.249	1.189-1.309
Carbon disulfide	6.66	8.59	0.775	ok	0.774	0.714-0.834
Chlorobenzene	16.47	16.41	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.97	8.59	0.462	ok	0.460	0.400-0.520
Chloroethane	4.92	8.59	0.573	ok	0.571	0.511-0.631
Chloroform	8.74	8.59	1.017	ok	1.017	0.957-1.077
Chloromethane	4.21	8.59	0.490	ok	0.488	0.428-0.548
3-Chloropropene	6.48	8.59	0.754	ok	0.752	0.692-0.812
2-Chlorotoluene	19.56	16.41	1.192	ok	1.192	1.132-1.252
Carbon tetrachloride	10.57	8.59	1.231	ok	1.230	1.170-1.290
Cyclohexane	10.72	8.59	1.248	ok	1.248	1.188-1.308
1,1-Dichloroethane	7.51	8.59	0.874	ok	0.874	0.814-0.934
1,1-Dichloroethylene	6.24	8.59	0.726	ok	0.724	0.664-0.784
1,2-Dibromoethane	14.89	10.82	1.376	ok	1.378	1.318-1.438
1,2-Dichloroethane	9.57	8.59	1.114	ok	1.114	1.054-1.174
1,2-Dichloropropane	11.37	10.82	1.051	ok	1.052	0.992-1.112
1,4-Dioxane	11.72	10.82	1.083	ok	1.081	1.021-1.141
Dichlorodifluoromethane	4.06	8.59	0.473	ok	0.471	0.411-0.531
Dichlorofluoromethane	5.00	8.59	0.582	ok	0.580	0.520-0.640
Dibromochloromethane	14.57	10.82	1.347	ok	1.347	1.287-1.407
Dibromomethane	11.34	10.82	1.048	ok	1.049	0.989-1.109
trans-1,2-Dichloroethylene	7.30	8.59	0.850	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	8.40	8.59	0.978	ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	12.75	10.82	1.178	ok	1.179	1.119-1.239
m-Dichlorobenzene	20.69	16.41	1.261	ok	1.261	1.201-1.321

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W419-IC419	5W10668.D	04/02/15 07:47	ML	0.04	GCMS5W	TO-15	
V5W419-IC419	5W10669.D	04/02/15 08:28	ML	0.1	GCMS5W	TO-15	
V5W419-IC419	5W10670.D	04/02/15 09:10	ML	0.2	GCMS5W	TO-15	Reporting this level
V5W419-IC419	5W10671.D	04/02/15 09:52	ML	0.5	GCMS5W	TO-15	
V5W419-IC419	5W10672.D	04/02/15 10:33	ML	5	GCMS5W	TO-15	
V5W419-ICC419	5W10673.D	04/02/15 11:15	ML	10	GCMS5W	TO-15	
V5W419-IC419	5W10674.D	04/02/15 11:57	ML	20	GCMS5W	TO-15	
V5W419-IC419	5W10675.D	04/02/15 12:41	ML	30	GCMS5W	TO-15	
V5W419-IC419	5W10677.D	04/02/15 14:10	ML	40	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	21.23	16.41	1.294	ok	1.294	1.234-1.354
p-Dichlorobenzene	20.78	16.41	1.266	ok	1.267	1.207-1.327
trans-1,3-Dichloropropene	13.43	10.82	1.241	ok	1.242	1.182-1.302
Di-Isopropyl ether	8.65	8.59	1.007	ok	1.006	0.946-1.066
2,3-Dimethylpentane	11.00	8.59	1.281	ok	1.281	1.221-1.341
2,4-Dimethylpentane	9.64	8.59	1.122	ok	1.122	1.062-1.182
Ethanol	5.05	8.59	0.588	ok	0.584	0.524-0.644
Ethylbenzene	17.02	16.41	1.037	ok	1.037	0.977-1.097
Ethyl Acetate	8.69	8.59	1.012	ok	1.009	0.949-1.069
4-Ethyltoluene	19.83	16.41	1.208	ok	1.208	1.148-1.268
Freon 113	6.61	8.59	0.769	ok	0.768	0.708-0.828
Freon 114	4.29	8.59	0.499	ok	0.498	0.438-0.558
Freon 123	5.38	8.59	0.626	ok	0.624	0.564-0.684
Freon 123A	5.43	8.59	0.632	ok	0.630	0.570-0.690
Freon 152A	3.93	8.59	0.458	ok	0.456	0.396-0.516
Heptane	12.04	10.82	1.113	ok	1.113	1.053-1.173
Hexachlorobutadiene	23.96	16.41	1.460	ok	1.460	1.400-1.520
Hexachloroethane	22.09	16.41	1.346	ok	1.346	1.286-1.406
Hexane	8.64	8.59	1.006	ok	1.005	0.945-1.065
2-Hexanone	14.40	10.82	1.331	ok	1.330	1.270-1.390
Iodomethane	6.17	8.59	0.718	ok	0.717	0.657-0.777
Isopropylbenzene	18.88	16.41	1.151	ok	1.150	1.090-1.210
Isopropyl Alcohol	5.73	8.59	0.667	ok	0.663	0.603-0.723
p-Isopropyltoluene	21.08	16.41	1.285	ok	1.285	1.225-1.345
Methylene chloride	6.36	8.59	0.740	ok	0.739	0.679-0.799
Methyl ethyl ketone	7.98	8.59	0.929	ok	0.925	0.865-0.985
Methyl Isobutyl Ketone	12.83	10.82	1.186	ok	1.185	1.125-1.245
Methyl Tert Butyl Ether	7.60	8.59	0.885	ok	0.883	0.823-0.943
Methylmethacrylate	11.94	10.82	1.104	ok	1.103	1.043-1.163
Naphthalene	23.52	16.41	1.433	ok	1.433	1.373-1.493
Nonane	18.35	16.41	1.118	ok	1.118	1.058-1.178
Octane	15.36	10.82	1.420	ok	1.421	1.361-1.481
Pentane	5.97	8.59	0.695	ok	0.692	0.632-0.752
n-Propylbenzene	19.62	16.41	1.196	ok	1.196	1.136-1.256
Propylene	3.99	8.59	0.464	ok	0.464	0.404-0.524
Styrene	17.82	16.41	1.086	ok	1.086	1.026-1.146
1,1,1-Trichloroethane	9.86	8.59	1.148	ok	1.147	1.087-1.207
1,1,1,2-Tetrachloroethane	16.45	10.82	1.520	ok	1.522	1.462-1.582
1,1,2,2-Tetrachloroethane	17.97	16.41	1.095	ok	1.095	1.035-1.155

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W419-IC419	5W10668.D	04/02/15 07:47	ML	0.04	GCMS5W	TO-15	
V5W419-IC419	5W10669.D	04/02/15 08:28	ML	0.1	GCMS5W	TO-15	
V5W419-IC419	5W10670.D	04/02/15 09:10	ML	0.2	GCMS5W	TO-15	Reporting this level
V5W419-IC419	5W10671.D	04/02/15 09:52	ML	0.5	GCMS5W	TO-15	
V5W419-IC419	5W10672.D	04/02/15 10:33	ML	5	GCMS5W	TO-15	
V5W419-ICC419	5W10673.D	04/02/15 11:15	ML	10	GCMS5W	TO-15	
V5W419-IC419	5W10674.D	04/02/15 11:57	ML	20	GCMS5W	TO-15	
V5W419-IC419	5W10675.D	04/02/15 12:41	ML	30	GCMS5W	TO-15	
V5W419-IC419	5W10677.D	04/02/15 14:10	ML	40	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2-Trichloroethane	13.64	10.82	1.261	ok	1.262	1.202-1.322
1,2,4-Trichlorobenzene	23.39	16.41	1.425	ok	1.425	1.365-1.485
1,2,3-Trichloropropane	18.16	16.41	1.107	ok	1.107	1.047-1.167
1,2,4-Trimethylbenzene	20.50	16.41	1.249	ok	1.250	1.190-1.310
1,3,5-Trimethylbenzene	19.94	16.41	1.215	ok	1.215	1.155-1.275
2,2,4-Trimethylpentane	11.70	10.82	1.081	ok	1.082	1.022-1.142
Tertiary Butyl Alcohol	6.31	8.59	0.735	ok	0.731	0.671-0.791
Tetrachloroethylene	15.53	10.82	1.435	ok	1.437	1.377-1.497
Tetrahydrofuran	9.26	8.59	1.078	ok	1.073	1.013-1.133
Toluene	14.01	10.82	1.295	ok	1.296	1.236-1.356
Trichloroethylene	11.67	10.82	1.079	ok	1.079	1.019-1.139
Trichlorofluoromethane	5.63	8.59	0.655	ok	0.654	0.594-0.714
Vinyl chloride	4.40	8.59	0.512	ok	0.511	0.451-0.571
Vinyl Acetate	7.68	8.59	0.894	ok	0.893	0.833-0.953
m,p-Xylene	17.30	16.41	1.054	ok	1.054	0.994-1.114
o-Xylene	17.97	16.41	1.095	ok	1.095	1.035-1.155
TVHC As Equiv Pentane	5.96	16.41	0.363	ok	0.362	0.302-0.422

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.59	ok	8.58	8.25-8.91	146491	ok	137339	82403-192275
1,4-Difluorobenzene	10.82	ok	10.81	10.48-11.14	561880	ok	525267	315160-735374
Chlorobenzene-D5	16.41	ok	16.41	16.08-16.74	287785	ok	289596	173758-405434

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W419-IC419	5W10668.D	04/02/15 07:47	ML	0.04	GCMS5W	TO-15	
V5W419-IC419	5W10669.D	04/02/15 08:28	ML	0.1	GCMS5W	TO-15	
V5W419-IC419	5W10670.D	04/02/15 09:10	ML	0.2	GCMS5W	TO-15	
V5W419-IC419	5W10671.D	04/02/15 09:52	ML	0.5	GCMS5W	TO-15	Reporting this level
V5W419-IC419	5W10672.D	04/02/15 10:33	ML	5	GCMS5W	TO-15	
V5W419-ICC419	5W10673.D	04/02/15 11:15	ML	10	GCMS5W	TO-15	
V5W419-IC419	5W10674.D	04/02/15 11:57	ML	20	GCMS5W	TO-15	
V5W419-IC419	5W10675.D	04/02/15 12:41	ML	30	GCMS5W	TO-15	
V5W419-IC419	5W10677.D	04/02/15 14:10	ML	40	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.46	8.57	0.637	ok	0.636	0.576-0.696
Acrylonitrile	5.88	8.57	0.686	ok	0.686	0.626-0.746
Acetonitrile	5.20	8.57	0.607	ok	0.607	0.547-0.667
1,3-Butadiene	4.50	8.57	0.525	ok	0.525	0.465-0.585
Benzene	10.37	8.57	1.210	ok	1.210	1.150-1.270
Bromobenzene	18.98	16.41	1.157	ok	1.157	1.097-1.217
Bromodichloromethane	11.59	10.80	1.073	ok	1.074	1.014-1.134
Bromoform	17.37	16.41	1.059	ok	1.059	0.999-1.119
Bromomethane	4.74	8.57	0.553	ok	0.553	0.493-0.613
Bromoethene	5.22	8.57	0.609	ok	0.609	0.549-0.669
n-Butane	4.54	8.57	0.530	ok	0.530	0.470-0.590
Benzyl Chloride	20.68	16.41	1.260	ok	1.260	1.200-1.320
n-Butylbenzene	21.63	16.41	1.318	ok	1.318	1.258-1.378
sec-Butylbenzene	20.86	16.41	1.271	ok	1.271	1.211-1.331
tert-Butylbenzene	20.49	16.41	1.249	ok	1.249	1.189-1.309
Carbon disulfide	6.63	8.57	0.774	ok	0.774	0.714-0.834
Chlorobenzene	16.47	16.41	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.94	8.57	0.460	ok	0.460	0.400-0.520
Chloroethane	4.89	8.57	0.571	ok	0.571	0.511-0.631
Chloroform	8.71	8.57	1.016	ok	1.017	0.957-1.077
Chloromethane	4.18	8.57	0.488	ok	0.488	0.428-0.548
3-Chloropropene	6.45	8.57	0.753	ok	0.752	0.692-0.812
2-Chlorotoluene	19.55	16.41	1.191	ok	1.192	1.132-1.252
Carbon tetrachloride	10.55	8.57	1.231	ok	1.230	1.170-1.290
Cyclohexane	10.70	8.57	1.249	ok	1.248	1.188-1.308
1,1-Dichloroethane	7.49	8.57	0.874	ok	0.874	0.814-0.934
1,1-Dichloroethylene	6.21	8.57	0.725	ok	0.724	0.664-0.784
1,2-Dibromoethane	14.88	10.80	1.378	ok	1.378	1.318-1.438
1,2-Dichloroethane	9.55	8.57	1.114	ok	1.114	1.054-1.174
1,2-Dichloropropane	11.36	10.80	1.052	ok	1.052	0.992-1.112
1,4-Dioxane	11.70	10.80	1.083	ok	1.081	1.021-1.141
Dichlorodifluoromethane	4.04	8.57	0.471	ok	0.471	0.411-0.531
Dichlorofluoromethane	4.97	8.57	0.580	ok	0.580	0.520-0.640
Dibromochloromethane	14.55	10.80	1.347	ok	1.347	1.287-1.407
Dibromomethane	11.33	10.80	1.049	ok	1.049	0.989-1.109
trans-1,2-Dichloroethylene	7.28	8.57	0.849	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	8.39	8.57	0.979	ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	12.74	10.80	1.180	ok	1.179	1.119-1.239
m-Dichlorobenzene	20.69	16.41	1.261	ok	1.261	1.201-1.321

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W419-IC419	5W10668.D	04/02/15 07:47	ML	0.04	GCMS5W	TO-15	
V5W419-IC419	5W10669.D	04/02/15 08:28	ML	0.1	GCMS5W	TO-15	
V5W419-IC419	5W10670.D	04/02/15 09:10	ML	0.2	GCMS5W	TO-15	
V5W419-IC419	5W10671.D	04/02/15 09:52	ML	0.5	GCMS5W	TO-15	Reporting this level
V5W419-IC419	5W10672.D	04/02/15 10:33	ML	5	GCMS5W	TO-15	
V5W419-ICC419	5W10673.D	04/02/15 11:15	ML	10	GCMS5W	TO-15	
V5W419-IC419	5W10674.D	04/02/15 11:57	ML	20	GCMS5W	TO-15	
V5W419-IC419	5W10675.D	04/02/15 12:41	ML	30	GCMS5W	TO-15	
V5W419-IC419	5W10677.D	04/02/15 14:10	ML	40	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	21.23	16.41	1.294	ok	1.294	1.234-1.354
p-Dichlorobenzene	20.78	16.41	1.266	ok	1.267	1.207-1.327
trans-1,3-Dichloropropene	13.41	10.80	1.242	ok	1.242	1.182-1.302
Di-Isopropyl ether	8.62	8.57	1.006	ok	1.006	0.946-1.066
2,3-Dimethylpentane	10.99	8.57	1.282	ok	1.281	1.221-1.341
2,4-Dimethylpentane	9.62	8.57	1.123	ok	1.122	1.062-1.182
Ethanol	5.00	8.57	0.583	ok	0.584	0.524-0.644
Ethylbenzene	17.02	16.41	1.037	ok	1.037	0.977-1.097
Ethyl Acetate	8.66	8.57	1.011	ok	1.009	0.949-1.069
4-Ethyltoluene	19.83	16.41	1.208	ok	1.208	1.148-1.268
Freon 113	6.59	8.57	0.769	ok	0.768	0.708-0.828
Freon 114	4.27	8.57	0.498	ok	0.498	0.438-0.558
Freon 123	5.35	8.57	0.624	ok	0.624	0.564-0.684
Freon 123A	5.40	8.57	0.630	ok	0.630	0.570-0.690
Freon 152A	3.90	8.57	0.455	ok	0.456	0.396-0.516
Heptane	12.03	10.80	1.114	ok	1.113	1.053-1.173
Hexachlorobutadiene	23.96	16.41	1.460	ok	1.460	1.400-1.520
Hexachloroethane	22.09	16.41	1.346	ok	1.346	1.286-1.406
Hexane	8.62	8.57	1.006	ok	1.005	0.945-1.065
2-Hexanone	14.38	10.80	1.331	ok	1.330	1.270-1.390
Iodomethane	6.14	8.57	0.716	ok	0.717	0.657-0.777
Isopropylbenzene	18.87	16.41	1.150	ok	1.150	1.090-1.210
Isopropyl Alcohol	5.68	8.57	0.663	ok	0.663	0.603-0.723
p-Isopropyltoluene	21.08	16.41	1.285	ok	1.285	1.225-1.345
Methylene chloride	6.32	8.57	0.737	ok	0.739	0.679-0.799
Methyl ethyl ketone	7.93	8.57	0.925	ok	0.925	0.865-0.985
Methyl Isobutyl Ketone	12.81	10.80	1.186	ok	1.185	1.125-1.245
Methyl Tert Butyl Ether	7.57	8.57	0.883	ok	0.883	0.823-0.943
Methylmethacrylate	11.92	10.80	1.104	ok	1.103	1.043-1.163
Naphthalene	23.52	16.41	1.433	ok	1.433	1.373-1.493
Nonane	18.35	16.41	1.118	ok	1.118	1.058-1.178
Octane	15.35	10.80	1.421	ok	1.421	1.361-1.481
Pentane	5.93	8.57	0.692	ok	0.692	0.632-0.752
n-Propylbenzene	19.62	16.41	1.196	ok	1.196	1.136-1.256
Propylene	3.97	8.57	0.463	ok	0.464	0.404-0.524
Styrene	17.81	16.41	1.085	ok	1.086	1.026-1.146
1,1,1-Trichloroethane	9.84	8.57	1.148	ok	1.147	1.087-1.207
1,1,1,2-Tetrachloroethane	16.44	10.80	1.522	ok	1.522	1.462-1.582
1,1,2,2-Tetrachloroethane	17.97	16.41	1.095	ok	1.095	1.035-1.155

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W419-IC419	5W10668.D	04/02/15 07:47	ML	0.04	GCMS5W	TO-15	
V5W419-IC419	5W10669.D	04/02/15 08:28	ML	0.1	GCMS5W	TO-15	
V5W419-IC419	5W10670.D	04/02/15 09:10	ML	0.2	GCMS5W	TO-15	
V5W419-IC419	5W10671.D	04/02/15 09:52	ML	0.5	GCMS5W	TO-15	Reporting this level
V5W419-IC419	5W10672.D	04/02/15 10:33	ML	5	GCMS5W	TO-15	
V5W419-ICC419	5W10673.D	04/02/15 11:15	ML	10	GCMS5W	TO-15	
V5W419-IC419	5W10674.D	04/02/15 11:57	ML	20	GCMS5W	TO-15	
V5W419-IC419	5W10675.D	04/02/15 12:41	ML	30	GCMS5W	TO-15	
V5W419-IC419	5W10677.D	04/02/15 14:10	ML	40	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2-Trichloroethane	13.63	10.80	1.262	ok	1.262	1.202-1.322
1,2,4-Trichlorobenzene	23.39	16.41	1.425	ok	1.425	1.365-1.485
1,2,3-Trichloropropane	18.16	16.41	1.107	ok	1.107	1.047-1.167
1,2,4-Trimethylbenzene	20.50	16.41	1.249	ok	1.250	1.190-1.310
1,3,5-Trimethylbenzene	19.94	16.41	1.215	ok	1.215	1.155-1.275
2,2,4-Trimethylpentane	11.69	10.80	1.082	ok	1.082	1.022-1.142
Tertiary Butyl Alcohol	6.27	8.57	0.732	ok	0.731	0.671-0.791
Tetrachloroethylene	15.52	10.80	1.437	ok	1.437	1.377-1.497
Tetrahydrofuran	9.22	8.57	1.076	ok	1.073	1.013-1.133
Toluene	14.00	10.80	1.296	ok	1.296	1.236-1.356
Trichloroethylene	11.65	10.80	1.079	ok	1.079	1.019-1.139
Trichlorofluoromethane	5.60	8.57	0.653	ok	0.654	0.594-0.714
Vinyl chloride	4.37	8.57	0.510	ok	0.511	0.451-0.571
Vinyl Acetate	7.65	8.57	0.893	ok	0.893	0.833-0.953
m,p-Xylene	17.29	16.41	1.054	ok	1.054	0.994-1.114
o-Xylene	17.97	16.41	1.095	ok	1.095	1.035-1.155
TVHC As Equiv Pentane	5.93	16.41	0.361	ok	0.362	0.302-0.422

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.57	ok	8.58	8.25-8.91	143660	ok	137339	82403-192275
1,4-Difluorobenzene	10.80	ok	10.81	10.48-11.14	551602	ok	525267	315160-735374
Chlorobenzene-D5	16.41	ok	16.41	16.08-16.74	281353	ok	289596	173758-405434

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W419-IC419	5W10668.D	04/02/15 07:47	ML	0.04	GCMS5W	TO-15	
V5W419-IC419	5W10669.D	04/02/15 08:28	ML	0.1	GCMS5W	TO-15	
V5W419-IC419	5W10670.D	04/02/15 09:10	ML	0.2	GCMS5W	TO-15	
V5W419-IC419	5W10671.D	04/02/15 09:52	ML	0.5	GCMS5W	TO-15	
V5W419-IC419	5W10672.D	04/02/15 10:33	ML	5	GCMS5W	TO-15	Reporting this level
V5W419-ICC419	5W10673.D	04/02/15 11:15	ML	10	GCMS5W	TO-15	
V5W419-IC419	5W10674.D	04/02/15 11:57	ML	20	GCMS5W	TO-15	
V5W419-IC419	5W10675.D	04/02/15 12:41	ML	30	GCMS5W	TO-15	
V5W419-IC419	5W10677.D	04/02/15 14:10	ML	40	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.45	8.58	0.635	ok	0.636	0.576-0.696
Acrylonitrile	5.88	8.58	0.685	ok	0.686	0.626-0.746
Acetonitrile	5.21	8.58	0.607	ok	0.607	0.547-0.667
1,3-Butadiene	4.50	8.58	0.524	ok	0.525	0.465-0.585
Benzene	10.37	8.58	1.209	ok	1.210	1.150-1.270
Bromobenzene	18.98	16.41	1.157	ok	1.157	1.097-1.217
Bromodichloromethane	11.60	10.80	1.074	ok	1.074	1.014-1.134
Bromoform	17.37	16.41	1.059	ok	1.059	0.999-1.119
Bromomethane	4.75	8.58	0.554	ok	0.553	0.493-0.613
Bromoethene	5.22	8.58	0.608	ok	0.609	0.549-0.669
n-Butane	4.55	8.58	0.530	ok	0.530	0.470-0.590
Benzyl Chloride	20.67	16.41	1.260	ok	1.260	1.200-1.320
n-Butylbenzene	21.63	16.41	1.318	ok	1.318	1.258-1.378
sec-Butylbenzene	20.86	16.41	1.271	ok	1.271	1.211-1.331
tert-Butylbenzene	20.49	16.41	1.249	ok	1.249	1.189-1.309
Carbon disulfide	6.64	8.58	0.774	ok	0.774	0.714-0.834
Chlorobenzene	16.47	16.41	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.94	8.58	0.459	ok	0.460	0.400-0.520
Chloroethane	4.90	8.58	0.571	ok	0.571	0.511-0.631
Chloroform	8.72	8.58	1.016	ok	1.017	0.957-1.077
Chloromethane	4.18	8.58	0.487	ok	0.488	0.428-0.548
3-Chloropropene	6.45	8.58	0.752	ok	0.752	0.692-0.812
2-Chlorotoluene	19.55	16.41	1.191	ok	1.192	1.132-1.252
Carbon tetrachloride	10.55	8.58	1.230	ok	1.230	1.170-1.290
Cyclohexane	10.70	8.58	1.247	ok	1.248	1.188-1.308
1,1-Dichloroethane	7.49	8.58	0.873	ok	0.874	0.814-0.934
1,1-Dichloroethylene	6.21	8.58	0.724	ok	0.724	0.664-0.784
1,2-Dibromoethane	14.88	10.80	1.378	ok	1.378	1.318-1.438
1,2-Dichloroethane	9.55	8.58	1.113	ok	1.114	1.054-1.174
1,2-Dichloropropane	11.36	10.80	1.052	ok	1.052	0.992-1.112
1,4-Dioxane	11.67	10.80	1.081	ok	1.081	1.021-1.141
Dichlorodifluoromethane	4.04	8.58	0.471	ok	0.471	0.411-0.531
Dichlorofluoromethane	4.98	8.58	0.580	ok	0.580	0.520-0.640
Dibromochloromethane	14.55	10.80	1.347	ok	1.347	1.287-1.407
Dibromomethane	11.33	10.80	1.049	ok	1.049	0.989-1.109
trans-1,2-Dichloroethylene	7.28	8.58	0.848	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	8.39	8.58	0.978	ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	12.73	10.80	1.179	ok	1.179	1.119-1.239
m-Dichlorobenzene	20.69	16.41	1.261	ok	1.261	1.201-1.321

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W419-IC419	5W10668.D	04/02/15 07:47	ML	0.04	GCMS5W	TO-15	
V5W419-IC419	5W10669.D	04/02/15 08:28	ML	0.1	GCMS5W	TO-15	
V5W419-IC419	5W10670.D	04/02/15 09:10	ML	0.2	GCMS5W	TO-15	
V5W419-IC419	5W10671.D	04/02/15 09:52	ML	0.5	GCMS5W	TO-15	
V5W419-IC419	5W10672.D	04/02/15 10:33	ML	5	GCMS5W	TO-15	Reporting this level
V5W419-ICC419	5W10673.D	04/02/15 11:15	ML	10	GCMS5W	TO-15	
V5W419-IC419	5W10674.D	04/02/15 11:57	ML	20	GCMS5W	TO-15	
V5W419-IC419	5W10675.D	04/02/15 12:41	ML	30	GCMS5W	TO-15	
V5W419-IC419	5W10677.D	04/02/15 14:10	ML	40	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	21.23	16.41	1.294	ok	1.294	1.234-1.354
p-Dichlorobenzene	20.78	16.41	1.266	ok	1.267	1.207-1.327
trans-1,3-Dichloropropene	13.41	10.80	1.242	ok	1.242	1.182-1.302
Di-Isopropyl ether	8.62	8.58	1.005	ok	1.006	0.946-1.066
2,3-Dimethylpentane	10.99	8.58	1.281	ok	1.281	1.221-1.341
2,4-Dimethylpentane	9.62	8.58	1.121	ok	1.122	1.062-1.182
Ethanol	5.00	8.58	0.583	ok	0.584	0.524-0.644
Ethylbenzene	17.02	16.41	1.037	ok	1.037	0.977-1.097
Ethyl Acetate	8.65	8.58	1.008	ok	1.009	0.949-1.069
4-Ethyltoluene	19.83	16.41	1.208	ok	1.208	1.148-1.268
Freon 113	6.59	8.58	0.768	ok	0.768	0.708-0.828
Freon 114	4.27	8.58	0.498	ok	0.498	0.438-0.558
Freon 123	5.35	8.58	0.624	ok	0.624	0.564-0.684
Freon 123A	5.40	8.58	0.629	ok	0.630	0.570-0.690
Freon 152A	3.91	8.58	0.456	ok	0.456	0.396-0.516
Heptane	12.03	10.80	1.114	ok	1.113	1.053-1.173
Hexachlorobutadiene	23.96	16.41	1.460	ok	1.460	1.400-1.520
Hexachloroethane	22.09	16.41	1.346	ok	1.346	1.286-1.406
Hexane	8.62	8.58	1.005	ok	1.005	0.945-1.065
2-Hexanone	14.37	10.80	1.331	ok	1.330	1.270-1.390
Iodomethane	6.14	8.58	0.716	ok	0.717	0.657-0.777
Isopropylbenzene	18.87	16.41	1.150	ok	1.150	1.090-1.210
Isopropyl Alcohol	5.68	8.58	0.662	ok	0.663	0.603-0.723
p-Isopropyltoluene	21.08	16.41	1.285	ok	1.285	1.225-1.345
Methylene chloride	6.33	8.58	0.738	ok	0.739	0.679-0.799
Methyl ethyl ketone	7.92	8.58	0.923	ok	0.925	0.865-0.985
Methyl Isobutyl Ketone	12.80	10.80	1.185	ok	1.185	1.125-1.245
Methyl Tert Butyl Ether	7.56	8.58	0.881	ok	0.883	0.823-0.943
Methylmethacrylate	11.92	10.80	1.104	ok	1.103	1.043-1.163
Naphthalene	23.51	16.41	1.433	ok	1.433	1.373-1.493
Nonane	18.35	16.41	1.118	ok	1.118	1.058-1.178
Octane	15.35	10.80	1.421	ok	1.421	1.361-1.481
Pentane	5.94	8.58	0.692	ok	0.692	0.632-0.752
n-Propylbenzene	19.62	16.41	1.196	ok	1.196	1.136-1.256
Propylene	3.98	8.58	0.464	ok	0.464	0.404-0.524
Styrene	17.81	16.41	1.085	ok	1.086	1.026-1.146
1,1,1-Trichloroethane	9.84	8.58	1.147	ok	1.147	1.087-1.207
1,1,1,2-Tetrachloroethane	16.45	10.80	1.523	ok	1.522	1.462-1.582
1,1,2,2-Tetrachloroethane	17.96	16.41	1.094	ok	1.095	1.035-1.155

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W419-IC419	5W10668.D	04/02/15 07:47	ML	0.04	GCMS5W	TO-15	
V5W419-IC419	5W10669.D	04/02/15 08:28	ML	0.1	GCMS5W	TO-15	
V5W419-IC419	5W10670.D	04/02/15 09:10	ML	0.2	GCMS5W	TO-15	
V5W419-IC419	5W10671.D	04/02/15 09:52	ML	0.5	GCMS5W	TO-15	
V5W419-IC419	5W10672.D	04/02/15 10:33	ML	5	GCMS5W	TO-15	Reporting this level
V5W419-ICC419	5W10673.D	04/02/15 11:15	ML	10	GCMS5W	TO-15	
V5W419-IC419	5W10674.D	04/02/15 11:57	ML	20	GCMS5W	TO-15	
V5W419-IC419	5W10675.D	04/02/15 12:41	ML	30	GCMS5W	TO-15	
V5W419-IC419	5W10677.D	04/02/15 14:10	ML	40	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2-Trichloroethane	13.63	10.80	1.262	ok	1.262	1.202-1.322
1,2,4-Trichlorobenzene	23.38	16.41	1.425	ok	1.425	1.365-1.485
1,2,3-Trichloropropane	18.16	16.41	1.107	ok	1.107	1.047-1.167
1,2,4-Trimethylbenzene	20.50	16.41	1.249	ok	1.250	1.190-1.310
1,3,5-Trimethylbenzene	19.94	16.41	1.215	ok	1.215	1.155-1.275
2,2,4-Trimethylpentane	11.69	10.80	1.082	ok	1.082	1.022-1.142
Tertiary Butyl Alcohol	6.25	8.58	0.728	ok	0.731	0.671-0.791
Tetrachloroethylene	15.52	10.80	1.437	ok	1.437	1.377-1.497
Tetrahydrofuran	9.19	8.58	1.071	ok	1.073	1.013-1.133
Toluene	14.00	10.80	1.296	ok	1.296	1.236-1.356
Trichloroethylene	11.65	10.80	1.079	ok	1.079	1.019-1.139
Trichlorofluoromethane	5.60	8.58	0.653	ok	0.654	0.594-0.714
Vinyl chloride	4.38	8.58	0.510	ok	0.511	0.451-0.571
Vinyl Acetate	7.65	8.58	0.892	ok	0.893	0.833-0.953
m,p-Xylene	17.29	16.41	1.054	ok	1.054	0.994-1.114
o-Xylene	17.97	16.41	1.095	ok	1.095	1.035-1.155
TVHC As Equiv Pentane	5.94	16.41	0.362	ok	0.362	0.302-0.422

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.58	ok	8.58	8.25-8.91	135816	ok	137339	82403-192275
1,4-Difluorobenzene	10.80	ok	10.81	10.48-11.14	523140	ok	525267	315160-735374
Chlorobenzene-D5	16.41	ok	16.41	16.08-16.74	276865	ok	289596	173758-405434

Initial Calibration Retention Time/Internal Standard Area Summary

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V5W419-IC419	5W10668.D	04/02/15 07:47	ML	0.04	GCMS5W	TO-15	
V5W419-IC419	5W10669.D	04/02/15 08:28	ML	0.1	GCMS5W	TO-15	
V5W419-IC419	5W10670.D	04/02/15 09:10	ML	0.2	GCMS5W	TO-15	
V5W419-IC419	5W10671.D	04/02/15 09:52	ML	0.5	GCMS5W	TO-15	
V5W419-IC419	5W10672.D	04/02/15 10:33	ML	5	GCMS5W	TO-15	
V5W419-ICC419	5W10673.D	04/02/15 11:15	ML	10	GCMS5W	TO-15	Reporting this level
V5W419-IC419	5W10674.D	04/02/15 11:57	ML	20	GCMS5W	TO-15	
V5W419-IC419	5W10675.D	04/02/15 12:41	ML	30	GCMS5W	TO-15	
V5W419-IC419	5W10677.D	04/02/15 14:10	ML	40	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.44	8.58	0.634	ok	0.636	0.576-0.696
Acrylonitrile	5.88	8.58	0.685	ok	0.686	0.626-0.746
Acetonitrile	5.20	8.58	0.606	ok	0.607	0.547-0.667
1,3-Butadiene	4.50	8.58	0.524	ok	0.525	0.465-0.585
Benzene	10.38	8.58	1.210	ok	1.210	1.150-1.270
Bromobenzene	18.98	16.41	1.157	ok	1.157	1.097-1.217
Bromodichloromethane	11.60	10.80	1.074	ok	1.074	1.014-1.134
Bromoform	17.37	16.41	1.059	ok	1.059	0.999-1.119
Bromomethane	4.74	8.58	0.552	ok	0.553	0.493-0.613
Bromoethene	5.22	8.58	0.608	ok	0.609	0.549-0.669
n-Butane	4.54	8.58	0.529	ok	0.530	0.470-0.590
Benzyl Chloride	20.68	16.41	1.260	ok	1.260	1.200-1.320
n-Butylbenzene	21.63	16.41	1.318	ok	1.318	1.258-1.378
sec-Butylbenzene	20.86	16.41	1.271	ok	1.271	1.211-1.331
tert-Butylbenzene	20.49	16.41	1.249	ok	1.249	1.189-1.309
Carbon disulfide	6.64	8.58	0.774	ok	0.774	0.714-0.834
Chlorobenzene	16.47	16.41	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.94	8.58	0.459	ok	0.460	0.400-0.520
Chloroethane	4.89	8.58	0.570	ok	0.571	0.511-0.631
Chloroform	8.72	8.58	1.016	ok	1.017	0.957-1.077
Chloromethane	4.18	8.58	0.487	ok	0.488	0.428-0.548
3-Chloropropene	6.45	8.58	0.752	ok	0.752	0.692-0.812
2-Chlorotoluene	19.56	16.41	1.192	ok	1.192	1.132-1.252
Carbon tetrachloride	10.55	8.58	1.230	ok	1.230	1.170-1.290
Cyclohexane	10.70	8.58	1.247	ok	1.248	1.188-1.308
1,1-Dichloroethane	7.49	8.58	0.873	ok	0.874	0.814-0.934
1,1-Dichloroethylene	6.21	8.58	0.724	ok	0.724	0.664-0.784
1,2-Dibromoethane	14.88	10.80	1.378	ok	1.378	1.318-1.438
1,2-Dichloroethane	9.55	8.58	1.113	ok	1.114	1.054-1.174
1,2-Dichloropropane	11.36	10.80	1.052	ok	1.052	0.992-1.112
1,4-Dioxane	11.67	10.80	1.081	ok	1.081	1.021-1.141
Dichlorodifluoromethane	4.04	8.58	0.471	ok	0.471	0.411-0.531
Dichlorofluoromethane	4.97	8.58	0.579	ok	0.580	0.520-0.640
Dibromochloromethane	14.55	10.80	1.347	ok	1.347	1.287-1.407
Dibromomethane	11.33	10.80	1.049	ok	1.049	0.989-1.109
trans-1,2-Dichloroethylene	7.28	8.58	0.848	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	8.39	8.58	0.978	ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	12.74	10.80	1.180	ok	1.179	1.119-1.239
m-Dichlorobenzene	20.69	16.41	1.261	ok	1.261	1.201-1.321

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W419-IC419	5W10668.D	04/02/15 07:47	ML	0.04	GCMS5W	TO-15	
V5W419-IC419	5W10669.D	04/02/15 08:28	ML	0.1	GCMS5W	TO-15	
V5W419-IC419	5W10670.D	04/02/15 09:10	ML	0.2	GCMS5W	TO-15	
V5W419-IC419	5W10671.D	04/02/15 09:52	ML	0.5	GCMS5W	TO-15	
V5W419-IC419	5W10672.D	04/02/15 10:33	ML	5	GCMS5W	TO-15	
V5W419-ICC419	5W10673.D	04/02/15 11:15	ML	10	GCMS5W	TO-15	Reporting this level
V5W419-IC419	5W10674.D	04/02/15 11:57	ML	20	GCMS5W	TO-15	
V5W419-IC419	5W10675.D	04/02/15 12:41	ML	30	GCMS5W	TO-15	
V5W419-IC419	5W10677.D	04/02/15 14:10	ML	40	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	21.23	16.41	1.294	ok	1.294	1.234-1.354
p-Dichlorobenzene	20.78	16.41	1.266	ok	1.267	1.207-1.327
trans-1,3-Dichloropropene	13.41	10.80	1.242	ok	1.242	1.182-1.302
Di-Isopropyl ether	8.62	8.58	1.005	ok	1.006	0.946-1.066
2,3-Dimethylpentane	10.99	8.58	1.281	ok	1.281	1.221-1.341
2,4-Dimethylpentane	9.62	8.58	1.121	ok	1.122	1.062-1.182
Ethanol	5.00	8.58	0.583	ok	0.584	0.524-0.644
Ethylbenzene	17.02	16.41	1.037	ok	1.037	0.977-1.097
Ethyl Acetate	8.65	8.58	1.008	ok	1.009	0.949-1.069
4-Ethyltoluene	19.83	16.41	1.208	ok	1.208	1.148-1.268
Freon 113	6.59	8.58	0.768	ok	0.768	0.708-0.828
Freon 114	4.27	8.58	0.498	ok	0.498	0.438-0.558
Freon 123	5.35	8.58	0.624	ok	0.624	0.564-0.684
Freon 123A	5.40	8.58	0.629	ok	0.630	0.570-0.690
Freon 152A	3.90	8.58	0.455	ok	0.456	0.396-0.516
Heptane	12.03	10.80	1.114	ok	1.113	1.053-1.173
Hexachlorobutadiene	23.96	16.41	1.460	ok	1.460	1.400-1.520
Hexachloroethane	22.09	16.41	1.346	ok	1.346	1.286-1.406
Hexane	8.62	8.58	1.005	ok	1.005	0.945-1.065
2-Hexanone	14.37	10.80	1.331	ok	1.330	1.270-1.390
Iodomethane	6.14	8.58	0.716	ok	0.717	0.657-0.777
Isopropylbenzene	18.87	16.41	1.150	ok	1.150	1.090-1.210
Isopropyl Alcohol	5.68	8.58	0.662	ok	0.663	0.603-0.723
p-Isopropyltoluene	21.08	16.41	1.285	ok	1.285	1.225-1.345
Methylene chloride	6.33	8.58	0.738	ok	0.739	0.679-0.799
Methyl ethyl ketone	7.92	8.58	0.923	ok	0.925	0.865-0.985
Methyl Isobutyl Ketone	12.79	10.80	1.184	ok	1.185	1.125-1.245
Methyl Tert Butyl Ether	7.56	8.58	0.881	ok	0.883	0.823-0.943
Methylmethacrylate	11.92	10.80	1.104	ok	1.103	1.043-1.163
Naphthalene	23.51	16.41	1.433	ok	1.433	1.373-1.493
Nonane	18.35	16.41	1.118	ok	1.118	1.058-1.178
Octane	15.35	10.80	1.421	ok	1.421	1.361-1.481
Pentane	5.93	8.58	0.691	ok	0.692	0.632-0.752
n-Propylbenzene	19.62	16.41	1.196	ok	1.196	1.136-1.256
Propylene	3.97	8.58	0.463	ok	0.464	0.404-0.524
Styrene	17.81	16.41	1.085	ok	1.086	1.026-1.146
1,1,1-Trichloroethane	9.84	8.58	1.147	ok	1.147	1.087-1.207
1,1,1,2-Tetrachloroethane	16.45	10.80	1.523	ok	1.522	1.462-1.582
1,1,2,2-Tetrachloroethane	17.96	16.41	1.094	ok	1.095	1.035-1.155

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W419-IC419	5W10668.D	04/02/15 07:47	ML	0.04	GCMS5W	TO-15	
V5W419-IC419	5W10669.D	04/02/15 08:28	ML	0.1	GCMS5W	TO-15	
V5W419-IC419	5W10670.D	04/02/15 09:10	ML	0.2	GCMS5W	TO-15	
V5W419-IC419	5W10671.D	04/02/15 09:52	ML	0.5	GCMS5W	TO-15	
V5W419-IC419	5W10672.D	04/02/15 10:33	ML	5	GCMS5W	TO-15	
V5W419-ICC419	5W10673.D	04/02/15 11:15	ML	10	GCMS5W	TO-15	Reporting this level
V5W419-IC419	5W10674.D	04/02/15 11:57	ML	20	GCMS5W	TO-15	
V5W419-IC419	5W10675.D	04/02/15 12:41	ML	30	GCMS5W	TO-15	
V5W419-IC419	5W10677.D	04/02/15 14:10	ML	40	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2-Trichloroethane	13.64	10.80	1.263	ok	1.262	1.202-1.322
1,2,4-Trichlorobenzene	23.38	16.41	1.425	ok	1.425	1.365-1.485
1,2,3-Trichloropropane	18.16	16.41	1.107	ok	1.107	1.047-1.167
1,2,4-Trimethylbenzene	20.50	16.41	1.249	ok	1.250	1.190-1.310
1,3,5-Trimethylbenzene	19.94	16.41	1.215	ok	1.215	1.155-1.275
2,2,4-Trimethylpentane	11.69	10.80	1.082	ok	1.082	1.022-1.142
Tertiary Butyl Alcohol	6.26	8.58	0.730	ok	0.731	0.671-0.791
Tetrachloroethylene	15.53	10.80	1.438	ok	1.437	1.377-1.497
Tetrahydrofuran	9.19	8.58	1.071	ok	1.073	1.013-1.133
Toluene	14.00	10.80	1.296	ok	1.296	1.236-1.356
Trichloroethylene	11.65	10.80	1.079	ok	1.079	1.019-1.139
Trichlorofluoromethane	5.60	8.58	0.653	ok	0.654	0.594-0.714
Vinyl chloride	4.37	8.58	0.509	ok	0.511	0.451-0.571
Vinyl Acetate	7.65	8.58	0.892	ok	0.893	0.833-0.953
m,p-Xylene	17.29	16.41	1.054	ok	1.054	0.994-1.114
o-Xylene	17.97	16.41	1.095	ok	1.095	1.035-1.155
TVHC As Equiv Pentane	5.93	16.41	0.361	ok	0.362	0.302-0.422

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.58	ok	8.58	8.25-8.91	125305	ok	137339	82403-192275
1,4-Difluorobenzene	10.80	ok	10.81	10.48-11.14	487477	ok	525267	315160-735374
Chlorobenzene-D5	16.41	ok	16.41	16.08-16.74	274874	ok	289596	173758-405434

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W419-IC419	5W10668.D	04/02/15 07:47	ML	0.04	GCMS5W	TO-15	
V5W419-IC419	5W10669.D	04/02/15 08:28	ML	0.1	GCMS5W	TO-15	
V5W419-IC419	5W10670.D	04/02/15 09:10	ML	0.2	GCMS5W	TO-15	
V5W419-IC419	5W10671.D	04/02/15 09:52	ML	0.5	GCMS5W	TO-15	
V5W419-IC419	5W10672.D	04/02/15 10:33	ML	5	GCMS5W	TO-15	
V5W419-ICC419	5W10673.D	04/02/15 11:15	ML	10	GCMS5W	TO-15	
V5W419-IC419	5W10674.D	04/02/15 11:57	ML	20	GCMS5W	TO-15	Reporting this level
V5W419-IC419	5W10675.D	04/02/15 12:41	ML	30	GCMS5W	TO-15	
V5W419-IC419	5W10677.D	04/02/15 14:10	ML	40	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.44	8.58	0.634	ok	0.636	0.576-0.696
Acrylonitrile	5.88	8.58	0.685	ok	0.686	0.626-0.746
Acetonitrile	5.20	8.58	0.606	ok	0.607	0.547-0.667
1,3-Butadiene	4.50	8.58	0.524	ok	0.525	0.465-0.585
Benzene	10.38	8.58	1.210	ok	1.210	1.150-1.270
Bromobenzene	18.98	16.41	1.157	ok	1.157	1.097-1.217
Bromodichloromethane	11.60	10.81	1.073	ok	1.074	1.014-1.134
Bromoform	17.37	16.41	1.059	ok	1.059	0.999-1.119
Bromomethane	4.74	8.58	0.552	ok	0.553	0.493-0.613
Bromoethene	5.22	8.58	0.608	ok	0.609	0.549-0.669
n-Butane	4.54	8.58	0.529	ok	0.530	0.470-0.590
Benzyl Chloride	20.68	16.41	1.260	ok	1.260	1.200-1.320
n-Butylbenzene	21.63	16.41	1.318	ok	1.318	1.258-1.378
sec-Butylbenzene	20.86	16.41	1.271	ok	1.271	1.211-1.331
tert-Butylbenzene	20.49	16.41	1.249	ok	1.249	1.189-1.309
Carbon disulfide	6.64	8.58	0.774	ok	0.774	0.714-0.834
Chlorobenzene	16.47	16.41	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.94	8.58	0.459	ok	0.460	0.400-0.520
Chloroethane	4.89	8.58	0.570	ok	0.571	0.511-0.631
Chloroform	8.72	8.58	1.016	ok	1.017	0.957-1.077
Chloromethane	4.18	8.58	0.487	ok	0.488	0.428-0.548
3-Chloropropene	6.45	8.58	0.752	ok	0.752	0.692-0.812
2-Chlorotoluene	19.56	16.41	1.192	ok	1.192	1.132-1.252
Carbon tetrachloride	10.55	8.58	1.230	ok	1.230	1.170-1.290
Cyclohexane	10.70	8.58	1.247	ok	1.248	1.188-1.308
1,1-Dichloroethane	7.49	8.58	0.873	ok	0.874	0.814-0.934
1,1-Dichloroethylene	6.21	8.58	0.724	ok	0.724	0.664-0.784
1,2-Dibromoethane	14.88	10.81	1.377	ok	1.378	1.318-1.438
1,2-Dichloroethane	9.55	8.58	1.113	ok	1.114	1.054-1.174
1,2-Dichloropropane	11.36	10.81	1.051	ok	1.052	0.992-1.112
1,4-Dioxane	11.67	10.81	1.080	ok	1.081	1.021-1.141
Dichlorodifluoromethane	4.04	8.58	0.471	ok	0.471	0.411-0.531
Dichlorofluoromethane	4.97	8.58	0.579	ok	0.580	0.520-0.640
Dibromochloromethane	14.56	10.81	1.347	ok	1.347	1.287-1.407
Dibromomethane	11.33	10.81	1.048	ok	1.049	0.989-1.109
trans-1,2-Dichloroethylene	7.28	8.58	0.848	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	8.39	8.58	0.978	ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	12.74	10.81	1.179	ok	1.179	1.119-1.239
m-Dichlorobenzene	20.69	16.41	1.261	ok	1.261	1.201-1.321

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W419-IC419	5W10668.D	04/02/15 07:47	ML	0.04	GCMS5W	TO-15	
V5W419-IC419	5W10669.D	04/02/15 08:28	ML	0.1	GCMS5W	TO-15	
V5W419-IC419	5W10670.D	04/02/15 09:10	ML	0.2	GCMS5W	TO-15	
V5W419-IC419	5W10671.D	04/02/15 09:52	ML	0.5	GCMS5W	TO-15	
V5W419-IC419	5W10672.D	04/02/15 10:33	ML	5	GCMS5W	TO-15	
V5W419-ICC419	5W10673.D	04/02/15 11:15	ML	10	GCMS5W	TO-15	
V5W419-IC419	5W10674.D	04/02/15 11:57	ML	20	GCMS5W	TO-15	Reporting this level
V5W419-IC419	5W10675.D	04/02/15 12:41	ML	30	GCMS5W	TO-15	
V5W419-IC419	5W10677.D	04/02/15 14:10	ML	40	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	21.23	16.41	1.294	ok	1.294	1.234-1.354
p-Dichlorobenzene	20.79	16.41	1.267	ok	1.267	1.207-1.327
trans-1,3-Dichloropropene	13.42	10.81	1.241	ok	1.242	1.182-1.302
Di-Isopropyl ether	8.62	8.58	1.005	ok	1.006	0.946-1.066
2,3-Dimethylpentane	10.99	8.58	1.281	ok	1.281	1.221-1.341
2,4-Dimethylpentane	9.62	8.58	1.121	ok	1.122	1.062-1.182
Ethanol	5.00	8.58	0.583	ok	0.584	0.524-0.644
Ethylbenzene	17.02	16.41	1.037	ok	1.037	0.977-1.097
Ethyl Acetate	8.65	8.58	1.008	ok	1.009	0.949-1.069
4-Ethyltoluene	19.83	16.41	1.208	ok	1.208	1.148-1.268
Freon 113	6.59	8.58	0.768	ok	0.768	0.708-0.828
Freon 114	4.27	8.58	0.498	ok	0.498	0.438-0.558
Freon 123	5.35	8.58	0.624	ok	0.624	0.564-0.684
Freon 123A	5.40	8.58	0.629	ok	0.630	0.570-0.690
Freon 152A	3.90	8.58	0.455	ok	0.456	0.396-0.516
Heptane	12.03	10.81	1.113	ok	1.113	1.053-1.173
Hexachlorobutadiene	23.96	16.41	1.460	ok	1.460	1.400-1.520
Hexachloroethane	22.09	16.41	1.346	ok	1.346	1.286-1.406
Hexane	8.62	8.58	1.005	ok	1.005	0.945-1.065
2-Hexanone	14.38	10.81	1.330	ok	1.330	1.270-1.390
Iodomethane	6.14	8.58	0.716	ok	0.717	0.657-0.777
Isopropylbenzene	18.88	16.41	1.151	ok	1.150	1.090-1.210
Isopropyl Alcohol	5.68	8.58	0.662	ok	0.663	0.603-0.723
p-Isopropyltoluene	21.08	16.41	1.285	ok	1.285	1.225-1.345
Methylene chloride	6.33	8.58	0.738	ok	0.739	0.679-0.799
Methyl ethyl ketone	7.92	8.58	0.923	ok	0.925	0.865-0.985
Methyl Isobutyl Ketone	12.80	10.81	1.184	ok	1.185	1.125-1.245
Methyl Tert Butyl Ether	7.56	8.58	0.881	ok	0.883	0.823-0.943
Methylmethacrylate	11.92	10.81	1.103	ok	1.103	1.043-1.163
Naphthalene	23.52	16.41	1.433	ok	1.433	1.373-1.493
Nonane	18.35	16.41	1.118	ok	1.118	1.058-1.178
Octane	15.35	10.81	1.420	ok	1.421	1.361-1.481
Pentane	5.93	8.58	0.691	ok	0.692	0.632-0.752
n-Propylbenzene	19.62	16.41	1.196	ok	1.196	1.136-1.256
Propylene	3.97	8.58	0.463	ok	0.464	0.404-0.524
Styrene	17.81	16.41	1.085	ok	1.086	1.026-1.146
1,1,1-Trichloroethane	9.84	8.58	1.147	ok	1.147	1.087-1.207
1,1,1,2-Tetrachloroethane	16.45	10.81	1.522	ok	1.522	1.462-1.582
1,1,2,2-Tetrachloroethane	17.97	16.41	1.095	ok	1.095	1.035-1.155

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W419-IC419	5W10668.D	04/02/15 07:47	ML	0.04	GCMS5W	TO-15	
V5W419-IC419	5W10669.D	04/02/15 08:28	ML	0.1	GCMS5W	TO-15	
V5W419-IC419	5W10670.D	04/02/15 09:10	ML	0.2	GCMS5W	TO-15	
V5W419-IC419	5W10671.D	04/02/15 09:52	ML	0.5	GCMS5W	TO-15	
V5W419-IC419	5W10672.D	04/02/15 10:33	ML	5	GCMS5W	TO-15	
V5W419-ICC419	5W10673.D	04/02/15 11:15	ML	10	GCMS5W	TO-15	
V5W419-IC419	5W10674.D	04/02/15 11:57	ML	20	GCMS5W	TO-15	Reporting this level
V5W419-IC419	5W10675.D	04/02/15 12:41	ML	30	GCMS5W	TO-15	
V5W419-IC419	5W10677.D	04/02/15 14:10	ML	40	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2-Trichloroethane	13.64	10.81	1.262	ok	1.262	1.202-1.322
1,2,4-Trichlorobenzene	23.39	16.41	1.425	ok	1.425	1.365-1.485
1,2,3-Trichloropropane	18.16	16.41	1.107	ok	1.107	1.047-1.167
1,2,4-Trimethylbenzene	20.51	16.41	1.250	ok	1.250	1.190-1.310
1,3,5-Trimethylbenzene	19.94	16.41	1.215	ok	1.215	1.155-1.275
2,2,4-Trimethylpentane	11.69	10.81	1.081	ok	1.082	1.022-1.142
Tertiary Butyl Alcohol	6.26	8.58	0.730	ok	0.731	0.671-0.791
Tetrachloroethylene	15.53	10.81	1.437	ok	1.437	1.377-1.497
Tetrahydrofuran	9.19	8.58	1.071	ok	1.073	1.013-1.133
Toluene	14.00	10.81	1.295	ok	1.296	1.236-1.356
Trichloroethylene	11.65	10.81	1.078	ok	1.079	1.019-1.139
Trichlorofluoromethane	5.60	8.58	0.653	ok	0.654	0.594-0.714
Vinyl chloride	4.37	8.58	0.509	ok	0.511	0.451-0.571
Vinyl Acetate	7.65	8.58	0.892	ok	0.893	0.833-0.953
m,p-Xylene	17.29	16.41	1.054	ok	1.054	0.994-1.114
o-Xylene	17.97	16.41	1.095	ok	1.095	1.035-1.155
TVHC As Equiv Pentane	5.93	16.41	0.361	ok	0.362	0.302-0.422

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.58	ok	8.58	8.25-8.91	130719	ok	137339	82403-192275
1,4-Difluorobenzene	10.81	ok	10.81	10.48-11.14	500969	ok	525267	315160-735374
Chlorobenzene-D5	16.41	ok	16.41	16.08-16.74	291612	ok	289596	173758-405434

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W419-IC419	5W10668.D	04/02/15 07:47	ML	0.04	GCMS5W	TO-15	
V5W419-IC419	5W10669.D	04/02/15 08:28	ML	0.1	GCMS5W	TO-15	
V5W419-IC419	5W10670.D	04/02/15 09:10	ML	0.2	GCMS5W	TO-15	
V5W419-IC419	5W10671.D	04/02/15 09:52	ML	0.5	GCMS5W	TO-15	
V5W419-IC419	5W10672.D	04/02/15 10:33	ML	5	GCMS5W	TO-15	
V5W419-ICC419	5W10673.D	04/02/15 11:15	ML	10	GCMS5W	TO-15	
V5W419-IC419	5W10674.D	04/02/15 11:57	ML	20	GCMS5W	TO-15	
V5W419-IC419	5W10675.D	04/02/15 12:41	ML	30	GCMS5W	TO-15	Reporting this level
V5W419-IC419	5W10677.D	04/02/15 14:10	ML	40	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.45	8.58	0.635	ok	0.636	0.576-0.696
Acrylonitrile	5.88	8.58	0.685	ok	0.686	0.626-0.746
Acetonitrile	5.20	8.58	0.606	ok	0.607	0.547-0.667
1,3-Butadiene	4.50	8.58	0.524	ok	0.525	0.465-0.585
Benzene	10.39	8.58	1.211	ok	1.210	1.150-1.270
Bromobenzene	18.99	16.41	1.157	ok	1.157	1.097-1.217
Bromodichloromethane	11.61	10.81	1.074	ok	1.074	1.014-1.134
Bromoform	17.37	16.41	1.059	ok	1.059	0.999-1.119
Bromomethane	4.75	8.58	0.554	ok	0.553	0.493-0.613
Bromoethene	5.22	8.58	0.608	ok	0.609	0.549-0.669
n-Butane	4.55	8.58	0.530	ok	0.530	0.470-0.590
Benzyl Chloride	20.68	16.41	1.260	ok	1.260	1.200-1.320
n-Butylbenzene	21.63	16.41	1.318	ok	1.318	1.258-1.378
sec-Butylbenzene	20.86	16.41	1.271	ok	1.271	1.211-1.331
tert-Butylbenzene	20.49	16.41	1.249	ok	1.249	1.189-1.309
Carbon disulfide	6.64	8.58	0.774	ok	0.774	0.714-0.834
Chlorobenzene	16.47	16.41	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.94	8.58	0.459	ok	0.460	0.400-0.520
Chloroethane	4.90	8.58	0.571	ok	0.571	0.511-0.631
Chloroform	8.73	8.58	1.017	ok	1.017	0.957-1.077
Chloromethane	4.19	8.58	0.488	ok	0.488	0.428-0.548
3-Chloropropene	6.45	8.58	0.752	ok	0.752	0.692-0.812
2-Chlorotoluene	19.56	16.41	1.192	ok	1.192	1.132-1.252
Carbon tetrachloride	10.56	8.58	1.231	ok	1.230	1.170-1.290
Cyclohexane	10.70	8.58	1.247	ok	1.248	1.188-1.308
1,1-Dichloroethane	7.50	8.58	0.874	ok	0.874	0.814-0.934
1,1-Dichloroethylene	6.21	8.58	0.724	ok	0.724	0.664-0.784
1,2-Dibromoethane	14.89	10.81	1.377	ok	1.378	1.318-1.438
1,2-Dichloroethane	9.55	8.58	1.113	ok	1.114	1.054-1.174
1,2-Dichloropropane	11.37	10.81	1.052	ok	1.052	0.992-1.112
1,4-Dioxane	11.67	10.81	1.080	ok	1.081	1.021-1.141
Dichlorodifluoromethane	4.04	8.58	0.471	ok	0.471	0.411-0.531
Dichlorofluoromethane	4.98	8.58	0.580	ok	0.580	0.520-0.640
Dibromochloromethane	14.56	10.81	1.347	ok	1.347	1.287-1.407
Dibromomethane	11.33	10.81	1.048	ok	1.049	0.989-1.109
trans-1,2-Dichloroethylene	7.29	8.58	0.850	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	8.39	8.58	0.978	ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	12.74	10.81	1.179	ok	1.179	1.119-1.239
m-Dichlorobenzene	20.70	16.41	1.261	ok	1.261	1.201-1.321

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W419-IC419	5W10668.D	04/02/15 07:47	ML	0.04	GCMS5W	TO-15	
V5W419-IC419	5W10669.D	04/02/15 08:28	ML	0.1	GCMS5W	TO-15	
V5W419-IC419	5W10670.D	04/02/15 09:10	ML	0.2	GCMS5W	TO-15	
V5W419-IC419	5W10671.D	04/02/15 09:52	ML	0.5	GCMS5W	TO-15	
V5W419-IC419	5W10672.D	04/02/15 10:33	ML	5	GCMS5W	TO-15	
V5W419-ICC419	5W10673.D	04/02/15 11:15	ML	10	GCMS5W	TO-15	
V5W419-IC419	5W10674.D	04/02/15 11:57	ML	20	GCMS5W	TO-15	
V5W419-IC419	5W10675.D	04/02/15 12:41	ML	30	GCMS5W	TO-15	Reporting this level
V5W419-IC419	5W10677.D	04/02/15 14:10	ML	40	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	21.23	16.41	1.294	ok	1.294	1.234-1.354
p-Dichlorobenzene	20.79	16.41	1.267	ok	1.267	1.207-1.327
trans-1,3-Dichloropropene	13.42	10.81	1.241	ok	1.242	1.182-1.302
Di-Isopropyl ether	8.62	8.58	1.005	ok	1.006	0.946-1.066
2,3-Dimethylpentane	10.99	8.58	1.281	ok	1.281	1.221-1.341
2,4-Dimethylpentane	9.62	8.58	1.121	ok	1.122	1.062-1.182
Ethanol	5.01	8.58	0.584	ok	0.584	0.524-0.644
Ethylbenzene	17.02	16.41	1.037	ok	1.037	0.977-1.097
Ethyl Acetate	8.66	8.58	1.009	ok	1.009	0.949-1.069
4-Ethyltoluene	19.83	16.41	1.208	ok	1.208	1.148-1.268
Freon 113	6.59	8.58	0.768	ok	0.768	0.708-0.828
Freon 114	4.28	8.58	0.499	ok	0.498	0.438-0.558
Freon 123	5.35	8.58	0.624	ok	0.624	0.564-0.684
Freon 123A	5.41	8.58	0.631	ok	0.630	0.570-0.690
Freon 152A	3.91	8.58	0.456	ok	0.456	0.396-0.516
Heptane	12.03	10.81	1.113	ok	1.113	1.053-1.173
Hexachlorobutadiene	23.97	16.41	1.461	ok	1.460	1.400-1.520
Hexachloroethane	22.09	16.41	1.346	ok	1.346	1.286-1.406
Hexane	8.62	8.58	1.005	ok	1.005	0.945-1.065
2-Hexanone	14.38	10.81	1.330	ok	1.330	1.270-1.390
Iodomethane	6.15	8.58	0.717	ok	0.717	0.657-0.777
Isopropylbenzene	18.88	16.41	1.151	ok	1.150	1.090-1.210
Isopropyl Alcohol	5.69	8.58	0.663	ok	0.663	0.603-0.723
p-Isopropyltoluene	21.09	16.41	1.285	ok	1.285	1.225-1.345
Methylene chloride	6.34	8.58	0.739	ok	0.739	0.679-0.799
Methyl ethyl ketone	7.93	8.58	0.924	ok	0.925	0.865-0.985
Methyl Isobutyl Ketone	12.80	10.81	1.184	ok	1.185	1.125-1.245
Methyl Tert Butyl Ether	7.56	8.58	0.881	ok	0.883	0.823-0.943
Methylmethacrylate	11.93	10.81	1.104	ok	1.103	1.043-1.163
Naphthalene	23.52	16.41	1.433	ok	1.433	1.373-1.493
Nonane	18.35	16.41	1.118	ok	1.118	1.058-1.178
Octane	15.35	10.81	1.420	ok	1.421	1.361-1.481
Pentane	5.94	8.58	0.692	ok	0.692	0.632-0.752
n-Propylbenzene	19.62	16.41	1.196	ok	1.196	1.136-1.256
Propylene	3.98	8.58	0.464	ok	0.464	0.404-0.524
Styrene	17.82	16.41	1.086	ok	1.086	1.026-1.146
1,1,1-Trichloroethane	9.84	8.58	1.147	ok	1.147	1.087-1.207
1,1,1,2-Tetrachloroethane	16.46	10.81	1.523	ok	1.522	1.462-1.582
1,1,2,2-Tetrachloroethane	17.97	16.41	1.095	ok	1.095	1.035-1.155

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W419-IC419	5W10668.D	04/02/15 07:47	ML	0.04	GCMS5W	TO-15	
V5W419-IC419	5W10669.D	04/02/15 08:28	ML	0.1	GCMS5W	TO-15	
V5W419-IC419	5W10670.D	04/02/15 09:10	ML	0.2	GCMS5W	TO-15	
V5W419-IC419	5W10671.D	04/02/15 09:52	ML	0.5	GCMS5W	TO-15	
V5W419-IC419	5W10672.D	04/02/15 10:33	ML	5	GCMS5W	TO-15	
V5W419-ICC419	5W10673.D	04/02/15 11:15	ML	10	GCMS5W	TO-15	
V5W419-IC419	5W10674.D	04/02/15 11:57	ML	20	GCMS5W	TO-15	
V5W419-IC419	5W10675.D	04/02/15 12:41	ML	30	GCMS5W	TO-15	Reporting this level
V5W419-IC419	5W10677.D	04/02/15 14:10	ML	40	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2-Trichloroethane	13.64	10.81	1.262	ok	1.262	1.202-1.322
1,2,4-Trichlorobenzene	23.39	16.41	1.425	ok	1.425	1.365-1.485
1,2,3-Trichloropropane	18.16	16.41	1.107	ok	1.107	1.047-1.167
1,2,4-Trimethylbenzene	20.51	16.41	1.250	ok	1.250	1.190-1.310
1,3,5-Trimethylbenzene	19.95	16.41	1.216	ok	1.215	1.155-1.275
2,2,4-Trimethylpentane	11.70	10.81	1.082	ok	1.082	1.022-1.142
Tertiary Butyl Alcohol	6.27	8.58	0.731	ok	0.731	0.671-0.791
Tetrachloroethylene	15.53	10.81	1.437	ok	1.437	1.377-1.497
Tetrahydrofuran	9.19	8.58	1.071	ok	1.073	1.013-1.133
Toluene	14.00	10.81	1.295	ok	1.296	1.236-1.356
Trichloroethylene	11.66	10.81	1.079	ok	1.079	1.019-1.139
Trichlorofluoromethane	5.61	8.58	0.654	ok	0.654	0.594-0.714
Vinyl chloride	4.38	8.58	0.510	ok	0.511	0.451-0.571
Vinyl Acetate	7.65	8.58	0.892	ok	0.893	0.833-0.953
m,p-Xylene	17.30	16.41	1.054	ok	1.054	0.994-1.114
o-Xylene	17.98	16.41	1.096	ok	1.095	1.035-1.155
TVHC As Equiv Pentane	5.94	16.41	0.362	ok	0.362	0.302-0.422

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.58	ok	8.58	8.25-8.91	131508	ok	137339	82403-192275
1,4-Difluorobenzene	10.81	ok	10.81	10.48-11.14	500121	ok	525267	315160-735374
Chlorobenzene-D5	16.41	ok	16.41	16.08-16.74	309082	ok	289596	173758-405434

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W419-IC419	5W10668.D	04/02/15 07:47	ML	0.04	GCMS5W	TO-15	
V5W419-IC419	5W10669.D	04/02/15 08:28	ML	0.1	GCMS5W	TO-15	
V5W419-IC419	5W10670.D	04/02/15 09:10	ML	0.2	GCMS5W	TO-15	
V5W419-IC419	5W10671.D	04/02/15 09:52	ML	0.5	GCMS5W	TO-15	
V5W419-IC419	5W10672.D	04/02/15 10:33	ML	5	GCMS5W	TO-15	
V5W419-ICC419	5W10673.D	04/02/15 11:15	ML	10	GCMS5W	TO-15	
V5W419-IC419	5W10674.D	04/02/15 11:57	ML	20	GCMS5W	TO-15	
V5W419-IC419	5W10675.D	04/02/15 12:41	ML	30	GCMS5W	TO-15	
V5W419-IC419	5W10677.D	04/02/15 14:10	ML	40	GCMS5W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	5.45	8.58	0.635	ok	0.636	0.576-0.696
Acrylonitrile	5.89	8.58	0.686	ok	0.686	0.626-0.746
Acetonitrile	5.21	8.58	0.607	ok	0.607	0.547-0.667
1,3-Butadiene	4.50	8.58	0.524	ok	0.525	0.465-0.585
Benzene	10.39	8.58	1.211	ok	1.210	1.150-1.270
Bromobenzene	18.99	16.41	1.157	ok	1.157	1.097-1.217
Bromodichloromethane	11.61	10.82	1.073	ok	1.074	1.014-1.134
Bromoform	17.38	16.41	1.059	ok	1.059	0.999-1.119
Bromomethane	4.75	8.58	0.554	ok	0.553	0.493-0.613
Bromoethene	5.22	8.58	0.608	ok	0.609	0.549-0.669
n-Butane	4.54	8.58	0.529	ok	0.530	0.470-0.590
Benzyl Chloride	20.68	16.41	1.260	ok	1.260	1.200-1.320
n-Butylbenzene	21.64	16.41	1.319	ok	1.318	1.258-1.378
sec-Butylbenzene	20.87	16.41	1.272	ok	1.271	1.211-1.331
tert-Butylbenzene	20.50	16.41	1.249	ok	1.249	1.189-1.309
Carbon disulfide	6.64	8.58	0.774	ok	0.774	0.714-0.834
Chlorobenzene	16.48	16.41	1.004	ok	1.004	0.944-1.064
Chlorodifluoromethane	3.94	8.58	0.459	ok	0.460	0.400-0.520
Chloroethane	4.90	8.58	0.571	ok	0.571	0.511-0.631
Chloroform	8.73	8.58	1.017	ok	1.017	0.957-1.077
Chloromethane	4.18	8.58	0.487	ok	0.488	0.428-0.548
3-Chloropropene	6.45	8.58	0.752	ok	0.752	0.692-0.812
2-Chlorotoluene	19.56	16.41	1.192	ok	1.192	1.132-1.252
Carbon tetrachloride	10.56	8.58	1.231	ok	1.230	1.170-1.290
Cyclohexane	10.70	8.58	1.247	ok	1.248	1.188-1.308
1,1-Dichloroethane	7.50	8.58	0.874	ok	0.874	0.814-0.934
1,1-Dichloroethylene	6.21	8.58	0.724	ok	0.724	0.664-0.784
1,2-Dibromoethane	14.90	10.82	1.377	ok	1.378	1.318-1.438
1,2-Dichloroethane	9.56	8.58	1.114	ok	1.114	1.054-1.174
1,2-Dichloropropane	11.37	10.82	1.051	ok	1.052	0.992-1.112
1,4-Dioxane	11.68	10.82	1.079	ok	1.081	1.021-1.141
Dichlorodifluoromethane	4.04	8.58	0.471	ok	0.471	0.411-0.531
Dichlorofluoromethane	4.98	8.58	0.580	ok	0.580	0.520-0.640
Dibromochloromethane	14.57	10.82	1.347	ok	1.347	1.287-1.407
Dibromomethane	11.34	10.82	1.048	ok	1.049	0.989-1.109
trans-1,2-Dichloroethylene	7.29	8.58	0.850	ok	0.849	0.789-0.909
cis-1,2-Dichloroethylene	8.40	8.58	0.979	ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	12.74	10.82	1.177	ok	1.179	1.119-1.239
m-Dichlorobenzene	20.70	16.41	1.261	ok	1.261	1.201-1.321

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W419-IC419	5W10668.D	04/02/15 07:47	ML	0.04	GCMS5W	TO-15	
V5W419-IC419	5W10669.D	04/02/15 08:28	ML	0.1	GCMS5W	TO-15	
V5W419-IC419	5W10670.D	04/02/15 09:10	ML	0.2	GCMS5W	TO-15	
V5W419-IC419	5W10671.D	04/02/15 09:52	ML	0.5	GCMS5W	TO-15	
V5W419-IC419	5W10672.D	04/02/15 10:33	ML	5	GCMS5W	TO-15	
V5W419-ICC419	5W10673.D	04/02/15 11:15	ML	10	GCMS5W	TO-15	
V5W419-IC419	5W10674.D	04/02/15 11:57	ML	20	GCMS5W	TO-15	
V5W419-IC419	5W10675.D	04/02/15 12:41	ML	30	GCMS5W	TO-15	
V5W419-IC419	5W10677.D	04/02/15 14:10	ML	40	GCMS5W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	21.23	16.41	1.294	ok	1.294	1.234-1.354
p-Dichlorobenzene	20.79	16.41	1.267	ok	1.267	1.207-1.327
trans-1,3-Dichloropropene	13.42	10.82	1.240	ok	1.242	1.182-1.302
Di-Isopropyl ether	8.62	8.58	1.005	ok	1.006	0.946-1.066
2,3-Dimethylpentane	11.00	8.58	1.282	ok	1.281	1.221-1.341
2,4-Dimethylpentane	9.62	8.58	1.121	ok	1.122	1.062-1.182
Ethanol	5.02	8.58	0.585	ok	0.584	0.524-0.644
Ethylbenzene	17.02	16.41	1.037	ok	1.037	0.977-1.097
Ethyl Acetate	8.66	8.58	1.009	ok	1.009	0.949-1.069
4-Ethyltoluene	19.83	16.41	1.208	ok	1.208	1.148-1.268
Freon 113	6.59	8.58	0.768	ok	0.768	0.708-0.828
Freon 114	4.27	8.58	0.498	ok	0.498	0.438-0.558
Freon 123	5.35	8.58	0.624	ok	0.624	0.564-0.684
Freon 123A	5.41	8.58	0.631	ok	0.630	0.570-0.690
Freon 152A	3.91	8.58	0.456	ok	0.456	0.396-0.516
Heptane	12.03	10.82	1.112	ok	1.113	1.053-1.173
Hexachlorobutadiene	23.97	16.41	1.461	ok	1.460	1.400-1.520
Hexachloroethane	22.10	16.41	1.347	ok	1.346	1.286-1.406
Hexane	8.62	8.58	1.005	ok	1.005	0.945-1.065
2-Hexanone	14.38	10.82	1.329	ok	1.330	1.270-1.390
Iodomethane	6.15	8.58	0.717	ok	0.717	0.657-0.777
Isopropylbenzene	18.88	16.41	1.151	ok	1.150	1.090-1.210
Isopropyl Alcohol	5.69	8.58	0.663	ok	0.663	0.603-0.723
p-Isopropyltoluene	21.09	16.41	1.285	ok	1.285	1.225-1.345
Methylene chloride	6.34	8.58	0.739	ok	0.739	0.679-0.799
Methyl ethyl ketone	7.93	8.58	0.924	ok	0.925	0.865-0.985
Methyl Isobutyl Ketone	12.80	10.82	1.183	ok	1.185	1.125-1.245
Methyl Tert Butyl Ether	7.57	8.58	0.882	ok	0.883	0.823-0.943
Methylmethacrylate	11.93	10.82	1.103	ok	1.103	1.043-1.163
Naphthalene	23.52	16.41	1.433	ok	1.433	1.373-1.493
Nonane	18.35	16.41	1.118	ok	1.118	1.058-1.178
Octane	15.36	10.82	1.420	ok	1.421	1.361-1.481
Pentane	5.94	8.58	0.692	ok	0.692	0.632-0.752
n-Propylbenzene	19.62	16.41	1.196	ok	1.196	1.136-1.256
Propylene	3.98	8.58	0.464	ok	0.464	0.404-0.524
Styrene	17.82	16.41	1.086	ok	1.086	1.026-1.146
1,1,1-Trichloroethane	9.85	8.58	1.148	ok	1.147	1.087-1.207
1,1,1,2-Tetrachloroethane	16.46	10.82	1.521	ok	1.522	1.462-1.582
1,1,2,2-Tetrachloroethane	17.97	16.41	1.095	ok	1.095	1.035-1.155

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W419-IC419	5W10668.D	04/02/15 07:47	ML	0.04	GCMS5W	TO-15	
V5W419-IC419	5W10669.D	04/02/15 08:28	ML	0.1	GCMS5W	TO-15	
V5W419-IC419	5W10670.D	04/02/15 09:10	ML	0.2	GCMS5W	TO-15	
V5W419-IC419	5W10671.D	04/02/15 09:52	ML	0.5	GCMS5W	TO-15	
V5W419-IC419	5W10672.D	04/02/15 10:33	ML	5	GCMS5W	TO-15	
V5W419-ICC419	5W10673.D	04/02/15 11:15	ML	10	GCMS5W	TO-15	
V5W419-IC419	5W10674.D	04/02/15 11:57	ML	20	GCMS5W	TO-15	
V5W419-IC419	5W10675.D	04/02/15 12:41	ML	30	GCMS5W	TO-15	
V5W419-IC419	5W10677.D	04/02/15 14:10	ML	40	GCMS5W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2-Trichloroethane	13.64	10.82	1.261	ok	1.262	1.202-1.322
1,2,4-Trichlorobenzene	23.39	16.41	1.425	ok	1.425	1.365-1.485
1,2,3-Trichloropropane	18.17	16.41	1.107	ok	1.107	1.047-1.167
1,2,4-Trimethylbenzene	20.51	16.41	1.250	ok	1.250	1.190-1.310
1,3,5-Trimethylbenzene	19.95	16.41	1.216	ok	1.215	1.155-1.275
2,2,4-Trimethylpentane	11.70	10.82	1.081	ok	1.082	1.022-1.142
Tertiary Butyl Alcohol	6.28	8.58	0.732	ok	0.731	0.671-0.791
Tetrachloroethylene	15.53	10.82	1.435	ok	1.437	1.377-1.497
Tetrahydrofuran	9.19	8.58	1.071	ok	1.073	1.013-1.133
Toluene	14.00	10.82	1.294	ok	1.296	1.236-1.356
Trichloroethylene	11.67	10.82	1.079	ok	1.079	1.019-1.139
Trichlorofluoromethane	5.61	8.58	0.654	ok	0.654	0.594-0.714
Vinyl chloride	4.38	8.58	0.510	ok	0.511	0.451-0.571
Vinyl Acetate	7.66	8.58	0.893	ok	0.893	0.833-0.953
m,p-Xylene	17.30	16.41	1.054	ok	1.054	0.994-1.114
o-Xylene	17.98	16.41	1.096	ok	1.095	1.035-1.155
TVHC As Equiv Pentane	5.94	16.41	0.362	ok	0.362	0.302-0.422

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.58	ok	8.58	8.25-8.91	125653	ok	137339	82403-192275
1,4-Difluorobenzene	10.82	ok	10.81	10.48-11.14	474135	ok	525267	315160-735374
Chlorobenzene-D5	16.41	ok	16.41	16.08-16.74	313831	ok	289596	173758-405434

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	Reporting this level
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.64	9.34	0.711	ok	0.711	0.651-0.771
Acrolein	6.52	9.34	0.698	ok	0.699	0.639-0.759
Acrylonitrile	7.03	9.34	0.753	ok	0.754	0.694-0.814
Acetonitrile	6.41	9.34	0.686	ok	0.686	0.626-0.746
1,3-Butadiene	5.71	9.34	0.611	ok	0.612	0.552-0.672
Benzene	10.79	11.08	0.974	ok	0.974	0.914-1.034
Bromobenzene	17.23	15.36	1.122	ok	1.121	1.061-1.181
Bromodichloromethane	11.73	11.08	1.059	ok	1.059	0.999-1.119
Bromoform	16.10	15.36	1.048	ok	1.048	0.988-1.108
Bromomethane	5.96	9.34	0.638	ok	0.639	0.579-0.699
Bromoethene	6.43	9.34	0.688	ok	0.689	0.629-0.749
n-Butane	5.76	9.34	0.617	ok	0.617	0.557-0.677
Benzyl Chloride	18.50	15.36	1.204	ok	1.204	1.144-1.264
n-Butylbenzene	19.27	15.36	1.255	ok	1.254	1.194-1.314
sec-Butylbenzene	18.63	15.36	1.213	ok	1.212	1.152-1.272
tert-Butylbenzene	18.33	15.36	1.193	ok	1.193	1.133-1.253
Carbon disulfide	7.75	9.34	0.830	ok	0.830	0.770-0.890
Chlorobenzene	15.41	15.36	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	5.11	9.34	0.547	ok	0.548	0.488-0.608
Chloroethane	6.11	9.34	0.654	ok	0.655	0.595-0.715
Chloroform	9.44	9.34	1.011	ok	1.012	0.952-1.072
Chloromethane	5.38	9.34	0.576	ok	0.576	0.516-0.636
3-Chloropropene	7.54	9.34	0.807	ok	0.808	0.748-0.868
2-Chlorotoluene	17.63	15.36	1.148	ok	1.147	1.087-1.207
Carbon tetrachloride	10.92	9.34	1.169	ok	1.170	1.110-1.230
Cyclohexane	11.05	11.08	0.997	ok	0.997	0.937-1.057
1,1-Dichloroethane	8.44	9.34	0.904	ok	0.904	0.844-0.964
1,1-Dichloroethylene	7.34	9.34	0.786	ok	0.786	0.726-0.846
1,2-Dibromoethane	14.25	15.36	0.928	ok	0.927	0.867-0.987
1,2-Dichloroethane	10.12	9.34	1.084	ok	1.085	1.025-1.145
1,2-Dichloropropane	11.55	11.08	1.042	ok	1.042	0.982-1.102
1,4-Dioxane	11.77	11.08	1.062	ok	1.063	1.003-1.123
Dichlorodifluoromethane	5.22	9.34	0.559	ok	0.559	0.499-0.619
Dichlorofluoromethane	6.18	9.34	0.662	ok	0.662	0.602-0.722
Dibromochloromethane	14.00	15.36	0.911	ok	0.911	0.851-0.971
Dibromomethane	11.53	11.08	1.041	ok	1.041	0.981-1.101
trans-1,2-Dichloroethylene	8.25	9.34	0.883	ok	0.884	0.824-0.944
cis-1,2-Dichloroethylene	9.18	9.34	0.983	ok	0.984	0.924-1.044

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	Reporting this level
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,3-Dichloropropene	12.58	11.08	1.135	ok	1.135	1.075-1.195
m-Dichlorobenzene	18.52	15.36	1.206	ok	1.206	1.146-1.266
o-Dichlorobenzene	18.98	15.36	1.236	ok	1.235	1.175-1.295
p-Dichlorobenzene	18.59	15.36	1.210	ok	1.210	1.150-1.270
trans-1,3-Dichloropropene	13.08	11.08	1.181	ok	1.181	1.121-1.241
Di-Isopropyl ether	9.32	9.34	0.998	ok	0.999	0.939-1.059
2,3-Dimethylpentane	11.22	11.08	1.013	ok	1.013	0.953-1.073
2,4-Dimethylpentane	10.14	9.34	1.086	ok	1.086	1.026-1.146
Ethanol	6.19	9.34	0.663	ok	0.663	0.603-0.723
Ethylbenzene	15.79	15.36	1.028	ok	1.028	0.968-1.088
Ethyl Acetate	9.34	9.34	1.000	ok	1.002	0.942-1.062
4-Ethyltoluene	17.80	15.36	1.159	ok	1.159	1.099-1.219
Freon 113	7.65	9.34	0.819	ok	0.819	0.759-0.879
Freon 114	5.46	9.34	0.585	ok	0.585	0.525-0.645
Freon 152A	5.07	9.34	0.543	ok	0.543	0.483-0.603
Heptane	12.00	11.08	1.083	ok	1.083	1.023-1.143
Hexachlorobutadiene	21.37	15.36	1.391	ok	1.391	1.331-1.451
Hexachloroethane	19.72	15.36	1.284	ok	1.284	1.224-1.344
Hexane	9.34	9.34	1.000	ok	1.000	0.940-1.060
2-Hexanone	13.78	15.36	0.897	ok	0.897	0.837-0.957
Iodomethane	7.30	9.34	0.782	ok	0.781	0.721-0.841
Isopropylbenzene	17.10	15.36	1.113	ok	1.113	1.053-1.173
Isopropyl Alcohol	6.82	9.34	0.730	ok	0.731	0.671-0.791
p-Isopropyltoluene	18.80	15.36	1.224	ok	1.224	1.164-1.284
Methylene chloride	7.43	9.34	0.796	ok	0.796	0.736-0.856
Methyl ethyl ketone	8.78	9.34	0.940	ok	0.942	0.882-1.002
Methyl Isobutyl Ketone	12.60	11.08	1.137	ok	1.138	1.078-1.198
Methyl Tert Butyl Ether	8.48	9.34	0.908	ok	0.909	0.849-0.969
Methylmethacrylate	11.91	11.08	1.075	ok	1.075	1.015-1.135
Naphthalene	21.01	15.36	1.368	ok	1.367	1.307-1.427
Nonane	16.66	15.36	1.085	ok	1.084	1.024-1.144
Octane	14.49	15.36	0.943	ok	0.943	0.883-1.003
Pentane	7.07	9.34	0.757	ok	0.758	0.698-0.818
n-Propylbenzene	17.65	15.36	1.149	ok	1.149	1.089-1.209
Propylene	5.15	9.34	0.551	ok	0.552	0.492-0.612
Styrene	16.37	15.36	1.066	ok	1.065	1.005-1.125
1,1,1-Trichloroethane	10.36	9.34	1.109	ok	1.110	1.050-1.170
1,1,1,2-Tetrachloroethane	15.39	15.36	1.002	ok	1.002	0.942-1.062

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	Reporting this level
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2,2-Tetrachloroethane	16.48	15.36	1.073	ok	1.073	1.013-1.133
1,1,2-Trichloroethane	13.27	11.08	1.198	ok	1.198	1.138-1.258
1,2,4-Trichlorobenzene	21.29	15.36	1.386	ok	1.386	1.326-1.446
1,2,3-Trichloropropane	16.62	15.36	1.082	ok	1.082	1.022-1.142
1,2,4-Trimethylbenzene	18.33	15.36	1.193	ok	1.194	1.134-1.254
1,3,5-Trimethylbenzene	17.88	15.36	1.164	ok	1.164	1.104-1.224
2,2,4-Trimethylpentane	11.77	11.08	1.062	ok	1.062	1.002-1.122
Tertiary Butyl Alcohol	7.35	9.34	0.787	ok	0.789	0.729-0.849
Tetrachloroethylene	14.70	15.36	0.957	ok	0.957	0.897-1.017
Tetrahydrofuran	9.84	9.34	1.054	ok	1.055	0.995-1.115
Toluene	13.55	11.08	1.223	ok	1.223	1.163-1.283
Trichloroethylene	11.77	11.08	1.062	ok	1.062	1.002-1.122
Trichlorofluoromethane	6.78	9.34	0.726	ok	0.727	0.667-0.787
Vinyl chloride	5.58	9.34	0.597	ok	0.598	0.538-0.658
Vinyl Acetate	8.53	9.34	0.913	ok	0.914	0.854-0.974
m,p-Xylene	15.98	15.36	1.040	ok	1.040	0.980-1.100
o-Xylene	16.48	15.36	1.073	ok	1.073	1.013-1.133

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	9.34	ok	9.33	9.00-9.66	109176	ok	109288	65573-153003
1,4-Difluorobenzene	11.08	ok	11.08	10.75-11.41	473536	ok	477226	286336-668116
Chlorobenzene-D5	15.36	ok	15.37	15.04-15.70	215001	ok	221374	132824-309924

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	Reporting this level
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.63	9.33	0.711	ok	0.711	0.651-0.771
Acrolein	6.52	9.33	0.699	ok	0.699	0.639-0.759
Acrylonitrile	7.03	9.33	0.753	ok	0.754	0.694-0.814
Acetonitrile	6.40	9.33	0.686	ok	0.686	0.626-0.746
1,3-Butadiene	5.71	9.33	0.612	ok	0.612	0.552-0.672
Benzene	10.79	11.08	0.974	ok	0.974	0.914-1.034
Bromobenzene	17.23	15.36	1.122	ok	1.121	1.061-1.181
Bromodichloromethane	11.73	11.08	1.059	ok	1.059	0.999-1.119
Bromoform	16.10	15.36	1.048	ok	1.048	0.988-1.108
Bromomethane	5.96	9.33	0.639	ok	0.639	0.579-0.699
Bromoethene	6.43	9.33	0.689	ok	0.689	0.629-0.749
n-Butane	5.76	9.33	0.617	ok	0.617	0.557-0.677
Benzyl Chloride	18.50	15.36	1.204	ok	1.204	1.144-1.264
n-Butylbenzene	19.27	15.36	1.255	ok	1.254	1.194-1.314
sec-Butylbenzene	18.63	15.36	1.213	ok	1.212	1.152-1.272
tert-Butylbenzene	18.33	15.36	1.193	ok	1.193	1.133-1.253
Carbon disulfide	7.75	9.33	0.831	ok	0.830	0.770-0.890
Chlorobenzene	15.41	15.36	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	5.11	9.33	0.548	ok	0.548	0.488-0.608
Chloroethane	6.11	9.33	0.655	ok	0.655	0.595-0.715
Chloroform	9.44	9.33	1.012	ok	1.012	0.952-1.072
Chloromethane	5.37	9.33	0.576	ok	0.576	0.516-0.636
3-Chloropropene	7.54	9.33	0.808	ok	0.808	0.748-0.868
2-Chlorotoluene	17.62	15.36	1.147	ok	1.147	1.087-1.207
Carbon tetrachloride	10.92	9.33	1.170	ok	1.170	1.110-1.230
Cyclohexane	11.05	11.08	0.997	ok	0.997	0.937-1.057
1,1-Dichloroethane	8.44	9.33	0.905	ok	0.904	0.844-0.964
1,1-Dichloroethylene	7.34	9.33	0.787	ok	0.786	0.726-0.846
1,2-Dibromoethane	14.25	15.36	0.928	ok	0.927	0.867-0.987
1,2-Dichloroethane	10.13	9.33	1.086	ok	1.085	1.025-1.145
1,2-Dichloropropane	11.55	11.08	1.042	ok	1.042	0.982-1.102
1,4-Dioxane	11.78	11.08	1.063	ok	1.063	1.003-1.123
Dichlorodifluoromethane	5.22	9.33	0.559	ok	0.559	0.499-0.619
Dichlorofluoromethane	6.18	9.33	0.662	ok	0.662	0.602-0.722
Dibromochloromethane	13.99	15.36	0.911	ok	0.911	0.851-0.971
Dibromomethane	11.53	11.08	1.041	ok	1.041	0.981-1.101
trans-1,2-Dichloroethylene	8.25	9.33	0.884	ok	0.884	0.824-0.944
cis-1,2-Dichloroethylene	9.18	9.33	0.984	ok	0.984	0.924-1.044

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	Reporting this level
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,3-Dichloropropene	12.58	11.08	1.135	ok	1.135	1.075-1.195
m-Dichlorobenzene	18.52	15.36	1.206	ok	1.206	1.146-1.266
o-Dichlorobenzene	18.98	15.36	1.236	ok	1.235	1.175-1.295
p-Dichlorobenzene	18.59	15.36	1.210	ok	1.210	1.150-1.270
trans-1,3-Dichloropropene	13.08	11.08	1.181	ok	1.181	1.121-1.241
Di-Isopropyl ether	9.32	9.33	0.999	ok	0.999	0.939-1.059
2,3-Dimethylpentane	11.22	11.08	1.013	ok	1.013	0.953-1.073
2,4-Dimethylpentane	10.14	9.33	1.087	ok	1.086	1.026-1.146
Ethanol	6.19	9.33	0.663	ok	0.663	0.603-0.723
Ethylbenzene	15.79	15.36	1.028	ok	1.028	0.968-1.088
Ethyl Acetate	9.34	9.33	1.001	ok	1.002	0.942-1.062
4-Ethyltoluene	17.80	15.36	1.159	ok	1.159	1.099-1.219
Freon 113	7.64	9.33	0.819	ok	0.819	0.759-0.879
Freon 114	5.46	9.33	0.585	ok	0.585	0.525-0.645
Freon 152A	5.07	9.33	0.543	ok	0.543	0.483-0.603
Heptane	12.00	11.08	1.083	ok	1.083	1.023-1.143
Hexachlorobutadiene	21.37	15.36	1.391	ok	1.391	1.331-1.451
Hexachloroethane	19.72	15.36	1.284	ok	1.284	1.224-1.344
Hexane	9.33	9.33	1.000	ok	1.000	0.940-1.060
2-Hexanone	13.78	15.36	0.897	ok	0.897	0.837-0.957
Iodomethane	7.29	9.33	0.781	ok	0.781	0.721-0.841
Isopropylbenzene	17.10	15.36	1.113	ok	1.113	1.053-1.173
Isopropyl Alcohol	6.82	9.33	0.731	ok	0.731	0.671-0.791
p-Isopropyltoluene	18.80	15.36	1.224	ok	1.224	1.164-1.284
Methylene chloride	7.44	9.33	0.797	ok	0.796	0.736-0.856
Methyl ethyl ketone	8.78	9.33	0.941	ok	0.942	0.882-1.002
Methyl Isobutyl Ketone	12.60	11.08	1.137	ok	1.138	1.078-1.198
Methyl Tert Butyl Ether	8.49	9.33	0.910	ok	0.909	0.849-0.969
Methylmethacrylate	11.91	11.08	1.075	ok	1.075	1.015-1.135
Naphthalene	21.01	15.36	1.368	ok	1.367	1.307-1.427
Nonane	16.66	15.36	1.085	ok	1.084	1.024-1.144
Octane	14.49	15.36	0.943	ok	0.943	0.883-1.003
Pentane	7.08	9.33	0.759	ok	0.758	0.698-0.818
n-Propylbenzene	17.65	15.36	1.149	ok	1.149	1.089-1.209
Propylene	5.15	9.33	0.552	ok	0.552	0.492-0.612
Styrene	16.37	15.36	1.066	ok	1.065	1.005-1.125
1,1,1-Trichloroethane	10.36	9.33	1.110	ok	1.110	1.050-1.170
1,1,1,2-Tetrachloroethane	15.39	15.36	1.002	ok	1.002	0.942-1.062

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	Reporting this level
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2,2-Tetrachloroethane	16.48	15.36	1.073	ok	1.073	1.013-1.133
1,1,2-Trichloroethane	13.27	11.08	1.198	ok	1.198	1.138-1.258
1,2,4-Trichlorobenzene	21.29	15.36	1.386	ok	1.386	1.326-1.446
1,2,3-Trichloropropane	16.62	15.36	1.082	ok	1.082	1.022-1.142
1,2,4-Trimethylbenzene	18.34	15.36	1.194	ok	1.194	1.134-1.254
1,3,5-Trimethylbenzene	17.88	15.36	1.164	ok	1.164	1.104-1.224
2,2,4-Trimethylpentane	11.77	11.08	1.062	ok	1.062	1.002-1.122
Tertiary Butyl Alcohol	7.35	9.33	0.788	ok	0.789	0.729-0.849
Tetrachloroethylene	14.70	15.36	0.957	ok	0.957	0.897-1.017
Tetrahydrofuran	9.85	9.33	1.056	ok	1.055	0.995-1.115
Toluene	13.55	11.08	1.223	ok	1.223	1.163-1.283
Trichloroethylene	11.77	11.08	1.062	ok	1.062	1.002-1.122
Trichlorofluoromethane	6.78	9.33	0.727	ok	0.727	0.667-0.787
Vinyl chloride	5.58	9.33	0.598	ok	0.598	0.538-0.658
Vinyl Acetate	8.53	9.33	0.914	ok	0.914	0.854-0.974
m,p-Xylene	15.98	15.36	1.040	ok	1.040	0.980-1.100
o-Xylene	16.48	15.36	1.073	ok	1.073	1.013-1.133

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	9.33	ok	9.33	9.00-9.66	108740	ok	109288	65573-153003
1,4-Difluorobenzene	11.08	ok	11.08	10.75-11.41	482742	ok	477226	286336-668116
Chlorobenzene-D5	15.36	ok	15.37	15.04-15.70	218267	ok	221374	132824-309924

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	Reporting this level
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.65	9.33	0.713	ok	0.711	0.651-0.771
Acrolein	6.53	9.33	0.700	ok	0.699	0.639-0.759
Acrylonitrile	7.04	9.33	0.755	ok	0.754	0.694-0.814
Acetonitrile	6.42	9.33	0.688	ok	0.686	0.626-0.746
1,3-Butadiene	5.71	9.33	0.612	ok	0.612	0.552-0.672
Benzene	10.78	11.08	0.973	ok	0.974	0.914-1.034
Bromobenzene	17.23	15.36	1.122	ok	1.121	1.061-1.181
Bromodichloromethane	11.73	11.08	1.059	ok	1.059	0.999-1.119
Bromoform	16.10	15.36	1.048	ok	1.048	0.988-1.108
Bromomethane	5.97	9.33	0.640	ok	0.639	0.579-0.699
Bromoethene	6.43	9.33	0.689	ok	0.689	0.629-0.749
n-Butane	5.76	9.33	0.617	ok	0.617	0.557-0.677
Benzyl Chloride	18.50	15.36	1.204	ok	1.204	1.144-1.264
n-Butylbenzene	19.27	15.36	1.255	ok	1.254	1.194-1.314
sec-Butylbenzene	18.63	15.36	1.213	ok	1.212	1.152-1.272
tert-Butylbenzene	18.33	15.36	1.193	ok	1.193	1.133-1.253
Carbon disulfide	7.75	9.33	0.831	ok	0.830	0.770-0.890
Chlorobenzene	15.41	15.36	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	5.12	9.33	0.549	ok	0.548	0.488-0.608
Chloroethane	6.11	9.33	0.655	ok	0.655	0.595-0.715
Chloroform	9.44	9.33	1.012	ok	1.012	0.952-1.072
Chloromethane	5.39	9.33	0.578	ok	0.576	0.516-0.636
3-Chloropropene	7.54	9.33	0.808	ok	0.808	0.748-0.868
2-Chlorotoluene	17.63	15.36	1.148	ok	1.147	1.087-1.207
Carbon tetrachloride	10.92	9.33	1.170	ok	1.170	1.110-1.230
Cyclohexane	11.05	11.08	0.997	ok	0.997	0.937-1.057
1,1-Dichloroethane	8.44	9.33	0.905	ok	0.904	0.844-0.964
1,1-Dichloroethylene	7.34	9.33	0.787	ok	0.786	0.726-0.846
1,2-Dibromoethane	14.25	15.36	0.928	ok	0.927	0.867-0.987
1,2-Dichloroethane	10.12	9.33	1.085	ok	1.085	1.025-1.145
1,2-Dichloropropane	11.55	11.08	1.042	ok	1.042	0.982-1.102
1,4-Dioxane	11.79	11.08	1.064	ok	1.063	1.003-1.123
Dichlorodifluoromethane	5.22	9.33	0.559	ok	0.559	0.499-0.619
Dichlorofluoromethane	6.18	9.33	0.662	ok	0.662	0.602-0.722
Dibromochloromethane	13.99	15.36	0.911	ok	0.911	0.851-0.971
Dibromomethane	11.53	11.08	1.041	ok	1.041	0.981-1.101
trans-1,2-Dichloroethylene	8.26	9.33	0.885	ok	0.884	0.824-0.944
cis-1,2-Dichloroethylene	9.18	9.33	0.984	ok	0.984	0.924-1.044

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	Reporting this level
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,3-Dichloropropene	12.58	11.08	1.135	ok	1.135	1.075-1.195
m-Dichlorobenzene	18.53	15.36	1.206	ok	1.206	1.146-1.266
o-Dichlorobenzene	18.98	15.36	1.236	ok	1.235	1.175-1.295
p-Dichlorobenzene	18.59	15.36	1.210	ok	1.210	1.150-1.270
trans-1,3-Dichloropropene	13.08	11.08	1.181	ok	1.181	1.121-1.241
Di-Isopropyl ether	9.33	9.33	1.000	ok	0.999	0.939-1.059
2,3-Dimethylpentane	11.22	11.08	1.013	ok	1.013	0.953-1.073
2,4-Dimethylpentane	10.14	9.33	1.087	ok	1.086	1.026-1.146
Ethanol	6.19	9.33	0.663	ok	0.663	0.603-0.723
Ethylbenzene	15.79	15.36	1.028	ok	1.028	0.968-1.088
Ethyl Acetate	9.36	9.33	1.003	ok	1.002	0.942-1.062
4-Ethyltoluene	17.80	15.36	1.159	ok	1.159	1.099-1.219
Freon 113	7.65	9.33	0.820	ok	0.819	0.759-0.879
Freon 114	5.46	9.33	0.585	ok	0.585	0.525-0.645
Freon 152A	5.07	9.33	0.543	ok	0.543	0.483-0.603
Heptane	12.00	11.08	1.083	ok	1.083	1.023-1.143
Hexachlorobutadiene	21.37	15.36	1.391	ok	1.391	1.331-1.451
Hexachloroethane	19.73	15.36	1.285	ok	1.284	1.224-1.344
Hexane	9.33	9.33	1.000	ok	1.000	0.940-1.060
2-Hexanone	13.80	15.36	0.898	ok	0.897	0.837-0.957
Iodomethane	7.29	9.33	0.781	ok	0.781	0.721-0.841
Isopropylbenzene	17.10	15.36	1.113	ok	1.113	1.053-1.173
Isopropyl Alcohol	6.83	9.33	0.732	ok	0.731	0.671-0.791
p-Isopropyltoluene	18.80	15.36	1.224	ok	1.224	1.164-1.284
Methylene chloride	7.43	9.33	0.796	ok	0.796	0.736-0.856
Methyl ethyl ketone	8.79	9.33	0.942	ok	0.942	0.882-1.002
Methyl Isobutyl Ketone	12.61	11.08	1.138	ok	1.138	1.078-1.198
Methyl Tert Butyl Ether	8.49	9.33	0.910	ok	0.909	0.849-0.969
Methylmethacrylate	11.91	11.08	1.075	ok	1.075	1.015-1.135
Naphthalene	21.01	15.36	1.368	ok	1.367	1.307-1.427
Nonane	16.66	15.36	1.085	ok	1.084	1.024-1.144
Octane	14.49	15.36	0.943	ok	0.943	0.883-1.003
Pentane	7.07	9.33	0.758	ok	0.758	0.698-0.818
n-Propylbenzene	17.65	15.36	1.149	ok	1.149	1.089-1.209
Propylene	5.15	9.33	0.552	ok	0.552	0.492-0.612
Styrene	16.37	15.36	1.066	ok	1.065	1.005-1.125
1,1,1-Trichloroethane	10.36	9.33	1.110	ok	1.110	1.050-1.170
1,1,1,2-Tetrachloroethane	15.39	15.36	1.002	ok	1.002	0.942-1.062

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	Reporting this level
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2,2-Tetrachloroethane	16.48	15.36	1.073	ok	1.073	1.013-1.133
1,1,2-Trichloroethane	13.27	11.08	1.198	ok	1.198	1.138-1.258
1,2,4-Trichlorobenzene	21.29	15.36	1.386	ok	1.386	1.326-1.446
1,2,3-Trichloropropane	16.63	15.36	1.083	ok	1.082	1.022-1.142
1,2,4-Trimethylbenzene	18.34	15.36	1.194	ok	1.194	1.134-1.254
1,3,5-Trimethylbenzene	17.88	15.36	1.164	ok	1.164	1.104-1.224
2,2,4-Trimethylpentane	11.77	11.08	1.062	ok	1.062	1.002-1.122
Tertiary Butyl Alcohol	7.36	9.33	0.789	ok	0.789	0.729-0.849
Tetrachloroethylene	14.70	15.36	0.957	ok	0.957	0.897-1.017
Tetrahydrofuran	9.86	9.33	1.057	ok	1.055	0.995-1.115
Toluene	13.55	11.08	1.223	ok	1.223	1.163-1.283
Trichloroethylene	11.77	11.08	1.062	ok	1.062	1.002-1.122
Trichlorofluoromethane	6.79	9.33	0.728	ok	0.727	0.667-0.787
Vinyl chloride	5.58	9.33	0.598	ok	0.598	0.538-0.658
Vinyl Acetate	8.54	9.33	0.915	ok	0.914	0.854-0.974
m,p-Xylene	15.98	15.36	1.040	ok	1.040	0.980-1.100
o-Xylene	16.49	15.36	1.074	ok	1.073	1.013-1.133

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	9.33	ok	9.33	9.00-9.66	106117	ok	109288	65573-153003
1,4-Difluorobenzene	11.08	ok	11.08	10.75-11.41	478232	ok	477226	286336-668116
Chlorobenzene-D5	15.36	ok	15.37	15.04-15.70	205227	ok	221374	132824-309924

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	Reporting this level
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.65	9.33	0.713	ok	0.711	0.651-0.771
Acrolein	6.52	9.33	0.699	ok	0.699	0.639-0.759
Acrylonitrile	7.05	9.33	0.756	ok	0.754	0.694-0.814
Acetonitrile	6.42	9.33	0.688	ok	0.686	0.626-0.746
1,3-Butadiene	5.72	9.33	0.613	ok	0.612	0.552-0.672
Benzene	10.79	11.08	0.974	ok	0.974	0.914-1.034
Bromobenzene	17.22	15.36	1.121	ok	1.121	1.061-1.181
Bromodichloromethane	11.73	11.08	1.059	ok	1.059	0.999-1.119
Bromoform	16.10	15.36	1.048	ok	1.048	0.988-1.108
Bromomethane	5.97	9.33	0.640	ok	0.639	0.579-0.699
Bromoethene	6.43	9.33	0.689	ok	0.689	0.629-0.749
n-Butane	5.77	9.33	0.618	ok	0.617	0.557-0.677
Benzyl Chloride	18.50	15.36	1.204	ok	1.204	1.144-1.264
n-Butylbenzene	19.27	15.36	1.255	ok	1.254	1.194-1.314
sec-Butylbenzene	18.63	15.36	1.213	ok	1.212	1.152-1.272
tert-Butylbenzene	18.33	15.36	1.193	ok	1.193	1.133-1.253
Carbon disulfide	7.75	9.33	0.831	ok	0.830	0.770-0.890
Chlorobenzene	15.41	15.36	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	5.11	9.33	0.548	ok	0.548	0.488-0.608
Chloroethane	6.11	9.33	0.655	ok	0.655	0.595-0.715
Chloroform	9.44	9.33	1.012	ok	1.012	0.952-1.072
Chloromethane	5.37	9.33	0.576	ok	0.576	0.516-0.636
3-Chloropropene	7.55	9.33	0.809	ok	0.808	0.748-0.868
2-Chlorotoluene	17.62	15.36	1.147	ok	1.147	1.087-1.207
Carbon tetrachloride	10.93	9.33	1.171	ok	1.170	1.110-1.230
Cyclohexane	11.05	11.08	0.997	ok	0.997	0.937-1.057
1,1-Dichloroethane	8.44	9.33	0.905	ok	0.904	0.844-0.964
1,1-Dichloroethylene	7.34	9.33	0.787	ok	0.786	0.726-0.846
1,2-Dibromoethane	14.25	15.36	0.928	ok	0.927	0.867-0.987
1,2-Dichloroethane	10.13	9.33	1.086	ok	1.085	1.025-1.145
1,2-Dichloropropane	11.55	11.08	1.042	ok	1.042	0.982-1.102
1,4-Dioxane	11.80	11.08	1.065	ok	1.063	1.003-1.123
Dichlorodifluoromethane	5.22	9.33	0.559	ok	0.559	0.499-0.619
Dichlorofluoromethane	6.18	9.33	0.662	ok	0.662	0.602-0.722
Dibromochloromethane	13.99	15.36	0.911	ok	0.911	0.851-0.971
Dibromomethane	11.53	11.08	1.041	ok	1.041	0.981-1.101
trans-1,2-Dichloroethylene	8.25	9.33	0.884	ok	0.884	0.824-0.944
cis-1,2-Dichloroethylene	9.18	9.33	0.984	ok	0.984	0.924-1.044

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	Reporting this level
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,3-Dichloropropene	12.58	11.08	1.135	ok	1.135	1.075-1.195
m-Dichlorobenzene	18.53	15.36	1.206	ok	1.206	1.146-1.266
o-Dichlorobenzene	18.98	15.36	1.236	ok	1.235	1.175-1.295
p-Dichlorobenzene	18.59	15.36	1.210	ok	1.210	1.150-1.270
trans-1,3-Dichloropropene	13.08	11.08	1.181	ok	1.181	1.121-1.241
Di-Isopropyl ether	9.33	9.33	1.000	ok	0.999	0.939-1.059
2,3-Dimethylpentane	11.22	11.08	1.013	ok	1.013	0.953-1.073
2,4-Dimethylpentane	10.14	9.33	1.087	ok	1.086	1.026-1.146
Ethylbenzene	15.79	15.36	1.028	ok	1.028	0.968-1.088
Ethyl Acetate	9.35	9.33	1.002	ok	1.002	0.942-1.062
4-Ethyltoluene	17.80	15.36	1.159	ok	1.159	1.099-1.219
Freon 113	7.64	9.33	0.819	ok	0.819	0.759-0.879
Freon 114	5.46	9.33	0.585	ok	0.585	0.525-0.645
Freon 152A	5.07	9.33	0.543	ok	0.543	0.483-0.603
Heptane	12.00	11.08	1.083	ok	1.083	1.023-1.143
Hexachlorobutadiene	21.38	15.36	1.392	ok	1.391	1.331-1.451
Hexachloroethane	19.73	15.36	1.285	ok	1.284	1.224-1.344
Hexane	9.33	9.33	1.000	ok	1.000	0.940-1.060
2-Hexanone	13.80	15.36	0.898	ok	0.897	0.837-0.957
Iodomethane	7.30	9.33	0.782	ok	0.781	0.721-0.841
Isopropylbenzene	17.09	15.36	1.113	ok	1.113	1.053-1.173
Isopropyl Alcohol	6.84	9.33	0.733	ok	0.731	0.671-0.791
p-Isopropyltoluene	18.80	15.36	1.224	ok	1.224	1.164-1.284
Methylene chloride	7.44	9.33	0.797	ok	0.796	0.736-0.856
Methyl ethyl ketone	8.80	9.33	0.943	ok	0.942	0.882-1.002
Methyl Isobutyl Ketone	12.62	11.08	1.139	ok	1.138	1.078-1.198
Methyl Tert Butyl Ether	8.50	9.33	0.911	ok	0.909	0.849-0.969
Methylmethacrylate	11.92	11.08	1.076	ok	1.075	1.015-1.135
Naphthalene	21.01	15.36	1.368	ok	1.367	1.307-1.427
Nonane	16.66	15.36	1.085	ok	1.084	1.024-1.144
Octane	14.49	15.36	0.943	ok	0.943	0.883-1.003
Pentane	7.08	9.33	0.759	ok	0.758	0.698-0.818
n-Propylbenzene	17.65	15.36	1.149	ok	1.149	1.089-1.209
Propylene	5.15	9.33	0.552	ok	0.552	0.492-0.612
Styrene	16.37	15.36	1.066	ok	1.065	1.005-1.125
1,1,1-Trichloroethane	10.36	9.33	1.110	ok	1.110	1.050-1.170
1,1,1,2-Tetrachloroethane	15.39	15.36	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	16.48	15.36	1.073	ok	1.073	1.013-1.133

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	Reporting this level
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2-Trichloroethane	13.27	11.08	1.198	ok	1.198	1.138-1.258
1,2,4-Trichlorobenzene	21.29	15.36	1.386	ok	1.386	1.326-1.446
1,2,3-Trichloropropane	16.62	15.36	1.082	ok	1.082	1.022-1.142
1,2,4-Trimethylbenzene	18.34	15.36	1.194	ok	1.194	1.134-1.254
1,3,5-Trimethylbenzene	17.88	15.36	1.164	ok	1.164	1.104-1.224
2,2,4-Trimethylpentane	11.77	11.08	1.062	ok	1.062	1.002-1.122
Tertiary Butyl Alcohol	7.37	9.33	0.790	ok	0.789	0.729-0.849
Tetrachloroethylene	14.70	15.36	0.957	ok	0.957	0.897-1.017
Tetrahydrofuran	9.87	9.33	1.058	ok	1.055	0.995-1.115
Toluene	13.55	11.08	1.223	ok	1.223	1.163-1.283
Trichloroethylene	11.76	11.08	1.061	ok	1.062	1.002-1.122
Trichlorofluoromethane	6.78	9.33	0.727	ok	0.727	0.667-0.787
Vinyl chloride	5.58	9.33	0.598	ok	0.598	0.538-0.658
Vinyl Acetate	8.53	9.33	0.914	ok	0.914	0.854-0.974
m,p-Xylene	15.98	15.36	1.040	ok	1.040	0.980-1.100
o-Xylene	16.48	15.36	1.073	ok	1.073	1.013-1.133

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	9.33	ok	9.33	9.00-9.66	104341	ok	109288	65573-153003
1,4-Difluorobenzene	11.08	ok	11.08	10.75-11.41	459618	ok	477226	286336-668116
Chlorobenzene-D5	15.36	ok	15.37	15.04-15.70	198861	ok	221374	132824-309924

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	Reporting this level
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.63	9.33	0.711	ok	0.711	0.651-0.771
Acrolein	6.52	9.33	0.699	ok	0.699	0.639-0.759
Acrylonitrile	7.03	9.33	0.753	ok	0.754	0.694-0.814
Acetonitrile	6.40	9.33	0.686	ok	0.686	0.626-0.746
1,3-Butadiene	5.71	9.33	0.612	ok	0.612	0.552-0.672
Benzene	10.79	11.08	0.974	ok	0.974	0.914-1.034
Bromobenzene	17.23	15.37	1.121	ok	1.121	1.061-1.181
Bromodichloromethane	11.74	11.08	1.060	ok	1.059	0.999-1.119
Bromoform	16.11	15.37	1.048	ok	1.048	0.988-1.108
Bromomethane	5.96	9.33	0.639	ok	0.639	0.579-0.699
Bromoethene	6.43	9.33	0.689	ok	0.689	0.629-0.749
n-Butane	5.75	9.33	0.616	ok	0.617	0.557-0.677
Benzyl Chloride	18.50	15.37	1.204	ok	1.204	1.144-1.264
n-Butylbenzene	19.27	15.37	1.254	ok	1.254	1.194-1.314
sec-Butylbenzene	18.63	15.37	1.212	ok	1.212	1.152-1.272
tert-Butylbenzene	18.33	15.37	1.193	ok	1.193	1.133-1.253
Carbon disulfide	7.75	9.33	0.831	ok	0.830	0.770-0.890
Chlorobenzene	15.41	15.37	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	5.11	9.33	0.548	ok	0.548	0.488-0.608
Chloroethane	6.11	9.33	0.655	ok	0.655	0.595-0.715
Chloroform	9.44	9.33	1.012	ok	1.012	0.952-1.072
Chloromethane	5.37	9.33	0.576	ok	0.576	0.516-0.636
3-Chloropropene	7.54	9.33	0.808	ok	0.808	0.748-0.868
2-Chlorotoluene	17.63	15.37	1.147	ok	1.147	1.087-1.207
Carbon tetrachloride	10.92	9.33	1.170	ok	1.170	1.110-1.230
Cyclohexane	11.05	11.08	0.997	ok	0.997	0.937-1.057
1,1-Dichloroethane	8.44	9.33	0.905	ok	0.904	0.844-0.964
1,1-Dichloroethylene	7.34	9.33	0.787	ok	0.786	0.726-0.846
1,2-Dibromoethane	14.25	15.37	0.927	ok	0.927	0.867-0.987
1,2-Dichloroethane	10.13	9.33	1.086	ok	1.085	1.025-1.145
1,2-Dichloropropane	11.55	11.08	1.042	ok	1.042	0.982-1.102
1,4-Dioxane	11.77	11.08	1.062	ok	1.063	1.003-1.123
Dichlorodifluoromethane	5.22	9.33	0.559	ok	0.559	0.499-0.619
Dichlorofluoromethane	6.18	9.33	0.662	ok	0.662	0.602-0.722
Dibromochloromethane	14.00	15.37	0.911	ok	0.911	0.851-0.971
Dibromomethane	11.53	11.08	1.041	ok	1.041	0.981-1.101
trans-1,2-Dichloroethylene	8.25	9.33	0.884	ok	0.884	0.824-0.944
cis-1,2-Dichloroethylene	9.18	9.33	0.984	ok	0.984	0.924-1.044

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	Reporting this level
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,3-Dichloropropene	12.58	11.08	1.135	ok	1.135	1.075-1.195
m-Dichlorobenzene	18.52	15.37	1.205	ok	1.206	1.146-1.266
o-Dichlorobenzene	18.98	15.37	1.235	ok	1.235	1.175-1.295
p-Dichlorobenzene	18.59	15.37	1.209	ok	1.210	1.150-1.270
trans-1,3-Dichloropropene	13.08	11.08	1.181	ok	1.181	1.121-1.241
Di-Isopropyl ether	9.32	9.33	0.999	ok	0.999	0.939-1.059
2,3-Dimethylpentane	11.22	11.08	1.013	ok	1.013	0.953-1.073
2,4-Dimethylpentane	10.14	9.33	1.087	ok	1.086	1.026-1.146
Ethanol	6.19	9.33	0.663	ok	0.663	0.603-0.723
Ethylbenzene	15.79	15.37	1.027	ok	1.028	0.968-1.088
Ethyl Acetate	9.34	9.33	1.001	ok	1.002	0.942-1.062
4-Ethyltoluene	17.80	15.37	1.158	ok	1.159	1.099-1.219
Freon 113	7.64	9.33	0.819	ok	0.819	0.759-0.879
Freon 114	5.46	9.33	0.585	ok	0.585	0.525-0.645
Freon 152A	5.07	9.33	0.543	ok	0.543	0.483-0.603
Heptane	12.00	11.08	1.083	ok	1.083	1.023-1.143
Hexachlorobutadiene	21.37	15.37	1.390	ok	1.391	1.331-1.451
Hexachloroethane	19.72	15.37	1.283	ok	1.284	1.224-1.344
Hexane	9.33	9.33	1.000	ok	1.000	0.940-1.060
2-Hexanone	13.78	15.37	0.897	ok	0.897	0.837-0.957
Iodomethane	7.29	9.33	0.781	ok	0.781	0.721-0.841
Isopropylbenzene	17.10	15.37	1.113	ok	1.113	1.053-1.173
Isopropyl Alcohol	6.82	9.33	0.731	ok	0.731	0.671-0.791
p-Isopropyltoluene	18.80	15.37	1.223	ok	1.224	1.164-1.284
Methylene chloride	7.43	9.33	0.796	ok	0.796	0.736-0.856
Methyl ethyl ketone	8.79	9.33	0.942	ok	0.942	0.882-1.002
Methyl Isobutyl Ketone	12.60	11.08	1.137	ok	1.138	1.078-1.198
Methyl Tert Butyl Ether	8.48	9.33	0.909	ok	0.909	0.849-0.969
Methylmethacrylate	11.91	11.08	1.075	ok	1.075	1.015-1.135
Naphthalene	21.01	15.37	1.367	ok	1.367	1.307-1.427
Nonane	16.66	15.37	1.084	ok	1.084	1.024-1.144
Octane	14.49	15.37	0.943	ok	0.943	0.883-1.003
Pentane	7.08	9.33	0.759	ok	0.758	0.698-0.818
n-Propylbenzene	17.65	15.37	1.148	ok	1.149	1.089-1.209
Propylene	5.15	9.33	0.552	ok	0.552	0.492-0.612
Styrene	16.37	15.37	1.065	ok	1.065	1.005-1.125
1,1,1-Trichloroethane	10.36	9.33	1.110	ok	1.110	1.050-1.170
1,1,1,2-Tetrachloroethane	15.39	15.37	1.001	ok	1.002	0.942-1.062

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	Reporting this level
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2,2-Tetrachloroethane	16.48	15.37	1.072	ok	1.073	1.013-1.133
1,1,2-Trichloroethane	13.27	11.08	1.198	ok	1.198	1.138-1.258
1,2,4-Trichlorobenzene	21.29	15.37	1.385	ok	1.386	1.326-1.446
1,2,3-Trichloropropane	16.62	15.37	1.081	ok	1.082	1.022-1.142
1,2,4-Trimethylbenzene	18.34	15.37	1.193	ok	1.194	1.134-1.254
1,3,5-Trimethylbenzene	17.88	15.37	1.163	ok	1.164	1.104-1.224
2,2,4-Trimethylpentane	11.77	11.08	1.062	ok	1.062	1.002-1.122
Tertiary Butyl Alcohol	7.36	9.33	0.789	ok	0.789	0.729-0.849
Tetrachloroethylene	14.70	15.37	0.956	ok	0.957	0.897-1.017
Tetrahydrofuran	9.84	9.33	1.055	ok	1.055	0.995-1.115
Toluene	13.55	11.08	1.223	ok	1.223	1.163-1.283
Trichloroethylene	11.77	11.08	1.062	ok	1.062	1.002-1.122
Trichlorofluoromethane	6.78	9.33	0.727	ok	0.727	0.667-0.787
Vinyl chloride	5.58	9.33	0.598	ok	0.598	0.538-0.658
Vinyl Acetate	8.53	9.33	0.914	ok	0.914	0.854-0.974
m,p-Xylene	15.98	15.37	1.040	ok	1.040	0.980-1.100
o-Xylene	16.49	15.37	1.073	ok	1.073	1.013-1.133

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	9.33	ok	9.33	9.00-9.66	112037	ok	109288	65573-153003
1,4-Difluorobenzene	11.08	ok	11.08	10.75-11.41	488569	ok	477226	286336-668116
Chlorobenzene-D5	15.37	ok	15.37	15.04-15.70	239711	ok	221374	132824-309924

Initial Calibration Retention Time/Internal Standard Area Summary

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Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	Reporting this level
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.64	9.33	0.712	ok	0.711	0.651-0.771
Acrolein	6.52	9.33	0.699	ok	0.699	0.639-0.759
Acrylonitrile	7.03	9.33	0.753	ok	0.754	0.694-0.814
Acetonitrile	6.40	9.33	0.686	ok	0.686	0.626-0.746
1,3-Butadiene	5.71	9.33	0.612	ok	0.612	0.552-0.672
Benzene	10.79	11.08	0.974	ok	0.974	0.914-1.034
Bromobenzene	17.23	15.37	1.121	ok	1.121	1.061-1.181
Bromodichloromethane	11.74	11.08	1.060	ok	1.059	0.999-1.119
Bromoform	16.10	15.37	1.047	ok	1.048	0.988-1.108
Bromomethane	5.96	9.33	0.639	ok	0.639	0.579-0.699
Bromoethene	6.43	9.33	0.689	ok	0.689	0.629-0.749
n-Butane	5.76	9.33	0.617	ok	0.617	0.557-0.677
Benzyl Chloride	18.50	15.37	1.204	ok	1.204	1.144-1.264
n-Butylbenzene	19.27	15.37	1.254	ok	1.254	1.194-1.314
sec-Butylbenzene	18.63	15.37	1.212	ok	1.212	1.152-1.272
tert-Butylbenzene	18.33	15.37	1.193	ok	1.193	1.133-1.253
Carbon disulfide	7.75	9.33	0.831	ok	0.830	0.770-0.890
Chlorobenzene	15.41	15.37	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	5.11	9.33	0.548	ok	0.548	0.488-0.608
Chloroethane	6.11	9.33	0.655	ok	0.655	0.595-0.715
Chloroform	9.44	9.33	1.012	ok	1.012	0.952-1.072
Chloromethane	5.38	9.33	0.577	ok	0.576	0.516-0.636
3-Chloropropene	7.54	9.33	0.808	ok	0.808	0.748-0.868
2-Chlorotoluene	17.63	15.37	1.147	ok	1.147	1.087-1.207
Carbon tetrachloride	10.92	9.33	1.170	ok	1.170	1.110-1.230
Cyclohexane	11.05	11.08	0.997	ok	0.997	0.937-1.057
1,1-Dichloroethane	8.44	9.33	0.905	ok	0.904	0.844-0.964
1,1-Dichloroethylene	7.34	9.33	0.787	ok	0.786	0.726-0.846
1,2-Dibromoethane	14.25	15.37	0.927	ok	0.927	0.867-0.987
1,2-Dichloroethane	10.13	9.33	1.086	ok	1.085	1.025-1.145
1,2-Dichloropropane	11.55	11.08	1.042	ok	1.042	0.982-1.102
1,4-Dioxane	11.77	11.08	1.062	ok	1.063	1.003-1.123
Dichlorodifluoromethane	5.22	9.33	0.559	ok	0.559	0.499-0.619
Dichlorofluoromethane	6.18	9.33	0.662	ok	0.662	0.602-0.722
Dibromochloromethane	14.00	15.37	0.911	ok	0.911	0.851-0.971
Dibromomethane	11.53	11.08	1.041	ok	1.041	0.981-1.101
trans-1,2-Dichloroethylene	8.25	9.33	0.884	ok	0.884	0.824-0.944
cis-1,2-Dichloroethylene	9.18	9.33	0.984	ok	0.984	0.924-1.044

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	Reporting this level
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,3-Dichloropropene	12.58	11.08	1.135	ok	1.135	1.075-1.195
m-Dichlorobenzene	18.52	15.37	1.205	ok	1.206	1.146-1.266
o-Dichlorobenzene	18.98	15.37	1.235	ok	1.235	1.175-1.295
p-Dichlorobenzene	18.59	15.37	1.209	ok	1.210	1.150-1.270
trans-1,3-Dichloropropene	13.08	11.08	1.181	ok	1.181	1.121-1.241
Di-Isopropyl ether	9.32	9.33	0.999	ok	0.999	0.939-1.059
2,3-Dimethylpentane	11.22	11.08	1.013	ok	1.013	0.953-1.073
2,4-Dimethylpentane	10.14	9.33	1.087	ok	1.086	1.026-1.146
Ethanol	6.19	9.33	0.663	ok	0.663	0.603-0.723
Ethylbenzene	15.79	15.37	1.027	ok	1.028	0.968-1.088
Ethyl Acetate	9.34	9.33	1.001	ok	1.002	0.942-1.062
4-Ethyltoluene	17.80	15.37	1.158	ok	1.159	1.099-1.219
Freon 113	7.64	9.33	0.819	ok	0.819	0.759-0.879
Freon 114	5.46	9.33	0.585	ok	0.585	0.525-0.645
Freon 152A	5.07	9.33	0.543	ok	0.543	0.483-0.603
Heptane	12.00	11.08	1.083	ok	1.083	1.023-1.143
Hexachlorobutadiene	21.37	15.37	1.390	ok	1.391	1.331-1.451
Hexachloroethane	19.72	15.37	1.283	ok	1.284	1.224-1.344
Hexane	9.33	9.33	1.000	ok	1.000	0.940-1.060
2-Hexanone	13.78	15.37	0.897	ok	0.897	0.837-0.957
Iodomethane	7.29	9.33	0.781	ok	0.781	0.721-0.841
Isopropylbenzene	17.10	15.37	1.113	ok	1.113	1.053-1.173
Isopropyl Alcohol	6.82	9.33	0.731	ok	0.731	0.671-0.791
p-Isopropyltoluene	18.80	15.37	1.223	ok	1.224	1.164-1.284
Methylene chloride	7.43	9.33	0.796	ok	0.796	0.736-0.856
Methyl ethyl ketone	8.79	9.33	0.942	ok	0.942	0.882-1.002
Methyl Isobutyl Ketone	12.60	11.08	1.137	ok	1.138	1.078-1.198
Methyl Tert Butyl Ether	8.48	9.33	0.909	ok	0.909	0.849-0.969
Methylmethacrylate	11.91	11.08	1.075	ok	1.075	1.015-1.135
Naphthalene	21.01	15.37	1.367	ok	1.367	1.307-1.427
Nonane	16.66	15.37	1.084	ok	1.084	1.024-1.144
Octane	14.49	15.37	0.943	ok	0.943	0.883-1.003
Pentane	7.07	9.33	0.758	ok	0.758	0.698-0.818
n-Propylbenzene	17.65	15.37	1.148	ok	1.149	1.089-1.209
Propylene	5.15	9.33	0.552	ok	0.552	0.492-0.612
Styrene	16.37	15.37	1.065	ok	1.065	1.005-1.125
1,1,1-Trichloroethane	10.36	9.33	1.110	ok	1.110	1.050-1.170
1,1,1,2-Tetrachloroethane	15.39	15.37	1.001	ok	1.002	0.942-1.062

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	Reporting this level
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2,2-Tetrachloroethane	16.48	15.37	1.072	ok	1.073	1.013-1.133
1,1,2-Trichloroethane	13.27	11.08	1.198	ok	1.198	1.138-1.258
1,2,4-Trichlorobenzene	21.29	15.37	1.385	ok	1.386	1.326-1.446
1,2,3-Trichloropropane	16.62	15.37	1.081	ok	1.082	1.022-1.142
1,2,4-Trimethylbenzene	18.34	15.37	1.193	ok	1.194	1.134-1.254
1,3,5-Trimethylbenzene	17.88	15.37	1.163	ok	1.164	1.104-1.224
2,2,4-Trimethylpentane	11.77	11.08	1.062	ok	1.062	1.002-1.122
Tertiary Butyl Alcohol	7.35	9.33	0.788	ok	0.789	0.729-0.849
Tetrachloroethylene	14.70	15.37	0.956	ok	0.957	0.897-1.017
Tetrahydrofuran	9.84	9.33	1.055	ok	1.055	0.995-1.115
Toluene	13.55	11.08	1.223	ok	1.223	1.163-1.283
Trichloroethylene	11.77	11.08	1.062	ok	1.062	1.002-1.122
Trichlorofluoromethane	6.78	9.33	0.727	ok	0.727	0.667-0.787
Vinyl chloride	5.58	9.33	0.598	ok	0.598	0.538-0.658
Vinyl Acetate	8.53	9.33	0.914	ok	0.914	0.854-0.974
m,p-Xylene	15.98	15.37	1.040	ok	1.040	0.980-1.100
o-Xylene	16.48	15.37	1.072	ok	1.073	1.013-1.133

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	9.33	ok	9.33	9.00-9.66	109149	ok	109288	65573-153003
1,4-Difluorobenzene	11.08	ok	11.08	10.75-11.41	480136	ok	477226	286336-668116
Chlorobenzene-D5	15.37	ok	15.37	15.04-15.70	231943	ok	221374	132824-309924

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	Reporting this level
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,3-Butadiene	5.71	9.33	0.612	ok	0.612	0.552-0.672
Benzene	10.78	11.08	0.973	ok	0.974	0.914-1.034
Bromobenzene	17.22	15.36	1.121	ok	1.121	1.061-1.181
Bromodichloromethane	11.73	11.08	1.059	ok	1.059	0.999-1.119
Bromoform	16.10	15.36	1.048	ok	1.048	0.988-1.108
Bromomethane	5.97	9.33	0.640	ok	0.639	0.579-0.699
Bromoethene	6.43	9.33	0.689	ok	0.689	0.629-0.749
Benzyl Chloride	18.50	15.36	1.204	ok	1.204	1.144-1.264
n-Butylbenzene	19.27	15.36	1.255	ok	1.254	1.194-1.314
sec-Butylbenzene	18.63	15.36	1.213	ok	1.212	1.152-1.272
tert-Butylbenzene	18.34	15.36	1.194	ok	1.193	1.133-1.253
Carbon disulfide	7.75	9.33	0.831	ok	0.830	0.770-0.890
Chlorobenzene	15.41	15.36	1.003	ok	1.003	0.943-1.063
Chloroethane	6.11	9.33	0.655	ok	0.655	0.595-0.715
Chloroform	9.44	9.33	1.012	ok	1.012	0.952-1.072
3-Chloropropene	7.54	9.33	0.808	ok	0.808	0.748-0.868
2-Chlorotoluene	17.63	15.36	1.148	ok	1.147	1.087-1.207
Carbon tetrachloride	10.92	9.33	1.170	ok	1.170	1.110-1.230
Cyclohexane	11.05	11.08	0.997	ok	0.997	0.937-1.057
1,1-Dichloroethane	8.44	9.33	0.905	ok	0.904	0.844-0.964
1,1-Dichloroethylene	7.33	9.33	0.786	ok	0.786	0.726-0.846
1,2-Dibromoethane	14.25	15.36	0.928	ok	0.927	0.867-0.987
1,2-Dichloroethane	10.12	9.33	1.085	ok	1.085	1.025-1.145
1,2-Dichloropropane	11.55	11.08	1.042	ok	1.042	0.982-1.102
Dichlorodifluoromethane	5.22	9.33	0.559	ok	0.559	0.499-0.619
Dichlorofluoromethane	6.18	9.33	0.662	ok	0.662	0.602-0.722
Dibromochloromethane	13.99	15.36	0.911	ok	0.911	0.851-0.971
Dibromomethane	11.53	11.08	1.041	ok	1.041	0.981-1.101
trans-1,2-Dichloroethylene	8.26	9.33	0.885	ok	0.884	0.824-0.944
cis-1,2-Dichloroethylene	9.18	9.33	0.984	ok	0.984	0.924-1.044
cis-1,3-Dichloropropene	12.58	11.08	1.135	ok	1.135	1.075-1.195
m-Dichlorobenzene	18.52	15.36	1.206	ok	1.206	1.146-1.266
o-Dichlorobenzene	18.98	15.36	1.236	ok	1.235	1.175-1.295
p-Dichlorobenzene	18.59	15.36	1.210	ok	1.210	1.150-1.270
trans-1,3-Dichloropropene	13.09	11.08	1.181	ok	1.181	1.121-1.241
Di-Isopropyl ether	9.33	9.33	1.000	ok	0.999	0.939-1.059
2,3-Dimethylpentane	11.22	11.08	1.013	ok	1.013	0.953-1.073
2,4-Dimethylpentane	10.13	9.33	1.086	ok	1.086	1.026-1.146

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	Reporting this level
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Ethylbenzene	15.79	15.36	1.028	ok	1.028	0.968-1.088
Ethyl Acetate	9.36	9.33	1.003	ok	1.002	0.942-1.062
4-Ethyltoluene	17.80	15.36	1.159	ok	1.159	1.099-1.219
Freon 113	7.65	9.33	0.820	ok	0.819	0.759-0.879
Freon 114	5.46	9.33	0.585	ok	0.585	0.525-0.645
Freon 152A	5.07	9.33	0.543	ok	0.543	0.483-0.603
Heptane	12.00	11.08	1.083	ok	1.083	1.023-1.143
Hexachloroethane	19.73	15.36	1.285	ok	1.284	1.224-1.344
Hexane	9.33	9.33	1.000	ok	1.000	0.940-1.060
Iodomethane	7.29	9.33	0.781	ok	0.781	0.721-0.841
Isopropylbenzene	17.10	15.36	1.113	ok	1.113	1.053-1.173
p-Isopropyltoluene	18.80	15.36	1.224	ok	1.224	1.164-1.284
Methylene chloride	7.44	9.33	0.797	ok	0.796	0.736-0.856
Methyl ethyl ketone	8.80	9.33	0.943	ok	0.942	0.882-1.002
Methyl Isobutyl Ketone	12.62	11.08	1.139	ok	1.138	1.078-1.198
Methyl Tert Butyl Ether	8.50	9.33	0.911	ok	0.909	0.849-0.969
Methylmethacrylate	11.92	11.08	1.076	ok	1.075	1.015-1.135
Nonane	16.66	15.36	1.085	ok	1.084	1.024-1.144
Octane	14.49	15.36	0.943	ok	0.943	0.883-1.003
Pentane	7.08	9.33	0.759	ok	0.758	0.698-0.818
n-Propylbenzene	17.65	15.36	1.149	ok	1.149	1.089-1.209
Propylene	5.15	9.33	0.552	ok	0.552	0.492-0.612
Styrene	16.37	15.36	1.066	ok	1.065	1.005-1.125
1,1,1-Trichloroethane	10.36	9.33	1.110	ok	1.110	1.050-1.170
1,1,1,2-Tetrachloroethane	15.39	15.36	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	16.48	15.36	1.073	ok	1.073	1.013-1.133
1,1,2-Trichloroethane	13.28	11.08	1.199	ok	1.198	1.138-1.258
1,2,3-Trichloropropane	16.62	15.36	1.082	ok	1.082	1.022-1.142
1,2,4-Trimethylbenzene	18.34	15.36	1.194	ok	1.194	1.134-1.254
1,3,5-Trimethylbenzene	17.89	15.36	1.165	ok	1.164	1.104-1.224
2,2,4-Trimethylpentane	11.77	11.08	1.062	ok	1.062	1.002-1.122
Tertiary Butyl Alcohol	7.38	9.33	0.791	ok	0.789	0.729-0.849
Tetrachloroethylene	14.70	15.36	0.957	ok	0.957	0.897-1.017
Tetrahydrofuran	9.86	9.33	1.057	ok	1.055	0.995-1.115
Toluene	13.55	11.08	1.223	ok	1.223	1.163-1.283
Trichloroethylene	11.77	11.08	1.062	ok	1.062	1.002-1.122
Trichlorofluoromethane	6.79	9.33	0.728	ok	0.727	0.667-0.787
Vinyl chloride	5.58	9.33	0.598	ok	0.598	0.538-0.658

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	Reporting this level
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
m,p-Xylene	15.98	15.36	1.040	ok	1.040	0.980-1.100
o-Xylene	16.48	15.36	1.073	ok	1.073	1.013-1.133

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	9.33	ok	9.33	9.00-9.66	106804	ok	109288	65573-153003
1,4-Difluorobenzene	11.08	ok	11.08	10.75-11.41	480958	ok	477226	286336-668116
Chlorobenzene-D5	15.36	ok	15.37	15.04-15.70	196435	ok	221374	132824-309924

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	Reporting this level
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,3-Butadiene	5.72	9.34	0.612	ok	0.612	0.552-0.672
Benzene	10.79	11.08	0.974	ok	0.974	0.914-1.034
Bromobenzene	17.23	15.36	1.122	ok	1.121	1.061-1.181
Bromodichloromethane	11.74	11.08	1.060	ok	1.059	0.999-1.119
Bromoform	16.09	15.36	1.048	ok	1.048	0.988-1.108
Bromomethane	5.96	9.34	0.638	ok	0.639	0.579-0.699
Bromoethene	6.43	9.34	0.688	ok	0.689	0.629-0.749
Benzyl Chloride	18.50	15.36	1.204	ok	1.204	1.144-1.264
n-Butylbenzene	19.27	15.36	1.255	ok	1.254	1.194-1.314
sec-Butylbenzene	18.62	15.36	1.212	ok	1.212	1.152-1.272
tert-Butylbenzene	18.33	15.36	1.193	ok	1.193	1.133-1.253
Chlorobenzene	15.42	15.36	1.004	ok	1.003	0.943-1.063
Chloroform	9.45	9.34	1.012	ok	1.012	0.952-1.072
2-Chlorotoluene	17.63	15.36	1.148	ok	1.147	1.087-1.207
Carbon tetrachloride	10.92	9.34	1.169	ok	1.170	1.110-1.230
1,1-Dichloroethane	8.44	9.34	0.904	ok	0.904	0.844-0.964
1,2-Dibromoethane	14.25	15.36	0.928	ok	0.927	0.867-0.987
1,2-Dichloroethane	10.13	9.34	1.085	ok	1.085	1.025-1.145
1,2-Dichloropropane	11.55	11.08	1.042	ok	1.042	0.982-1.102
Dichlorodifluoromethane	5.22	9.34	0.559	ok	0.559	0.499-0.619
Dichlorofluoromethane	6.19	9.34	0.663	ok	0.662	0.602-0.722
Dibromochloromethane	13.99	15.36	0.911	ok	0.911	0.851-0.971
Dibromomethane	11.53	11.08	1.041	ok	1.041	0.981-1.101
cis-1,3-Dichloropropene	12.59	11.08	1.136	ok	1.135	1.075-1.195
m-Dichlorobenzene	18.53	15.36	1.206	ok	1.206	1.146-1.266
o-Dichlorobenzene	18.98	15.36	1.236	ok	1.235	1.175-1.295
p-Dichlorobenzene	18.59	15.36	1.210	ok	1.210	1.150-1.270
trans-1,3-Dichloropropene	13.09	11.08	1.181	ok	1.181	1.121-1.241
2,4-Dimethylpentane	10.14	9.34	1.086	ok	1.086	1.026-1.146
Ethylbenzene	15.80	15.36	1.029	ok	1.028	0.968-1.088
4-Ethyltoluene	17.80	15.36	1.159	ok	1.159	1.099-1.219
Freon 113	7.64	9.34	0.818	ok	0.819	0.759-0.879
Freon 114	5.46	9.34	0.585	ok	0.585	0.525-0.645
Heptane	11.99	11.08	1.082	ok	1.083	1.023-1.143
Hexachloroethane	19.73	15.36	1.285	ok	1.284	1.224-1.344
Hexane	9.34	9.34	1.000	ok	1.000	0.940-1.060
Iodomethane	7.30	9.34	0.782	ok	0.781	0.721-0.841
Isopropylbenzene	17.09	15.36	1.113	ok	1.113	1.053-1.173

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	Reporting this level
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
p-Isopropyltoluene	18.81	15.36	1.225	ok	1.224	1.164-1.284
Methylene chloride	7.43	9.34	0.796	ok	0.796	0.736-0.856
Methyl Isobutyl Ketone	12.64	11.08	1.141	ok	1.138	1.078-1.198
Methyl Tert Butyl Ether	8.50	9.34	0.910	ok	0.909	0.849-0.969
Nonane	16.66	15.36	1.085	ok	1.084	1.024-1.144
Octane	14.49	15.36	0.943	ok	0.943	0.883-1.003
n-Propylbenzene	17.65	15.36	1.149	ok	1.149	1.089-1.209
Propylene	5.15	9.34	0.551	ok	0.552	0.492-0.612
Styrene	16.37	15.36	1.066	ok	1.065	1.005-1.125
1,1,1-Trichloroethane	10.36	9.34	1.109	ok	1.110	1.050-1.170
1,1,1,2-Tetrachloroethane	15.39	15.36	1.002	ok	1.002	0.942-1.062
1,1,2,2-Tetrachloroethane	16.48	15.36	1.073	ok	1.073	1.013-1.133
1,1,2-Trichloroethane	13.27	11.08	1.198	ok	1.198	1.138-1.258
1,2,3-Trichloropropane	16.64	15.36	1.083	ok	1.082	1.022-1.142
1,2,4-Trimethylbenzene	18.34	15.36	1.194	ok	1.194	1.134-1.254
1,3,5-Trimethylbenzene	17.88	15.36	1.164	ok	1.164	1.104-1.224
2,2,4-Trimethylpentane	11.77	11.08	1.062	ok	1.062	1.002-1.122
Tertiary Butyl Alcohol	7.38	9.34	0.790	ok	0.789	0.729-0.849
Tetrachloroethylene	14.70	15.36	0.957	ok	0.957	0.897-1.017
Toluene	13.55	11.08	1.223	ok	1.223	1.163-1.283
Trichloroethylene	11.76	11.08	1.061	ok	1.062	1.002-1.122
Trichlorofluoromethane	6.79	9.34	0.727	ok	0.727	0.667-0.787
Vinyl chloride	5.59	9.34	0.599	ok	0.598	0.538-0.658
m,p-Xylene	15.97	15.36	1.040	ok	1.040	0.980-1.100
o-Xylene	16.48	15.36	1.073	ok	1.073	1.013-1.133

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	9.34	ok	9.33	9.00-9.66	103414	ok	109288	65573-153003
1,4-Difluorobenzene	11.08	ok	11.08	10.75-11.41	447506	ok	477226	286336-668116
Chlorobenzene-D5	15.36	ok	15.37	15.04-15.70	186595	ok	221374	132824-309924

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	Reporting this level
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.63	9.34	0.710	ok	0.711	0.651-0.771
Acrolein	6.52	9.34	0.698	ok	0.699	0.639-0.759
Acrylonitrile	7.03	9.34	0.753	ok	0.754	0.694-0.814
Acetonitrile	6.40	9.34	0.685	ok	0.686	0.626-0.746
1,3-Butadiene	5.71	9.34	0.611	ok	0.612	0.552-0.672
Benzene	10.79	11.08	0.974	ok	0.974	0.914-1.034
Bromobenzene	17.23	15.37	1.121	ok	1.121	1.061-1.181
Bromodichloromethane	11.74	11.08	1.060	ok	1.059	0.999-1.119
Bromoform	16.11	15.37	1.048	ok	1.048	0.988-1.108
Bromomethane	5.96	9.34	0.638	ok	0.639	0.579-0.699
Bromoethene	6.43	9.34	0.688	ok	0.689	0.629-0.749
n-Butane	5.75	9.34	0.616	ok	0.617	0.557-0.677
Benzyl Chloride	18.50	15.37	1.204	ok	1.204	1.144-1.264
n-Butylbenzene	19.27	15.37	1.254	ok	1.254	1.194-1.314
sec-Butylbenzene	18.63	15.37	1.212	ok	1.212	1.152-1.272
tert-Butylbenzene	18.33	15.37	1.193	ok	1.193	1.133-1.253
Carbon disulfide	7.75	9.34	0.830	ok	0.830	0.770-0.890
Chlorobenzene	15.41	15.37	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	5.11	9.34	0.547	ok	0.548	0.488-0.608
Chloroethane	6.11	9.34	0.654	ok	0.655	0.595-0.715
Chloroform	9.44	9.34	1.011	ok	1.012	0.952-1.072
Chloromethane	5.38	9.34	0.576	ok	0.576	0.516-0.636
3-Chloropropene	7.54	9.34	0.807	ok	0.808	0.748-0.868
2-Chlorotoluene	17.63	15.37	1.147	ok	1.147	1.087-1.207
Carbon tetrachloride	10.93	9.34	1.170	ok	1.170	1.110-1.230
Cyclohexane	11.05	11.08	0.997	ok	0.997	0.937-1.057
1,1-Dichloroethane	8.44	9.34	0.904	ok	0.904	0.844-0.964
1,1-Dichloroethylene	7.34	9.34	0.786	ok	0.786	0.726-0.846
1,2-Dibromoethane	14.25	15.37	0.927	ok	0.927	0.867-0.987
1,2-Dichloroethane	10.13	9.34	1.085	ok	1.085	1.025-1.145
1,2-Dichloropropane	11.55	11.08	1.042	ok	1.042	0.982-1.102
1,4-Dioxane	11.77	11.08	1.062	ok	1.063	1.003-1.123
Dichlorodifluoromethane	5.22	9.34	0.559	ok	0.559	0.499-0.619
Dichlorofluoromethane	6.18	9.34	0.662	ok	0.662	0.602-0.722
Dibromochloromethane	14.00	15.37	0.911	ok	0.911	0.851-0.971
Dibromomethane	11.54	11.08	1.042	ok	1.041	0.981-1.101
trans-1,2-Dichloroethylene	8.25	9.34	0.883	ok	0.884	0.824-0.944
cis-1,2-Dichloroethylene	9.18	9.34	0.983	ok	0.984	0.924-1.044

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	Reporting this level
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,3-Dichloropropene	12.58	11.08	1.135	ok	1.135	1.075-1.195
m-Dichlorobenzene	18.53	15.37	1.206	ok	1.206	1.146-1.266
o-Dichlorobenzene	18.98	15.37	1.235	ok	1.235	1.175-1.295
p-Dichlorobenzene	18.60	15.37	1.210	ok	1.210	1.150-1.270
trans-1,3-Dichloropropene	13.08	11.08	1.181	ok	1.181	1.121-1.241
Di-Isopropyl ether	9.33	9.34	0.999	ok	0.999	0.939-1.059
2,3-Dimethylpentane	11.23	11.08	1.014	ok	1.013	0.953-1.073
2,4-Dimethylpentane	10.14	9.34	1.086	ok	1.086	1.026-1.146
Ethanol	6.19	9.34	0.663	ok	0.663	0.603-0.723
Ethylbenzene	15.79	15.37	1.027	ok	1.028	0.968-1.088
Ethyl Acetate	9.35	9.34	1.001	ok	1.002	0.942-1.062
4-Ethyltoluene	17.80	15.37	1.158	ok	1.159	1.099-1.219
Freon 113	7.64	9.34	0.818	ok	0.819	0.759-0.879
Freon 114	5.46	9.34	0.585	ok	0.585	0.525-0.645
Freon 152A	5.07	9.34	0.543	ok	0.543	0.483-0.603
Heptane	12.00	11.08	1.083	ok	1.083	1.023-1.143
Hexachlorobutadiene	21.37	15.37	1.390	ok	1.391	1.331-1.451
Hexachloroethane	19.73	15.37	1.284	ok	1.284	1.224-1.344
Hexane	9.33	9.34	0.999	ok	1.000	0.940-1.060
2-Hexanone	13.78	15.37	0.897	ok	0.897	0.837-0.957
Iodomethane	7.30	9.34	0.782	ok	0.781	0.721-0.841
Isopropylbenzene	17.10	15.37	1.113	ok	1.113	1.053-1.173
Isopropyl Alcohol	6.82	9.34	0.730	ok	0.731	0.671-0.791
p-Isopropyltoluene	18.80	15.37	1.223	ok	1.224	1.164-1.284
Methylene chloride	7.44	9.34	0.797	ok	0.796	0.736-0.856
Methyl ethyl ketone	8.78	9.34	0.940	ok	0.942	0.882-1.002
Methyl Isobutyl Ketone	12.60	11.08	1.137	ok	1.138	1.078-1.198
Methyl Tert Butyl Ether	8.48	9.34	0.908	ok	0.909	0.849-0.969
Methylmethacrylate	11.91	11.08	1.075	ok	1.075	1.015-1.135
Naphthalene	21.01	15.37	1.367	ok	1.367	1.307-1.427
Nonane	16.66	15.37	1.084	ok	1.084	1.024-1.144
Octane	14.49	15.37	0.943	ok	0.943	0.883-1.003
Pentane	7.07	9.34	0.757	ok	0.758	0.698-0.818
n-Propylbenzene	17.65	15.37	1.148	ok	1.149	1.089-1.209
Propylene	5.15	9.34	0.551	ok	0.552	0.492-0.612
Styrene	16.37	15.37	1.065	ok	1.065	1.005-1.125
1,1,1-Trichloroethane	10.36	9.34	1.109	ok	1.110	1.050-1.170
1,1,1,2-Tetrachloroethane	15.39	15.37	1.001	ok	1.002	0.942-1.062

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	Reporting this level
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2,2-Tetrachloroethane	16.48	15.37	1.072	ok	1.073	1.013-1.133
1,1,2-Trichloroethane	13.28	11.08	1.199	ok	1.198	1.138-1.258
1,2,4-Trichlorobenzene	21.29	15.37	1.385	ok	1.386	1.326-1.446
1,2,3-Trichloropropane	16.62	15.37	1.081	ok	1.082	1.022-1.142
1,2,4-Trimethylbenzene	18.34	15.37	1.193	ok	1.194	1.134-1.254
1,3,5-Trimethylbenzene	17.88	15.37	1.163	ok	1.164	1.104-1.224
2,2,4-Trimethylpentane	11.77	11.08	1.062	ok	1.062	1.002-1.122
Tertiary Butyl Alcohol	7.36	9.34	0.788	ok	0.789	0.729-0.849
Tetrachloroethylene	14.70	15.37	0.956	ok	0.957	0.897-1.017
Tetrahydrofuran	9.84	9.34	1.054	ok	1.055	0.995-1.115
Toluene	13.56	11.08	1.224	ok	1.223	1.163-1.283
Trichloroethylene	11.77	11.08	1.062	ok	1.062	1.002-1.122
Trichlorofluoromethane	6.78	9.34	0.726	ok	0.727	0.667-0.787
Vinyl chloride	5.58	9.34	0.597	ok	0.598	0.538-0.658
Vinyl Acetate	8.53	9.34	0.913	ok	0.914	0.854-0.974
m,p-Xylene	15.98	15.37	1.040	ok	1.040	0.980-1.100
o-Xylene	16.49	15.37	1.073	ok	1.073	1.013-1.133

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	9.34	ok	9.33	9.00-9.66	110048	ok	109288	65573-153003
1,4-Difluorobenzene	11.08	ok	11.08	10.75-11.41	476452	ok	477226	286336-668116
Chlorobenzene-D5	15.37	ok	15.37	15.04-15.70	250221	ok	221374	132824-309924

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.63	9.34	0.710	ok	0.711	0.651-0.771
Acrolein	6.52	9.34	0.698	ok	0.699	0.639-0.759
Acrylonitrile	7.03	9.34	0.753	ok	0.754	0.694-0.814
Acetonitrile	6.40	9.34	0.685	ok	0.686	0.626-0.746
1,3-Butadiene	5.71	9.34	0.611	ok	0.612	0.552-0.672
Benzene	10.79	11.08	0.974	ok	0.974	0.914-1.034
Bromobenzene	17.23	15.38	1.120	ok	1.121	1.061-1.181
Bromodichloromethane	11.74	11.08	1.060	ok	1.059	0.999-1.119
Bromoform	16.11	15.38	1.047	ok	1.048	0.988-1.108
Bromomethane	5.96	9.34	0.638	ok	0.639	0.579-0.699
Bromoethene	6.43	9.34	0.688	ok	0.689	0.629-0.749
n-Butane	5.75	9.34	0.616	ok	0.617	0.557-0.677
Benzyl Chloride	18.50	15.38	1.203	ok	1.204	1.144-1.264
n-Butylbenzene	19.27	15.38	1.253	ok	1.254	1.194-1.314
sec-Butylbenzene	18.63	15.38	1.211	ok	1.212	1.152-1.272
tert-Butylbenzene	18.33	15.38	1.192	ok	1.193	1.133-1.253
Carbon disulfide	7.75	9.34	0.830	ok	0.830	0.770-0.890
Chlorobenzene	15.42	15.38	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	5.11	9.34	0.547	ok	0.548	0.488-0.608
Chloroethane	6.11	9.34	0.654	ok	0.655	0.595-0.715
Chloroform	9.45	9.34	1.012	ok	1.012	0.952-1.072
Chloromethane	5.38	9.34	0.576	ok	0.576	0.516-0.636
3-Chloropropene	7.54	9.34	0.807	ok	0.808	0.748-0.868
2-Chlorotoluene	17.63	15.38	1.146	ok	1.147	1.087-1.207
Carbon tetrachloride	10.93	9.34	1.170	ok	1.170	1.110-1.230
Cyclohexane	11.05	11.08	0.997	ok	0.997	0.937-1.057
1,1-Dichloroethane	8.44	9.34	0.904	ok	0.904	0.844-0.964
1,1-Dichloroethylene	7.34	9.34	0.786	ok	0.786	0.726-0.846
1,2-Dibromoethane	14.25	15.38	0.927	ok	0.927	0.867-0.987
1,2-Dichloroethane	10.13	9.34	1.085	ok	1.085	1.025-1.145
1,2-Dichloropropane	11.55	11.08	1.042	ok	1.042	0.982-1.102
1,4-Dioxane	11.77	11.08	1.062	ok	1.063	1.003-1.123
Dichlorodifluoromethane	5.21	9.34	0.558	ok	0.559	0.499-0.619
Dichlorofluoromethane	6.18	9.34	0.662	ok	0.662	0.602-0.722
Dibromochloromethane	14.00	15.38	0.910	ok	0.911	0.851-0.971
Dibromomethane	11.54	11.08	1.042	ok	1.041	0.981-1.101
trans-1,2-Dichloroethylene	8.25	9.34	0.883	ok	0.884	0.824-0.944
cis-1,2-Dichloroethylene	9.18	9.34	0.983	ok	0.984	0.924-1.044

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,3-Dichloropropene	12.58	11.08	1.135	ok	1.135	1.075-1.195
m-Dichlorobenzene	18.53	15.38	1.205	ok	1.206	1.146-1.266
o-Dichlorobenzene	18.98	15.38	1.234	ok	1.235	1.175-1.295
p-Dichlorobenzene	18.60	15.38	1.209	ok	1.210	1.150-1.270
trans-1,3-Dichloropropene	13.09	11.08	1.181	ok	1.181	1.121-1.241
Di-Isopropyl ether	9.33	9.34	0.999	ok	0.999	0.939-1.059
2,3-Dimethylpentane	11.23	11.08	1.014	ok	1.013	0.953-1.073
2,4-Dimethylpentane	10.14	9.34	1.086	ok	1.086	1.026-1.146
Ethanol	6.19	9.34	0.663	ok	0.663	0.603-0.723
Ethylbenzene	15.80	15.38	1.027	ok	1.028	0.968-1.088
Ethyl Acetate	9.35	9.34	1.001	ok	1.002	0.942-1.062
4-Ethyltoluene	17.81	15.38	1.158	ok	1.159	1.099-1.219
Freon 113	7.64	9.34	0.818	ok	0.819	0.759-0.879
Freon 114	5.46	9.34	0.585	ok	0.585	0.525-0.645
Freon 152A	5.07	9.34	0.543	ok	0.543	0.483-0.603
Heptane	12.00	11.08	1.083	ok	1.083	1.023-1.143
Hexachlorobutadiene	21.37	15.38	1.389	ok	1.391	1.331-1.451
Hexachloroethane	19.73	15.38	1.283	ok	1.284	1.224-1.344
Hexane	9.34	9.34	1.000	ok	1.000	0.940-1.060
2-Hexanone	13.78	15.38	0.896	ok	0.897	0.837-0.957
Iodomethane	7.29	9.34	0.781	ok	0.781	0.721-0.841
Isopropylbenzene	17.10	15.38	1.112	ok	1.113	1.053-1.173
Isopropyl Alcohol	6.83	9.34	0.731	ok	0.731	0.671-0.791
p-Isopropyltoluene	18.80	15.38	1.222	ok	1.224	1.164-1.284
Methylene chloride	7.43	9.34	0.796	ok	0.796	0.736-0.856
Methyl ethyl ketone	8.79	9.34	0.941	ok	0.942	0.882-1.002
Methyl Isobutyl Ketone	12.61	11.08	1.138	ok	1.138	1.078-1.198
Methyl Tert Butyl Ether	8.48	9.34	0.908	ok	0.909	0.849-0.969
Methylmethacrylate	11.91	11.08	1.075	ok	1.075	1.015-1.135
Naphthalene	21.01	15.38	1.366	ok	1.367	1.307-1.427
Nonane	16.66	15.38	1.083	ok	1.084	1.024-1.144
Octane	14.49	15.38	0.942	ok	0.943	0.883-1.003
Pentane	7.07	9.34	0.757	ok	0.758	0.698-0.818
n-Propylbenzene	17.65	15.38	1.148	ok	1.149	1.089-1.209
Propylene	5.15	9.34	0.551	ok	0.552	0.492-0.612
Styrene	16.38	15.38	1.065	ok	1.065	1.005-1.125
1,1,1-Trichloroethane	10.36	9.34	1.109	ok	1.110	1.050-1.170
1,1,1,2-Tetrachloroethane	15.39	15.38	1.001	ok	1.002	0.942-1.062

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW2031-ICC2031	W50852.D	04/08/15 21:03	DFT	10	GCMSW	TO-15	
VW2031-IC2031	W50853.D	04/08/15 21:44	DFT	5	GCMSW	TO-15	
VW2031-IC2031	W50854.D	04/08/15 22:24	DFT	0.5	GCMSW	TO-15	
VW2031-IC2031	W50855.D	04/08/15 23:05	DFT	0.2	GCMSW	TO-15	
VW2031-IC2031	W50856.D	04/08/15 23:45	DFT	20	GCMSW	TO-15	
VW2031-IC2031	W50857.D	04/09/15 00:25	DFT	15	GCMSW	TO-15	
VW2031-IC2031	W50859.D	04/09/15 01:46	DFT	0.1	GCMSW	TO-15	
VW2031-IC2031	W50860.D	04/09/15 02:27	DFT	0.04	GCMSW	TO-15	
VW2031-IC2031	W50861.D	04/09/15 03:07	DFT	30	GCMSW	TO-15	
VW2031-IC2031	W50863.D	04/09/15 04:28	DFT	40	GCMSW	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2,2-Tetrachloroethane	16.48	15.38	1.072	ok	1.073	1.013-1.133
1,1,2-Trichloroethane	13.28	11.08	1.199	ok	1.198	1.138-1.258
1,2,4-Trichlorobenzene	21.29	15.38	1.384	ok	1.386	1.326-1.446
1,2,3-Trichloropropane	16.62	15.38	1.081	ok	1.082	1.022-1.142
1,2,4-Trimethylbenzene	18.34	15.38	1.192	ok	1.194	1.134-1.254
1,3,5-Trimethylbenzene	17.89	15.38	1.163	ok	1.164	1.104-1.224
2,2,4-Trimethylpentane	11.77	11.08	1.062	ok	1.062	1.002-1.122
Tertiary Butyl Alcohol	7.36	9.34	0.788	ok	0.789	0.729-0.849
Tetrachloroethylene	14.71	15.38	0.956	ok	0.957	0.897-1.017
Tetrahydrofuran	9.84	9.34	1.054	ok	1.055	0.995-1.115
Toluene	13.56	11.08	1.224	ok	1.223	1.163-1.283
Trichloroethylene	11.77	11.08	1.062	ok	1.062	1.002-1.122
Trichlorofluoromethane	6.78	9.34	0.726	ok	0.727	0.667-0.787
Vinyl chloride	5.58	9.34	0.597	ok	0.598	0.538-0.658
Vinyl Acetate	8.54	9.34	0.914	ok	0.914	0.854-0.974
m,p-Xylene	15.98	15.38	1.039	ok	1.040	0.980-1.100
o-Xylene	16.49	15.38	1.072	ok	1.073	1.013-1.133

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	9.34	ok	9.33	9.00-9.66	123049	ok	109288	65573-153003
1,4-Difluorobenzene	11.08	ok	11.08	10.75-11.41	504510	ok	477226	286336-668116
Chlorobenzene-D5	15.38	ok	15.37	15.04-15.70	271480	ok	221374	132824-309924

Volatile Surrogate Recovery Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Method: TO-15 **Matrix:** AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JB94203-1	5W11437.D	102
JB94203-2	5W11439.D	102
JB94203-2	5W11518.D	99
JB94203-2	5W11471.D	102
JB94203-3	5W11440.D	104
JB94203-3	5W11472.D	99
JB94203-4	5W11441.D	103
JB94203-4	5W11473.D	98
JB94203-5	5W11492.D	97
JB94203-5	5W11442.D	105
JB94203-1DUP	5W11438.D	101
JB94245-1DUP	5W11470.D	99
JB94388-4DUP	5W11489.D	99
JB94453-1DUP	5W11513.D	99
V3W1792-SCC	3W47240.D	89
V5W449-BS	5W11427.D	98
V5W449-BSD	5W11428.D	99
V5W449-MB	5W11430.D	96
V5W450-BS	5W11457.D	96
V5W450-BSD	5W11458.D	98
V5W450-MB	5W11460.D	97
V5W451-BS	5W11480.D	99
V5W451-BSD	5W11481.D	100
V5W451-MB	5W11483.D	100
V5W452-BS	5W11507.D	99
V5W452-BSD	5W11508.D	99
V5W452-MB	5W11510.D	98
VW2039-SCC	W51056.D	94
V3W1792-BS	3W47224.D	103
V3W1792-BSD	3W47225.D	105
V3W1792-MB	3W47227.D	88
VW2039-BS	W51046.D	102
VW2039-BSD	W51047.D	101
VW2039-MB	W51049.D	98

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	65-128%

Initial Calibration Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: V3W1782-ICC1782
Lab FileID: 3W46967.D

Response Factor Report MS3W

```
Method       : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title        : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update  : Wed Apr 15 11:30:49 2015
Response via : Initial Calibration

Calibration Files
0.04=3W46975.D   0.1 =3W46974.D   0.2 =3W46970.D   0.5 =3W46969.D
5   =3W46968.D   10  =3W46967.D   20  =3W46971.D   40  =3W46978.D
15  =3W46972.D   30  =3W46976.D       =                =

Compound
        0.04  0.1   0.2   0.5   5     10    20    40    15    30     Avg   %RSD
-------------------------------------------------------------------------------

1) I   BROMOCHLOROMETHANE    ----------------ISTD---------------------
2)  1,1,1-TRIFLUOROETHANE
                                                                     0.000   -1.00
3)  FREON 115
                                                                     0.000   -1.00
4)  FREON 152A
            0.944 0.947 0.886 0.983 0.886 0.847 0.787 0.844 0.827  0.883    7.29
5)  CHLORODIFLUOROMETHANE
            0.362 0.385 0.331 0.381 0.345 0.326 0.299 0.325 0.317  0.341    8.63
6)  DICHLORODIFLUOROMETHANE
     4.213 3.684 3.793 3.554 3.828 3.439 3.224 2.926 3.243 3.116  3.502   11.11
7)  PROPYLENE
            1.298 1.345 1.146 1.238 1.139 1.081 0.977 1.047 1.056  1.147   10.76
8)  1-CHLORO-1,1-DIFLUOROETHANE
                                                                     0.000   -1.00
9)  FREON 114
     4.616 3.768 3.733 3.637 3.951 3.542 3.322 2.996 3.343 3.216  3.612   12.59
10)  CHLOROMETHANE
            1.822 1.850 1.654 1.752 1.576 1.479 1.372 1.490 1.453  1.605   10.75
11)  VINYL CHLORIDE
     1.807 1.478 1.578 1.515 1.698 1.527 1.443 1.359 1.456 1.414  1.527    8.89
12)  1,3-BUTADIENE
     1.340 0.973 1.055 1.029 1.204 1.121 1.074 0.979 1.053 1.048  1.088   10.20
13)  n-BUTANE
            2.674 2.536 2.189 2.393 2.176 2.070 1.815 1.996 1.995  2.205   12.68
14)  BROMOMETHANE
            1.505 1.417 1.327 1.475 1.333 1.256 1.172 1.276 1.215  1.331    8.65
15)  CHLOROETHANE
     0.858 0.763 0.844 0.771 0.874 0.799 0.754 0.702 0.747 0.739  0.785    7.22
16)  DICHLOROFLUOROMETHANE
     3.891 3.248 3.238 3.005 3.365 3.030 2.849 2.542 2.823 2.751  3.074   12.45
17)  ACETONITRILE
                  0.929 0.986 1.021 0.964 1.001 0.889 0.916 0.991  0.962    4.80
18)  FREON 123
     4.021 3.365 3.435 3.246 3.549 3.157 3.031 2.656 3.009 2.914  3.238   11.78
19)  FREON 123A
     1.982 1.837 1.858 1.755 1.901 1.690 1.637 1.490 1.643 1.587  1.738    8.91
20)  TRICHLOROFLUOROMETHANE
     4.178 3.401 3.374 3.274 3.615 3.246 3.074 2.702 3.085 2.983  3.293   12.16
21)  1,1-DICHLORO-1-FLUOROETHANE
                                                                     0.000   -1.00
22)  ISOPROPYL ALCOHOL
            2.414 2.709 2.496 2.718 2.405 2.101 1.511 2.279 1.766  2.267   18.07
23)  ACETONE
```

Initial Calibration Summary

Job Number: JB94203 **Sample:** V3W1782-ICC1782
Account: PTCNJB PT Consultants **Lab FileID:** 3W46967.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

```
              0.778 0.715 0.609 0.641 0.588 0.603 0.548 0.570 0.592  0.627   11.83
24)  PENTANE
              1.917 1.861 1.637 1.689 1.525 1.471 1.264 1.431 1.420  1.580   13.62
25)  TVHC as EQUIV PENTANE
       7.056 7.248 9.331 7.729 8.953 8.245 8.128 7.181 7.838 7.918  7.963    9.34
26)  IODOMETHANE
       3.889 3.344 3.424 3.309 3.716 3.326 3.138 2.930 3.221 3.046  3.334    8.72
27)  1,1-DICHLOROETHYLENE
       1.487 1.307 1.335 1.231 1.389 1.265 1.172 1.105 1.200 1.154  1.264    9.27
28)  CARBON DISULFIDE
       4.890 3.844 4.078 3.555 4.178 3.790 3.616 3.351 3.628 3.537  3.847   11.57
29)  ETHANOL
              0.695 0.621 0.543 0.614 0.545 0.461 0.346 0.510 0.397  0.526   21.21
30)  BROMOETHENE
       1.535 1.246 1.263 1.233 1.431 1.305 1.241 1.166 1.267 1.204  1.289    8.65
31)  ACRYLONITRILE
              0.520 0.556 0.626 0.823 0.766 0.788 0.733 0.735 0.777  0.703   15.45
32)  METHYLENE CHLORIDE
              1.308 1.153 1.144 1.252 1.117 1.072 1.018 1.087 1.051  1.134    8.35
33)  3-CHLOROPROPENE
       0.600 0.532 0.629 0.584 0.674 0.615 0.596 0.570 0.591 0.585  0.598    6.28
34)  FREON 113
       2.253 1.916 2.003 1.931 2.170 1.957 1.860 1.745 1.890 1.805  1.953    8.00
35)  TRANS-1,2-DICHLOROETHYLENE
       1.500 1.199 1.210 1.160 1.404 1.289 1.211 1.192 1.229 1.202  1.260    8.64
36)  TERTIARY BUTYL ALCOHOL
       2.842 2.307 3.091 2.917 3.480 3.064 2.728 1.981 2.934 2.284  2.763   16.28
37)  METHYL TERTIARY BUTYL ETHER
       3.631 3.090 3.257 3.192 3.791 3.433 3.449 3.237 3.363 3.382  3.382    6.19
38)  TETRAHYDROFURAN
              0.451 0.507 0.523 0.669 0.591 0.607 0.604 0.598 0.618  0.574   11.68
39)  HEXANE
       2.196 2.117 2.061 2.022 2.278 2.098 2.031 1.884 1.969 1.990  2.065    5.53
40)  VINYL ACETATE
                    0.169 0.170 0.269 0.254 0.266 0.273 0.250 0.270  0.240   18.42
41)  1,1-DICHLOROETHANE
       3.013 2.510 2.675 2.448 2.704 2.431 2.358 2.190 2.318 2.302  2.495    9.74
42)  METHYL ETHYL KETONE
              0.409 0.469 0.508 0.640 0.586 0.608 0.612 0.585 0.614  0.559   14.04
43)  cis-1,2-DICHLOROETHYLENE
       1.323 1.183 1.265 1.158 1.466 1.311 1.271 1.240 1.283 1.271  1.277    6.58
44)  DIISOPROPYL ETHER
              0.336 0.506 0.397 0.523 0.509 0.520 0.487 0.501 0.509  0.476   13.68
45)  ETHYL ACETATE
                    0.399 0.428 0.509 0.468 0.475 0.458 0.460 0.480  0.460    7.29
46)  METHYL ACRYLATE
              1.490 1.538 1.567 2.117 2.023 2.127 2.055 1.971 2.133  1.891   14.57
47)  CHLOROFORM
       3.167 2.620 2.828 2.536 2.892 2.603 2.546 2.403 2.516 2.497  2.661    8.72
48)  2,4-DIMETHYLPENTANE
       2.792 2.413 2.496 2.328 2.757 2.507 2.429 2.259 2.388 2.377  2.475    7.04
49)  1,1,1-TRICHLOROETHANE
       3.040 2.579 2.605 2.485 2.799 2.525 2.445 2.300 2.436 2.395  2.561    8.44
50)  CARBON TETRACHLORIDE
       3.199 2.717 2.794 2.602 2.948 2.694 2.588 2.402 2.583 2.530  2.706    8.47
51)  1,2-DICHLOROETHANE
       1.393 1.341 1.546 1.411 1.666 1.526 1.545 1.477 1.495 1.538  1.494    6.26

52) I   1,4-DIFLUOROBENZENE   ----------------ISTD--------------------
53)  BENZENE
```

Initial Calibration Summary

Job Number: JB94203 **Sample:** V3W1782-ICC1782
Account: PTCNJB PT Consultants **Lab FileID:** 3W46967.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

```
      1.009 0.871 0.900 0.844 0.961 0.866 0.849 0.806 0.843 0.827  0.877    7.19
54)  CYCLOHEXANE
      0.573 0.488 0.514 0.480 0.540 0.490 0.462 0.436 0.470 0.450  0.490    8.52
55)  2,3-DIMETHYLPENTANE
                  0.285 0.224 0.225 0.202 0.197 0.189 0.196 0.193  0.214   14.94
56)  TRICHLOROETHYLENE
      0.447 0.374 0.416 0.387 0.411 0.369 0.365 0.344 0.364 0.359  0.384    8.20
57)  1,2-DICHLOROPROPANE
            0.446 0.441 0.312 0.360 0.333 0.329 0.314 0.319 0.323  0.353   15.12
58)  DIBROMOMETHANE
      0.351 0.319 0.306 0.298 0.355 0.325 0.324 0.312 0.323 0.320  0.323    5.53
59)  ETHYL ACRYLATE
                  0.413 0.414 0.606 0.584 0.612 0.581 0.582 0.612  0.551   15.54
60)  BROMODICHLOROMETHANE
      0.667 0.587 0.624 0.571 0.670 0.601 0.610 0.559 0.595 0.594  0.608    6.02
61)  2,2,4-TRIMETHYLPENTANE
      1.879 1.499 1.550 1.412 1.577 1.420 1.372 1.246 1.358 1.320  1.463   12.19
62)  1,4-DIOXANE
                  0.198 0.126 0.211 0.192 0.169 0.140 0.190 0.148  0.172   17.89
63)  HEPTANE
      0.613 0.530 0.592 0.510 0.583 0.528 0.526 0.475 0.512 0.512  0.538    8.08
64)  TVHC as EQUIV HEPTANE
      3.102 2.832 3.508 3.289 3.824 3.517 3.524 3.278 3.420 3.467  3.376    8.01
65)  METHYL METHACRYLATE
                  0.241 0.230 0.312 0.292 0.303 0.290 0.293 0.301  0.283   10.67
66)  METHYL ISOBUTYL KETONE
                  0.189 0.204 0.273 0.256 0.268 0.257 0.258 0.267  0.246   12.83
67)  cis-1,3-DICHLOROPROPENE
      0.416 0.360 0.388 0.373 0.484 0.454 0.476 0.462 0.457 0.475  0.435   10.65
68)  TOLUENE
      0.769 0.589 0.580 0.519 0.616 0.568 0.579 0.550 0.563 0.569  0.590   11.46
69)  trans-1,3-DICHLOROPROPENE
      0.264 0.267 0.293 0.304 0.398 0.381 0.406 0.409 0.389 0.416  0.353   17.79
70)  1,1,2-TRICHLOROETHANE
      0.267 0.261 0.277 0.256 0.315 0.289 0.293 0.283 0.284 0.291  0.282    6.13

71) I   CHLOROBENZENE-D5      ----------------ISTD---------------------
72)  2-HEXANONE
                  0.439 0.507 0.706 0.677 0.667 0.648 0.679 0.658  0.623   15.40
73)  ETHYL METHACRYLATE
                  0.727 0.732 1.062 0.978 0.964 0.911 0.975 0.941  0.911   13.19
74)  TETRACHLOROETHYLENE
      0.999 0.904 0.932 0.823 0.849 0.737 0.696 0.646 0.721 0.675  0.798   15.15
75)  DIBROMOCHLOROMETHANE
      1.290 1.094 1.217 1.117 1.298 1.159 1.106 1.023 1.144 1.064  1.151    7.97
76)  1,2-DIBROMOETHANE
      0.843 0.862 0.913 0.872 1.035 0.921 0.917 0.881 0.928 0.902  0.907    5.82
77)  OCTANE
      1.391 1.246 1.418 1.329 1.581 1.408 1.309 1.151 1.345 1.246  1.343    8.81
78)  1,1,1,2-TETRACHLOROETHANE
      0.964 0.796 0.892 0.834 0.956 0.850 0.793 0.705 0.827 0.755  0.837    9.89
79)  CHLOROBENZENE
      1.643 1.407 1.491 1.387 1.565 1.389 1.360 1.255 1.379 1.320  1.420    8.17
80)  ETHYLBENZENE
      2.631 2.245 2.514 2.253 2.742 2.438 2.314 2.074 2.374 2.192  2.378    8.67
81)  m,p-XYLENE
      0.939 0.824 0.923 0.878 1.032 0.924 0.883 0.785 0.906 0.838  0.893    7.74
82)  o-XYLENE
      0.828 0.740 0.884 0.857 1.001 0.903 0.862 0.785 0.886 0.828  0.858    8.25
83)  STYRENE
```

Initial Calibration Summary

Job Number: JB94203 **Sample:** V3W1782-ICC1782
Account: PTCNJB PT Consultants **Lab FileID:** 3W46967.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

```
      0.899 0.850 1.045 0.951 1.402 1.305 1.304 1.240 1.309 1.271  1.157   17.33
 84)  NONANE
      1.099 0.978 1.175 1.192 1.565 1.368 1.306 1.142 1.322 1.237  1.238   13.12
 85)  BROMOFORM
      0.958 0.929 1.015 0.972 1.239 1.125 1.107 1.036 1.130 1.079  1.059    8.99
 86)  4-BROMOFLUOROBENZENE
      1.032 1.037 1.043 1.086 1.195 1.203 1.164 1.108 1.191 1.134  1.119    6.07
 87)  1,1,2,2-TETRACHLOROETHANE
      1.370 1.135 1.392 1.315 1.579 1.419 1.359 1.186 1.388 1.284  1.343    9.25
 88)  1,2,3-TRICHLOROPROPANE
      0.990 0.850 1.029 0.977 1.150 1.040 1.009 0.942 1.027 0.978  0.999    7.65
 89)  ISOPROPYLBENZENE
      2.594 2.373 2.668 2.515 3.029 2.690 2.520 2.191 2.614 2.365  2.556    8.90
 90)  BROMOBENZENE
      1.344 1.124 1.180 1.060 1.313 1.194 1.189 1.118 1.185 1.165  1.187    7.23
 91)  2-CHLOROTOLUENE
      0.555 0.475 0.580 0.551 0.710 0.638 0.621 0.586 0.632 0.605  0.595   10.56
 92)  n-PROPYLBENZENE
                  0.544 0.561 0.754 0.688 0.670 0.626 0.676 0.653  0.646   10.64
 93)  4-ETHYLTOLUENE
      1.831 1.622 1.828 1.851 2.645 2.442 2.344 2.097 2.386 2.229  2.127   15.68
 94)  1,3,5-TRIMETHYLBENZENE
      1.851 1.672 1.908 1.774 2.363 2.124 2.028 1.814 2.067 1.932  1.953   10.23
 95)  ALPHA-METHYLSTYRENE
                  0.584 0.598 1.045 0.994 0.993 0.939 1.000 0.975  0.891   21.05
 96)  tert-BUTYLBENZENE
            0.326 0.412 0.413 0.530 0.477 0.455 0.402 0.465 0.432  0.435   13.14
 97)  1,2,4-TRIMETHYLBENZENE
      1.604 1.408 1.605 1.618 2.235 2.046 1.958 1.671 2.008 1.831  1.798   14.34
 98)  m-DICHLOROBENZENE
      1.041 0.920 0.918 0.892 1.262 1.200 1.205 1.113 1.217 1.178  1.095   12.90
 99)  BENZYL CHLORIDE
                  1.053 0.993 1.554 1.542 1.616 1.496 1.603 1.587  1.430   17.81
100)  p-DICHLOROBENZENE
      1.140 0.948 0.966 0.919 1.235 1.172 1.199 1.139 1.202 1.177  1.110   10.64
101)  sec-BUTYLBENZENE
                  0.440 0.467 0.620 0.573 0.560 0.519 0.563 0.545  0.536   10.96
102)  p-ISOPROPYLTOLUENE
                  0.405 0.448 0.654 0.605 0.593 0.519 0.605 0.563  0.549   15.63
103)  o-DICHLOROBENZENE
      1.091 0.889 0.943 0.933 1.257 1.170 1.166 1.089 1.172 1.140  1.085   11.32
104)  n-BUTYLBENZENE
                  0.266 0.305 0.527 0.506 0.518 0.500 0.512 0.513  0.456   23.26
105)  HEXACHLOROETHANE
            0.998 1.015 0.839 1.020 0.912 0.879 0.779 0.891 0.835  0.908    9.53
106)  HEXACHLOROBUTADIENE
      0.480 0.463 0.548 0.536 0.750 0.704 0.700 0.637 0.701 0.676  0.619   16.74
107)  1,2,4-TRICHLOROBENZENE
      0.280 0.272 0.234 0.220 0.382 0.413 0.491 0.530 0.469 0.518  0.381   31.74
108)  NAPHTHALENE
                  0.405 0.445 0.683 0.760 0.935 1.025 0.887 0.990  0.766   31.22
 ------------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M3W1782.M         Thu Apr 16 11:20:35 2015   MS3W
```

6.9.1

6

Initial Calibration Verification

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Sample: V3W1782-ICV1782
Lab FileID: 3W46980.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\3W46980.D Vial: 4
Acq On : 15 Apr 2015 1:57 am Operator: YOUMINH
Sample : ICV1782-10 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	115	0.00	7.16
2		1,1,1-TRIFLUOROETHANE		----------NA----------				
3		FREON 115		----------NA----------				
4		FREON 152A	0.883	0.852	3.5	110	0.00	4.23
5		CHLORODIFLUOROMETHANE	0.341	0.330	3.2	110	0.00	4.25
6		DICHLORODIFLUOROMETHANE	3.502	3.285	6.2	110	0.00	4.31
7		PROPYLENE	1.147	1.068	6.9	108	0.00	4.27
8		1-CHLORO-1,1-DIFLUOROETHA		----------NA----------				
9		FREON 114	3.612	3.411	5.6	110	0.00	4.44
10		CHLOROMETHANE	1.605	1.466	8.7	107	0.00	4.40
11		VINYL CHLORIDE	1.527	1.465	4.1	110	0.00	4.52
12		1,3-BUTADIENE	1.088	1.062	2.4	109	0.00	4.58
13		n-BUTANE	2.205	2.066	6.3	109	0.00	4.60
14		BROMOMETHANE	1.331	1.294	2.8	111	0.00	4.74
15		CHLOROETHANE	0.785	0.740	5.7	106	0.00	4.82
16		DICHLOROFLUOROMETHANE	3.074	2.831	7.9	107	0.00	4.86
17		ACETONITRILE	0.962	0.938	2.5	112	0.00	5.04
18		FREON 123	3.238	3.109	4.0	113	0.00	5.07
19		FREON 123A	1.738	1.672	3.8	114	0.00	5.11
20		TRICHLOROFLUOROMETHANE	3.293	3.094	6.0	109	0.00	5.23
21		1,1-DICHLORO-1-FLUOROETHA		----------NA----------				
22		ISOPROPYL ALCOHOL	2.267	2.362	-4.2	113	0.00	5.29
23		ACETONE	0.627	0.571	8.9	111	0.00	5.15
24		PENTANE	1.580	1.413	10.6	106	0.00	5.40
25	H	TVHC as EQUIV PENTANE	7.963	7.739	2.8	108	0.00	5.40
26		IODOMETHANE	3.334	3.325	0.3	115	0.00	5.57
27		1,1-DICHLOROETHYLENE	1.264	1.220	3.5	111	0.00	5.61
28		CARBON DISULFIDE	3.847	3.733	3.0	113	0.00	5.87
29		ETHANOL	0.526	0.544	-3.4	115	0.00	4.91
30		BROMOETHENE	1.289	1.301	-0.9	114	0.00	5.01
31		ACRYLONITRILE	0.703	0.745	-6.0	112	0.00	5.42
32		METHYLENE CHLORIDE	1.134	1.094	3.5	112	0.00	5.68
33		3-CHLOROPROPENE	0.598	0.600	-0.3	112	0.00	5.75
34		FREON 113	1.953	2.004	-2.6	118	0.00	5.82
35		TRANS-1,2-DICHLOROETHYLEN	1.260	1.302	-3.3	116	0.00	6.26
36		TERTIARY BUTYL ALCOHOL	2.763	2.950	-6.8	110	0.00	5.63
37		METHYL TERTIARY BUTYL ETH	3.382	3.498	-3.4	117	0.00	6.41
38		TETRAHYDROFURAN	0.574	0.611	-6.4	119	0.00	7.55
39		HEXANE	2.065	2.030	1.7	111	0.00	7.09
40		VINYL ACETATE	0.240	0.268	-11.7	121	0.00	6.51
41		1,1-DICHLOROETHANE	2.495	2.422	2.9	114	0.00	6.41
42		METHYL ETHYL KETONE	0.559	0.602	-7.7	118	0.00	6.68

Initial Calibration Verification

Job Number: JB94203 **Sample:** V3W1782-ICV1782
Account: PTCNJB PT Consultants **Lab FileID:** 3W46980.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

43		cis-1,2-DICHLOROETHYLENE	1.277	1.333	-4.4	117	0.00	7.05
44		DIISOPROPYL ETHER	0.476	0.507	-6.5	114	0.00	7.10
45		ETHYL ACETATE	0.460	0.451	2.0	111	0.00	7.17
46		METHYL ACRYLATE	1.891	2.023	-7.0	115	0.00	7.19
47		CHLOROFORM	2.661	2.622	1.5	116	0.00	7.25
48		2,4-DIMETHYLPENTANE	2.475	2.460	0.6	113	0.00	7.78
49		1,1,1-TRICHLOROETHANE	2.561	2.529	1.2	115	0.00	8.03
50		CARBON TETRACHLORIDE	2.706	2.667	1.4	114	0.00	8.55
51		1,2-DICHLOROETHANE	1.494	1.545	-3.4	116	0.00	7.83
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	115	0.00	8.74
53		BENZENE	0.877	0.876	0.1	116	0.00	8.43
54		CYCLOHEXANE	0.490	0.478	2.4	112	0.00	8.59
55		2,3-DIMETHYLPENTANE	0.214	0.200	6.5	113	0.00	8.78
56		TRICHLOROETHYLENE	0.384	0.371	3.4	115	0.00	9.34
57		1,2-DICHLOROPROPANE	0.353	0.330	6.5	114	0.00	9.11
58		DIBROMOMETHANE	0.323	0.339	-5.0	120	0.00	9.13
59		ETHYL ACRYLATE	0.551	0.589	-6.9	116	0.00	9.14
60		BROMODICHLOROMETHANE	0.608	0.613	-0.8	117	0.00	9.32
61		2,2,4-TRIMETHYLPENTANE	1.463	1.386	5.3	112	0.00	9.28
62		1,4-DIOXANE	0.172	0.201	-16.9	120	0.00	9.38
63		HEPTANE	0.538	0.519	3.5	113	0.00	9.54
64	H	TVHC as EQUIV HEPTANE	3.376	3.489	-3.3	114	0.00	9.54
65		METHYL METHACRYLATE	0.283	0.299	-5.7	118	0.00	9.55
66		METHYL ISOBUTYL KETONE	0.246	0.257	-4.5	115	0.00	10.15
67		cis-1,3-DICHLOROPROPENE	0.435	0.467	-7.4	118	0.00	10.17
68		TOLUENE	0.590	0.583	1.2	118	0.00	11.08
69		trans-1,3-DICHLOROPROPENE	0.353	0.395	-11.9	119	0.00	10.67
70		1,1,2-TRICHLOROETHANE	0.282	0.295	-4.6	117	0.00	10.83
71	I	CHLOROBENZENE-D5	1.000	1.000	0.0	112	0.00	12.89
72		2-HEXANONE	0.623	0.695	-11.6	115	0.00	11.34
73		ETHYL METHACRYLATE	0.911	1.017	-11.6	116	0.00	11.38
74		TETRACHLOROETHYLENE	0.798	0.783	1.9	119	0.00	12.21
75		DIBROMOCHLOROMETHANE	1.151	1.229	-6.8	119	0.00	11.52
76		1,2-DIBROMOETHANE	0.907	0.998	-10.0	121	0.00	11.72
77		OCTANE	1.343	1.418	-5.6	113	0.00	12.01
78		1,1,1,2-TETRACHLOROETHANE	0.837	0.885	-5.7	116	0.00	12.91
79		CHLOROBENZENE	1.420	1.502	-5.8	121	0.00	12.93
80		ETHYLBENZENE	2.378	2.593	-9.0	119	0.00	13.31
81		m,p-XYLENE	0.893	0.980	-9.7	119	0.00	13.50
82		o-XYLENE	0.858	0.961	-12.0	119	0.00	13.99
83		STYRENE	1.157	1.409	-21.8	121	0.00	13.90
84		NONANE	1.238	1.404	-13.4	115	0.00	14.21
85		BROMOFORM	1.059	1.225	-15.7	122	0.00	13.59
86	S	4-BROMOFLUOROBENZENE	1.119	1.214	-8.5	113	0.00	14.52
87		1,1,2,2-TETRACHLOROETHANE	1.343	1.488	-10.8	117	0.00	14.02
88		1,2,3-TRICHLOROPROPANE	0.999	1.108	-10.9	119	0.00	14.14
89		ISOPROPYLBENZENE	2.556	2.857	-11.8	119	0.00	14.65
90		BROMOBENZENE	1.187	1.287	-8.4	121	0.00	14.76
91		2-CHLOROTOLUENE	0.595	0.690	-16.0	121	0.00	15.20
92		n-PROPYLBENZENE	0.646	0.732	-13.3	119	0.00	15.24
93		4-ETHYLTOLUENE	2.127	2.589	-21.7	119	0.00	15.41
94		1,3,5-TRIMETHYLBENZENE	1.953	2.268	-16.1	119	0.00	15.51
95		ALPHA-METHYLSTYRENE	0.891	1.075	-20.7	121	0.00	15.73
96		tert-BUTYLBENZENE	0.435	0.503	-15.6	118	0.00	16.00
97		1,2,4-TRIMETHYLBENZENE	1.798	2.167	-20.5	118	0.00	16.01
98		m-DICHLOROBENZENE	1.095	1.298	-18.5	121	0.00	16.20
99		BENZYL CHLORIDE	1.430	1.659	-16.0	120	0.00	16.20
100		p-DICHLOROBENZENE	1.110	1.279	-15.2	122	0.00	16.29

Initial Calibration Verification

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: V3W1782-ICV1782
Lab FileID: 3W46980.D

101	sec-BUTYLBENZENE	0.536	0.607	-13.2	118	0.00	16.34
102	p-ISOPROPYLTOLUENE	0.549	0.659	-20.0	122	0.00	16.54
103	o-DICHLOROBENZENE	1.085	1.272	-17.2	122	0.00	16.73
104	n-BUTYLBENZENE	0.456	0.547	-20.0	121	0.00	17.07
105	HEXACHLOROETHANE	0.908	0.965	-6.3	118	0.00	17.55
106	HEXACHLOROBUTADIENE	0.619	0.776	-25.4	123	0.00	19.40
107	1,2,4-TRICHLOROBENZENE	0.381	0.478	-25.5	130	0.00	18.82
108	NAPHTHALENE	0.766	0.881	-15.0	130	0.00	18.96

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3W46967.D M3W1782.M Thu Apr 16 15:42:06 2015 MS3W

6.9.2

6

Continuing Calibration Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Sample: V3W1792-CC1782
Lab FileID: 3W47222.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\3W47222.D Vial: 2
Acq On : 27 Apr 2015 10:30 am Operator: YOUMINH
Sample : CC1782-10 Inst : MS3W
Misc : MS84235,V3W1792,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	97	0.00	7.16
2		1,1,1-TRIFLUOROETHANE		----------NA----------				
3		FREON 115		----------NA----------				
4		FREON 152A	0.883	0.806	8.7	88	0.00	4.23
5		CHLORODIFLUOROMETHANE	0.341	0.311	8.8	87	0.00	4.26
6		DICHLORODIFLUOROMETHANE	3.502	3.123	10.8	88	0.00	4.31
7		PROPYLENE	1.147	1.038	9.5	88	0.00	4.27
8		1-CHLORO-1,1-DIFLUOROETHA		----------NA----------				
9		FREON 114	3.612	3.249	10.0	89	0.00	4.44
10		CHLOROMETHANE	1.605	1.416	11.8	87	0.00	4.41
11		VINYL CHLORIDE	1.527	1.424	6.7	90	0.00	4.52
12		1,3-BUTADIENE	1.088	1.029	5.4	89	0.00	4.58
13		n-BUTANE	2.205	2.026	8.1	90	0.00	4.60
14		BROMOMETHANE	1.331	1.252	5.9	91	0.00	4.74
15		CHLOROETHANE	0.785	0.733	6.6	89	0.00	4.82
16		DICHLOROFLUOROMETHANE	3.074	2.814	8.5	90	0.00	4.87
17		ACETONITRILE	0.962	0.969	-0.7	97	0.00	5.04
18		FREON 123	3.238	3.075	5.0	94	0.00	5.08
19		FREON 123A	1.738	1.663	4.3	95	0.00	5.11
20		TRICHLOROFLUOROMETHANE	3.293	3.117	5.3	93	0.00	5.23
21		1,1-DICHLORO-1-FLUOROETHA		----------NA----------				
22		ISOPROPYL ALCOHOL	2.267	2.394	-5.6	96	0.00	5.29
23		ACETONE	0.627	0.587	6.4	97	0.00	5.15
24		PENTANE	1.580	1.442	8.7	91	0.00	5.40
25	H	TVHC as EQUIV PENTANE	7.963	7.920	0.5	93	0.00	5.40
26		IODOMETHANE	3.334	3.273	1.8	95	0.00	5.57
27		1,1-DICHLOROETHYLENE	1.264	1.184	6.3	91	0.00	5.61
28		CARBON DISULFIDE	3.847	3.597	6.5	92	0.00	5.87
29		ETHANOL	0.526	0.530	-0.8	94	0.00	4.91
30		BROMOETHENE	1.289	1.243	3.6	92	0.00	5.02
31		ACRYLONITRILE	0.703	0.758	-7.8	96	0.00	5.43
32		METHYLENE CHLORIDE	1.134	1.056	6.9	91	0.00	5.69
33		3-CHLOROPROPENE	0.598	0.577	3.5	91	0.00	5.75
34		FREON 113	1.953	1.924	1.5	95	0.00	5.82
35		TRANS-1,2-DICHLOROETHYLEN	1.260	1.184	6.0	89	0.00	6.26
36		TERTIARY BUTYL ALCOHOL	2.763	3.000	-8.6	95	0.00	5.63
37		METHYL TERTIARY BUTYL ETH	3.382	3.365	0.5	95	0.00	6.42
38		TETRAHYDROFURAN	0.574	0.571	0.5	94	0.00	7.55
39		HEXANE	2.065	1.911	7.5	88	0.00	7.09
40		VINYL ACETATE	0.240	0.254	-5.8	96	0.00	6.51
41		1,1-DICHLOROETHANE	2.495	2.293	8.1	91	0.00	6.41
42		METHYL ETHYL KETONE	0.559	0.585	-4.7	97	0.00	6.68

Continuing Calibration Summary

Job Number: JB94203 **Sample:** V3W1792-CC1782
Account: PTCNJB PT Consultants **Lab FileID:** 3W47222.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

43		cis-1,2-DICHLOROETHYLENE	1.277	1.235	3.3	91	0.00	7.05
44		DIISOPROPYL ETHER	0.476	0.461	3.2	88	0.00	7.11
45		ETHYL ACETATE	0.460	0.454	1.3	94	0.00	7.17
46		METHYL ACRYLATE	1.891	1.949	-3.1	93	0.00	7.19
47		CHLOROFORM	2.661	2.433	8.6	90	0.00	7.25
48		2,4-DIMETHYLPENTANE	2.475	2.331	5.8	90	0.00	7.78
49		1,1,1-TRICHLOROETHANE	2.561	2.341	8.6	90	0.00	8.03
50		CARBON TETRACHLORIDE	2.706	2.435	10.0	87	0.00	8.55
51		1,2-DICHLOROETHANE	1.494	1.447	3.1	92	0.00	7.83
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	96	0.00	8.74
53		BENZENE	0.877	0.820	6.5	91	0.00	8.42
54		CYCLOHEXANE	0.490	0.443	9.6	87	0.00	8.59
55		2,3-DIMETHYLPENTANE	0.214	0.190	11.2	90	0.00	8.78
56		TRICHLOROETHYLENE	0.384	0.351	8.6	91	0.00	9.34
57		1,2-DICHLOROPROPANE	0.353	0.316	10.5	91	0.00	9.10
58		DIBROMOMETHANE	0.323	0.323	0.0	95	0.00	9.13
59		ETHYL ACRYLATE	0.551	0.564	-2.4	93	0.00	9.14
60		BROMODICHLOROMETHANE	0.608	0.586	3.6	94	0.00	9.32
61		2,2,4-TRIMETHYLPENTANE	1.463	1.349	7.8	91	0.00	9.28
62		1,4-DIOXANE	0.172	0.192	-11.6	96	0.00	9.38
63		HEPTANE	0.538	0.502	6.7	91	0.00	9.54
64	H	TVHC as EQUIV HEPTANE	3.376	3.321	1.6	91	0.00	9.54
65		METHYL METHACRYLATE	0.283	0.281	0.7	92	0.00	9.55
66		METHYL ISOBUTYL KETONE	0.246	0.245	0.4	92	0.00	10.15
67		cis-1,3-DICHLOROPROPENE	0.435	0.433	0.5	92	0.00	10.16
68		TOLUENE	0.590	0.550	6.8	93	0.00	11.08
69		trans-1,3-DICHLOROPROPENE	0.353	0.362	-2.5	91	0.00	10.67
70		1,1,2-TRICHLOROETHANE	0.282	0.279	1.1	93	0.00	10.82
71	I	CHLOROBENZENE-D5	1.000	1.000	0.0	93	0.00	12.88
72		2-HEXANONE	0.623	0.666	-6.9	91	0.00	11.34
73		ETHYL METHACRYLATE	0.911	0.960	-5.4	91	0.00	11.38
74		TETRACHLOROETHYLENE	0.798	0.752	5.8	95	0.00	12.21
75		DIBROMOCHLOROMETHANE	1.151	1.151	0.0	92	0.00	11.52
76		1,2-DIBROMOETHANE	0.907	0.920	-1.4	93	0.00	11.72
77		OCTANE	1.343	1.406	-4.7	93	0.00	12.01
78		1,1,1,2-TETRACHLOROETHANE	0.837	0.864	-3.2	94	0.00	12.91
79		CHLOROBENZENE	1.420	1.421	-0.1	95	0.00	12.92
80		ETHYLBENZENE	2.378	2.471	-3.9	94	0.00	13.30
81		m,p-XYLENE	0.893	0.940	-5.3	95	0.00	13.49
82		o-XYLENE	0.858	0.921	-7.3	95	0.00	13.99
83		STYRENE	1.157	1.332	-15.1	95	0.00	13.90
84		NONANE	1.238	1.395	-12.7	95	0.00	14.21
85		BROMOFORM	1.059	1.165	-10.0	96	0.00	13.58
86	S	4-BROMOFLUOROBENZENE	1.119	1.180	-5.5	91	0.00	14.52
87		1,1,2,2-TETRACHLOROETHANE	1.343	1.441	-7.3	94	0.00	14.01
88		1,2,3-TRICHLOROPROPANE	0.999	1.040	-4.1	93	0.00	14.14
89		ISOPROPYLBENZENE	2.556	2.728	-6.7	94	0.00	14.65
90		BROMOBENZENE	1.187	1.192	-0.4	93	0.00	14.76
91		2-CHLOROTOLUENE	0.595	0.653	-9.7	95	0.00	15.20
92		n-PROPYLBENZENE	0.646	0.704	-9.0	95	0.00	15.24
93		4-ETHYLTOLUENE	2.117	2.456	-16.0	93	0.00	15.41
94		1,3,5-TRIMETHYLBENZENE	1.953	2.134	-9.3	93	0.00	15.51
95		ALPHA-METHYLSTYRENE	0.891	1.010	-13.4	94	0.00	15.72
96		tert-BUTYLBENZENE	0.435	0.485	-11.5	94	0.00	16.00
97		1,2,4-TRIMETHYLBENZENE	1.798	2.069	-15.1	94	0.00	16.01
98		m-DICHLOROBENZENE	1.095	1.241	-13.3	96	0.00	16.20
99		BENZYL CHLORIDE	1.430	1.546	-8.1	93	0.00	16.20
100		p-DICHLOROBENZENE	1.110	1.209	-8.9	96	0.00	16.29

Continuing Calibration Summary

Job Number: JB94203 **Sample:** V3W1792-CC1782
Account: PTCNJB PT Consultants **Lab FileID:** 3W47222.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

101	sec-BUTYLBENZENE	0.536	0.570	-6.3	92	0.00	16.34
102	p-ISOPROPYLTOLUENE	0.549	0.625	-13.8	96	0.00	16.54
103	o-DICHLOROBENZENE	1.085	1.217	-12.2	97	0.00	16.72
104	n-BUTYLBENZENE	0.456	0.516	-13.2	95	0.00	17.07
105	HEXACHLOROETHANE	0.908	0.935	-3.0	95	0.00	17.55
106	HEXACHLOROBUTADIENE	0.619	0.751	-21.3	99	0.00	19.40
107	1,2,4-TRICHLOROBENZENE	0.381	0.431	-13.1	97	0.00	18.82
108	NAPHTHALENE	0.766	0.791	-3.3	97	0.00	18.96

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3W46967.D M3W1782.M Tue Apr 28 10:44:17 2015 MS3W

6.9.3

6

Initial Calibration Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: V5W419-ICC419
Lab FileID: 5W10673.D

Response Factor Report GCMS5W

Method Path : C:\msdchem\1\METHODS\
Method File : m5w419.M
Title : TO-15 Full Scan Mode
Last Update : Fri Apr 03 14:39:01 2015
Response Via : Initial Calibration

Calibration Files
20 =5w10674.D 30 =5w10675.D 0.5 =5w10671.D 0.2 =5w10670.D 0.1 =5w10669.D 0.04=5w10668.D 10 =5w10673.D
5 =5w10672.D 40 =5w10677.D

	Compound	20	30	0.5	0.2	0.1	0.04	10	5	40	Avg	%RSD
1) I	Bromochloromethane	----------ISTD----------										
2)	1,1,1-Trifluor...										0.000	-1.00
3)	Freon 152A	0.594	0.610	0.615	0.646			0.653	0.594	0.621	0.619	3.79
4)	Chlorodifluoro...	0.245	0.249	0.216	0.217	0.202		0.265	0.240	0.253	0.236	9.22
5)	Propene	0.678	0.695	0.630	0.638	0.727	0.987	0.735	0.667	0.717	0.719	14.88
6)	Dichlorodifluo...	2.621	2.672	2.383	2.488	2.421	2.617	2.872	2.591	2.554	2.580	5.66
7)	1-Chloro-1,1-d...										0.000	-1.00
8)	Chloromethane	0.830	0.841	0.786	0.769	0.798	0.867	0.920	0.843	0.868	0.836	5.61
9)	Dichlorotetraf...	2.556	2.618	2.340	2.424	2.372	2.467	2.811	2.557	2.650	2.533	5.90
10)	Vinyl Chloride	1.010	1.029	0.932	0.972	0.912	0.984	1.109	1.016	1.051	1.002	6.01
11)	1,3-Butadiene	0.715	0.729	0.650	0.653	0.663	0.699	0.784	0.714	0.755	0.707	6.54
12)	n-Butane	0.148	0.151	0.133	0.125	0.117		0.166	0.149	0.155	0.143	11.69
13)	Bromomethane	0.999	1.014	0.935	0.973	0.977	1.189	1.089	0.993	1.029	1.022	7.39
14)	Chloroethane	0.497	0.499	0.458	0.470	0.490	0.432	0.543	0.497	0.518	0.489	6.64
15)	Dichlorofluoro...	2.215	2.249	2.050	2.132	2.092	2.274	2.446	2.218	2.296	2.219	5.37
16)	Acetonitrile	0.796	0.802	1.171	1.377	0.714	0.641	0.873	0.794	0.838	0.890	26.31
17)	Freon 123	2.502	2.544	2.292	2.346	2.244	2.415	2.724	2.480	2.604	2.461	6.26
18)	Freon 123A	1.236	1.369	1.256	1.197	1.178	1.251	1.353	1.234	1.390	1.274	6.07
19)	Bromoethene	0.974	0.994	0.866	0.880	0.880	0.884	1.063	0.961	1.005	0.945	7.41
20)	Trichlorofluor...	2.524	2.588	2.326	2.366	2.320	2.266	2.776	2.501	2.636	2.478	6.91
21)	Acetone	0.457	0.461	0.486	0.526	0.397	0.470	0.497	0.445	0.478	0.469	7.64
22)	Pentane	0.249	0.255	0.216	0.218	0.204		0.267	0.241	0.269	0.240	10.28
23)	1,1-Dichloro-1...										0.000	-1.00
24)	Iodomethane	2.738	2.790	2.507	2.562	2.457	2.546	2.983	2.700	2.817	2.678	6.44
25)	Isopropyl Alcohol	1.753	1.768	2.025	2.063	1.689		1.919	1.720	1.826	1.845	7.66
26)	1,1-Dichloroet...	1.564	1.599	1.397	1.418	1.408	1.447	1.687	1.522	1.659	1.522	7.29
27)	Freon 113	2.146	2.182	1.940	1.943	1.895	1.988	2.317	2.104	2.245	2.085	7.18
28)	Methylene Chlo...	0.919	0.937	0.829	0.836	0.914	1.060	0.997	0.899	0.964	0.928	7.87
29)	Carbon Disulfide	3.063	3.114	2.708	2.748	2.678	2.772	3.323	3.027	3.197	2.959	8.02
30)	Ethanol	0.403	0.412	0.571	0.659	0.437		0.460	0.416	0.424	0.473	19.57
31)	Acrylonitrile	0.796	0.825	0.841	0.846	0.509		0.853	0.760	0.862	0.786	14.90
32)	3-Chloropropene	0.485	0.507	0.404	0.397	0.331	0.312	0.521	0.461	0.519	0.438	18.26
33)	trans-1,2-Dich...	1.525	1.568	1.316	1.329	1.254	1.432	1.645	1.478	1.618	1.463	9.56
34)	tert-Butyl Alc...	2.373	2.437	2.083	2.127			2.536	2.249	2.469	2.325	7.53
35)	Methyl tert-Bu...	2.821	2.907	2.461	2.536	2.292	2.393	3.048	2.740	2.968	2.685	10.15
36)	Vinyl Acetate	2.687	2.777	2.479	2.545	1.837	2.107	2.849	2.509	2.900	2.521	13.92
37)	1,1-Dichloroet...	1.901	1.947	1.681	1.734	1.720	1.743	2.064	1.860	2.025	1.853	7.60
38)	2-Butanone	0.525	0.537	0.493	0.470			0.558	0.496	0.557	0.520	6.54
39)	Hexane	1.606	1.634	1.444	1.450	1.922	2.048	1.737	1.558	1.661	1.673	12.12
40)	cis-1,2-Dichlo...	1.463	1.492	1.284	1.304	1.295	1.230	1.560	1.400	1.544	1.397	8.81
41)	Di-isopropyl E...	3.743	3.781	3.288	3.420	3.033	3.358	4.061	3.624	3.843	3.572	9.01
42)	Ethyl Acetate	0.379	0.387	0.336	0.288			0.405	0.355	0.400	0.364	11.41
43)	Methyl Acrylate	2.070	2.107	1.966	1.923			2.214	1.963	2.156	2.057	5.34
44)	Chloroform	2.337	2.382	2.073	2.105	2.027	2.073	2.520	2.275	2.446	2.249	8.17
45)	2,4-Dimethylpe...	1.906	1.939	1.598	1.637	1.627	1.681	2.051	1.808	2.000	1.805	9.70

Initial Calibration Summary

Job Number: JB94203 **Sample:** V5W419-ICC419
Account: PTCNJB PT Consultants **Lab FileID:** 5W10673.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

46)		Tetrahydrofuran	0.519	0.529	0.457	0.440		0.559	0.498	0.549	0.507	8.89
47)		1,1,1-Trichlor...	2.154	2.209	1.907	1.991	1.945	1.962	2.344	2.113	2.269	2.099	7.44
48)		1,2-Dichloroet...	1.389	1.417	1.241	1.215	1.154	1.130	1.509	1.339	1.460	1.317	10.42
49)		Benzene	3.414	3.451	3.011	3.060	2.986	3.310	3.719	3.319	3.560	3.314	7.67
50)		Carbon Tetrach...	2.307	2.361	1.990	2.054	1.946	2.054	2.475	2.228	2.429	2.205	9.04
51)		Cyclohexane	1.627	1.650	1.435	1.476	1.475	1.511	1.749	1.565	1.725	1.579	7.25
52)		2,3-Dimethylpe...	0.709	0.725	0.614	0.608	0.571	0.500	0.765	0.686	0.743	0.658	13.59
53)	I	1,4-Difluorobenzene	----------ISTD----------										
54)		2,2,4-Trimethy...	1.400	1.425	1.179	1.185	1.152	1.331	1.496	1.357	1.478	1.334	9.90
55)		Heptane	0.285	0.292	0.235	0.243	0.235	0.220	0.304	0.272	0.304	0.266	12.23
56)		Trichloroethene	0.412	0.423	0.353	0.368	0.351	0.388	0.438	0.399	0.441	0.397	8.69
57)		1,2-Dichloropr...	0.347	0.356	0.295	0.297	0.289	0.284	0.366	0.335	0.373	0.327	10.90
58)		Dibromomethane	0.364	0.376	0.333	0.345	0.336	0.334	0.390	0.356	0.384	0.358	6.19
59)		Ethyl Acrylate	0.676	0.697	0.614	0.599			0.711	0.634	0.729	0.666	7.56
60)		Methyl Methacr...	0.315	0.327	0.272	0.270			0.333	0.298	0.341	0.308	9.31
61)		1,4-Dioxane	0.216	0.223	0.238	0.234			0.225	0.202	0.232	0.224	5.49
62)		Bromodichlorom...	0.691	0.712	0.582	0.597	0.558	0.602	0.735	0.665	0.739	0.653	10.67
63)		cis-1,3-Dichlo...	0.539	0.560	0.463	0.467	0.431	0.447	0.575	0.519	0.586	0.510	11.52
64)		4-Methyl-2-pen...	0.278	0.287	0.228	0.218			0.293	0.260	0.303	0.267	12.26
65)		trans-1,3-Dich...	0.497	0.510	0.428	0.420	0.366	0.373	0.521	0.464	0.536	0.457	13.88
66)		Toluene	1.086	1.106	0.938	0.973	0.924	1.044	1.154	1.062	1.148	1.048	8.21
67)		1,1,2-Trichlor...	0.388	0.396	0.344	0.341	0.309	0.319	0.411	0.376	0.413	0.366	10.68
68)		2-Hexanone	0.398	0.408	0.377	0.356			0.411	0.365	0.433	0.392	7.05
69)		Ethyl Methacry...	0.569	0.584	0.474	0.470			0.593	0.530	0.617	0.548	10.66
70)		Dibromochlorom...	0.707	0.724	0.602	0.618	0.597	0.668	0.751	0.680	0.748	0.677	8.94
71)		Tetrachloroethene	0.525	0.534	0.461	0.470	0.476	0.504	0.561	0.514	0.548	0.510	6.91
72)		1,2-Dibromoethane	0.629	0.650	0.567	0.573	0.510	0.516	0.671	0.610	0.673	0.600	10.34
73)		Octane	0.673	0.688	0.533	0.584	0.586	0.703	0.716	0.643	0.723	0.650	10.42
74)		1,1,1,2-Tetrac...	0.469	0.479	0.401	0.412	0.367	0.386	0.497	0.453	0.498	0.440	11.27
75)	I	Chlorobenzene-d5	----------ISTD----------										
76)		Chlorobenzene	1.475	1.413	1.483	1.534	1.445	1.573	1.613	1.566	1.380	1.498	5.24
77)		Ethylbenzene	2.447	2.333	2.389	2.418	2.300	2.433	2.694	2.608	2.255	2.431	5.83
78)		m,p-Xylene	1.902	1.813	1.953	2.004	1.906	1.995	2.076	2.133	1.769	1.950	6.02
79)		Styrene	1.444	1.377	1.326	1.354	1.147	1.090	1.587	1.498	1.340	1.352	11.61
80)		Nonane	1.199	1.159	1.117	1.201	1.196	1.429	1.354	1.294	1.145	1.233	8.46
81)		o-Xylene	1.926	1.828	1.852	1.915	1.791	1.867	2.119	2.028	1.752	1.898	6.10
82)		Bromoform	1.231	1.184	1.138	1.159	1.090	1.092	1.337	1.256	1.148	1.182	6.83
83)		1,1,2,2-Tetrac...	1.581	1.517	1.600	1.639	1.492	1.539	1.728	1.641	1.454	1.577	5.44
84)		1,2,3-Trichlor...	1.096	1.068	1.125	1.149	0.994	1.000	1.199	1.143	1.038	1.090	6.48
85)		Isopropylbenzene	2.639	2.485	2.608	2.619	2.463	2.544	2.906	2.800	2.424	2.610	6.07
86)		Bromobenzene	0.856	0.818	0.836	0.849	0.827	0.840	0.943	0.914	0.798	0.853	5.44
87)		2-Chlorotoluene	0.663	0.640	0.646	0.637	0.618	0.565	0.730	0.697	0.618	0.646	7.39
88)		n-Propylbenzene	0.704	0.674	0.668	0.676	0.579	0.595	0.772	0.737	0.650	0.673	9.15
89)	S	4-Bromofluorob...	1.266	1.207	1.355	1.351	1.357	1.351	1.329	1.327	1.193	1.304	5.01
90)		4-Ethyltoluene	2.636	2.511	2.509	2.546	2.241	2.259	2.892	2.751	2.358	2.522	8.62
91)		1,3,5-Trimethy...	2.186	2.086	2.107	2.126	1.949	2.118	2.392	2.270	2.026	2.140	6.10
92)		alpha-Methylst...	1.098	1.065	1.010	1.002	0.855	0.739	1.199	1.132	1.031	1.014	13.91
93)		tert-Butylbenzene	0.447	0.426	0.435	0.461	0.409	0.374	0.486	0.463	0.403	0.434	7.98
94)		1,2,4-Trimethy...	2.241	2.106	2.163	2.212	1.879	1.912	2.453	2.330	1.969	2.141	9.06
95)		1,3-Dichlorobe...	1.456	1.400	1.449	1.471	1.385	1.489	1.601	1.508	1.333	1.455	5.34
96)		Benzyl Chloride	2.011	1.960	1.805	1.770			2.161	1.950	1.881	1.934	6.84
97)		1,4-Dichlorobe...	1.433	1.383	1.410	1.439	1.362	1.476	1.564	1.477	1.331	1.431	4.91
98)		sec-Butylbenzene	0.568	0.551	0.553	0.568	0.521	0.479	0.620	0.585	0.534	0.553	7.26
99)		p-Isopropyltol...	0.646	0.610	0.618	0.632	0.503	0.492	0.709	0.659	0.574	0.605	11.76
100)		1,2-Dichlorobe...	1.375	1.331	1.375	1.403	1.314	1.403	1.508	1.429	1.281	1.380	4.90
101)		n-Butylbenzene	0.593	0.584	0.560	0.573	0.413	0.334	0.640	0.591	0.559	0.539	18.31
102)		Hexachloroethane	0.819	0.793	0.735	0.778	0.764	0.817	0.877	0.816	0.768	0.796	5.20
103)		1,2,4-Trichlor...	0.856	0.849	1.002	0.979	0.721	0.843	0.904	0.798	0.832	0.865	10.05

Initial Calibration Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: V5W419-ICC419
Lab FileID: 5W10673.D

```
104)     Naphthalene       1.806 1.772 2.239 2.153 1.002 1.451 1.900 1.646 1.729 1.744   21.13
105)     Hexachlorobuta... 0.849 0.811 1.152 1.276 1.144 1.322 0.944 0.859 0.811 1.019   20.17

106) I   Bromochloromethane... ----------------ISTD---------------------
107)     TVHC as equiv ... 4.241 4.280 4.399 5.093             4.770 4.299 4.478 4.509    6.96
 ---------------------------------------------------------------------------
 (#) = Out of Range

m5w419.M Fri Apr 03 14:40:21 2015 GCMS5W
```

Initial Calibration Verification

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: V5W419-ICV419
Lab FileID: 5W10679.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\5w10679.D Vial: 4
Acq On : 2 Apr 2015 3:35 pm Operator: mikel1
Sample : ICV419-10 Inst : GCMS5W
Misc : MS82329,v5w419,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\msdchem\1\METHODS\m5w419.M (RTE Integrator)
Title : TO-15 Full Scan Mode
Last Update : Fri Apr 03 14:39:01 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Bromochloromethane	1.000	1.000	0.0	116	0.00	8.58
2	1,1,1-Trifluoroethane		----------NA----------				
3	Freon 152A	0.619	0.543	12.3	97	0.00	3.91
4	Chlorodifluoromethane	0.236	0.222	5.9	97	0.00	3.94
5	Propene	0.719	0.626	12.9	99	0.00	3.98
6	Dichlorodifluoromethane	2.580	2.347	9.0	95	0.00	4.04
7	1-Chloro-1,1-difluoroetha		----------NA----------				
8	Chloromethane	0.836	0.751	10.2	95	0.00	4.18
9	Dichlorotetrafluoroethane	2.533	2.302	9.1	95	0.00	4.28
10	Vinyl Chloride	1.002	0.904	9.8	95	0.00	4.38
11	1,3-Butadiene	0.707	0.653	7.6	97	0.00	4.50
12	n-Butane	0.143	0.138	3.5	96	0.00	4.55
13	Bromomethane	1.022	0.888	13.1	95	0.00	4.75
14	Chloroethane	0.489	0.444	9.2	95	0.00	4.90
15	Dichlorofluoromethane	2.219	2.014	9.2	96	0.00	4.98
16	Acetonitrile	0.890	0.745	16.3	99	0.00	5.21
17	Freon 123	2.461	2.271	7.7	97	0.00	5.35
18	Freon 123A	1.274	1.113	12.6	96	0.00	5.41
19	Bromoethene	0.945	0.872	7.7	95	0.00	5.22
20	Trichlorofluoromethane	2.478	2.280	8.0	95	0.00	5.61
21	Acetone	0.469	0.412	12.2	96	0.00	5.45
22	Pentane	0.240	0.225	6.2	98	0.00	5.94
23	1,1-Dichloro-1-fluoroetha		----------NA----------				
24	Iodomethane	2.678	2.424	9.5	94	0.00	6.15
25	Isopropyl Alcohol	1.845	1.645	10.8	100	0.00	5.68
26	1,1-Dichloroethene	1.522	1.451	4.7	100	0.00	6.21
27	Freon 113	2.085	1.952	6.4	98	0.00	6.59
28	Methylene Chloride	0.928	0.839	9.6	98	0.00	6.33
29	Carbon Disulfide	2.959	2.781	6.0	97	0.00	6.64
30	Ethanol	0.473	0.393	16.9	99	0.00	5.01
31	Acrylonitrile	0.786	0.716	8.9	97	0.00	5.88
32	3-Chloropropene	0.438	0.436	0.5	97	0.00	6.45
33	trans-1,2-Dichloroethene	1.463	1.391	4.9	98	0.00	7.29
34	tert-Butyl Alcohol	2.325	2.150	7.5	98	0.00	6.26
35	Methyl tert-Butyl Ether	2.685	2.545	5.2	97	0.00	7.56
36	Vinyl Acetate	2.521	2.515	0.2	103	0.00	7.65
37	1,1-Dichloroethane	1.853	1.732	6.5	97	0.00	7.49
38	2-Butanone	0.520	0.469	9.8	98	0.00	7.93
39	Hexane	1.673	1.481	11.5	99	0.00	8.62
40	cis-1,2-Dichloroethene	1.397	1.325	5.2	99	0.00	8.39
41	Di-isopropyl Ether	3.572	3.537	1.0	101	0.00	8.62
42	Ethyl Acetate	0.364	0.342	6.0	98	0.00	8.65

Initial Calibration Verification

Job Number: JB94203 **Sample:** V5W419-ICV419
Account: PTCNJB PT Consultants **Lab FileID:** 5W10679.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

43		Methyl Acrylate	2.057	1.920	6.7	101	0.00	8.64
44		Chloroform	2.249	2.113	6.0	97	0.00	8.72
45		2,4-Dimethylpentane	1.805	1.734	3.9	98	0.00	9.62
46		Tetrahydrofuran	0.507	0.464	8.5	96	0.00	9.19
47		1,1,1-Trichloroethane	2.099	1.944	7.4	96	0.00	9.84
48		1,2-Dichloroethane	1.317	1.276	3.1	98	0.00	9.55
49		Benzene	3.314	3.062	7.6	96	0.00	10.38
50		Carbon Tetrachloride	2.205	2.042	7.4	96	0.00	10.56
51		Cyclohexane	1.579	1.481	6.2	98	0.00	10.70
52		2,3-Dimethylpentane	0.658	0.642	2.4	97	0.00	10.99
53	I	1,4-Difluorobenzene	1.000	1.000	0.0	115	0.00	10.81
54		2,2,4-Trimethylpentane	1.334	1.279	4.1	99	0.00	11.69
55		Heptane	0.266	0.254	4.5	96	0.00	12.03
56		Trichloroethene	0.397	0.364	8.3	96	0.00	11.65
57		1,2-Dichloropropane	0.327	0.309	5.5	98	0.00	11.36
58		Dibromomethane	0.358	0.315	12.0	93	0.00	11.33
59		Ethyl Acrylate	0.666	0.616	7.5	100	0.00	11.38
60		Methyl Methacrylate	0.308	0.285	7.5	99	0.00	11.92
61		1,4-Dioxane	0.224	0.194	13.4	99	0.00	11.67
62		Bromodichloromethane	0.653	0.616	5.7	97	0.00	11.60
63		cis-1,3-Dichloropropene	0.510	0.479	6.1	96	0.00	12.74
64		4-Methyl-2-pentanone	0.267	0.252	5.6	99	0.00	12.80
65		trans-1,3-Dichloropropene	0.457	0.437	4.4	97	0.00	13.41
66		Toluene	1.048	0.957	8.7	96	0.00	14.00
67		1,1,2-Trichloroethane	0.366	0.339	7.4	95	0.00	13.64
68		2-Hexanone	0.392	0.355	9.4	100	0.00	14.38
69		Ethyl Methacrylate	0.548	0.510	6.9	99	0.00	14.39
70		Dibromochloromethane	0.677	0.614	9.3	94	0.00	14.56
71		Tetrachloroethene	0.510	0.450	11.8	92	0.00	15.53
72		1,2-Dibromoethane	0.600	0.549	8.5	94	0.00	14.88
73		Octane	0.650	0.607	6.6	98	0.00	15.35
74		1,1,1,2-Tetrachloroethane	0.440	0.408	7.3	95	0.00	16.45
75	I	Chlorobenzene-d5	1.000	1.000	0.0	112	0.00	16.41
76		Chlorobenzene	1.498	1.356	9.5	94	0.00	16.47
77		Ethylbenzene	2.431	2.274	6.5	95	0.00	17.02
78		m,p-Xylene	1.950	1.878	3.7	102	0.00	17.29
79		Styrene	1.352	1.317	2.6	93	0.00	17.81
80		Nonane	1.233	1.136	7.9	94	0.00	18.35
81		o-Xylene	1.898	1.789	5.7	95	0.00	17.97
82		Bromoform	1.182	1.102	6.8	93	0.00	17.37
83		1,1,2,2-Tetrachloroethane	1.577	1.472	6.7	96	0.00	17.97
84		1,2,3-Trichloropropane	1.090	1.018	6.6	95	0.00	18.16
85		Isopropylbenzene	2.610	2.443	6.4	94	0.00	18.88
86		Bromobenzene	0.853	0.778	8.8	93	0.00	18.98
87		2-Chlorotoluene	0.646	0.596	7.7	92	0.00	19.55
88		n-Propylbenzene	0.673	0.640	4.9	93	0.00	19.62
89	S	4-Bromofluorobenzene	1.304	1.298	0.5	110	0.00	18.66
90		4-Ethyltoluene	2.522	2.416	4.2	94	0.00	19.83
91		1,3,5-Trimethylbenzene	2.140	1.990	7.0	93	0.00	19.94
92		alpha-Methylstyrene	1.014	1.013	0.1	95	0.00	20.16
93		tert-Butylbenzene	0.434	0.411	5.3	95	0.00	20.49
94		1,2,4-Trimethylbenzene	2.141	2.084	2.7	95	0.00	20.50
95		1,3-Dichlorobenzene	1.455	1.312	9.8	92	0.00	20.69
96		Benzyl Chloride	1.934	1.793	7.3	93	0.00	20.68
97		1,4-Dichlorobenzene	1.431	1.295	9.5	93	0.00	20.78
98		sec-Butylbenzene	0.553	0.514	7.1	93	0.00	20.86
99		p-Isopropyltoluene	0.605	0.586	3.1	93	0.00	21.08
100		1,2-Dichlorobenzene	1.380	1.246	9.7	93	0.00	21.23

Initial Calibration Verification

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: V5W419-ICV419
Lab FileID: 5W10679.D

101		n-Butylbenzene	0.539	0.530	1.7	93	0.00	21.63
102		Hexachloroethane	0.796	0.717	9.9	92	0.00	22.09
103		1,2,4-Trichlorobenzene	0.865	0.789	8.8	98	0.00	23.38
104		Naphthalene	1.744	1.671	4.2	99	0.00	23.51
105		Hexachlorobutadiene	1.019	0.762	25.2	91	0.00	23.96
106	I	Bromochloromethane (A)	1.000	1.000	0.0	116	0.00	8.58
107		TVHC as equiv Pentane	4.509	3.938	12.7	96	0.00	5.94

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5w10673.D m5w419.M Fri Apr 03 14:40:07 2015 GCMS5W

6.9.5

6

Continuing Calibration Summary

Job Number: JB94203 **Sample:** V5W449-CC419
Account: PTCNJB PT Consultants **Lab FileID:** 5W11426.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\5w11426.D Vial: 2
Acq On : 8 May 2015 7:27 am Operator: mikel1
Sample : CC419-10 Inst : GCMS5W
Misc : MS84579,v5w449,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\msdchem\1\METHODS\m5w419.M (RTE Integrator)
Title : TO-15 Full Scan Mode
Last Update : Fri Apr 03 14:39:01 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Bromochloromethane	1.000	1.000	0.0	113	-0.02	8.55
2	1,1,1-Trifluoroethane		----------NA----------				
3	Freon 152A	0.619	0.599	3.2	103	0.00	3.90
4	Chlorodifluoromethane	0.236	0.232	1.7	99	0.00	3.94
5	Propene	0.719	0.683	5.0	105	0.00	3.97
6	Dichlorodifluoromethane	2.580	2.551	1.1	100	0.00	4.03
7	1-Chloro-1,1-difluoroetha		----------NA----------				
8	Chloromethane	0.836	0.929	-11.1	114	0.00	4.18
9	Dichlorotetrafluoroethane	2.533	2.749	-8.5	110	0.00	4.26
10	Vinyl Chloride	1.002	1.108	-10.6	113	0.00	4.37
11	1,3-Butadiene	0.707	0.762	-7.8	109	0.00	4.49
12	n-Butane	0.143	0.160	-11.9	108	0.00	4.54
13	Bromomethane	1.022	1.057	-3.4	109	0.00	4.73
14	Chloroethane	0.489	0.531	-8.6	110	0.00	4.89
15	Dichlorofluoromethane	2.219	2.414	-8.8	111	0.00	4.97
16	Acetonitrile	0.890	0.906	-1.8	117	-0.01	5.19
17	Freon 123	2.461	2.638	-7.2	109	-0.01	5.33
18	Freon 123A	1.274	1.282	-0.6	107	-0.01	5.39
19	Bromoethene	0.945	0.985	-4.2	104	-0.01	5.21
20	Trichlorofluoromethane	2.478	2.600	-4.9	106	-0.01	5.59
21	Acetone	0.469	0.494	-5.3	112	-0.01	5.43
22	Pentane	0.240	0.238	0.8	100	-0.01	5.92
23	1,1-Dichloro-1-fluoroetha		----------NA----------				
24	Iodomethane	2.678	2.589	3.3	98	-0.02	6.12
25	Isopropyl Alcohol	1.845	1.926	-4.4	113	-0.02	5.66
26	1,1-Dichloroethene	1.522	1.497	1.6	100	-0.01	6.20
27	Freon 113	2.085	2.061	1.2	100	-0.02	6.57
28	Methylene Chloride	0.928	0.903	2.7	102	-0.02	6.31
29	Carbon Disulfide	2.959	3.045	-2.9	103	-0.02	6.61
30	Ethanol	0.473	0.435	8.0	106	-0.01	4.99
31	Acrylonitrile	0.786	0.779	0.9	103	-0.02	5.86
32	3-Chloropropene	0.438	0.446	-1.8	97	-0.02	6.43
33	trans-1,2-Dichloroethene	1.463	1.442	1.4	99	-0.02	7.26
34	tert-Butyl Alcohol	2.325	2.213	4.8	98	-0.02	6.23
35	Methyl tert-Butyl Ether	2.685	2.517	6.3	93	-0.02	7.54
36	Vinyl Acetate	2.521	2.645	-4.9	105	-0.02	7.62
37	1,1-Dichloroethane	1.853	1.838	0.8	100	-0.02	7.47
38	2-Butanone	0.520	0.474	8.8	96	-0.02	7.90
39	Hexane	1.673	1.571	6.1	102	-0.02	8.59
40	cis-1,2-Dichloroethene	1.397	1.351	3.3	98	-0.02	8.36
41	Di-isopropyl Ether	3.572	3.807	-6.6	106	-0.02	8.59
42	Ethyl Acetate	0.364	0.363	0.3	101	-0.03	8.62

Continuing Calibration Summary

Job Number: JB94203 **Sample:** V5W449-CC419
Account: PTCNJB PT Consultants **Lab FileID:** 5W11426.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

43		Methyl Acrylate	2.057	2.028	1.4	103	-0.02	8.61
44		Chloroform	2.249	2.226	1.0	99	-0.02	8.69
45		2,4-Dimethylpentane	1.805	1.785	1.1	98	-0.02	9.59
46		Tetrahydrofuran	0.507	0.464	8.5	94	-0.02	9.16
47		1,1,1-Trichloroethane	2.099	2.009	4.3	97	-0.03	9.81
48		1,2-Dichloroethane	1.317	1.321	-0.3	99	-0.02	9.52
49		Benzene	3.314	3.106	6.3	94	-0.03	10.35
50		Carbon Tetrachloride	2.205	2.144	2.8	98	-0.02	10.53
51		Cyclohexane	1.579	1.499	5.1	97	-0.03	10.67
52		2,3-Dimethylpentane	0.658	0.638	3.0	94	-0.03	10.96
53	I	1,4-Difluorobenzene	1.000	1.000	0.0	105	-0.02	10.78
54		2,2,4-Trimethylpentane	1.334	1.451	-8.8	102	-0.03	11.66
55		Heptane	0.266	0.278	-4.5	96	-0.03	12.00
56		Trichloroethene	0.397	0.401	-1.0	96	-0.03	11.62
57		1,2-Dichloropropane	0.327	0.349	-6.7	100	-0.03	11.33
58		Dibromomethane	0.358	0.366	-2.2	98	-0.03	11.30
59		Ethyl Acrylate	0.666	0.670	-0.6	99	-0.03	11.35
60		Methyl Methacrylate	0.308	0.298	3.2	94	-0.03	11.89
61		1,4-Dioxane	0.224	0.212	5.4	99	-0.03	11.64
62		Bromodichloromethane	0.653	0.685	-4.9	98	-0.04	11.57
63		cis-1,3-Dichloropropene	0.510	0.509	0.2	93	-0.03	12.71
64		4-Methyl-2-pentanone	0.267	0.280	-4.9	100	-0.03	12.76
65		trans-1,3-Dichloropropene	0.457	0.462	-1.1	93	-0.03	13.38
66		Toluene	1.048	1.043	0.5	95	-0.03	13.97
67		1,1,2-Trichloroethane	0.366	0.377	-3.0	96	-0.03	13.60
68		2-Hexanone	0.392	0.397	-1.3	101	-0.03	14.34
69		Ethyl Methacrylate	0.548	0.558	-1.8	99	-0.03	14.36
70		Dibromochloromethane	0.677	0.699	-3.2	98	-0.02	14.53
71		Tetrachloroethene	0.510	0.521	-2.2	97	-0.03	15.50
72		1,2-Dibromoethane	0.600	0.604	-0.7	94	-0.03	14.85
73		Octane	0.650	0.701	-7.8	103	-0.03	15.32
74		1,1,1,2-Tetrachloroethane	0.440	0.459	-4.3	97	-0.03	16.42
75	I	Chlorobenzene-d5	1.000	1.000	0.0	102	-0.03	16.38
76		Chlorobenzene	1.498	1.513	-1.0	95	-0.03	16.44
77		Ethylbenzene	2.431	2.446	-0.6	92	-0.03	16.99
78		m,p-Xylene	1.950	1.938	0.6	95	-0.03	17.26
79		Styrene	1.352	1.396	-3.3	89	-0.03	17.78
80		Nonane	1.233	1.389	-12.7	104	-0.03	18.32
81		o-Xylene	1.898	1.990	-4.8	95	-0.04	17.94
82		Bromoform	1.182	1.291	-9.2	98	-0.03	17.34
83		1,1,2,2-Tetrachloroethane	1.577	1.719	-9.0	101	-0.03	17.93
84		1,2,3-Trichloropropane	1.090	1.166	-7.0	99	-0.04	18.13
85		Isopropylbenzene	2.610	2.725	-4.4	95	-0.03	18.84
86		Bromobenzene	0.853	0.894	-4.8	96	-0.03	18.95
87		2-Chlorotoluene	0.646	0.669	-3.6	93	-0.03	19.53
88		n-Propylbenzene	0.673	0.727	-8.0	96	-0.02	19.59
89	S	4-Bromofluorobenzene	1.304	1.287	1.3	98	-0.03	18.63
90		4-Ethyltoluene	2.522	2.677	-6.1	94	-0.03	19.80
91		1,3,5-Trimethylbenzene	2.140	2.242	-4.8	95	-0.02	19.92
92		alpha-Methylstyrene	1.014	1.087	-7.2	92	-0.02	20.14
93		tert-Butylbenzene	0.434	0.464	-6.9	97	-0.02	20.47
94		1,2,4-Trimethylbenzene	2.141	2.384	-11.3	99	-0.02	20.47
95		1,3-Dichlorobenzene	1.455	1.558	-7.1	99	-0.02	20.66
96		Benzyl Chloride	1.934	2.151	-11.2	101	-0.02	20.65
97		1,4-Dichlorobenzene	1.431	1.514	-5.8	98	-0.02	20.76
98		sec-Butylbenzene	0.553	0.584	-5.6	96	-0.02	20.84
99		p-Isopropyltoluene	0.605	0.665	-9.9	95	-0.02	21.06
100		1,2-Dichlorobenzene	1.380	1.450	-5.1	98	-0.02	21.20

Continuing Calibration Summary

Job Number: JB94203 **Sample:** V5W449-CC419
Account: PTCNJB PT Consultants **Lab FileID:** 5W11426.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

101		n-Butylbenzene	0.539	0.594	-10.2	94	-0.02	21.61
102		Hexachloroethane	0.796	0.931	-17.0	108	-0.02	22.07
103		1,2,4-Trichlorobenzene	0.865	0.860	0.6	97	-0.02	23.36
104		Naphthalene	1.744	1.768	-1.4	95	-0.02	23.49
105		Hexachlorobutadiene	1.019	0.910	10.7	98	-0.02	23.94
106	I	Bromochloromethane (A)	1.000	1.000	0.0	113	-0.02	8.55
107		TVHC as equiv Pentane	4.509	4.380	2.9	103	-0.01	5.92

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5w10673.D m5w419.M Fri May 08 10:24:07 2015 GCMS5W

Continuing Calibration Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Sample: V5W450-CC419
Lab FileID: 5W11456.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\5w11456.D Vial: 2
Acq On : 9 May 2015 8:16 am Operator: mikel1
Sample : CC419-10 Inst : GCMS5W
Misc : MS84855,v5w450,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\msdchem\1\METHODS\m5w419.M (RTE Integrator)
Title : TO-15 Full Scan Mode
Last Update : Fri Apr 03 14:39:01 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Bromochloromethane	1.000	1.000	0.0	114	-0.02	8.55
2	1,1,1-Trifluoroethane		----------NA----------				
3	Freon 152A	0.619	0.721	-16.5	126	0.01	3.91
4	Chlorodifluoromethane	0.236	0.276	-16.9	119	0.00	3.95
5	Propene	0.719	0.875	-21.7	136	0.01	3.98
6	Dichlorodifluoromethane	2.580	2.984	-15.7	119	0.00	4.04
7	1-Chloro-1,1-difluoroetha		----------NA----------				
8	Chloromethane	0.836	1.059	-26.7	131	0.00	4.19
9	Dichlorotetrafluoroethane	2.533	3.102	-22.5	126	0.00	4.28
10	Vinyl Chloride	1.002	1.243	-24.1	128	0.01	4.39
11	1,3-Butadiene	0.707	0.860	-21.6	125	0.00	4.50
12	n-Butane	0.143	0.180	-25.9	124	0.00	4.55
13	Bromomethane	1.022	1.201	-17.5	126	0.00	4.75
14	Chloroethane	0.489	0.580	-18.6	122	0.00	4.90
15	Dichlorofluoromethane	2.219	2.602	-17.3	122	0.00	4.97
16	Acetonitrile	0.890	0.928	-4.3	121	0.00	5.20
17	Freon 123	2.461	2.932	-19.1	123	0.00	5.35
18	Freon 123A	1.274	1.469	-15.3	124	0.00	5.40
19	Bromoethene	0.945	1.146	-21.3	123	0.00	5.22
20	Trichlorofluoromethane	2.478	2.829	-14.2	116	0.00	5.60
21	Acetone	0.469	0.529	-12.8	122	0.00	5.44
22	Pentane	0.240	0.287	-19.6	123	0.00	5.93
23	1,1-Dichloro-1-fluoroetha		----------NA----------				
24	Iodomethane	2.678	2.965	-10.7	114	0.00	6.13
25	Isopropyl Alcohol	1.845	2.074	-12.4	124	-0.01	5.66
26	1,1-Dichloroethene	1.522	1.778	-16.8	120	0.00	6.21
27	Freon 113	2.085	2.306	-10.6	114	-0.01	6.58
28	Methylene Chloride	0.928	1.017	-9.6	116	-0.01	6.32
29	Carbon Disulfide	2.959	3.422	-15.6	118	-0.01	6.62
30	Ethanol	0.473	0.470	0.6	117	0.00	5.00
31	Acrylonitrile	0.786	0.917	-16.7	123	0.00	5.87
32	3-Chloropropene	0.438	0.524	-19.6	115	-0.01	6.43
33	trans-1,2-Dichloroethene	1.463	1.715	-17.2	119	-0.01	7.27
34	tert-Butyl Alcohol	2.325	2.698	-16.0	122	-0.01	6.24
35	Methyl tert-Butyl Ether	2.685	3.015	-12.3	113	-0.02	7.54
36	Vinyl Acetate	2.521	3.246	-28.8	130	-0.02	7.63
37	1,1-Dichloroethane	1.853	2.126	-14.7	118	-0.02	7.47
38	2-Butanone	0.520	0.571	-9.8	117	-0.02	7.90
39	Hexane	1.673	1.842	-10.1	121	-0.02	8.60
40	cis-1,2-Dichloroethene	1.397	1.634	-17.0	120	-0.02	8.37
41	Di-isopropyl Ether	3.572	4.555	-27.5	128	-0.02	8.60
42	Ethyl Acetate	0.364	0.430	-18.1	121	-0.02	8.62

Continuing Calibration Summary

Job Number: JB94203 **Sample:** V5W450-CC419
Account: PTCNJB PT Consultants **Lab FileID:** 5W11456.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

43		Methyl Acrylate	2.057	2.384	-15.9	123	-0.02	8.61
44		Chloroform	2.249	2.480	-10.3	112	-0.02	8.70
45		2,4-Dimethylpentane	1.805	2.136	-18.3	119	-0.02	9.60
46		Tetrahydrofuran	0.507	0.559	-10.3	114	-0.02	9.16
47		1,1,1-Trichloroethane	2.099	2.213	-5.4	108	-0.02	9.82
48		1,2-Dichloroethane	1.317	1.514	-15.0	115	-0.02	9.52
49		Benzene	3.314	3.631	-9.6	112	-0.02	10.36
50		Carbon Tetrachloride	2.205	2.353	-6.7	109	-0.02	10.53
51		Cyclohexane	1.579	1.831	-16.0	120	-0.02	10.67
52		2,3-Dimethylpentane	0.658	0.758	-15.2	113	-0.03	10.96
53	I	1,4-Difluorobenzene	1.000	1.000	0.0	107	-0.02	10.78
54		2,2,4-Trimethylpentane	1.334	1.715	-28.6	122	-0.02	11.67
55		Heptane	0.266	0.327	-22.9	115	-0.02	12.00
56		Trichloroethene	0.397	0.452	-13.9	110	-0.02	11.63
57		1,2-Dichloropropane	0.327	0.412	-26.0	120	-0.02	11.33
58		Dibromomethane	0.358	0.404	-12.8	111	-0.02	11.30
59		Ethyl Acrylate	0.666	0.815	-22.4	122	-0.03	11.35
60		Methyl Methacrylate	0.308	0.360	-16.9	116	-0.02	11.89
61		1,4-Dioxane	0.224	0.247	-10.3	117	-0.03	11.64
62		Bromodichloromethane	0.653	0.774	-18.5	112	-0.03	11.57
63		cis-1,3-Dichloropropene	0.510	0.604	-18.4	112	-0.03	12.71
64		4-Methyl-2-pentanone	0.267	0.337	-26.2	123	-0.02	12.77
65		trans-1,3-Dichloropropene	0.457	0.547	-19.7	112	-0.03	13.38
66		Toluene	1.048	1.181	-12.7	109	-0.03	13.97
67		1,1,2-Trichloroethane	0.366	0.429	-17.2	112	-0.03	13.60
68		2-Hexanone	0.392	0.475	-21.2	123	-0.03	14.34
69		Ethyl Methacrylate	0.548	0.650	-18.6	117	-0.03	14.36
70		Dibromochloromethane	0.677	0.769	-13.6	109	-0.02	14.53
71		Tetrachloroethene	0.510	0.570	-11.8	108	-0.03	15.49
72		1,2-Dibromoethane	0.600	0.688	-14.7	109	-0.03	14.85
73		Octane	0.650	0.851	-30.9#	127	-0.03	15.32
74		1,1,1,2-Tetrachloroethane	0.440	0.499	-13.4	107	-0.03	16.42
75	I	Chlorobenzene-d5	1.000	1.000	0.0	107	-0.03	16.38
76		Chlorobenzene	1.498	1.626	-8.5	108	-0.03	16.44
77		Ethylbenzene	2.431	2.737	-12.6	108	-0.03	16.99
78		m,p-Xylene	1.950	2.129	-9.2	109	-0.03	17.26
79		Styrene	1.352	1.564	-15.7	105	-0.03	17.78
80		Nonane	1.233	1.553	-26.0	122	-0.03	18.32
81		o-Xylene	1.898	2.192	-15.5	110	-0.04	17.94
82		Bromoform	1.182	1.377	-16.5	110	-0.03	17.34
83		1,1,2,2-Tetrachloroethane	1.577	1.879	-19.2	116	-0.03	17.93
84		1,2,3-Trichloropropane	1.090	1.290	-18.3	115	-0.03	18.13
85		Isopropylbenzene	2.610	2.966	-13.6	109	-0.03	18.84
86		Bromobenzene	0.853	0.960	-12.5	109	-0.03	18.95
87		2-Chlorotoluene	0.646	0.724	-12.1	106	-0.03	19.53
88		n-Propylbenzene	0.673	0.767	-14.0	106	-0.02	19.59
89	S	4-Bromofluorobenzene	1.304	1.255	3.8	101	-0.04	18.63
90		4-Ethyltoluene	2.522	2.933	-16.3	108	-0.03	19.80
91		1,3,5-Trimethylbenzene	2.140	2.416	-12.9	108	-0.02	19.92
92		alpha-Methylstyrene	1.014	1.206	-18.9	107	-0.03	20.13
93		tert-Butylbenzene	0.434	0.496	-14.3	109	-0.02	20.46
94		1,2,4-Trimethylbenzene	2.141	2.549	-19.1	111	-0.02	20.47
95		1,3-Dichlorobenzene	1.455	1.635	-12.4	109	-0.02	20.66
96		Benzyl Chloride	1.934	2.312	-19.5	114	-0.03	20.65
97		1,4-Dichlorobenzene	1.431	1.607	-12.3	110	-0.02	20.76
98		sec-Butylbenzene	0.553	0.622	-12.5	107	-0.02	20.84
99		p-Isopropyltoluene	0.605	0.725	-19.8	109	-0.02	21.06
100		1,2-Dichlorobenzene	1.380	1.555	-12.7	110	-0.02	21.20

Continuing Calibration Summary

Job Number: JB94203 **Sample:** V5W450-CC419
Account: PTCNJB PT Consultants **Lab FileID:** 5W11456.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

101		n-Butylbenzene	0.539	0.643	-19.3	107	-0.02	21.61
102		Hexachloroethane	0.796	0.964	-21.1	117	-0.02	22.07
103		1,2,4-Trichlorobenzene	0.865	0.951	-9.9	112	-0.02	23.36
104		Naphthalene	1.744	2.009	-15.2	113	-0.02	23.49
105		Hexachlorobutadiene	1.019	0.982	3.6	111	-0.02	23.94
106	I	Bromochloromethane (A)	1.000	1.000	0.0	114	-0.02	8.55
107		TVHC as equiv Pentane	4.509	5.245	-16.3	126	0.00	5.93

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5w10673.D m5w419.M Sat May 09 13:59:35 2015 GCMS5W

6.9.7

6

Continuing Calibration Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Sample: V5W451-CC419
Lab FileID: 5W11479.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\5w11479.D Vial: 2
Acq On : 11 May 2015 8:27 am Operator: mikel1
Sample : CC419-10 Inst : GCMS5W
Misc : MS84920,v5w451,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\msdchem\1\METHODS\m5w419.M (RTE Integrator)
Title : TO-15 Full Scan Mode
Last Update : Fri Apr 03 14:39:01 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Bromochloromethane	1.000	1.000	0.0	107	-0.02	8.56
2	1,1,1-Trifluoroethane		----------NA----------				
3	Freon 152A	0.619	0.602	2.7	99	0.01	3.91
4	Chlorodifluoromethane	0.236	0.236	0.0	95	0.01	3.96
5	Propene	0.719	0.673	6.4	98	0.01	3.98
6	Dichlorodifluoromethane	2.580	2.594	-0.5	97	0.01	4.05
7	1-Chloro-1,1-difluoroetha		----------NA----------				
8	Chloromethane	0.836	0.925	-10.6	108	0.00	4.19
9	Dichlorotetrafluoroethane	2.533	2.842	-12.2	108	0.00	4.28
10	Vinyl Chloride	1.002	1.118	-11.6	108	0.01	4.39
11	1,3-Butadiene	0.707	0.768	-8.6	105	0.00	4.50
12	n-Butane	0.143	0.162	-13.3	105	0.00	4.55
13	Bromomethane	1.022	1.102	-7.8	108	0.00	4.75
14	Chloroethane	0.489	0.543	-11.0	107	0.00	4.90
15	Dichlorofluoromethane	2.219	2.463	-11.0	108	0.00	4.98
16	Acetonitrile	0.890	0.871	2.1	107	0.00	5.20
17	Freon 123	2.461	2.751	-11.8	108	0.00	5.35
18	Freon 123A	1.274	1.362	-6.9	108	0.00	5.40
19	Bromoethene	0.945	1.067	-12.9	107	0.00	5.22
20	Trichlorofluoromethane	2.478	2.727	-10.0	105	0.00	5.60
21	Acetone	0.469	0.497	-6.0	107	0.00	5.44
22	Pentane	0.240	0.241	-0.4	96	0.00	5.93
23	1,1-Dichloro-1-fluoroetha		----------NA----------				
24	Iodomethane	2.678	2.747	-2.6	99	0.00	6.13
25	Isopropyl Alcohol	1.845	1.895	-2.7	106	0.00	5.67
26	1,1-Dichloroethene	1.522	1.519	0.2	96	0.00	6.21
27	Freon 113	2.085	2.106	-1.0	97	-0.01	6.58
28	Methylene Chloride	0.928	0.921	0.8	99	-0.01	6.32
29	Carbon Disulfide	2.959	3.056	-3.3	98	-0.01	6.62
30	Ethanol	0.473	0.438	7.4	102	0.00	5.00
31	Acrylonitrile	0.786	0.756	3.8	95	0.00	5.87
32	3-Chloropropene	0.438	0.462	-5.5	95	-0.01	6.43
33	trans-1,2-Dichloroethene	1.463	1.450	0.9	94	-0.01	7.27
34	tert-Butyl Alcohol	2.325	2.261	2.8	95	-0.01	6.25
35	Methyl tert-Butyl Ether	2.685	2.608	2.9	92	-0.02	7.54
36	Vinyl Acetate	2.521	2.580	-2.3	97	-0.01	7.63
37	1,1-Dichloroethane	1.853	1.832	1.1	95	-0.02	7.47
38	2-Butanone	0.520	0.487	6.3	93	-0.02	7.90
39	Hexane	1.673	1.523	9.0	94	-0.02	8.60
40	cis-1,2-Dichloroethene	1.397	1.365	2.3	94	-0.02	8.37
41	Di-isopropyl Ether	3.572	3.643	-2.0	96	-0.02	8.60
42	Ethyl Acetate	0.364	0.359	1.4	95	-0.02	8.62

Continuing Calibration Summary

Job Number: JB94203 **Sample:** V5W451-CC419
Account: PTCNJB PT Consultants **Lab FileID:** 5W11479.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

43		Methyl Acrylate	2.057	1.972	4.1	95	-0.02	8.61
44		Chloroform	2.249	2.235	0.6	95	-0.02	8.70
45		2,4-Dimethylpentane	1.805	1.767	2.1	92	-0.02	9.60
46		Tetrahydrofuran	0.507	0.472	6.9	90	-0.02	9.16
47		1,1,1-Trichloroethane	2.099	2.051	2.3	94	-0.02	9.82
48		1,2-Dichloroethane	1.317	1.321	-0.3	94	-0.02	9.53
49		Benzene	3.314	3.165	4.5	91	-0.02	10.36
50		Carbon Tetrachloride	2.205	2.221	-0.7	96	-0.02	10.53
51		Cyclohexane	1.579	1.510	4.4	92	-0.02	10.67
52		2,3-Dimethylpentane	0.658	0.648	1.5	91	-0.02	10.97
53	I	1,4-Difluorobenzene	1.000	1.000	0.0	99	-0.02	10.78
54		2,2,4-Trimethylpentane	1.334	1.433	-7.4	95	-0.02	11.67
55		Heptane	0.266	0.276	-3.8	90	-0.03	12.00
56		Trichloroethene	0.397	0.412	-3.8	94	-0.03	11.62
57		1,2-Dichloropropane	0.327	0.346	-5.8	94	-0.02	11.33
58		Dibromomethane	0.358	0.387	-8.1	99	-0.02	11.30
59		Ethyl Acrylate	0.666	0.662	0.6	93	-0.03	11.35
60		Methyl Methacrylate	0.308	0.298	3.2	89	-0.02	11.89
61		1,4-Dioxane	0.224	0.218	2.7	96	-0.03	11.64
62		Bromodichloromethane	0.653	0.691	-5.8	94	-0.03	11.57
63		cis-1,3-Dichloropropene	0.510	0.521	-2.2	90	-0.03	12.71
64		4-Methyl-2-pentanone	0.267	0.276	-3.4	93	-0.03	12.76
65		trans-1,3-Dichloropropene	0.457	0.475	-3.9	90	-0.03	13.38
66		Toluene	1.048	1.060	-1.1	91	-0.03	13.97
67		1,1,2-Trichloroethane	0.366	0.386	-5.5	93	-0.03	13.60
68		2-Hexanone	0.392	0.390	0.5	94	-0.03	14.34
69		Ethyl Methacrylate	0.548	0.560	-2.2	94	-0.03	14.36
70		Dibromochloromethane	0.677	0.730	-7.8	97	-0.03	14.52
71		Tetrachloroethene	0.510	0.552	-8.2	98	-0.03	15.49
72		1,2-Dibromoethane	0.600	0.620	-3.3	92	-0.03	14.85
73		Octane	0.650	0.673	-3.5	93	-0.03	15.32
74		1,1,1,2-Tetrachloroethane	0.440	0.478	-8.6	96	-0.03	16.42
75	I	Chlorobenzene-d5	1.000	1.000	0.0	94	-0.03	16.38
76		Chlorobenzene	1.498	1.613	-7.7	94	-0.03	16.44
77		Ethylbenzene	2.431	2.574	-5.9	90	-0.04	16.98
78		m,p-Xylene	1.950	2.035	-4.4	92	-0.04	17.26
79		Styrene	1.352	1.501	-11.0	89	-0.04	17.78
80		Nonane	1.233	1.356	-10.0	94	-0.03	18.32
81		o-Xylene	1.898	2.106	-11.0	93	-0.04	17.94
82		Bromoform	1.182	1.409	-19.2	99	-0.03	17.34
83		1,1,2,2-Tetrachloroethane	1.577	1.771	-12.3	96	-0.03	17.93
84		1,2,3-Trichloropropane	1.090	1.198	-9.9	94	-0.04	18.13
85		Isopropylbenzene	2.610	2.876	-10.2	93	-0.03	18.84
86		Bromobenzene	0.853	0.977	-14.5	97	-0.03	18.95
87		2-Chlorotoluene	0.646	0.712	-10.2	92	-0.04	19.52
88		n-Propylbenzene	0.673	0.770	-14.4	94	-0.03	19.59
89	S	4-Bromofluorobenzene	1.304	1.288	1.2	91	-0.04	18.63
90		4-Ethyltoluene	2.522	2.869	-13.8	93	-0.03	19.80
91		1,3,5-Trimethylbenzene	2.140	2.357	-10.1	92	-0.03	19.91
92		alpha-Methylstyrene	1.014	1.185	-16.9	93	-0.03	20.13
93		tert-Butylbenzene	0.434	0.505	-16.4	98	-0.02	20.46
94		1,2,4-Trimethylbenzene	2.141	2.523	-17.8	96	-0.02	20.47
95		1,3-Dichlorobenzene	1.455	1.660	-14.1	97	-0.03	20.66
96		Benzyl Chloride	1.934	2.185	-13.0	95	-0.03	20.65
97		1,4-Dichlorobenzene	1.431	1.623	-13.4	97	-0.02	20.76
98		sec-Butylbenzene	0.553	0.629	-13.7	95	-0.03	20.83
99		p-Isopropyltoluene	0.605	0.729	-20.5	96	-0.03	21.05
100		1,2-Dichlorobenzene	1.380	1.578	-14.3	98	-0.02	21.20

Continuing Calibration Summary

Job Number: JB94203 **Sample:** V5W451-CC419
Account: PTCNJB PT Consultants **Lab FileID:** 5W11479.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

101		n-Butylbenzene	0.539	0.643	-19.3	94	-0.02	21.61
102		Hexachloroethane	0.796	1.016	-27.6	109	-0.02	22.07
103		1,2,4-Trichlorobenzene	0.865	0.933	-7.9	97	-0.02	23.36
104		Naphthalene	1.744	1.871	-7.3	92	-0.02	23.48
105		Hexachlorobutadiene	1.019	1.010	0.9	100	-0.02	23.94
106	I	Bromochloromethane (A)	1.000	1.000	0.0	107	-0.02	8.56
107		TVHC as equiv Pentane	4.509	4.258	5.6	96	0.00	5.93

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5w10673.D m5w419.M Tue May 12 07:02:05 2015 GCMS5W

6.9.8

6

Continuing Calibration Summary

Job Number: JB94203 **Sample:** V5W452-CC419
Account: PTCNJB PT Consultants **Lab FileID:** 5W11506.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\5w11506.D Vial: 2
Acq On : 12 May 2015 9:14 am Operator: mikel1
Sample : CC419-10 Inst : GCMS5W
Misc : MS84578,v5w452,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\msdchem\1\METHODS\m5w419.M (RTE Integrator)
Title : TO-15 Full Scan Mode
Last Update : Fri Apr 03 14:39:01 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Bromochloromethane	1.000	1.000	0.0	98	-0.02	8.55
2	1,1,1-Trifluoroethane		----------NA----------				
3	Freon 152A	0.619	0.653	-5.5	98	0.00	3.91
4	Chlorodifluoromethane	0.236	0.256	-8.5	95	0.00	3.95
5	Propene	0.719	0.751	-4.5	101	0.00	3.98
6	Dichlorodifluoromethane	2.580	2.792	-8.2	96	0.00	4.04
7	1-Chloro-1,1-difluoroetha		----------NA----------				
8	Chloromethane	0.836	1.032	-23.4	110	0.00	4.19
9	Dichlorotetrafluoroethane	2.533	2.950	-16.5	103	0.00	4.28
10	Vinyl Chloride	1.002	1.184	-18.2	105	0.00	4.38
11	1,3-Butadiene	0.707	0.821	-16.1	103	0.00	4.50
12	n-Butane	0.143	0.174	-21.7	103	0.00	4.54
13	Bromomethane	1.022	1.132	-10.8	102	0.00	4.74
14	Chloroethane	0.489	0.571	-16.8	104	0.00	4.89
15	Dichlorofluoromethane	2.219	2.629	-18.5	106	0.00	4.97
16	Acetonitrile	0.890	1.002	-12.6	113	0.00	5.19
17	Freon 123	2.461	2.853	-15.9	103	0.00	5.34
18	Freon 123A	1.274	1.386	-8.8	101	0.00	5.39
19	Bromoethene	0.945	1.049	-11.0	97	0.00	5.21
20	Trichlorofluoromethane	2.478	2.824	-14.0	100	0.00	5.60
21	Acetone	0.469	0.542	-15.6	107	0.00	5.44
22	Pentane	0.240	0.255	-6.3	94	0.00	5.93
23	1,1-Dichloro-1-fluoroetha		----------NA----------				
24	Iodomethane	2.678	2.652	1.0	87	-0.01	6.13
25	Isopropyl Alcohol	1.845	2.057	-11.5	106	-0.01	5.66
26	1,1-Dichloroethene	1.522	1.616	-6.2	94	0.00	6.20
27	Freon 113	2.085	2.186	-4.8	93	-0.01	6.58
28	Methylene Chloride	0.928	0.964	-3.9	95	-0.02	6.31
29	Carbon Disulfide	2.959	3.244	-9.6	96	-0.02	6.62
30	Ethanol	0.473	0.476	-0.6	102	0.00	5.00
31	Acrylonitrile	0.786	0.810	-3.1	94	-0.01	5.87
32	3-Chloropropene	0.438	0.461	-5.3	87	-0.01	6.43
33	trans-1,2-Dichloroethene	1.463	1.506	-2.9	90	-0.02	7.26
34	tert-Butyl Alcohol	2.325	2.323	0.1	90	-0.02	6.24
35	Methyl tert-Butyl Ether	2.685	2.632	2.0	85	-0.02	7.54
36	Vinyl Acetate	2.521	2.820	-11.9	97	-0.02	7.63
37	1,1-Dichloroethane	1.853	1.970	-6.3	94	-0.02	7.47
38	2-Butanone	0.520	0.501	3.7	88	-0.02	7.90
39	Hexane	1.673	1.675	-0.1	95	-0.02	8.59
40	cis-1,2-Dichloroethene	1.397	1.415	-1.3	89	-0.02	8.36
41	Di-isopropyl Ether	3.572	4.067	-13.9	99	-0.02	8.59
42	Ethyl Acetate	0.364	0.388	-6.6	94	-0.03	8.62

Continuing Calibration Summary

Job Number: JB94203 **Sample:** V5W452-CC419
Account: PTCNJB PT Consultants **Lab FileID:** 5W11506.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

43		Methyl Acrylate	2.057	2.189	-6.4	97	-0.02	8.61
44		Chloroform	2.249	2.398	-6.6	94	-0.02	8.69
45		2,4-Dimethylpentane	1.805	1.890	-4.7	91	-0.02	9.59
46		Tetrahydrofuran	0.507	0.480	5.3	85	-0.03	9.16
47		1,1,1-Trichloroethane	2.099	2.137	-1.8	90	-0.03	9.81
48		1,2-Dichloroethane	1.317	1.436	-9.0	94	-0.02	9.52
49		Benzene	3.314	3.245	2.1	86	-0.03	10.35
50		Carbon Tetrachloride	2.205	2.324	-5.4	92	-0.03	10.52
51		Cyclohexane	1.579	1.592	-0.8	90	-0.03	10.67
52		2,3-Dimethylpentane	0.658	0.685	-4.1	88	-0.03	10.96
53	I	1,4-Difluorobenzene	1.000	1.000	0.0	90	-0.03	10.77
54		2,2,4-Trimethylpentane	1.334	1.601	-20.0	96	-0.03	11.66
55		Heptane	0.266	0.296	-11.3	88	-0.03	12.00
56		Trichloroethene	0.397	0.437	-10.1	90	-0.03	11.62
57		1,2-Dichloropropane	0.327	0.384	-17.4	94	-0.03	11.33
58		Dibromomethane	0.358	0.396	-10.6	91	-0.03	11.30
59		Ethyl Acrylate	0.666	0.725	-8.9	92	-0.03	11.35
60		Methyl Methacrylate	0.308	0.317	-2.9	86	-0.03	11.89
61		1,4-Dioxane	0.224	0.229	-2.2	91	-0.04	11.63
62		Bromodichloromethane	0.653	0.753	-15.3	92	-0.04	11.57
63		cis-1,3-Dichloropropene	0.510	0.538	-5.5	84	-0.03	12.71
64		4-Methyl-2-pentanone	0.267	0.303	-13.5	93	-0.03	12.76
65		trans-1,3-Dichloropropene	0.457	0.489	-7.0	84	-0.04	13.38
66		Toluene	1.048	1.113	-6.2	87	-0.03	13.97
67		1,1,2-Trichloroethane	0.366	0.413	-12.8	91	-0.04	13.60
68		2-Hexanone	0.392	0.423	-7.9	93	-0.03	14.34
69		Ethyl Methacrylate	0.548	0.599	-9.3	91	-0.04	14.36
70		Dibromochloromethane	0.677	0.761	-12.4	91	-0.03	14.52
71		Tetrachloroethene	0.510	0.574	-12.5	92	-0.04	15.49
72		1,2-Dibromoethane	0.600	0.651	-8.5	87	-0.04	14.85
73		Octane	0.650	0.763	-17.4	96	-0.04	15.32
74		1,1,1,2-Tetrachloroethane	0.440	0.500	-13.6	91	-0.04	16.41
75	I	Chlorobenzene-d5	1.000	1.000	0.0	88	-0.03	16.38
76		Chlorobenzene	1.498	1.619	-8.1	89	-0.03	16.44
77		Ethylbenzene	2.431	2.597	-6.8	85	-0.04	16.98
78		m,p-Xylene	1.950	2.215	-13.6	94	-0.04	17.26
79		Styrene	1.352	1.477	-9.2	82	-0.04	17.78
80		Nonane	1.233	1.487	-20.6	97	-0.04	18.31
81		o-Xylene	1.898	2.140	-12.8	89	-0.04	17.94
82		Bromoform	1.182	1.393	-17.9	92	-0.04	17.33
83		1,1,2,2-Tetrachloroethane	1.577	1.874	-18.8	96	-0.03	17.93
84		1,2,3-Trichloropropane	1.090	1.268	-16.3	93	-0.04	18.13
85		Isopropylbenzene	2.610	2.922	-12.0	89	-0.03	18.84
86		Bromobenzene	0.853	0.971	-13.8	91	-0.04	18.95
87		2-Chlorotoluene	0.646	0.705	-9.1	85	-0.04	19.52
88		n-Propylbenzene	0.673	0.778	-15.6	89	-0.03	19.59
89	S	4-Bromofluorobenzene	1.304	1.283	1.6	85	-0.04	18.63
90		4-Ethyltoluene	2.522	2.919	-15.7	89	-0.03	19.80
91		1,3,5-Trimethylbenzene	2.140	2.434	-13.7	90	-0.03	19.91
92		alpha-Methylstyrene	1.014	1.188	-17.2	87	-0.03	20.13
93		tert-Butylbenzene	0.434	0.505	-16.4	92	-0.02	20.46
94		1,2,4-Trimethylbenzene	2.141	2.602	-21.5	93	-0.02	20.47
95		1,3-Dichlorobenzene	1.455	1.702	-17.0	94	-0.03	20.66
96		Benzyl Chloride	1.934	2.303	-19.1	94	-0.03	20.65
97		1,4-Dichlorobenzene	1.431	1.643	-14.8	93	-0.02	20.76
98		sec-Butylbenzene	0.553	0.634	-14.6	90	-0.03	20.83
99		p-Isopropyltoluene	0.605	0.737	-21.8	92	-0.03	21.05
100		1,2-Dichlorobenzene	1.380	1.584	-14.8	93	-0.02	21.20

Continuing Calibration Summary

Job Number: JB94203 **Sample:** V5W452-CC419
Account: PTCNJB PT Consultants **Lab FileID:** 5W11506.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

101		n-Butylbenzene	0.539	0.645	-19.7	89	-0.02	21.61
102		Hexachloroethane	0.796	1.017	-27.8	102	-0.02	22.07
103		1,2,4-Trichlorobenzene	0.865	0.925	-6.9	90	-0.02	23.36
104		Naphthalene	1.744	1.894	-8.6	88	-0.02	23.48
105		Hexachlorobutadiene	1.019	1.011	0.8	94	-0.02	23.94
106	I	Bromochloromethane (A)	1.000	1.000	0.0	98	-0.02	8.55
107		TVHC as equiv Pentane	4.509	4.812	-6.7	99	0.00	5.93

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5w10673.D m5w419.M Wed May 13 09:15:40 2015 GCMS5W

Initial Calibration Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY
Sample: VW2031-ICC2031
Lab FileID: W50852.D

Response Factor Report MSW

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration

Calibration Files
0.04=W50860.D 0.1 =W50859.D 0.2 =W50855.D 0.5 =W50854.D
5 =W50853.D 10 =W50852.D 20 =W50856.D 30 =W50861.D
15 =W50857.D 40 =W50863.D = =

Compound

	0.04	0.1	0.2	0.5	5	10	20	30	15	40	Avg	%RSD
1) I BROMOCHLOROMETHANE	----------ISTD----------											
2) 1,1,1-TRIFLUOROETHANE											0.000	-1.00
3) FREON 152A	0.618	0.618	0.621	0.735	0.684	0.602	0.617	0.636	0.569		0.633	7.67
4) CHLORODIFLUOROMETHANE		0.261	0.280	0.324	0.299	0.269	0.271	0.285	0.249		0.280	8.35
5) DICHLORODIFLUOROMETHANE	3.259	3.435	3.207	3.123	3.574	3.315	2.975	3.017	3.188	2.805	3.190	7.06
6) PROPYLENE	1.107	1.031	1.020	0.923	0.925	0.847	0.730	0.742	0.770	0.683	0.878	16.61
7) FREON 114	3.261	3.483	3.045	3.149	3.597	3.377	3.036	3.071	3.245	2.920	3.218	6.71
8) 1-CHLORO-1,1-DIFLUOROETHANE											0.000	-1.00
9) CHLOROMETHANE		0.291	0.315	0.358	0.335	0.286	0.287	0.307	0.271		0.306	9.42
10) VINYL CHLORIDE	1.044	1.322	1.190	1.257	1.441	1.339	1.171	1.175	1.262	1.107	1.231	9.56
11) 1,3-BUTADIENE	0.902	1.057	1.039	1.018	1.117	1.037	0.899	0.896	0.958	0.843	0.977	9.15
12) n-BUTANE		0.223	0.264	0.296	0.277	0.242	0.241	0.259	0.226		0.254	10.03
13) BROMOMETHANE	1.042	1.256	1.186	1.188	1.350	1.236	1.092	1.109	1.195	1.057	1.171	8.27
14) CHLOROETHANE	0.719	0.656	0.694	0.805	0.741	0.657	0.664	0.702	0.618		0.695	8.00
15) DICHLOROFLUOROMETHANE	3.119	3.196	2.961	2.770	3.011	2.747	2.463	2.468	2.646	2.297	2.768	10.92
16) ACROLEIN		0.865	0.548	0.500	0.514	0.481	0.473	0.493	0.438		0.539	25.14
17) TRICHLOROFLUOROMETHANE	3.167	3.372	2.970	3.029	3.589	3.331	3.015	3.039	3.233	2.802	3.155	7.32
18) ISOPROPYL ALCOHOL		2.375	2.446	1.820	1.894	1.778	1.843	1.944	1.721		1.978	13.97
19) ACETONE		0.760	0.746	0.594	0.602	0.560	0.543	0.581	0.528		0.614	14.52
20) 1,1-DICHLORO-1-FLUOROETHANE											0.000	-1.00
21) ACRYLONITRILE		1.209	1.215	0.975	0.984	0.916	0.903	0.958	0.846		1.001	13.77
22) PENTANE	0.463	0.541	0.488	0.423	0.390	0.330	0.324	0.352	0.299		0.401	20.73
23) IODOMETHANE												

Initial Calibration Summary

Job Number: JB94203 **Sample:** VW2031-ICC2031
Account: PTCNJB PT Consultants **Lab FileID:** W50852.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

```
      3.247 3.634 3.332 3.304 3.899 3.635 3.231 3.289 3.513 3.158  3.424    6.90
24)  1,1-DICHLOROETHYLENE
             1.759 1.401 1.236 1.341 1.224 1.112 1.129 1.191 1.077  1.274   16.50
25)  CARBON DISULFIDE
             4.233 3.402 3.149 3.583 3.354 2.998 3.011 3.170 2.823  3.303   12.69
26)  ETHANOL
                         0.880 0.452 0.448 0.404 0.417 0.457 0.402  0.495   34.70
27)  ACETONITRILE
                    1.286 1.269 0.915 0.921 0.849 0.842 0.864 0.780  0.966   20.45
28)  BROMOETHENE
      0.921 1.325 1.201 1.189 1.391 1.283 1.170 1.178 1.260 1.123  1.204   10.63
29)  METHYLENE CHLORIDE
      1.044 1.347 1.090 1.092 1.117 1.041 0.929 0.932 0.983 0.878  1.045   12.71
30)  3-CHLOROPROPENE
             0.508 0.487 0.520 0.614 0.584 0.522 0.530 0.555 0.504  0.536    7.64
31)  FREON 113
      2.183 2.452 2.190 2.145 2.590 2.431 2.229 2.273 2.393 2.162  2.305    6.59
32)  TRANS-1,2-DICHLOROETHYLENE
             1.904 1.500 1.336 1.427 1.330 1.186 1.201 1.279 1.132  1.366   17.09
33)  TERTIARY BUTYL ALCOHOL
      1.953 2.878 2.134 2.368 2.179 2.248 2.161 2.280 2.358 2.201  2.276   10.67
34)  METHYL TERTIARY BUTYL ETHER
      3.592 4.216 3.519 3.378 3.414 3.524 3.279 3.344 3.447 3.207  3.492    8.02
35)  TETRAHYDROFURAN
             0.526 0.377 0.495 0.533 0.564 0.528 0.542 0.553 0.518  0.515   10.76
36)  HEXANE
      1.620 1.976 1.726 1.715 1.959 1.929 1.778 1.849 1.857 1.736  1.814    6.53
37)  VINYL ACETATE
                    0.210 0.283 0.332 0.347 0.320 0.326 0.336 0.315  0.309   14.23
38)  1,1-DICHLOROETHANE
      1.612 2.123 1.870 1.866 2.107 2.050 1.856 1.891 1.958 1.784  1.912    8.12
39)  METHYL ETHYL KETONE
             0.840 0.486 0.580 0.520 0.568 0.545 0.557 0.564 0.535  0.577   17.77
40)  cis-1,2-DICHLOROETHYLENE
             2.037 1.512 1.396 1.437 1.370 1.232 1.253 1.316 1.176  1.414   18.13
41)  DI-ISOPROPYL ETHER
             1.098 0.988 1.039 1.074 1.139 1.084 1.121 1.129 1.077  1.083    4.39
42)  ETHYL ACETATE
             0.352 0.259 0.338 0.344 0.383 0.370 0.381 0.376 0.368  0.352   10.91
43)  METHYL ACRYLATE
                    2.135 2.197 2.040 2.152 2.035 2.109 2.099 2.008  2.097    3.10
44)  CHLOROFORM
      2.335 2.693 2.403 2.380 2.666 2.579 2.348 2.384 2.485 2.239  2.451    6.13
45)  2,4-DIMETHYLPENTANE
      1.596 2.027 1.881 1.891 2.194 2.194 2.014 2.075 2.104 1.951  1.993    8.92
46)  1,1,1-TRICHLOROETHANE
      2.226 2.772 2.560 2.509 2.818 2.713 2.475 2.513 2.630 2.380  2.560    7.08
47)  CARBON TETRACHLORIDE
      2.647 3.119 2.748 2.817 3.169 3.045 2.802 2.863 2.986 2.697  2.889    6.25
48)  1,2-DICHLOROETHANE
      1.255 1.613 1.394 1.465 1.610 1.570 1.443 1.465 1.511 1.375  1.470    7.64

49) I   1,4-DIFLUOROBENZENE   ----------------ISTD---------------------
50)  BENZENE
      0.935 0.992 0.842 0.816 0.919 0.916 0.826 0.844 0.864 0.838  0.879    6.61
51)  CYCLOHEXANE
             0.495 0.455 0.393 0.444 0.432 0.392 0.401 0.411 0.398  0.425    8.26
52)  2,3-DIMETHYLPENTANE
             0.172 0.163 0.170 0.206 0.205 0.188 0.194 0.196 0.194  0.187    8.36
53)  TRICHLOROETHYLENE
```

Initial Calibration Summary

Job Number: JB94203 **Sample:** VW2031-ICC2031
Account: PTCNJB PT Consultants **Lab FileID:** W50852.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

```
      0.318 0.392 0.358 0.361 0.427 0.427 0.395 0.411 0.410 0.410  0.391    8.95
54)  DIBROMOMETHANE
      0.470 0.536 0.423 0.425 0.469 0.467 0.436 0.452 0.459 0.449  0.459    7.01
55)  1,2-DICHLOROPROPANE
      0.220 0.295 0.255 0.262 0.295 0.303 0.285 0.298 0.292 0.299  0.280    9.55
56)  ETHYL ACRYLATE
                  0.508 0.566 0.479 0.558 0.548 0.575 0.553 0.581  0.546    6.44
57)  BROMODICHLOROMETHANE
      0.549 0.632 0.562 0.563 0.664 0.669 0.626 0.650 0.649 0.648  0.621    7.34
58)  2,2,4-TRIMETHYLPENTANE
      1.168 1.345 1.184 1.179 1.385 1.423 1.332 1.401 1.368 1.394  1.318    7.65
59)  1,4-DIOXANE
                  0.174 0.230 0.170 0.187 0.183 0.200 0.200 0.210  0.194   10.17
60)  METHYL METHACRYLATE
            0.305 0.238 0.286 0.271 0.310 0.294 0.307 0.302 0.308  0.291    8.17
61)  HEPTANE
      0.447 0.524 0.483 0.449 0.466 0.480 0.439 0.453 0.451 0.448  0.464    5.52
62)  METHYL ISOBUTYL KETONE
      0.388 0.587 0.463 0.557 0.403 0.502 0.519 0.552 0.517 0.561  0.505   13.37
63)  cis-1,3-DICHLOROPROPENE
      0.437 0.509 0.444 0.438 0.499 0.522 0.484 0.501 0.496 0.500  0.483    6.49
64)  TOLUENE
      0.563 0.670 0.578 0.599 0.678 0.705 0.655 0.677 0.677 0.679  0.648    7.61
65)  trans-1,3-DICHLOROPROPENE
      0.437 0.504 0.397 0.402 0.439 0.457 0.430 0.443 0.446 0.444  0.440    6.75
66)  1,1,2-TRICHLOROETHANE
      0.196 0.266 0.241 0.255 0.290 0.299 0.279 0.286 0.287 0.287  0.268   11.62

67) I   CHLOROBENZENE-D5      ----------------ISTD--------------------
68)  ETHYL METHACRYLATE
            1.161 0.840 1.031 0.882 1.065 1.001 0.993 1.015 0.986  0.997    9.45
69)  2-HEXANONE
                  0.491 0.729 0.516 0.602 0.593 0.601 0.594 0.602  0.591   11.94
70)  TETRACHLOROETHYLENE
      1.127 1.359 1.123 1.133 1.226 1.213 1.061 1.030 1.120 0.998  1.139    9.26
71)  DIBROMOCHLOROMETHANE
      1.338 1.749 1.378 1.402 1.615 1.638 1.431 1.399 1.507 1.356  1.481    9.47
72)  1,2-DIBROMOETHANE
      1.142 1.462 1.101 1.167 1.224 1.284 1.130 1.093 1.179 1.067  1.185    9.85
73)  OCTANE
      1.533 1.595 1.381 1.375 1.432 1.455 1.238 1.196 1.286 1.149  1.364   10.69
74)  1,1,1,2-TETRACHLOROETHANE
      0.970 1.293 1.051 1.085 1.168 1.193 1.043 1.008 1.095 0.984  1.089    9.38
75)  CHLOROBENZENE
      1.951 2.361 1.957 1.980 2.084 2.140 1.877 1.813 1.960 1.764  1.989    8.67
76)  ETHYLBENZENE
      2.885 3.465 2.845 2.881 3.045 3.170 2.768 2.669 2.903 2.612  2.924    8.57
77)  m,p-XYLENE
      1.098 1.425 1.160 1.236 1.297 1.368 1.199 1.163 1.247 1.133  1.233    8.51
78)  o-XYLENE
      0.884 1.261 1.058 1.148 1.196 1.272 1.120 1.091 1.167 1.061  1.126   10.06
79)  STYRENE
      1.535 2.137 1.565 1.792 1.925 2.042 1.796 1.744 1.871 1.702  1.811   10.56
80)  1,2,3-TRICHLOROPROPANE
      1.348 1.645 1.177 1.175 1.088 1.168 1.039 1.006 1.072 0.983  1.170   16.93
81)  NONANE
      1.383 1.630 1.330 1.318 1.474 1.530 1.317 1.268 1.355 1.221  1.382    9.10
82)  BROMOFORM
      1.405 1.697 1.286 1.425 1.585 1.677 1.522 1.504 1.590 1.470  1.516    8.37
83)  4-BROMOFLUOROBENZENE
```

Initial Calibration Summary

Job Number: JB94203 **Sample:** VW2031-ICC2031
Account: PTCNJB PT Consultants **Lab FileID:** W50852.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

```
       1.150 1.129 1.191 1.209 1.217 1.160 1.133 1.105 1.185 1.029  1.151    4.89
 84)  1,1,2,2-TETRACHLOROETHANE
       1.534 1.972 1.460 1.542 1.514 1.638 1.463 1.433 1.508 1.401  1.546   10.58
 85)  ISOPROPYLBENZENE
       3.634 4.124 3.417 3.445 3.564 3.731 3.301 3.187 3.440 3.100  3.494    8.40
 86)  BROMOBENZENE
       1.120 1.413 1.092 1.136 1.171 1.229 1.098 1.067 1.145 1.038  1.151    9.27
 87)  2-CHLOROTOLUENE
       0.687 1.027 0.797 0.835 0.870 0.911 0.805 0.781 0.839 0.762  0.831   11.08
 88)  n-PROPYLBENZENE
       0.665 1.050 0.880 0.933 0.972 1.041 0.936 0.910 0.971 0.884  0.924   11.71
 89)  4-ETHYLTOLUENE
       2.988 3.502 2.695 2.984 3.034 3.266 2.931 2.840 3.067 2.842  3.015    7.62
 90)  1,3,5-TRIMETHYLBENZENE
       2.814 3.609 2.823 2.801 2.920 3.113 2.770 2.688 2.844 2.545  2.893   10.06
 91)  ALPHA-METHYLSTYRENE
       1.080 1.437 1.106 1.247 1.327 1.450 1.305 1.263 1.346 1.234  1.279    9.55
 92)  TERT-BUTYLBENZENE
       0.541 0.818 0.654 0.717 0.716 0.774 0.698 0.674 0.726 0.649  0.697   10.81
 93)  1,2,4-TRIMETHYLBENZENE
       2.621 3.176 2.424 2.606 2.645 2.885 2.621 2.554 2.700 2.483  2.671    8.10
 94)  m-DICHLOROBENZENE
       1.795 2.081 1.501 1.604 1.677 1.830 1.678 1.632 1.751 1.576  1.713    9.57
 95)  BENZYL CHLORIDE
       1.787 2.208 1.399 1.662 1.682 1.954 1.851 1.826 1.875 1.817  1.806   11.57
 96)  p-DICHLOROBENZENE
       1.929 2.169 1.503 1.679 1.686 1.840 1.704 1.675 1.746 1.640  1.757   10.48
 97)  SEC-BUTYLBENZENE
       0.726 1.028 0.774 0.849 0.850 0.919 0.834 0.809 0.866 0.784  0.844    9.99
 98)  p-ISOPROPYLTOLUENE
       0.719 1.070 0.791 0.863 0.843 0.935 0.861 0.837 0.893 0.805  0.862   10.88
 99)  o-DICHLOROBENZENE
       1.807 2.091 1.469 1.606 1.537 1.660 1.509 1.465 1.570 1.429  1.614   12.46
100)  n-BUTYLBENZENE
       0.594 0.843 0.623 0.738 0.695 0.796 0.730 0.708 0.755 0.693  0.717   10.32
101)  HEXACHLOROETHANE
       1.100 1.385 1.047 1.097 1.200 1.262 1.140 1.112 1.174 1.082  1.160    8.72
102)  HEXACHLOROBUTADIENE
                   1.392 1.412 1.141 1.206 1.093 1.064 1.123 1.093  1.190   11.53
103)  1,2,4-TRICHLOROBENZENE
                   0.723 0.870 0.552 0.651 0.640 0.622 0.638 0.700  0.675   13.92
104)  NAPHTHALENE
                   1.353 1.687 1.117 1.330 1.326 1.323 1.323 1.444  1.363   11.69
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          MW2031.M          Thu Apr 09 18:13:59 2015   MSW
```

6.9.10

6

Initial Calibration Verification

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: VW2031-ICV2031
Lab FileID: W50865.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\W50865.D Vial: 4
Acq On : 9 Apr 2015 5:48 am Operator: danat
Sample : ICV2031-10 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	109	0.00
2	1,1,1-TRIFLUOROETHANE	0.000	0.000	0.0	0#	-4.97#
3	FREON 152A	0.633	0.654	-3.3	104	0.00
4	CHLORODIFLUOROMETHANE	0.280	0.288	-2.9	105	0.00
5	DICHLORODIFLUOROMETHANE	3.190	3.077	3.5	101	0.00
6	PROPYLENE	0.878	0.733	16.5	94	0.00
7	FREON 114	3.218	3.274	-1.7	105	0.00
8	1-CHLORO-1,1-DIFLUOROETHANE	0.000	0.000	0.0	0#	-5.37#
9	CHLOROMETHANE	0.306	0.309	-1.0	100	0.00
10	VINYL CHLORIDE	1.231	1.266	-2.8	103	0.00
11	1,3-BUTADIENE	0.977	0.989	-1.2	103	0.00
12	n-BUTANE	0.254	0.265	-4.3	104	0.00
13	BROMOMETHANE	1.171	1.219	-4.1	107	0.00
14	CHLOROETHANE	0.695	0.723	-4.0	106	0.00
15	DICHLOROFLUOROMETHANE	2.768	2.725	1.6	108	0.00
16	ACROLEIN	0.539	0.504	6.5	106	0.00
17	TRICHLOROFLUOROMETHANE	3.155	3.320	-5.2	108	0.00
18	ISOPROPYL ALCOHOL	1.978	1.777	10.2	102	0.00
19	ACETONE	0.614	0.572	6.8	103	0.00
20	1,1-DICHLORO-1-FLUOROETHANE	0.000	0.000	0.0	0#	-6.90#
21	ACRYLONITRILE	1.001	0.972	2.9	107	0.00
22	PENTANE	0.401	0.358	10.7	100	0.00
23	IODOMETHANE	3.424	3.693	-7.9	110	0.00
24	1,1-DICHLOROETHYLENE	1.274	1.250	1.9	111	0.00
25	CARBON DISULFIDE	3.303	3.284	0.6	106	0.00
26	ETHANOL	0.495	0.446	9.9	108	0.00
27	ACETONITRILE	0.966	0.889	8.0	105	0.00
28	BROMOETHENE	1.204	1.306	-8.5	110	0.00
29	METHYLENE CHLORIDE	1.045	1.035	1.0	108	0.00
30	3-CHLOROPROPENE	0.536	0.588	-9.7	109	0.00
31	FREON 113	2.305	2.555	-10.8	114	0.00
32	TRANS-1,2-DICHLOROETHYLENE	1.366	1.332	2.5	109	0.00
33	TERTIARY BUTYL ALCOHOL	2.276	2.110	7.3	102	0.00
34	METHYL TERTIARY BUTYL ETHER	3.492	3.444	1.4	106	0.00
35	TETRAHYDROFURAN	0.515	0.541	-5.0	104	0.00
36	HEXANE	1.814	1.923	-6.0	108	0.00
37	VINYL ACETATE	0.309	0.344	-11.3	108	0.00
38	1,1-DICHLOROETHANE	1.912	2.075	-8.5	110	0.00
39	METHYL ETHYL KETONE	0.577	0.546	5.4	104	0.00
40	cis-1,2-DICHLOROETHYLENE	1.414	1.384	2.1	110	0.00
41	DI-ISOPROPYL ETHER	1.083	1.121	-3.5	107	0.00
42	ETHYL ACETATE	0.352	0.371	-5.4	105	0.00

Initial Calibration Verification

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: VW2031-ICV2031
Lab FileID: W50865.D

43		METHYL ACRYLATE	2.097	2.112	-0.7	107	0.00
44		CHLOROFORM	2.451	2.622	-7.0	110	0.00
45		2,4-DIMETHYLPENTANE	1.993	2.194	-10.1	109	0.00
46		1,1,1-TRICHLOROETHANE	2.560	2.768	-8.1	111	0.00
47		CARBON TETRACHLORIDE	2.889	3.129	-8.3	111	0.00
48		1,2-DICHLOROETHANE	1.470	1.594	-8.4	110	0.00
49	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	108	0.00
50		BENZENE	0.879	0.921	-4.8	108	0.00
51		CYCLOHEXANE	0.425	0.432	-1.6	108	0.00
52		2,3-DIMETHYLPENTANE	0.187	0.207	-10.7	109	0.00
53		TRICHLOROETHYLENE	0.391	0.436	-11.5	110	0.00
54		DIBROMOMETHANE	0.459	0.495	-7.8	114	0.00
55		1,2-DICHLOROPROPANE	0.280	0.307	-9.6	109	0.00
56		ETHYL ACRYLATE	0.546	0.545	0.2	105	0.00
57		BROMODICHLOROMETHANE	0.621	0.692	-11.4	111	0.00
58		2,2,4-TRIMETHYLPENTANE	1.318	1.447	-9.8	109	0.00
59		1,4-DIOXANE	0.194	0.183	5.7	105	0.00
60		METHYL METHACRYLATE	0.291	0.304	-4.5	105	0.00
61		HEPTANE	0.464	0.485	-4.5	109	0.00
62		METHYL ISOBUTYL KETONE	0.505	0.474	6.1	102	0.00
63		cis-1,3-DICHLOROPROPENE	0.483	0.530	-9.7	109	0.00
64		TOLUENE	0.648	0.714	-10.2	109	0.00
65		trans-1,3-DICHLOROPROPENE	0.440	0.462	-5.0	109	0.00
66		1,1,2-TRICHLOROETHANE	0.268	0.300	-11.9	108	0.00
67	I	CHLOROBENZENE-D5	1.000	1.000	0.0	106	0.00
68		ETHYL METHACRYLATE	0.997	1.037	-4.0	103	0.00
69		2-HEXANONE	0.591	0.576	2.5	102	0.00
70		TETRACHLOROETHYLENE	1.139	1.291	-13.3	113	0.00
71		DIBROMOCHLOROMETHANE	1.481	1.757	-18.6	114	0.00
72		1,2-DIBROMOETHANE	1.185	1.330	-12.2	110	0.00
73		OCTANE	1.364	1.501	-10.0	110	0.00
74		1,1,1,2-TETRACHLOROETHANE	1.089	1.252	-15.0	112	0.00
75		CHLOROBENZENE	1.989	2.225	-11.9	110	0.00
76		ETHYLBENZENE	2.924	3.223	-10.2	108	0.00
77		m,p-XYLENE	1.233	1.396	-13.2	108	0.00
78		o-XYLENE	1.126	1.299	-15.4	108	0.00
79		STYRENE	1.811	2.069	-14.2	108	0.00
80		1,2,3-TRICHLOROPROPANE	1.170	1.180	-0.9	107	0.00
81		NONANE	1.382	1.563	-13.1	108	0.00
82		BROMOFORM	1.516	1.800	-18.7	114	0.00
83	S	4-BROMOFLUOROBENZENE	1.151	1.165	-1.2	107	0.00
84		1,1,2,2-TETRACHLOROETHANE	1.546	1.635	-5.8	106	0.00
85		ISOPROPYLBENZENE	3.494	3.823	-9.4	109	0.00
86		BROMOBENZENE	1.151	1.287	-11.8	111	0.00
87		2-CHLOROTOLUENE	0.831	0.941	-13.2	110	0.00
88		n-PROPYLBENZENE	0.924	1.068	-15.6	109	0.00
89		4-ETHYLTOLUENE	3.015	3.312	-9.9	108	0.00
90		1,3,5-TRIMETHYLBENZENE	2.893	3.141	-8.6	107	0.00
91		ALPHA-METHYLSTYRENE	1.279	1.462	-14.3	107	0.00
92		TERT-BUTYLBENZENE	0.697	0.792	-13.6	109	0.00
93		1,2,4-TRIMETHYLBENZENE	2.671	2.906	-8.8	107	0.00
94		m-DICHLOROBENZENE	1.713	1.910	-11.5	111	0.00
95		BENZYL CHLORIDE	1.806	1.953	-8.1	106	0.00
96		p-DICHLOROBENZENE	1.757	1.919	-9.2	111	0.00
97		SEC-BUTYLBENZENE	0.844	0.941	-11.5	109	0.00
98		p-ISOPROPYLTOLUENE	0.862	0.963	-11.7	109	0.00
99		o-DICHLOROBENZENE	1.614	1.707	-5.8	109	0.00
100		n-BUTYLBENZENE	0.717	0.805	-12.3	107	0.00

Initial Calibration Verification

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: VW2031-ICV2031
Lab FileID: W50865.D

101	HEXACHLOROETHANE	1.160	1.335	-15.1	112	0.00
102	HEXACHLOROBUTADIENE	1.190	1.250	-5.0	110	0.00
103	1,2,4-TRICHLOROBENZENE	0.675	0.674	0.1	110	0.00
104	NAPHTHALENE	1.363	1.338	1.8	107	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W50852.D MW2031.M Thu Apr 09 18:13:55 2015 MSW

6.9.11

6

Continuing Calibration Summary

Job Number: JB94203
Account: PTCNJB PT Consultants
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

Sample: VW2039-CC2031
Lab FileID: W51045.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\W51045.D Vial: 2
Acq On : 23 Apr 2015 11:13 am Operator: mikel1
Sample : CC2031-10 Inst : MSW
Misc : MS83902,VW2039,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	88	-0.01
2	1,1,1-TRIFLUOROETHANE	0.000	0.000	0.0	0#	-4.97#
3	FREON 152A	0.633	0.689	-8.8	88	0.00
4	CHLORODIFLUOROMETHANE	0.280	0.223	20.4	66	0.00
5	DICHLORODIFLUOROMETHANE	3.190	2.760	13.5	73	0.00
6	PROPYLENE	0.878	0.749	14.7	78	0.00
7	FREON 114	3.218	3.359	-4.4	87	0.00
8	1-CHLORO-1,1-DIFLUOROETHANE	0.000	0.000	0.0	0#	-5.37#
9	CHLOROMETHANE	0.306	0.323	-5.6	85	0.00
10	VINYL CHLORIDE	1.231	1.378	-11.9	90	0.00
11	1,3-BUTADIENE	0.977	1.014	-3.8	86	0.00
12	n-BUTANE	0.254	0.284	-11.8	90	0.00
13	BROMOMETHANE	1.171	1.362	-16.3	97	0.00
14	CHLOROETHANE	0.695	0.773	-11.2	91	0.00
15	DICHLOROFLUOROMETHANE	2.768	2.615	5.5	83	0.00
16	ACROLEIN	0.539	0.455	15.6	78	0.00
17	TRICHLOROFLUOROMETHANE	3.155	3.062	2.9	81	0.00
18	ISOPROPYL ALCOHOL	1.978	1.669	15.6	77	0.00
19	ACETONE	0.614	0.552	10.1	80	0.00
20	1,1-DICHLORO-1-FLUOROETHANE	0.000	0.000	0.0	0#	-6.90#
21	ACRYLONITRILE	1.001	0.894	10.7	80	0.00
22	PENTANE	0.401	0.383	4.5	86	0.00
23	IODOMETHANE	3.424	3.494	-2.0	84	-0.01
24	1,1-DICHLOROETHYLENE	1.274	1.247	2.1	89	0.00
25	CARBON DISULFIDE	3.303	3.527	-6.8	92	0.00
26	ETHANOL	0.495	0.403	18.6	79	0.00
27	ACETONITRILE	0.966	0.788	18.4	75	-0.01
28	BROMOETHENE	1.204	1.420	-17.9	97	0.00
29	METHYLENE CHLORIDE	1.045	1.053	-0.8	89	0.00
30	3-CHLOROPROPENE	0.536	0.587	-9.5	88	-0.01
31	FREON 113	2.305	2.168	5.9	78	-0.01
32	TRANS-1,2-DICHLOROETHYLENE	1.366	1.260	7.8	83	0.00
33	TERTIARY BUTYL ALCOHOL	2.276	1.976	13.2	77	0.00
34	METHYL TERTIARY BUTYL ETHER	3.492	2.794	20.0	70	0.00
35	TETRAHYDROFURAN	0.515	0.516	-0.2	80	-0.01
36	HEXANE	1.814	2.047	-12.8	93	-0.01
37	VINYL ACETATE	0.309	0.312	-1.0	79	0.00
38	1,1-DICHLOROETHANE	1.912	1.906	0.3	82	0.00
39	METHYL ETHYL KETONE	0.577	0.511	11.4	79	-0.01
40	cis-1,2-DICHLOROETHYLENE	1.414	1.237	12.5	79	-0.01
41	DI-ISOPROPYL ETHER	1.083	0.976	9.9	75	-0.01
42	ETHYL ACETATE	0.352	0.352	0.0	81	0.00

Continuing Calibration Summary

Job Number: JB94203 **Sample:** VW2039-CC2031
Account: PTCNJB PT Consultants **Lab FileID:** W51045.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

43		METHYL ACRYLATE	2.097	1.947	7.2	79	-0.01
44		CHLOROFORM	2.451	2.124	13.3	72	-0.01
45		2,4-DIMETHYLPENTANE	1.993	2.054	-3.1	82	-0.01
46		1,1,1-TRICHLOROETHANE	2.560	2.011	21.4	65	-0.01
47		CARBON TETRACHLORIDE	2.889	2.256	21.9	65	-0.01
48		1,2-DICHLOROETHANE	1.470	1.181	19.7	66	-0.01
49	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	88	-0.01
50		BENZENE	0.879	0.855	2.7	82	-0.01
51		CYCLOHEXANE	0.425	0.409	3.8	83	-0.01
52		2,3-DIMETHYLPENTANE	0.187	0.192	-2.7	82	-0.01
53		TRICHLOROETHYLENE	0.391	0.368	5.9	76	-0.01
54		DIBROMOMETHANE	0.459	0.401	12.6	75	-0.01
55		1,2-DICHLOROPROPANE	0.280	0.298	-6.4	86	-0.01
56		ETHYL ACRYLATE	0.546	0.476	12.8	75	-0.01
57		BROMODICHLOROMETHANE	0.621	0.547	11.9	72	-0.01
58		2,2,4-TRIMETHYLPENTANE	1.318	1.338	-1.5	82	-0.01
59		1,4-DIOXANE	0.194	0.171	11.9	80	-0.01
60		METHYL METHACRYLATE	0.291	0.274	5.8	77	-0.01
61		HEPTANE	0.464	0.442	4.7	81	-0.01
62		METHYL ISOBUTYL KETONE	0.505	0.415	17.8	72	-0.01
63		cis-1,3-DICHLOROPROPENE	0.483	0.465	3.7	78	-0.01
64		TOLUENE	0.648	0.623	3.9	77	-0.01
65		trans-1,3-DICHLOROPROPENE	0.440	0.385	12.5	74	-0.01
66		1,1,2-TRICHLOROETHANE	0.268	0.270	-0.7	79	-0.01
67	I	CHLOROBENZENE-D5	1.000	1.000	0.0	85	-0.01
68		ETHYL METHACRYLATE	0.997	0.907	9.0	73	-0.01
69		2-HEXANONE	0.591	0.553	6.4	78	-0.01
70		TETRACHLOROETHYLENE	1.139	1.055	7.4	74	-0.01
71		DIBROMOCHLOROMETHANE	1.481	1.370	7.5	71	-0.01
72		1,2-DIBROMOETHANE	1.185	1.127	4.9	75	-0.01
73		OCTANE	1.364	1.377	-1.0	81	0.00
74		1,1,1,2-TETRACHLOROETHANE	1.089	0.995	8.6	71	-0.01
75		CHLOROBENZENE	1.989	1.909	4.0	76	-0.01
76		ETHYLBENZENE	2.924	2.774	5.1	75	-0.01
77		m,p-XYLENE	1.233	1.189	3.6	74	-0.01
78		o-XYLENE	1.126	1.114	1.1	75	-0.01
79		STYRENE	1.811	1.784	1.5	74	-0.01
80		1,2,3-TRICHLOROPROPANE	1.170	1.048	10.4	76	-0.01
81		NONANE	1.382	1.452	-5.1	81	-0.01
82		BROMOFORM	1.516	1.418	6.5	72	-0.01
83	S	4-BROMOFLUOROBENZENE	1.151	1.191	-3.5	88	-0.01
84		1,1,2,2-TETRACHLOROETHANE	1.546	1.524	1.4	79	-0.01
85		ISOPROPYLBENZENE	3.494	3.200	8.4	73	-0.01
86		BROMOBENZENE	1.151	1.046	9.1	73	-0.01
87		2-CHLOROTOLUENE	0.831	0.790	4.9	74	-0.01
88		n-PROPYLBENZENE	0.924	0.891	3.6	73	-0.01
89		4-ETHYLTOLUENE	3.015	2.771	8.1	72	-0.01
90		1,3,5-TRIMETHYLBENZENE	2.893	2.616	9.6	72	-0.01
91		ALPHA-METHYLSTYRENE	1.279	1.224	4.3	72	0.00
92		TERT-BUTYLBENZENE	0.697	0.645	7.5	71	-0.01
93		1,2,4-TRIMETHYLBENZENE	2.671	2.415	9.6	71	0.00
94		m-DICHLOROBENZENE	1.713	1.562	8.8	73	0.00
95		BENZYL CHLORIDE	1.806	1.663	7.9	73	0.00
96		p-DICHLOROBENZENE	1.757	1.597	9.1	74	-0.01
97		SEC-BUTYLBENZENE	0.844	0.773	8.4	72	-0.01
98		p-ISOPROPYLTOLUENE	0.862	0.796	7.7	73	-0.01
99		o-DICHLOROBENZENE	1.614	1.426	11.6	73	0.00
100		n-BUTYLBENZENE	0.717	0.660	7.9	71	-0.01

Continuing Calibration Summary

Job Number: JB94203 **Sample:** VW2039-CC2031
Account: PTCNJB PT Consultants **Lab FileID:** W51045.D
Project: 12090-02 430 Van Brunt Street, Brooklyn, NY

101	HEXACHLOROETHANE	1.160	1.073	7.5	72	0.00
102	HEXACHLOROBUTADIENE	1.190	0.988	17.0	70	-0.01
103	1,2,4-TRICHLOROBENZENE	0.675	0.551	18.4	72	-0.01
104	NAPHTHALENE	1.363	1.150	15.6	74	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W50852.D MW2031.M Fri Apr 24 12:19:13 2015 MSW

New Jersey

ACCUTEST LABORATORIES

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11437.D
Acq On : 8 May 2015 3:44 pm
Operator : mikel1
Sample : JB94203-1
Misc : MS84855,v5w449,100,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 09 09:05:25 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.545	130	122709	10.00	ppb(v	-0.03
53) 1,4-Difluorobenzene	10.772	114	436393	10.00	ppb(v	-0.03
75) Chlorobenzene-d5	16.376	82	233590	10.00	ppb(v	-0.03
106) Bromochloromethane (A)	8.545	130	122709	10.00	ppb(v	-0.03
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.627	95	310798	10.20	ppb(v	-0.04
Spiked Amount 10.000	Range 65 - 128		Recovery	=	102.00%	
Target Compounds						Qvalue
5) Propene	3.963	41	96842	10.97	ppb(v	96
6) Dichlorodifluoromethane	4.030	85	10660	0.34	ppb(v	99
8) Chloromethane	4.171	50	1534	0.15	ppb(v	89
10) Vinyl Chloride	4.367	62	2557	0.21	ppb(v#	95
12) n-Butane	4.538	58	21917	12.49	ppb(v	99
14) Chloroethane	4.887	64	640	0.11	ppb(v#	74
21) Acetone	5.425	58	254264	44.22	ppb(v	99
22) Pentane	5.927	57	27103	9.21	ppb(v	94
25) Isopropyl Alcohol	5.670	45	14731	0.65	ppb(v	94
28) Methylene Chloride	6.318	84	10216	0.90	ppb(v	98
29) Carbon Disulfide	6.618	76	78629	2.17	ppb(v	98
30) Ethanol	4.991	45	11532	1.99	ppb(v	96
34) tert-Butyl Alcohol	6.245	59	22582	0.79	ppb(v#	77
37) 1,1-Dichloroethane	7.468	63	28217	1.24	ppb(v	97
38) 2-Butanone	7.903	72	6908	1.08	ppb(v	92
39) Hexane	8.594	57	74201	3.61	ppb(v#	37
40) cis-1,2-Dichloroethene	8.362	61	9170	0.53	ppb(v	99
42) Ethyl Acetate	8.637	61	2078	0.46	ppb(v#	66
44) Chloroform	8.692	83	2671	0.10	ppb(v	94
45) 2,4-Dimethylpentane	9.591	57	3064	0.14	ppb(v	94
47) 1,1,1-Trichloroethane	9.811	97	32272	1.25	ppb(v	99
49) Benzene	10.350	78	31375	0.77	ppb(v	99
51) Cyclohexane	10.674	56	13635	0.70	ppb(v	96
52) 2,3-Dimethylpentane	10.962	71	2585	0.32	ppb(v	94
54) 2,2,4-Trimethylpentane	11.659	57	12110	0.21	ppb(v#	27
55) Heptane	11.995	71	15933	1.37	ppb(v	98
56) Trichloroethene	11.616	95	5582	0.32	ppb(v	94
66) Toluene	13.959	91	422947	9.25	ppb(v	99
71) Tetrachloroethene	15.495	166	5613	0.25	ppb(v	95
73) Octane	15.323	43	17486	0.62	ppb(v	95
77) Ethylbenzene	16.988	91	45088	0.79	ppb(v	97
78) m,p-Xylene	17.232	91	156387	3.43	ppb(v	98
79) Styrene	17.783	104	12520	0.40	ppb(v	98
80) Nonane	18.315	43	18582	0.65	ppb(v#	96
81) o-Xylene	17.936	91	56728	1.28	ppb(v	98
88) n-Propylbenzene	19.588	120	2228	0.14	ppb(v	97
90) 4-Ethyltoluene	19.802	105	11331	0.19	ppb(v	98
91) 1,3,5-Trimethylbenzene	19.918	105	11899	0.24	ppb(v	97
94) 1,2,4-Trimethylbenzene	20.475	105	25541	0.51	ppb(v#	63

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11437.D
Acq On : 8 May 2015 3:44 pm
Operator : mikel1
Sample : JB94203-1
Misc : MS84855,v5w449,100,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 09 09:05:25 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

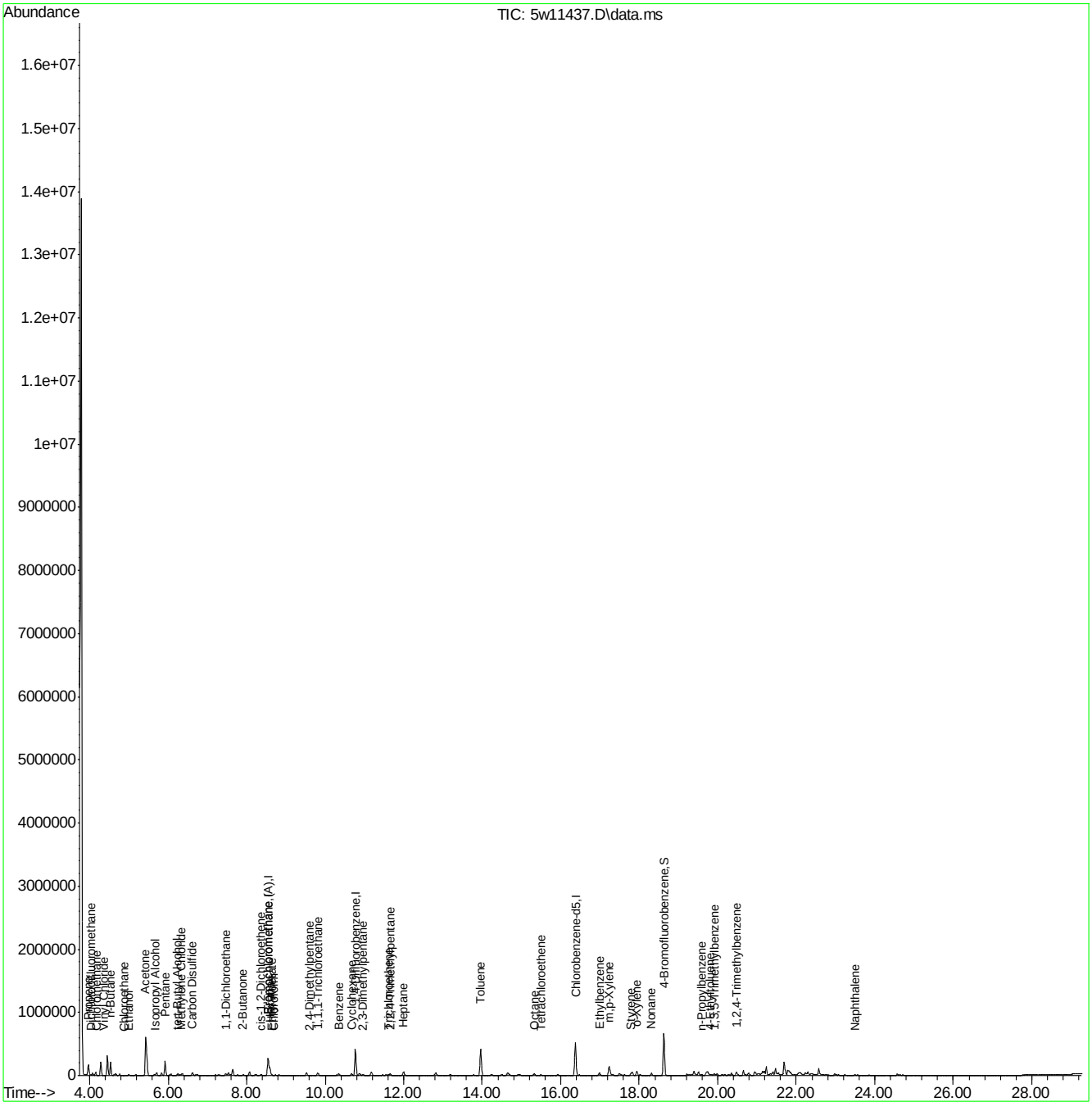
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Naphthalene	23.497	128	12836	0.32	ppb(v	98

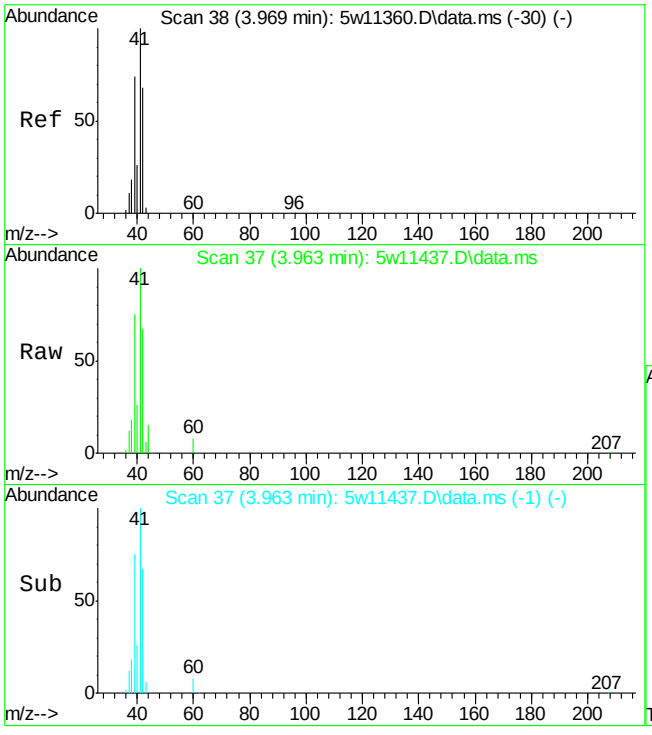
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11437.D
Acq On : 8 May 2015 3:44 pm
Operator : mikel1
Sample : JB94203-1
Misc : MS84855,v5w449,100,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 09 09:05:25 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

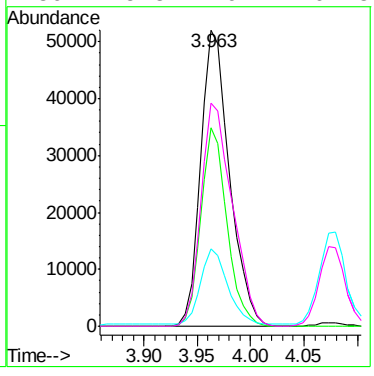


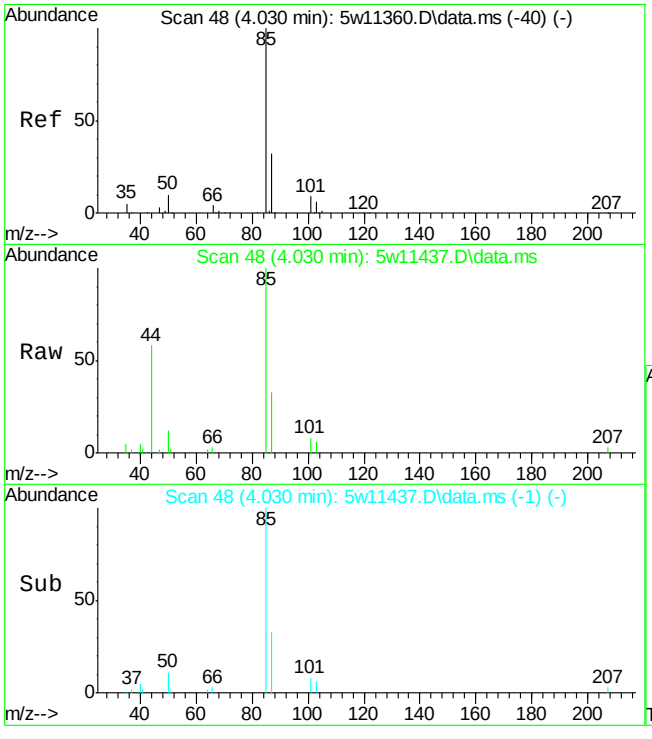


#5
Propene
Concen: 10.97 ppb(v)
RT: 3.963 min Scan# 37
Delta R.T. -0.006 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 41 Resp: 96842

Ion	Ratio	Lower	Upper
41	100		
42	67.1	45.0	83.6
40	26.2	17.9	33.3
39	75.3	49.7	92.3

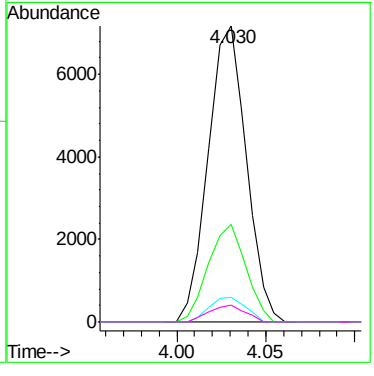


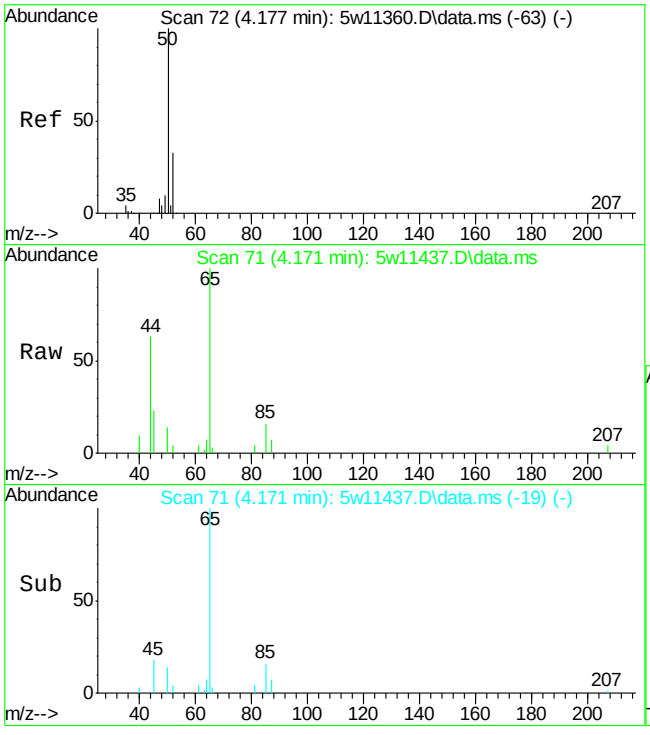


#6
Dichlorodifluoromethane
Concen: 0.34 ppb(v)
RT: 4.030 min Scan# 48
Delta R.T. -0.006 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 85 Resp: 10660

Ion	Ratio	Lower	Upper
85	100		
87	33.2	22.7	42.1
101	8.4	6.0	11.2
103	5.6	4.1	7.5

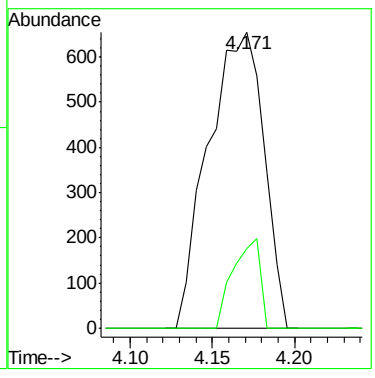


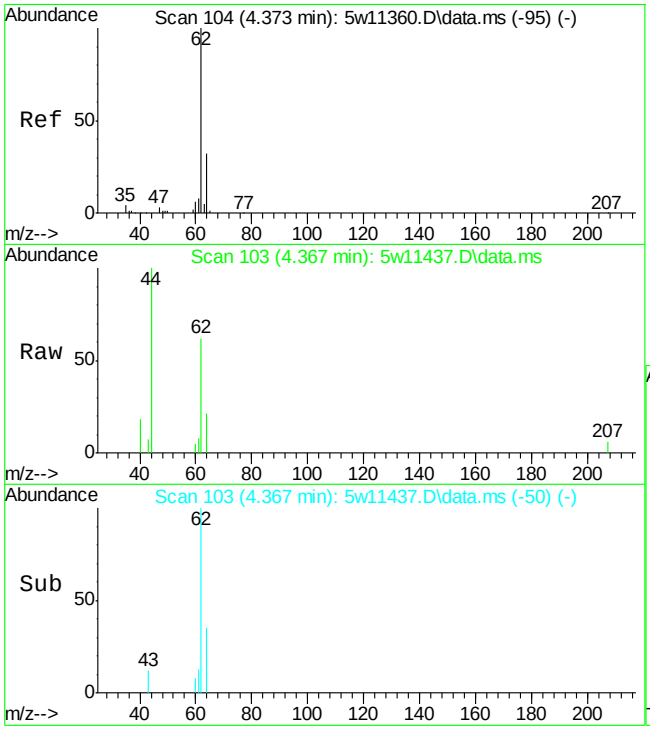


#8
Chloromethane
Concen: 0.15 ppb(v)
RT: 4.171 min Scan# 71
Delta R.T. -0.012 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 50 Resp: 1534

Ion	Ratio	Lower	Upper
50	100		
52	26.9	23.2	43.0

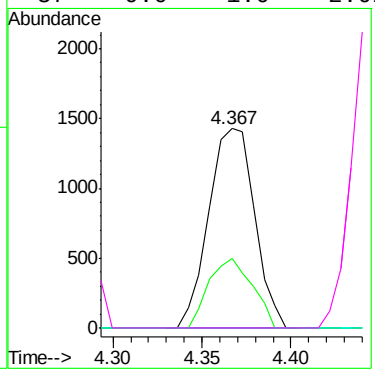


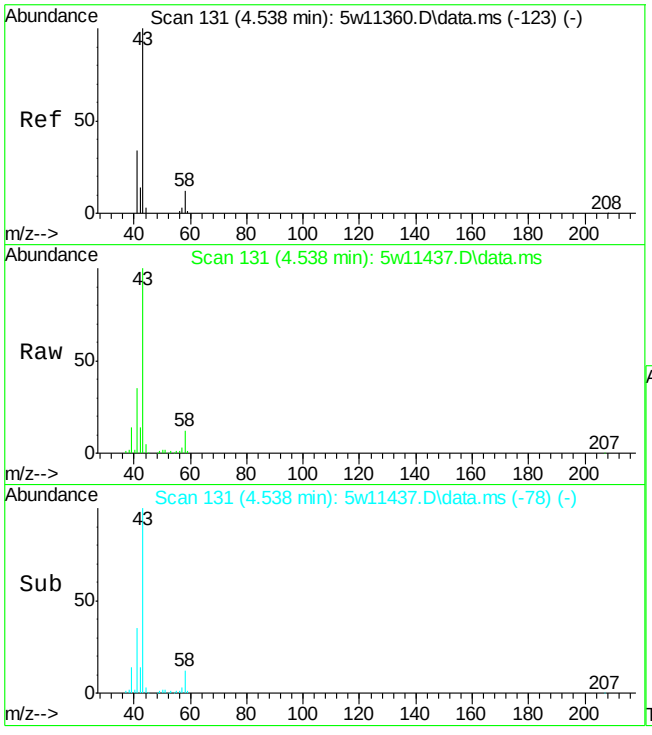


#10
Vinyl Chloride
Concen: 0.21 ppb(v)
RT: 4.367 min Scan# 103
Delta R.T. -0.006 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 62 Resp: 2557

Ion	Ratio	Lower	Upper
62	100		
64	34.7	22.7	42.1
35	0.0	2.6	4.8#
37	0.0	1.0	2.0#

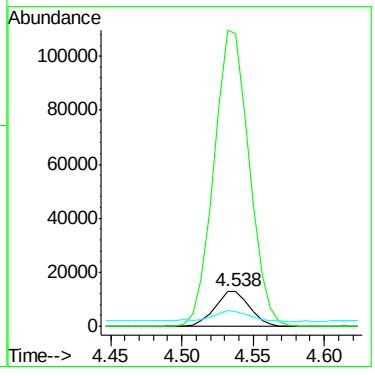


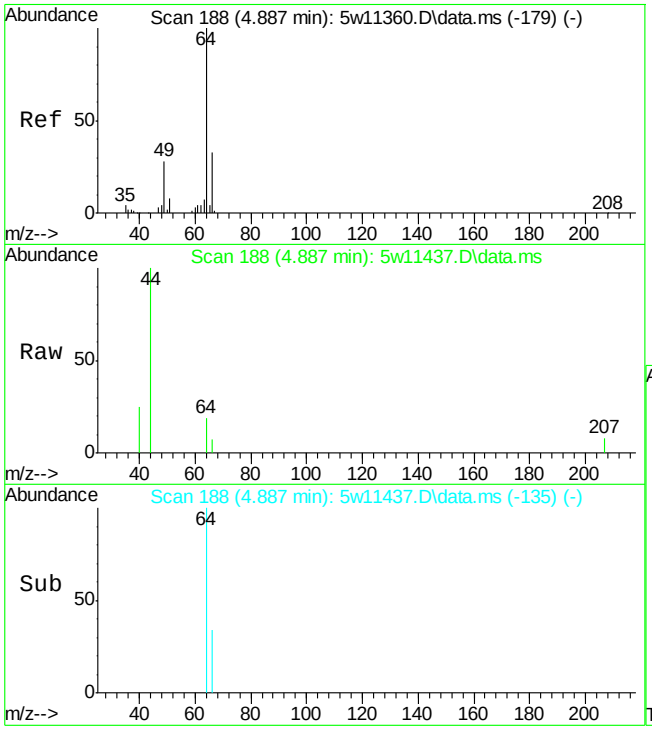


#12
n-Butane
Concen: 12.49 ppb(v)
RT: 4.538 min Scan# 131
Delta R.T. -0.006 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 58 Resp: 21917

Ion	Ratio	Lower	Upper
58	100		
43	834.2	583.8	1084.2
44	43.1	25.6	47.6

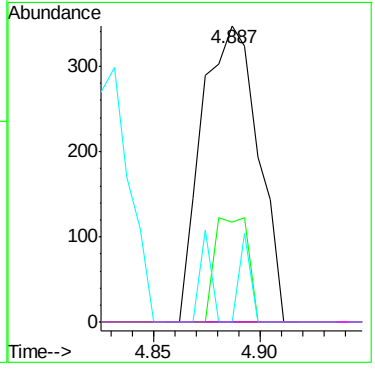


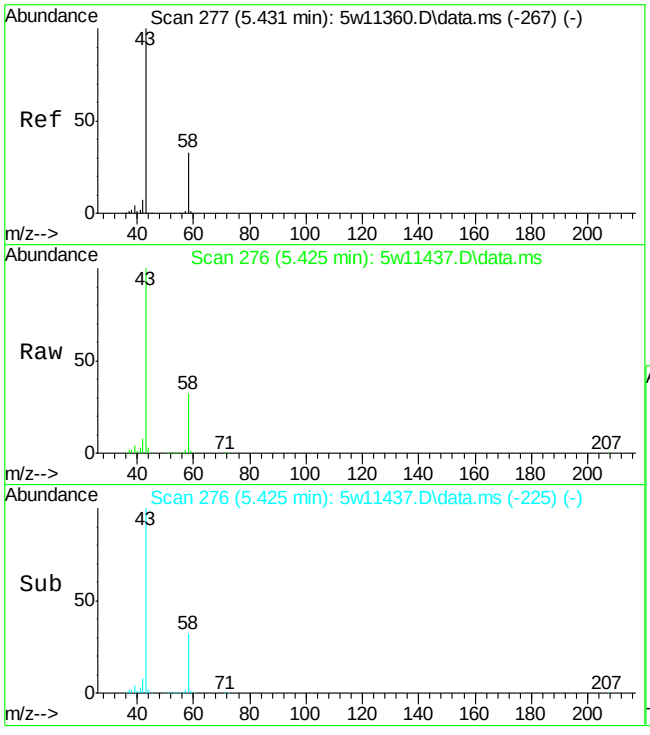


#14
Chloroethane
Concen: 0.11 ppb(v)
RT: 4.887 min Scan# 188
Delta R.T. -0.006 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 64 Resp: 640

Ion	Ratio	Lower	Upper
64	100		
66	34.0	22.3	41.5
49	0.0	19.3	35.8#
51	0.0	6.2	11.6#

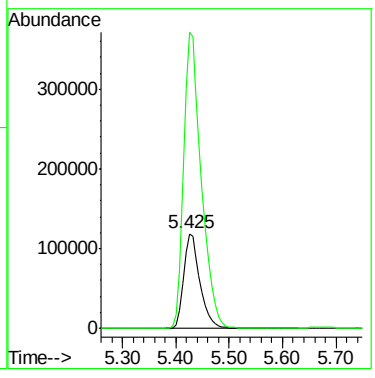


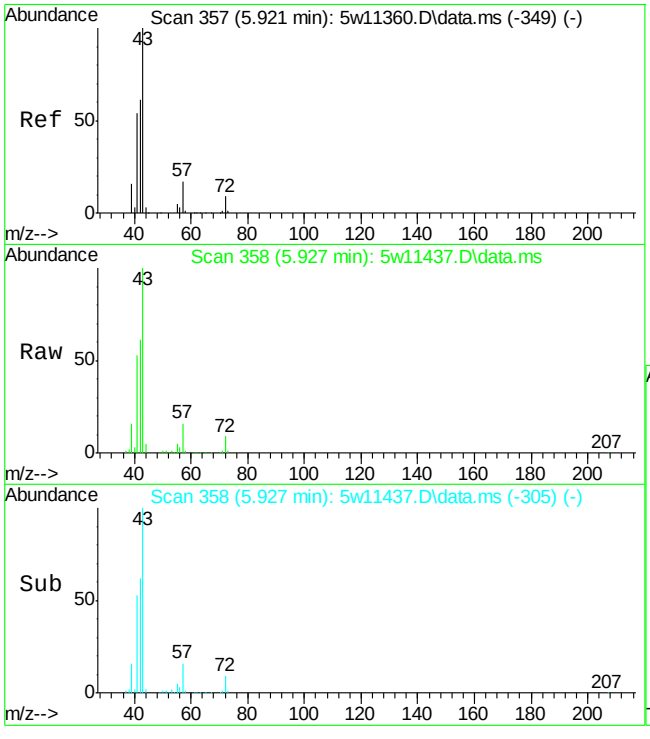


#21
Acetone
Concen: 44.22 ppb(v)
RT: 5.425 min Scan# 276
Delta R.T. -0.019 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 58 Resp: 254264

Ion	Ratio	Lower	Upper
58	100		
43	313.3	217.8	404.6

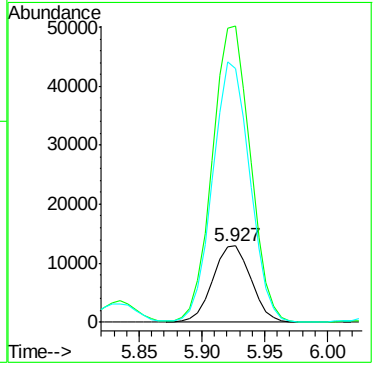


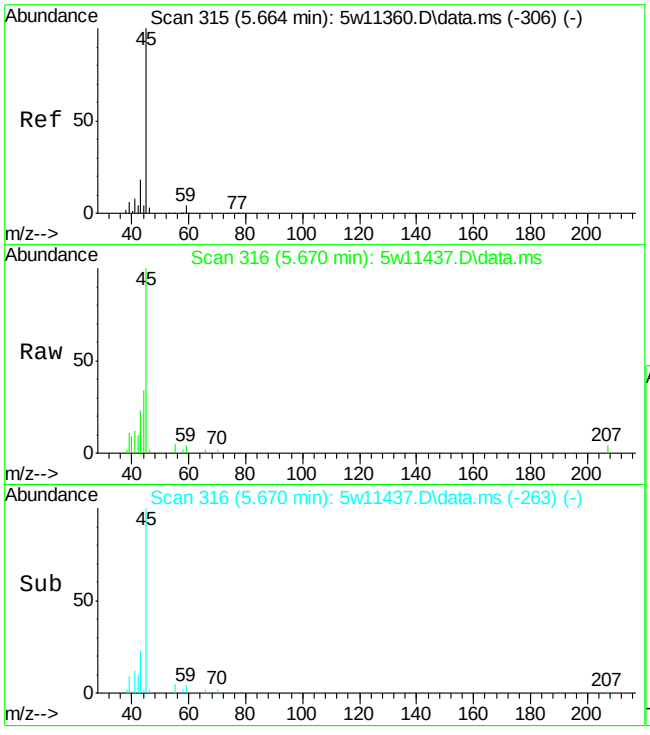


#22
Pentane
Concen: 9.21 ppb(v)
RT: 5.927 min Scan# 358
Delta R.T. -0.006 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 57 Resp: 27103

Ion	Ratio	Lower	Upper
57	100		
42	389.6	262.5	487.5
41	334.3	225.7	419.1

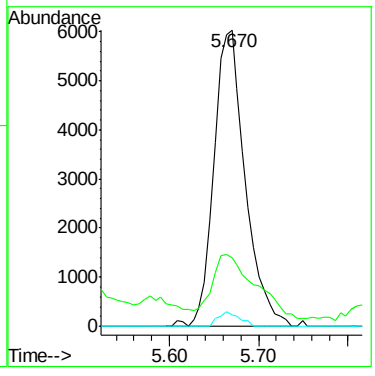


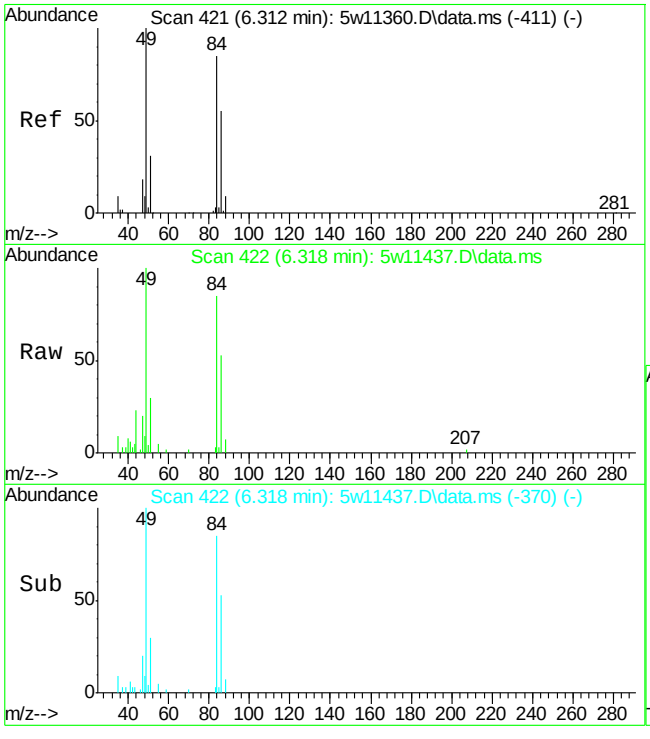


#25
Isopropyl Alcohol
Concen: 0.65 ppb(v)
RT: 5.670 min Scan# 316
Delta R.T. -0.006 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 45 Resp: 14731

Ion	Ratio	Lower	Upper
45	100		
43	23.0	14.0	26.0
59	4.0	3.5	6.5

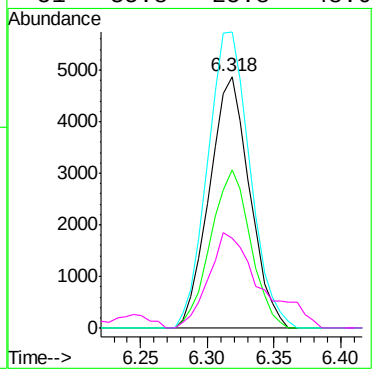


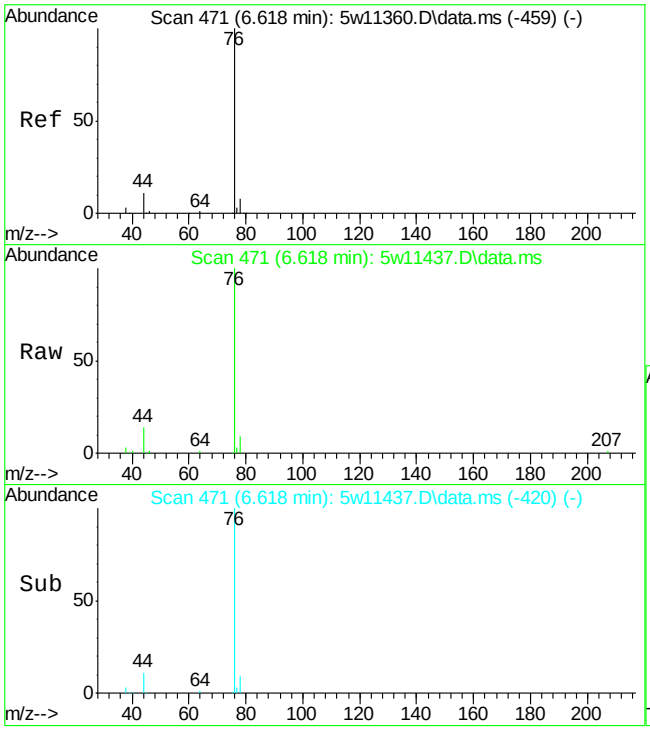


#28
Methylene Chloride
Concen: 0.90 ppb(v)
RT: 6.318 min Scan# 422
Delta R.T. -0.012 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 84 Resp: 10216

Ion	Ratio	Lower	Upper
84	100		
86	62.8	44.7	83.1
49	117.6	80.9	150.3
51	35.8	25.8	48.0

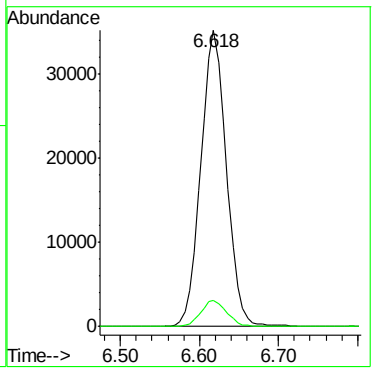


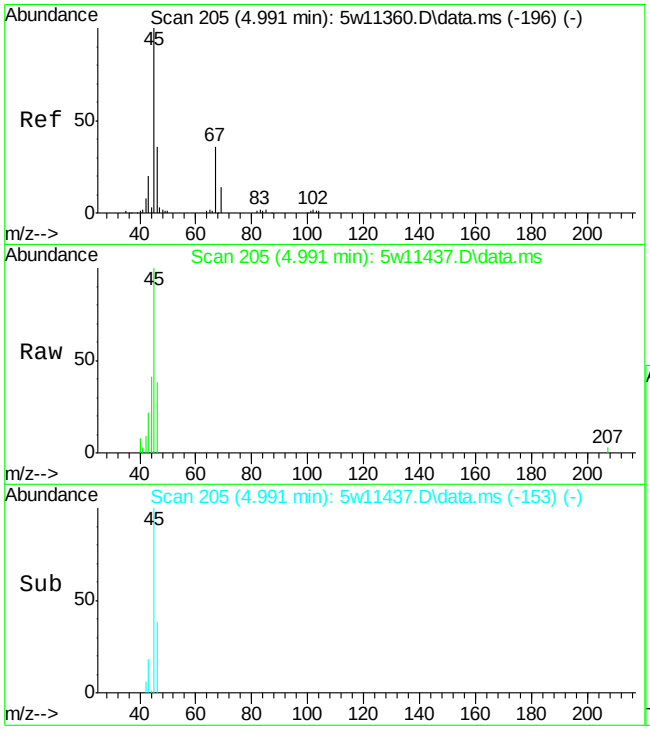


#29
Carbon Disulfide
Concen: 2.17 ppb(v)
RT: 6.618 min Scan# 471
Delta R.T. -0.019 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 76 Resp: 78629

Ion	Ratio	Lower	Upper
76	100		
78	8.9	6.6	12.4

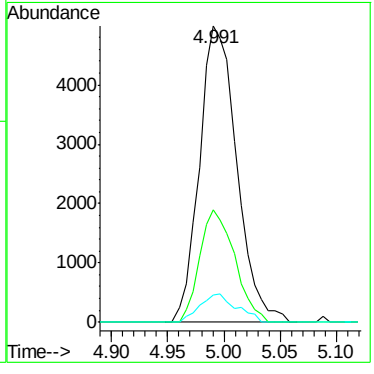


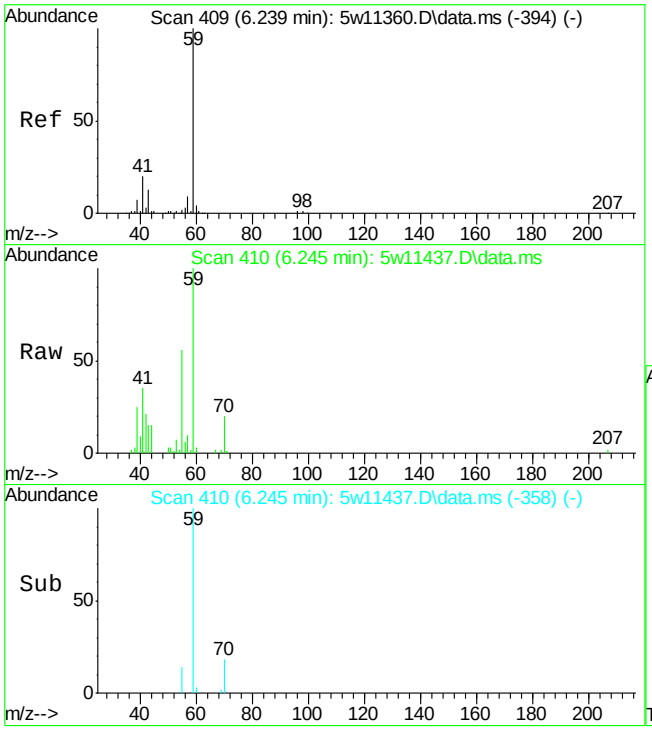


#30
Ethanol
Concen: 1.99 ppb(v)
RT: 4.991 min Scan# 205
Delta R.T. -0.012 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 45 Resp: 11532

Ion	Ratio	Lower	Upper
45	100		
46	37.7	24.6	45.6
42	9.0	5.5	10.1

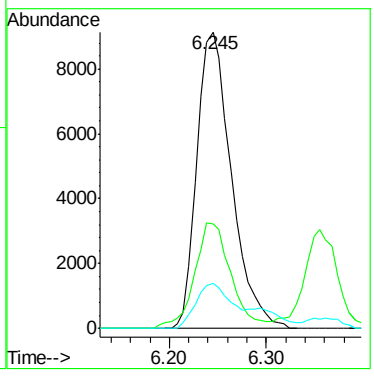


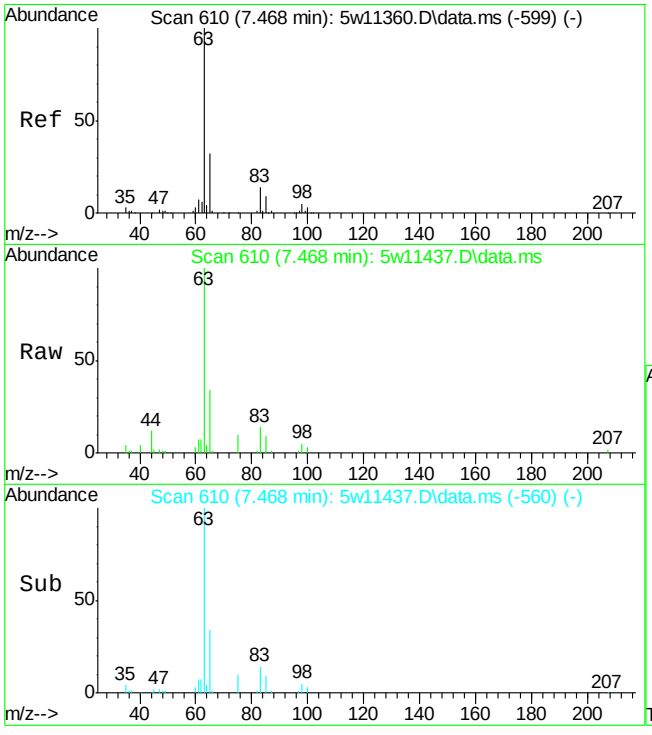


#34
tert-Butyl Alcohol
Concen: 0.79 ppb(v)
RT: 6.245 min Scan# 410
Delta R.T. -0.012 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 59 Resp: 22582

Ion	Ratio	Lower	Upper
59	100		
41	35.2	13.4	24.8#
43	15.3	9.3	17.3

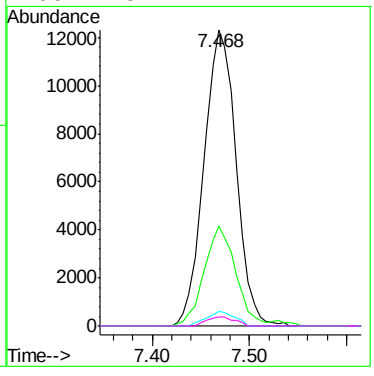


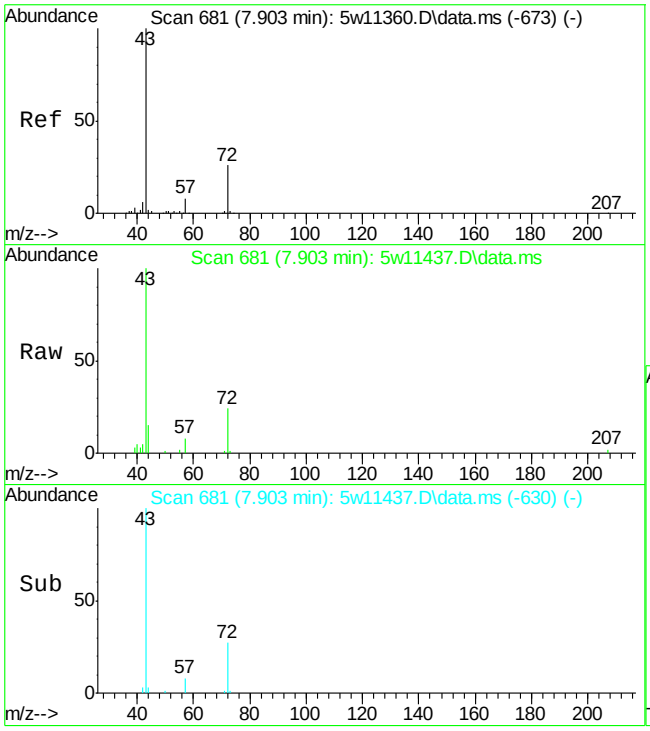


#37
1,1-Dichloroethane
Concen: 1.24 ppb(v)
RT: 7.468 min Scan# 610
Delta R.T. -0.025 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 63 Resp: 28217

Ion	Ratio	Lower	Upper
63	100		
65	33.9	22.2	41.2
98	5.1	3.6	6.8
100	3.2	2.2	4.2

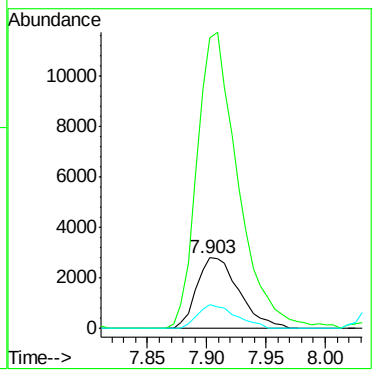


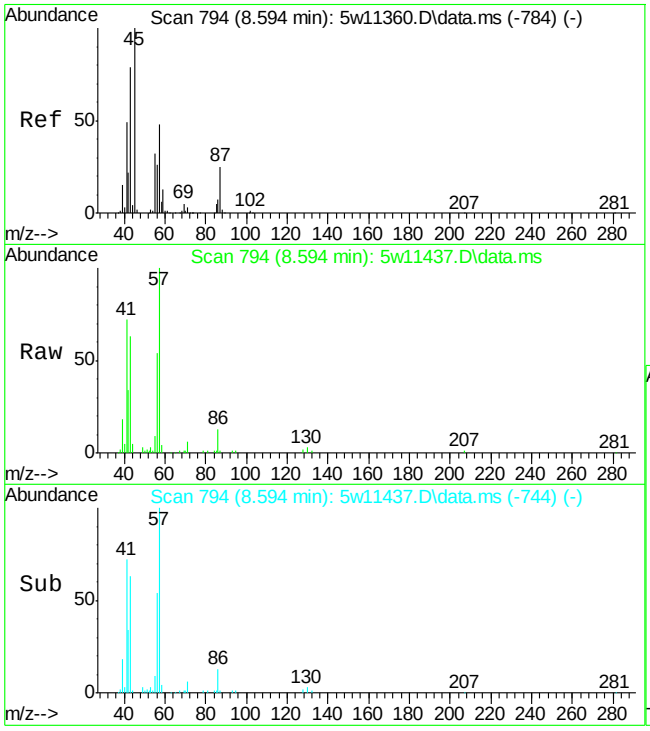


#38
2-Butanone
Concen: 1.08 ppb(v)
RT: 7.903 min Scan# 681
Delta R.T. -0.018 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 72 Resp: 6908

Ion	Ratio	Lower	Upper
72	100		
43	412.3	274.1	508.9
57	32.9	22.1	41.1

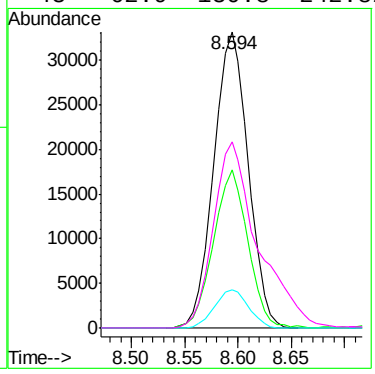


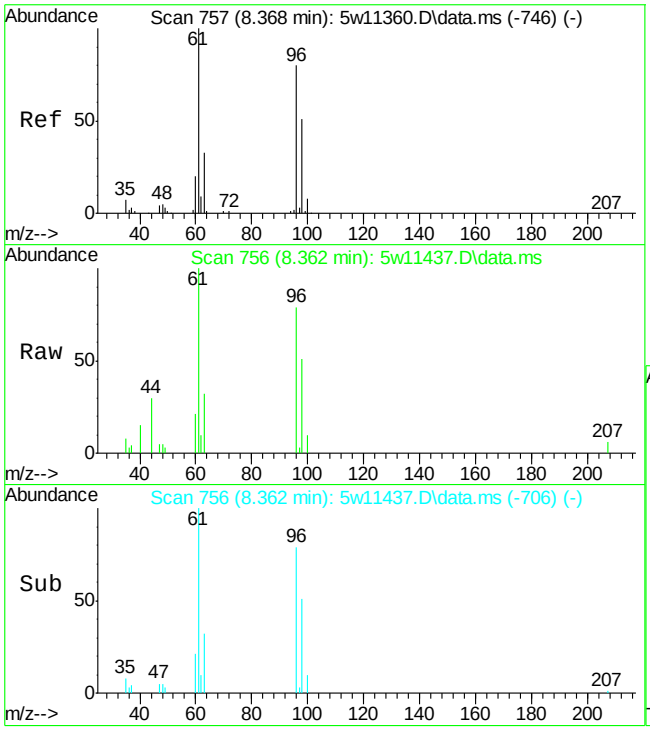


#39
Hexane
Concen: 3.61 ppb(v)
RT: 8.594 min Scan# 794
Delta R.T. -0.025 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 57 Resp: 74201

Ion	Ratio	Lower	Upper
57	100		
56	53.6	37.4	69.4
86	13.0	10.4	19.2
43	62.9	130.8	242.8#

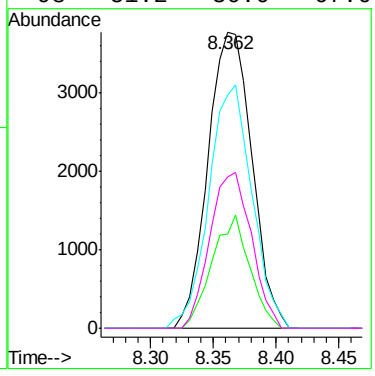


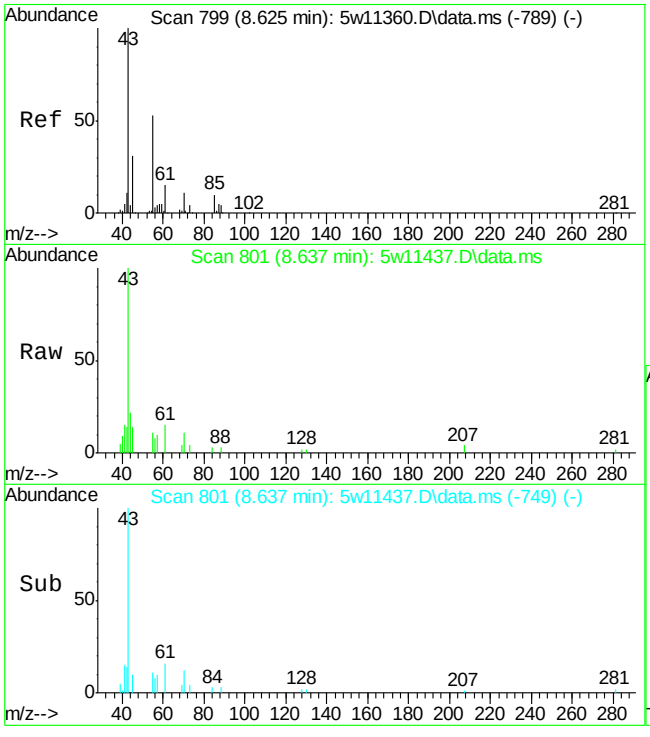


#40
cis-1,2-Dichloroethene
Concen: 0.53 ppb(v)
RT: 8.362 min Scan# 756
Delta R.T. -0.025 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 61 Resp: 9170

Ion	Ratio	Lower	Upper
61	100		
63	31.9	22.9	42.5
96	78.8	56.3	104.5
98	51.2	36.0	67.0

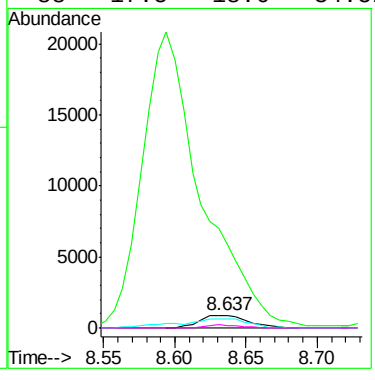


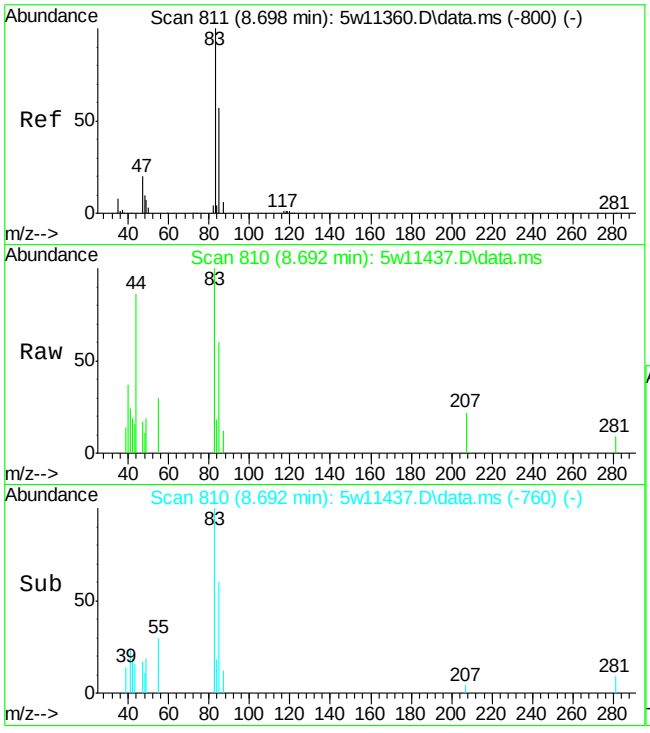


#42
Ethyl Acetate
Concen: 0.46 ppb(v)
RT: 8.637 min Scan# 801
Delta R.T. -0.012 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 61 Resp: 2078

Ion	Ratio	Lower	Upper
61	100		
43	651.6	556.0	1032.6
70	73.7	50.3	93.3
88	17.5	18.6	34.5#

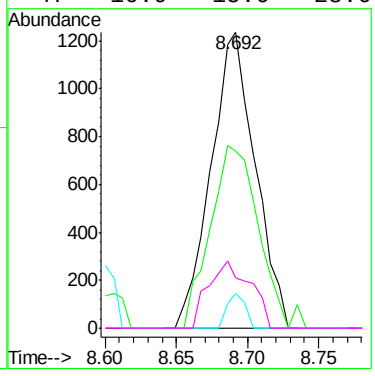


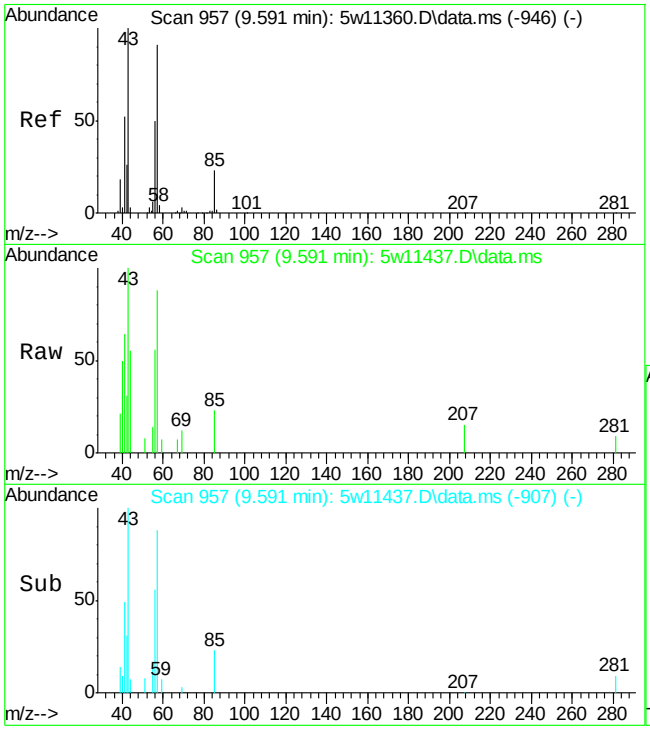


#44
Chloroform
Concen: 0.10 ppb(v)
RT: 8.692 min Scan# 810
Delta R.T. -0.025 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 83 Resp: 2671

Ion	Ratio	Lower	Upper
83	100		
85	59.9	45.0	83.6
87	11.8	7.3	13.5
47	16.9	15.0	28.0

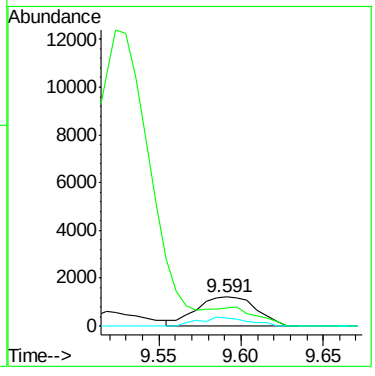


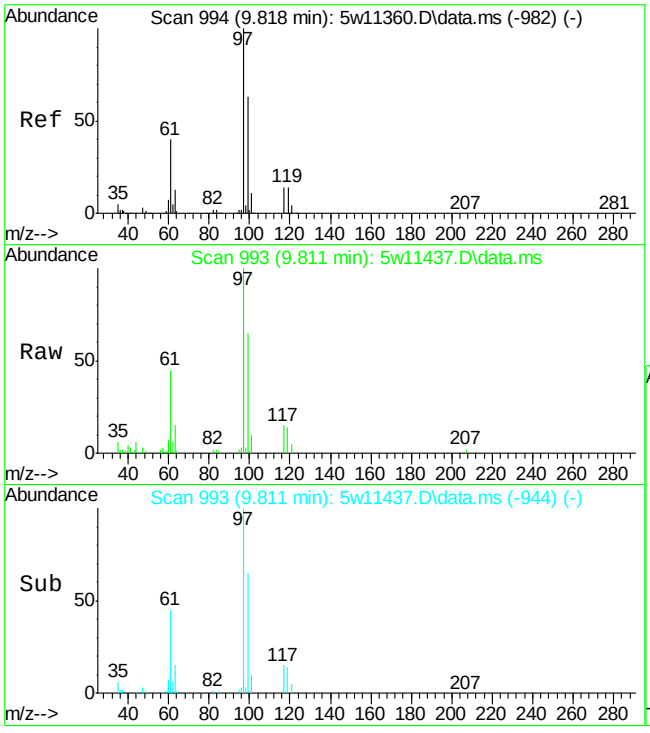


#45
2,4-Dimethylpentane
Concen: 0.14 ppb(v)
RT: 9.591 min Scan# 957
Delta R.T. -0.025 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 57 Resp: 3064

Ion	Ratio	Lower	Upper
57	100		
56	63.5	40.3	74.9
85	26.2	18.6	34.6

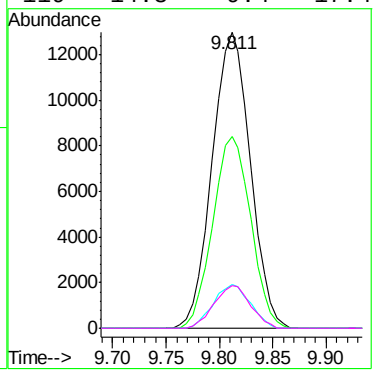


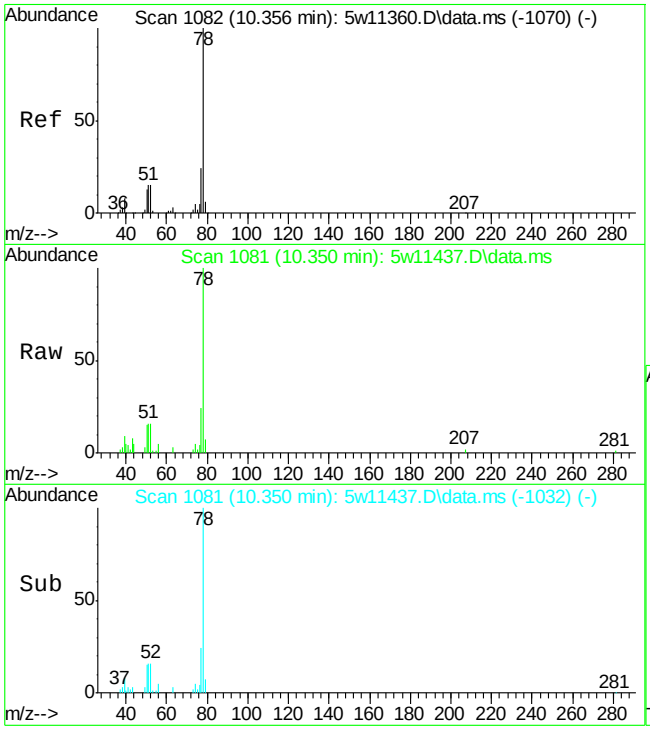


#47
1,1,1-Trichloroethane
Concen: 1.25 ppb(v)
RT: 9.811 min Scan# 993
Delta R.T. -0.031 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 97 Resp: 32272

Ion	Ratio	Lower	Upper
97	100		
99	64.8	44.9	83.3
117	14.7	10.1	18.7
119	14.3	9.4	17.4

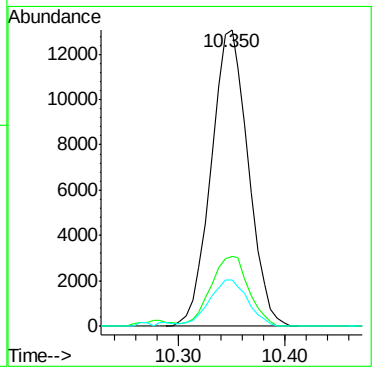


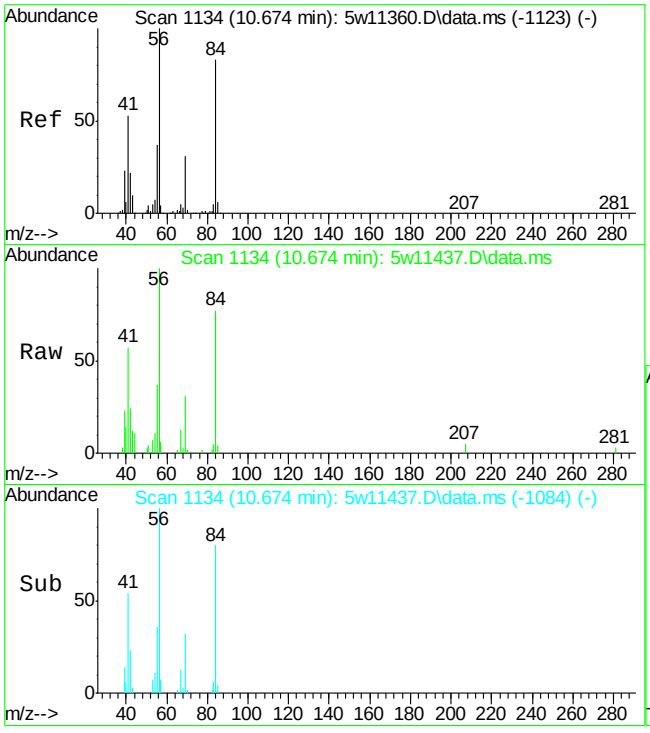


#49
Benzene
Concen: 0.77 ppb(v)
RT: 10.350 min Scan# 1081
Delta R.T. -0.031 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 78 Resp: 31375

Ion	Ratio	Lower	Upper
78	100		
77	23.6	16.6	30.8
51	15.8	10.6	19.6

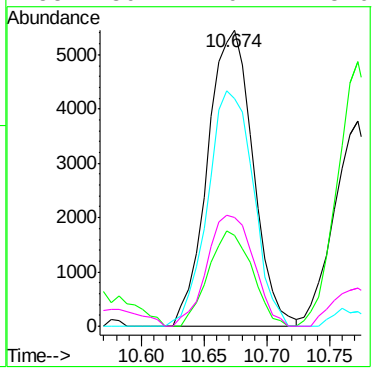


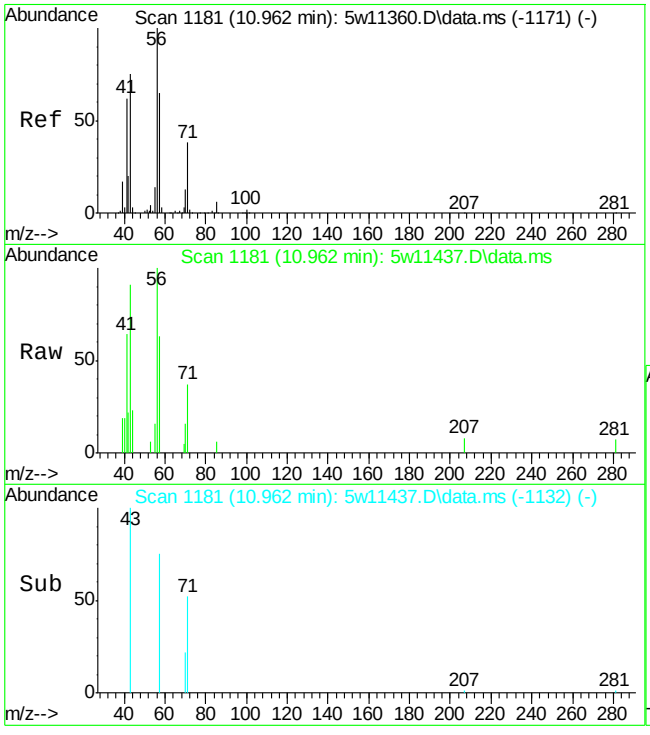


#51
Cyclohexane
Concen: 0.70 ppb(v)
RT: 10.674 min Scan# 1134
Delta R.T. -0.025 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 56 Resp: 13635

Ion	Ratio	Lower	Upper
56	100		
69	30.6	22.1	41.1
84	77.0	57.8	107.4
55	36.7	26.2	48.6

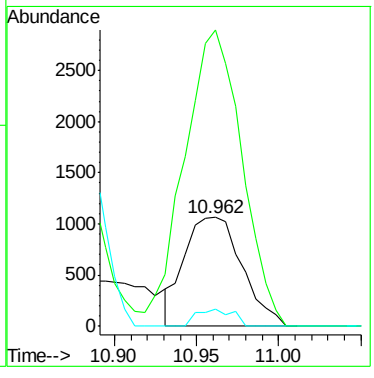


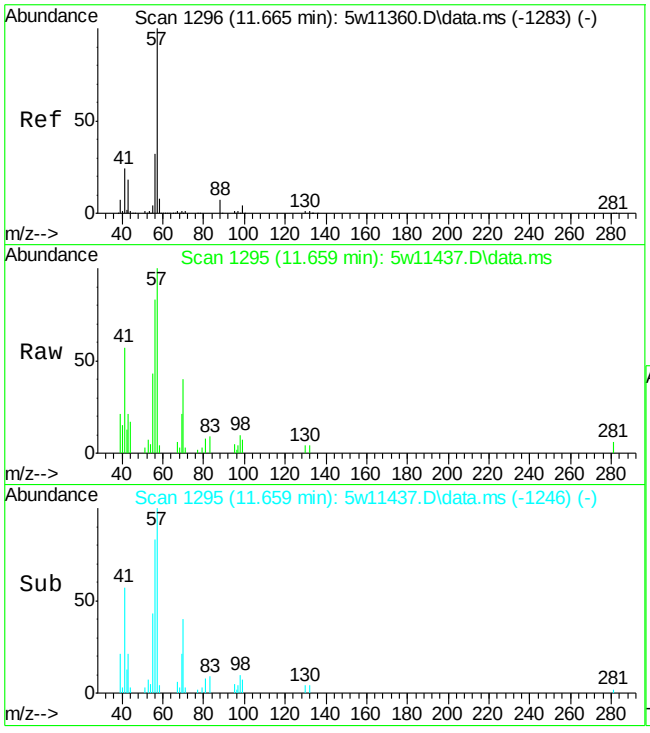


#52
2,3-Dimethylpentane
Concen: 0.32 ppb(v)
RT: 10.962 min Scan# 1181
Delta R.T. -0.031 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 71 Resp: 2585

Ion	Ratio	Lower	Upper
71	100		
56	273.0	183.3	340.5
85	15.8	10.8	20.0

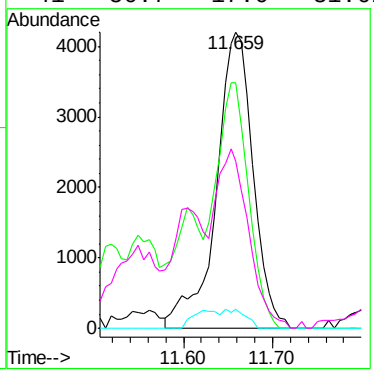


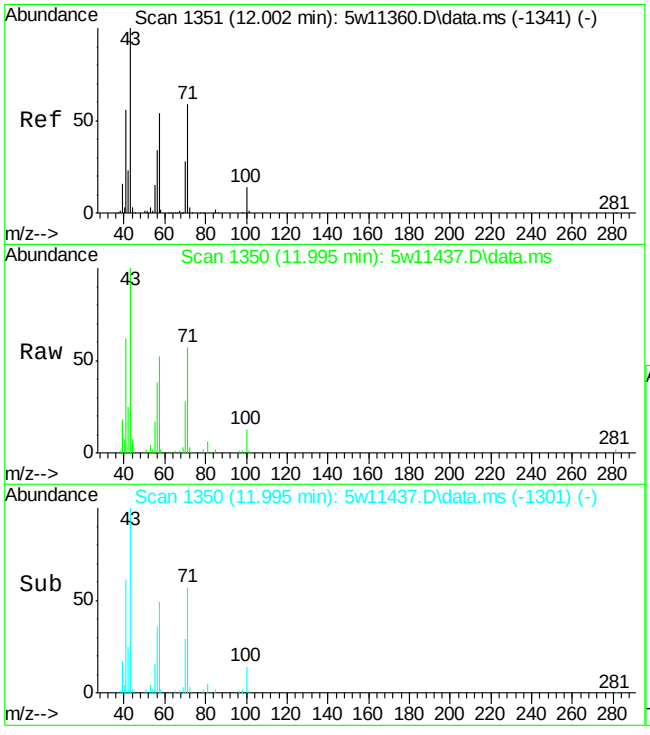


#54
2,2,4-Trimethylpentane
Concen: 0.21 ppb(v)
RT: 11.659 min Scan# 1295
Delta R.T. -0.031 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 57 Resp: 12110

Ion	Ratio	Lower	Upper
57	100		
56	82.9	23.2	43.0#
99	6.6	3.4	6.4#
41	56.7	17.0	31.6#

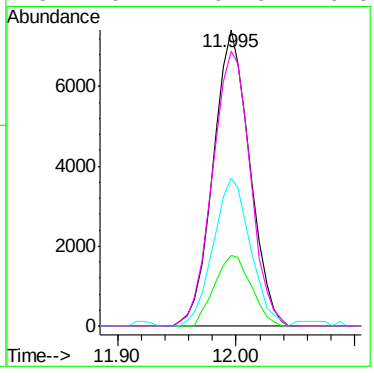


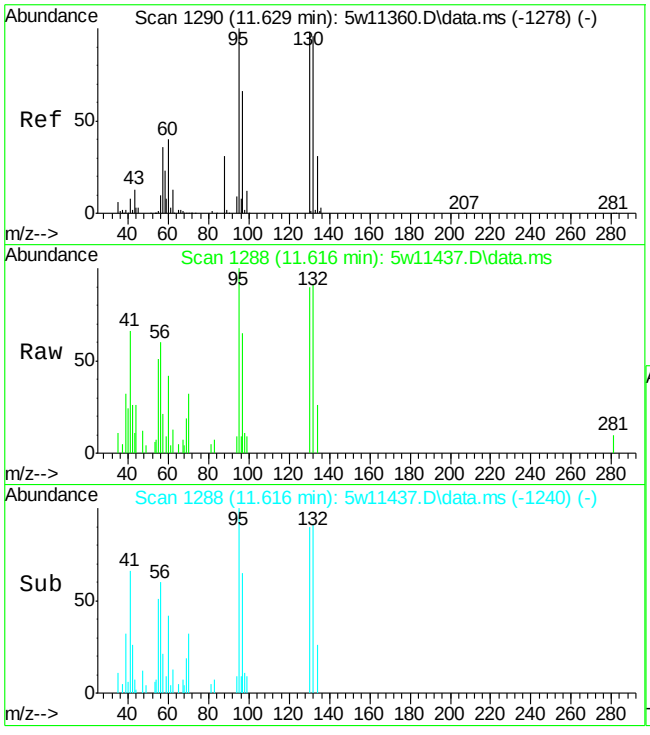


#55
Heptane
Concen: 1.37 ppb(v)
RT: 11.995 min Scan# 1350
Delta R.T. -0.031 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 71 Resp: 15933

Ion	Ratio	Lower	Upper
71	100		
100	23.7	18.3	33.9
70	50.0	33.5	62.1
57	92.7	64.9	120.5

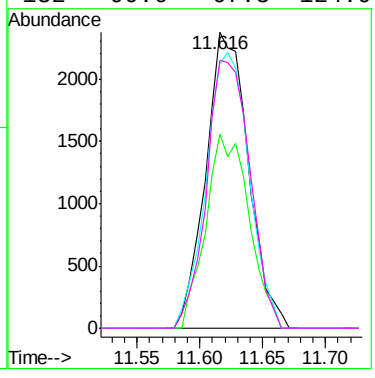


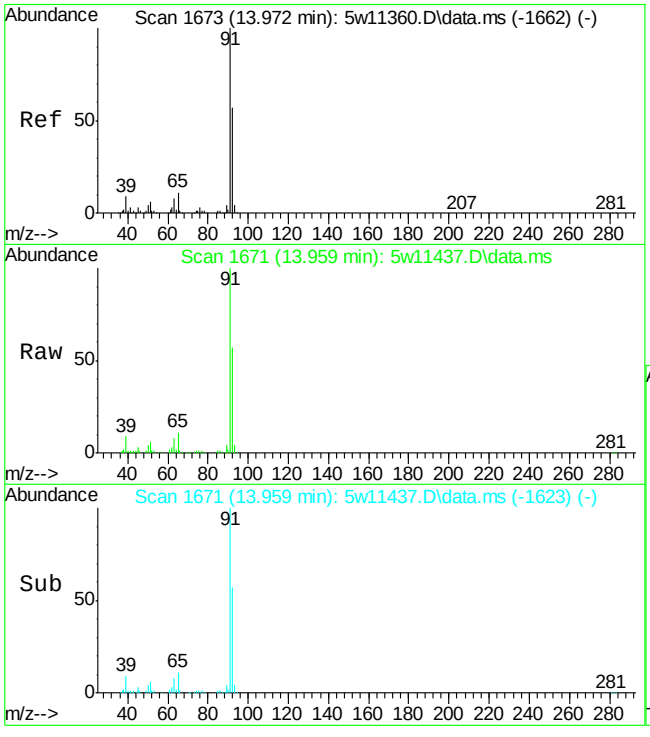


#56
Trichloroethene
Concen: 0.32 ppb(v)
RT: 11.616 min Scan# 1288
Delta R.T. -0.037 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 95 Resp: 5582

Ion	Ratio	Lower	Upper
95	100		
97	65.4	46.0	85.4
130	89.5	69.8	129.6
132	90.6	67.3	124.9

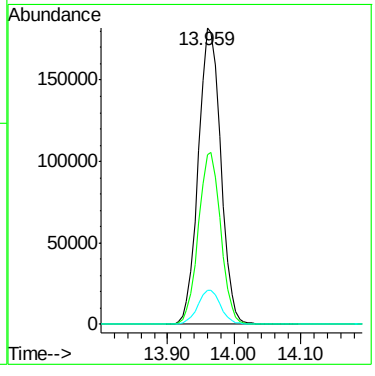


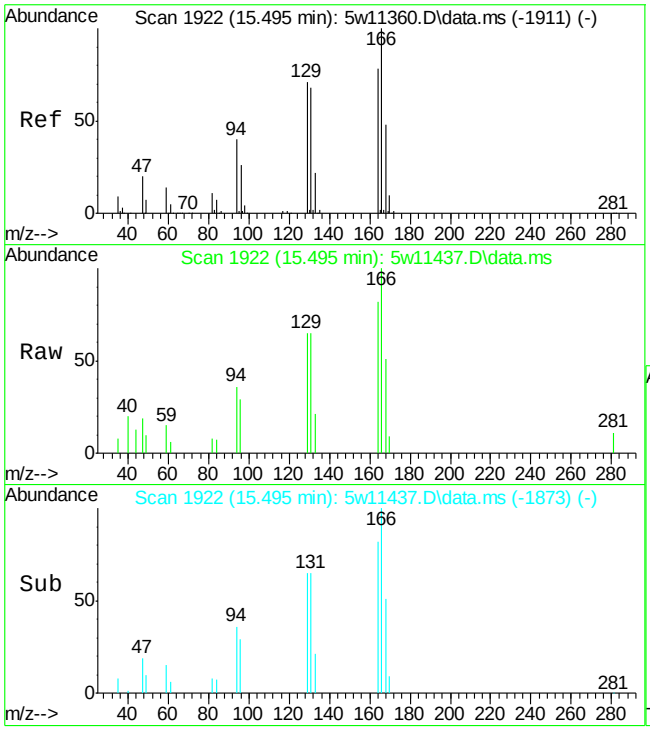


#66
Toluene
Concen: 9.25 ppb(v)
RT: 13.959 min Scan# 1671
Delta R.T. -0.037 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 91 Resp: 422947

Ion	Ratio	Lower	Upper
91	100		
92	57.2	40.3	74.9
65	11.3	7.6	14.0

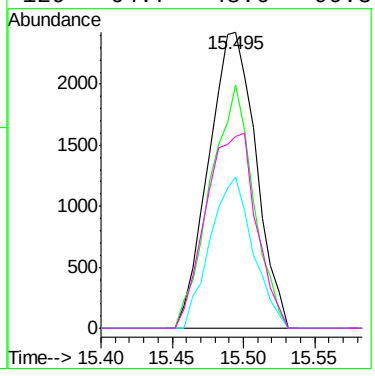


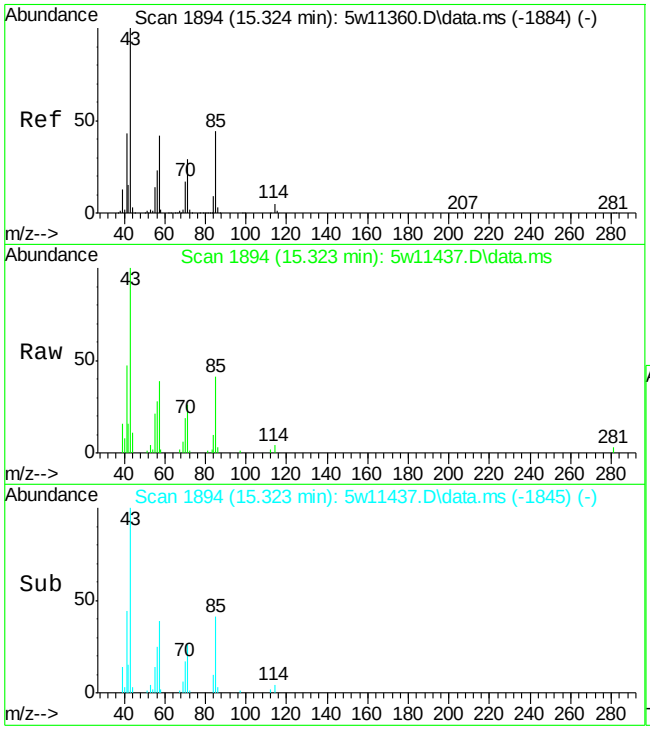


#71
Tetrachloroethene
Concen: 0.25 ppb(v)
RT: 15.495 min Scan# 1922
Delta R.T. -0.031 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion:166 Resp: 5613

Ion	Ratio	Lower	Upper
166	100		
164	82.3	54.3	100.9
168	51.1	33.9	62.9
129	64.7	48.6	90.3

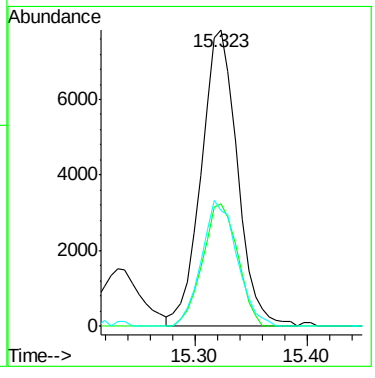


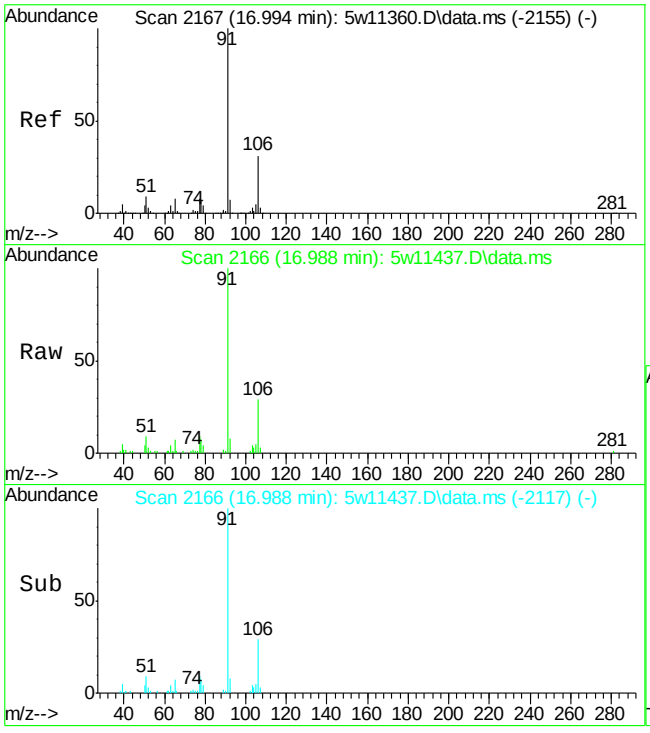


#73
Octane
Concen: 0.62 ppb(v)
RT: 15.323 min Scan# 1894
Delta R.T. -0.031 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 43 Resp: 17486

Ion	Ratio	Lower	Upper
43	100		
85	41.3	31.6	58.8
57	39.2	29.5	54.7

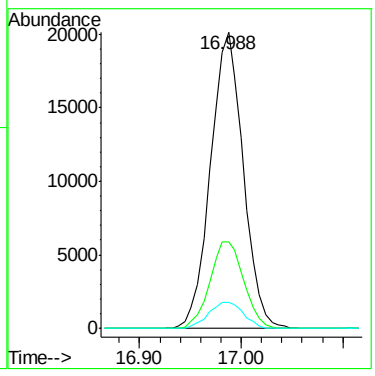


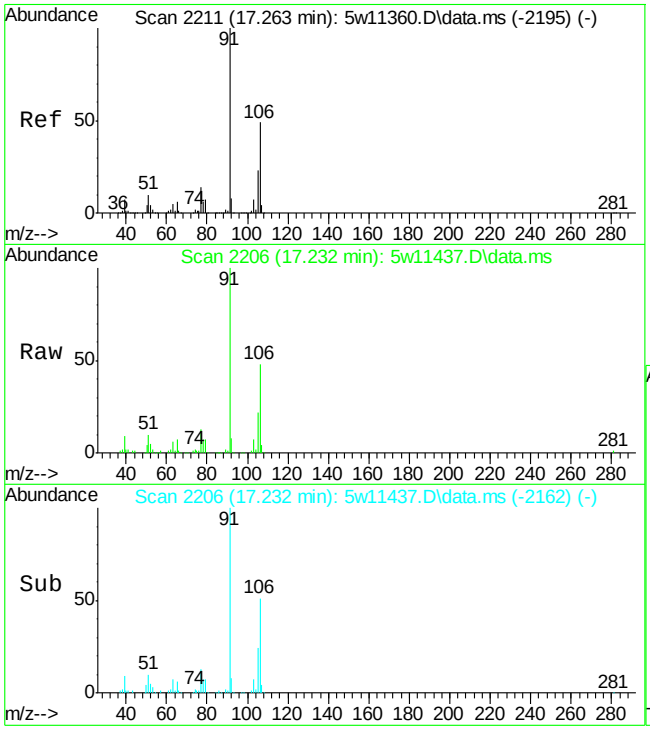


#77
Ethylbenzene
Concen: 0.79 ppb(v)
RT: 16.988 min Scan# 2166
Delta R.T. -0.031 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 91 Resp: 45088

Ion	Ratio	Lower	Upper
91	100		
106	29.2	21.9	40.7
77	8.9	6.0	11.2

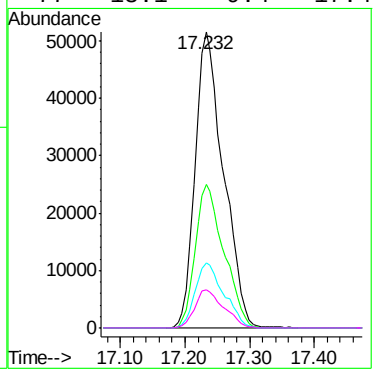


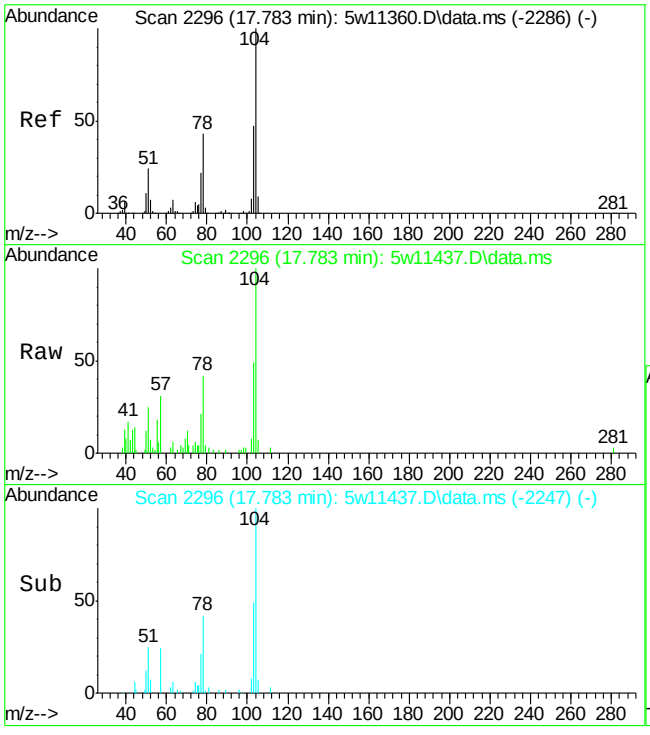


#78
m,p-Xylene
Concen: 3.43 ppb(v)
RT: 17.232 min Scan# 2206
Delta R.T. -0.061 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 91 Resp: 156387

Ion	Ratio	Lower	Upper
91	100		
106	48.5	35.1	65.1
105	22.0	16.0	29.8
77	13.1	9.4	17.4

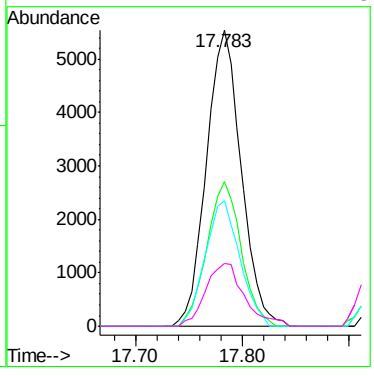


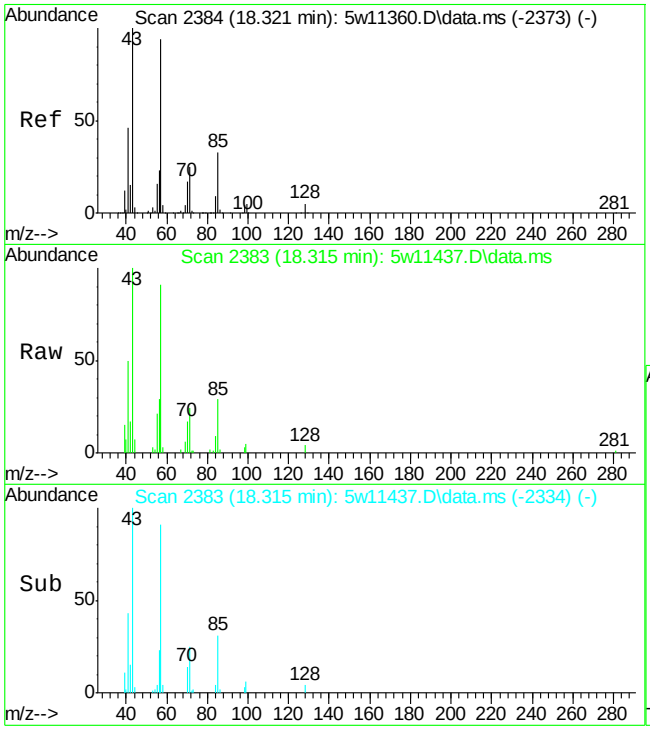


#79
Styrene
Concen: 0.40 ppb(v)
RT: 17.783 min Scan# 2296
Delta R.T. -0.031 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion:104 Resp: 12520

Ion	Ratio	Lower	Upper
104	100		
103	49.0	33.2	61.6
78	42.5	29.1	54.1
77	21.4	14.7	27.3

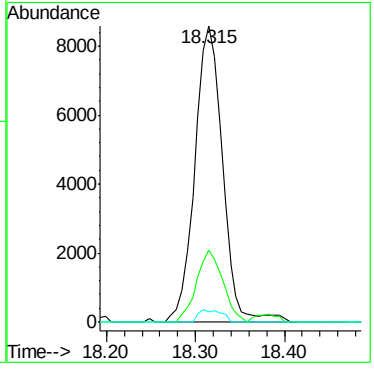


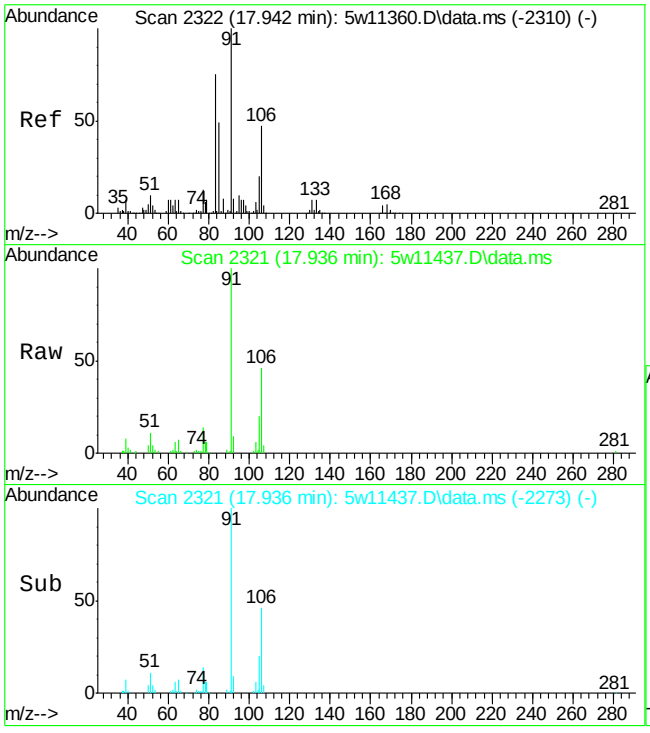


#80
Nonane
Concen: 0.65 ppb(v)
RT: 18.315 min Scan# 2383
Delta R.T. -0.031 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 43 Resp: 18582

Ion	Ratio	Lower	Upper
43	100		
71	24.3	18.4	34.2
128	3.6	3.6	6.8#

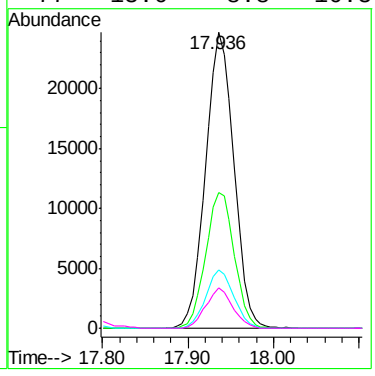


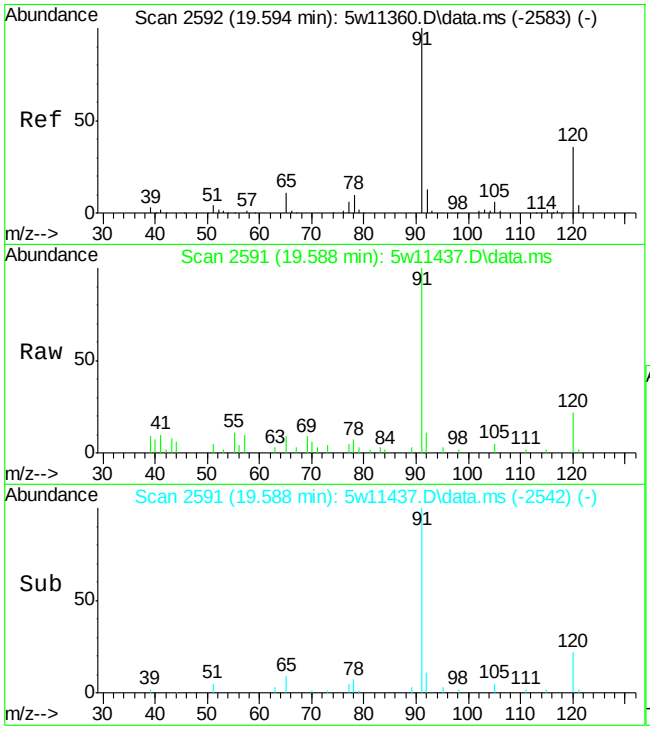


#81
o-Xylene
Concen: 1.28 ppb(v)
RT: 17.936 min Scan# 2321
Delta R.T. -0.037 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion: 91 Resp: 56728

Ion	Ratio	Lower	Upper
91	100		
106	45.9	33.5	62.1
105	19.8	13.4	24.8
77	13.6	8.8	16.3

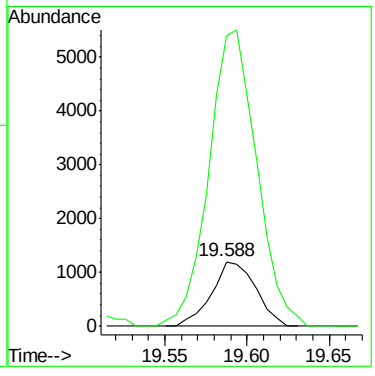


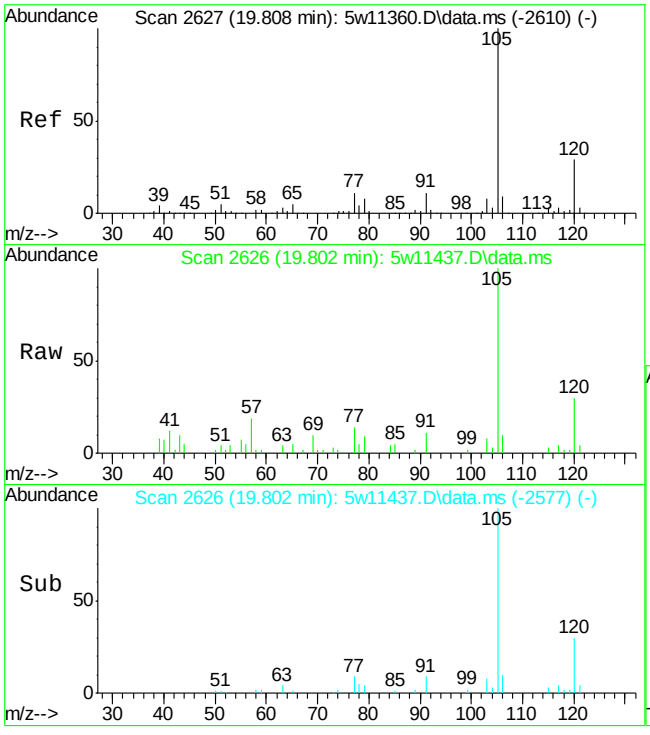


#88
n-Propylbenzene
Concen: 0.14 ppb(v)
RT: 19.588 min Scan# 2591
Delta R.T. -0.031 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion:120 Resp: 2228

Ion	Ratio	Lower	Upper
120	100		
91	454.0	323.0	599.8

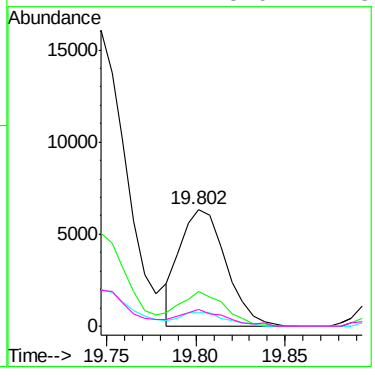


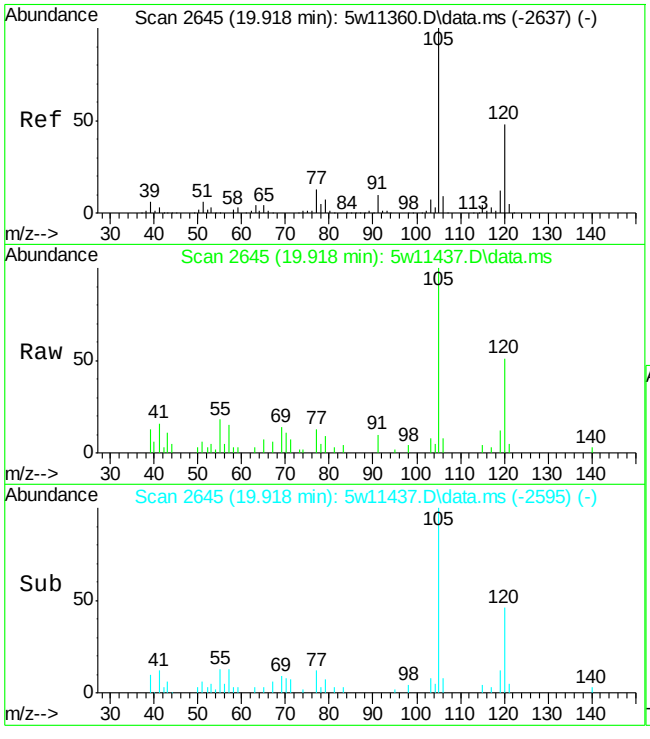


#90
4-Ethyltoluene
Concen: 0.19 ppb(v)
RT: 19.802 min Scan# 2626
Delta R.T. -0.031 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion:105 Resp: 11331

Ion	Ratio	Lower	Upper
105	100		
120	29.6	20.6	38.2
91	11.3	7.6	14.0
77	14.2	8.0	14.8

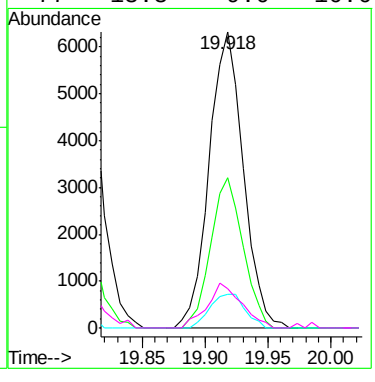


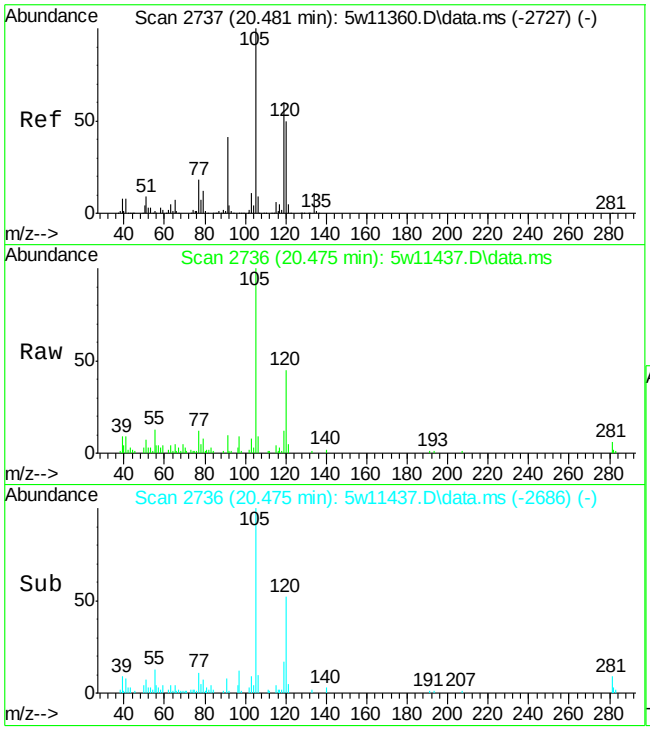


#91
1,3,5-Trimethylbenzene
Concen: 0.24 ppb(v)
RT: 19.918 min Scan# 2645
Delta R.T. -0.025 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion:105 Resp: 11899

Ion	Ratio	Lower	Upper
105	100		
120	50.8	34.2	63.4
119	11.6	8.8	16.4
77	13.3	9.0	16.6

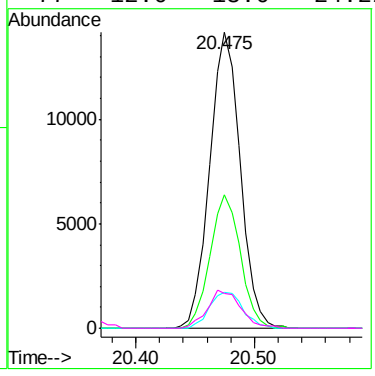


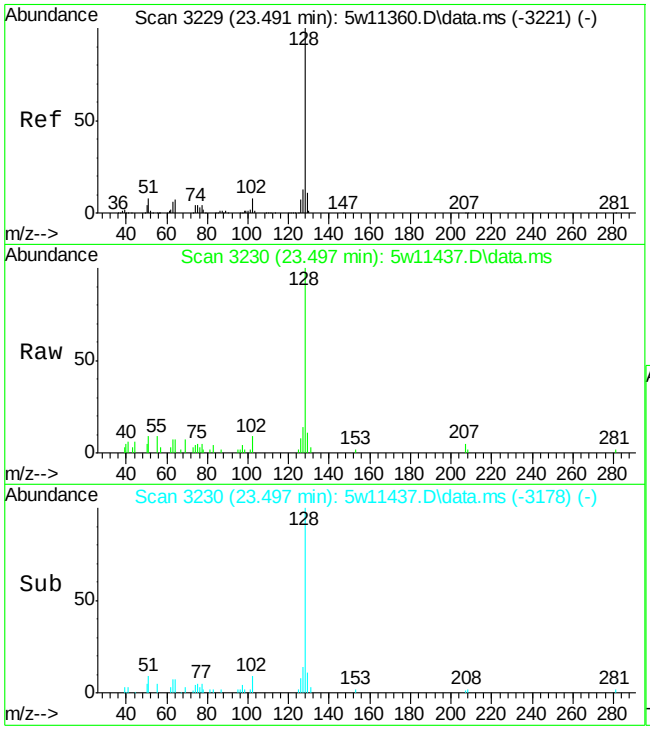


#94
1,2,4-Trimethylbenzene
Concen: 0.51 ppb(v)
RT: 20.475 min Scan# 2736
Delta R.T. -0.025 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion:105 Resp: 25541

Ion	Ratio	Lower	Upper
105	100		
120	45.1	35.0	65.0
119	12.3	45.2	84.0#
77	12.0	13.0	24.2#

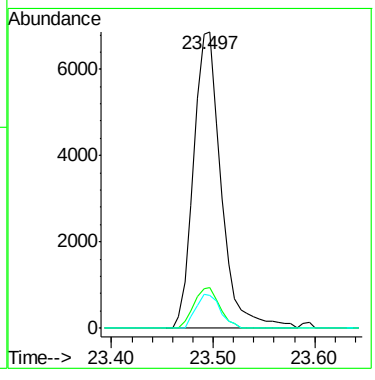




#104
Naphthalene
Concen: 0.32 ppb(v)
RT: 23.497 min Scan# 3230
Delta R.T. -0.012 min
Lab File: 5w11437.D
Acq: 8 May 2015 3:44 pm

Tgt Ion:128 Resp: 12836

Ion	Ratio	Lower	Upper
128	100		
127	13.5	8.8	16.4
129	11.1	7.6	14.2



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 05/13/15 12:15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11439.D
Acq On : 8 May 2015 5:10 pm
Operator : mikel1
Sample : JB94203-2
Misc : MS84855,v5w449,100,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 13 08:04:46 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

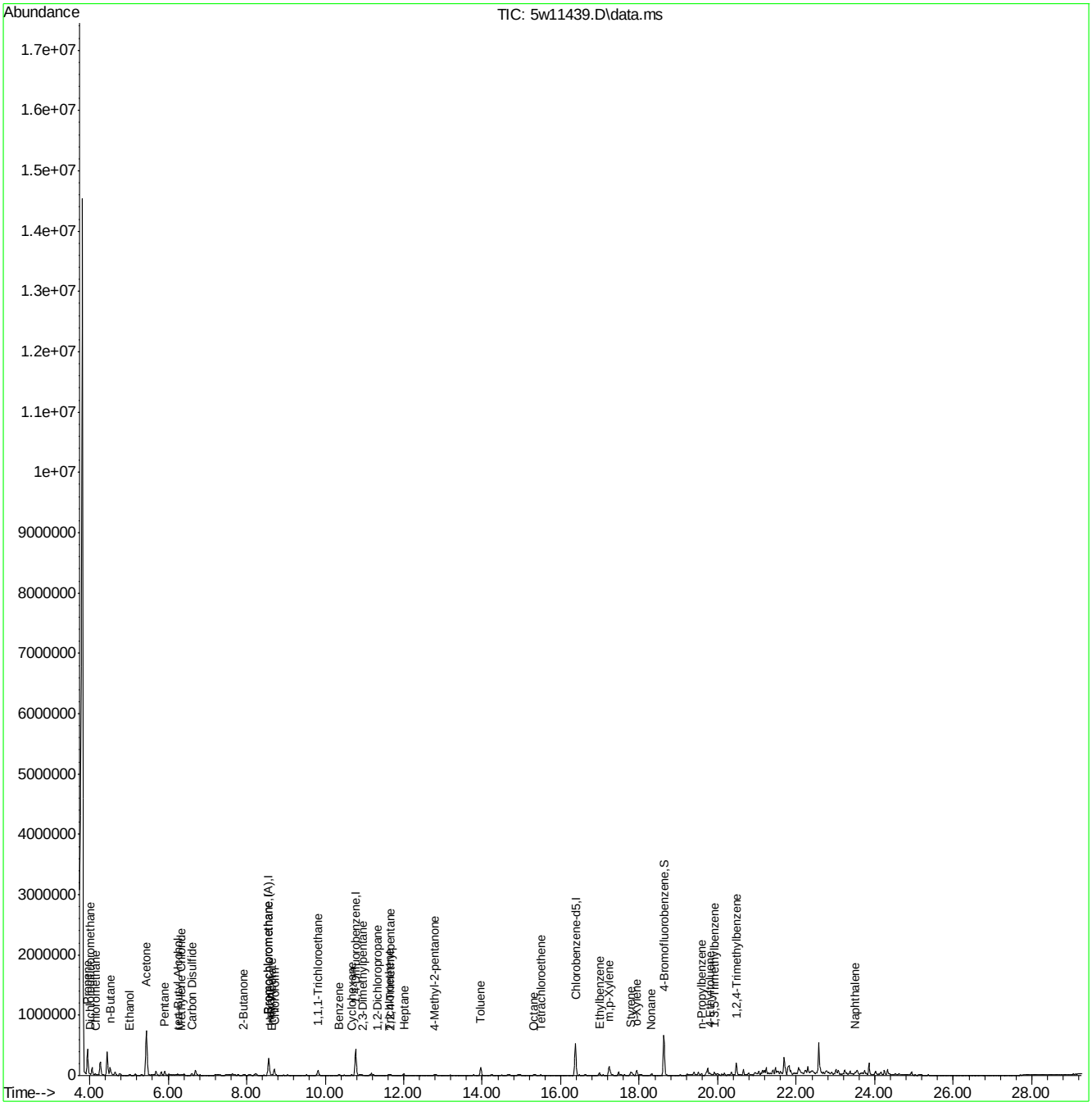
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.558	130	122069	10.00	ppb(v	-0.02
53) 1,4-Difluorobenzene	10.778	114	446514	10.00	ppb(v	-0.02
75) Chlorobenzene-d5	16.376	82	232335	10.00	ppb(v	-0.03
106) Bromochloromethane (A)	8.558	130	122069	10.00	ppb(v	-0.02
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.627	95	308058	10.17	ppb(v	-0.04
Spiked Amount 10.000	Range 65 - 128		Recovery = 101.70%			
Target Compounds						Qvalue
5) Propene	3.945	41	228818	26.06	ppb(v	98
6) Dichlorodifluoromethane	4.006	85	12985	0.41	ppb(v	99
8) Chloromethane	4.159	50	1279	0.13	ppb(v	93
12) n-Butane	4.526	58	14125	8.09	ppb(v#	87
21) Acetone	5.450	58	361199	63.15	ppb(v	97
22) Pentane	5.915	57	8790	3.00	ppb(v	98
28) Methylene Chloride	6.331	84	1503	0.13	ppb(v#	85
29) Carbon Disulfide	6.606	76	45604	1.26	ppb(v	98
30) Ethanol	5.009	45	6209	1.08	ppb(v	96
34) tert-Butyl Alcohol	6.257	59	12146	0.43	ppb(v#	78
38) 2-Butanone	7.921	72	6083	0.96	ppb(v	90
39) Hexane	8.588	57	19448	0.95	ppb(v#	38
42) Ethyl Acetate	8.655	61	1553	0.35	ppb(v#	30
44) Chloroform	8.704	83	92175	3.36	ppb(v	99
47) 1,1,1-Trichloroethane	9.818	97	70996	2.77	ppb(v	100
49) Benzene	10.356	78	19881	0.49	ppb(v	97
51) Cyclohexane	10.674	56	4749	0.25	ppb(v	96
52) 2,3-Dimethylpentane	10.956	71	1274m	0.16	ppb(v	
54) 2,2,4-Trimethylpentane	11.659	57	10590	0.18	ppb(v#	64
55) Heptane	12.002	71	5971	0.50	ppb(v	97
56) Trichloroethene	11.629	95	1441	0.08	ppb(v	83
57) 1,2-Dichloropropane	11.329	63	1811	0.12	ppb(v#	90
64) 4-Methyl-2-pentanone	12.779	58	2019	0.17	ppb(v	69
66) Toluene	13.966	91	129657	2.77	ppb(v	99
71) Tetrachloroethene	15.495	166	4149	0.18	ppb(v	91
73) Octane	15.318	43	9944	0.34	ppb(v	93
77) Ethylbenzene	16.988	91	43137	0.76	ppb(v	96
78) m,p-Xylene	17.232	91	169699	3.75	ppb(v	98
79) Styrene	17.783	104	28838	0.92	ppb(v	98
80) Nonane	18.315	43	14457	0.50	ppb(v	93
81) o-Xylene	17.936	91	72891	1.65	ppb(v	99
88) n-Propylbenzene	19.588	120	5012	0.32	ppb(v	94
90) 4-Ethyltoluene	19.802	105	33220	0.57	ppb(v	97
91) 1,3,5-Trimethylbenzene	19.912	105	30324	0.61	ppb(v	97
94) 1,2,4-Trimethylbenzene	20.475	105	122893	2.47	ppb(v#	63
104) Naphthalene	23.491	128	10292	0.25	ppb(v	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

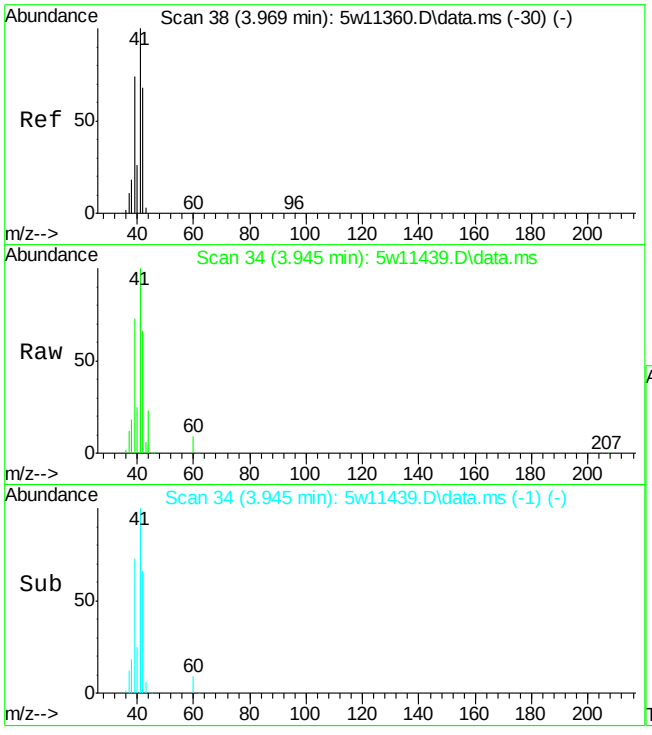
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11439.D
Acq On : 8 May 2015 5:10 pm
Operator : mikel1
Sample : JB94203-2
Misc : MS84855,v5w449,100,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 13 08:04:46 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration



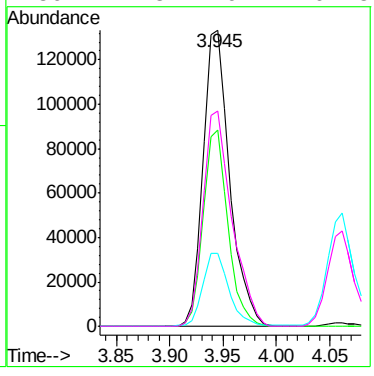
m5w419.M Wed May 13 08:04:51 2015 GCMS5W Page: 2

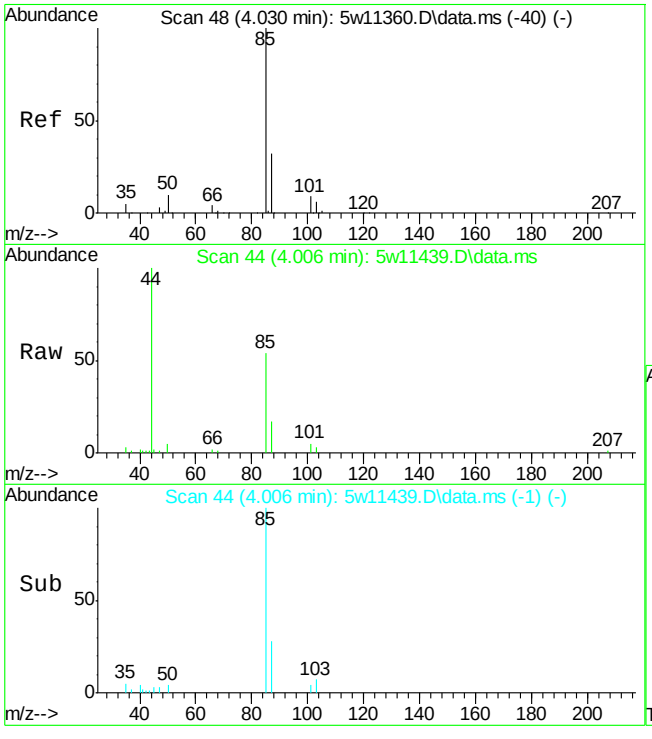


#5
Propene
Concen: 26.06 ppb(v)
RT: 3.945 min Scan# 34
Delta R.T. -0.024 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion: 41 Resp: 228818

Ion	Ratio	Lower	Upper
41	100		
42	66.2	45.0	83.6
40	24.6	17.9	33.3
39	72.8	49.7	92.3

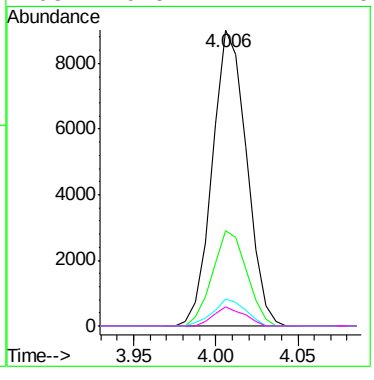


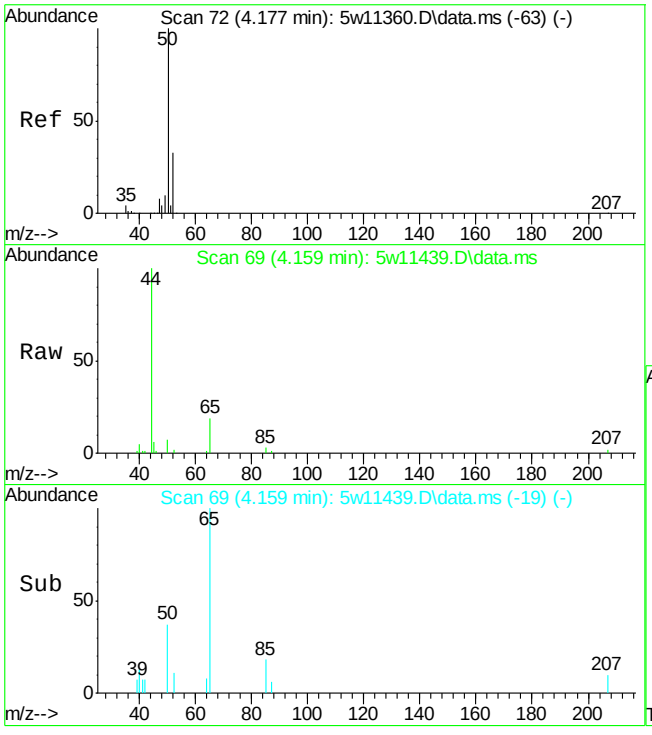


#6
Dichlorodifluoromethane
Concen: 0.41 ppb(v)
RT: 4.006 min Scan# 44
Delta R.T. -0.031 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion: 85 Resp: 12985

Ion	Ratio	Lower	Upper
85	100		
87	32.2	22.7	42.1
101	9.0	6.0	11.2
103	6.5	4.1	7.5

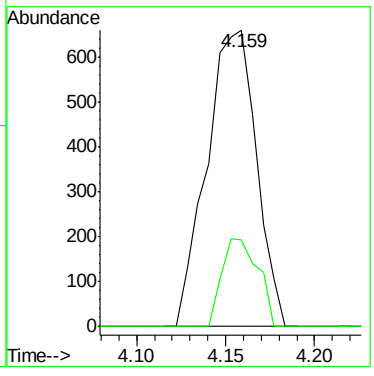


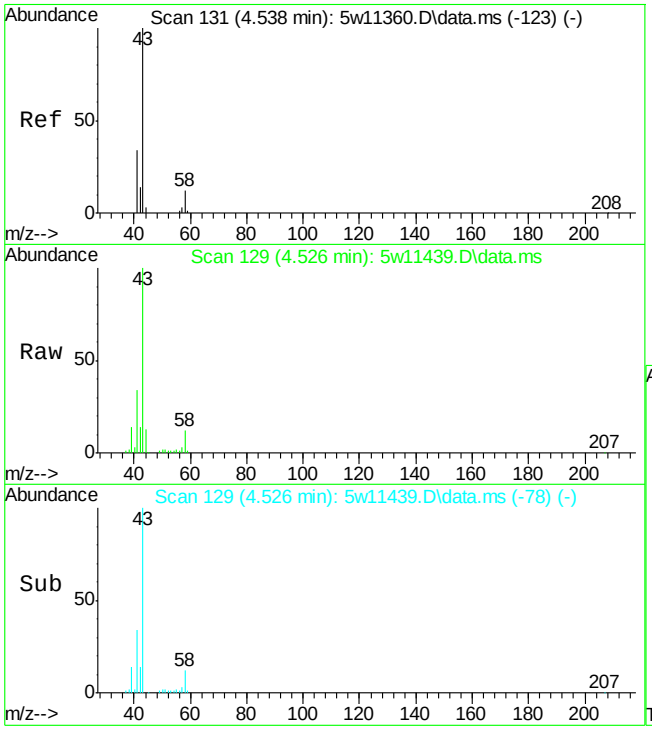


#8
Chloromethane
Concen: 0.13 ppb(v)
RT: 4.159 min Scan# 69
Delta R.T. -0.024 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion: 50 Resp: 1279

Ion	Ratio	Lower	Upper
50	100		
52	29.3	23.2	43.0

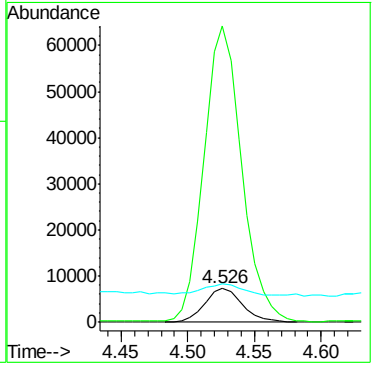


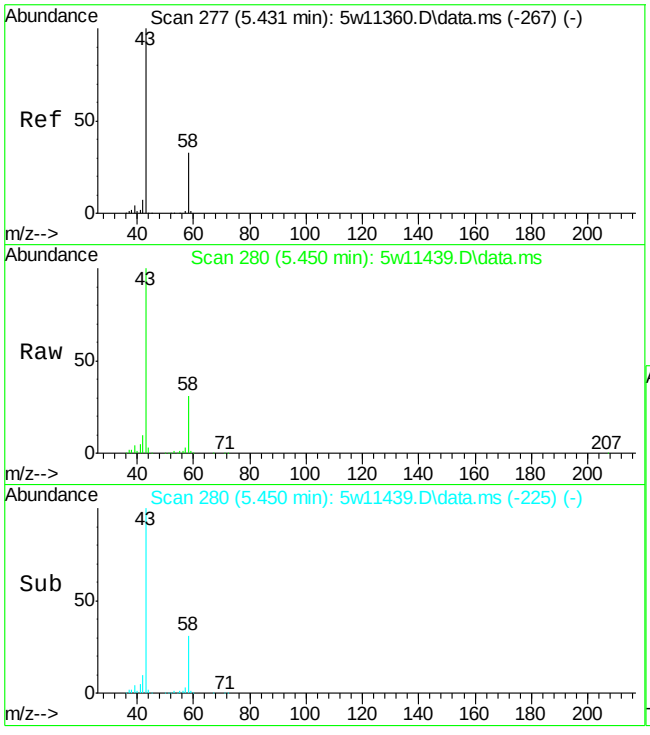


#12
n-Butane
Concen: 8.09 ppb(v)
RT: 4.526 min Scan# 129
Delta R.T. -0.018 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion: 58 Resp: 14125

Ion	Ratio	Lower	Upper
58	100		
43	865.1	583.8	1084.2
44	112.9	25.6	47.6#

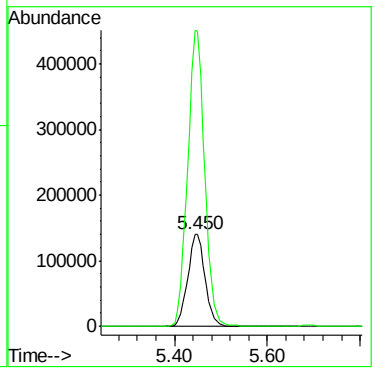


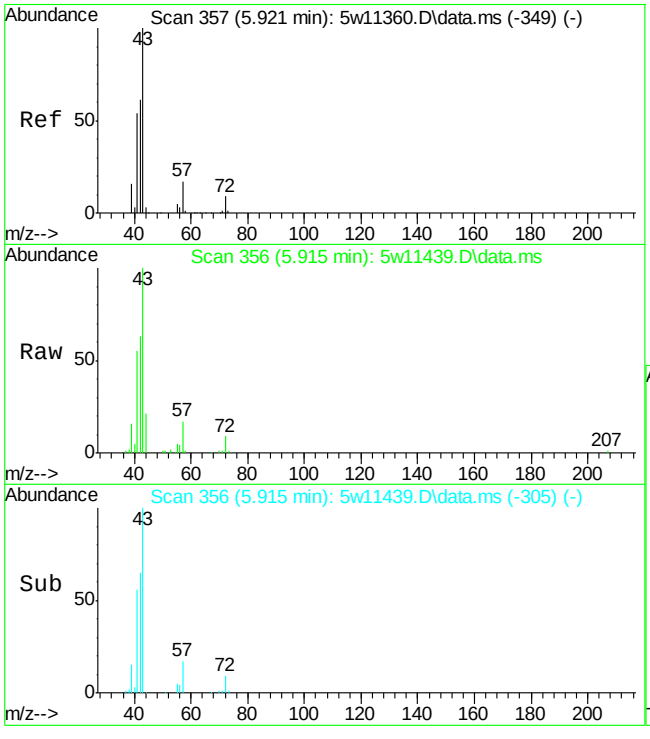


#21
Acetone
Concen: 63.15 ppb(v)
RT: 5.450 min Scan# 280
Delta R.T. 0.006 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion: 58 Resp: 361199

Ion	Ratio	Lower	Upper
58	100		
43	318.2	217.8	404.6

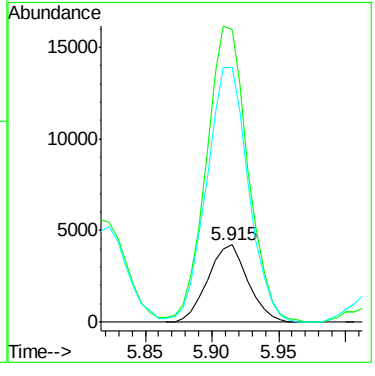


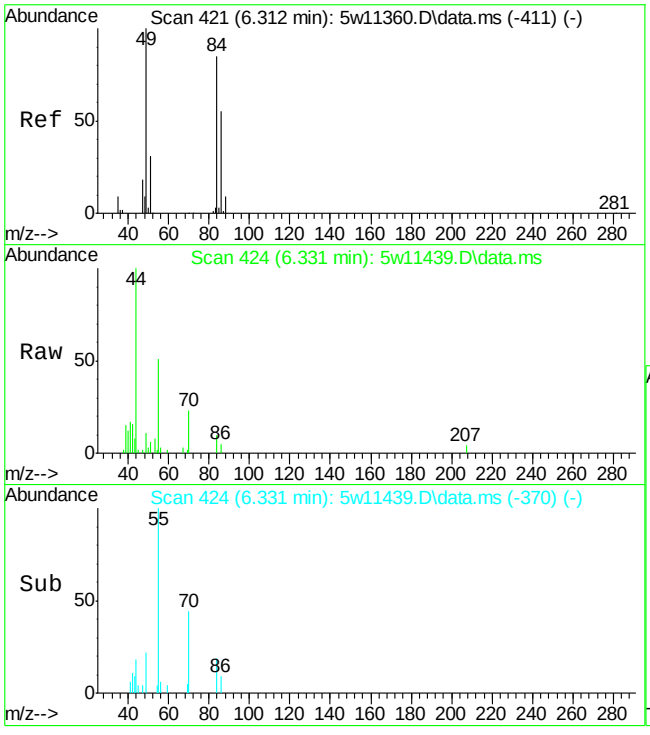


#22
Pentane
Concen: 3.00 ppb(v)
RT: 5.915 min Scan# 356
Delta R.T. -0.018 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion: 57 Resp: 8790

Ion	Ratio	Lower	Upper
57	100		
42	378.3	262.5	487.5
41	329.1	225.7	419.1

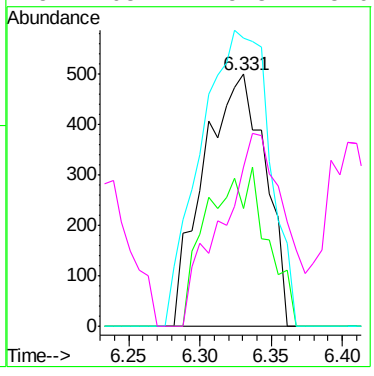


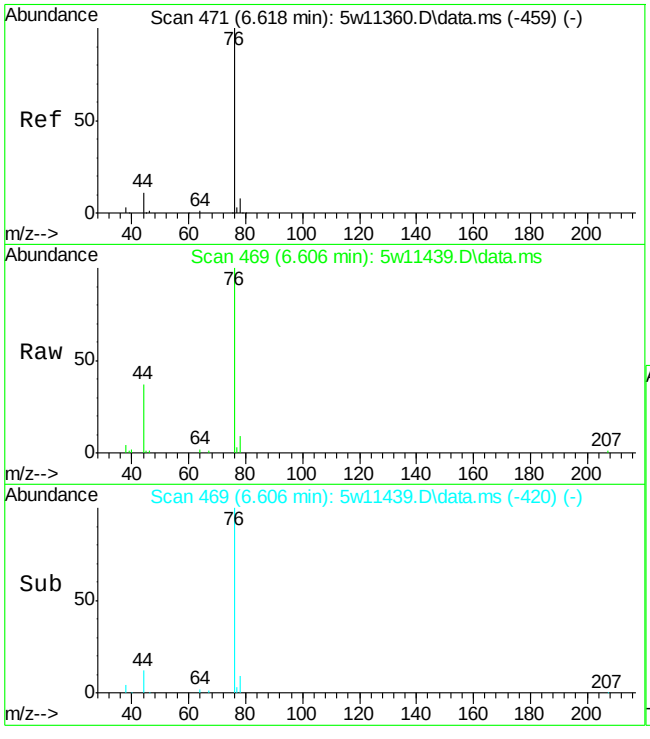


#28
Methylene Chloride
Concen: 0.13 ppb(v)
RT: 6.331 min Scan# 424
Delta R.T. 0.000 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion: 84 Resp: 1503

Ion	Ratio	Lower	Upper
84	100		
86	46.8	44.7	83.1
49	114.2	80.9	150.3
51	63.2	25.8	48.0#

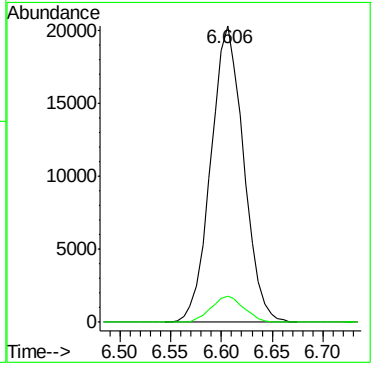


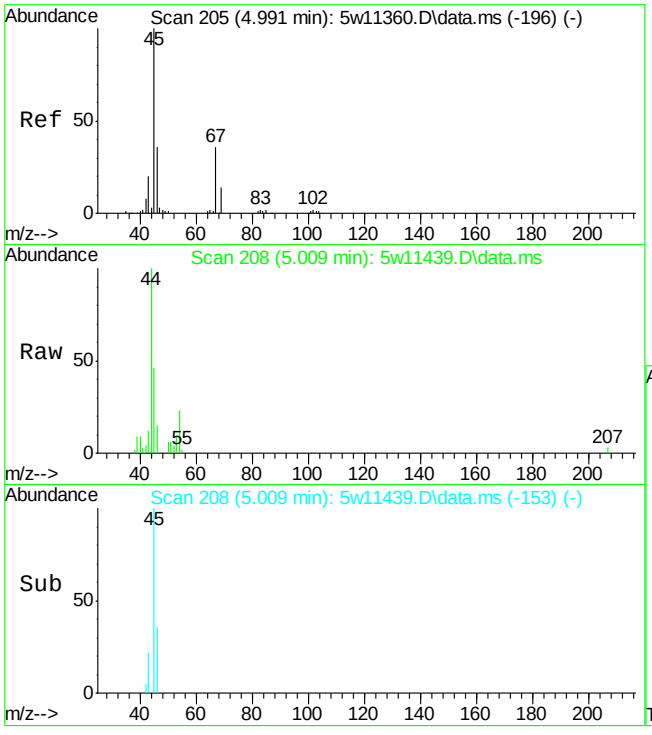


#29
Carbon Disulfide
Concen: 1.26 ppb(v)
RT: 6.606 min Scan# 469
Delta R.T. -0.031 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion: 76 Resp: 45604

Ion	Ratio	Lower	Upper
76	100		
78	8.9	6.6	12.4

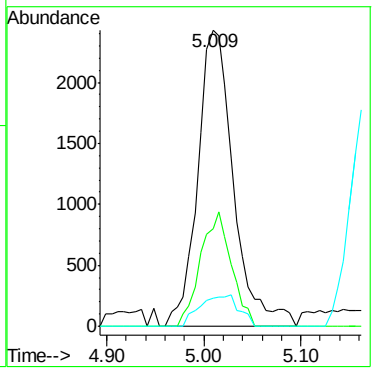


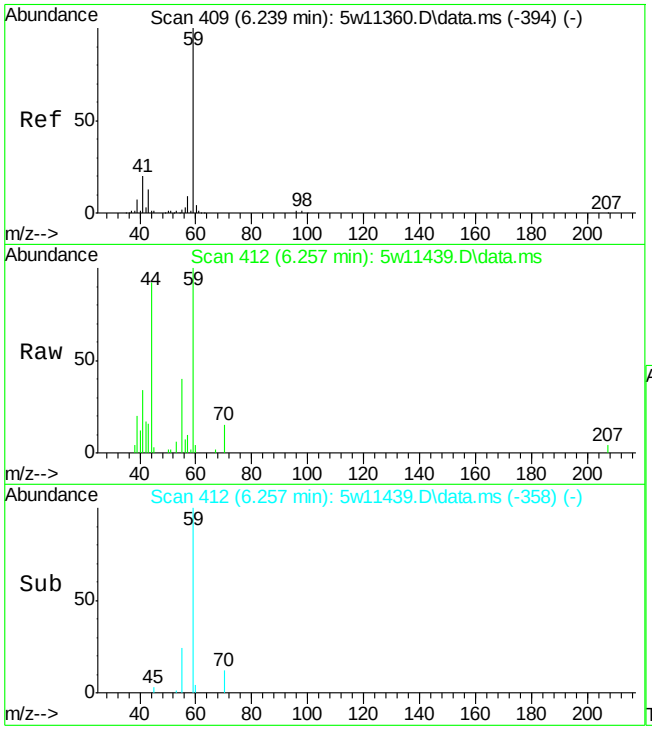


#30
Ethanol
Concen: 1.08 ppb(v)
RT: 5.009 min Scan# 208
Delta R.T. 0.006 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion: 45 Resp: 6209

Ion	Ratio	Lower	Upper
45	100		
46	33.2	24.6	45.6
42	9.6	5.5	10.1

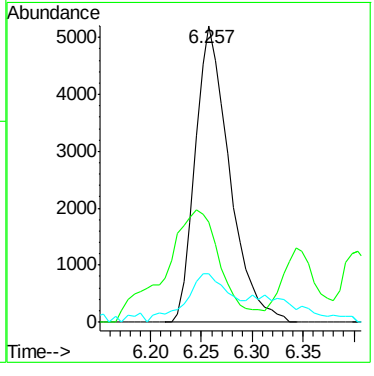


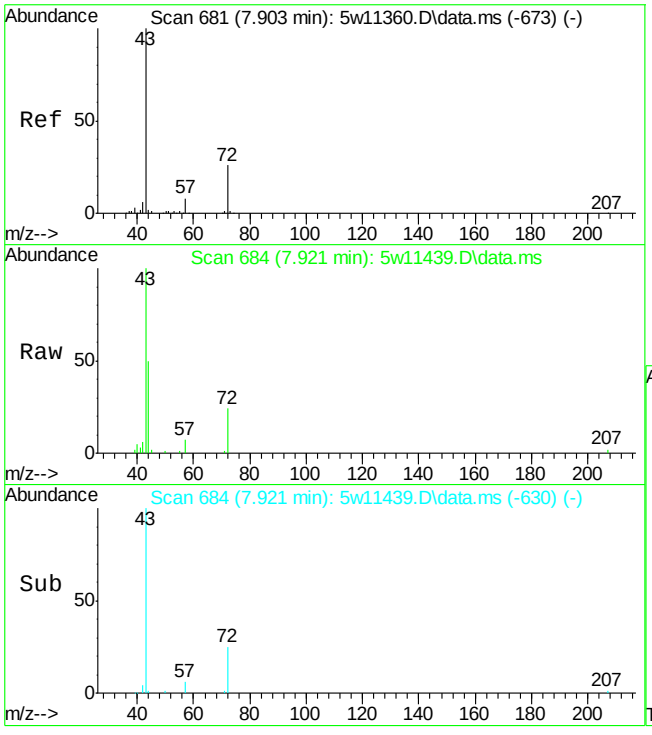


#34
tert-Butyl Alcohol
Concen: 0.43 ppb(v)
RT: 6.257 min Scan# 412
Delta R.T. 0.000 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion: 59 Resp: 12146

Ion	Ratio	Lower	Upper
59	100		
41	33.8	13.4	24.8#
43	16.4	9.3	17.3

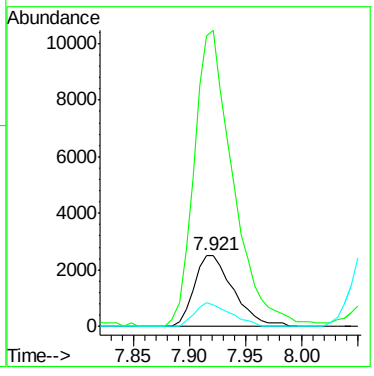


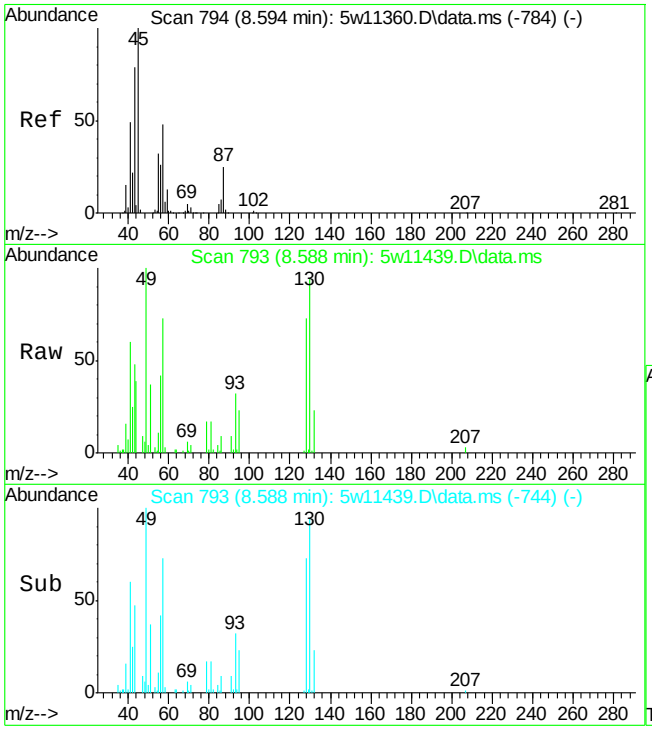


#38
2-Butanone
Concen: 0.96 ppb(v)
RT: 7.921 min Scan# 684
Delta R.T. 0.000 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion: 72 Resp: 6083

Ion	Ratio	Lower	Upper
72	100		
43	415.8	274.1	508.9
57	30.6	22.1	41.1

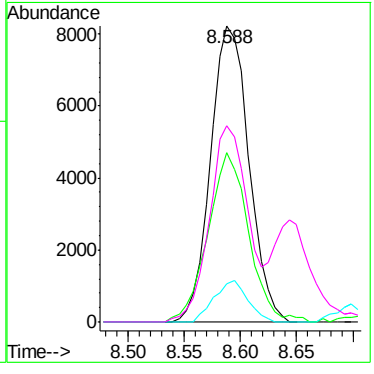


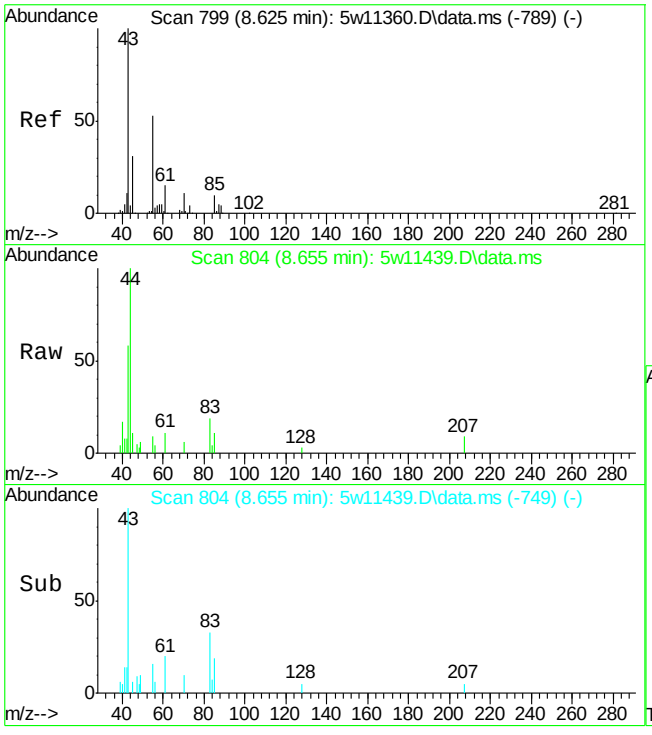


#39
Hexane
Concen: 0.95 ppb(v)
RT: 8.588 min Scan# 793
Delta R.T. -0.031 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion: 57 Resp: 19448

Ion	Ratio	Lower	Upper
57	100		
56	57.1	37.4	69.4
86	12.8	10.4	19.2
43	66.2	130.8	242.8#

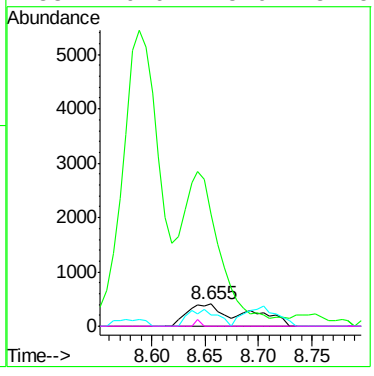


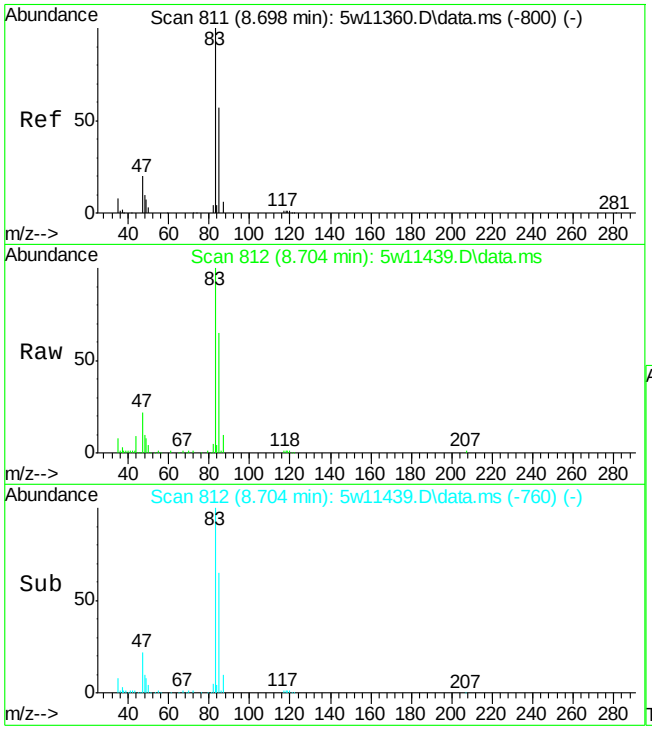


#42
Ethyl Acetate
Concen: 0.35 ppb(v)
RT: 8.655 min Scan# 804
Delta R.T. 0.006 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion: 61 Resp: 1553

Ion	Ratio	Lower	Upper
61	100		
43	511.6	556.0	1032.6#
70	51.6	50.3	93.3
88	0.0	18.6	34.5#

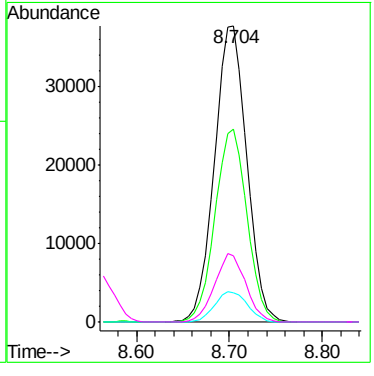


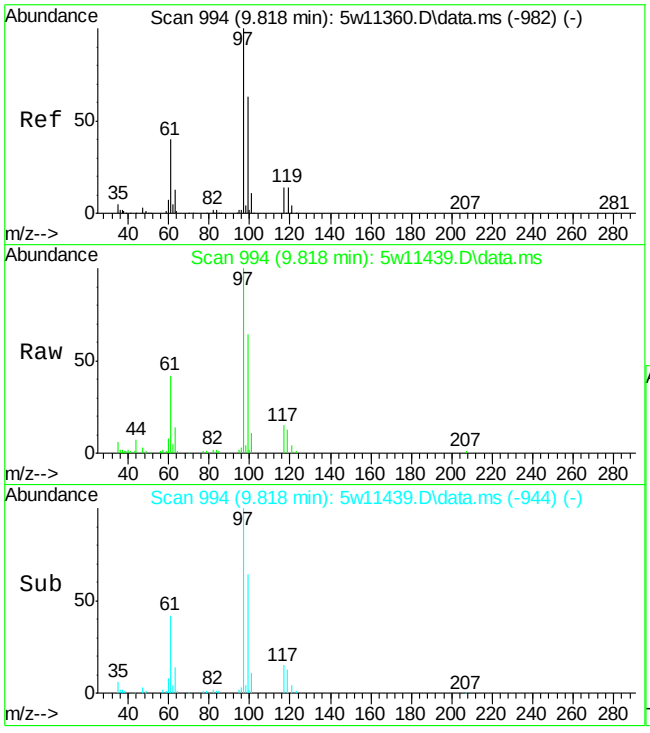


#44
Chloroform
Concen: 3.36 ppb(v)
RT: 8.704 min Scan# 812
Delta R.T. -0.012 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion: 83 Resp: 92175

Ion	Ratio	Lower	Upper
83	100		
85	65.2	45.0	83.6
87	9.9	7.3	13.5
47	22.3	15.0	28.0

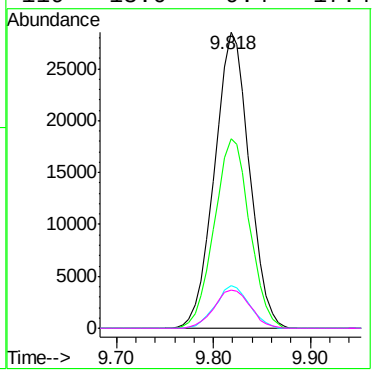


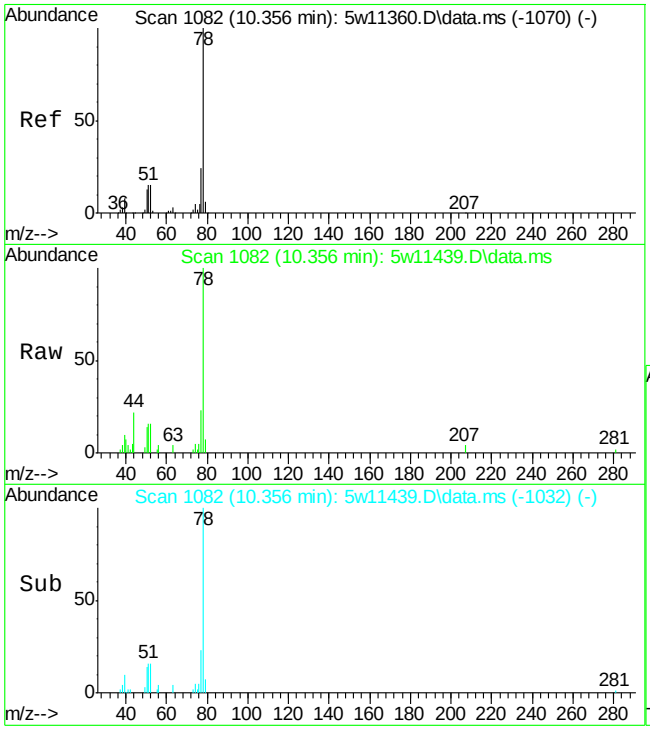


#47
1,1,1-Trichloroethane
Concen: 2.77 ppb(v)
RT: 9.818 min Scan# 994
Delta R.T. -0.024 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion: 97 Resp: 70996

Ion	Ratio	Lower	Upper
97	100		
99	63.9	44.9	83.3
117	14.5	10.1	18.7
119	13.0	9.4	17.4

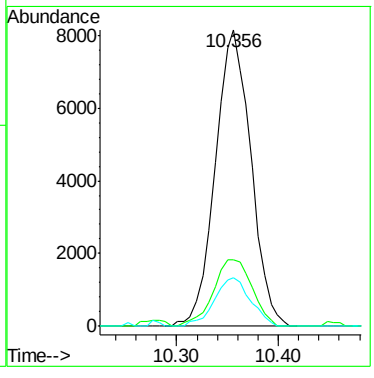




#49
Benzene
Concen: 0.49 ppb(v)
RT: 10.356 min Scan# 1082
Delta R.T. -0.024 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

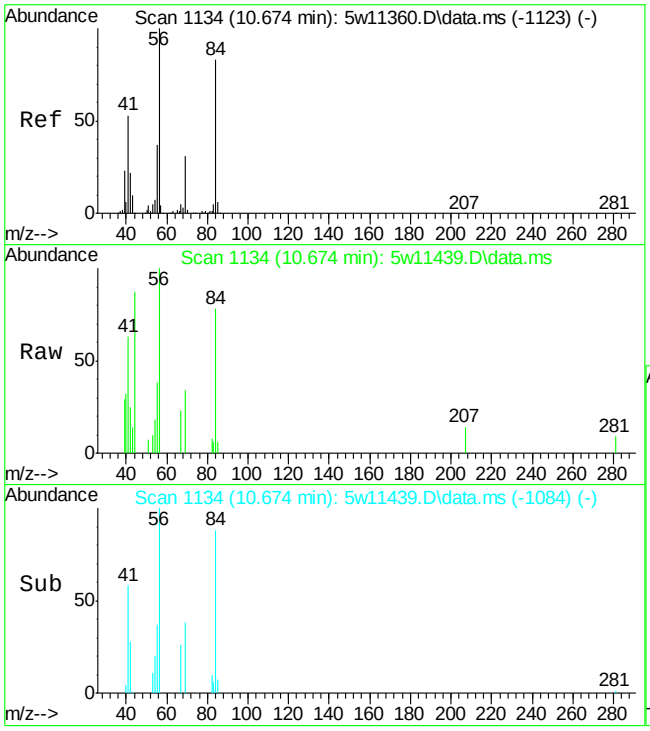
Tgt Ion: 78 Resp: 19881

Ion	Ratio	Lower	Upper
78	100		
77	22.5	16.6	30.8
51	16.3	10.6	19.6



7.1.2

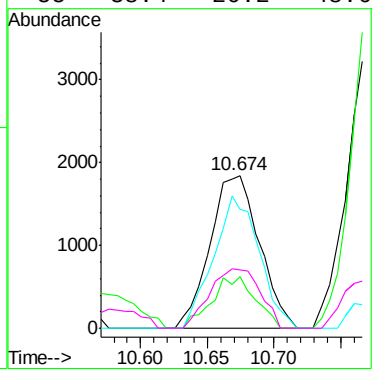
7

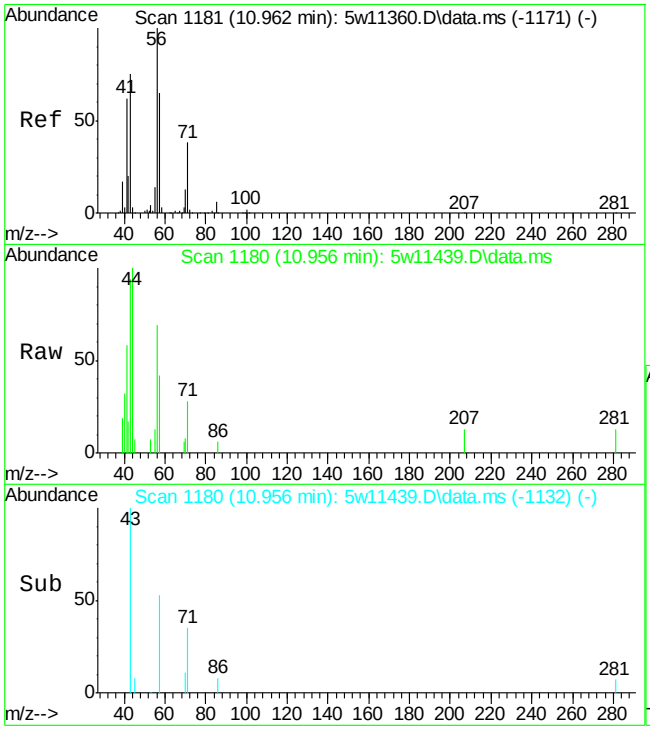


#51
Cyclohexane
Concen: 0.25 ppb(v)
RT: 10.674 min Scan# 1134
Delta R.T. -0.024 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion: 56 Resp: 4749

Ion	Ratio	Lower	Upper
56	100		
69	33.8	22.1	41.1
84	77.7	57.8	107.4
55	38.4	26.2	48.6

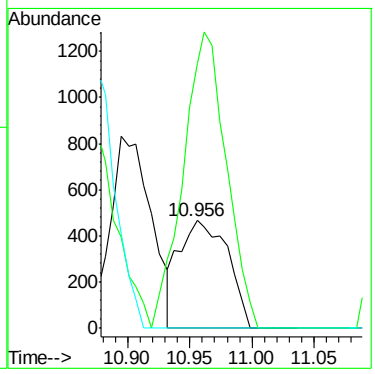


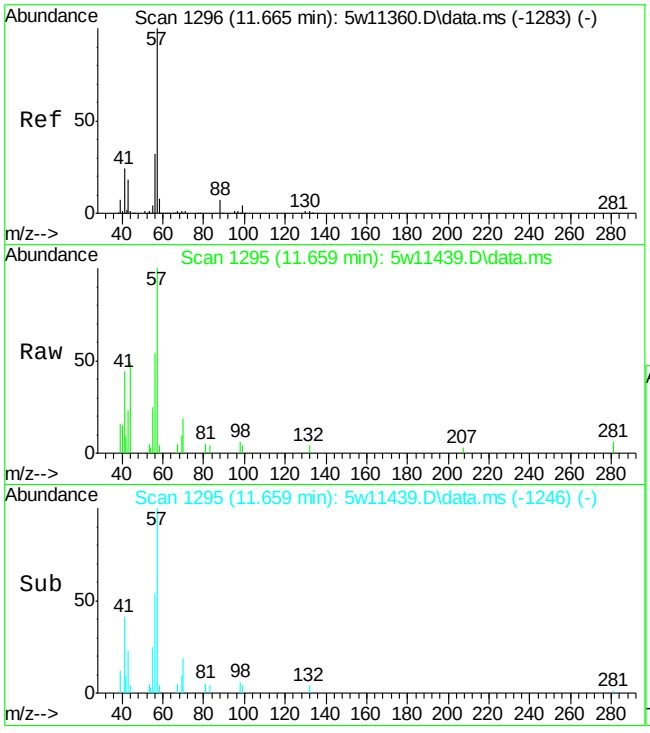


#52
2,3-Dimethylpentane
Concen: 0.16 ppb(v) m
RT: 10.956 min Scan# 1180
Delta R.T. -0.037 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion: 71 Resp: 1274

Ion	Ratio	Lower	Upper
71	100		
56	246.7	183.3	340.5
85	0.0	10.8	20.0#

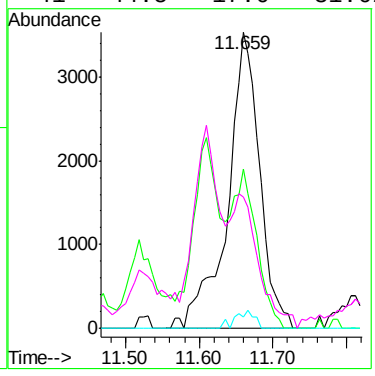


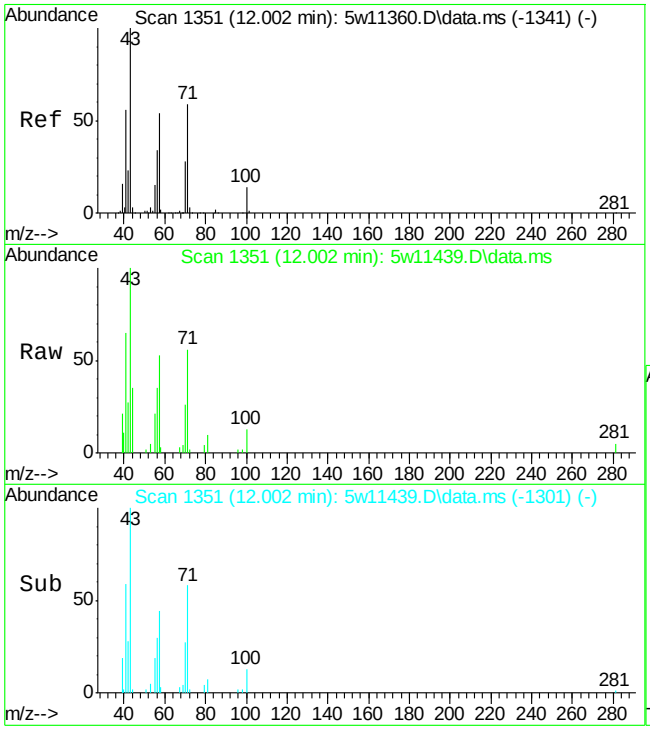


#54
2,2,4-Trimethylpentane
Concen: 0.18 ppb(v)
RT: 11.659 min Scan# 1295
Delta R.T. -0.031 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion: 57 Resp: 10590

Ion	Ratio	Lower	Upper
57	100		
56	54.0	23.2	43.0#
99	3.9	3.4	6.4
41	44.5	17.0	31.6#

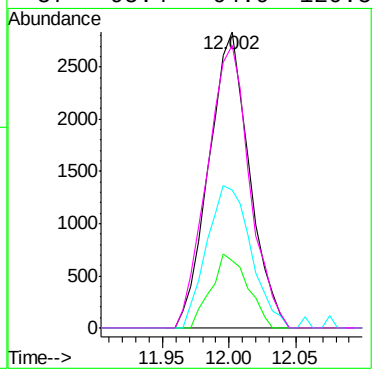




#55
Heptane
Concen: 0.50 ppb(v)
RT: 12.002 min Scan# 1351
Delta R.T. -0.024 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

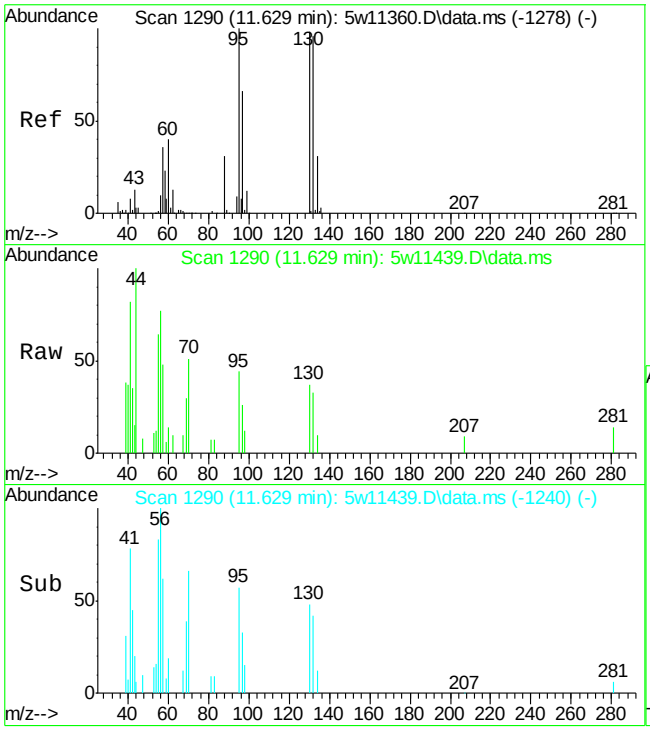
Tgt Ion: 71 Resp: 5971

Ion	Ratio	Lower	Upper
71	100		
100	22.6	18.3	33.9
70	46.5	33.5	62.1
57	95.4	64.9	120.5



7.1.2

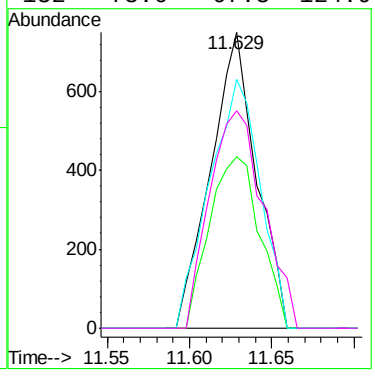
7

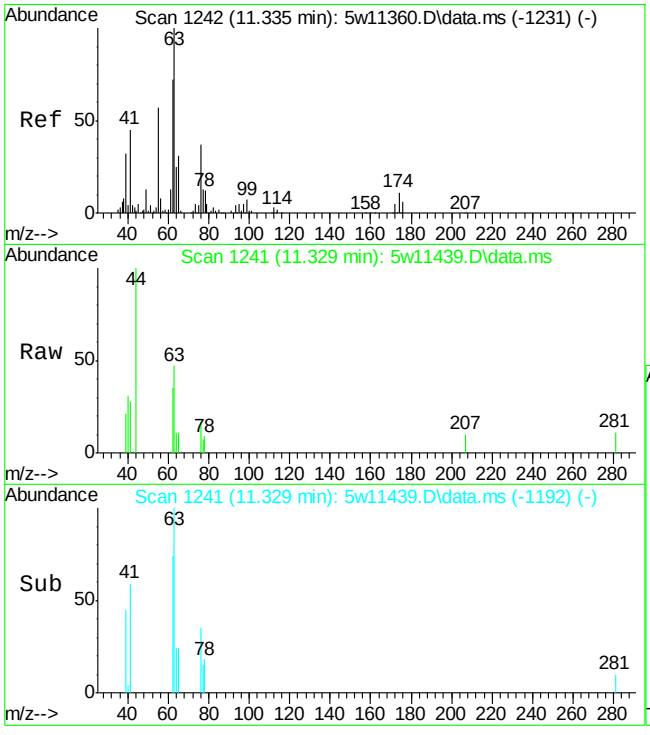


#56
Trichloroethene
Concen: 0.08 ppb(v)
RT: 11.629 min Scan# 1290
Delta R.T. -0.024 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion: 95 Resp: 1441

Ion	Ratio	Lower	Upper
95	100		
97	58.1	46.0	85.4
130	84.3	69.8	129.6
132	73.6	67.3	124.9

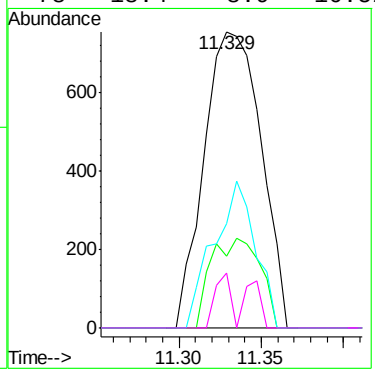


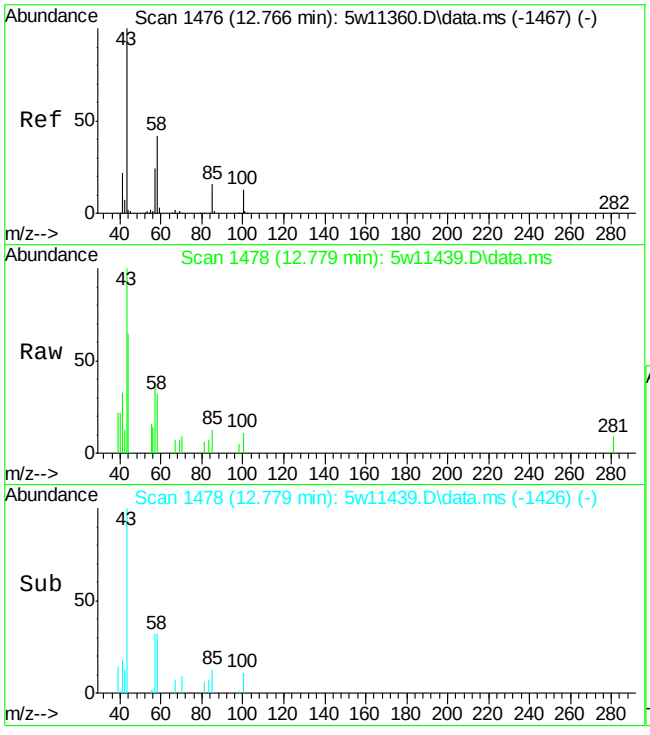


#57
1,2-Dichloropropane
Concen: 0.12 ppb(v)
RT: 11.329 min Scan# 1241
Delta R.T. -0.031 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion: 63 Resp: 1811

Ion	Ratio	Lower	Upper
63	100		
65	24.1	22.1	41.1
76	35.4	27.3	50.7
78	18.4	8.9	16.5#

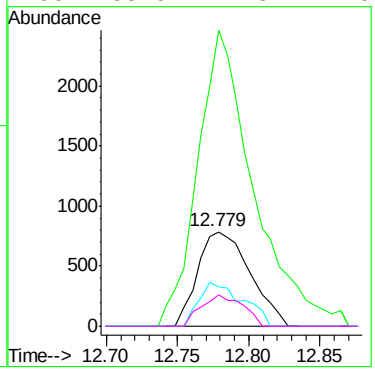


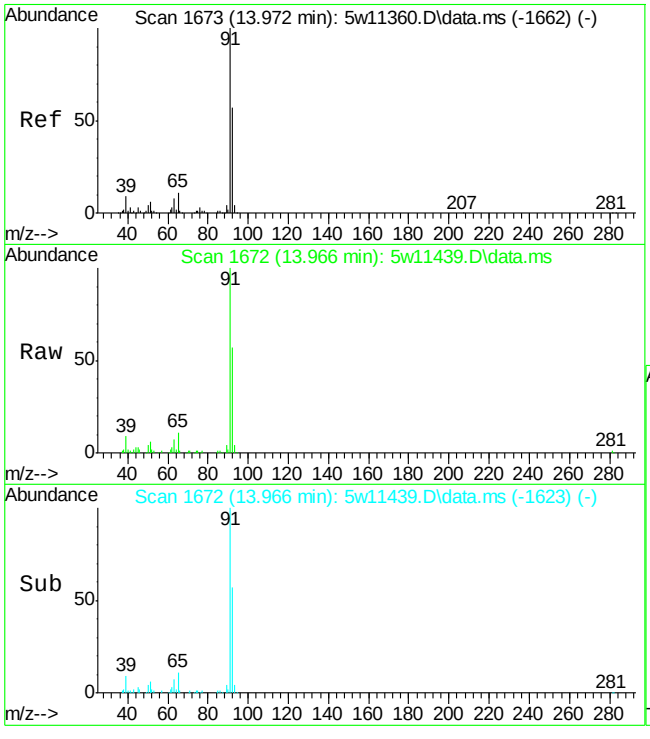


#64
4-Methyl-2-pentanone
Concen: 0.17 ppb(v)
RT: 12.779 min Scan# 1478
Delta R.T. -0.012 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion: 58 Resp: 2019

Ion	Ratio	Lower	Upper
58	100		
43	312.2	170.7	316.9
85	40.9	29.0	53.8
100	33.0	22.3	41.5

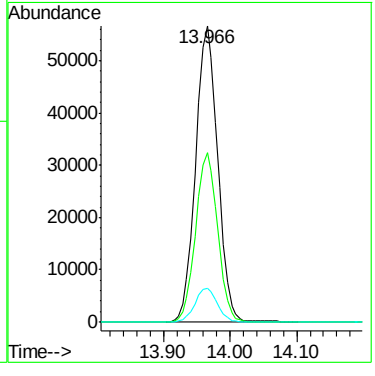


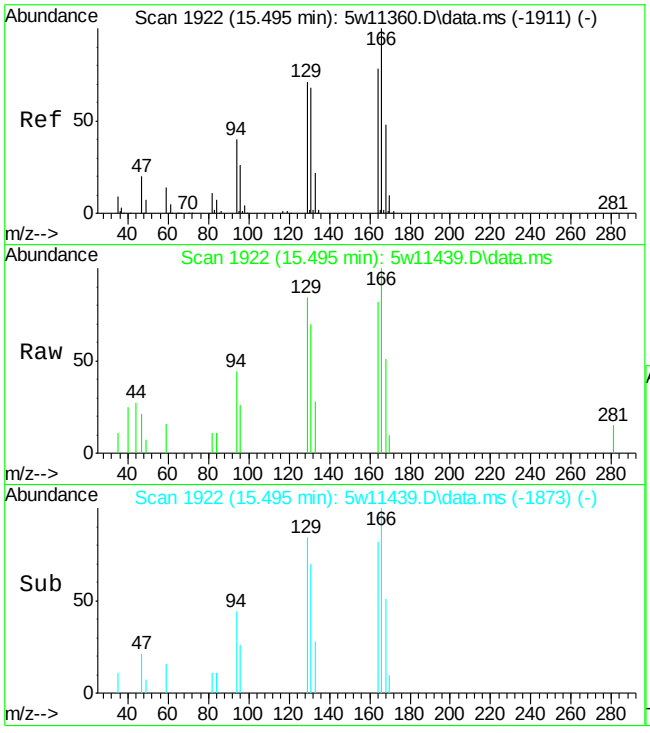


#66
Toluene
Concen: 2.77 ppb(v)
RT: 13.966 min Scan# 1672
Delta R.T. -0.031 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion: 91 Resp: 129657

Ion	Ratio	Lower	Upper
91	100		
92	57.3	40.3	74.9
65	11.4	7.6	14.0

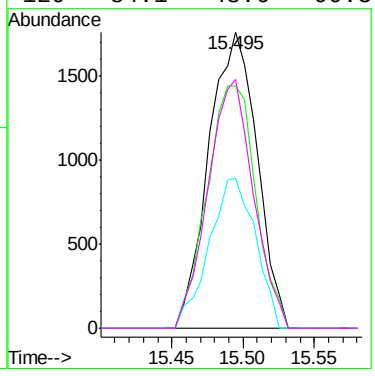


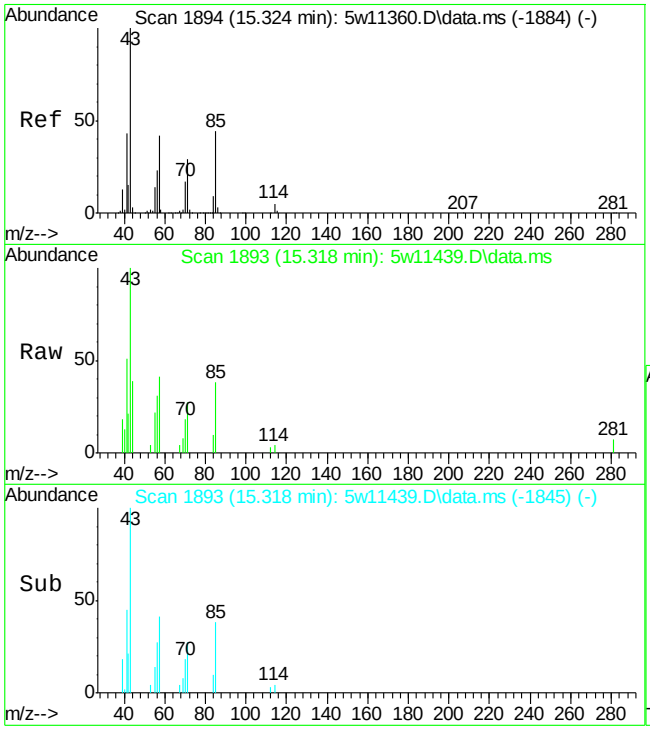


#71
Tetrachloroethene
Concen: 0.18 ppb(v)
RT: 15.495 min Scan# 1922
Delta R.T. -0.031 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion:166 Resp: 4149

Ion	Ratio	Lower	Upper
166	100		
164	82.0	54.3	100.9
168	50.8	33.9	62.9
129	84.1	48.6	90.3

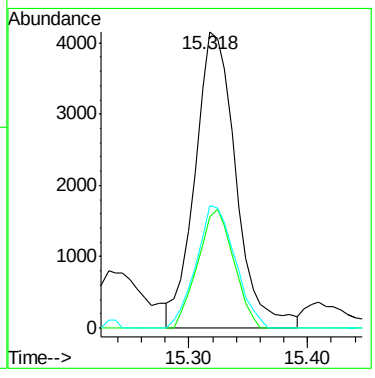




#73
Octane
Concen: 0.34 ppb(v)
RT: 15.318 min Scan# 1893
Delta R.T. -0.037 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

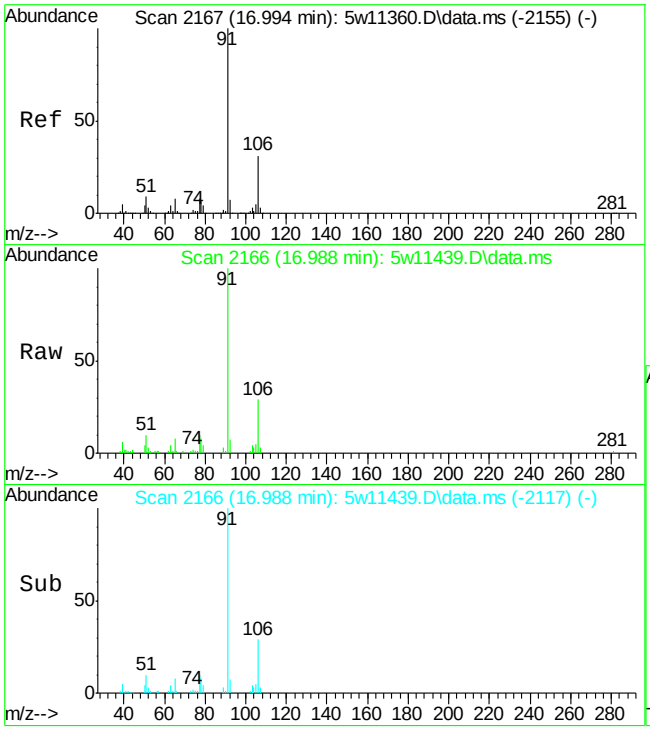
Tgt Ion: 43 Resp: 9944

Ion	Ratio	Lower	Upper
43	100		
85	37.6	31.6	58.8
57	41.1	29.5	54.7



7.1.2

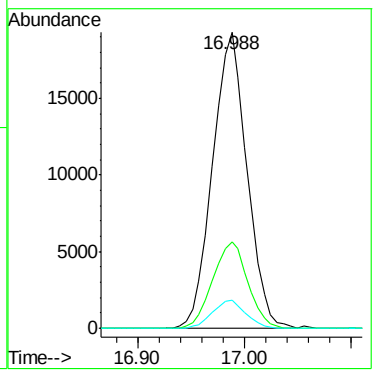
7

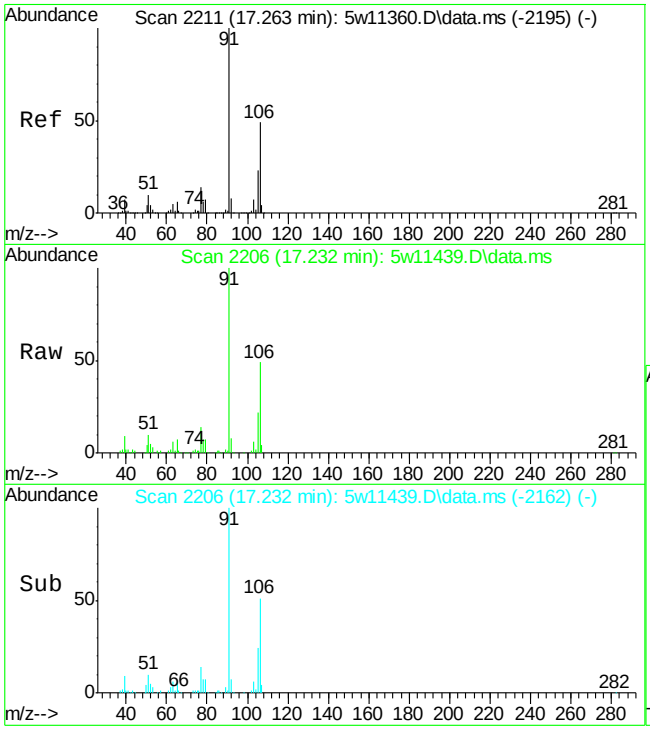


#77
Ethylbenzene
Concen: 0.76 ppb(v)
RT: 16.988 min Scan# 2166
Delta R.T. -0.031 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion: 91 Resp: 43137

Ion	Ratio	Lower	Upper
91	100		
106	29.2	21.9	40.7
77	9.6	6.0	11.2

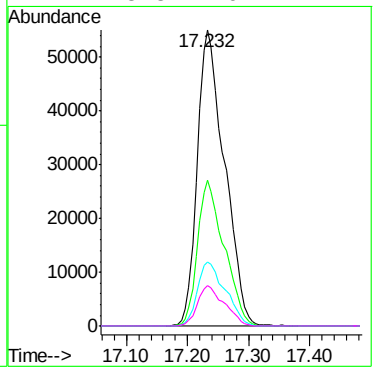




#78
m,p-Xylene
Concen: 3.75 ppb(v)
RT: 17.232 min Scan# 2206
Delta R.T. -0.061 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

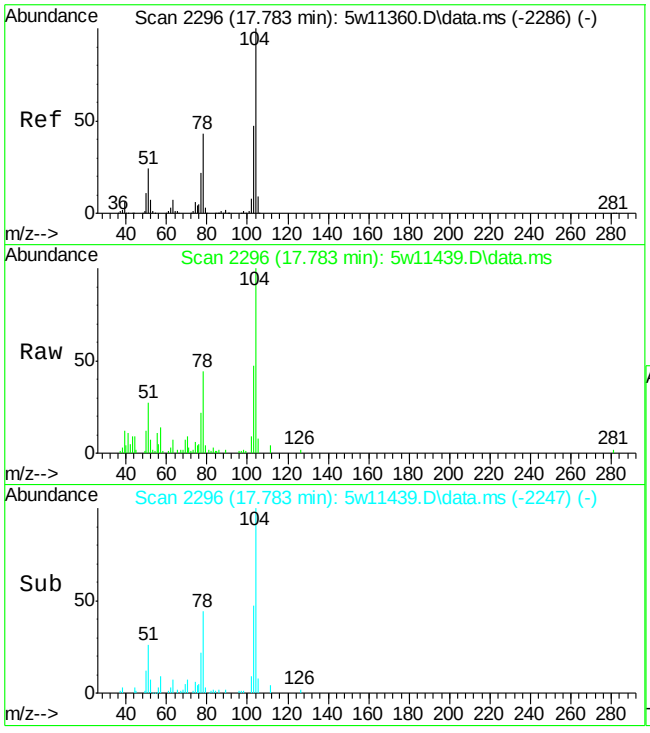
Tgt Ion: 91 Resp: 169699

Ion	Ratio	Lower	Upper
91	100		
106	49.1	35.1	65.1
105	21.6	16.0	29.8
77	13.8	9.4	17.4



7.1.2

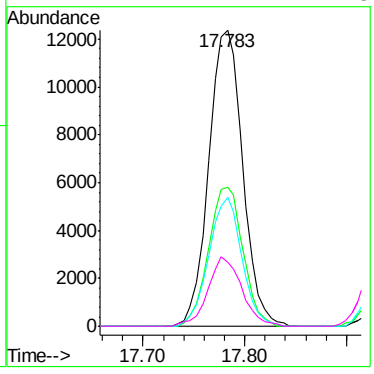
7

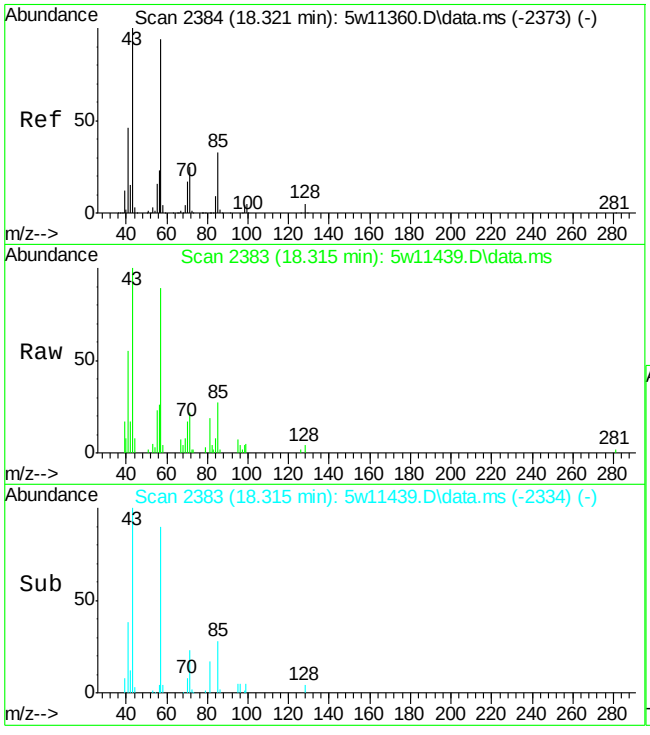


#79
Styrene
Concen: 0.92 ppb(v)
RT: 17.783 min Scan# 2296
Delta R.T. -0.031 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion:104 Resp: 28838

Ion	Ratio	Lower	Upper
104	100		
103	47.0	33.2	61.6
78	43.7	29.1	54.1
77	21.7	14.7	27.3

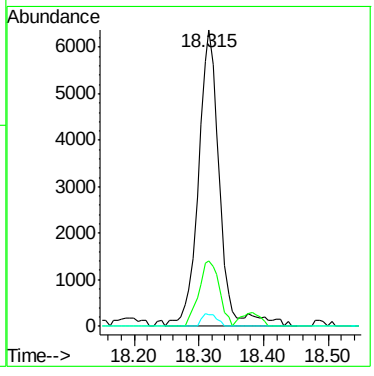


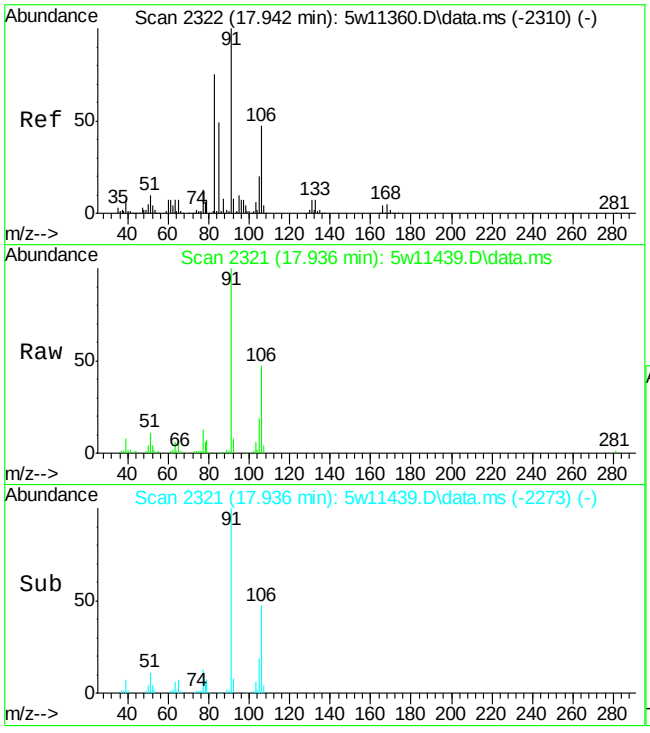


#80
Nonane
Concen: 0.50 ppb(v)
RT: 18.315 min Scan# 2383
Delta R.T. -0.030 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion: 43 Resp: 14457

Ion	Ratio	Lower	Upper
43	100		
71	22.2	18.4	34.2
128	3.8	3.6	6.8

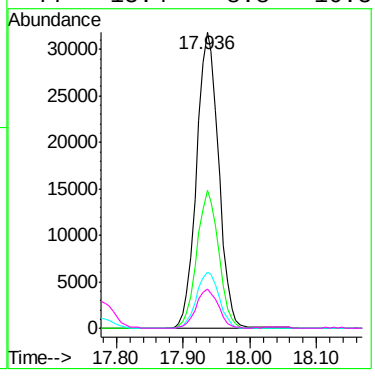


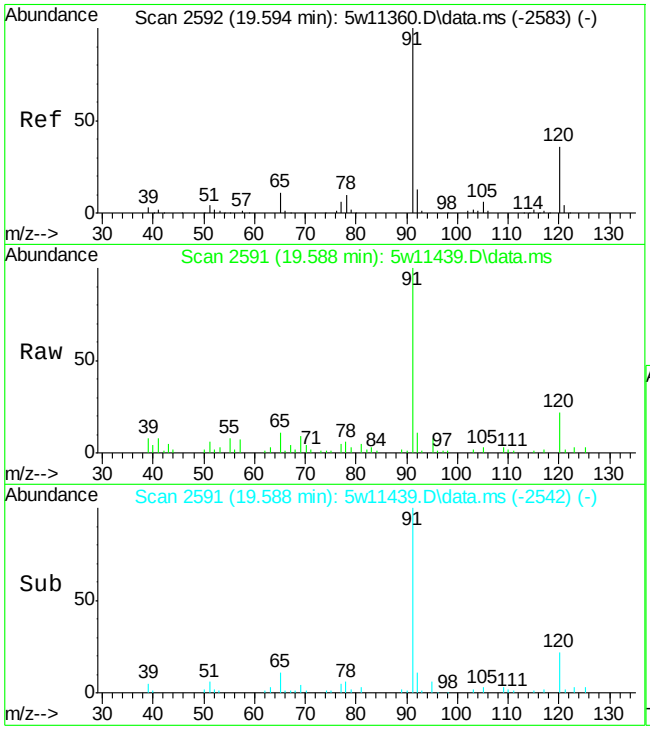


#81
o-Xylene
Concen: 1.65 ppb(v)
RT: 17.936 min Scan# 2321
Delta R.T. -0.037 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion: 91 Resp: 72891

Ion	Ratio	Lower	Upper
91	100		
106	46.6	33.5	62.1
105	19.1	13.4	24.8
77	13.4	8.8	16.3

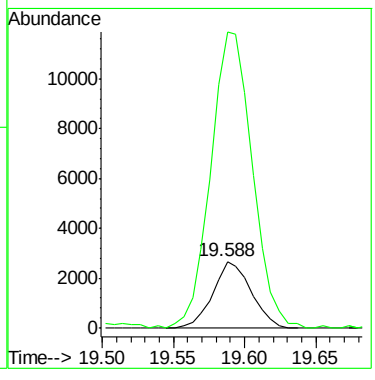


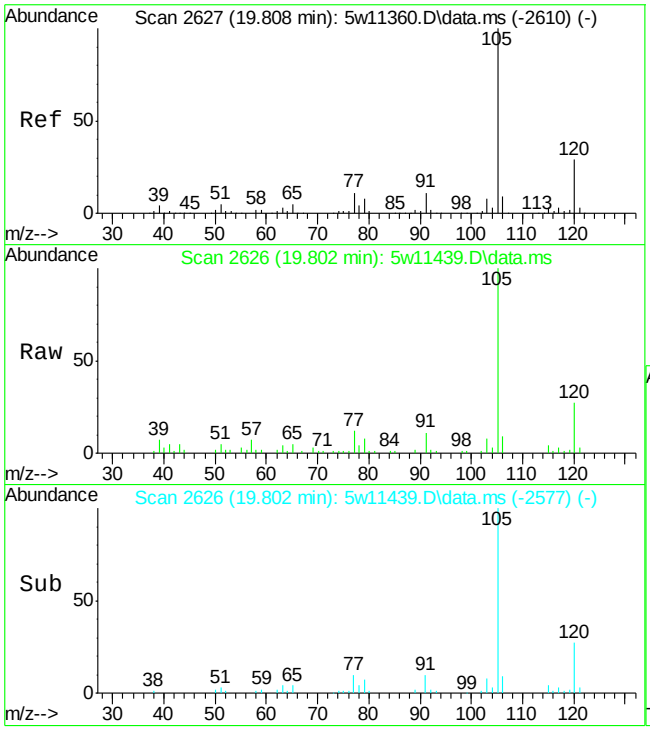


#88
n-Propylbenzene
Concen: 0.32 ppb(v)
RT: 19.588 min Scan# 2591
Delta R.T. -0.031 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion:120 Resp: 5012

Ion	Ratio	Lower	Upper
120	100		
91	446.2	323.0	599.8

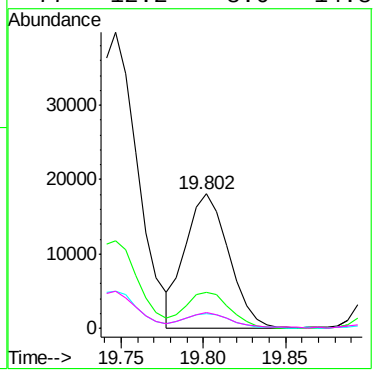


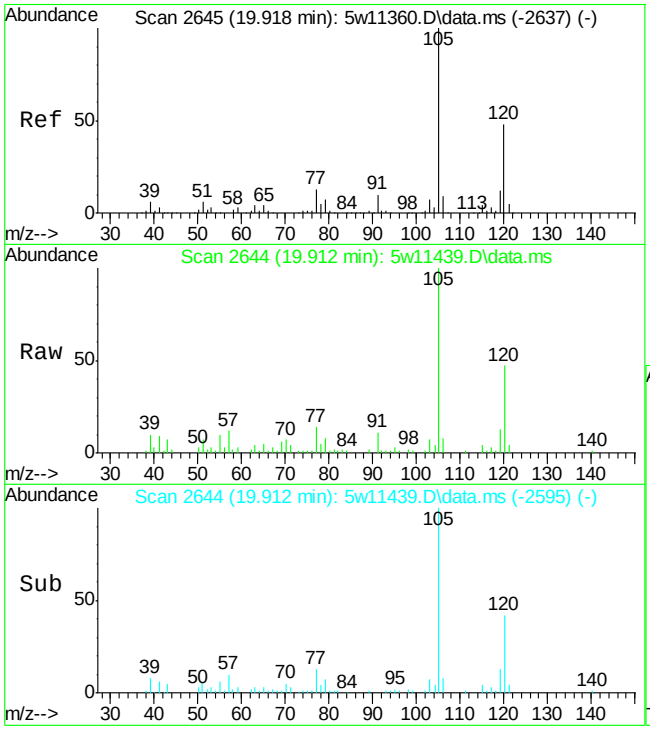


#90
4-Ethyltoluene
Concen: 0.57 ppb(v)
RT: 19.802 min Scan# 2626
Delta R.T. -0.031 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion:105 Resp: 33220

Ion	Ratio	Lower	Upper
105	100		
120	27.0	20.6	38.2
91	11.2	7.6	14.0
77	12.2	8.0	14.8

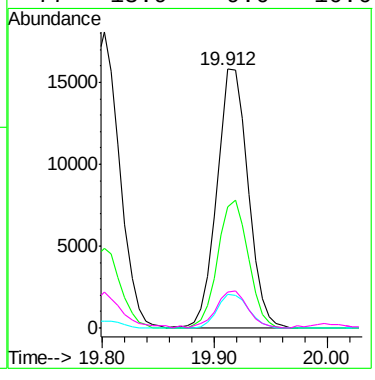


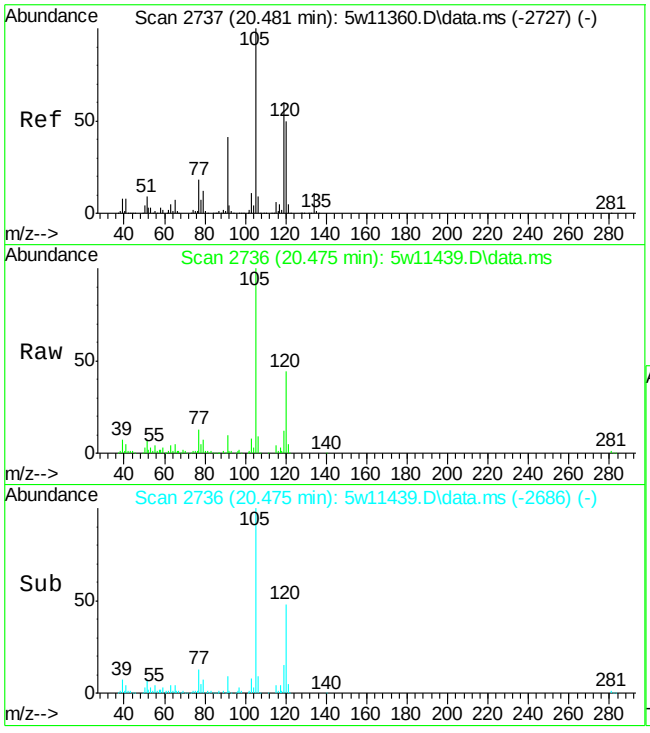


#91
1,3,5-Trimethylbenzene
Concen: 0.61 ppb(v)
RT: 19.912 min Scan# 2644
Delta R.T. -0.031 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion:105 Resp: 30324

Ion	Ratio	Lower	Upper
105	100		
120	46.8	34.2	63.4
119	13.2	8.8	16.4
77	13.9	9.0	16.6

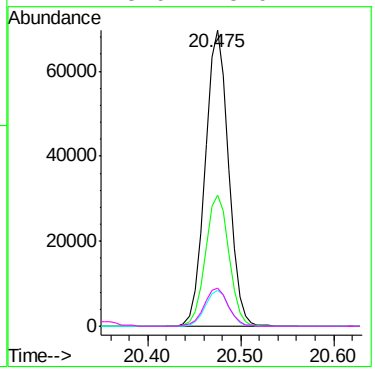


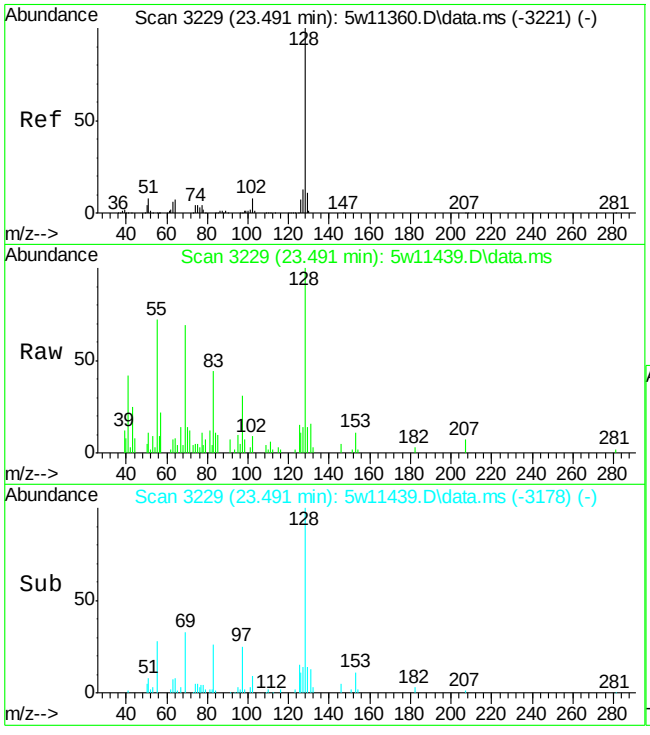


#94
1,2,4-Trimethylbenzene
Concen: 2.47 ppb(v)
RT: 20.475 min Scan# 2736
Delta R.T. -0.024 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion:105 Resp: 122893

Ion	Ratio	Lower	Upper
105	100		
120	44.4	35.0	65.0
119	12.1	45.2	84.0#
77	13.0	13.0	24.2#

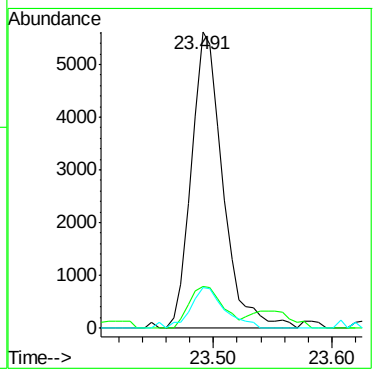




#104
Naphthalene
Concen: 0.25 ppb(v)
RT: 23.491 min Scan# 3229
Delta R.T. -0.018 min
Lab File: 5w11439.D
Acq: 8 May 2015 5:10 pm

Tgt Ion:128 Resp: 10292

Ion	Ratio	Lower	Upper
128	100		
127	14.2	8.8	16.4
129	13.8	7.6	14.2



Manual Integration Approval Summary

Sample Number:	JB94203-2	**Method:**	TO-15
Lab FileID:	5W11439.D	**Analyst approved:**	05/12/15 10:46 Michael Lee
Injection Time:	05/08/15 17:10	**Supervisor approved:**	05/13/15 12:15 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
2,3-Dimethylpentane	565-59-3		10.96	Split peak

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11518.D
Acq On : 12 May 2015 6:01 pm
Operator : mikel1
Sample : JB94203-2
Misc : MS84855,v5w452,20,,,,1.48
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 13 06:38:12 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

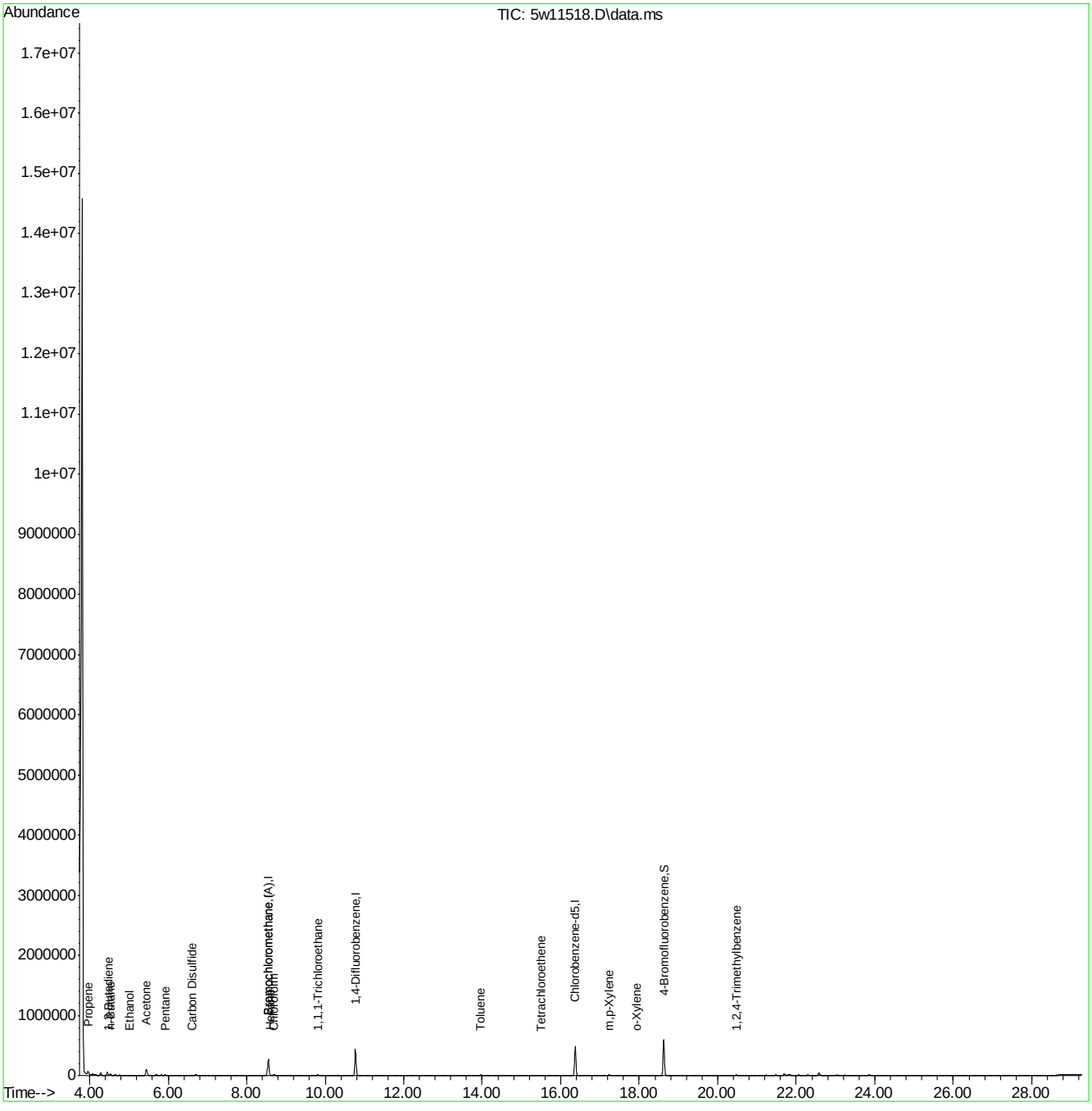
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.551	130	115712	10.00	ppb(v	#-0.02
53) 1,4-Difluorobenzene	10.772	114	401953	10.00	ppb(v	#-0.03
75) Chlorobenzene-d5	16.370	82	204259	10.00	ppb(v	-0.04
106) Bromochloromethane (A)	8.551	130	115712	10.00	ppb(v	#-0.02
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.627	95	263574	9.89	ppb(v	-0.04
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.90%			
Target Compounds						Qvalue
5) Propene	3.957	41	31823	3.82	ppb(v	97
11) 1,3-Butadiene	4.483	54	3871	0.47	ppb(v	87
12) n-Butane	4.532	58	1851	1.12	ppb(v#	47
21) Acetone	5.450	58	47706	8.80	ppb(v	85
22) Pentane	5.921	57	880	0.32	ppb(v#	50
29) Carbon Disulfide	6.612	76	5706	0.17	ppb(v	96
30) Ethanol	5.009	45	1172	0.21	ppb(v#	91
39) Hexane	8.588	57	1869	0.10	ppb(v#	38
44) Chloroform	8.698	83	11845	0.46	ppb(v	96
47) 1,1,1-Trichloroethane	9.812	97	9065	0.37	ppb(v	97
66) Toluene	13.966	91	10036	0.24	ppb(v#	98
71) Tetrachloroethene	15.495	166	1021	0.05	ppb(v	87
78) m,p-Xylene	17.232	91	11021	0.28	ppb(v	96
81) o-Xylene	17.936	91	4809	0.12	ppb(v#	94
94) 1,2,4-Trimethylbenzene	20.475	105	7147	0.16	ppb(v#	66

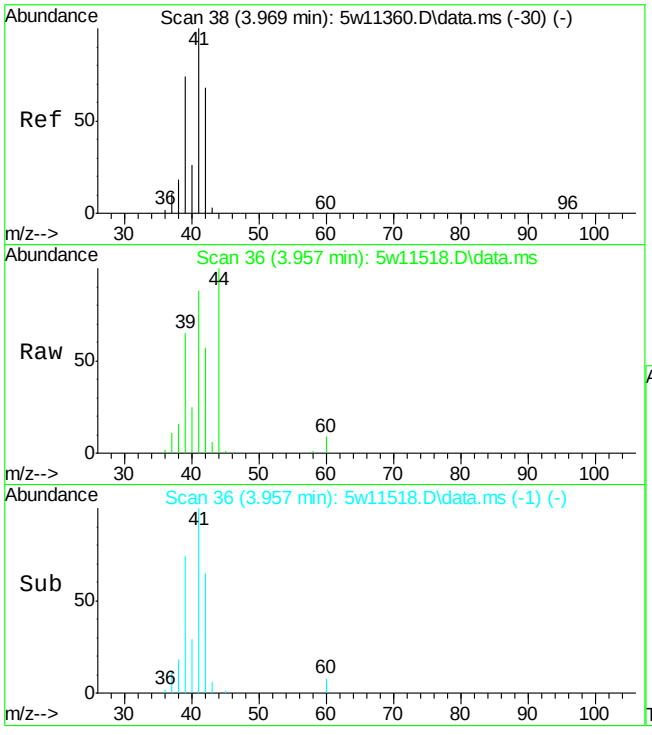
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11518.D
Acq On : 12 May 2015 6:01 pm
Operator : mikel1
Sample : JB94203-2
Misc : MS84855,v5w452,20,,,,1.48
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 13 06:38:12 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

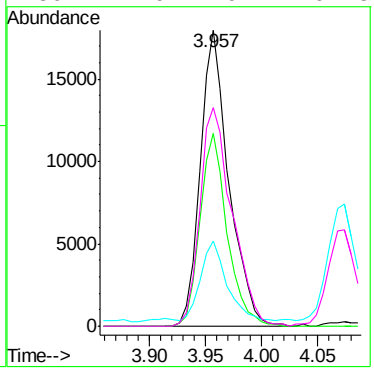


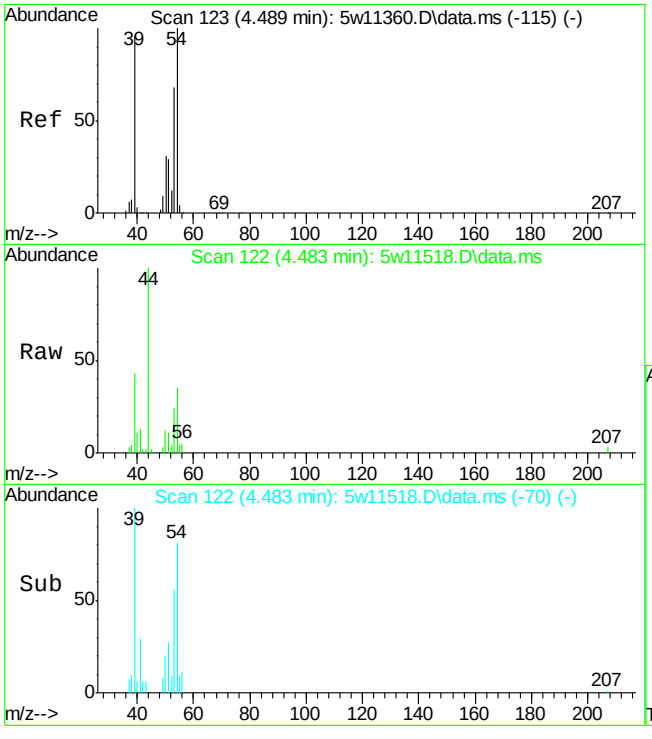


#5
Propene
Concen: 3.82 ppb(v)
RT: 3.957 min Scan# 36
Delta R.T. -0.012 min
Lab File: 5w11518.D
Acq: 12 May 2015 6:01 pm

Tgt Ion: 41 Resp: 31823

Ion	Ratio	Lower	Upper
41	100		
42	65.3	45.0	83.6
40	28.7	17.9	33.3
39	74.0	49.7	92.3

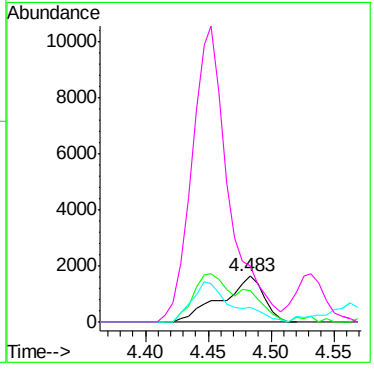


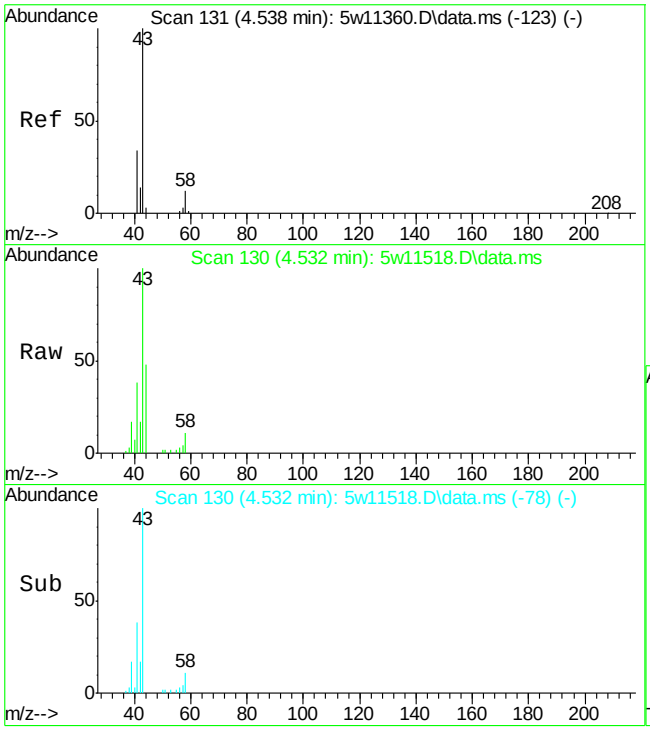


#11
1,3-Butadiene
Concen: 0.47 ppb(v)
RT: 4.483 min Scan# 122
Delta R.T. -0.012 min
Lab File: 5w11518.D
Acq: 12 May 2015 6:01 pm

Tgt Ion: 54 Resp: 3871

Ion	Ratio	Lower	Upper
54	100		
53	68.9	49.0	91.0
51	32.8	20.8	38.6
39	122.9	69.2	128.6

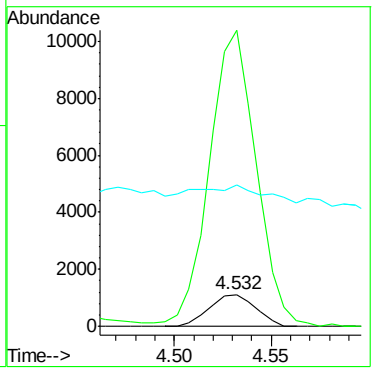


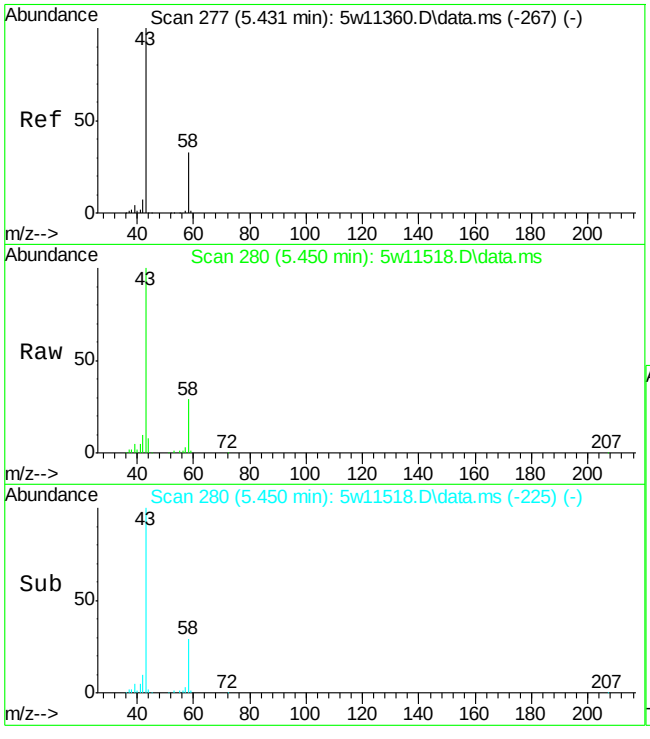


#12
n-Butane
Concen: 1.12 ppb(v)
RT: 4.532 min Scan# 130
Delta R.T. -0.012 min
Lab File: 5w11518.D
Acq: 12 May 2015 6:01 pm

Tgt Ion: 58 Resp: 1851

Ion	Ratio	Lower	Upper
58	100		
43	932.9	583.8	1084.2
44	444.3	25.6	47.6#

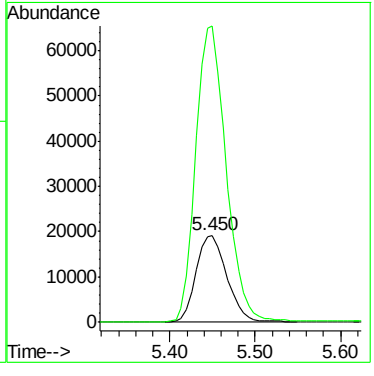


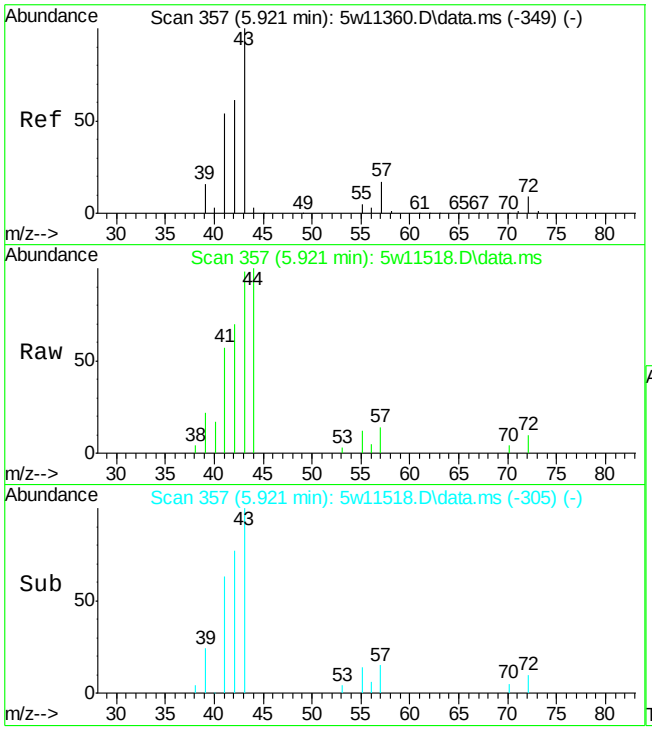


#21
Acetone
Concen: 8.80 ppb(v)
RT: 5.450 min Scan# 280
Delta R.T. 0.006 min
Lab File: 5w11518.D
Acq: 12 May 2015 6:01 pm

Tgt Ion: 58 Resp: 47706

Ion	Ratio	Lower	Upper
58	100		
43	340.5	217.8	404.6

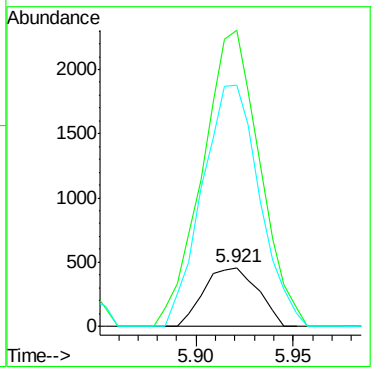


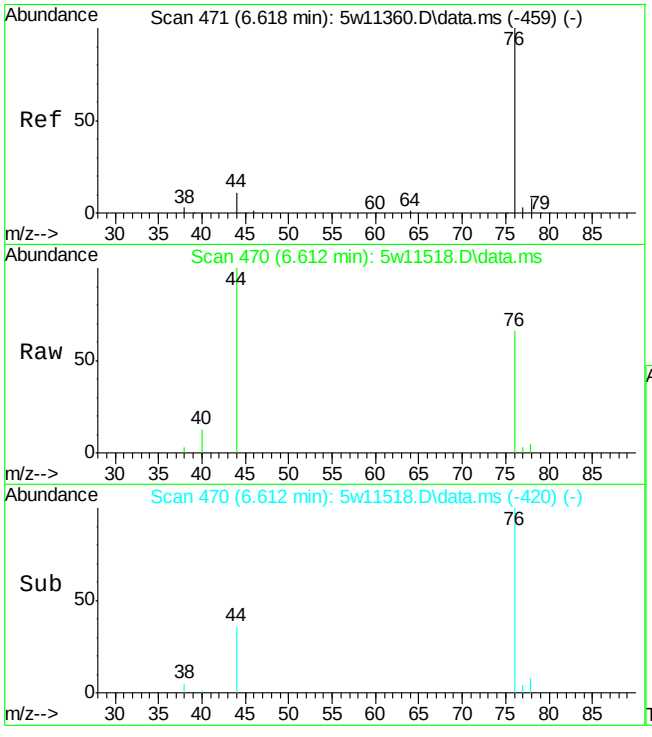


#22
Pentane
Concen: 0.32 ppb(v)
RT: 5.921 min Scan# 357
Delta R.T. -0.012 min
Lab File: 5w11518.D
Acq: 12 May 2015 6:01 pm

Tgt Ion: 57 Resp: 880

Ion	Ratio	Lower	Upper
57	100		
42	503.3	262.5	487.5#
41	409.6	225.7	419.1

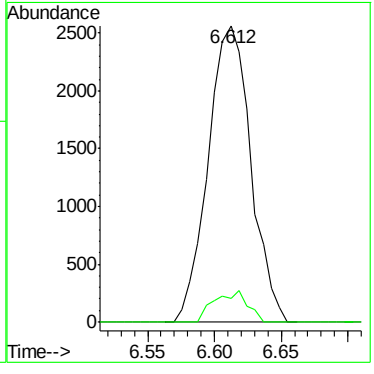


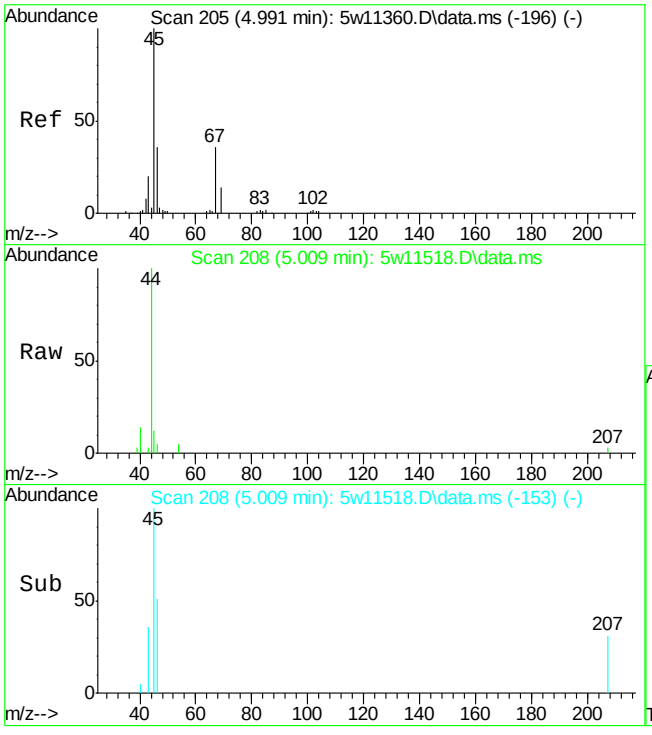


#29
Carbon Disulfide
Concen: 0.17 ppb(v)
RT: 6.612 min Scan# 470
Delta R.T. -0.025 min
Lab File: 5w11518.D
Acq: 12 May 2015 6:01 pm

Tgt Ion: 76 Resp: 5706

Ion	Ratio	Lower	Upper
76	100		
78	8.0	6.6	12.4

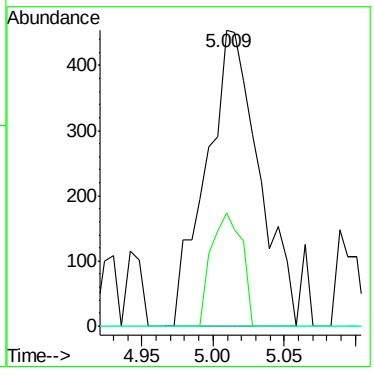


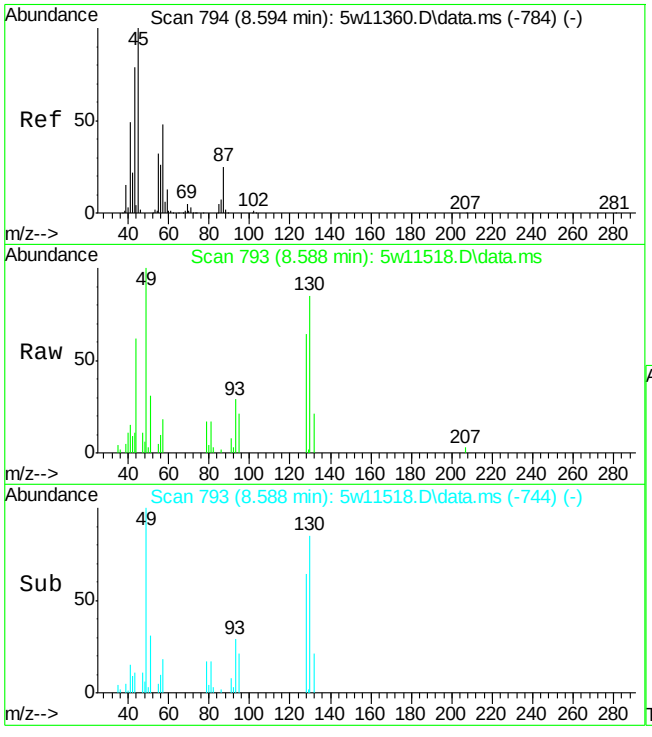


#30
Ethanol
Concen: 0.21 ppb(v)
RT: 5.009 min Scan# 208
Delta R.T. 0.006 min
Lab File: 5w11518.D
Acq: 12 May 2015 6:01 pm

Tgt Ion: 45 Resp: 1172

Ion	Ratio	Lower	Upper
45	100		
46	38.3	24.6	45.6
42	0.0	5.5	10.1#

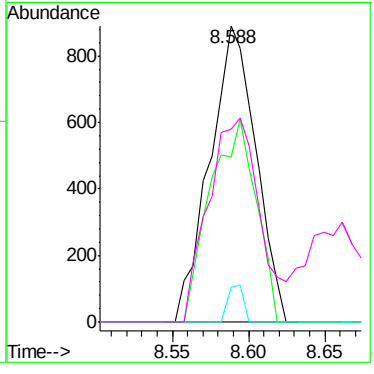




#39
Hexane
Concen: 0.10 ppb(v)
RT: 8.588 min Scan# 793
Delta R.T. -0.030 min
Lab File: 5w11518.D
Acq: 12 May 2015 6:01 pm

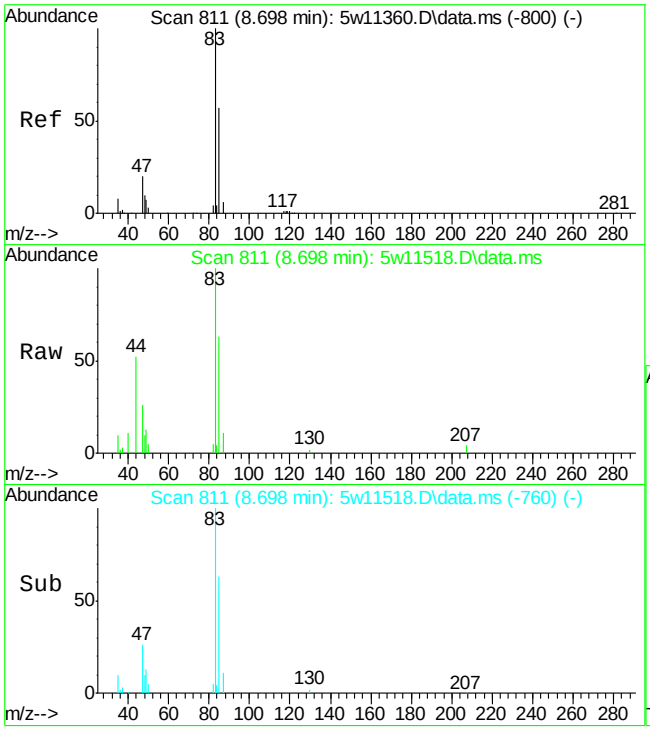
Tgt Ion: 57 Resp: 1869

Ion	Ratio	Lower	Upper
57	100		
56	55.5	37.4	69.4
86	11.8	10.4	19.2
43	65.1	130.8	242.8#



7.1.3

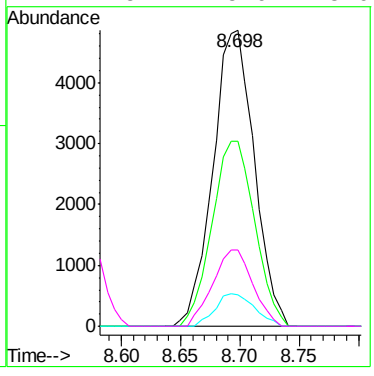
7

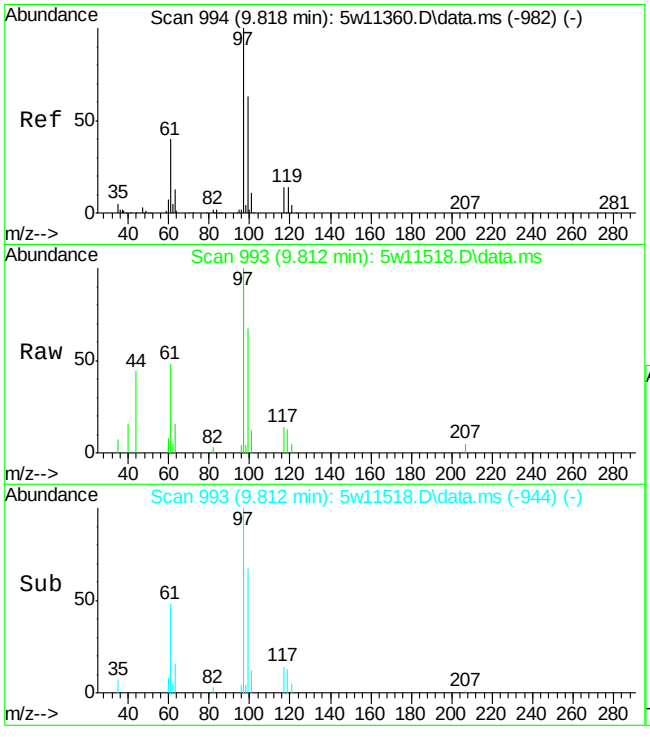


#44
Chloroform
Concen: 0.46 ppb(v)
RT: 8.698 min Scan# 811
Delta R.T. -0.018 min
Lab File: 5w11518.D
Acq: 12 May 2015 6:01 pm

Tgt Ion: 83 Resp: 11845

Ion	Ratio	Lower	Upper
83	100		
85	62.5	45.0	83.6
87	10.5	7.3	13.5
47	25.7	15.0	28.0

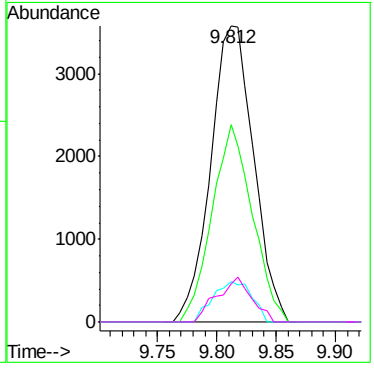


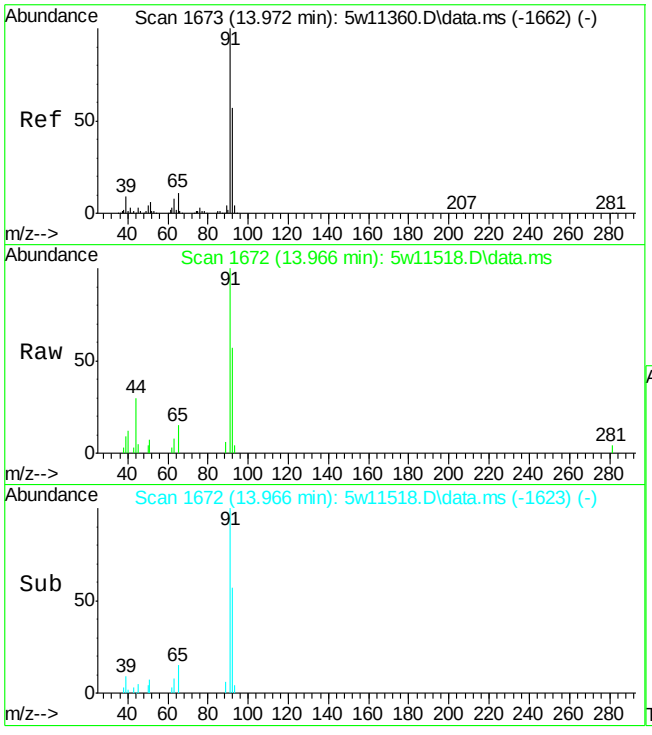


#47
1,1,1-Trichloroethane
Concen: 0.37 ppb(v)
RT: 9.812 min Scan# 993
Delta R.T. -0.031 min
Lab File: 5w11518.D
Acq: 12 May 2015 6:01 pm

Tgt Ion: 97 Resp: 9065

Ion	Ratio	Lower	Upper
97	100		
99	66.7	44.9	83.3
117	13.7	10.1	18.7
119	12.8	9.4	17.4

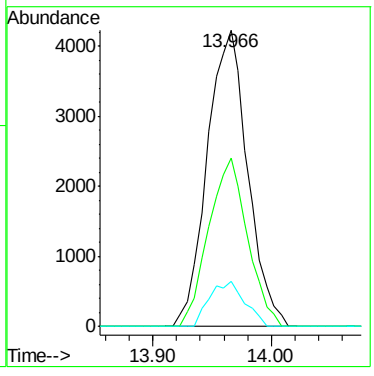


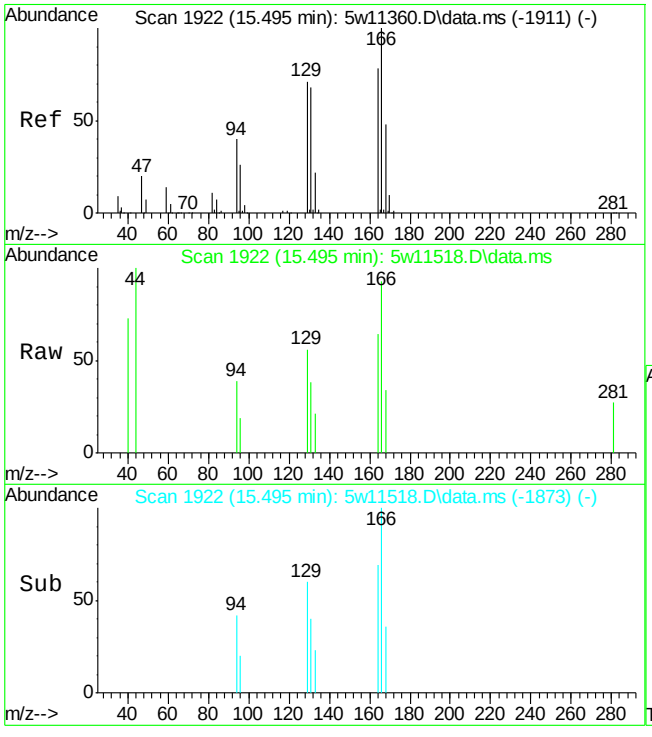


#66
Toluene
Concen: 0.24 ppb(v)
RT: 13.966 min Scan# 1672
Delta R.T. -0.031 min
Lab File: 5w11518.D
Acq: 12 May 2015 6:01 pm

Tgt Ion: 91 Resp: 10036

Ion	Ratio	Lower	Upper
91	100		
92	57.0	40.3	74.9
65	15.2	7.6	14.0#

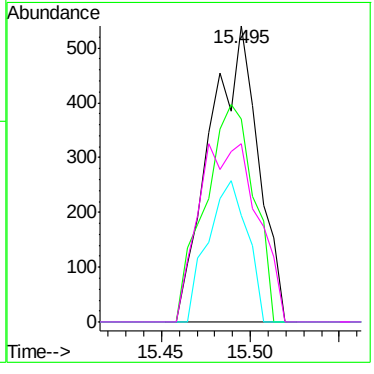


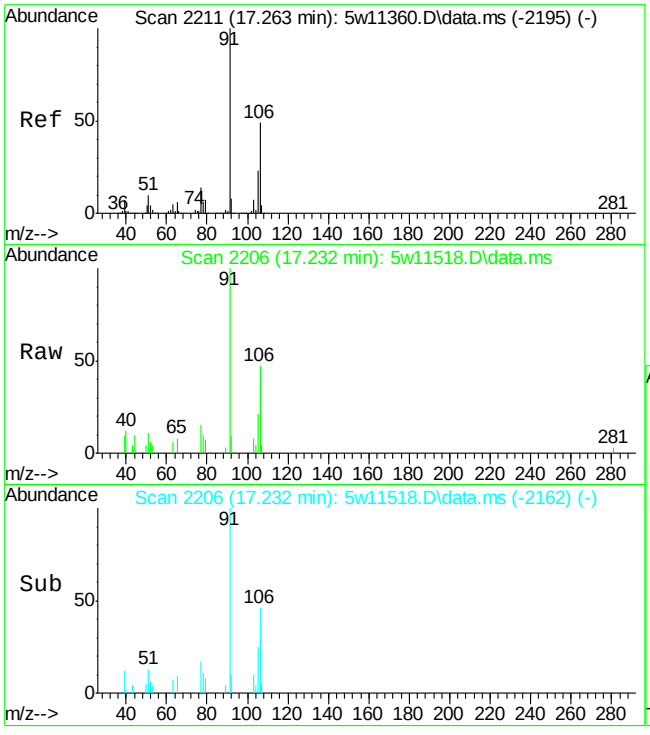


#71
Tetrachloroethene
Concen: 0.05 ppb(v)
RT: 15.495 min Scan# 1922
Delta R.T. -0.031 min
Lab File: 5w11518.D
Acq: 12 May 2015 6:01 pm

Tgt Ion:166 Resp: 1021

Ion	Ratio	Lower	Upper
166	100		
164	68.5	54.3	100.9
168	36.1	33.9	62.9
129	60.2	48.6	90.3

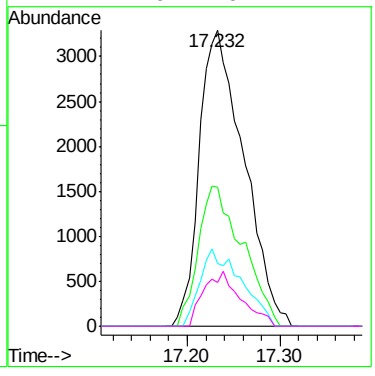


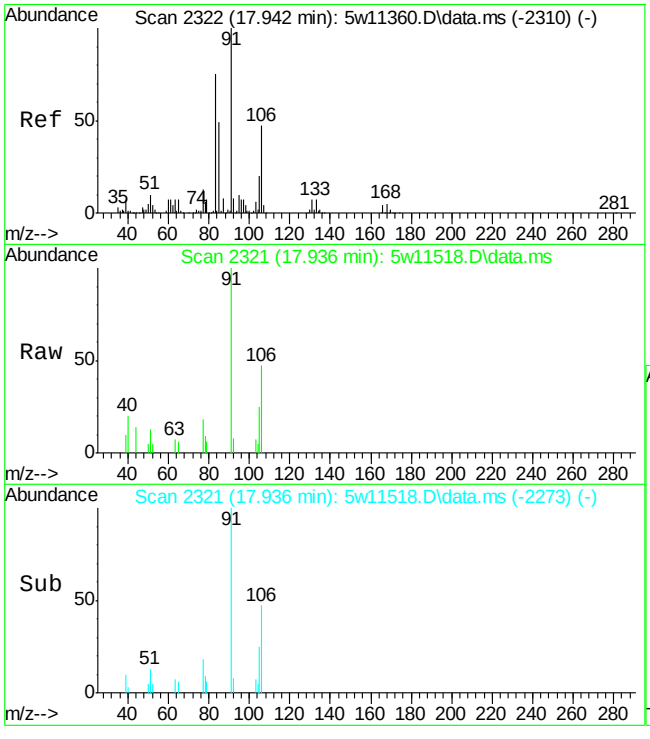


#78
m,p-Xylene
Concen: 0.28 ppb(v)
RT: 17.232 min Scan# 2206
Delta R.T. -0.061 min
Lab File: 5w11518.D
Acq: 12 May 2015 6:01 pm

Tgt Ion: 91 Resp: 11021

Ion	Ratio	Lower	Upper
91	100		
106	46.8	35.1	65.1
105	21.4	16.0	29.8
77	14.9	9.4	17.4

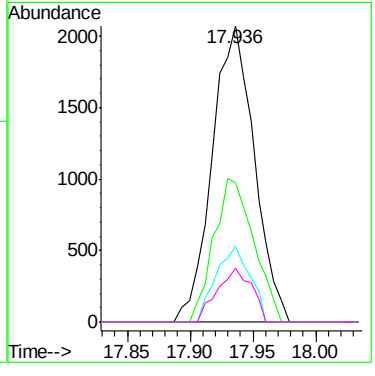


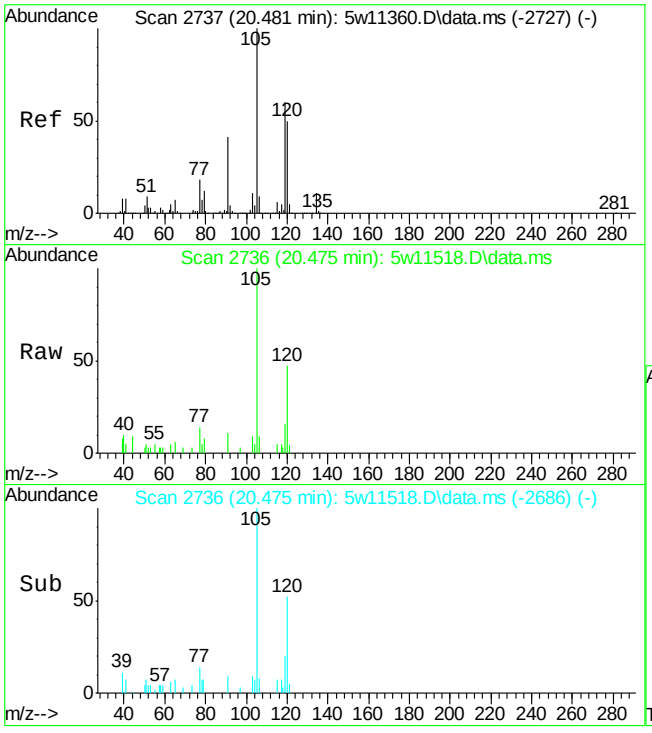


#81
o-Xylene
Concen: 0.12 ppb(v)
RT: 17.936 min Scan# 2321
Delta R.T. -0.037 min
Lab File: 5w11518.D
Acq: 12 May 2015 6:01 pm

Tgt Ion: 91 Resp: 4809

Ion	Ratio	Lower	Upper
91	100		
106	47.1	33.5	62.1
105	25.3	13.4	24.8#
77	18.2	8.8	16.3#

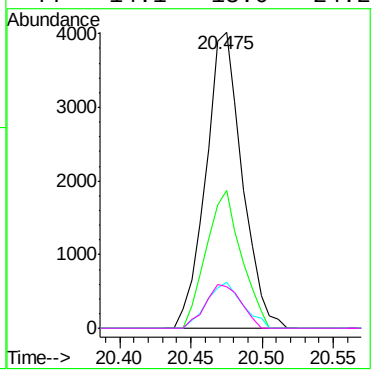




#94
1,2,4-Trimethylbenzene
Concen: 0.16 ppb(v)
RT: 20.475 min Scan# 2736
Delta R.T. -0.024 min
Lab File: 5w11518.D
Acq: 12 May 2015 6:01 pm

Tgt Ion:105 Resp: 7147

Ion	Ratio	Lower	Upper
105	100		
120	46.5	35.0	65.0
119	15.6	45.2	84.0#
77	14.1	13.0	24.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11471.D
Acq On : 9 May 2015 7:35 pm
Operator : mikel1
Sample : JB94203-2
Misc : MS84855,v5w450,50,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 12 08:07:44 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.570	130	97141	10.00	ppb(v	# 0.00
53) 1,4-Difluorobenzene	10.784	114	370896	10.00	ppb(v	#-0.02
75) Chlorobenzene-d5	16.376	82	212396	10.00	ppb(v	-0.03
106) Bromochloromethane (A)	8.570	130	97141	10.00	ppb(v	# 0.00
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.627	95	283654	10.24	ppb(v	-0.04
Spiked Amount 10.000	Range 65 - 128		Recovery = 102.40%			
Target Compounds						Qvalue
5) Propene	3.957	41	141156	20.20	ppb(v	98
6) Dichlorodifluoromethane	4.024	85	6908	0.28	ppb(v	99
11) 1,3-Butadiene	4.489	54	15032	2.19	ppb(v	88
12) n-Butane	4.538	58	7505	5.40	ppb(v#	62
21) Acetone	5.456	58	182673	40.13	ppb(v	83
22) Pentane	5.927	57	4383	1.88	ppb(v	86
29) Carbon Disulfide	6.618	76	22652	0.79	ppb(v	96
30) Ethanol	5.028	45	4190	0.91	ppb(v#	97
34) tert-Butyl Alcohol	6.276	59	5902	0.26	ppb(v#	77
38) 2-Butanone	7.934	72	2689	0.53	ppb(v	63
39) Hexane	8.594	57	9322	0.57	ppb(v#	40
42) Ethyl Acetate	8.662	61	372	0.11	ppb(v#	55
44) Chloroform	8.710	83	45469	2.08	ppb(v	96
47) 1,1,1-Trichloroethane	9.824	97	34602	1.70	ppb(v	98
49) Benzene	10.362	78	9280	0.29	ppb(v	97
51) Cyclohexane	10.680	56	2156	0.14	ppb(v	88
55) Heptane	12.002	71	2395	0.24	ppb(v	86
56) Trichloroethene	11.641	95	576	0.04	ppb(v#	68
66) Toluene	13.966	91	54194	1.39	ppb(v	98
71) Tetrachloroethene	15.495	166	1776	0.09	ppb(v	93
73) Octane	15.318	43	4406	0.18	ppb(v#	80
77) Ethylbenzene	16.988	91	16799	0.33	ppb(v	98
78) m,p-Xylene	17.232	91	68808	1.66	ppb(v	97
79) Styrene	17.777	104	10577	0.37	ppb(v	98
80) Nonane	18.309	43	6442	0.25	ppb(v#	85
81) o-Xylene	17.936	91	29831	0.74	ppb(v	97
88) n-Propylbenzene	19.594	120	1804	0.13	ppb(v	84
90) 4-Ethyltoluene	19.802	105	13067	0.24	ppb(v	99
91) 1,3,5-Trimethylbenzene	19.918	105	11853	0.26	ppb(v	98
94) 1,2,4-Trimethylbenzene	20.475	105	48811	1.07	ppb(v#	63

(#) = qualifier out of range (m) = manual integration (+) = signals summed

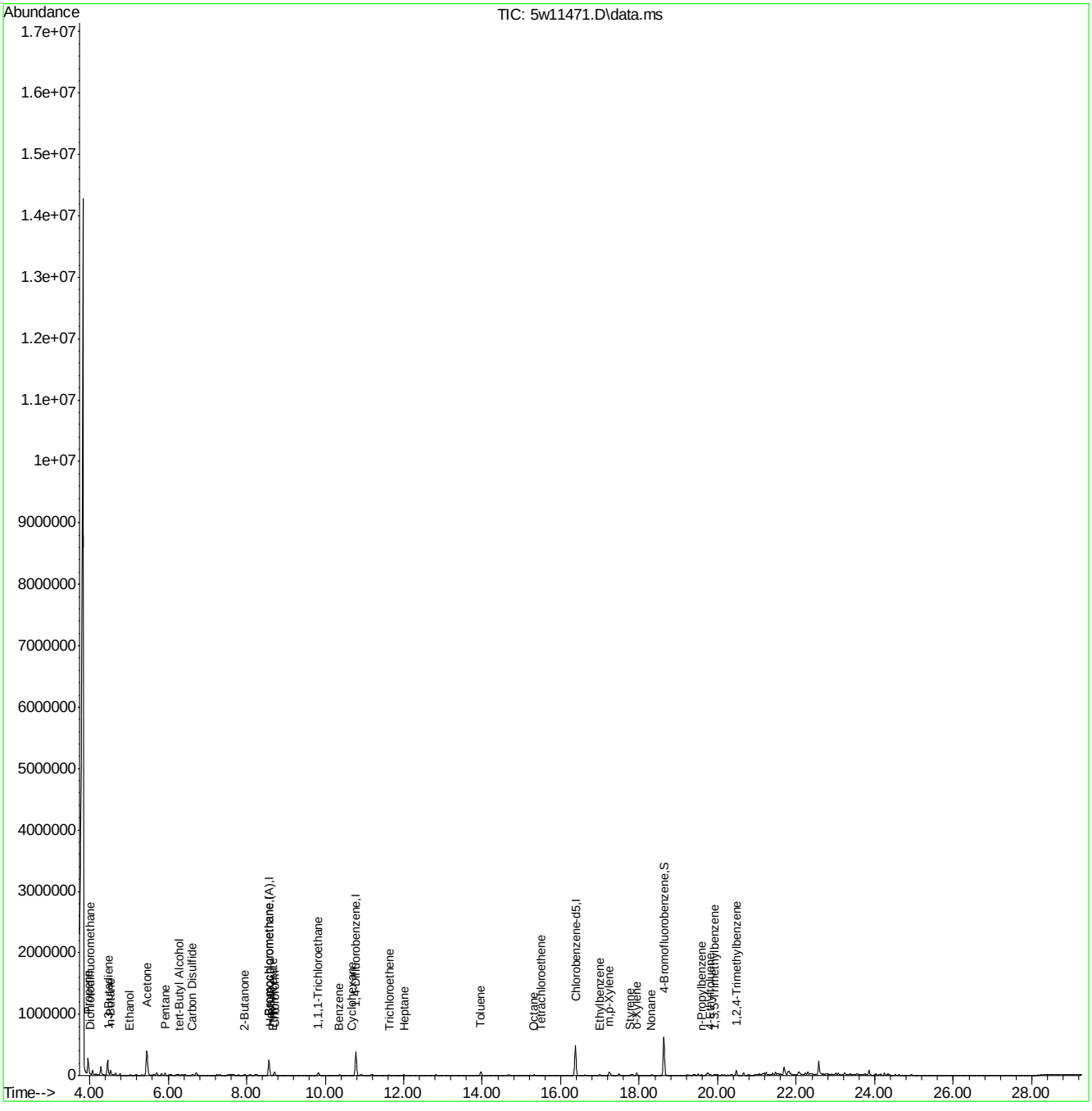
7.1.4

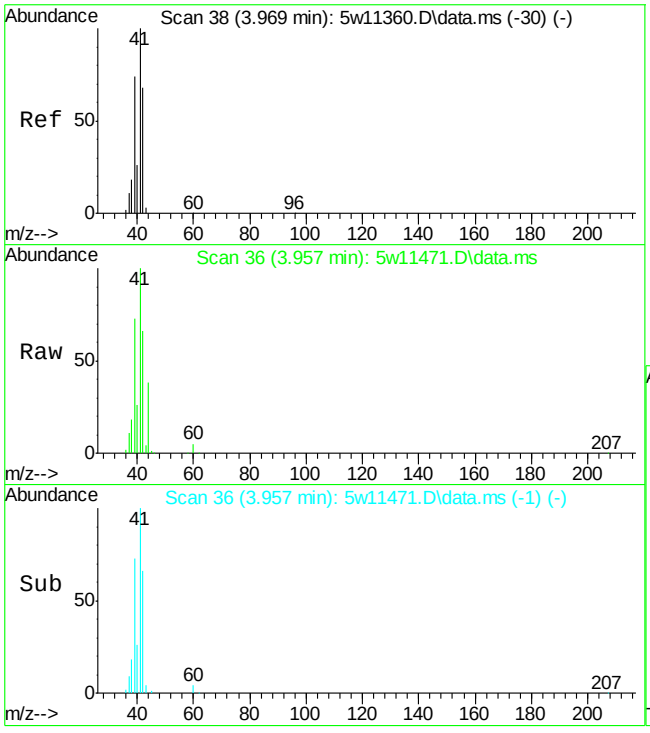
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11471.D
Acq On : 9 May 2015 7:35 pm
Operator : mikel1
Sample : JB94203-2
Misc : MS84855,v5w450,50,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 12 08:07:44 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

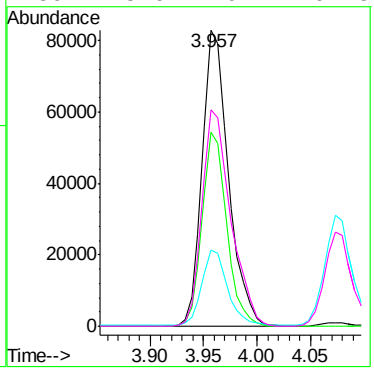


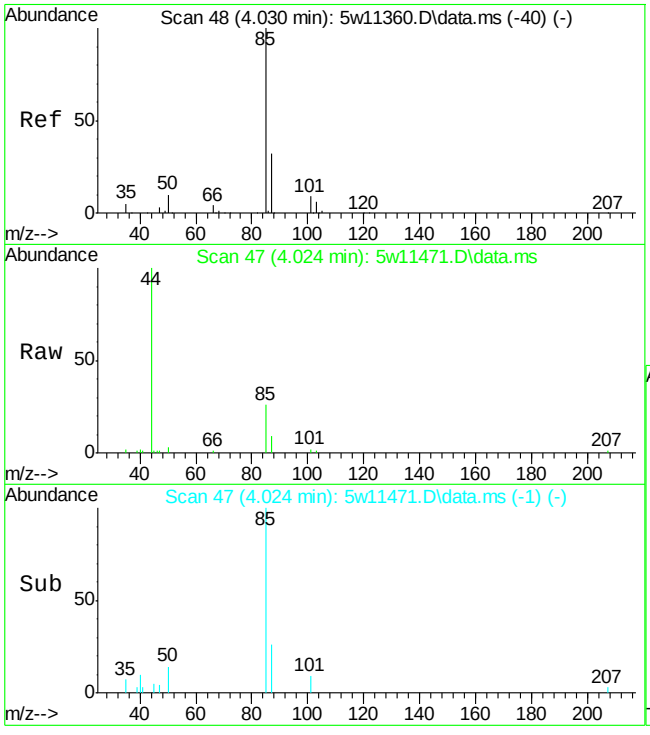


#5
Propene
Concen: 20.20 ppb(v)
RT: 3.957 min Scan# 36
Delta R.T. -0.012 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion: 41 Resp: 141156

Ion	Ratio	Lower	Upper
41	100		
42	65.5	45.0	83.6
40	25.9	17.9	33.3
39	73.0	49.7	92.3

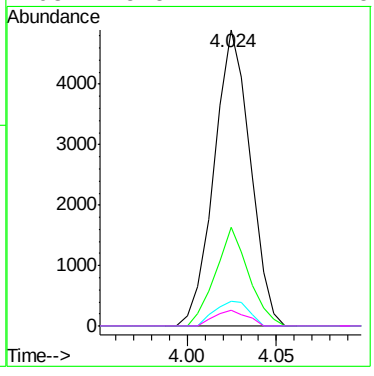


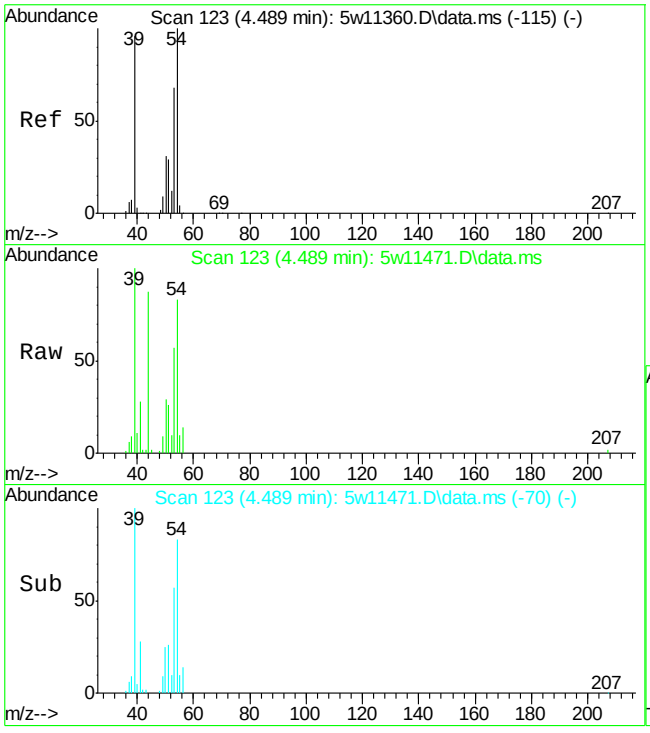


#6
Dichlorodifluoromethane
Concen: 0.28 ppb(v)
RT: 4.024 min Scan# 47
Delta R.T. -0.012 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion: 85 Resp: 6908

Ion	Ratio	Lower	Upper
85	100		
87	33.3	22.7	42.1
101	8.4	6.0	11.2
103	5.5	4.1	7.5

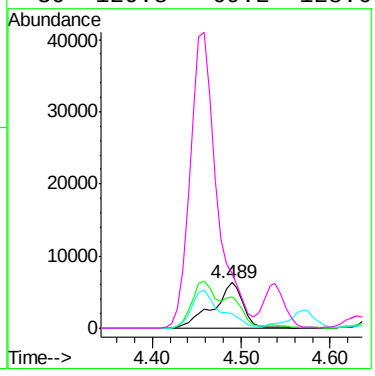


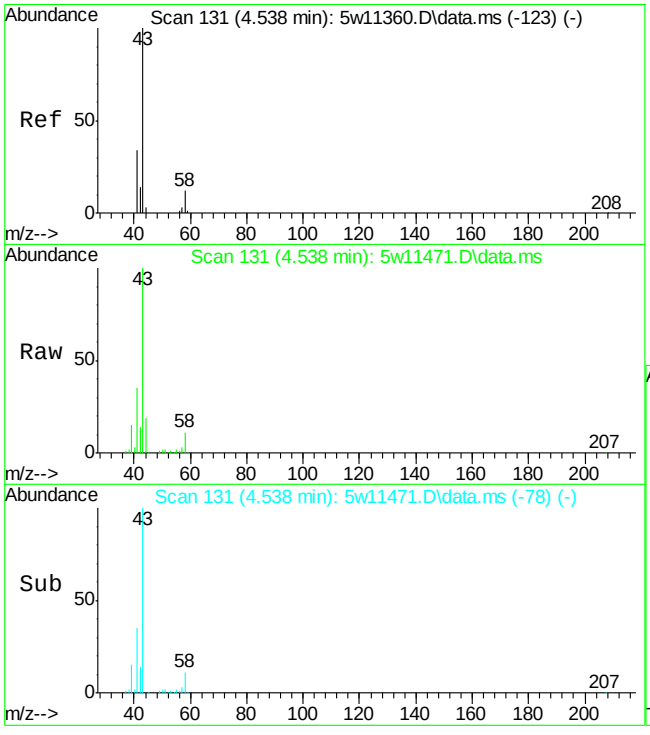


#11
1,3-Butadiene
Concen: 2.19 ppb(v)
RT: 4.489 min Scan# 123
Delta R.T. -0.006 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion: 54 Resp: 15032

Ion	Ratio	Lower	Upper
54	100		
53	68.4	49.0	91.0
51	30.8	20.8	38.6
39	120.8	69.2	128.6

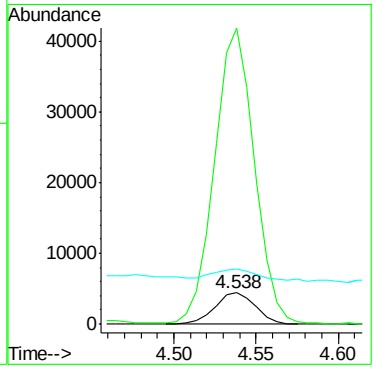




#12
n-Butane
Concen: 5.40 ppb(v)
RT: 4.538 min Scan# 131
Delta R.T. -0.006 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion: 58 Resp: 7505

Ion	Ratio	Lower	Upper
58	100		
43	949.1	583.8	1084.2
44	178.1	25.6	47.6#



7.1.4

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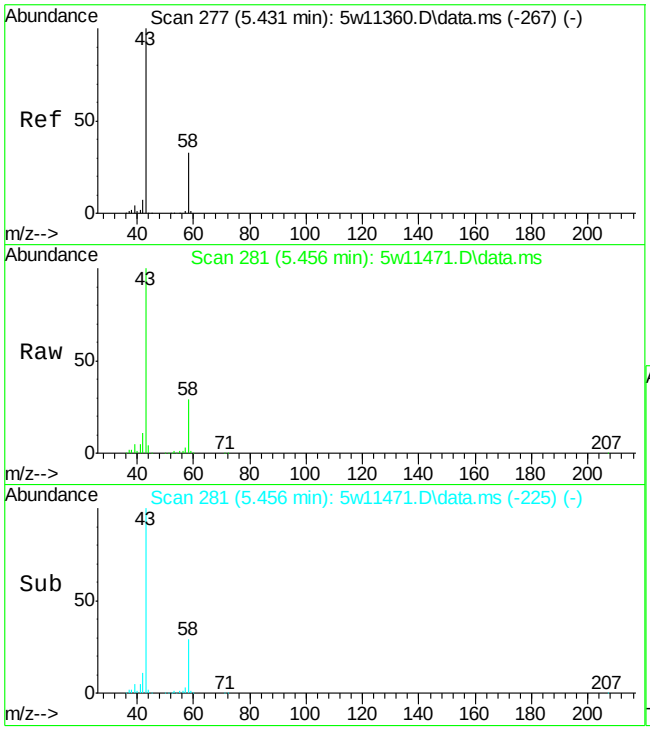
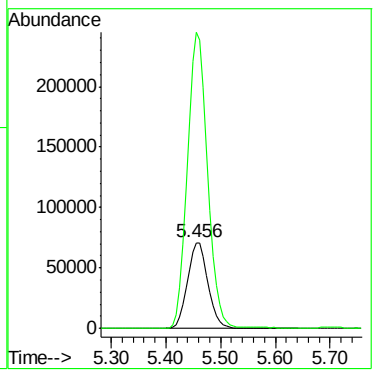
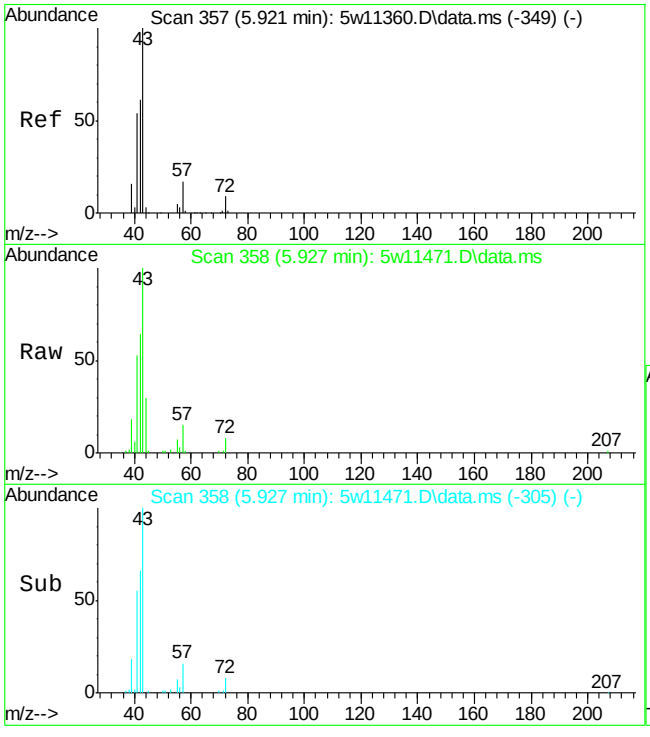


#21
Acetone
Concen: 40.13 ppb(v)
RT: 5.456 min Scan# 281
Delta R.T. 0.012 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion: 58 Resp: 182673

Ion	Ratio	Lower	Upper
58	100		
43	346.2	217.8	404.6

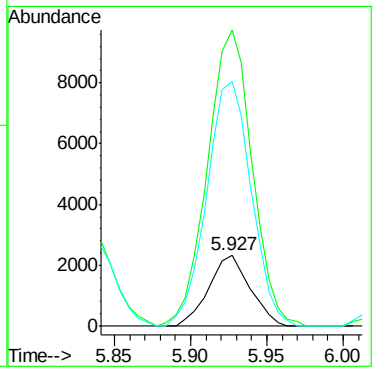


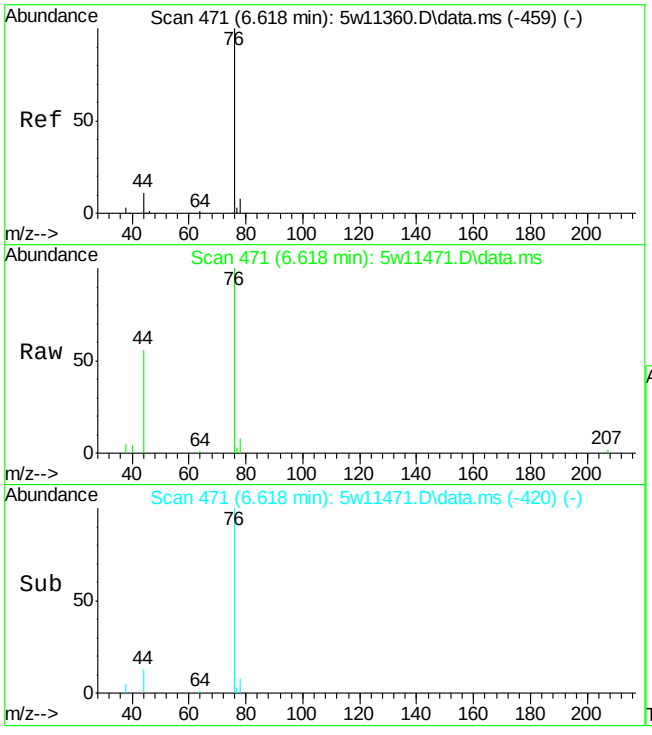


#22
Pentane
Concen: 1.88 ppb(v)
RT: 5.927 min Scan# 358
Delta R.T. -0.006 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion: 57 Resp: 4383

Ion	Ratio	Lower	Upper
57	100		
42	415.7	262.5	487.5
41	343.2	225.7	419.1

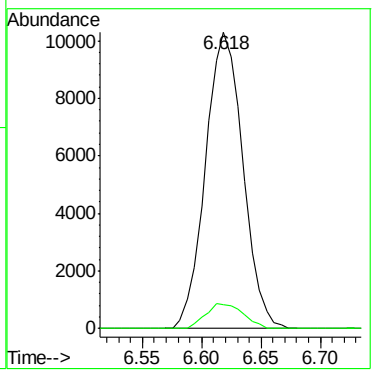


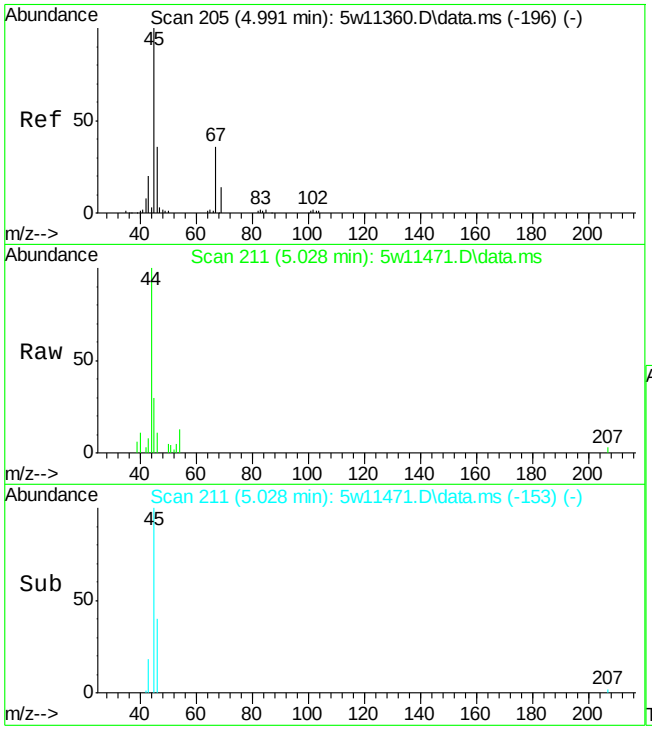


#29
Carbon Disulfide
Concen: 0.79 ppb(v)
RT: 6.618 min Scan# 471
Delta R.T. -0.019 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion: 76 Resp: 22652

Ion	Ratio	Lower	Upper
76	100		
78	8.0	6.6	12.4

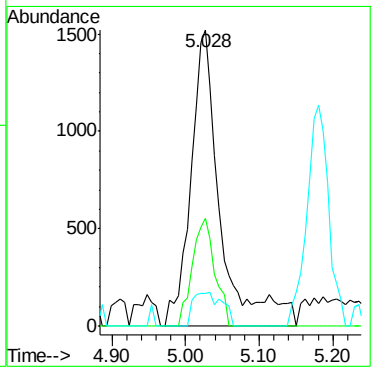




#30
Ethanol
Concen: 0.91 ppb(v)
RT: 5.028 min Scan# 211
Delta R.T. 0.025 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion: 45 Resp: 4190

Ion	Ratio	Lower	Upper
45	100		
46	36.2	24.6	45.6
42	11.1	5.5	10.1#



7.1.4

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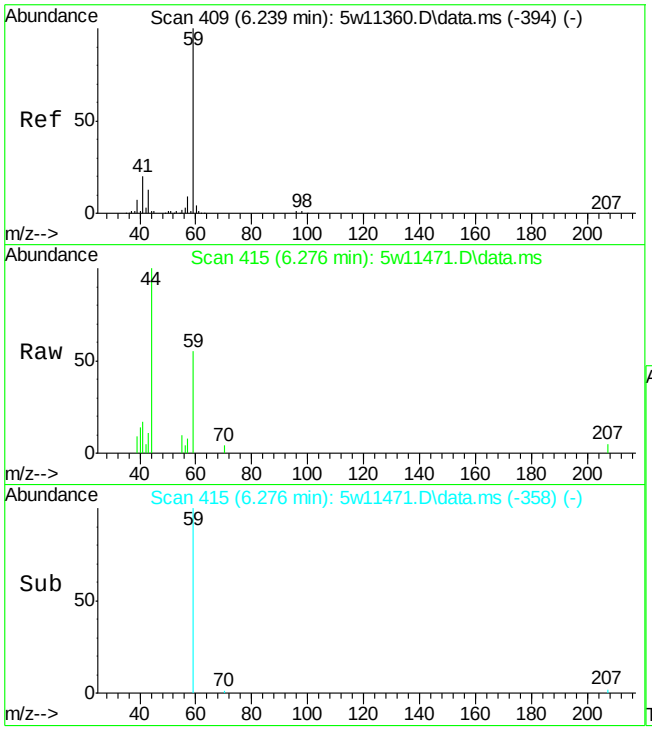
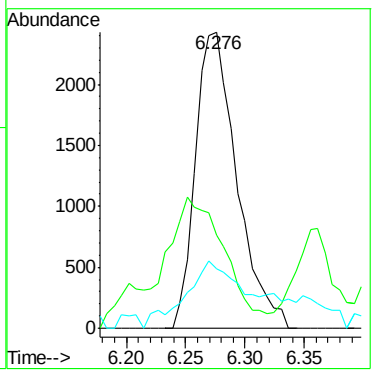
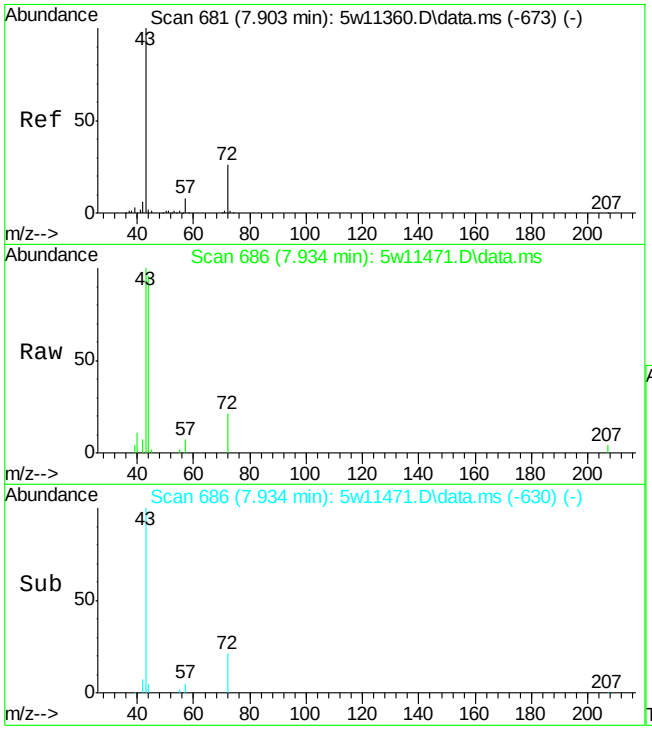


#34
tert-Butyl Alcohol
Concen: 0.26 ppb(v)
RT: 6.276 min Scan# 415
Delta R.T. 0.019 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion: 59 Resp: 5902

Ion	Ratio	Lower	Upper
59	100		
41	31.4	13.4	24.8#
43	20.1	9.3	17.3#

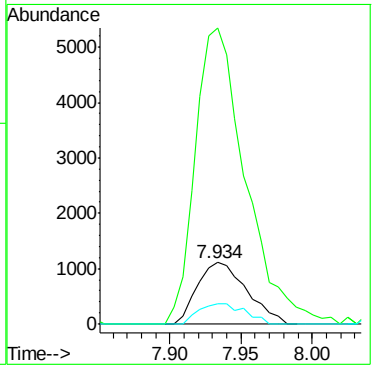




#38
2-Butanone
Concen: 0.53 ppb(v)
RT: 7.934 min Scan# 686
Delta R.T. 0.013 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion: 72 Resp: 2689

Ion	Ratio	Lower	Upper
72	100		
43	483.4	274.1	508.9
57	33.8	22.1	41.1



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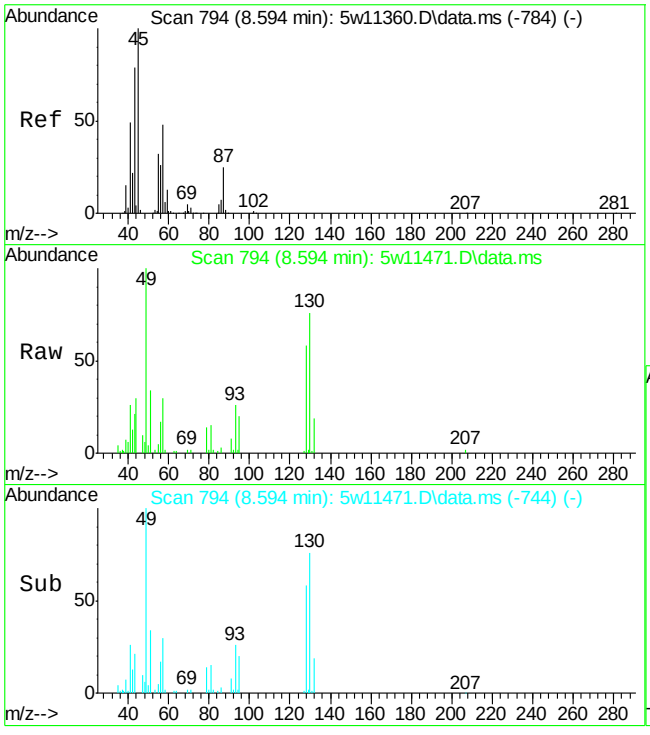
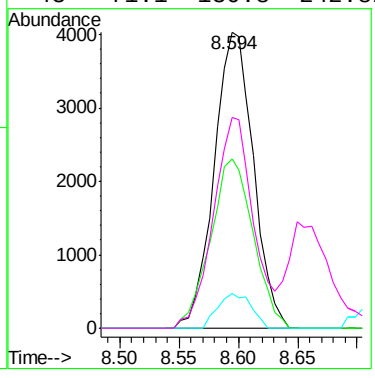
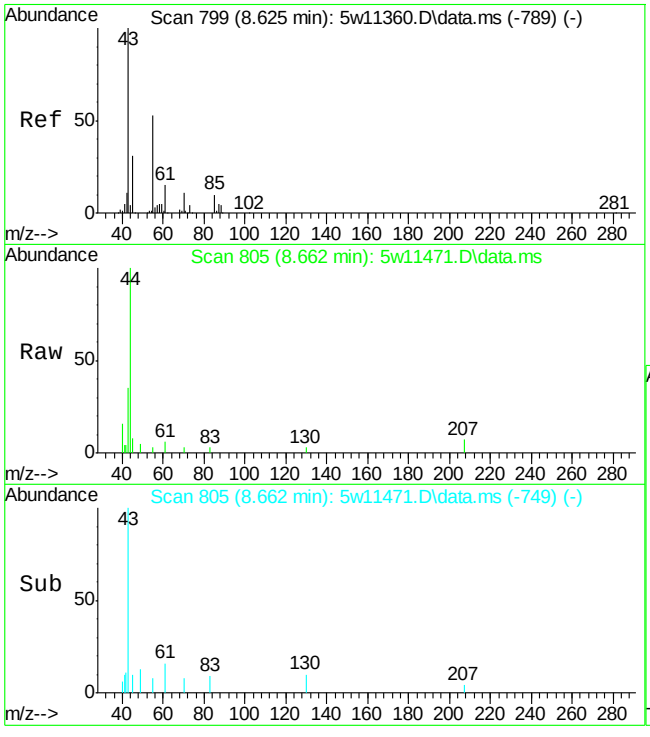


#39
Hexane
Concen: 0.57 ppb(v)
RT: 8.594 min Scan# 794
Delta R.T. -0.024 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion: 57 Resp: 9322

Ion	Ratio	Lower	Upper
57	100		
56	57.3	37.4	69.4
86	11.6	10.4	19.2
43	71.1	130.8	242.8#

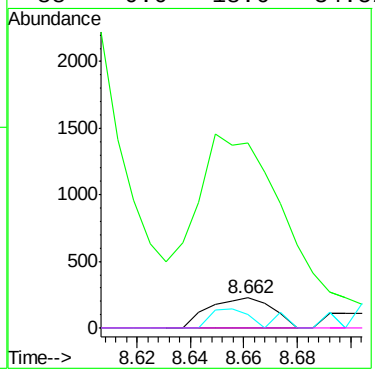


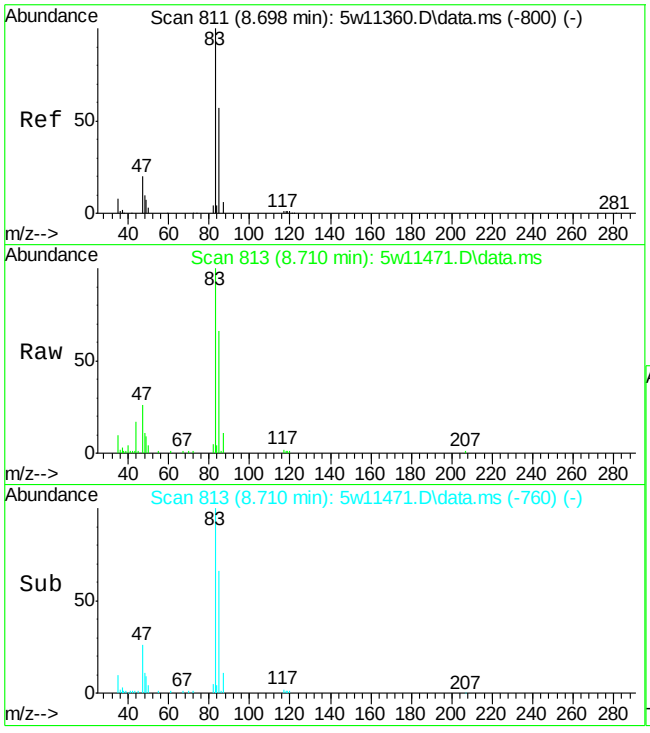


#42
Ethyl Acetate
Concen: 0.11 ppb(v)
RT: 8.662 min Scan# 805
Delta R.T. 0.013 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion: 61 Resp: 372

Ion	Ratio	Lower	Upper
61	100		
43	620.5	556.0	1032.6
70	46.9	50.3	93.3#
88	0.0	18.6	34.5#

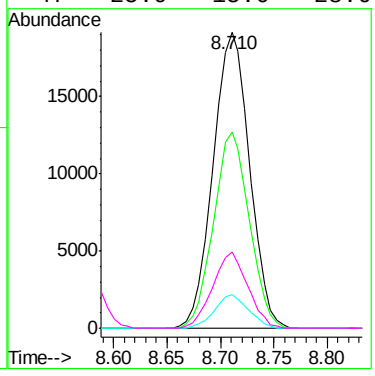


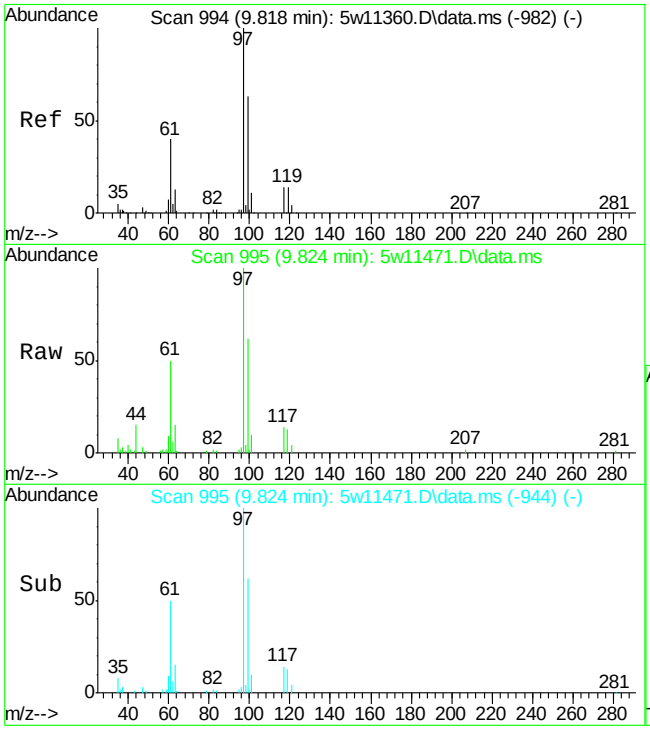


#44
Chloroform
Concen: 2.08 ppb(v)
RT: 8.710 min Scan# 813
Delta R.T. -0.006 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion: 83 Resp: 45469

Ion	Ratio	Lower	Upper
83	100		
85	66.3	45.0	83.6
87	11.4	7.3	13.5
47	25.9	15.0	28.0

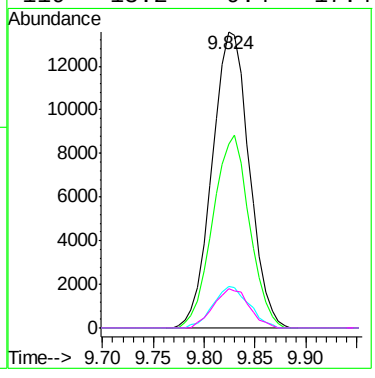


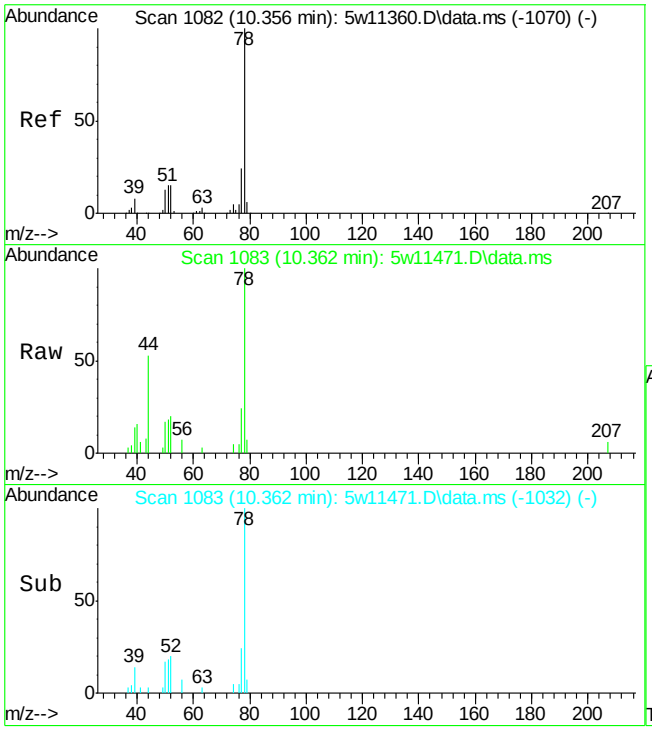


#47
1,1,1-Trichloroethane
Concen: 1.70 ppb(v)
RT: 9.824 min Scan# 995
Delta R.T. -0.018 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion: 97 Resp: 34602

Ion	Ratio	Lower	Upper
97	100		
99	62.2	44.9	83.3
117	14.1	10.1	18.7
119	13.2	9.4	17.4

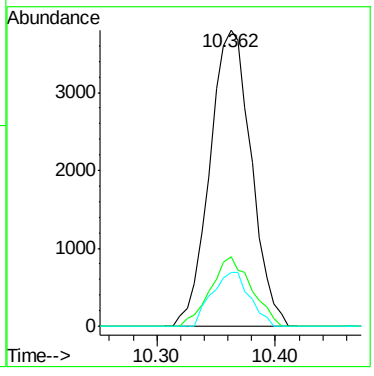


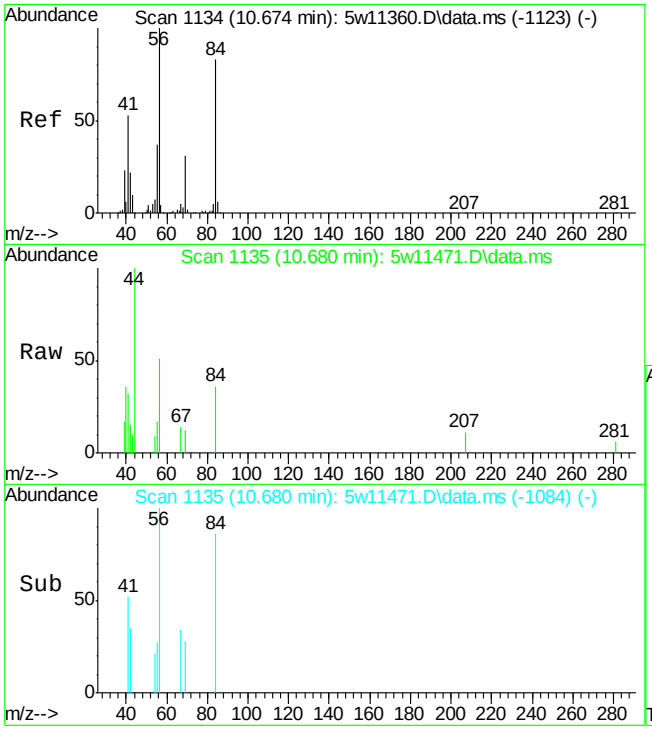


#49
Benzene
Concen: 0.29 ppb(v)
RT: 10.362 min Scan# 1083
Delta R.T. -0.018 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion: 78 Resp: 9280

Ion	Ratio	Lower	Upper
78	100		
77	23.5	16.6	30.8
51	18.2	10.6	19.6

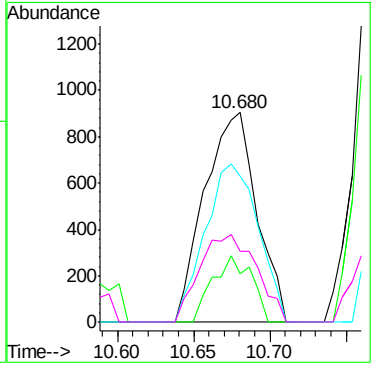




#51
Cyclohexane
Concen: 0.14 ppb(v)
RT: 10.680 min Scan# 1135
Delta R.T. -0.018 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion: 56 Resp: 2156

Ion	Ratio	Lower	Upper
56	100		
69	23.1	22.1	41.1
84	69.9	57.8	107.4
55	33.7	26.2	48.6



7.1.4

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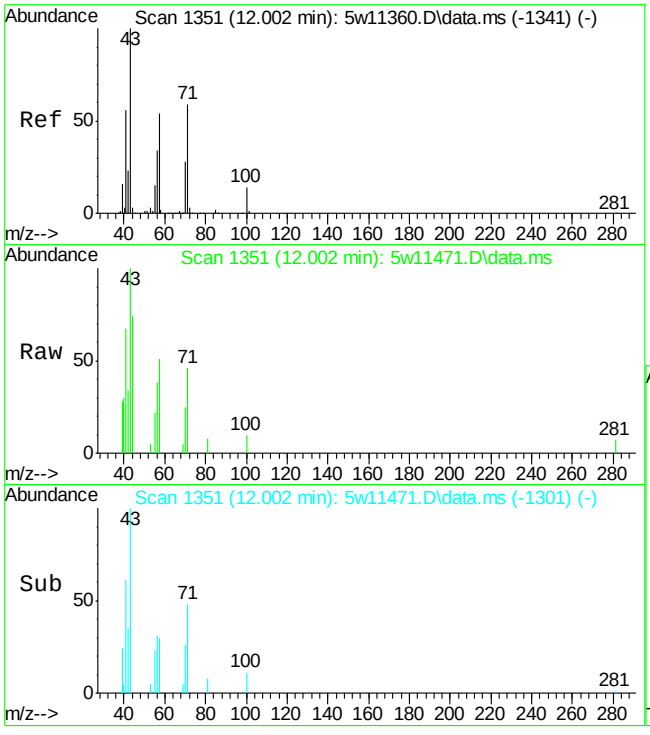
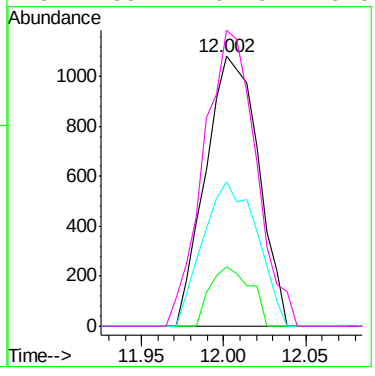
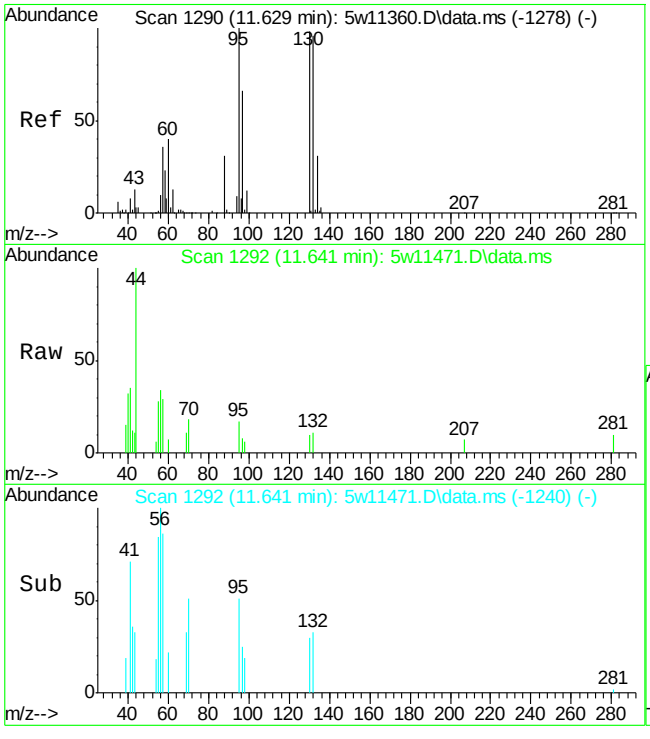


#55
Heptane
Concen: 0.24 ppb(v)
RT: 12.002 min Scan# 1351
Delta R.T. -0.024 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion: 71 Resp: 2395

Ion	Ratio	Lower	Upper
71	100		
100	22.0	18.3	33.9
70	53.6	33.5	62.1
57	109.7	64.9	120.5

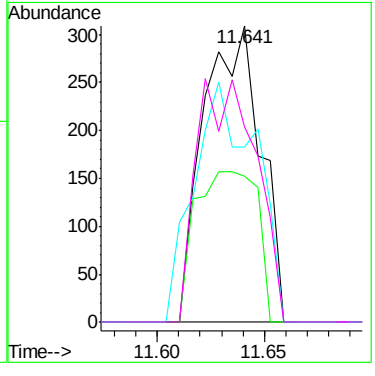


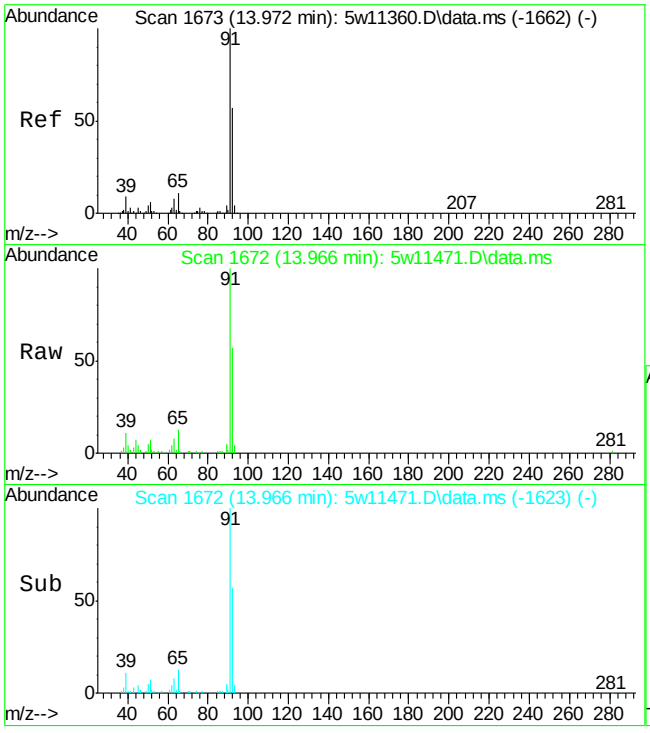


#56
Trichloroethene
Concen: 0.04 ppb(v)
RT: 11.641 min Scan# 1292
Delta R.T. -0.012 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion: 95 Resp: 576

Ion	Ratio	Lower	Upper
95	100		
97	49.2	46.0	85.4
130	59.2	69.8	129.6#
132	66.0	67.3	124.9#

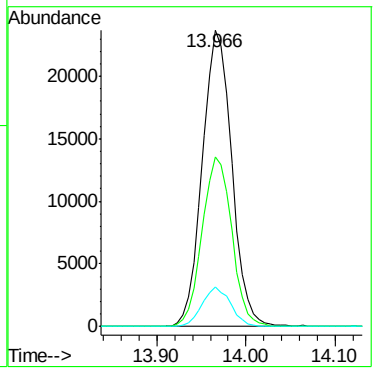


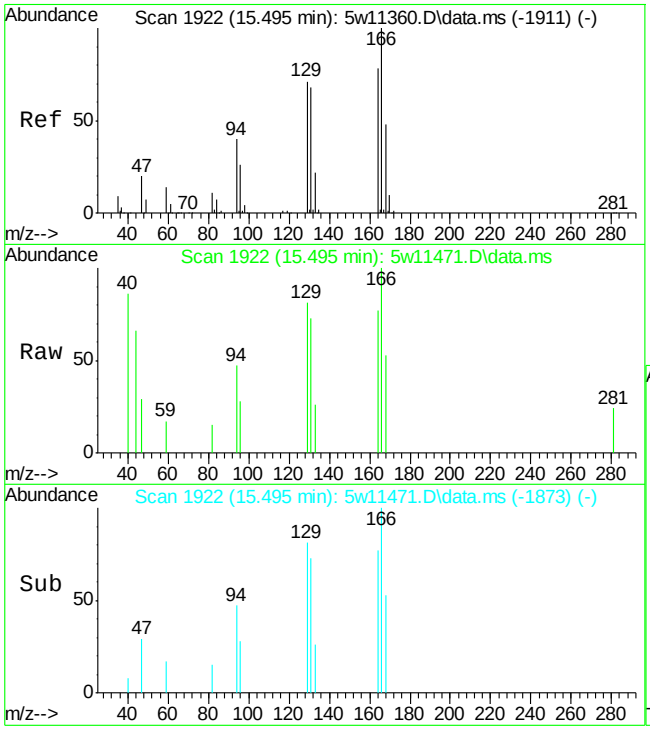


#66
Toluene
Concen: 1.39 ppb(v)
RT: 13.966 min Scan# 1672
Delta R.T. -0.031 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion: 91 Resp: 54194

Ion	Ratio	Lower	Upper
91	100		
92	57.0	40.3	74.9
65	13.4	7.6	14.0

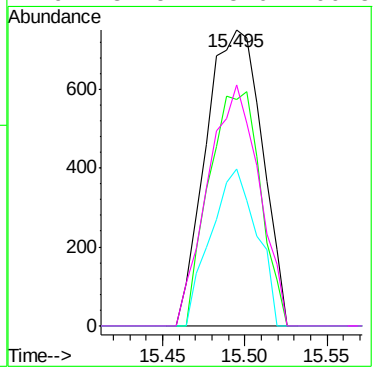




#71
Tetrachloroethene
Concen: 0.09 ppb(v)
RT: 15.495 min Scan# 1922
Delta R.T. -0.031 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion:166 Resp: 1776

Ion	Ratio	Lower	Upper
166	100		
164	76.7	54.3	100.9
168	52.9	33.9	62.9
129	81.5	48.6	90.3



7.1.4

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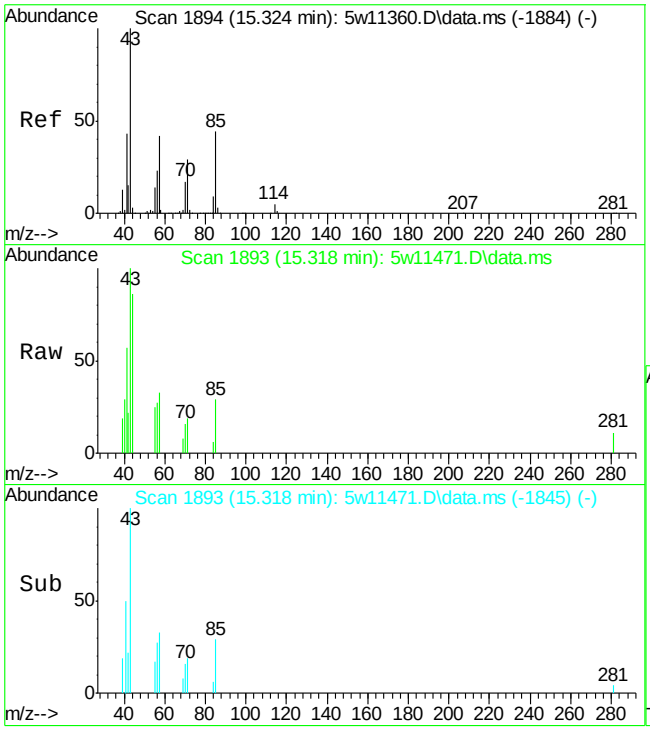
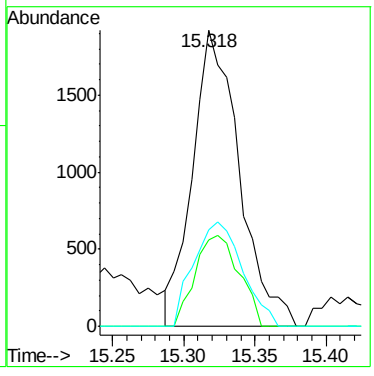
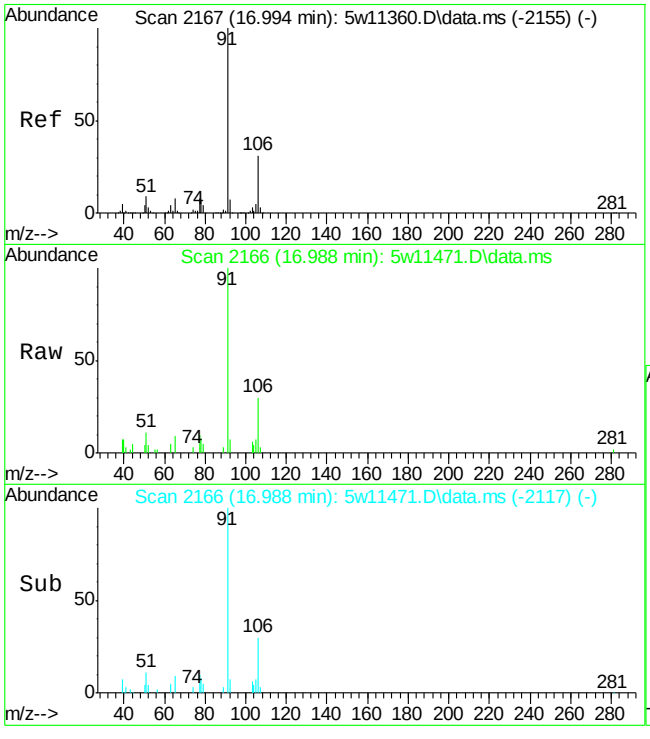


#73
Octane
Concen: 0.18 ppb(v)
RT: 15.318 min Scan# 1893
Delta R.T. -0.037 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion: 43 Resp: 4406

Ion	Ratio	Lower	Upper
43	100		
85	29.2	31.6	58.8#
57	32.6	29.5	54.7

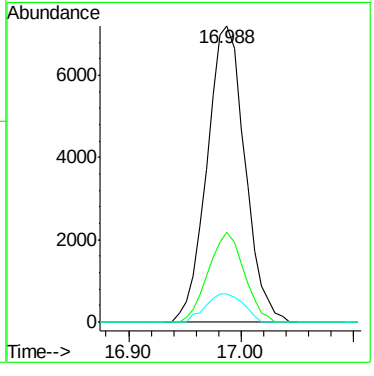




#77
Ethylbenzene
Concen: 0.33 ppb(v)
RT: 16.988 min Scan# 2166
Delta R.T. -0.031 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion: 91 Resp: 16799

Ion	Ratio	Lower	Upper
91	100		
106	30.4	21.9	40.7
77	9.5	6.0	11.2



7.1.4

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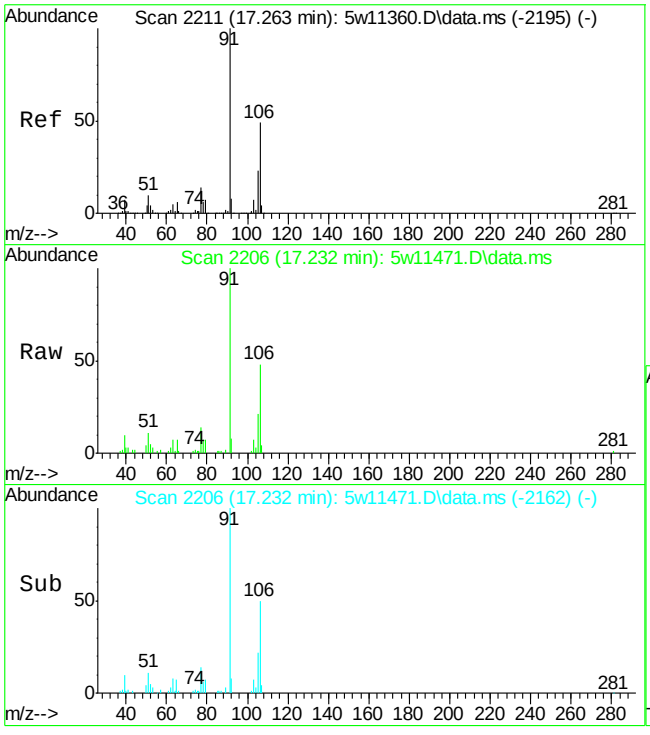
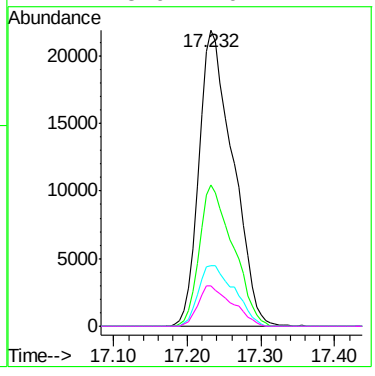
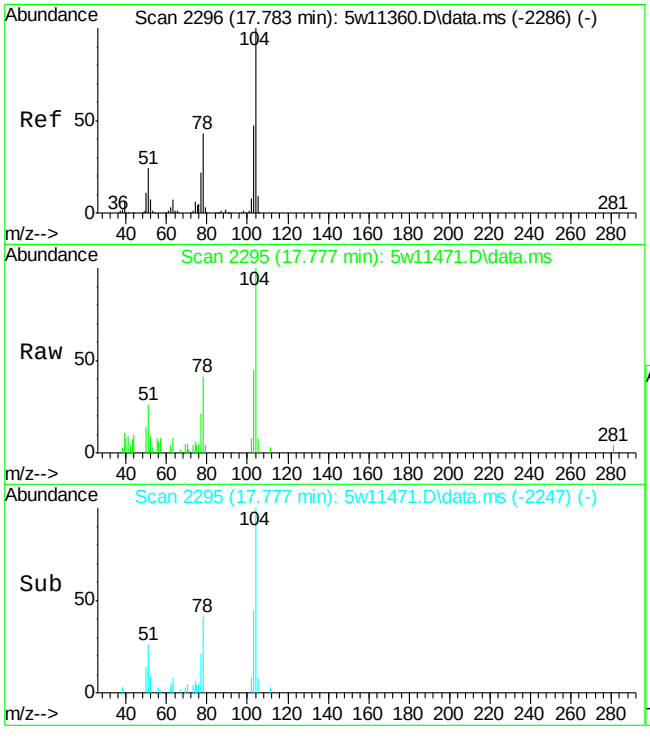


#78
m,p-Xylene
Concen: 1.66 ppb(v)
RT: 17.232 min Scan# 2206
Delta R.T. -0.061 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion: 91 Resp: 68808

Ion	Ratio	Lower	Upper
91	100		
106	47.8	35.1	65.1
105	20.5	16.0	29.8
77	13.9	9.4	17.4

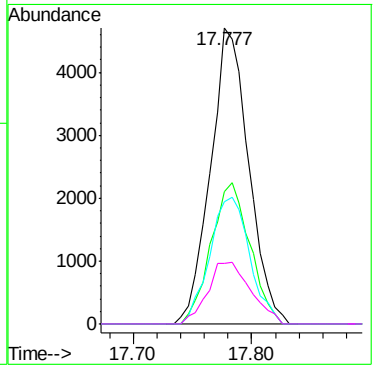


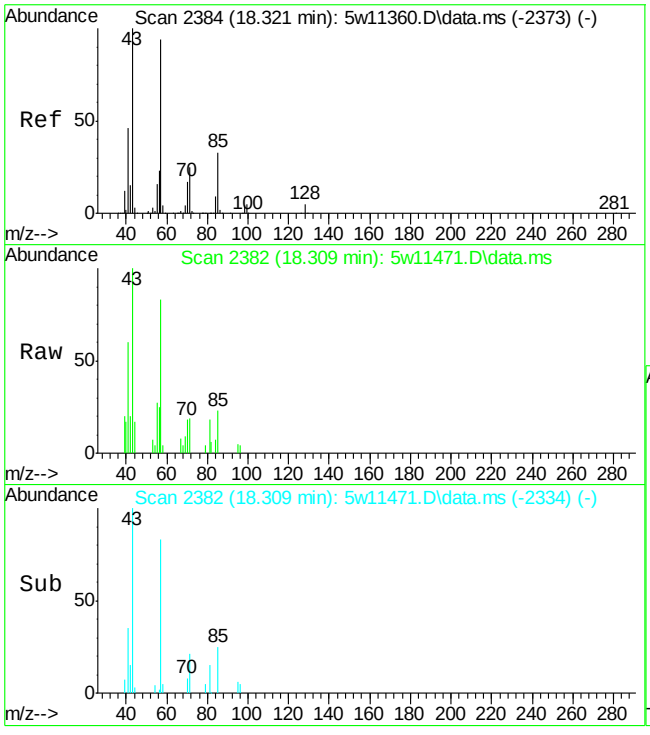


#79
Styrene
Concen: 0.37 ppb(v)
RT: 17.777 min Scan# 2295
Delta R.T. -0.037 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion:104 Resp: 10577

Ion	Ratio	Lower	Upper
104	100		
103	44.6	33.2	61.6
78	41.4	29.1	54.1
77	20.6	14.7	27.3

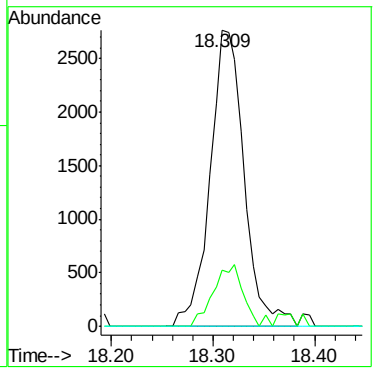


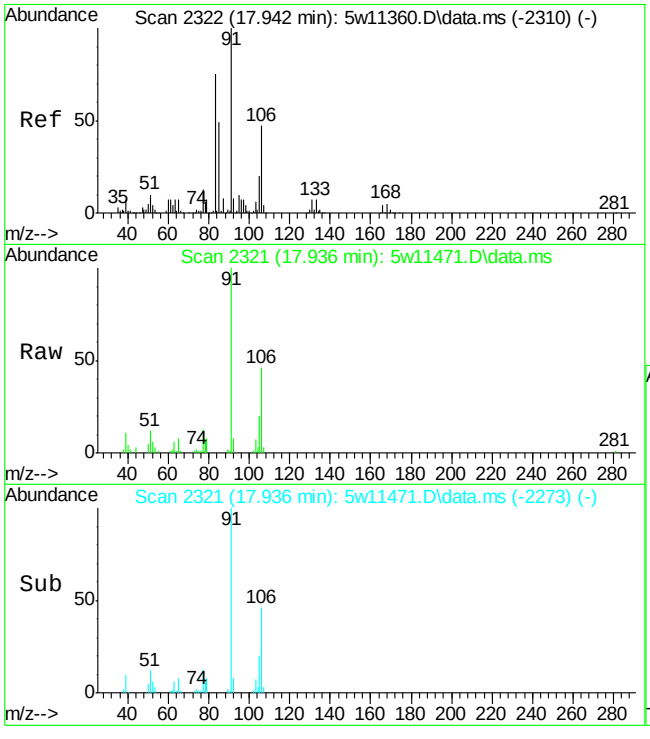


#80
Nonane
Concen: 0.25 ppb(v)
RT: 18.309 min Scan# 2382
Delta R.T. -0.037 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion: 43 Resp: 6442

Ion	Ratio	Lower	Upper
43	100		
71	18.9	18.4	34.2
128	0.0	3.6	6.8#

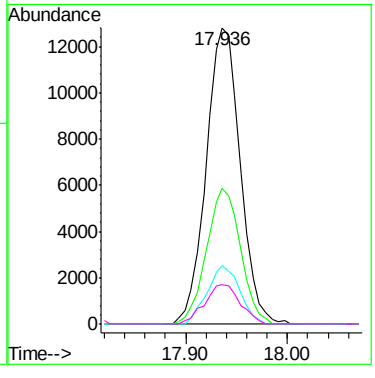


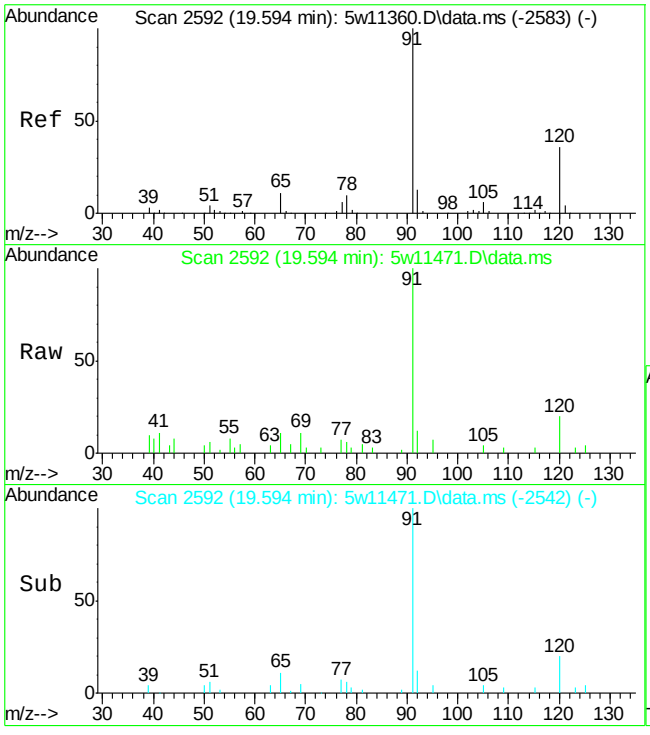


#81
o-Xylene
Concen: 0.74 ppb(v)
RT: 17.936 min Scan# 2321
Delta R.T. -0.037 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion: 91 Resp: 29831

Ion	Ratio	Lower	Upper
91	100		
106	45.8	33.5	62.1
105	19.8	13.4	24.8
77	13.3	8.8	16.3

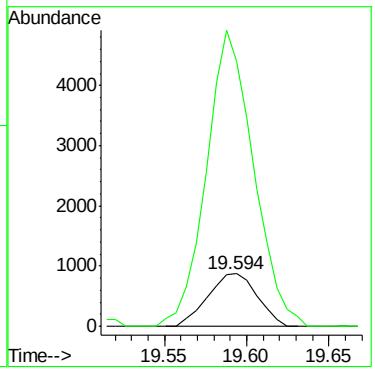


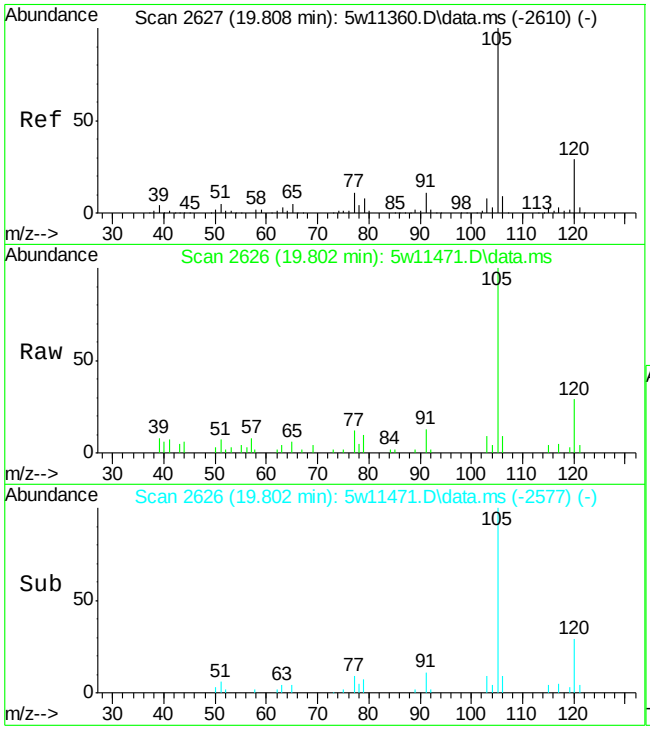


#88
n-Propylbenzene
Concen: 0.13 ppb(v)
RT: 19.594 min Scan# 2592
Delta R.T. -0.024 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion:120 Resp: 1804

Ion	Ratio	Lower	Upper
120	100		
91	502.9	323.0	599.8

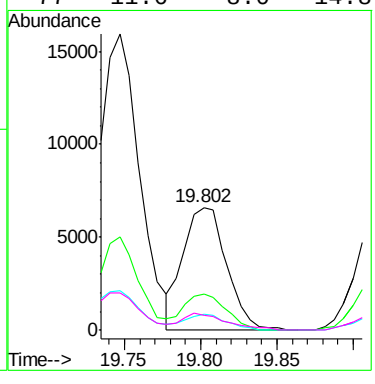


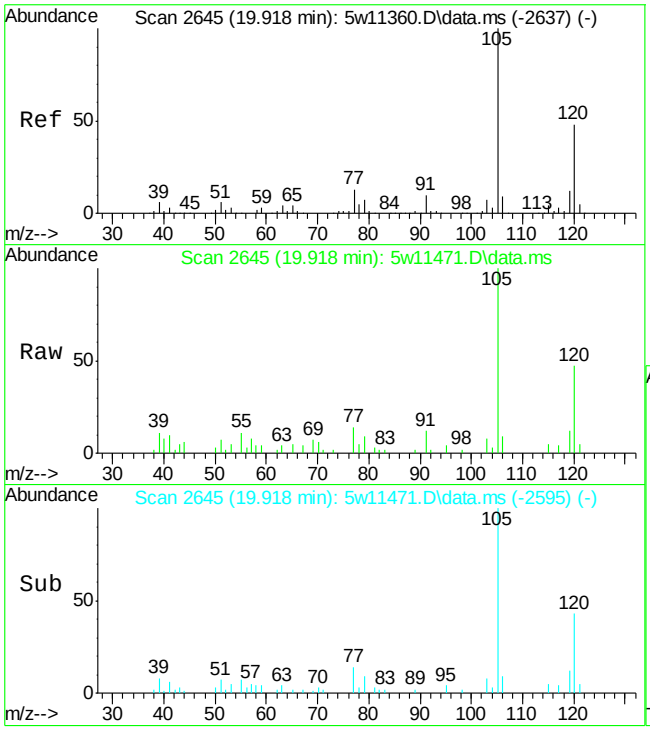


#90
4-Ethyltoluene
Concen: 0.24 ppb(v)
RT: 19.802 min Scan# 2626
Delta R.T. -0.031 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion:105 Resp: 13067

Ion	Ratio	Lower	Upper
105	100		
120	29.4	20.6	38.2
91	13.1	7.6	14.0
77	11.6	8.0	14.8

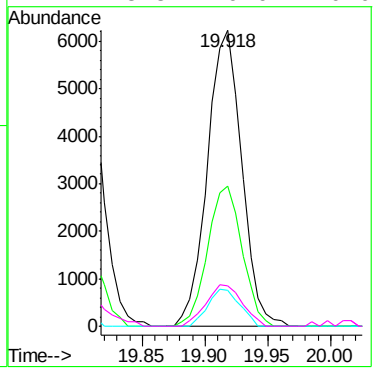


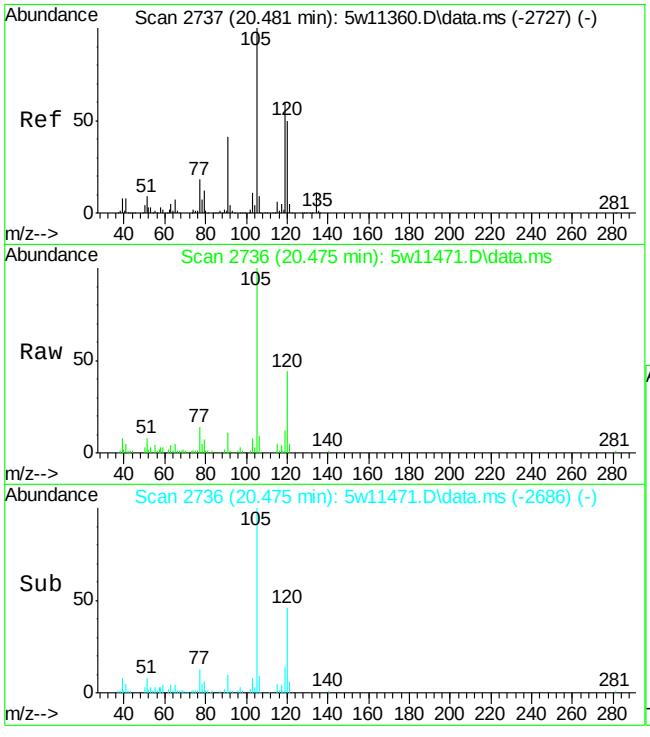


#91
1,3,5-Trimethylbenzene
Concen: 0.26 ppb(v)
RT: 19.918 min Scan# 2645
Delta R.T. -0.024 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion:105 Resp: 11853

Ion	Ratio	Lower	Upper
105	100		
120	47.5	34.2	63.4
119	12.3	8.8	16.4
77	13.8	9.0	16.6

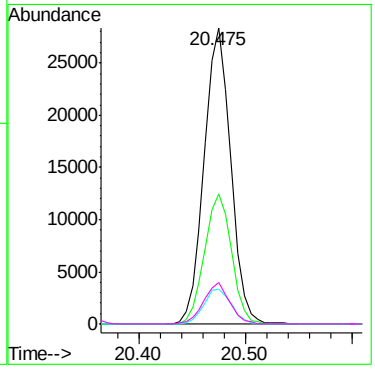




#94
1,2,4-Trimethylbenzene
Concen: 1.07 ppb(v)
RT: 20.475 min Scan# 2736
Delta R.T. -0.024 min
Lab File: 5w11471.D
Acq: 9 May 2015 7:35 pm

Tgt Ion:105 Resp: 48811

Ion	Ratio	Lower	Upper
105	100		
120	44.1	35.0	65.0
119	11.7	45.2	84.0#
77	13.9	13.0	24.2



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 05/12/15 12:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11440.D
Acq On : 8 May 2015 5:53 pm
Operator : mikel1
Sample : JB94203-3
Misc : MS84855,v5w449,100,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 12 09:03:58 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

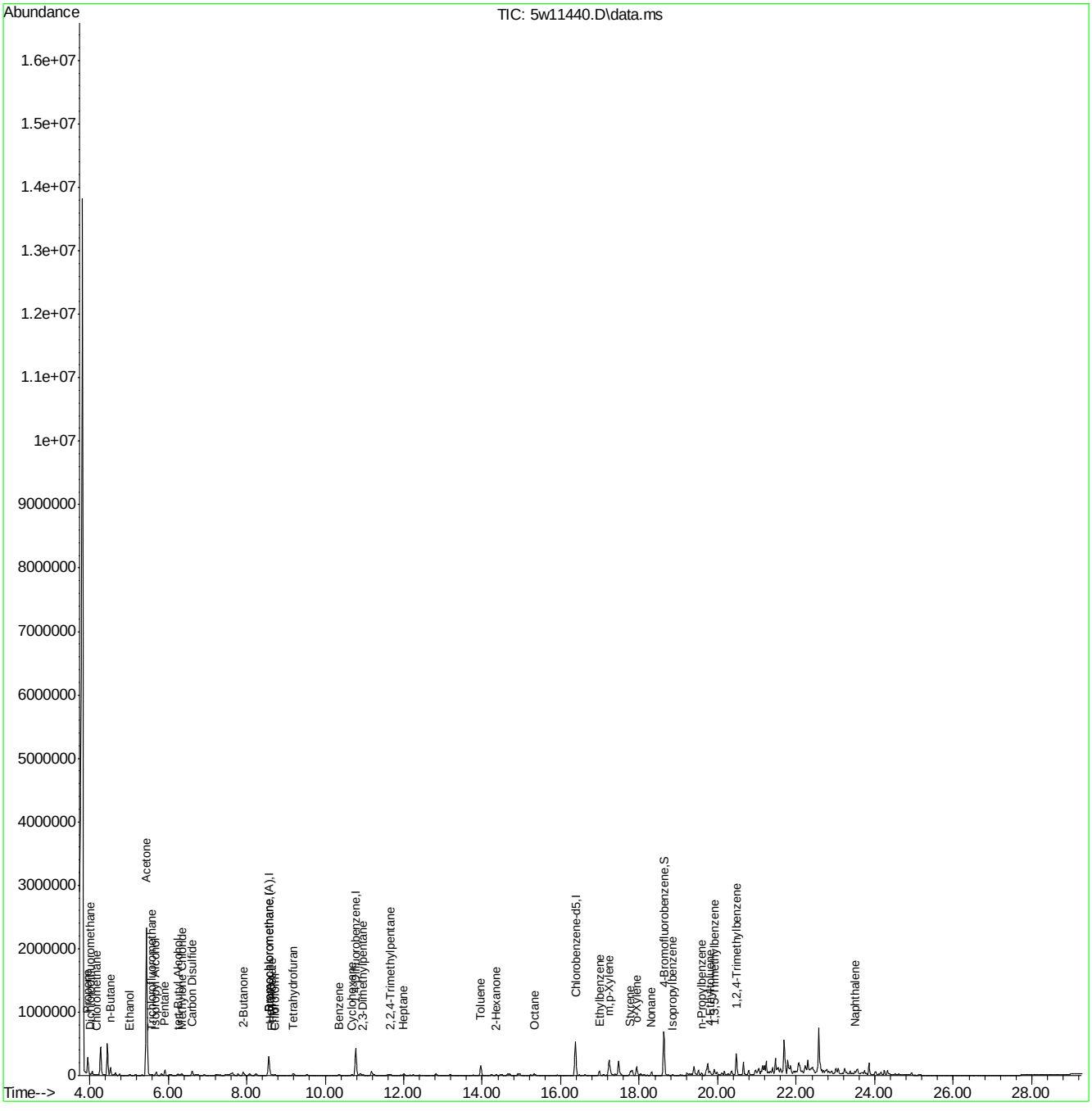
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.564	130	123720	10.00	ppb(v	-0.01
53) 1,4-Difluorobenzene	10.778	114	444011	10.00	ppb(v	-0.02
75) Chlorobenzene-d5	16.376	82	234879	10.00	ppb(v	-0.03
106) Bromochloromethane (A)	8.564	130	123720	10.00	ppb(v	-0.01
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.627	95	318706	10.40	ppb(v	-0.04
Spiked Amount 10.000	Range 65 - 128		Recovery = 104.00%			
Target Compounds						Qvalue
5) Propene	3.951	41	148272	16.66	ppb(v	96
6) Dichlorodifluoromethane	4.012	85	5412	0.17	ppb(v	99
8) Chloromethane	4.165	50	995	0.10	ppb(v	99
12) n-Butane	4.532	58	13410	7.58	ppb(v#	93
20) Trichlorofluoromethane	5.584	101	3143	0.10	ppb(v	93
21) Acetone	5.450	58	998760	172.28	ppb(v	98
22) Pentane	5.915	57	9511	3.20	ppb(v	97
25) Isopropyl Alcohol	5.676	45	12869	0.56	ppb(v#	79
28) Methylene Chloride	6.343	84	7483	0.65	ppb(v	94
29) Carbon Disulfide	6.612	76	114737	3.13	ppb(v	99
30) Ethanol	5.009	45	12119	2.07	ppb(v	99
34) tert-Butyl Alcohol	6.257	59	17830	0.62	ppb(v#	85
38) 2-Butanone	7.915	72	17436	2.71	ppb(v	97
39) Hexane	8.588	57	22588	1.09	ppb(v#	37
42) Ethyl Acetate	8.643	61	837	0.19	ppb(v#	53
44) Chloroform	8.710	83	9055	0.33	ppb(v	98
46) Tetrahydrofuran	9.182	72	8900	1.42	ppb(v	87
49) Benzene	10.356	78	15077	0.37	ppb(v	99
51) Cyclohexane	10.674	56	7726	0.40	ppb(v	94
52) 2,3-Dimethylpentane	10.968	71	1802m	0.22	ppb(v	
54) 2,2,4-Trimethylpentane	11.665	57	17170	0.29	ppb(v#	67
55) Heptane	11.996	71	7455	0.63	ppb(v	98
66) Toluene	13.966	91	156251	3.36	ppb(v	99
68) 2-Hexanone	14.357	58	4790	0.27	ppb(v	87
73) Octane	15.324	43	15931	0.55	ppb(v	96
77) Ethylbenzene	16.988	91	66853	1.17	ppb(v	99
78) m,p-Xylene	17.232	91	262074	5.72	ppb(v	97
79) Styrene	17.777	104	41477	1.31	ppb(v	99
80) Nonane	18.315	43	29048	1.00	ppb(v	94
81) o-Xylene	17.936	91	117885	2.64	ppb(v	99
85) Isopropylbenzene	18.841	105	6058	0.10	ppb(v	100
88) n-Propylbenzene	19.588	120	7665	0.49	ppb(v	89
90) 4-Ethyltoluene	19.802	105	52410	0.88	ppb(v	98
91) 1,3,5-Trimethylbenzene	19.918	105	53661	1.07	ppb(v	97
94) 1,2,4-Trimethylbenzene	20.475	105	205107	4.08	ppb(v#	63
104) Naphthalene	23.491	128	23978	0.59	ppb(v	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

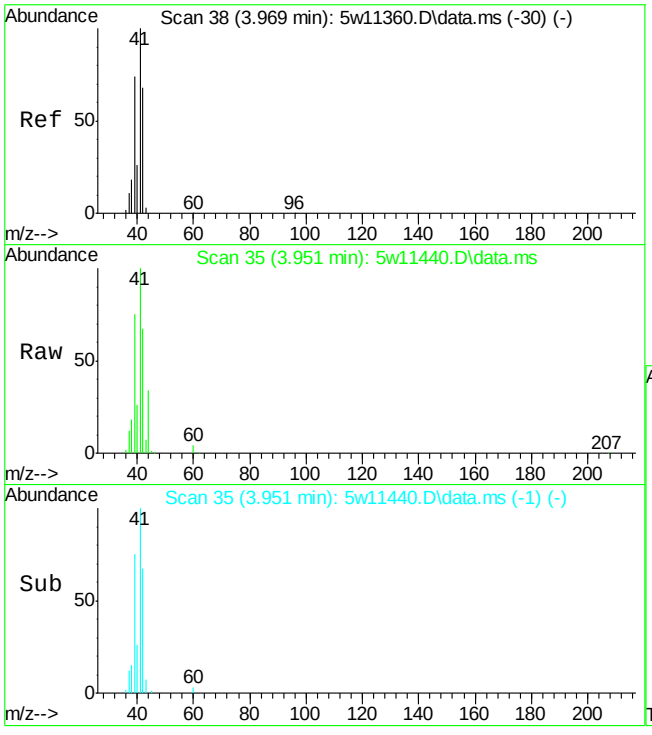
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11440.D
Acq On : 8 May 2015 5:53 pm
Operator : mikel1
Sample : JB94203-3
Misc : MS84855,v5w449,100,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 12 09:03:58 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration



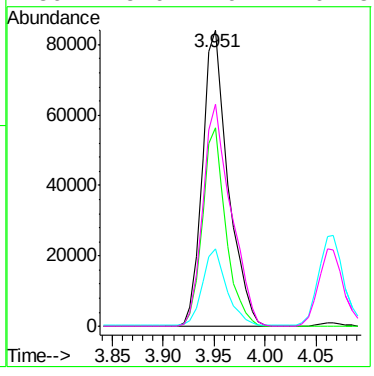
m5w419.M Tue May 12 09:43:14 2015 GCMS5W Page: 2

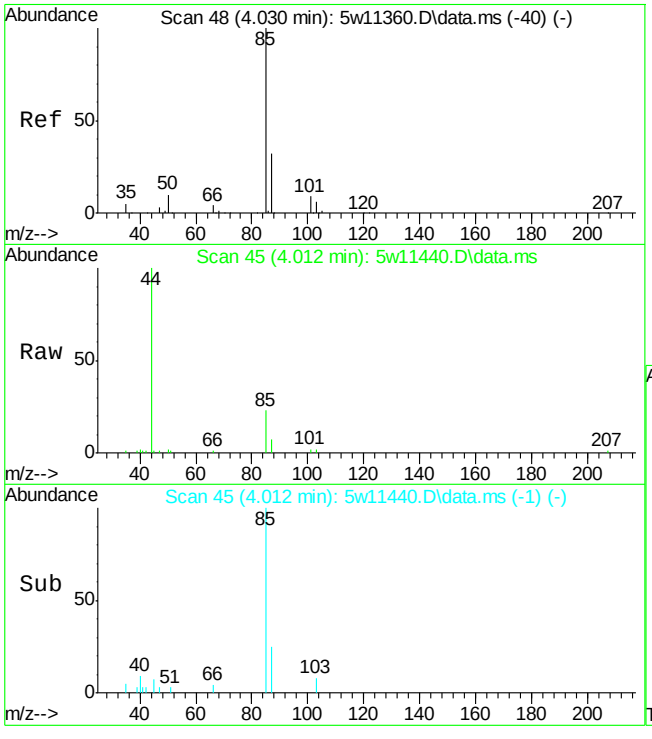


#5
Propene
Concen: 16.66 ppb(v)
RT: 3.951 min Scan# 35
Delta R.T. -0.018 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion: 41 Resp: 148272

Ion	Ratio	Lower	Upper
41	100		
42	67.1	45.0	83.6
40	26.3	17.9	33.3
39	75.0	49.7	92.3

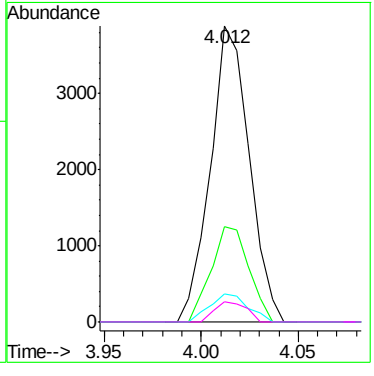


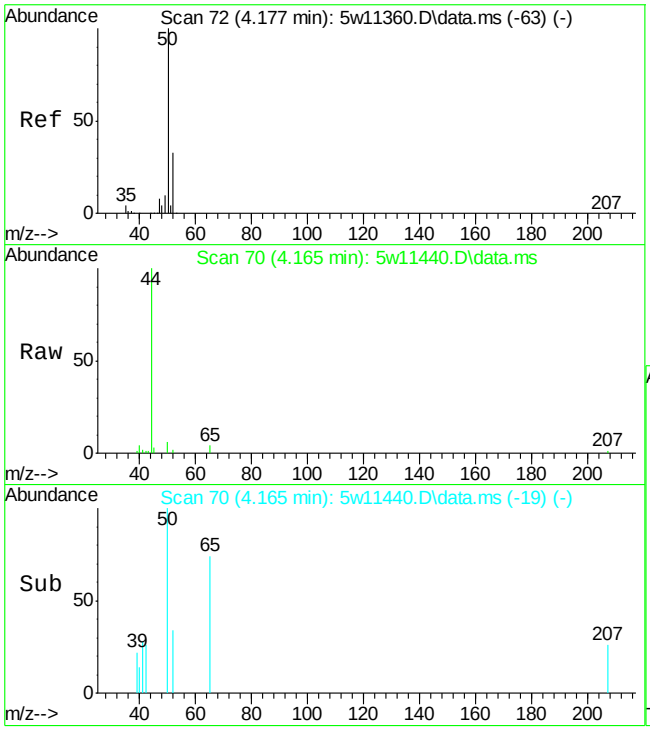


#6
Dichlorodifluoromethane
Concen: 0.17 ppb(v)
RT: 4.012 min Scan# 45
Delta R.T. -0.024 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion: 85 Resp: 5412

Ion	Ratio	Lower	Upper
85	100		
87	32.2	22.7	42.1
101	9.4	6.0	11.2
103	6.8	4.1	7.5

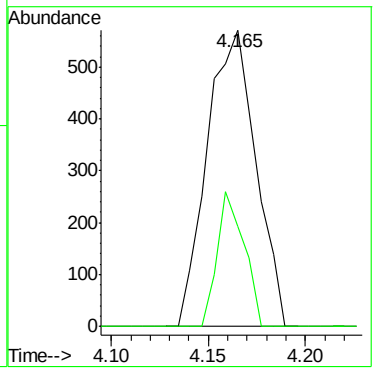


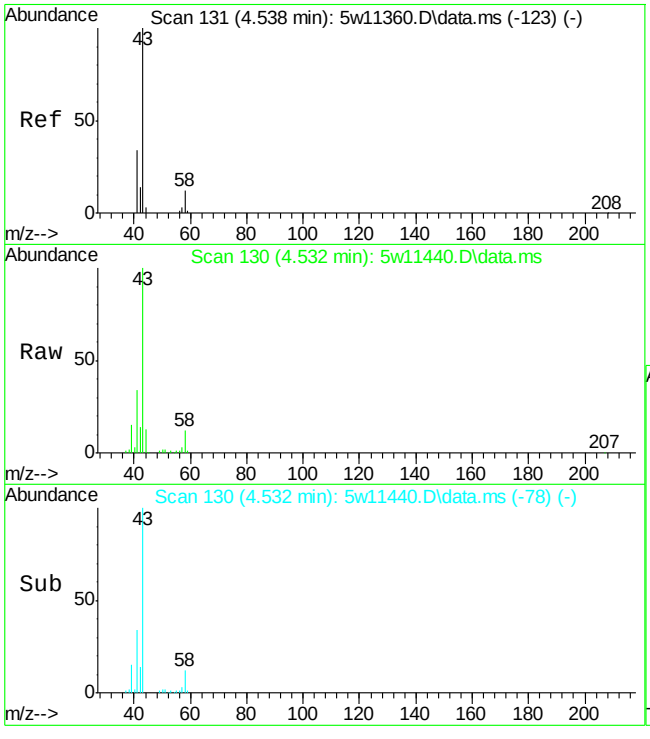


#8
Chloromethane
Concen: 0.10 ppb(v)
RT: 4.165 min Scan# 70
Delta R.T. -0.018 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion: 50 Resp: 995

Ion	Ratio	Lower	Upper
50	100		
52	33.8	23.2	43.0

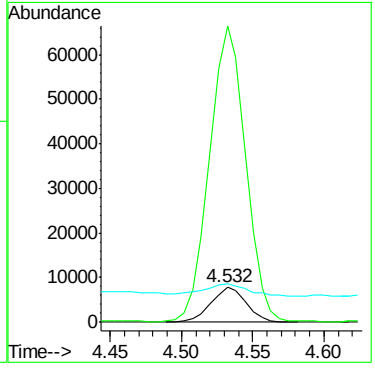


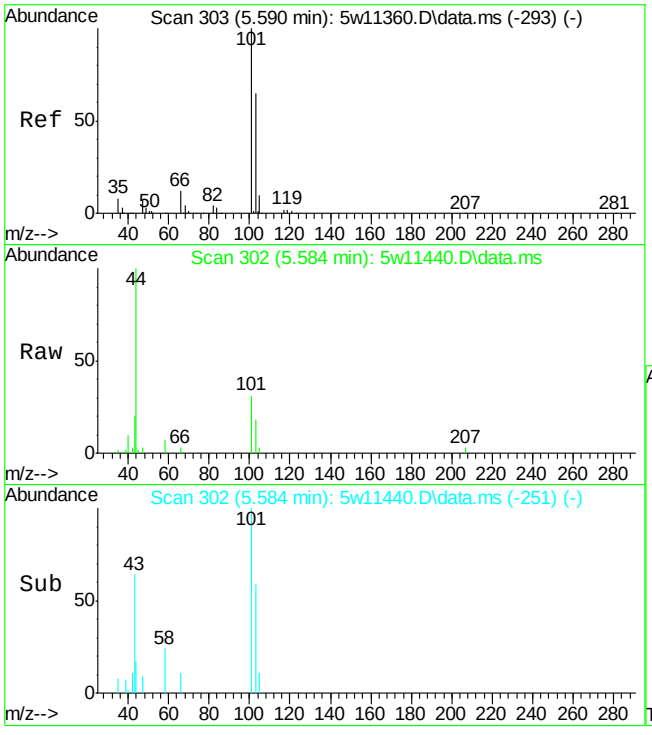


#12
n-Butane
Concen: 7.58 ppb(v)
RT: 4.532 min Scan# 130
Delta R.T. -0.012 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion: 58 Resp: 13410

Ion	Ratio	Lower	Upper
58	100		
43	840.5	583.8	1084.2
44	108.7	25.6	47.6#

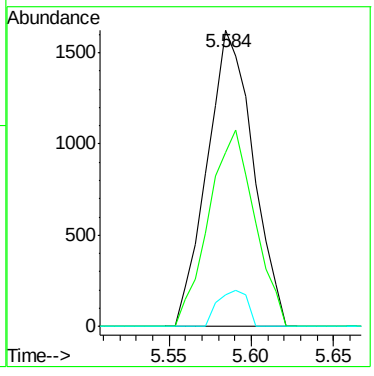


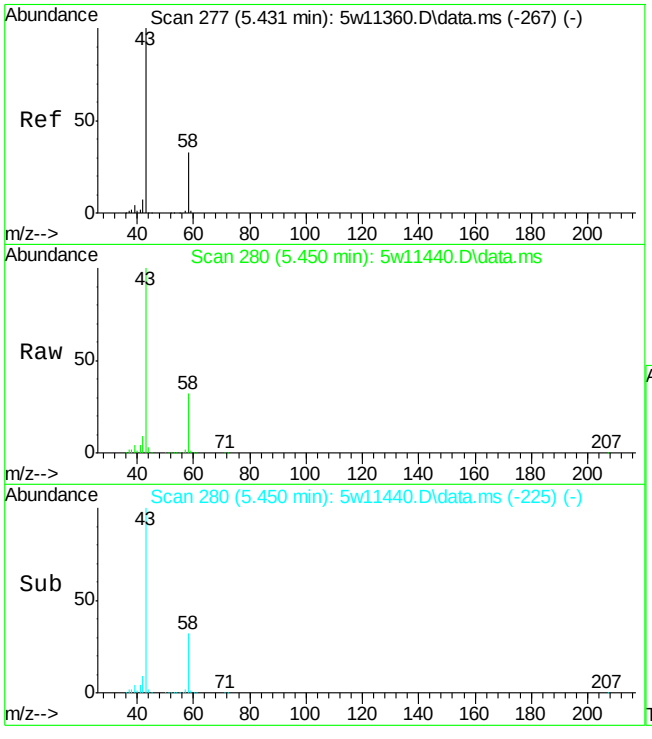


#20
Trichlorofluoromethane
Concen: 0.10 ppb(v)
RT: 5.584 min Scan# 302
Delta R.T. -0.018 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion:101 Resp: 3143

Ion	Ratio	Lower	Upper
101	100		
103	58.9	45.5	84.5
105	10.7	7.6	14.0

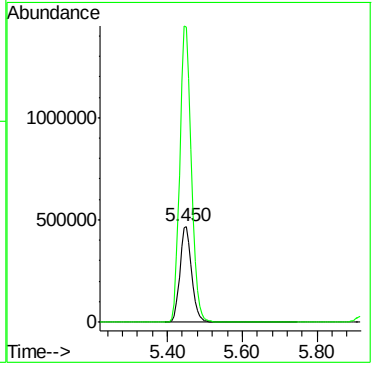


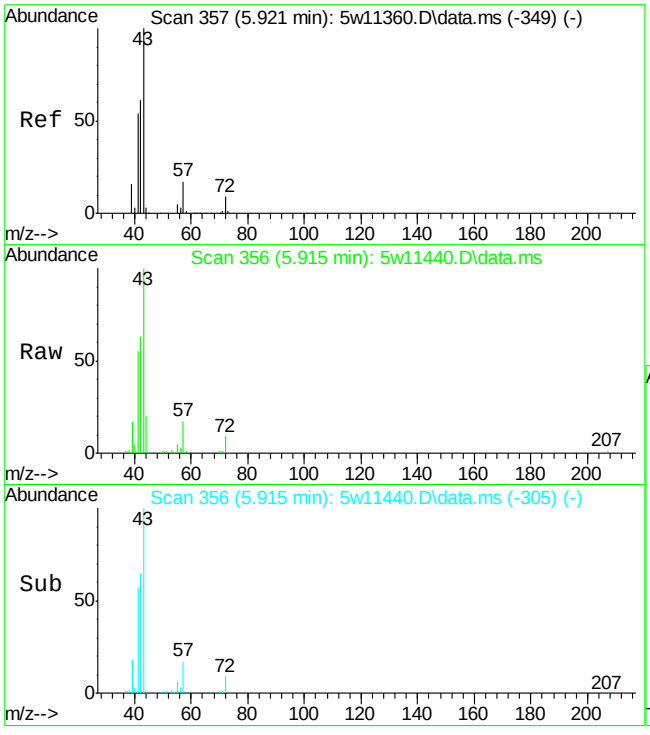


#21
Acetone
Concen: 172.28 ppb(v)
RT: 5.450 min Scan# 280
Delta R.T. 0.006 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion: 58 Resp: 998760

Ion	Ratio	Lower	Upper
58	100		
43	308.0	217.8	404.6

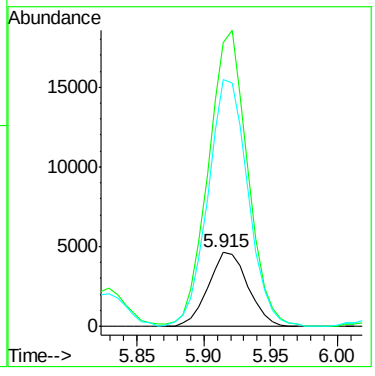


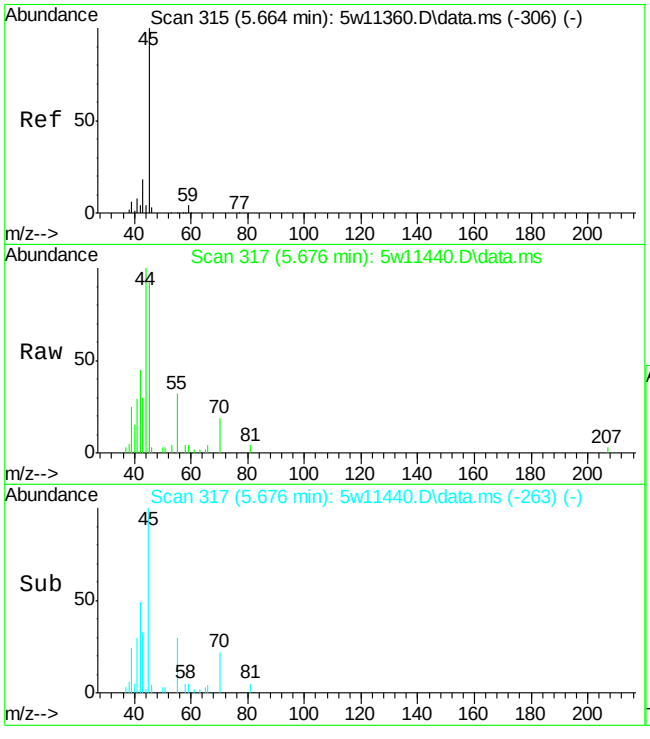


#22
Pentane
Concen: 3.20 ppb(v)
RT: 5.915 min Scan# 356
Delta R.T. -0.018 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion: 57 Resp: 9511

Ion	Ratio	Lower	Upper
57	100		
42	381.0	262.5	487.5
41	330.7	225.7	419.1

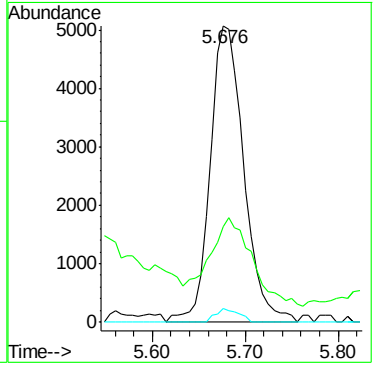


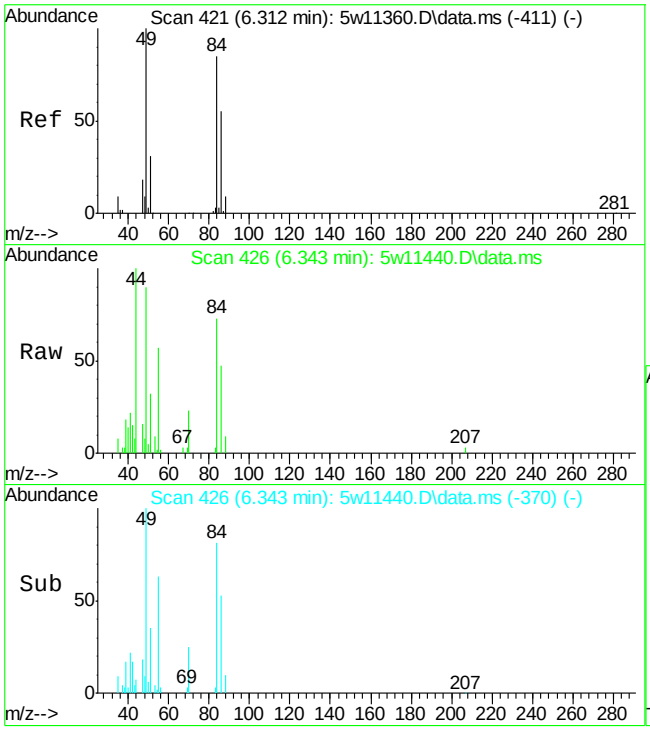


#25
Isopropyl Alcohol
Concen: 0.56 ppb(v)
RT: 5.676 min Scan# 317
Delta R.T. 0.000 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion: 45 Resp: 12869

Ion	Ratio	Lower	Upper
45	100		
43	32.1	14.0	26.0#
59	4.4	3.5	6.5

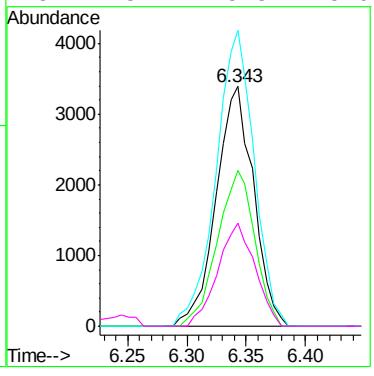


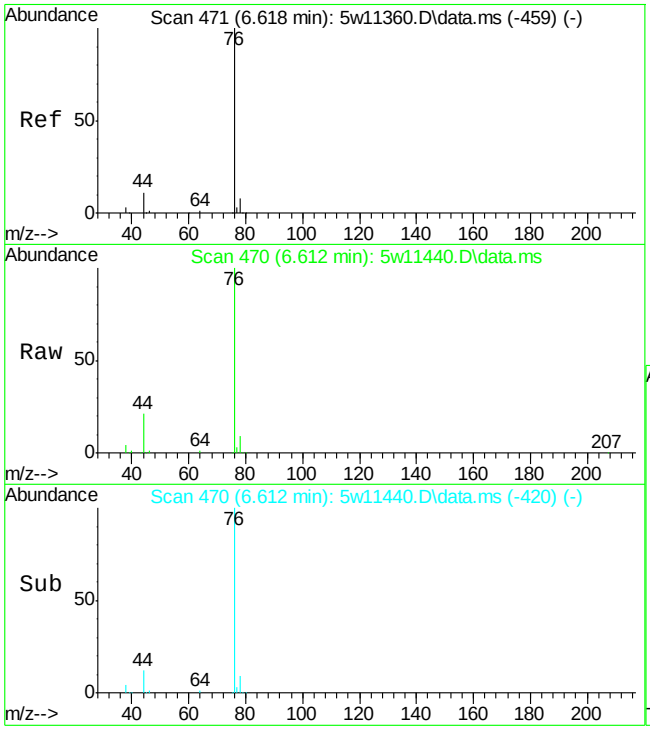


#28
Methylene Chloride
Concen: 0.65 ppb(v)
RT: 6.343 min Scan# 426
Delta R.T. 0.012 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion: 84 Resp: 7483

Ion	Ratio	Lower	Upper
84	100		
86	65.0	44.7	83.1
49	123.5	80.9	150.3
51	43.2	25.8	48.0

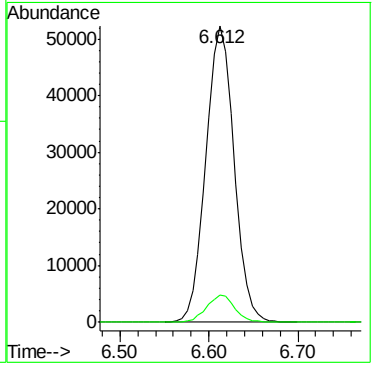


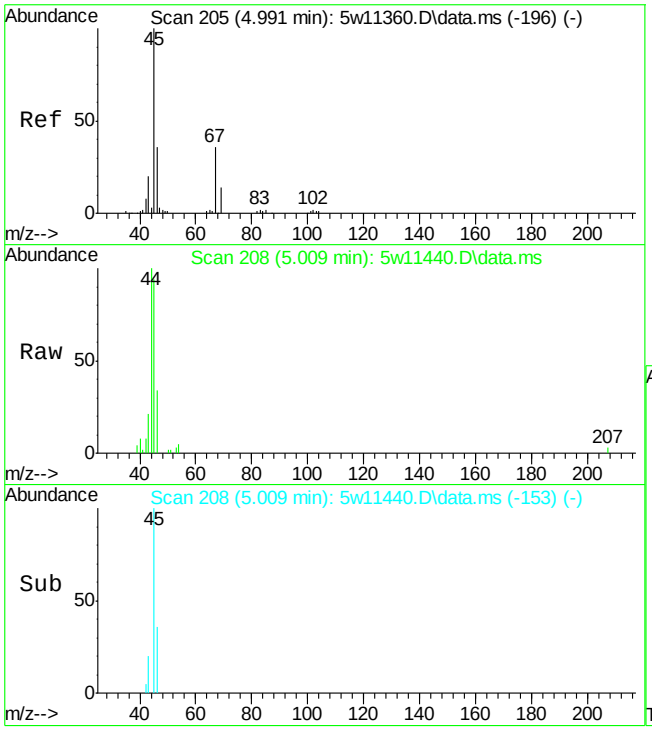


#29
Carbon Disulfide
Concen: 3.13 ppb(v)
RT: 6.612 min Scan# 470
Delta R.T. -0.025 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion: 76 Resp: 114737

Ion	Ratio	Lower	Upper
76	100		
78	9.1	6.6	12.4

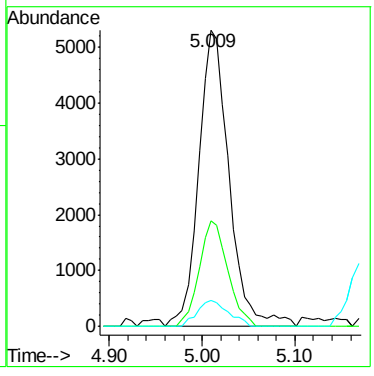


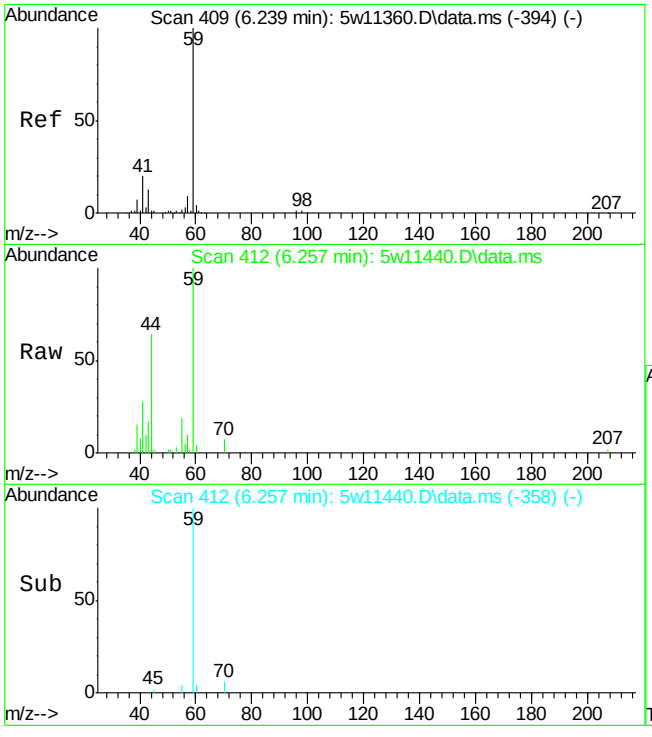


#30
Ethanol
Concen: 2.07 ppb(v)
RT: 5.009 min Scan# 208
Delta R.T. 0.006 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion: 45 Resp: 12119

Ion	Ratio	Lower	Upper
45	100		
46	35.6	24.6	45.6
42	8.7	5.5	10.1

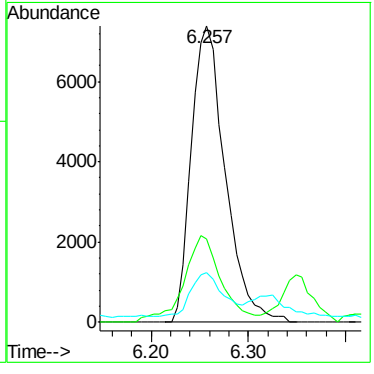


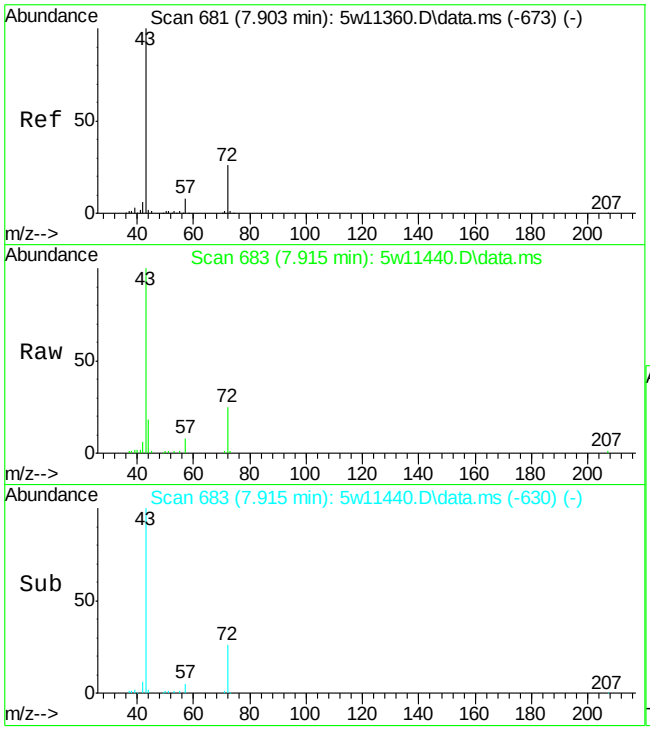


#34
tert-Butyl Alcohol
Concen: 0.62 ppb(v)
RT: 6.257 min Scan# 412
Delta R.T. 0.000 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion: 59 Resp: 17830

Ion	Ratio	Lower	Upper
59	100		
41	28.0	13.4	24.8#
43	16.8	9.3	17.3

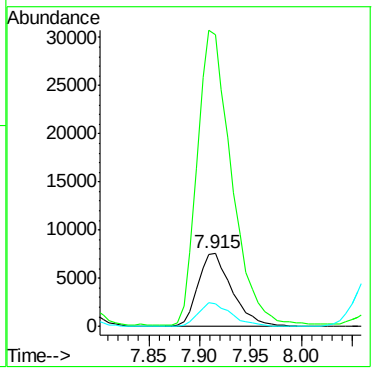


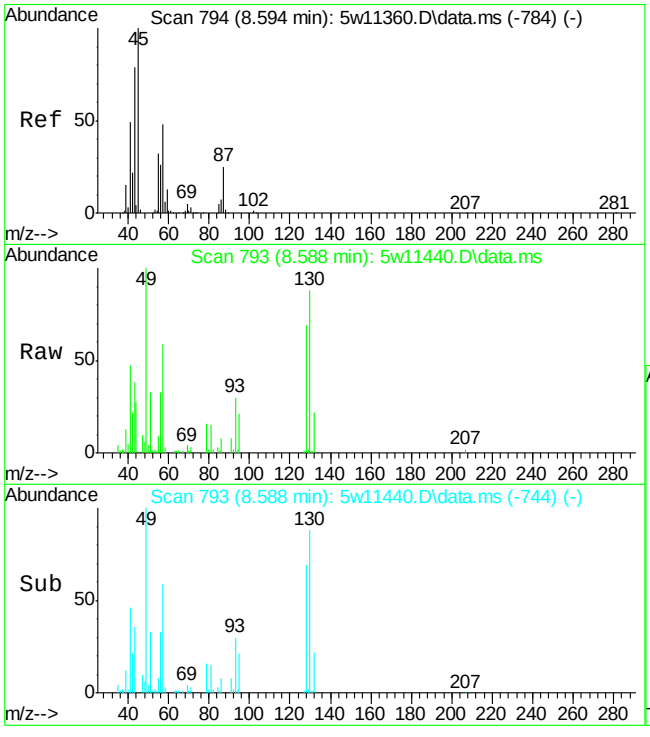


#38
2-Butanone
Concen: 2.71 ppb(v)
RT: 7.915 min Scan# 683
Delta R.T. -0.006 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion: 72 Resp: 17436

Ion	Ratio	Lower	Upper
72	100		
43	397.8	274.1	508.9
57	30.5	22.1	41.1

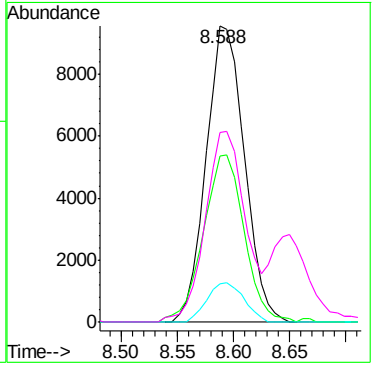


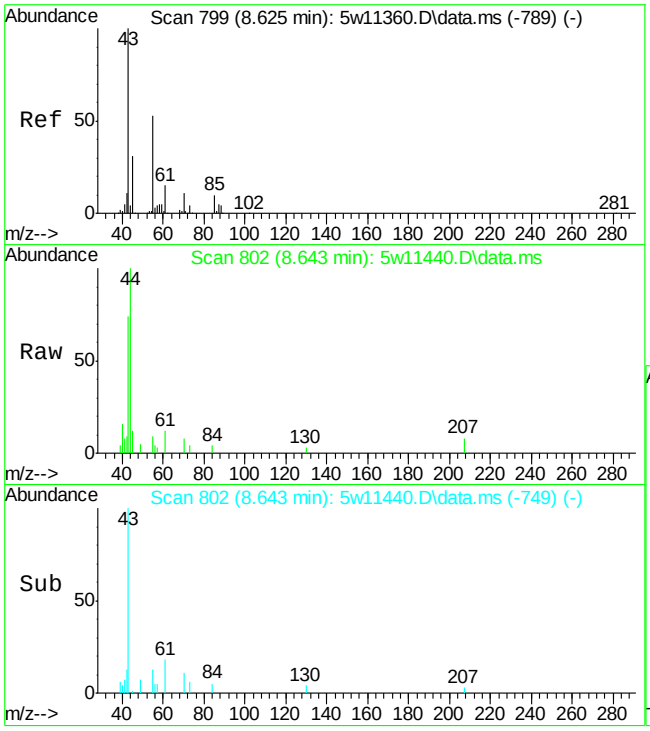


#39
Hexane
Concen: 1.09 ppb(v)
RT: 8.588 min Scan# 793
Delta R.T. -0.030 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion: 57 Resp: 22588

Ion	Ratio	Lower	Upper
57	100		
56	55.9	37.4	69.4
86	12.9	10.4	19.2
43	64.2	130.8	242.8#

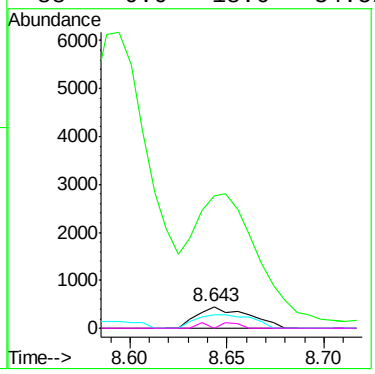


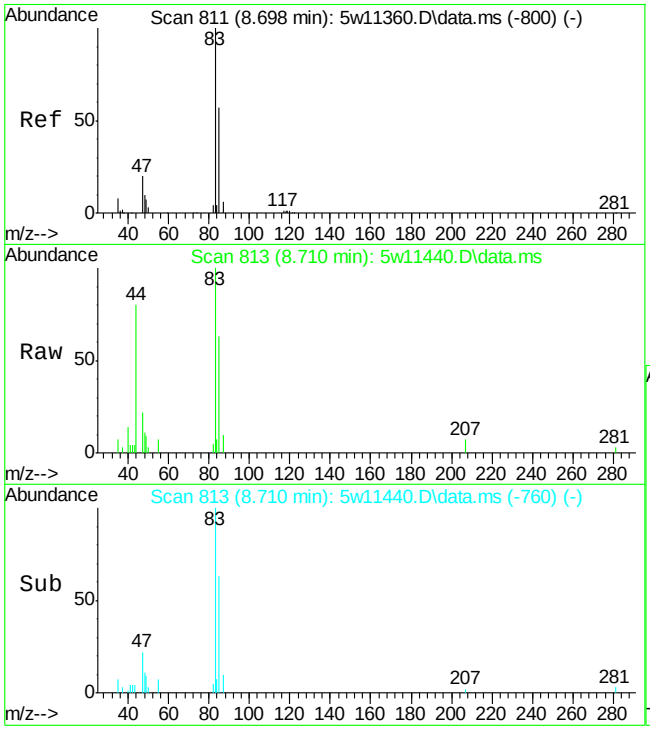


#42
Ethyl Acetate
Concen: 0.19 ppb(v)
RT: 8.643 min Scan# 802
Delta R.T. -0.006 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion: 61 Resp: 837

Ion	Ratio	Lower	Upper
61	100		
43	602.6	556.0	1032.6
70	61.9	50.3	93.3
88	0.0	18.6	34.5#

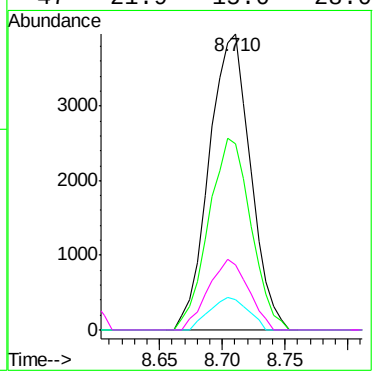


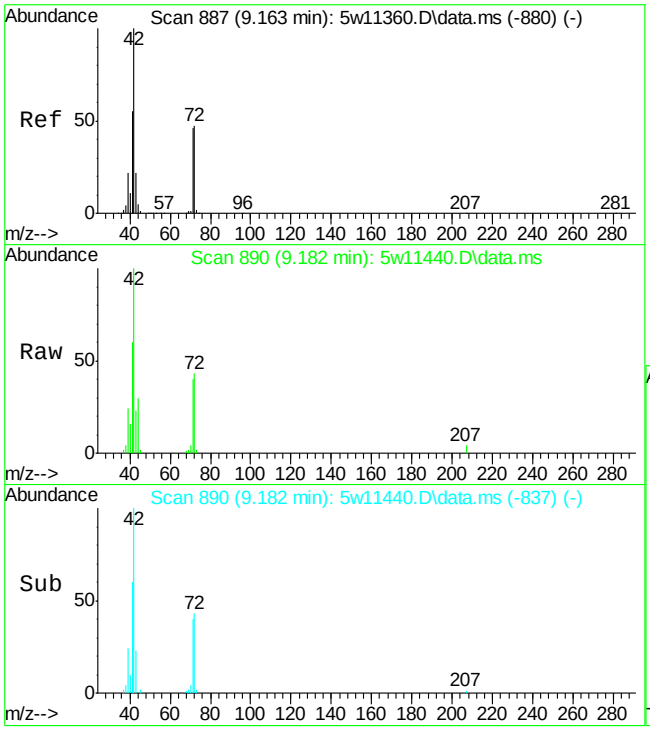


#44
Chloroform
Concen: 0.33 ppb(v)
RT: 8.710 min Scan# 813
Delta R.T. -0.006 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion: 83 Resp: 9055

Ion	Ratio	Lower	Upper
83	100		
85	62.7	45.0	83.6
87	10.3	7.3	13.5
47	21.9	15.0	28.0

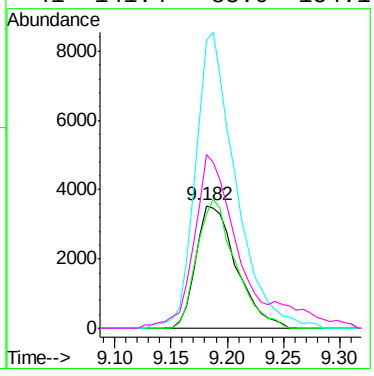


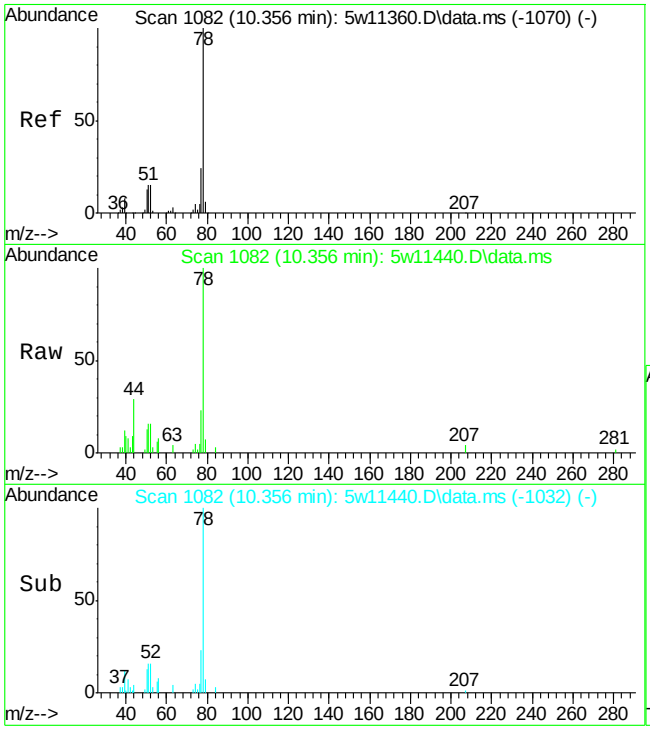


#46
Tetrahydrofuran
Concen: 1.42 ppb(v)
RT: 9.182 min Scan# 890
Delta R.T. -0.006 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion: 72 Resp: 8900

Ion	Ratio	Lower	Upper
72	100		
71	93.1	68.5	127.3
42	235.0	151.3	281.1
41	141.4	83.0	154.1

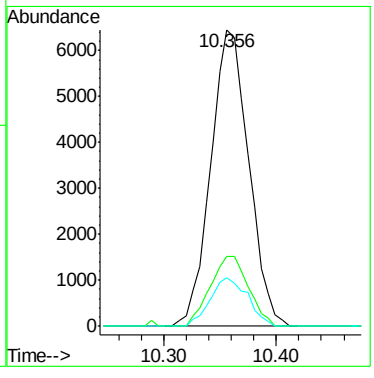


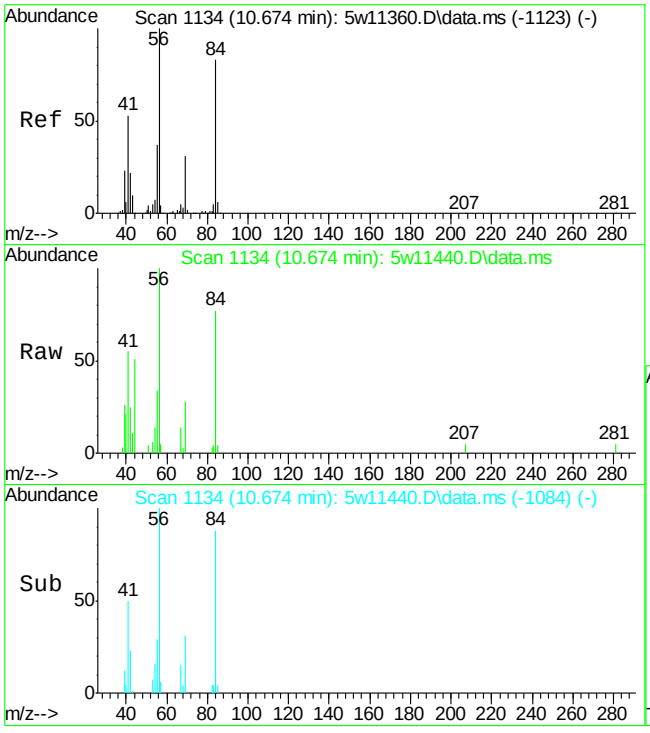


#49
Benzene
Concen: 0.37 ppb(v)
RT: 10.356 min Scan# 1082
Delta R.T. -0.024 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion: 78 Resp: 15077

Ion	Ratio	Lower	Upper
78	100		
77	23.5	16.6	30.8
51	16.3	10.6	19.6

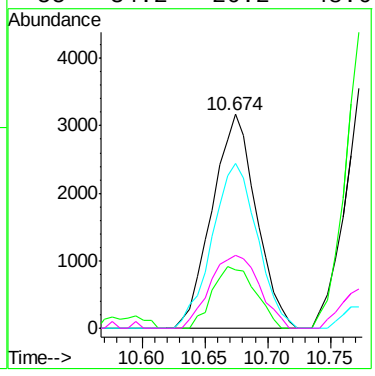


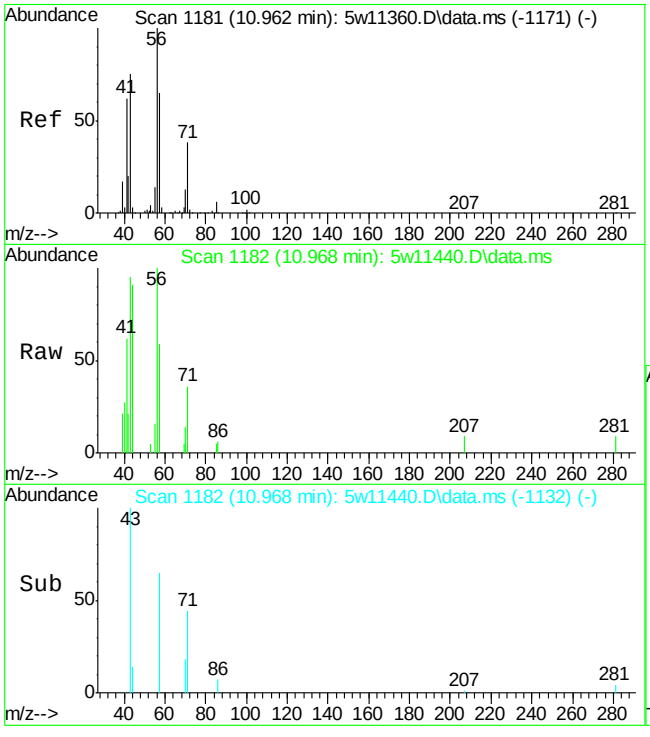


#51
Cyclohexane
Concen: 0.40 ppb(v)
RT: 10.674 min Scan# 1134
Delta R.T. -0.024 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion: 56 Resp: 7726

Ion	Ratio	Lower	Upper
56	100		
69	27.5	22.1	41.1
84	77.3	57.8	107.4
55	34.2	26.2	48.6

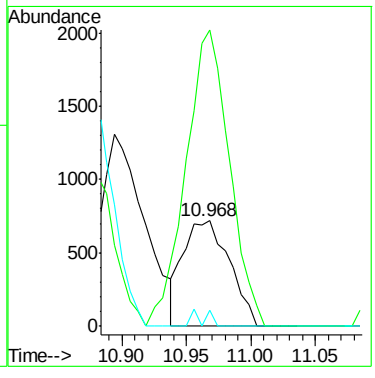


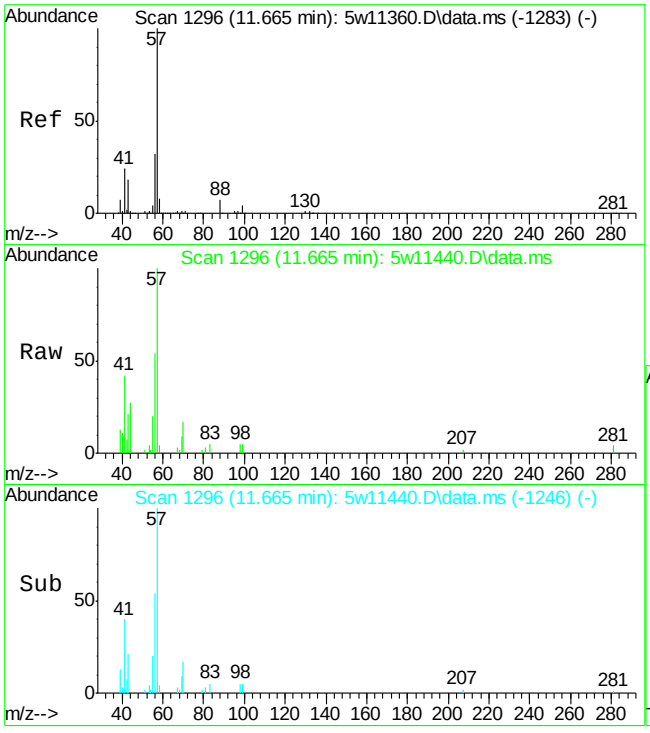


#52
2,3-Dimethylpentane
Concen: 0.22 ppb(v) m
RT: 10.968 min Scan# 1182
Delta R.T. -0.024 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion: 71 Resp: 1802

Ion	Ratio	Lower	Upper
71	100		
56	281.3	183.3	340.5
85	14.8	10.8	20.0

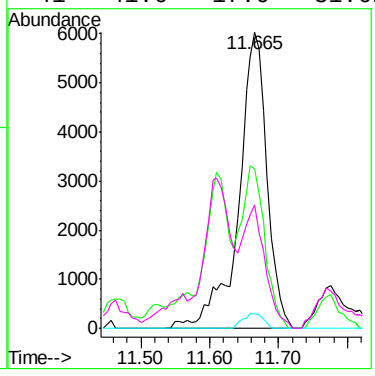


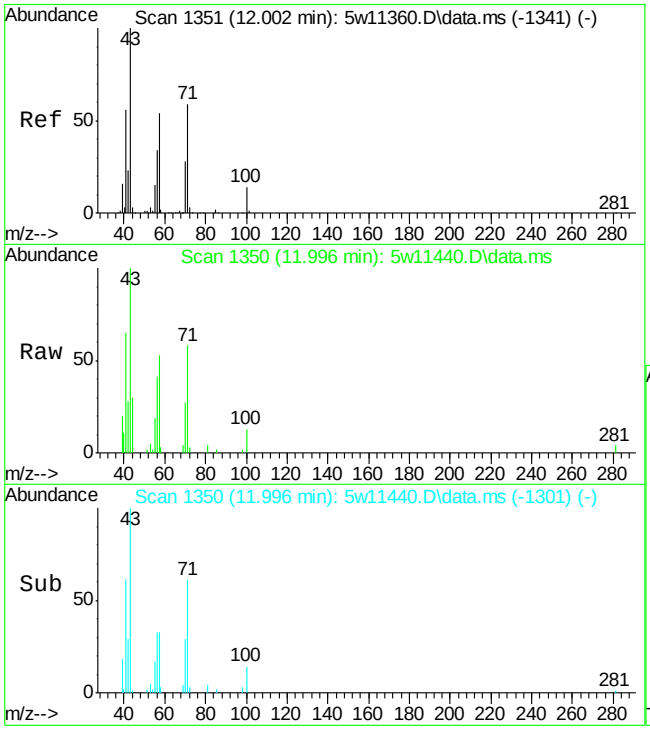


#54
2,2,4-Trimethylpentane
Concen: 0.29 ppb(v)
RT: 11.665 min Scan# 1296
Delta R.T. -0.024 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion: 57 Resp: 17170

Ion	Ratio	Lower	Upper
57	100		
56	54.0	23.2	43.0#
99	5.0	3.4	6.4
41	41.6	17.0	31.6#

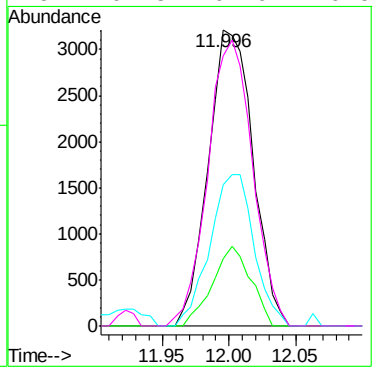


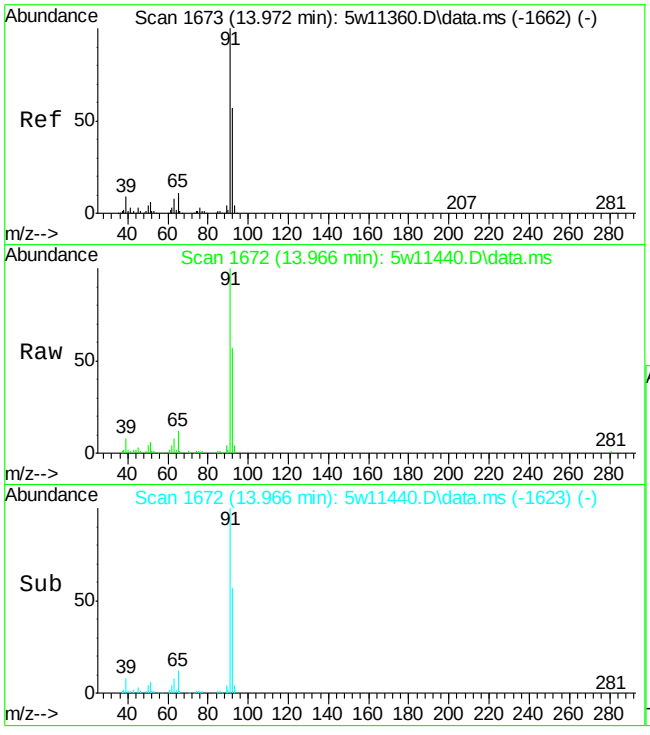


#55
Heptane
Concen: 0.63 ppb(v)
RT: 11.996 min Scan# 1350
Delta R.T. -0.030 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion: 71 Resp: 7455

Ion	Ratio	Lower	Upper
71	100		
100	22.9	18.3	33.9
70	47.6	33.5	62.1
57	91.3	64.9	120.5

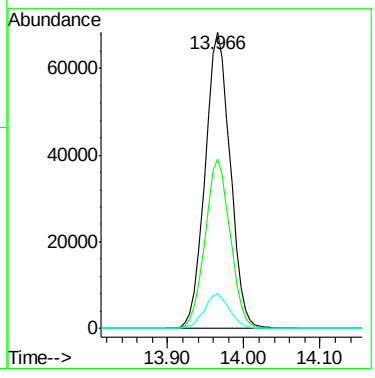


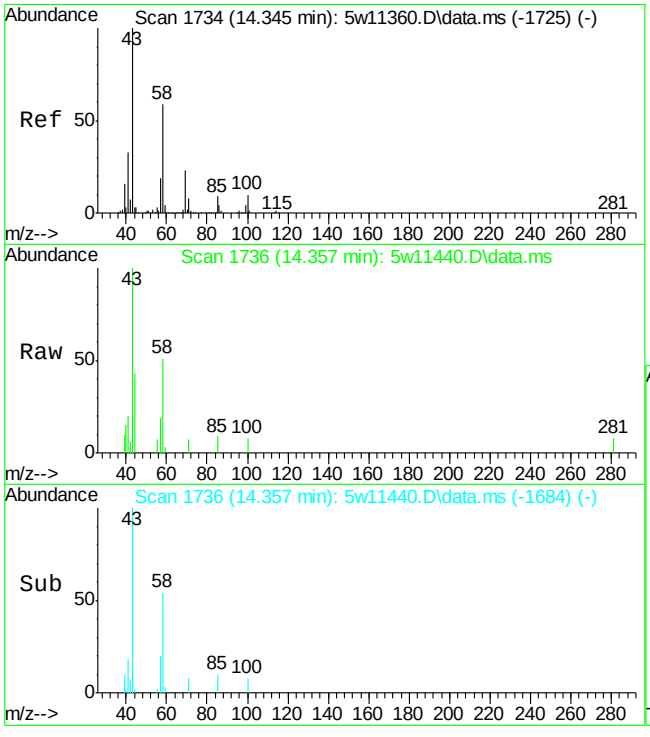


#66
Toluene
Concen: 3.36 ppb(v)
RT: 13.966 min Scan# 1672
Delta R.T. -0.030 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion: 91 Resp: 156251

Ion	Ratio	Lower	Upper
91	100		
92	57.2	40.3	74.9
65	11.8	7.6	14.0

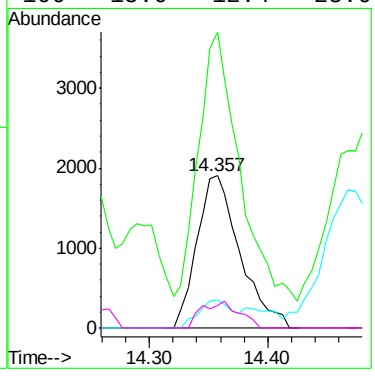


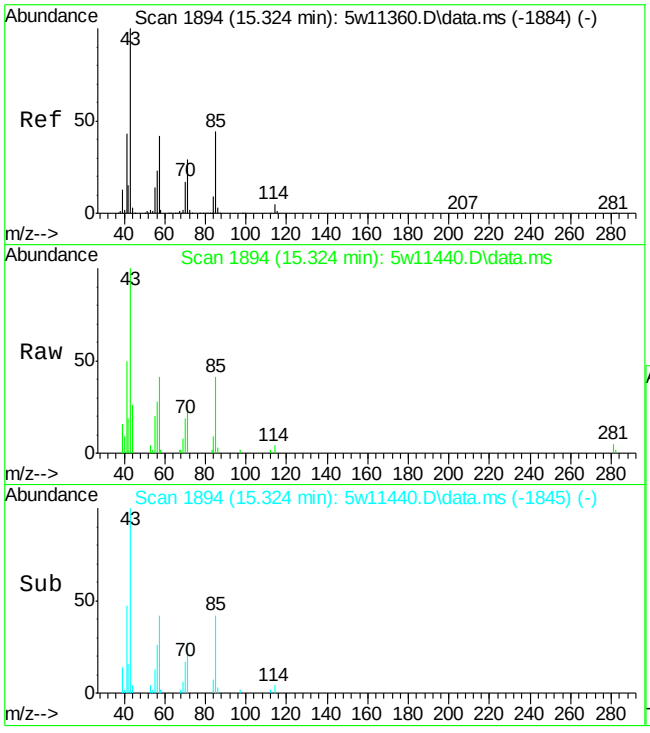


#68
2-Hexanone
Concen: 0.27 ppb(v)
RT: 14.357 min Scan# 1736
Delta R.T. -0.012 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion: 58 Resp: 4790

Ion	Ratio	Lower	Upper
58	100		
43	194.6	122.7	227.9
85	18.3	10.6	19.6
100	15.0	12.4	23.0

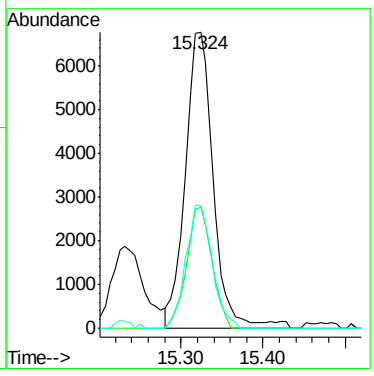


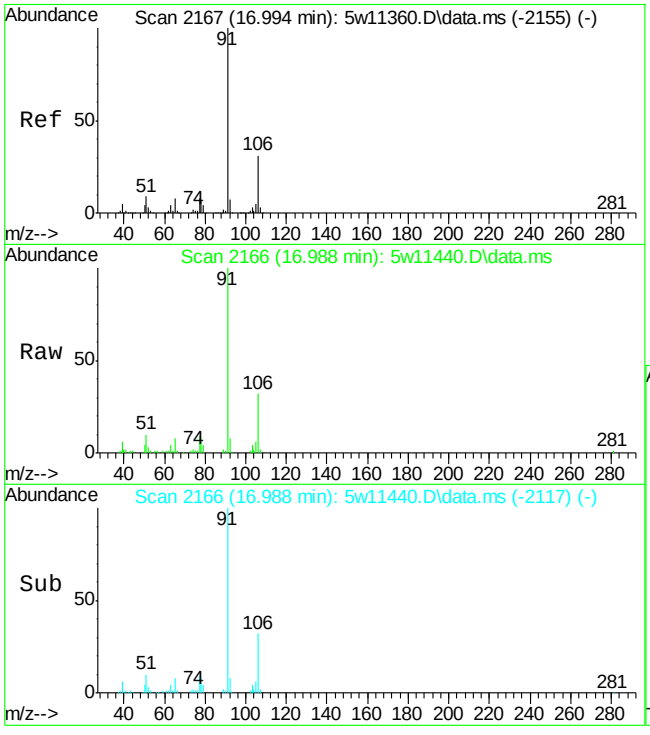


#73
Octane
Concen: 0.55 ppb(v)
RT: 15.324 min Scan# 1894
Delta R.T. -0.031 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion: 43 Resp: 15931

Ion	Ratio	Lower	Upper
43	100		
85	40.8	31.6	58.8
57	41.4	29.5	54.7

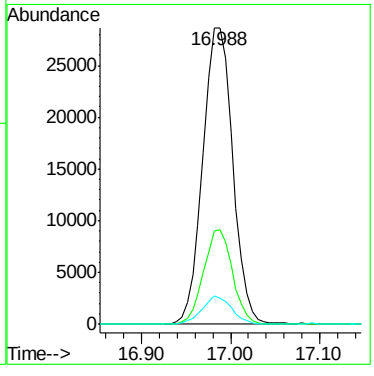


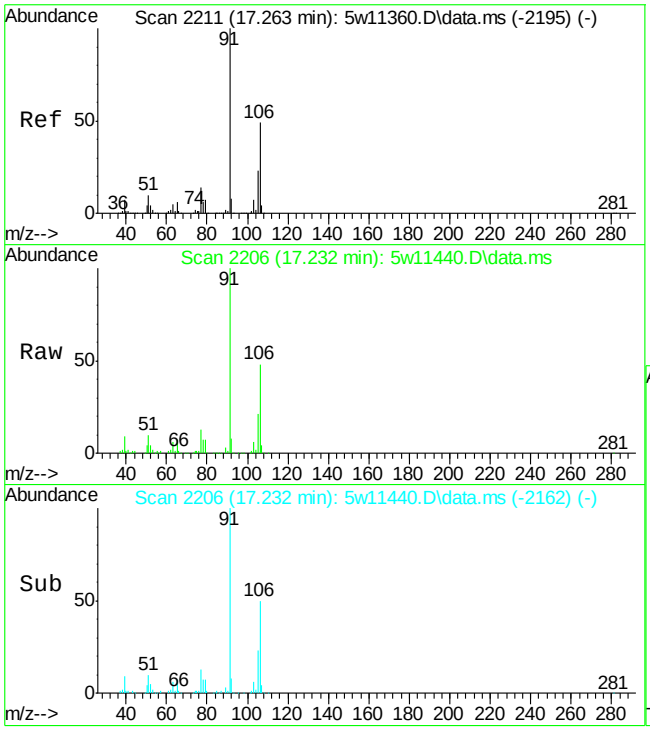


#77
Ethylbenzene
Concen: 1.17 ppb(v)
RT: 16.988 min Scan# 2166
Delta R.T. -0.031 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion: 91 Resp: 66853

Ion	Ratio	Lower	Upper
91	100		
106	31.8	21.9	40.7
77	8.9	6.0	11.2

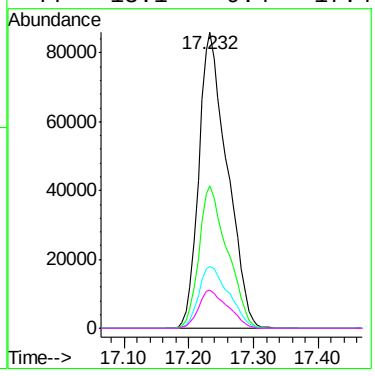


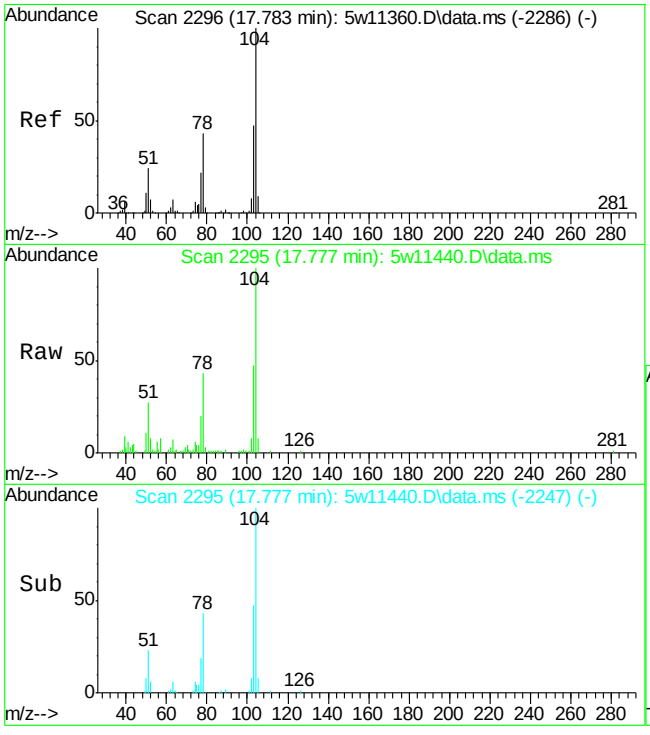


#78
m,p-Xylene
Concen: 5.72 ppb(v)
RT: 17.232 min Scan# 2206
Delta R.T. -0.061 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion: 91 Resp: 262074

Ion	Ratio	Lower	Upper
91	100		
106	48.1	35.1	65.1
105	21.0	16.0	29.8
77	13.1	9.4	17.4

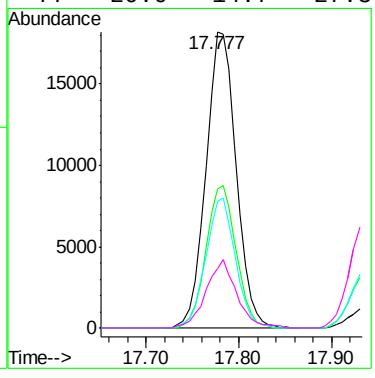


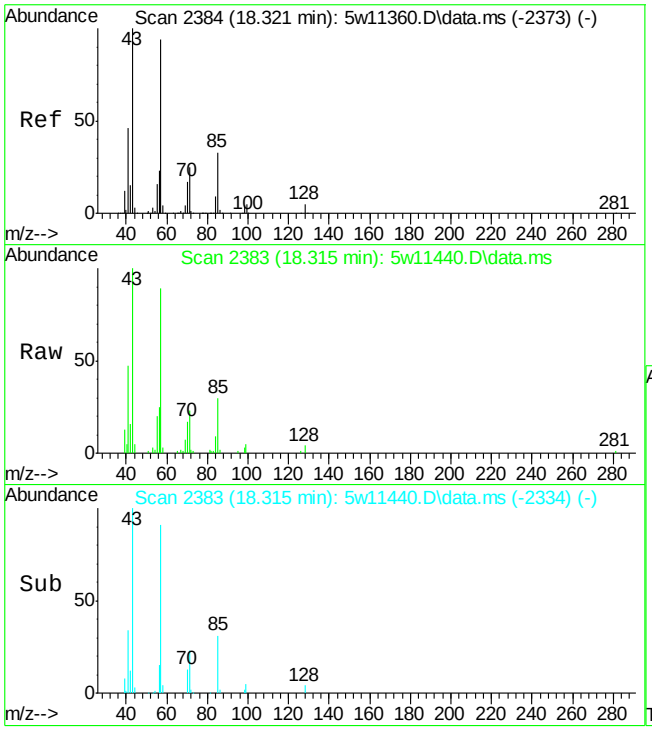


#79
Styrene
Concen: 1.31 ppb(v)
RT: 17.777 min Scan# 2295
Delta R.T. -0.037 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion:104 Resp: 41477

Ion	Ratio	Lower	Upper
104	100		
103	47.0	33.2	61.6
78	42.8	29.1	54.1
77	20.0	14.7	27.3

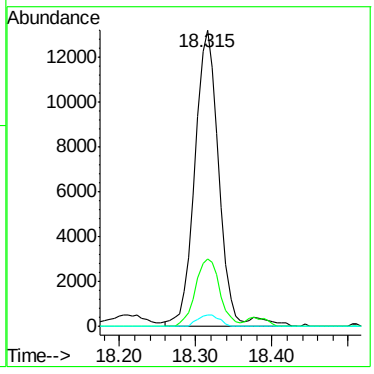


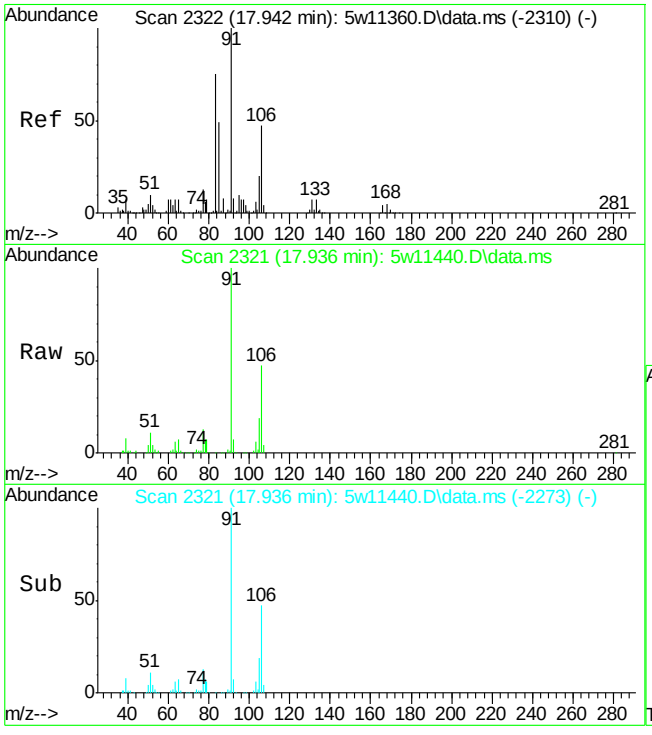


#80
Nonane
Concen: 1.00 ppb(v)
RT: 18.315 min Scan# 2383
Delta R.T. -0.030 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion: 43 Resp: 29048

Ion	Ratio	Lower	Upper
43	100		
71	22.8	18.4	34.2
128	3.7	3.6	6.8

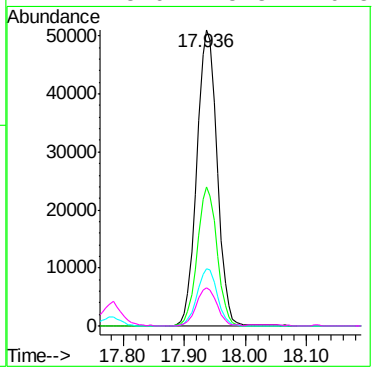


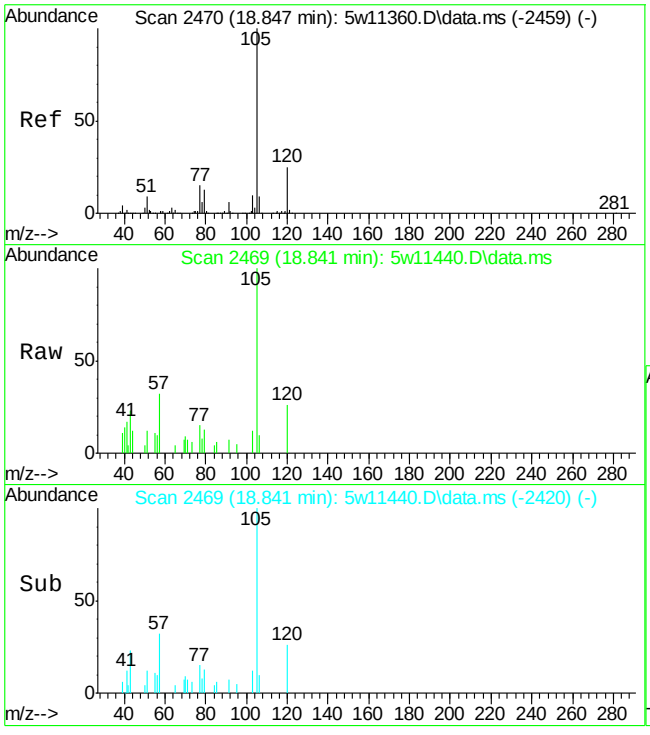


#81
o-Xylene
Concen: 2.64 ppb(v)
RT: 17.936 min Scan# 2321
Delta R.T. -0.037 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion: 91 Resp: 117885

Ion	Ratio	Lower	Upper
91	100		
106	47.0	33.5	62.1
105	19.2	13.4	24.8
77	13.0	8.8	16.3

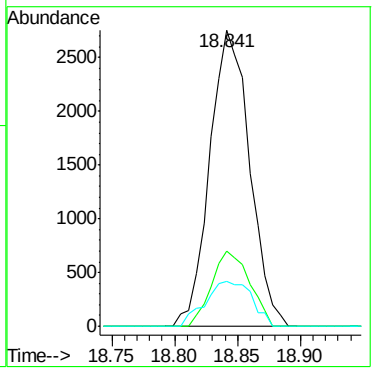


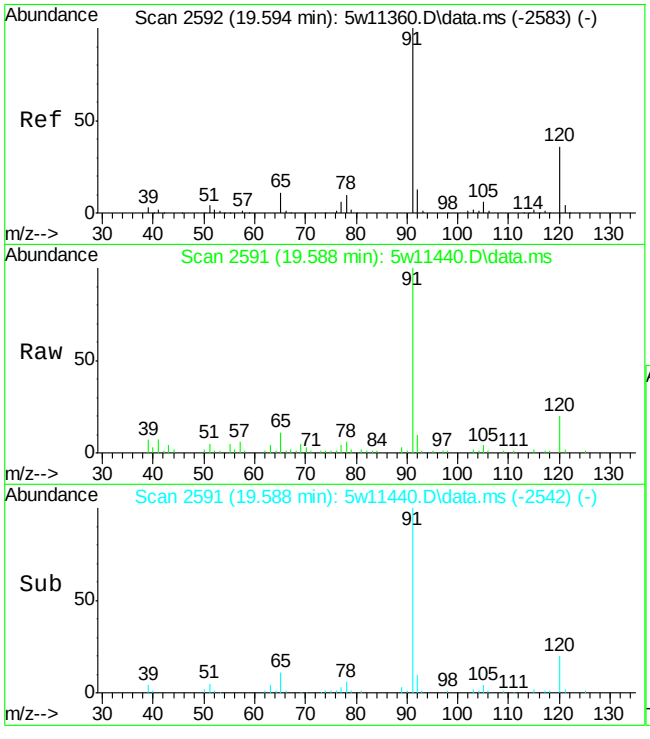


#85
Isopropylbenzene
Concen: 0.10 ppb(v)
RT: 18.841 min Scan# 2469
Delta R.T. -0.031 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion:105 Resp: 6058

Ion	Ratio	Lower	Upper
105	100		
120	25.6	18.1	33.5
77	15.2	10.8	20.0

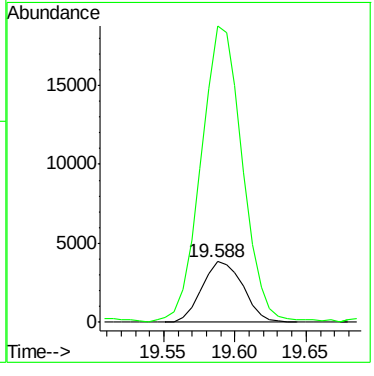


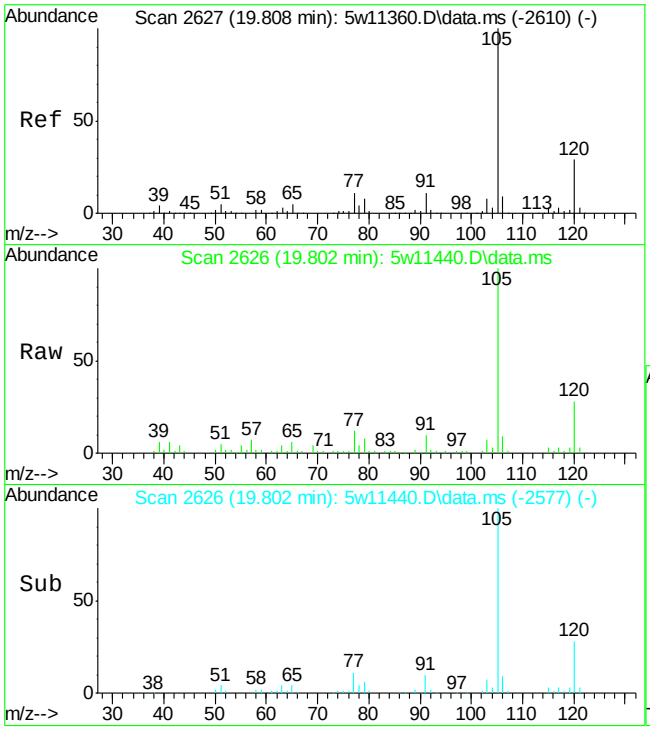


#88
n-Propylbenzene
Concen: 0.49 ppb(v)
RT: 19.588 min Scan# 2591
Delta R.T. -0.030 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion:120 Resp: 7665

Ion	Ratio	Lower	Upper
120	100		
91	491.1	323.0	599.8

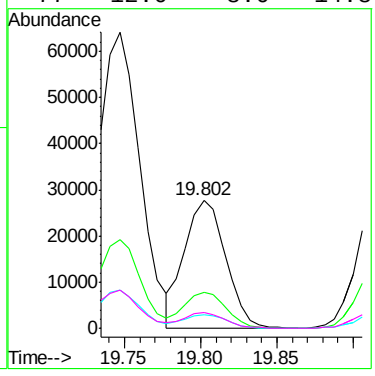


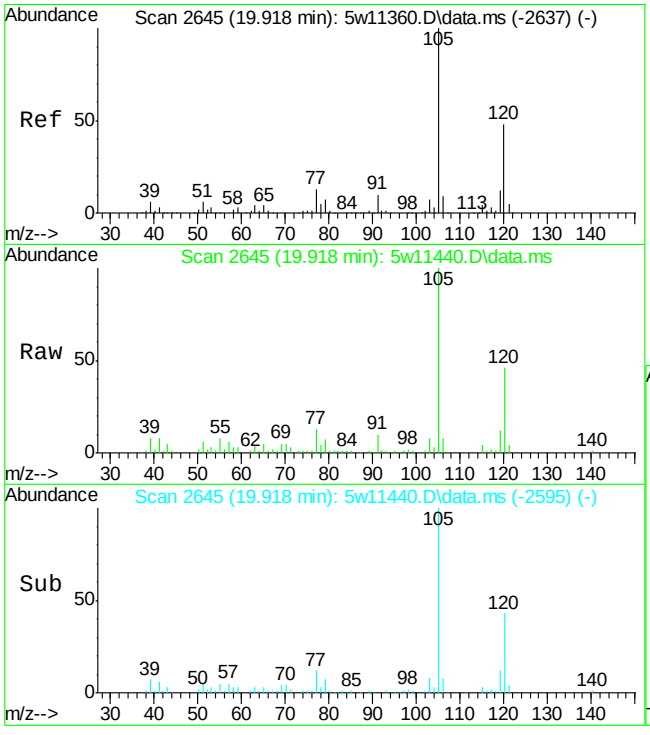


#90
4-Ethyltoluene
Concen: 0.88 ppb(v)
RT: 19.802 min Scan# 2626
Delta R.T. -0.031 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion:105 Resp: 52410

Ion	Ratio	Lower	Upper
105	100		
120	28.3	20.6	38.2
91	10.4	7.6	14.0
77	12.0	8.0	14.8

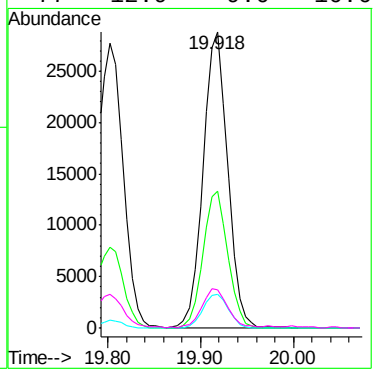


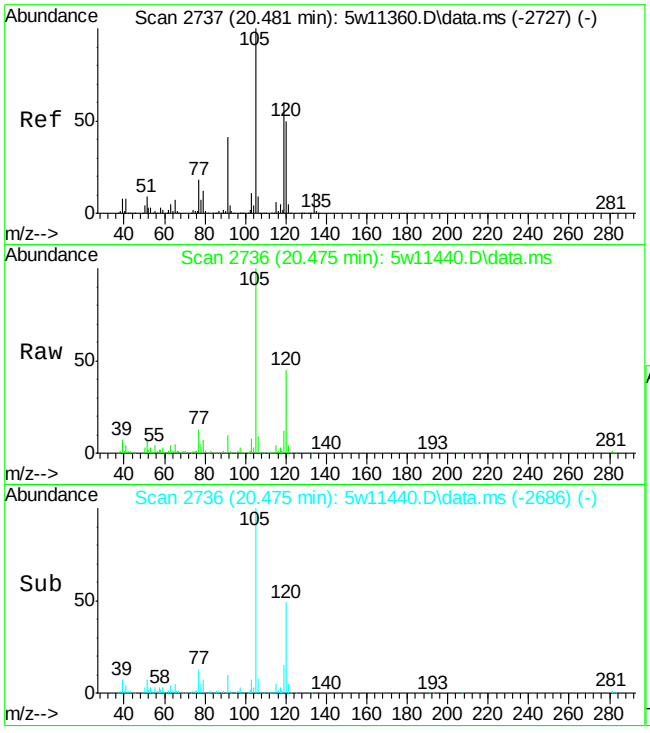


#91
1,3,5-Trimethylbenzene
Concen: 1.07 ppb(v)
RT: 19.918 min Scan# 2645
Delta R.T. -0.024 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion:105 Resp: 53661

Ion	Ratio	Lower	Upper
105	100		
120	46.4	34.2	63.4
119	11.6	8.8	16.4
77	12.9	9.0	16.6

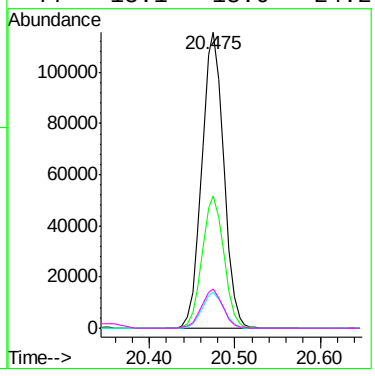


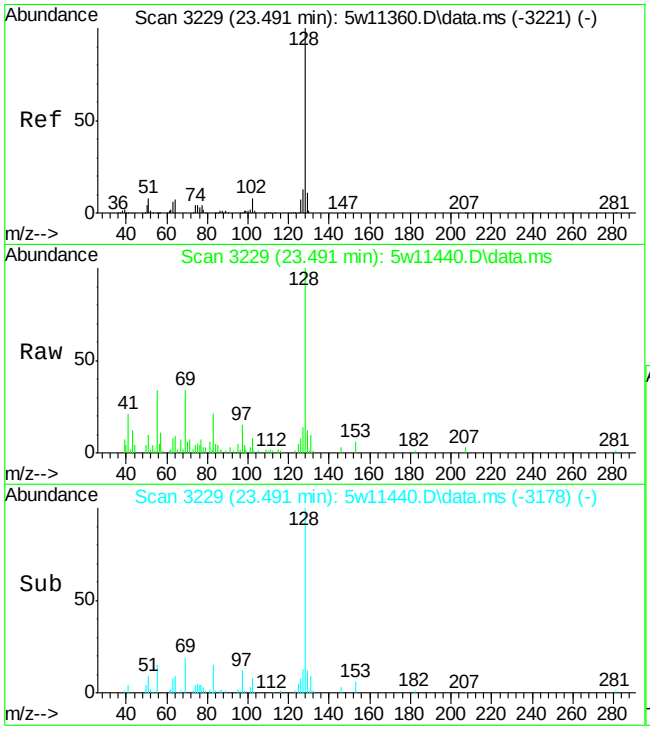


#94
1,2,4-Trimethylbenzene
Concen: 4.08 ppb(v)
RT: 20.475 min Scan# 2736
Delta R.T. -0.024 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion:105 Resp: 205107

Ion	Ratio	Lower	Upper
105	100		
120	44.8	35.0	65.0
119	12.2	45.2	84.0#
77	13.1	13.0	24.2

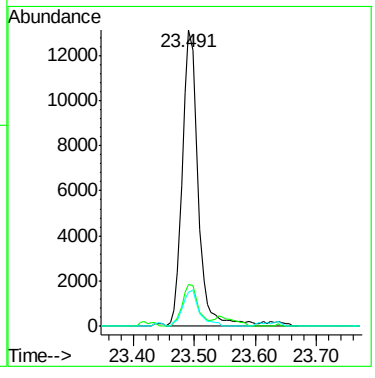




#104
Naphthalene
Concen: 0.59 ppb(v)
RT: 23.491 min Scan# 3229
Delta R.T. -0.018 min
Lab File: 5w11440.D
Acq: 8 May 2015 5:53 pm

Tgt Ion:128 Resp: 23978

Ion	Ratio	Lower	Upper
128	100		
127	14.1	8.8	16.4
129	11.6	7.6	14.2



Manual Integration Approval Summary

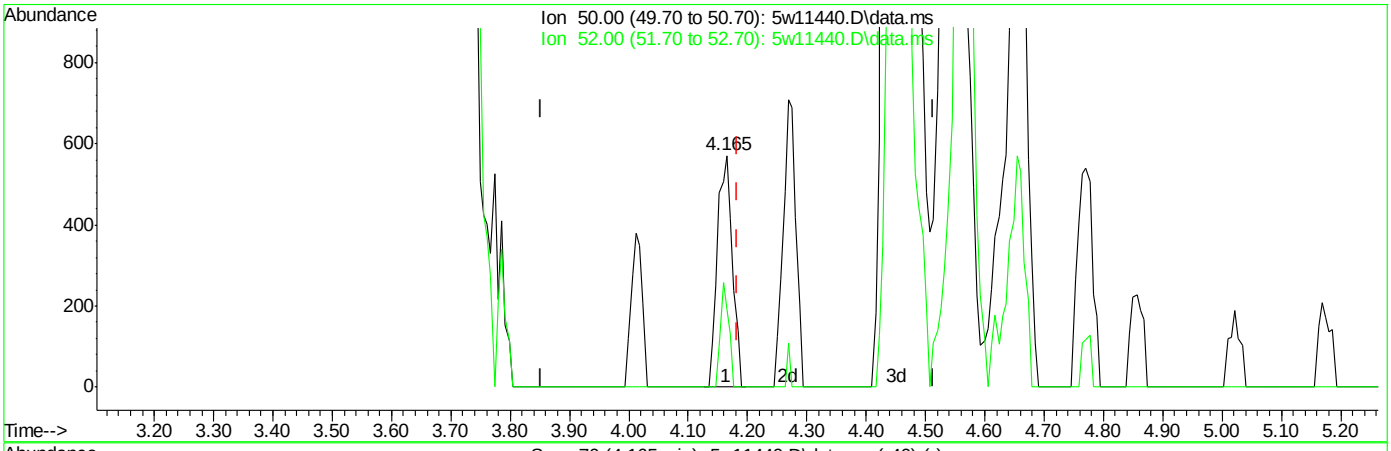
Sample Number:	JB94203-3	**Method:**	TO-15
Lab FileID:	5W11440.D	**Analyst approved:**	05/12/15 10:46 Michael Lee
Injection Time:	05/08/15 17:53	**Supervisor approved:**	05/12/15 12:59 Kanya Veerawat

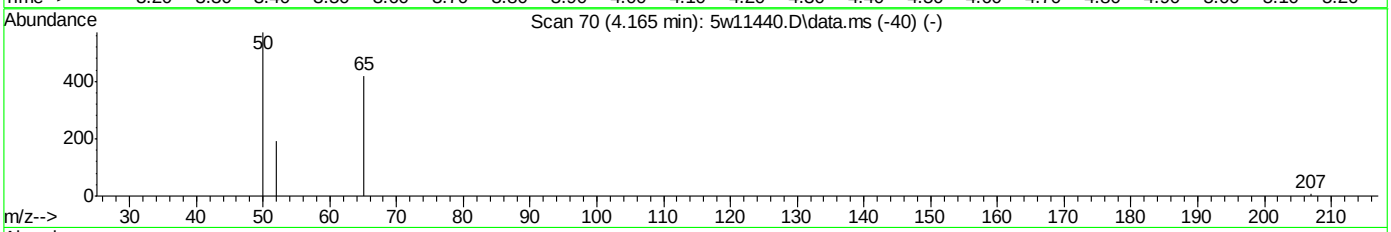
Parameter	CAS	Sig#	R.T. (min.)	Reason
2,3-Dimethylpentane	565-59-3		10.97	Split peak

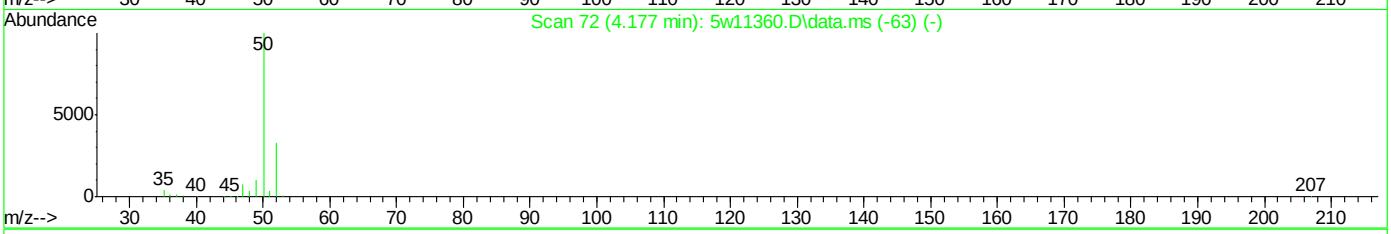
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11440.D
Acq On : 8 May 2015 5:53 pm
Operator : mikel1
Sample : JB94203-3
Misc : MS84855,v5w449,100,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 09 07:01:20 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration







TIC: 5w11440.D\data.ms

(8) Chloromethane

4.165min (-0.018) 0.10ppb(v)

response 995

Ion	Exp%	Act%
50.00	100	100
52.00	33.10	33.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11472.D
Acq On : 9 May 2015 8:16 pm
Operator : mikel1
Sample : JB94203-3
Misc : MS84855,v5w450,20,,,,1.33
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 12 08:09:41 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

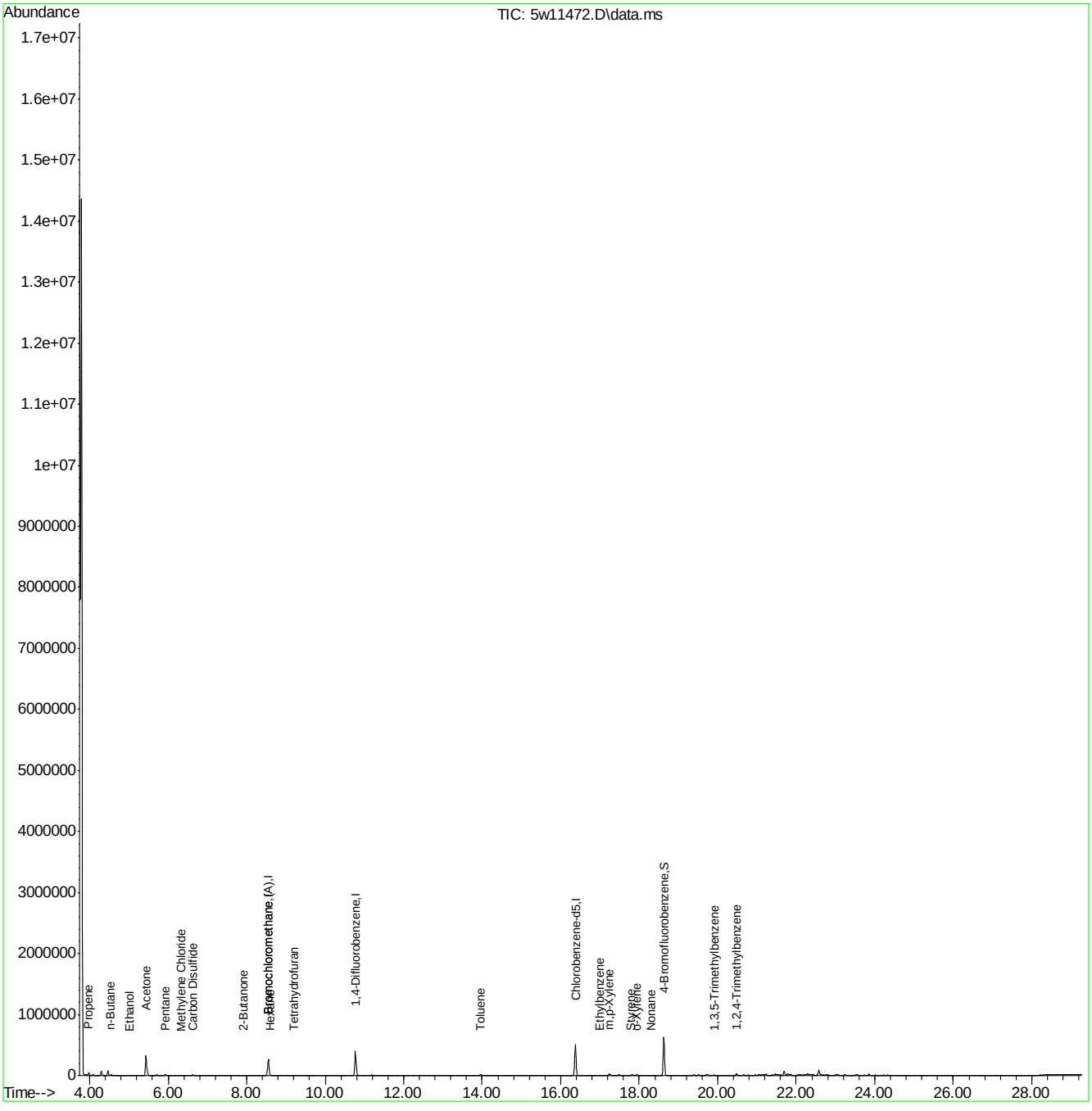
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.551	130	112015	10.00	ppb(v	#-0.02
53) 1,4-Difluorobenzene	10.778	114	404481	10.00	ppb(v	-0.02
75) Chlorobenzene-d5	16.376	82	221947	10.00	ppb(v	-0.03
106) Bromochloromethane (A)	8.551	130	112015	10.00	ppb(v	#-0.02
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.627	95	285495	9.86	ppb(v	-0.04
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.60%			
Target Compounds						Qvalue
5) Propene	3.975	41	25007	3.10	ppb(v	98
12) n-Butane	4.538	58	1820	1.14	ppb(v#	78
21) Acetone	5.438	58	140116	26.69	ppb(v	93
22) Pentane	5.927	57	1203	0.45	ppb(v	72
28) Methylene Chloride	6.318	84	988	0.10	ppb(v	87
29) Carbon Disulfide	6.624	76	16186	0.49	ppb(v	98
30) Ethanol	5.009	45	2046	0.39	ppb(v#	91
38) 2-Butanone	7.927	72	2078	0.36	ppb(v	94
39) Hexane	8.594	57	2883	0.15	ppb(v#	41
46) Tetrahydrofuran	9.206	72	840	0.15	ppb(v#	63
66) Toluene	13.966	91	16636	0.39	ppb(v	90
77) Ethylbenzene	16.988	91	6449	0.12	ppb(v	96
78) m,p-Xylene	17.232	91	24943	0.58	ppb(v	98
79) Styrene	17.783	104	3759	0.13	ppb(v	98
80) Nonane	18.309	43	2912	0.11	ppb(v#	97
81) o-Xylene	17.936	91	11644	0.28	ppb(v	97
91) 1,3,5-Trimethylbenzene	19.918	105	4851	0.10	ppb(v	95
94) 1,2,4-Trimethylbenzene	20.475	105	17884	0.38	ppb(v#	64

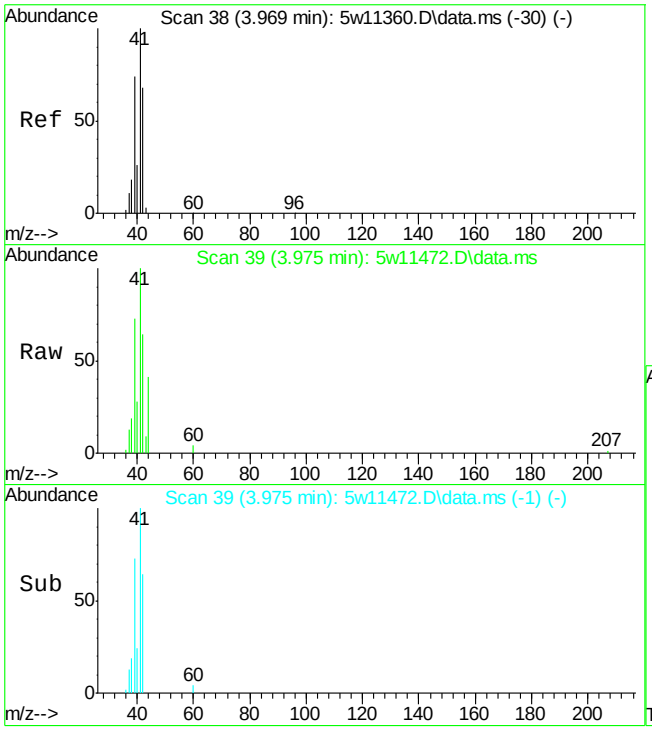
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11472.D
Acq On : 9 May 2015 8:16 pm
Operator : mikel1
Sample : JB94203-3
Misc : MS84855,v5w450,20,,,,1.33
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 12 08:09:41 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

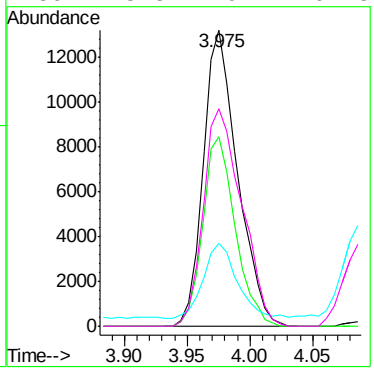


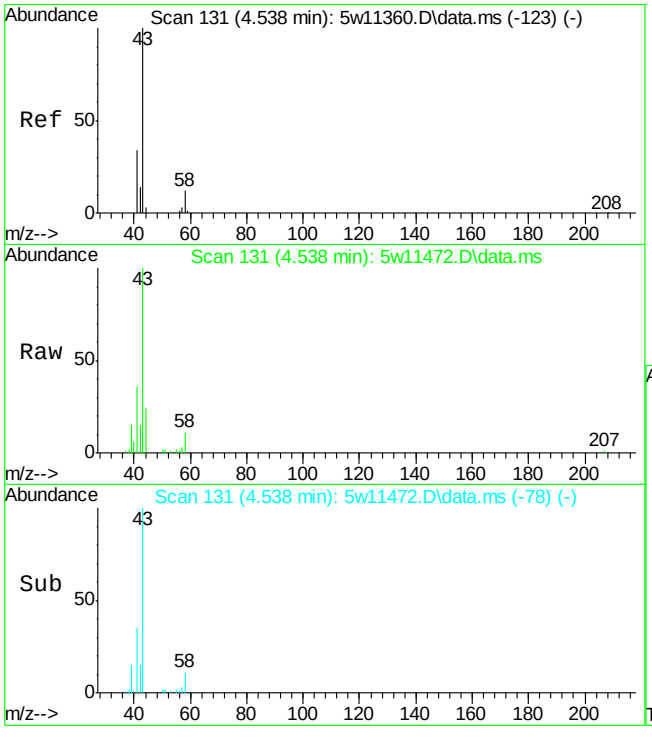


#5
Propene
Concen: 3.10 ppb(v)
RT: 3.975 min Scan# 39
Delta R.T. 0.006 min
Lab File: 5w11472.D
Acq: 9 May 2015 8:16 pm

Tgt Ion: 41 Resp: 25007

Ion	Ratio	Lower	Upper
41	100		
42	63.9	45.0	83.6
40	28.0	17.9	33.3
39	73.3	49.7	92.3

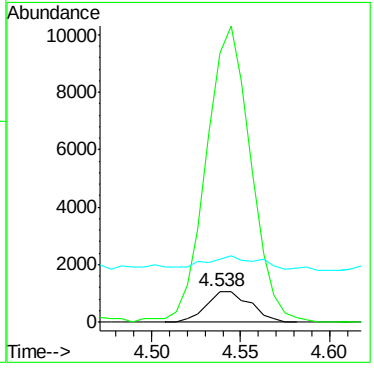


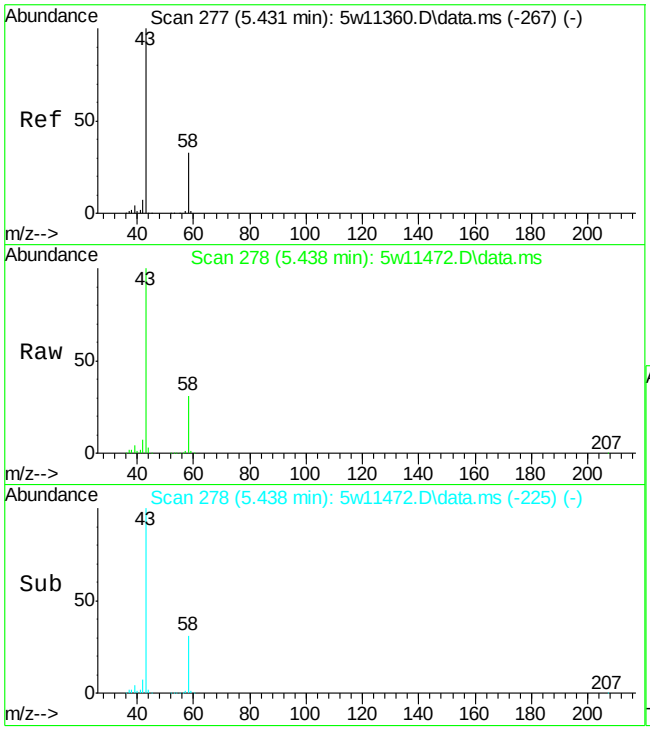


#12
n-Butane
Concen: 1.14 ppb(v)
RT: 4.538 min Scan# 131
Delta R.T. -0.006 min
Lab File: 5w11472.D
Acq: 9 May 2015 8:16 pm

Tgt Ion: 58 Resp: 1820

Ion	Ratio	Lower	Upper
58	100		
43	876.1	583.8	1084.2
44	206.6	25.6	47.6#

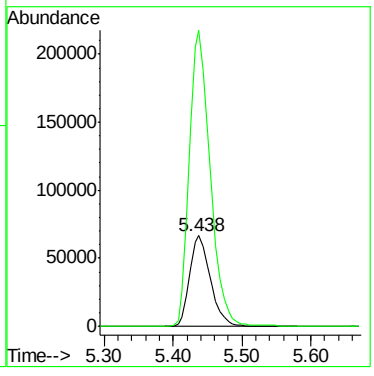


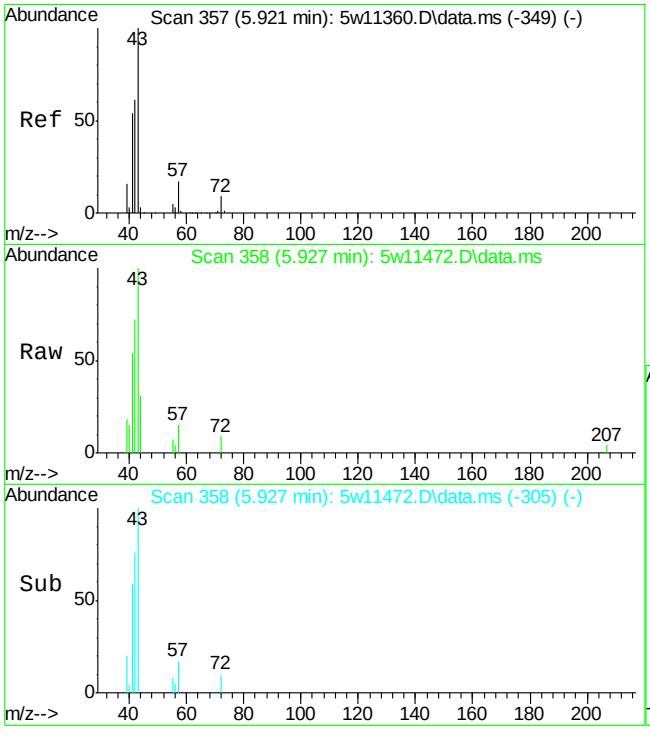


#21
Acetone
Concen: 26.69 ppb(v)
RT: 5.438 min Scan# 278
Delta R.T. -0.006 min
Lab File: 5w11472.D
Acq: 9 May 2015 8:16 pm

Tgt Ion: 58 Resp: 140116

Ion	Ratio	Lower	Upper
58	100		
43	326.0	217.8	404.6

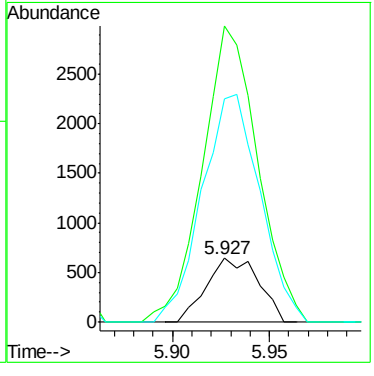


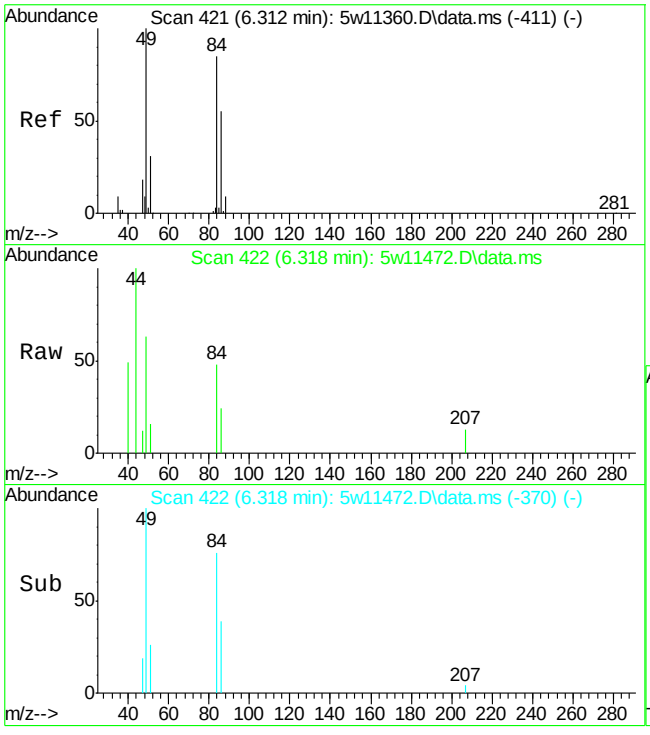


#22
Pentane
Concen: 0.45 ppb(v)
RT: 5.927 min Scan# 358
Delta R.T. -0.006 min
Lab File: 5w11472.D
Acq: 9 May 2015 8:16 pm

Tgt Ion: 57 Resp: 1203

Ion	Ratio	Lower	Upper
57	100		
42	466.6	262.5	487.5
41	352.3	225.7	419.1

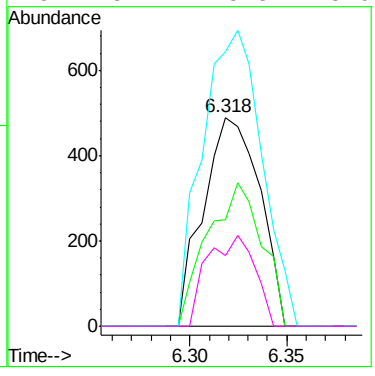


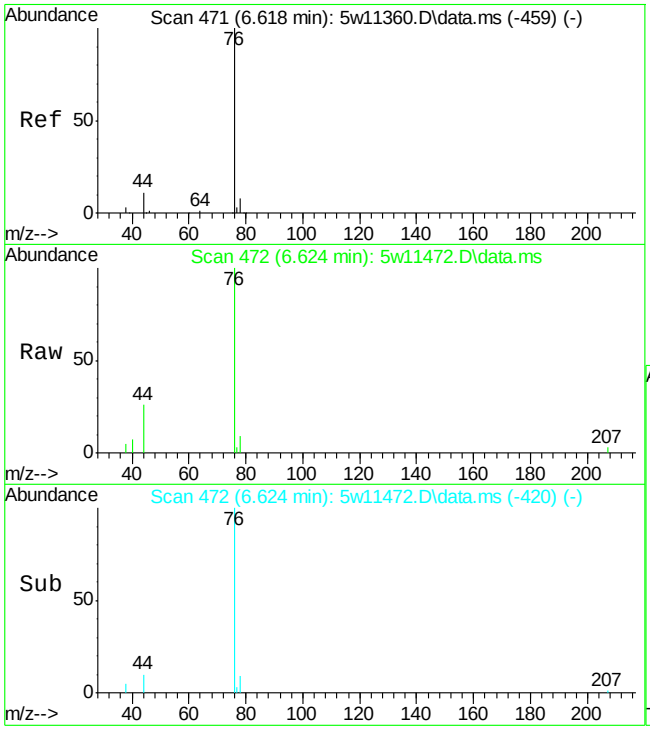


#28
Methylene Chloride
Concen: 0.10 ppb(v)
RT: 6.318 min Scan# 422
Delta R.T. -0.012 min
Lab File: 5w11472.D
Acq: 9 May 2015 8:16 pm

Tgt Ion: 84 Resp: 988

Ion	Ratio	Lower	Upper
84	100		
86	51.0	44.7	83.1
49	131.4	80.9	150.3
51	34.1	25.8	48.0

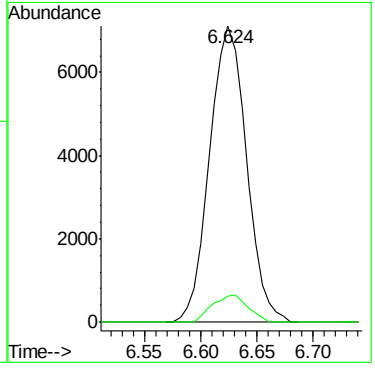


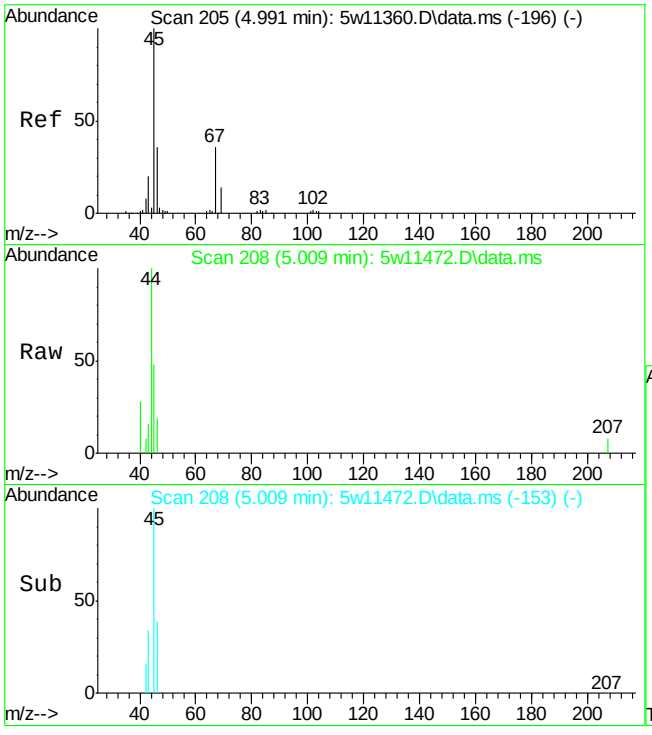


#29
Carbon Disulfide
Concen: 0.49 ppb(v)
RT: 6.624 min Scan# 472
Delta R.T. -0.013 min
Lab File: 5w11472.D
Acq: 9 May 2015 8:16 pm

Tgt Ion: 76 Resp: 16186

Ion	Ratio	Lower	Upper
76	100		
78	8.7	6.6	12.4

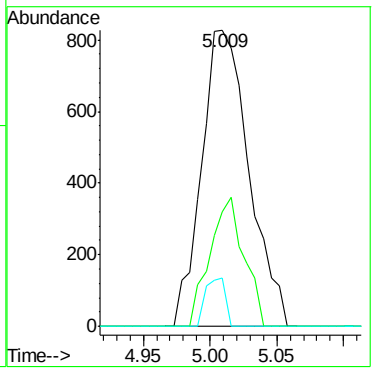


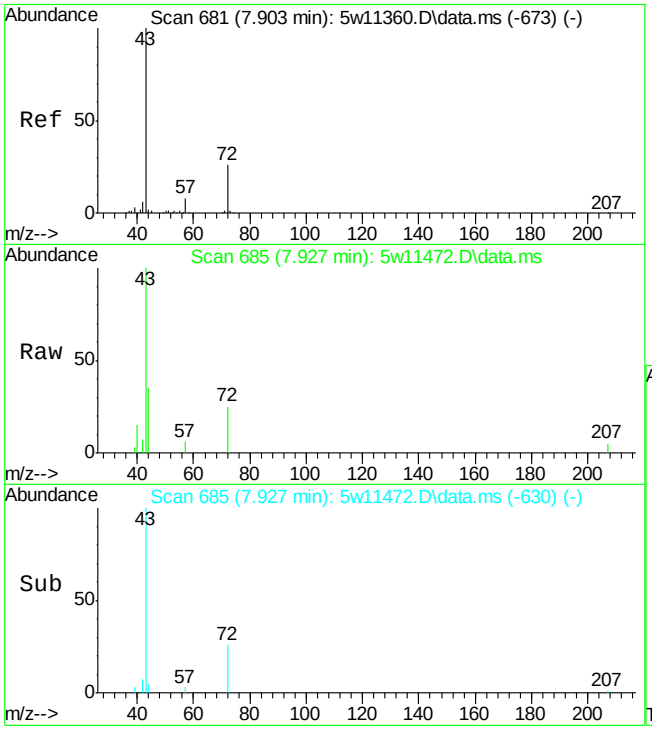


#30
Ethanol
Concen: 0.39 ppb(v)
RT: 5.009 min Scan# 208
Delta R.T. 0.006 min
Lab File: 5w11472.D
Acq: 9 May 2015 8:16 pm

Tgt Ion: 45 Resp: 2046

Ion	Ratio	Lower	Upper
45	100		
46	38.7	24.6	45.6
42	16.2	5.5	10.1#

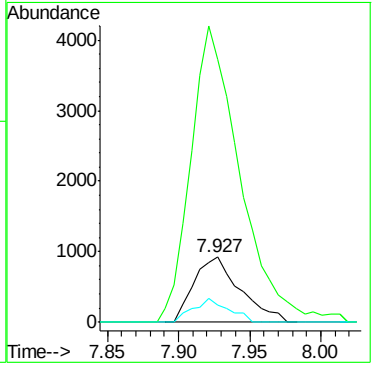


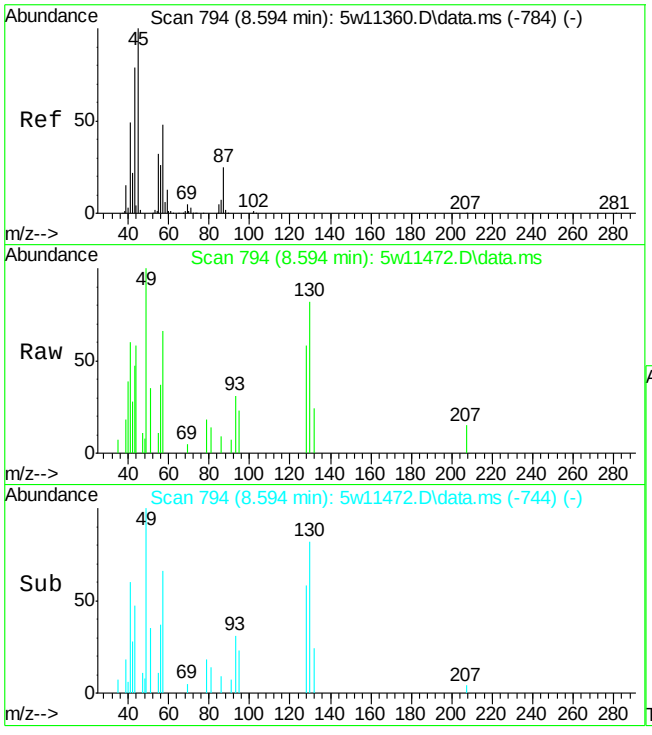


#38
2-Butanone
Concen: 0.36 ppb(v)
RT: 7.927 min Scan# 685
Delta R.T. 0.006 min
Lab File: 5w11472.D
Acq: 9 May 2015 8:16 pm

Tgt Ion: 72 Resp: 2078

Ion	Ratio	Lower	Upper
72	100		
43	405.8	274.1	508.9
57	25.5	22.1	41.1

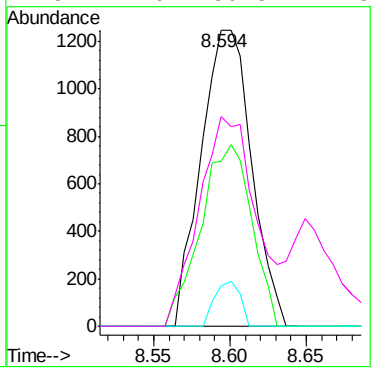


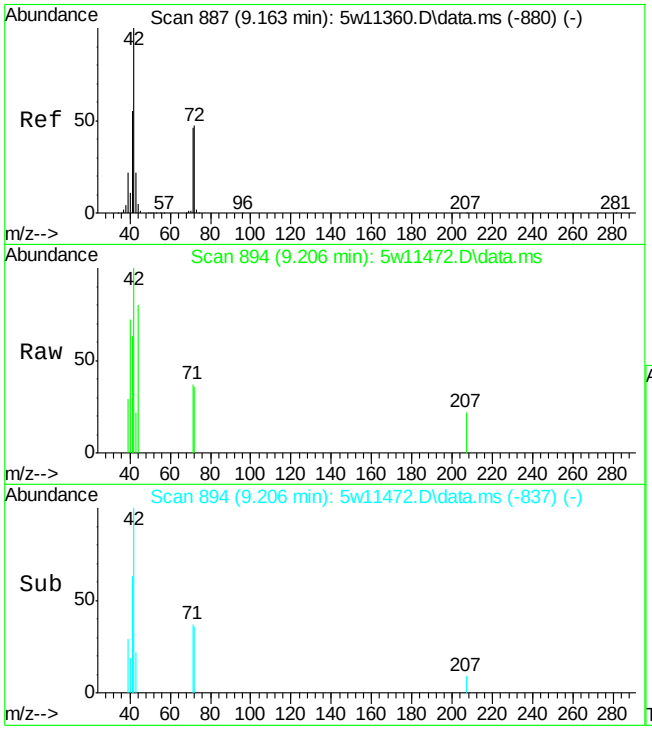


#39
Hexane
Concen: 0.15 ppb(v)
RT: 8.594 min Scan# 794
Delta R.T. -0.024 min
Lab File: 5w11472.D
Acq: 9 May 2015 8:16 pm

Tgt Ion: 57 Resp: 2883

Ion	Ratio	Lower	Upper
57	100		
56	55.7	37.4	69.4
86	13.6	10.4	19.2
43	71.0	130.8	242.8#

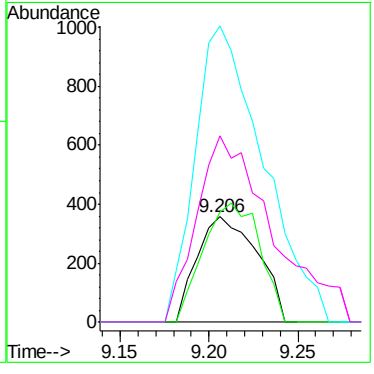


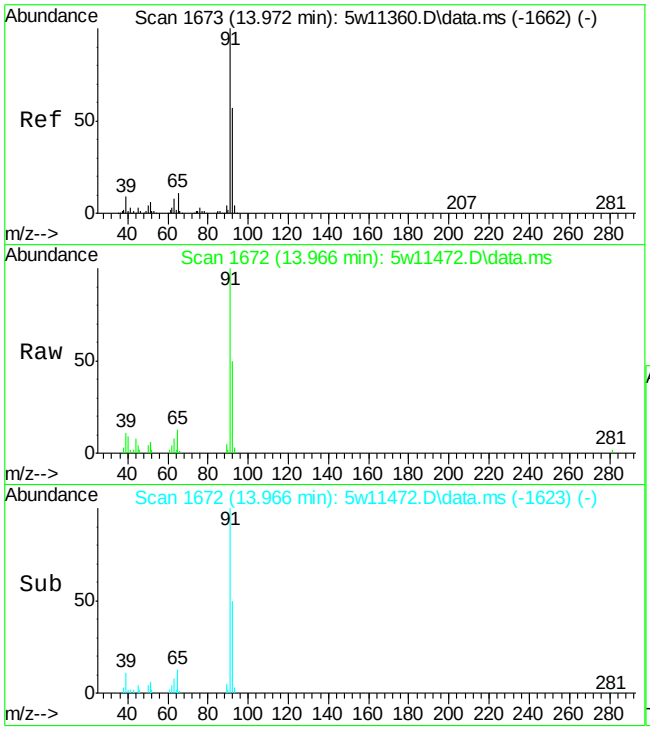


#46
Tetrahydrofuran
Concen: 0.15 ppb(v)
RT: 9.206 min Scan# 894
Delta R.T. 0.018 min
Lab File: 5w11472.D
Acq: 9 May 2015 8:16 pm

Tgt Ion: 72 Resp: 840

Ion	Ratio	Lower	Upper
72	100		
71	105.0	68.5	127.3
42	281.5	151.3	281.1#
41	177.3	83.0	154.1#

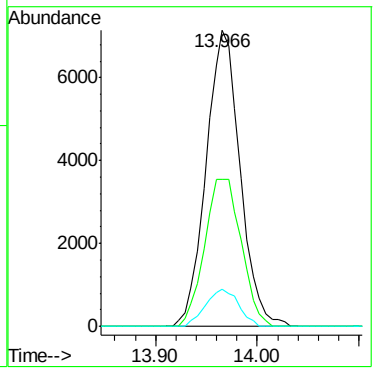


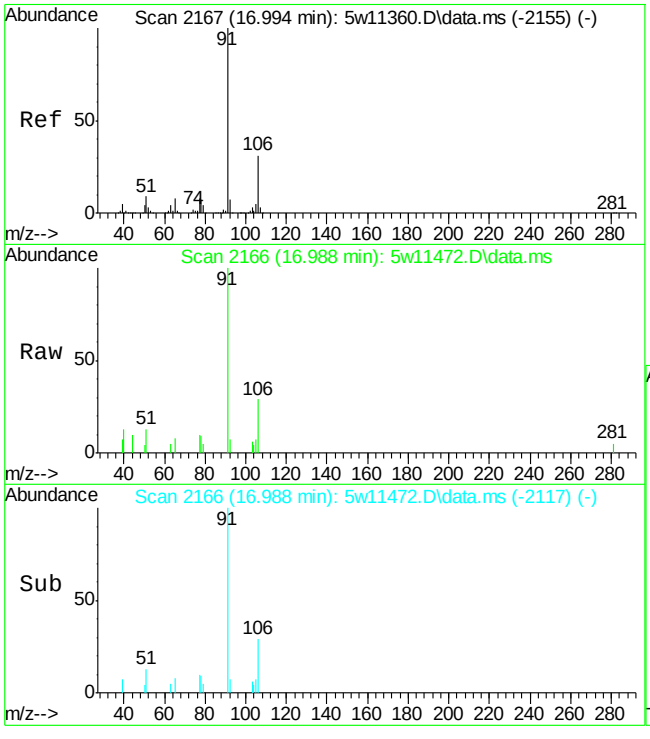


#66
Toluene
Concen: 0.39 ppb(v)
RT: 13.966 min Scan# 1672
Delta R.T. -0.031 min
Lab File: 5w11472.D
Acq: 9 May 2015 8:16 pm

Tgt Ion: 91 Resp: 16636

Ion	Ratio	Lower	Upper
91	100		
92	49.8	40.3	74.9
65	12.5	7.6	14.0

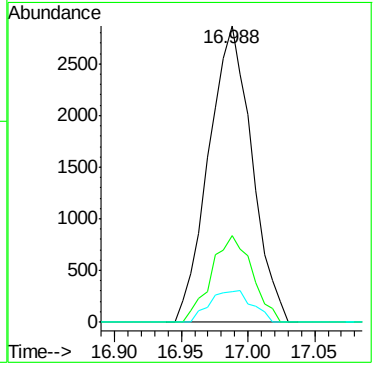


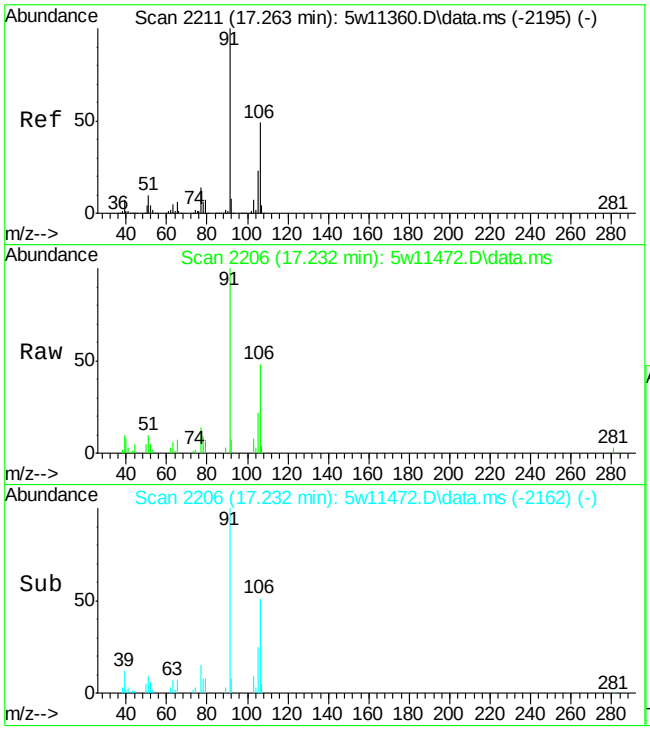


#77
Ethylbenzene
Concen: 0.12 ppb(v)
RT: 16.988 min Scan# 2166
Delta R.T. -0.031 min
Lab File: 5w11472.D
Acq: 9 May 2015 8:16 pm

Tgt Ion: 91 Resp: 6449

Ion	Ratio	Lower	Upper
91	100		
106	29.1	21.9	40.7
77	10.2	6.0	11.2

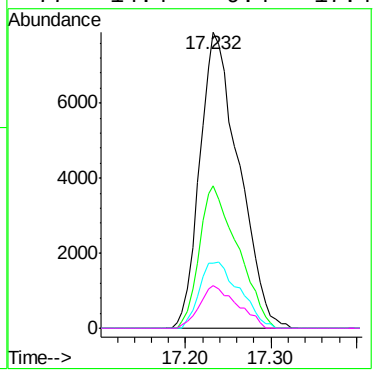


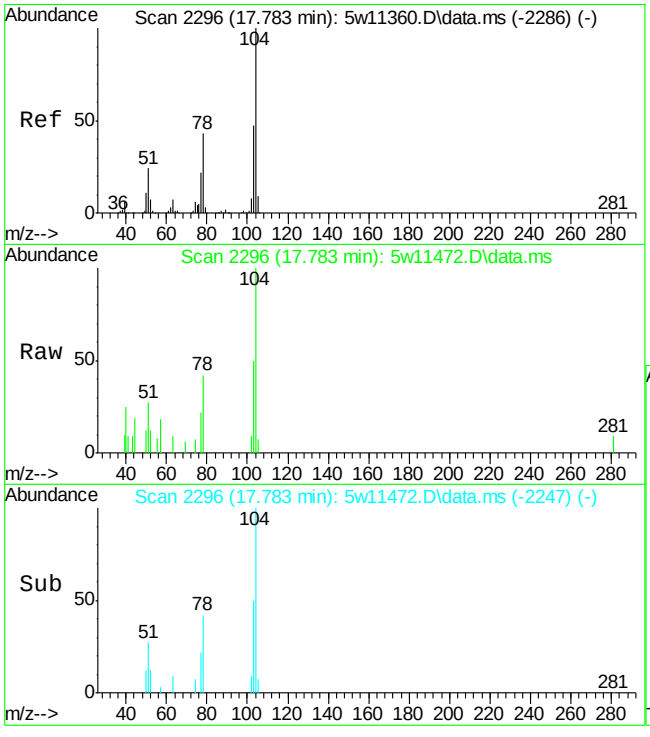


#78
m,p-Xylene
Concen: 0.58 ppb(v)
RT: 17.232 min Scan# 2206
Delta R.T. -0.061 min
Lab File: 5w11472.D
Acq: 9 May 2015 8:16 pm

Tgt Ion: 91 Resp: 24943

Ion	Ratio	Lower	Upper
91	100		
106	48.3	35.1	65.1
105	22.1	16.0	29.8
77	14.4	9.4	17.4

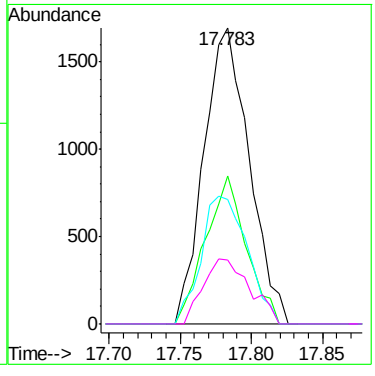


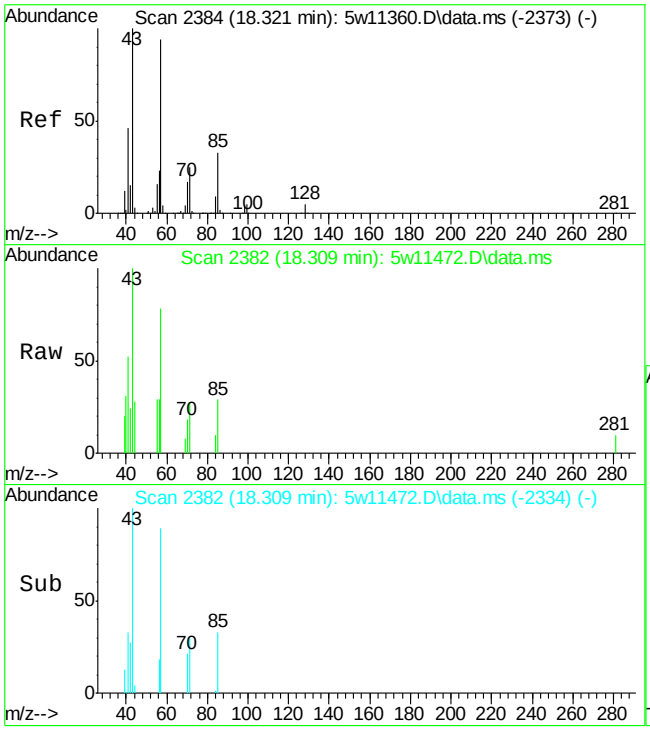


#79
Styrene
Concen: 0.13 ppb(v)
RT: 17.783 min Scan# 2296
Delta R.T. -0.031 min
Lab File: 5w11472.D
Acq: 9 May 2015 8:16 pm

Tgt Ion:104 Resp: 3759

Ion	Ratio	Lower	Upper
104	100		
103	50.0	33.2	61.6
78	42.2	29.1	54.1
77	21.6	14.7	27.3

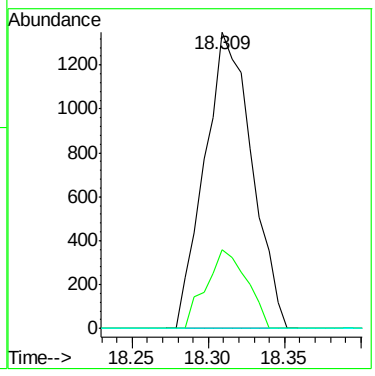


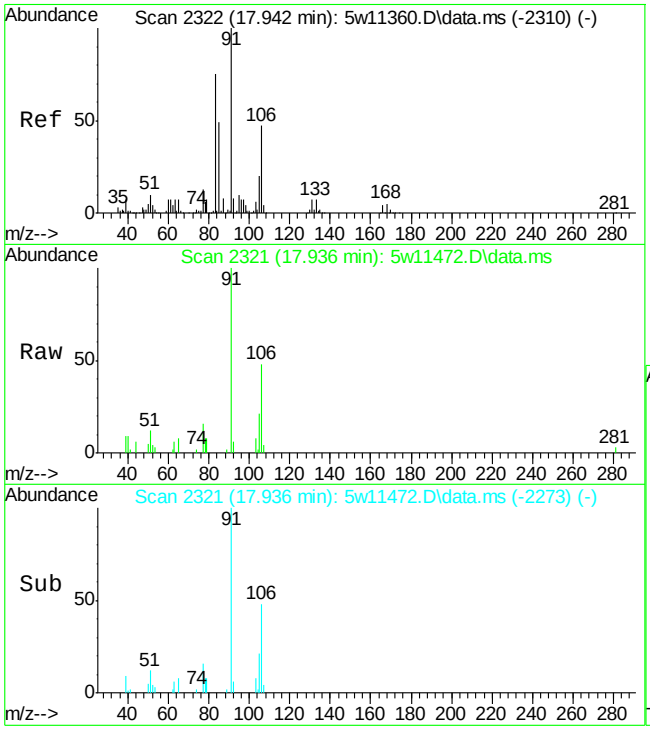


#80
Nonane
Concen: 0.11 ppb(v)
RT: 18.309 min Scan# 2382
Delta R.T. -0.037 min
Lab File: 5w11472.D
Acq: 9 May 2015 8:16 pm

Tgt Ion: 43 Resp: 2912

Ion	Ratio	Lower	Upper
43	100		
71	26.5	18.4	34.2
128	0.0	3.6	6.8#

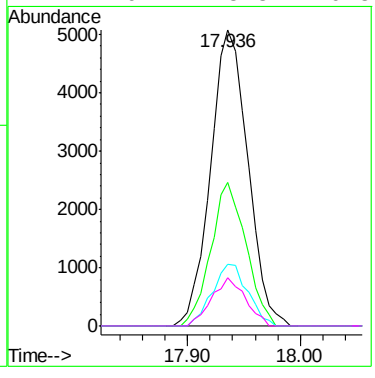


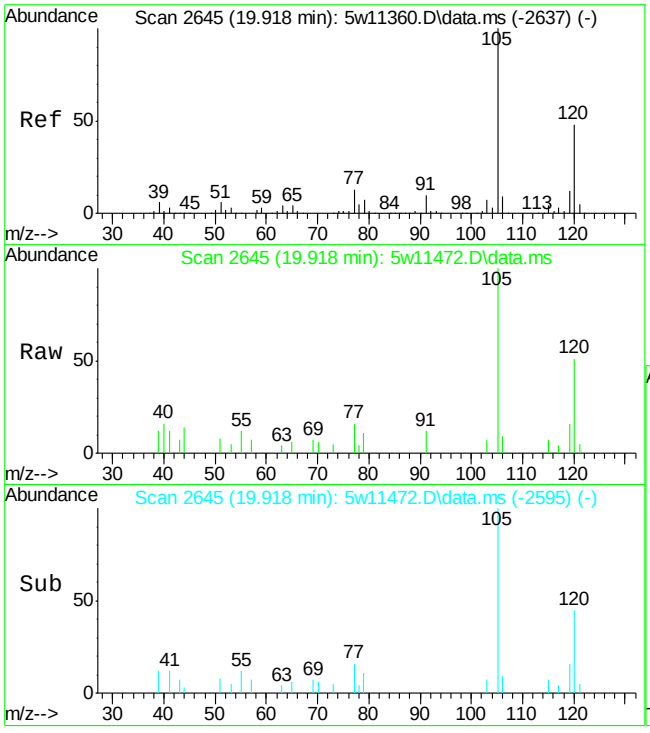


#81
o-Xylene
Concen: 0.28 ppb(v)
RT: 17.936 min Scan# 2321
Delta R.T. -0.037 min
Lab File: 5w11472.D
Acq: 9 May 2015 8:16 pm

Tgt Ion: 91 Resp: 11644

Ion	Ratio	Lower	Upper
91	100		
106	48.5	33.5	62.1
105	20.8	13.4	24.8
77	16.2	8.8	16.3

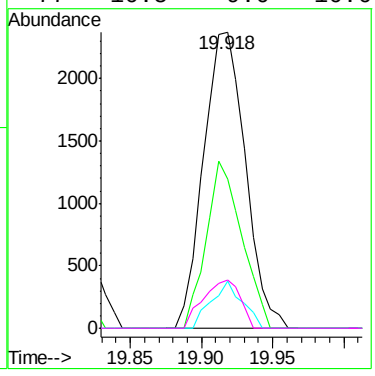


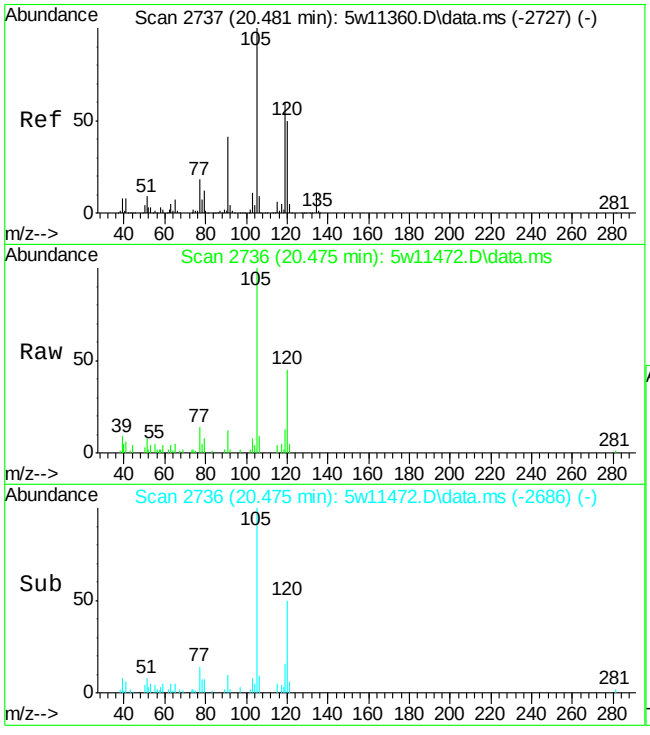


#91
1,3,5-Trimethylbenzene
Concen: 0.10 ppb(v)
RT: 19.918 min Scan# 2645
Delta R.T. -0.024 min
Lab File: 5w11472.D
Acq: 9 May 2015 8:16 pm

Tgt Ion:105 Resp: 4851

Ion	Ratio	Lower	Upper
105	100		
120	50.5	34.2	63.4
119	16.0	8.8	16.4
77	16.5	9.0	16.6

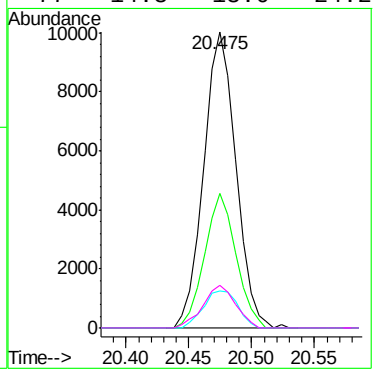




#94
1,2,4-Trimethylbenzene
Concen: 0.38 ppb(v)
RT: 20.475 min Scan# 2736
Delta R.T. -0.024 min
Lab File: 5w11472.D
Acq: 9 May 2015 8:16 pm

Tgt Ion:105 Resp: 17884

Ion	Ratio	Lower	Upper
105	100		
120	45.4	35.0	65.0
119	12.6	45.2	84.0#
77	14.3	13.0	24.2



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 05/12/15 13:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11441.D
Acq On : 8 May 2015 6:35 pm
Operator : mikel1
Sample : JB94203-4
Misc : MS84855,v5w449,100,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 12 09:33:50 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

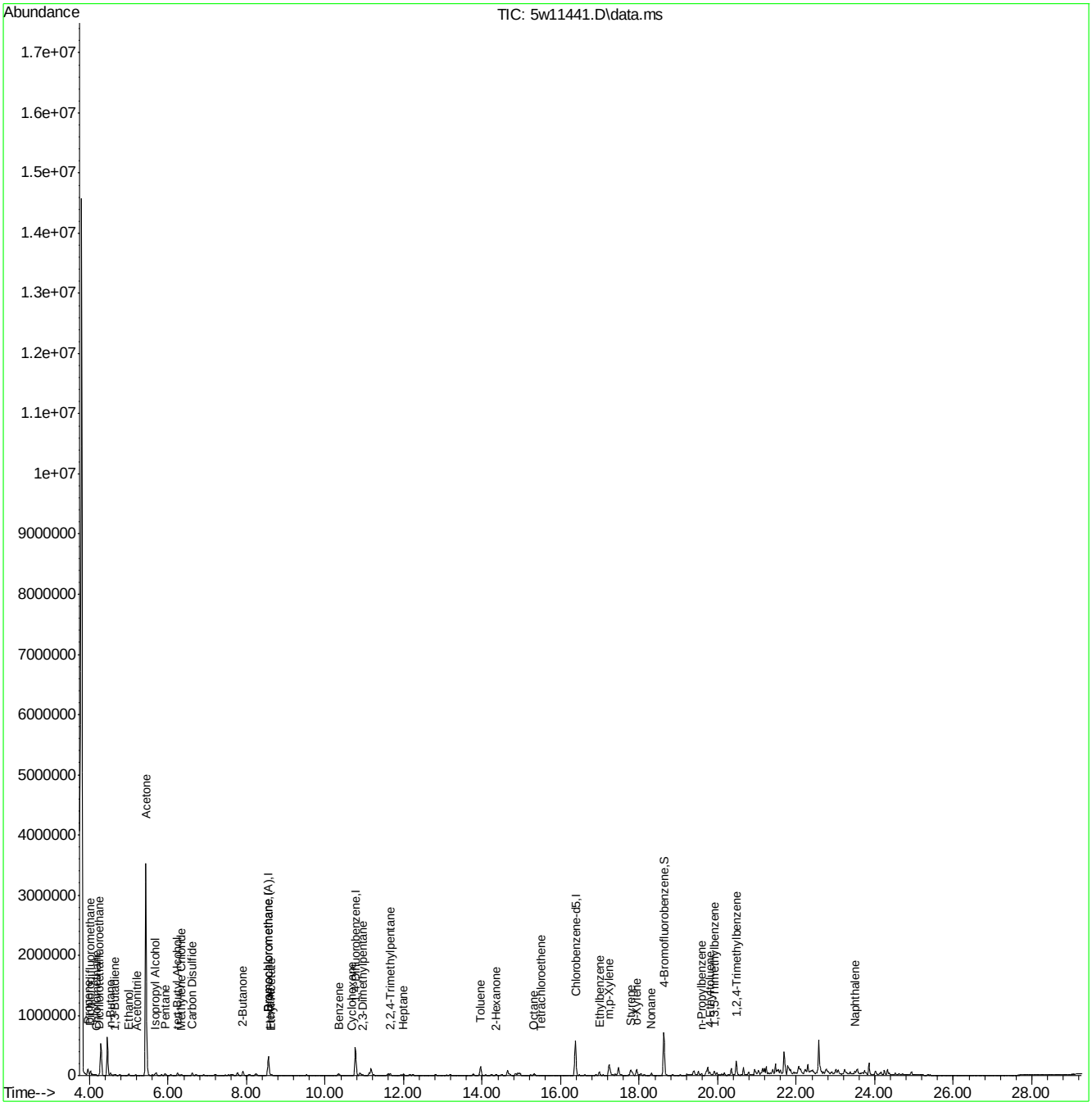
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.551	130	134752	10.00	ppb(v	-0.02
53) 1,4-Difluorobenzene	10.772	114	486425	10.00	ppb(v	-0.03
75) Chlorobenzene-d5	16.376	82	251766	10.00	ppb(v	-0.03
106) Bromochloromethane (A)	8.551	130	134752	10.00	ppb(v	-0.02
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.627	95	337498	10.28	ppb(v	-0.04
Spiked Amount 10.000	Range 65 - 128		Recovery	=	102.80%	
Target Compounds						Qvalue
5) Propene	3.957	41	52170	5.38	ppb(v	98
6) Dichlorodifluoromethane	4.018	85	59130	1.70	ppb(v	98
8) Chloromethane	4.165	50	2094	0.19	ppb(v	96
9) Dichlorotetrafluoroethane	4.257	85	4257	0.12	ppb(v	90
11) 1,3-Butadiene	4.654	54	3568	0.37	ppb(v	83
12) n-Butane	4.532	58	4773	2.48	ppb(v#	74
16) Acetonitrile	5.199	41	3437	0.29	ppb(v#	67
21) Acetone	5.431	58	1554048	246.11	ppb(v	94
22) Pentane	5.921	57	3871	1.20	ppb(v	93
25) Isopropyl Alcohol	5.664	45	26933	1.08	ppb(v	91
28) Methylene Chloride	6.325	84	2413	0.19	ppb(v	94
29) Carbon Disulfide	6.612	76	69568	1.74	ppb(v	99
30) Ethanol	4.997	45	28377	4.45	ppb(v	96
34) tert-Butyl Alcohol	6.239	59	38736	1.24	ppb(v#	90
38) 2-Butanone	7.903	72	25275	3.61	ppb(v	95
39) Hexane	8.594	57	12601	0.56	ppb(v#	39
42) Ethyl Acetate	8.631	61	3119	0.64	ppb(v	70
49) Benzene	10.350	78	15547	0.35	ppb(v	94
51) Cyclohexane	10.674	56	3071	0.14	ppb(v#	91
52) 2,3-Dimethylpentane	10.956	71	1463m	0.17	ppb(v	
54) 2,2,4-Trimethylpentane	11.659	57	34901	0.54	ppb(v	90
55) Heptane	11.996	71	6136	0.48	ppb(v	94
66) Toluene	13.966	91	129886	2.55	ppb(v	99
68) 2-Hexanone	14.351	58	7840	0.41	ppb(v	100
71) Tetrachloroethene	15.495	166	2095	0.08	ppb(v	91
73) Octane	15.318	43	15117	0.48	ppb(v	95
77) Ethylbenzene	16.988	91	53836	0.88	ppb(v	96
78) m,p-Xylene	17.232	91	200979	4.09	ppb(v	98
79) Styrene	17.783	104	30375	0.89	ppb(v	99
80) Nonane	18.315	43	20648	0.67	ppb(v	95
81) o-Xylene	17.936	91	89428	1.87	ppb(v	97
88) n-Propylbenzene	19.594	120	5914	0.35	ppb(v	97
90) 4-Ethyltoluene	19.802	105	37680	0.59	ppb(v	98
91) 1,3,5-Trimethylbenzene	19.918	105	36829	0.68	ppb(v	99
94) 1,2,4-Trimethylbenzene	20.475	105	142685	2.65	ppb(v#	63
104) Naphthalene	23.491	128	23640	0.54	ppb(v	95

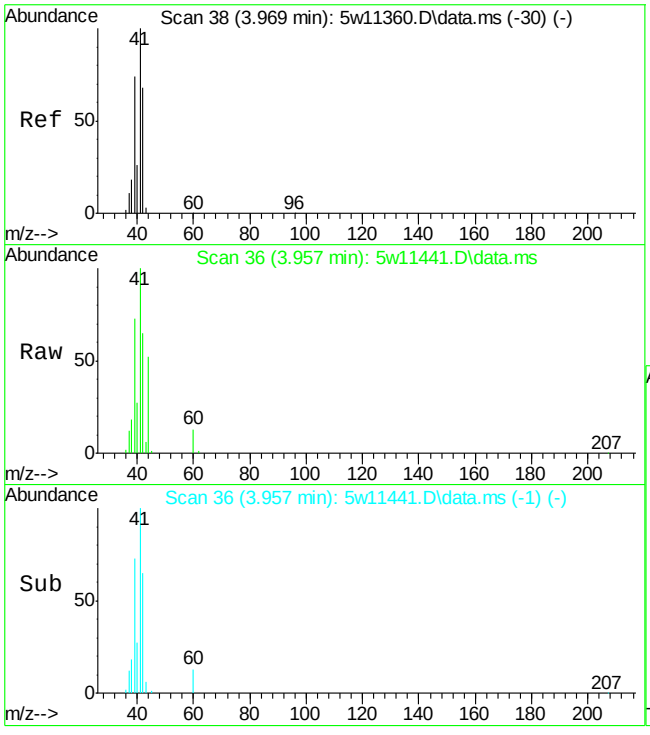
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11441.D
Acq On : 8 May 2015 6:35 pm
Operator : mikel1
Sample : JB94203-4
Misc : MS84855,v5w449,100,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 12 09:33:50 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

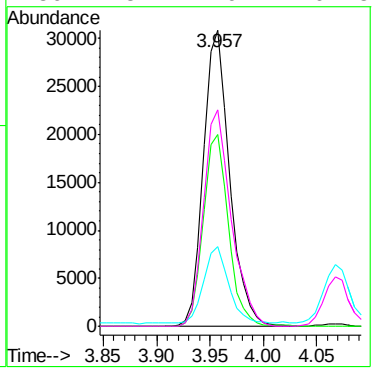


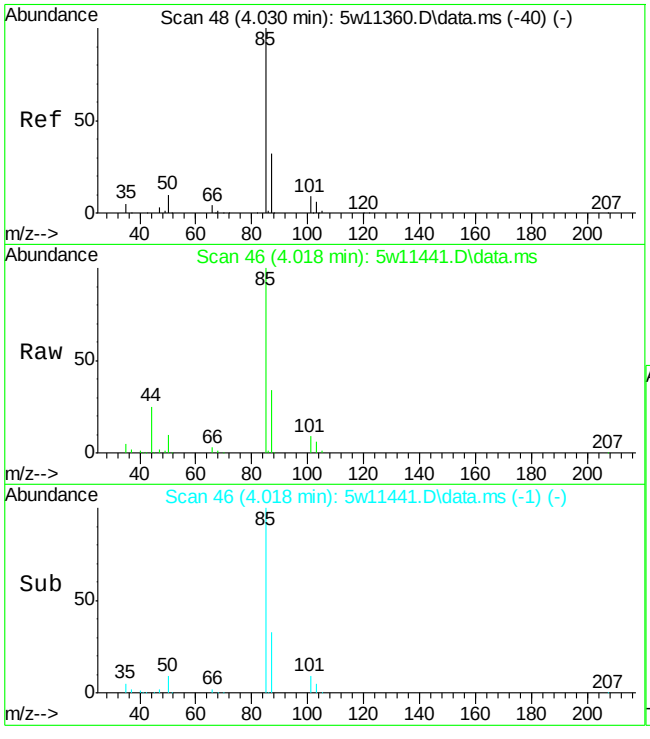


#5
Propene
Concen: 5.38 ppb(v)
RT: 3.957 min Scan# 36
Delta R.T. -0.012 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 41 Resp: 52170

Ion	Ratio	Lower	Upper
41	100		
42	64.7	45.0	83.6
40	26.8	17.9	33.3
39	73.1	49.7	92.3

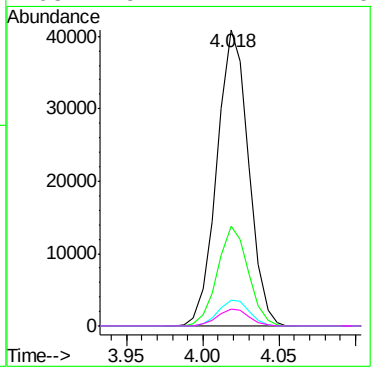


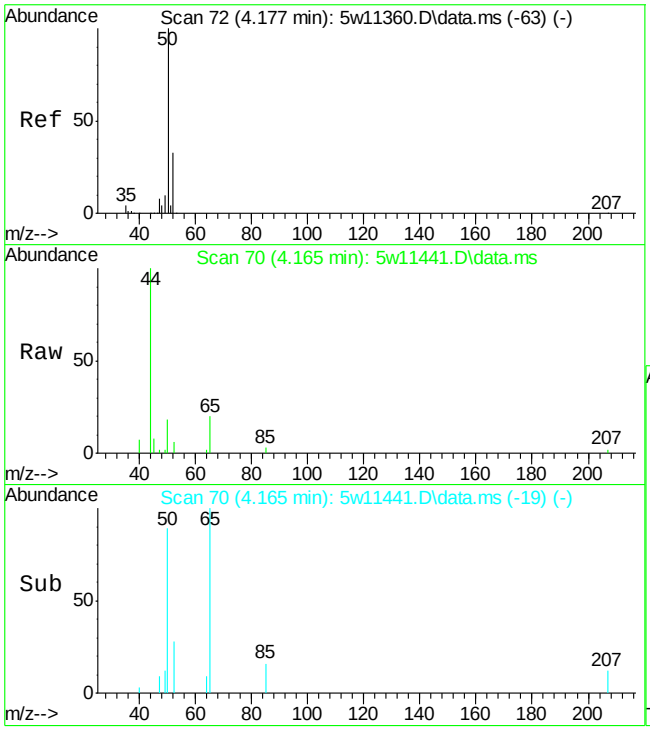


#6
Dichlorodifluoromethane
Concen: 1.70 ppb(v)
RT: 4.018 min Scan# 46
Delta R.T. -0.018 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 85 Resp: 59130

Ion	Ratio	Lower	Upper
85	100		
87	33.7	22.7	42.1
101	8.8	6.0	11.2
103	5.7	4.1	7.5

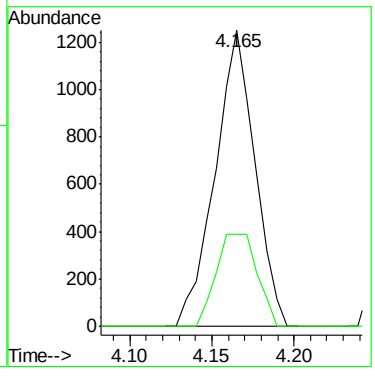


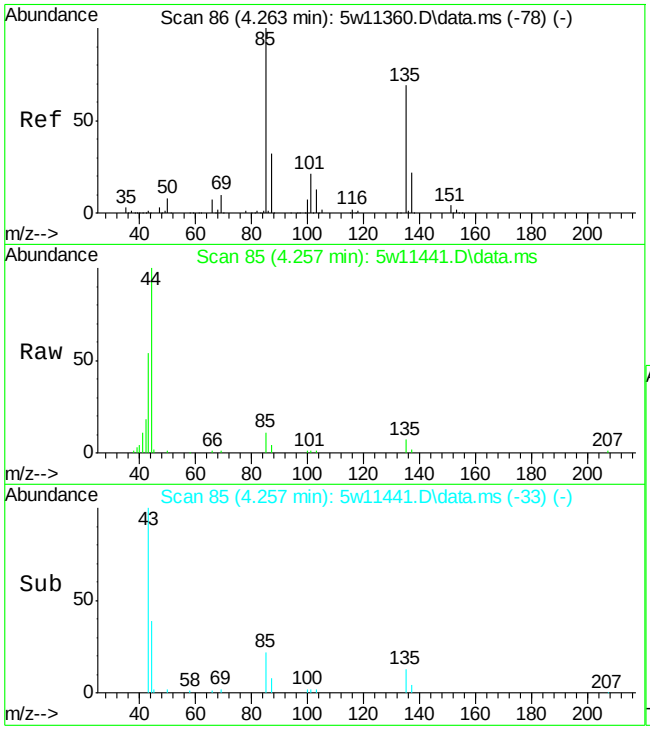


#8
Chloromethane
Concen: 0.19 ppb(v)
RT: 4.165 min Scan# 70
Delta R.T. -0.018 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 50 Resp: 2094

Ion	Ratio	Lower	Upper
50	100		
52	31.1	23.2	43.0

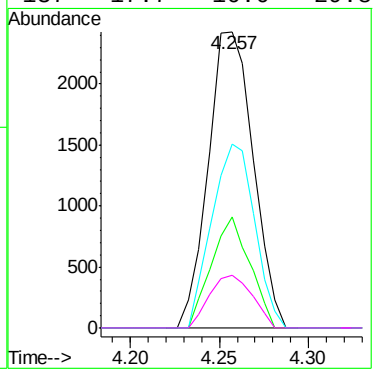


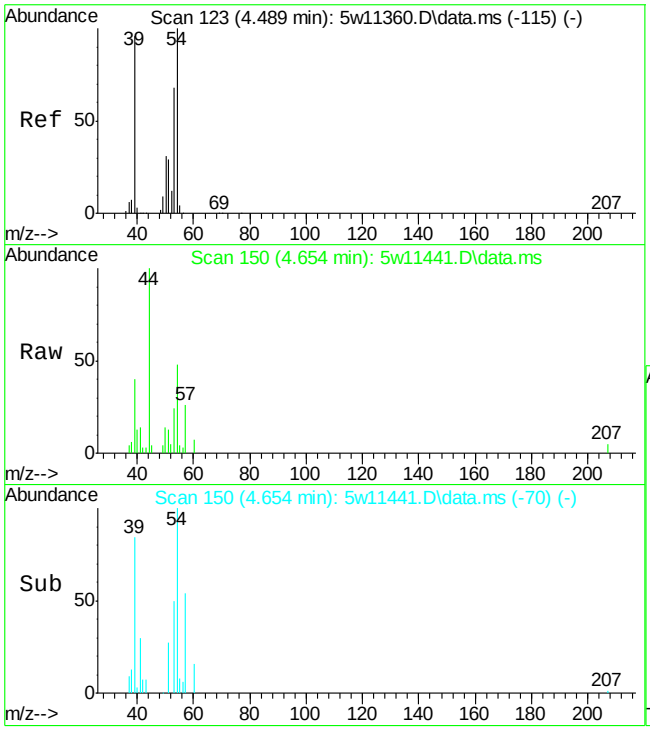


#9
Dichlorotetrafluoroethane
Concen: 0.12 ppb(v)
RT: 4.257 min Scan# 85
Delta R.T. -0.012 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 85 Resp: 4257

Ion	Ratio	Lower	Upper
85	100		
87	37.4	22.9	42.5
135	62.2	49.2	91.4
137	17.7	16.0	29.8

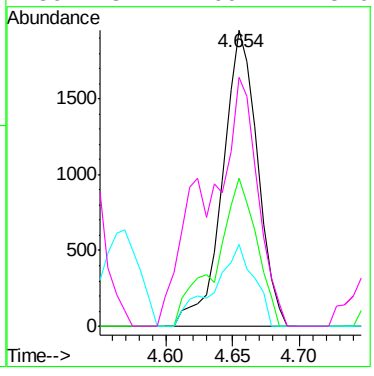


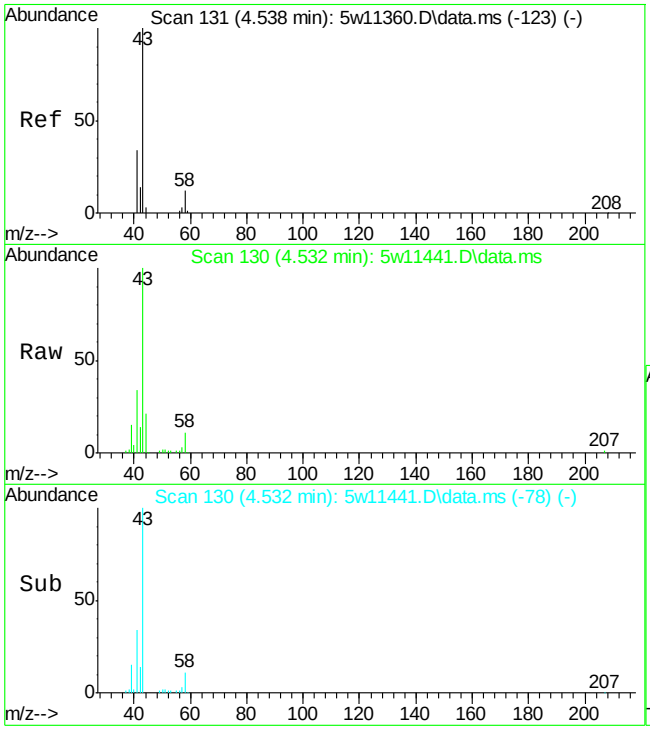


#11
1,3-Butadiene
Concen: 0.37 ppb(v)
RT: 4.654 min Scan# 150
Delta R.T. 0.159 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 54 Resp: 3568

Ion	Ratio	Lower	Upper
54	100		
53	49.8	49.0	91.0
51	27.5	20.8	38.6
39	84.1	69.2	128.6

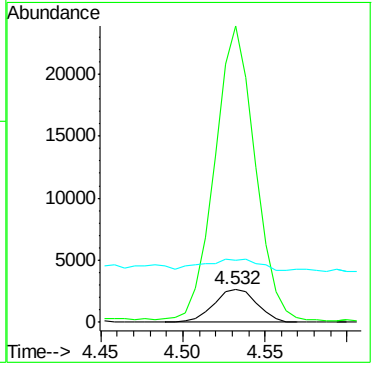


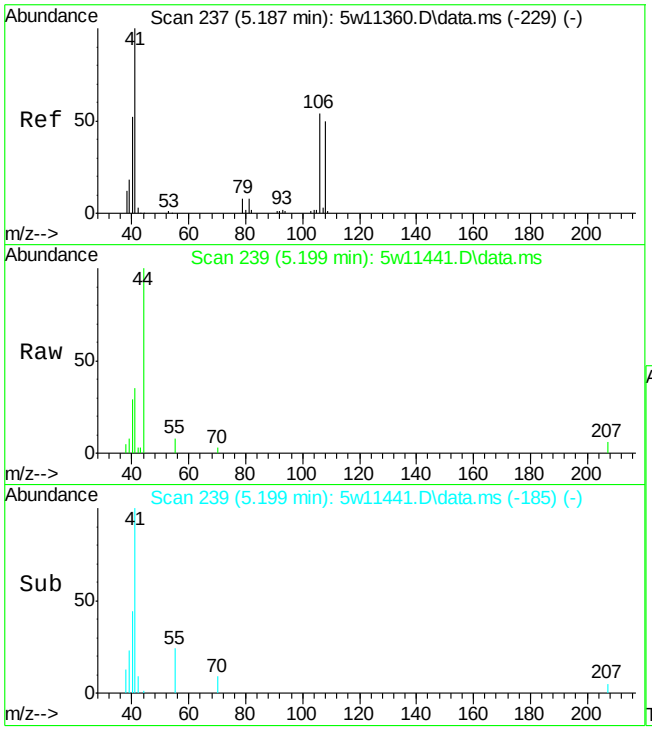


#12
n-Butane
Concen: 2.48 ppb(v)
RT: 4.532 min Scan# 130
Delta R.T. -0.012 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 58 Resp: 4773

Ion	Ratio	Lower	Upper
58	100		
43	895.7	583.8	1084.2
44	186.8	25.6	47.6#

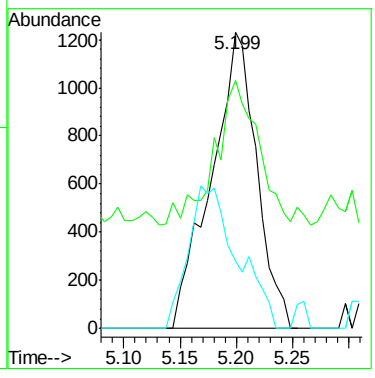


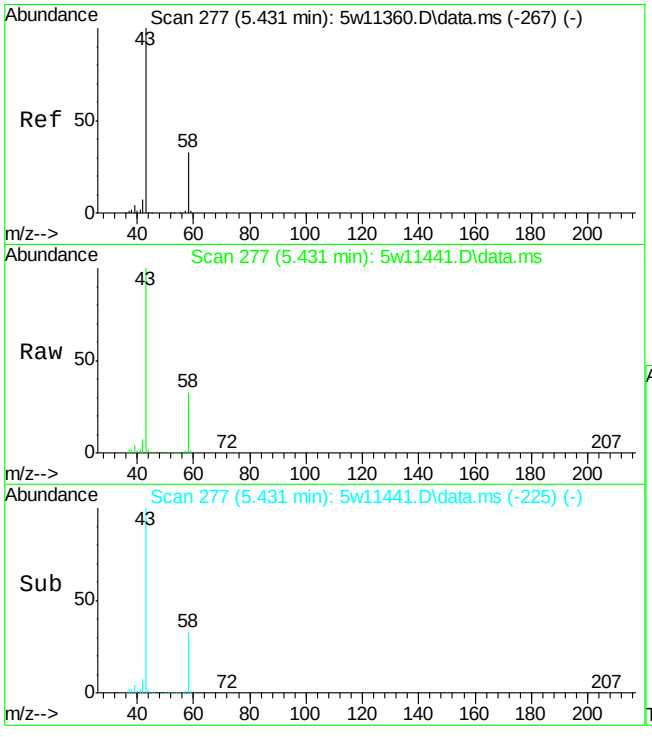


#16
Acetonitrile
Concen: 0.29 ppb(v)
RT: 5.199 min Scan# 239
Delta R.T. -0.000 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 41 Resp: 3437

Ion	Ratio	Lower	Upper
41	100		
40	83.8	37.7	69.9#
39	22.6	13.7	25.5

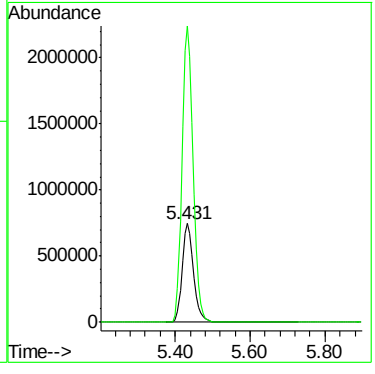


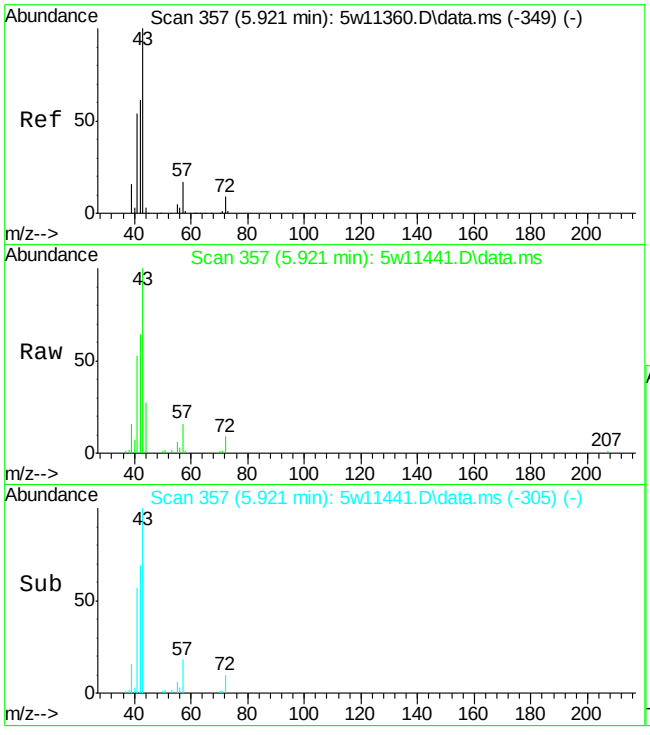


#21
Acetone
Concen: 246.11 ppb(v)
RT: 5.431 min Scan# 277
Delta R.T. -0.012 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 58 Resp: 1554048

Ion	Ratio	Lower	Upper
58	100		
43	300.0	217.8	404.6

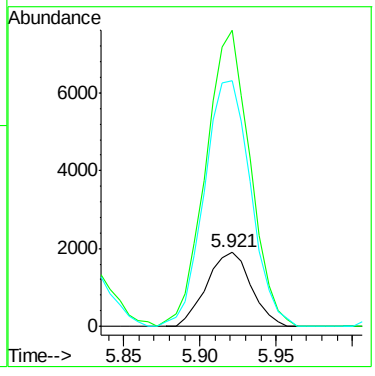


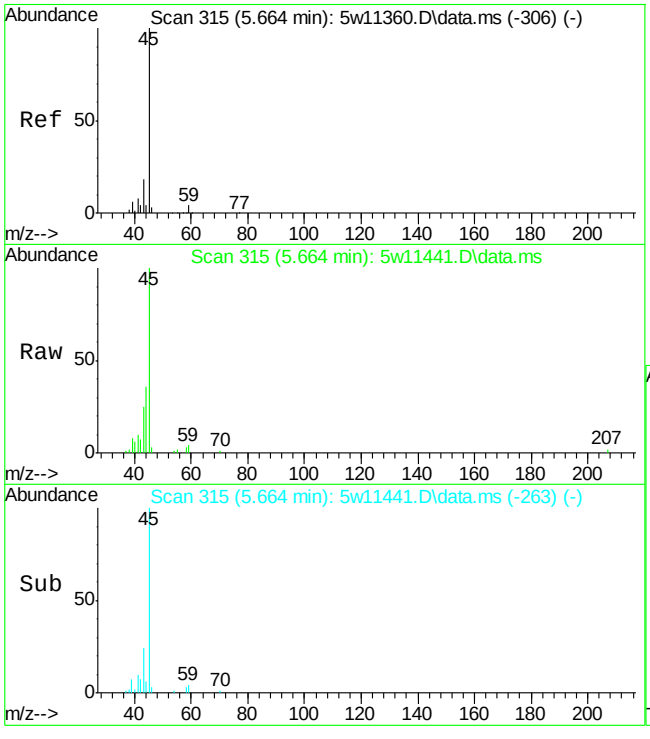


#22
Pentane
Concen: 1.20 ppb(v)
RT: 5.921 min Scan# 357
Delta R.T. -0.012 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 57 Resp: 3871

Ion	Ratio	Lower	Upper
57	100		
42	398.8	262.5	487.5
41	330.4	225.7	419.1

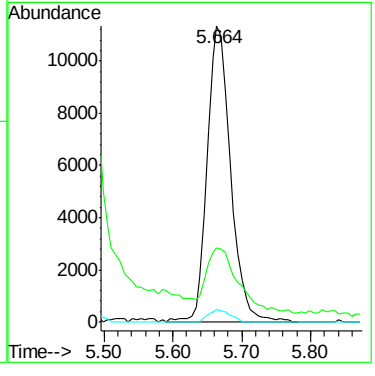


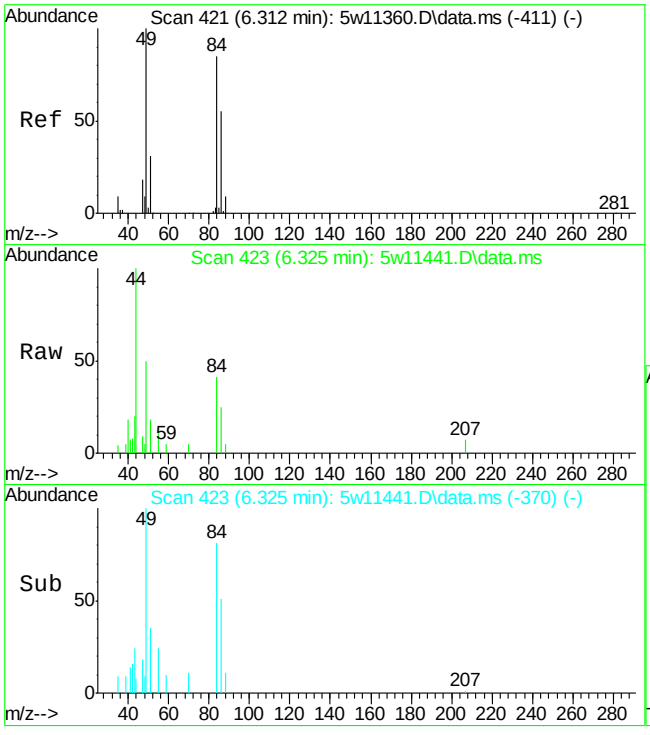


#25
Isopropyl Alcohol
Concen: 1.08 ppb(v)
RT: 5.664 min Scan# 315
Delta R.T. -0.012 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 45 Resp: 26933

Ion	Ratio	Lower	Upper
45	100		
43	25.1	14.0	26.0
59	4.0	3.5	6.5

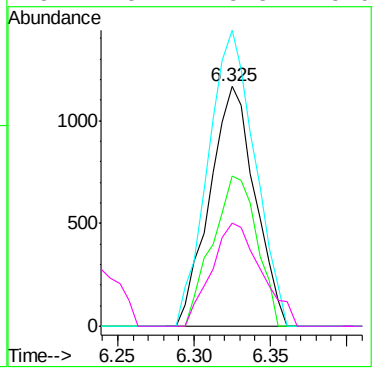


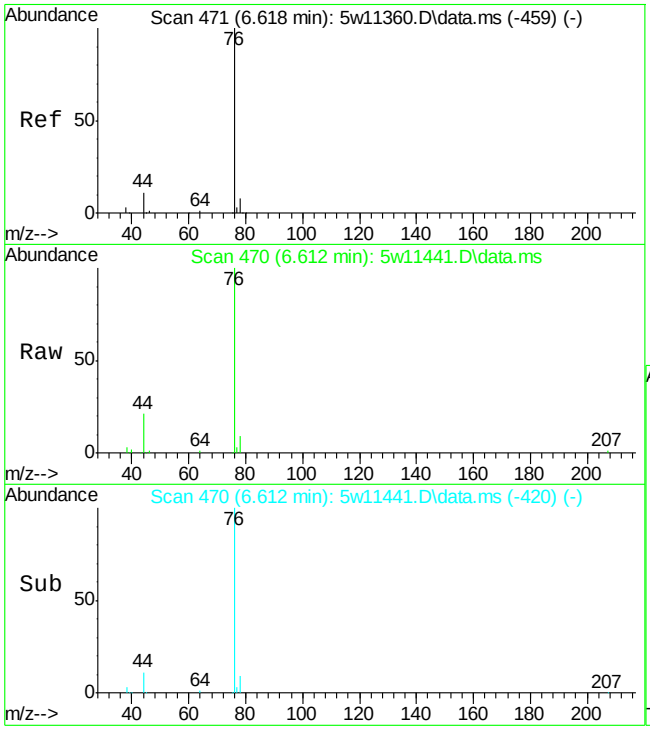


#28
Methylene Chloride
Concen: 0.19 ppb(v)
RT: 6.325 min Scan# 423
Delta R.T. -0.006 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 84 Resp: 2413

Ion	Ratio	Lower	Upper
84	100		
86	62.4	44.7	83.1
49	123.2	80.9	150.3
51	43.1	25.8	48.0

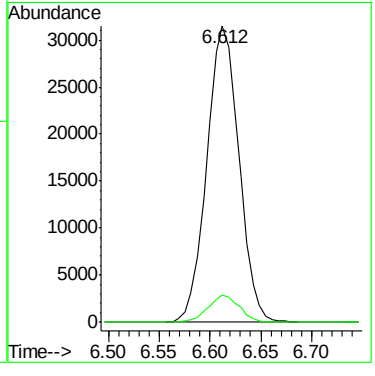


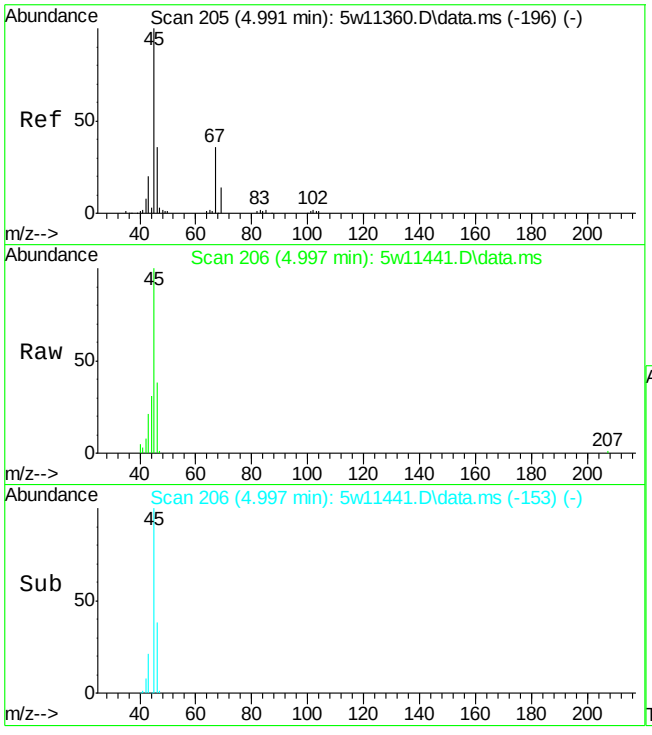


#29
Carbon Disulfide
Concen: 1.74 ppb(v)
RT: 6.612 min Scan# 470
Delta R.T. -0.025 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 76 Resp: 69568

Ion	Ratio	Lower	Upper
76	100		
78	9.2	6.6	12.4

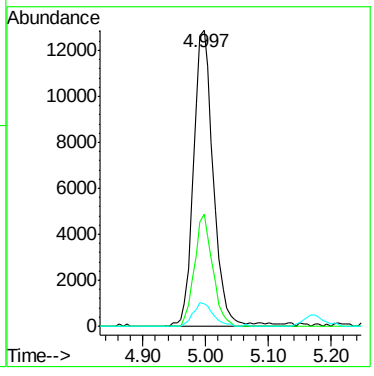


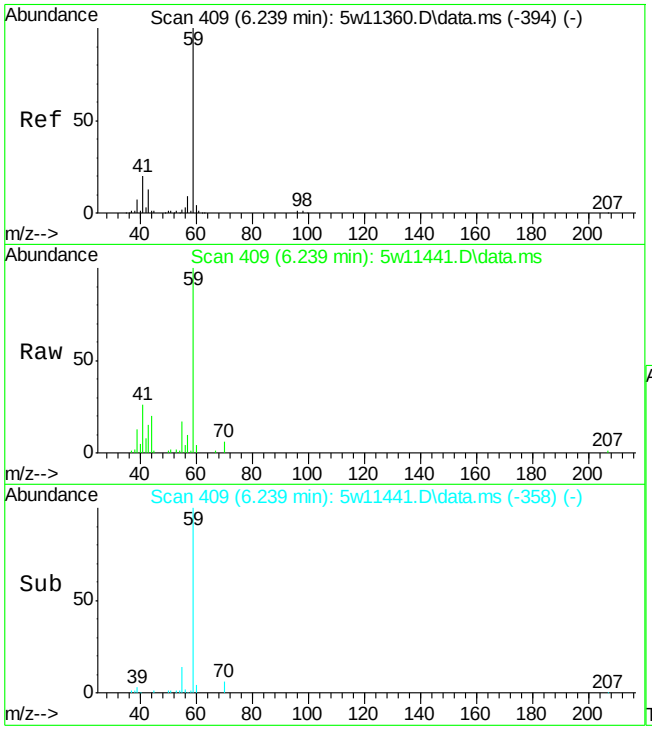


#30
Ethanol
Concen: 4.45 ppb(v)
RT: 4.997 min Scan# 206
Delta R.T. -0.006 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 45 Resp: 28377

Ion	Ratio	Lower	Upper
45	100		
46	37.9	24.6	45.6
42	7.7	5.5	10.1

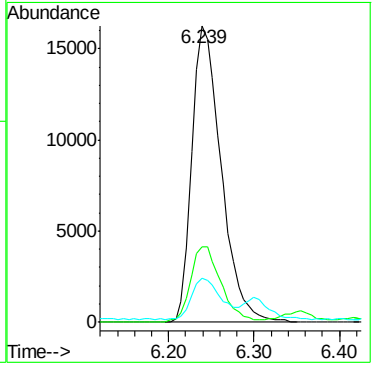


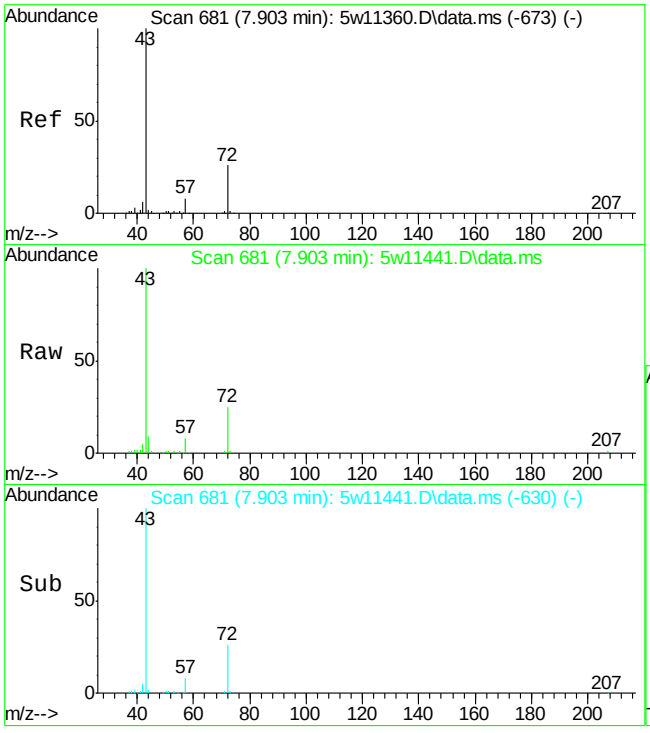


#34
tert-Butyl Alcohol
Concen: 1.24 ppb(v)
RT: 6.239 min Scan# 409
Delta R.T. -0.018 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 59 Resp: 38736

Ion	Ratio	Lower	Upper
59	100		
41	25.6	13.4	24.8#
43	14.9	9.3	17.3

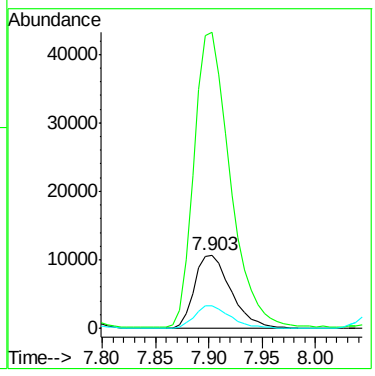


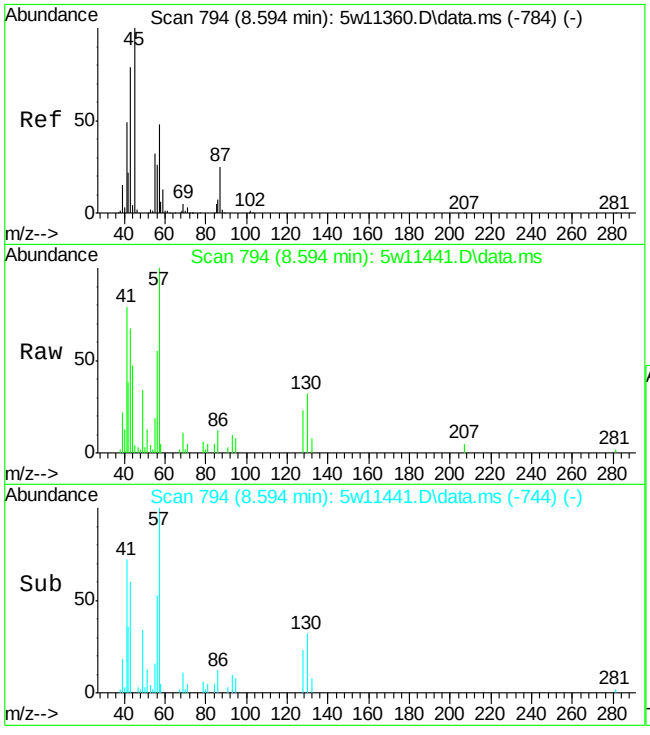


#38
2-Butanone
Concen: 3.61 ppb(v)
RT: 7.903 min Scan# 681
Delta R.T. -0.018 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 72 Resp: 25275

Ion	Ratio	Lower	Upper
72	100		
43	404.4	274.1	508.9
57	30.7	22.1	41.1

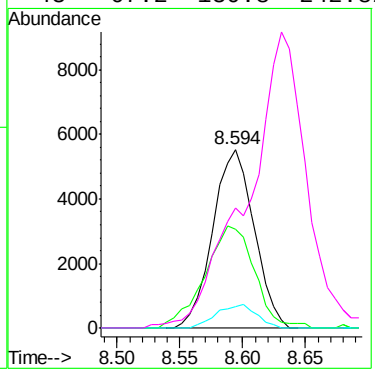


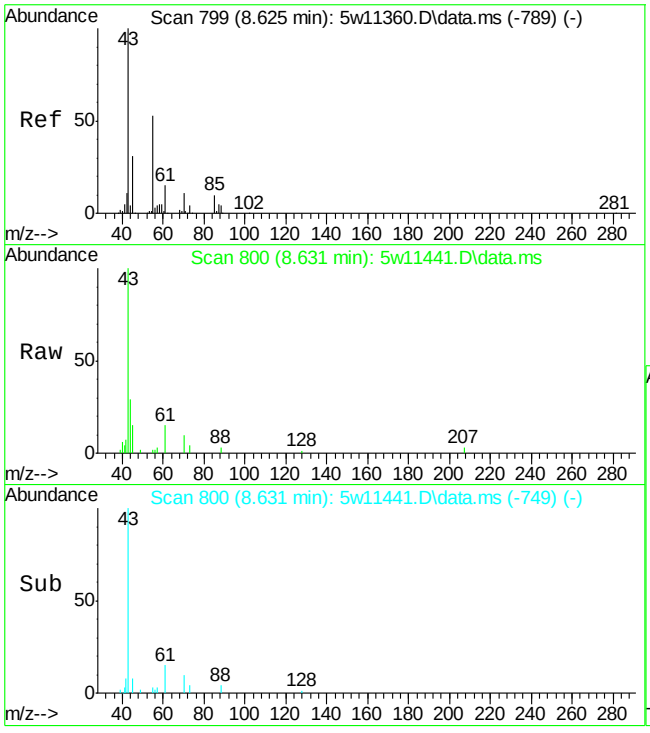


#39
Hexane
Concen: 0.56 ppb(v)
RT: 8.594 min Scan# 794
Delta R.T. -0.024 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 57 Resp: 12601

Ion	Ratio	Lower	Upper
57	100		
56	55.3	37.4	69.4
86	12.1	10.4	19.2
43	67.2	130.8	242.8#

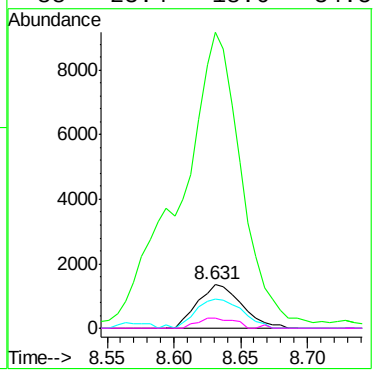


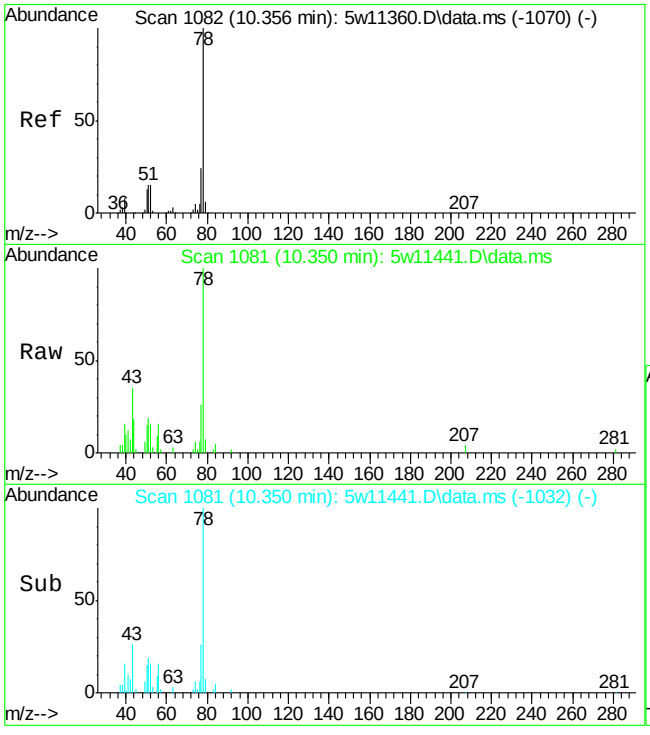


#42
Ethyl Acetate
Concen: 0.64 ppb(v)
RT: 8.631 min Scan# 800
Delta R.T. -0.018 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 61 Resp: 3119

Ion	Ratio	Lower	Upper
61	100		
43	668.7	556.0	1032.6
70	66.0	50.3	93.3
88	23.4	18.6	34.5

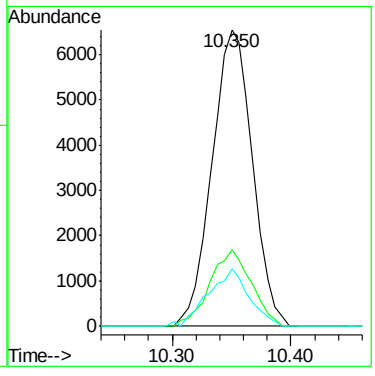


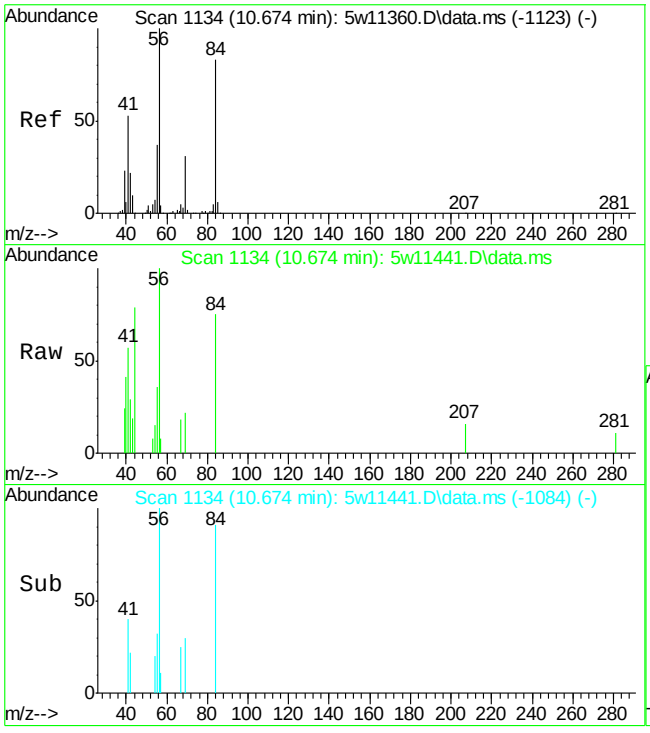


#49
Benzene
Concen: 0.35 ppb(v)
RT: 10.350 min Scan# 1081
Delta R.T. -0.030 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 78 Resp: 15547

Ion	Ratio	Lower	Upper
78	100		
77	25.7	16.6	30.8
51	19.3	10.6	19.6

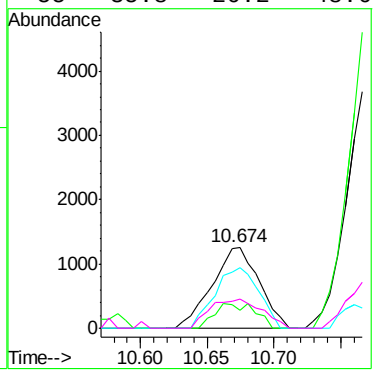


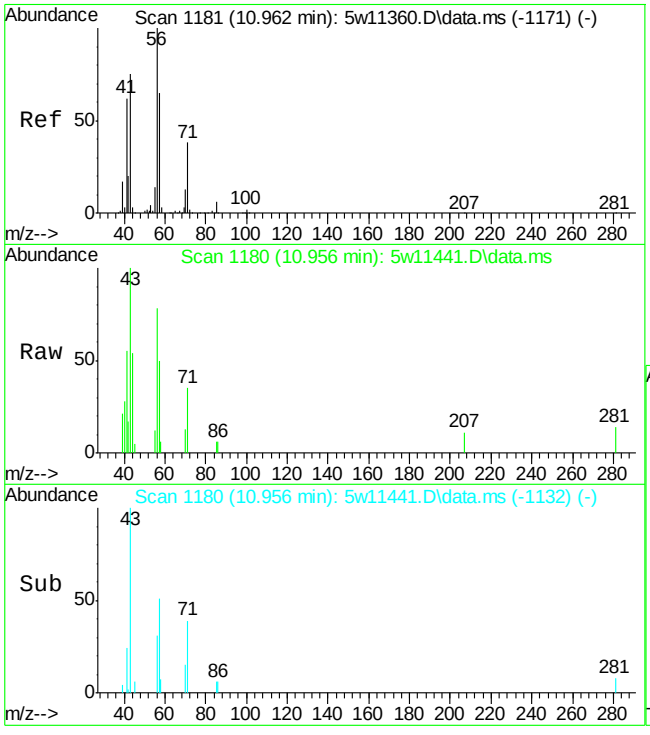


#51
Cyclohexane
Concen: 0.14 ppb(v)
RT: 10.674 min Scan# 1134
Delta R.T. -0.024 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 56 Resp: 3071

Ion	Ratio	Lower	Upper
56	100		
69	21.7	22.1	41.1#
84	74.9	57.8	107.4
55	35.8	26.2	48.6

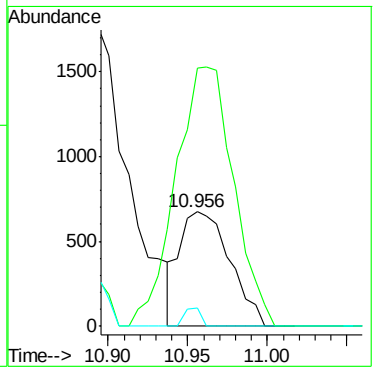


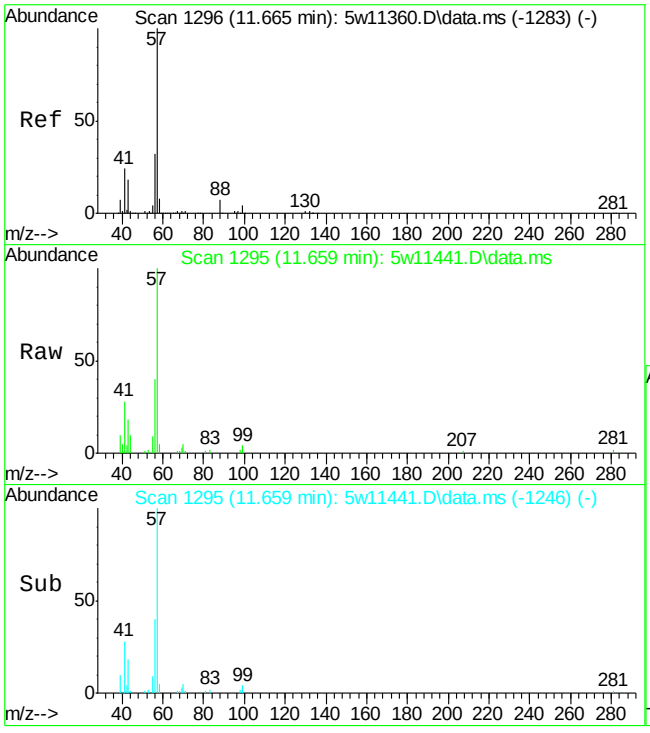


#52
2,3-Dimethylpentane
Concen: 0.17 ppb(v) m
RT: 10.956 min Scan# 1180
Delta R.T. -0.037 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 71 Resp: 1463

Ion	Ratio	Lower	Upper
71	100		
56	225.9	183.3	340.5
85	16.0	10.8	20.0

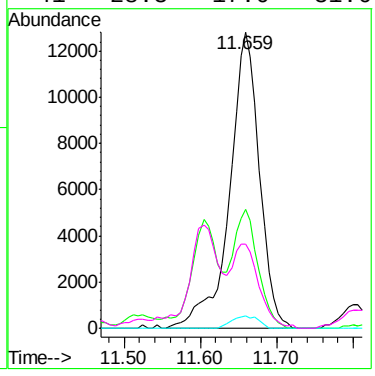


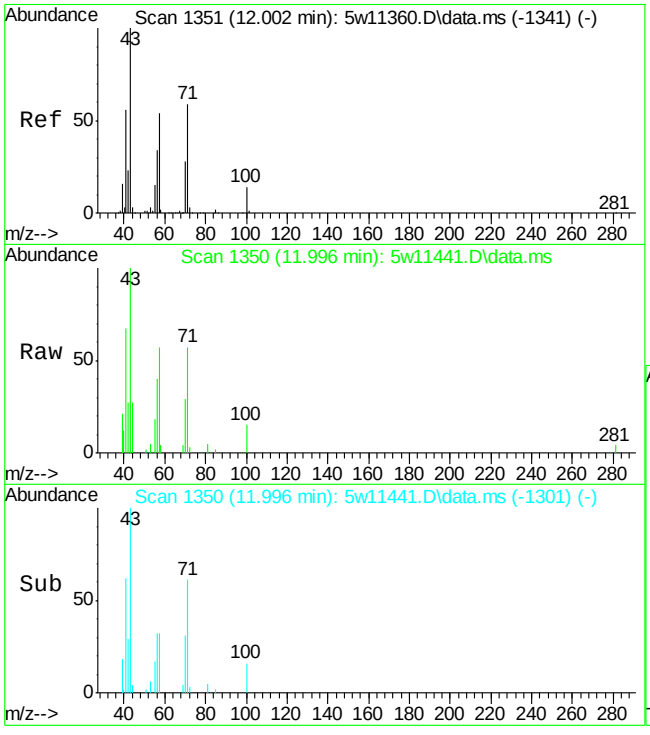


#54
2,2,4-Trimethylpentane
Concen: 0.54 ppb(v)
RT: 11.659 min Scan# 1295
Delta R.T. -0.030 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 57 Resp: 34901

Ion	Ratio	Lower	Upper
57	100		
56	40.1	23.2	43.0
99	4.3	3.4	6.4
41	28.3	17.0	31.6

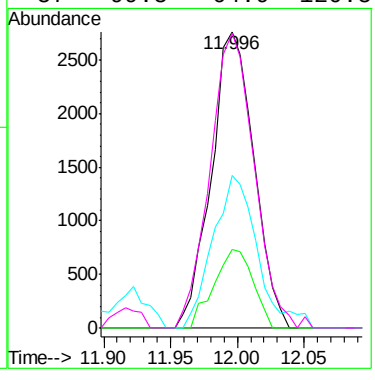


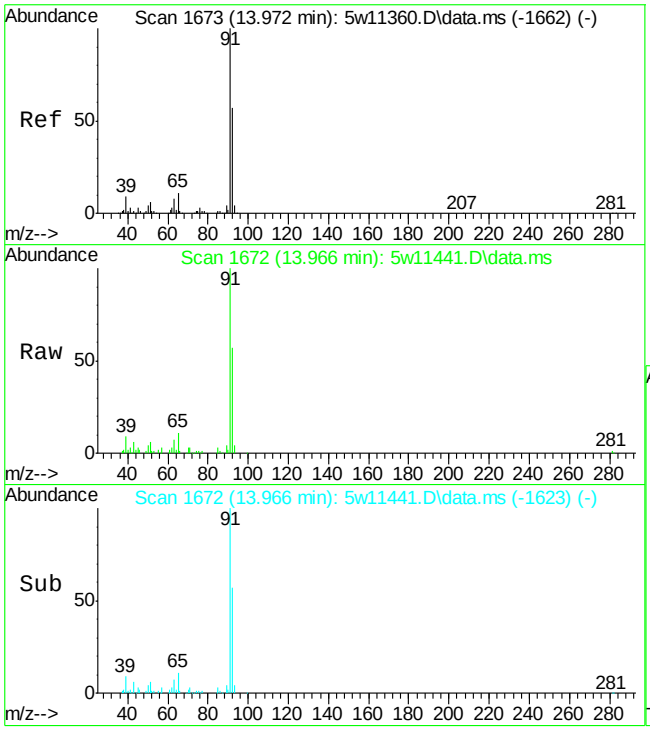


#55
Heptane
Concen: 0.48 ppb(v)
RT: 11.996 min Scan# 1350
Delta R.T. -0.030 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 71 Resp: 6136

Ion	Ratio	Lower	Upper
71	100		
100	26.5	18.3	33.9
70	51.5	33.5	62.1
57	99.5	64.9	120.5

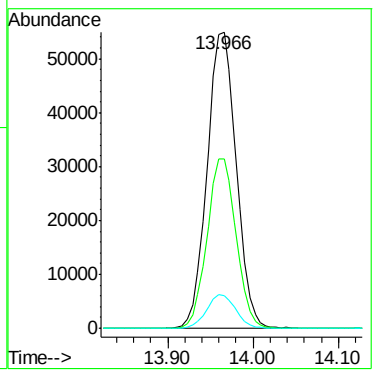


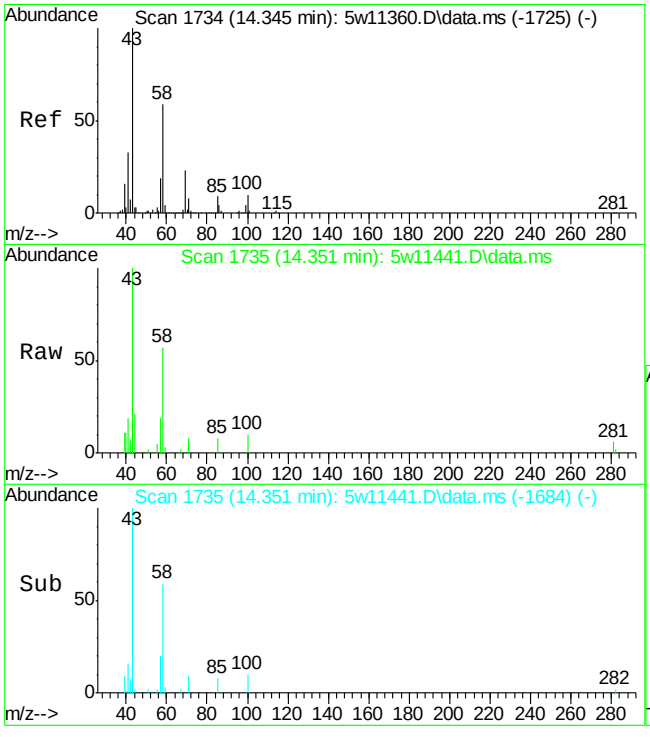


#66
Toluene
Concen: 2.55 ppb(v)
RT: 13.966 min Scan# 1672
Delta R.T. -0.030 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 91 Resp: 129886

Ion	Ratio	Lower	Upper
91	100		
92	57.1	40.3	74.9
65	11.1	7.6	14.0

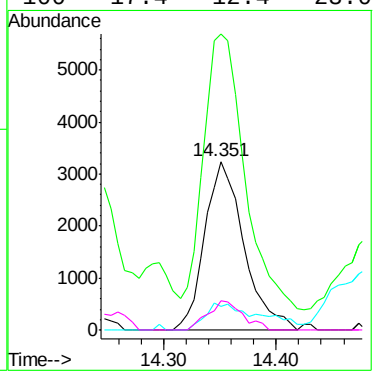


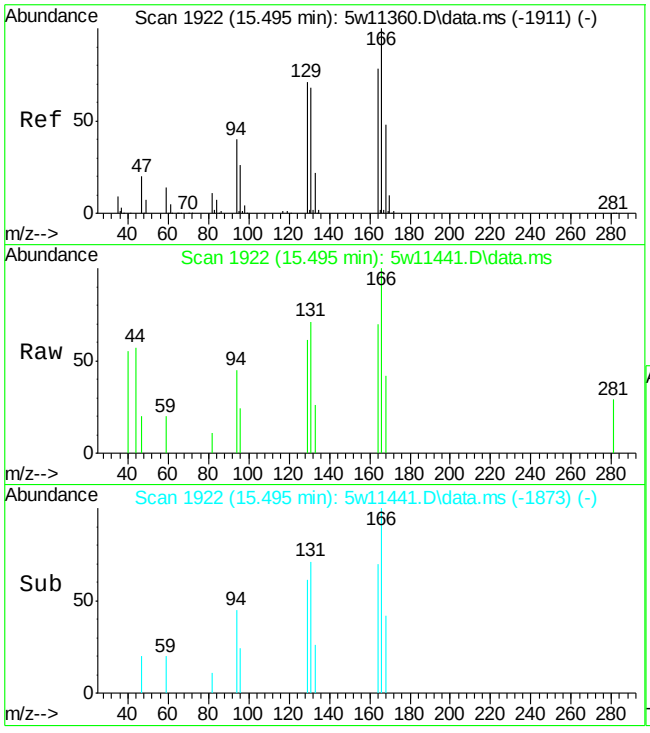


#68
2-Hexanone
Concen: 0.41 ppb(v)
RT: 14.351 min Scan# 1735
Delta R.T. -0.018 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 58 Resp: 7840

Ion	Ratio	Lower	Upper
58	100		
43	175.7	122.7	227.9
85	14.3	10.6	19.6
100	17.4	12.4	23.0

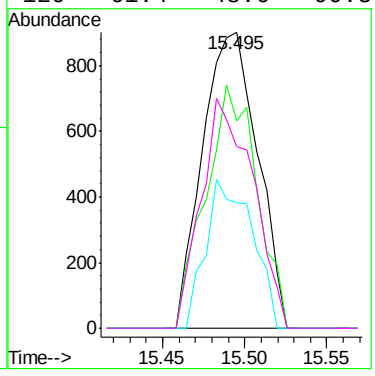


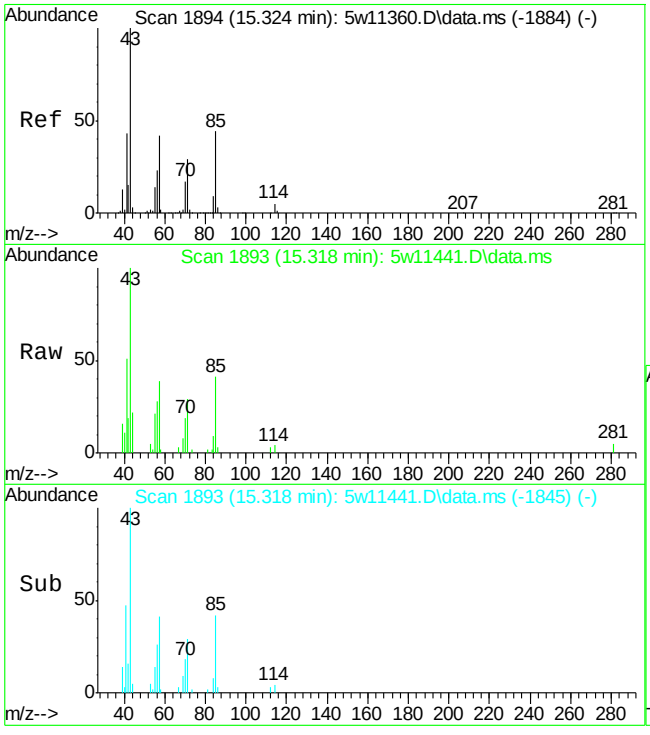


#71
Tetrachloroethene
Concen: 0.08 ppb(v)
RT: 15.495 min Scan# 1922
Delta R.T. -0.030 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion:166 Resp: 2095

Ion	Ratio	Lower	Upper
166	100		
164	70.0	54.3	100.9
168	42.4	33.9	62.9
129	61.4	48.6	90.3

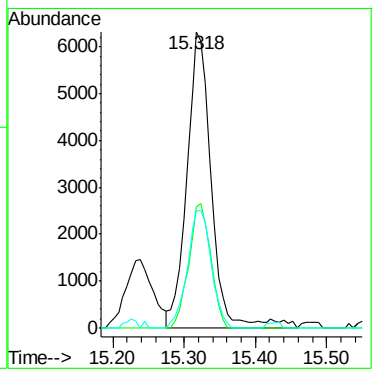


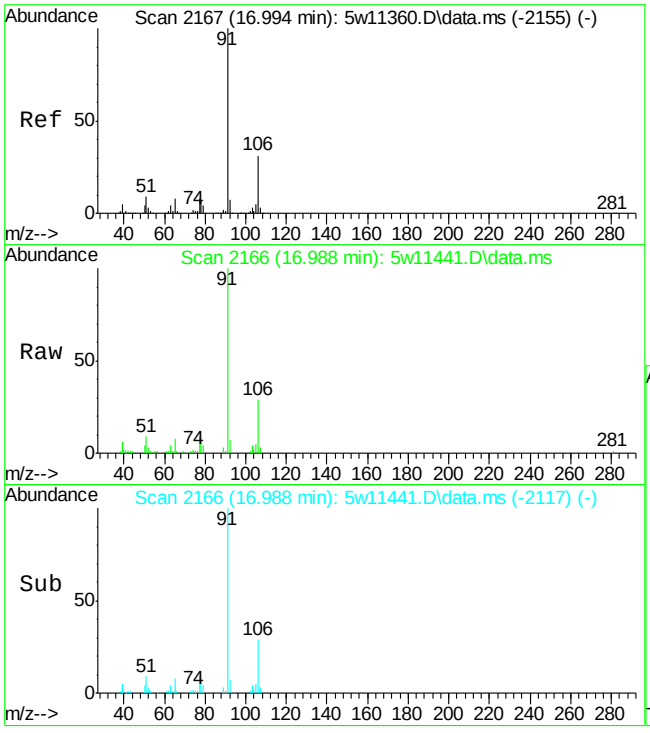


#73
Octane
Concen: 0.48 ppb(v)
RT: 15.318 min Scan# 1893
Delta R.T. -0.037 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 43 Resp: 15117

Ion	Ratio	Lower	Upper
43	100		
85	41.0	31.6	58.8
57	39.3	29.5	54.7

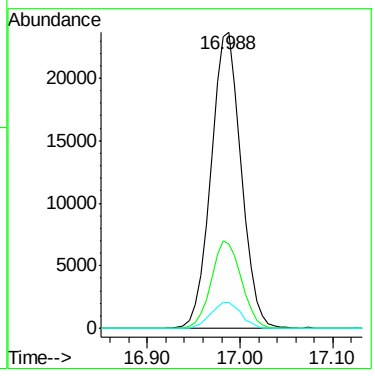


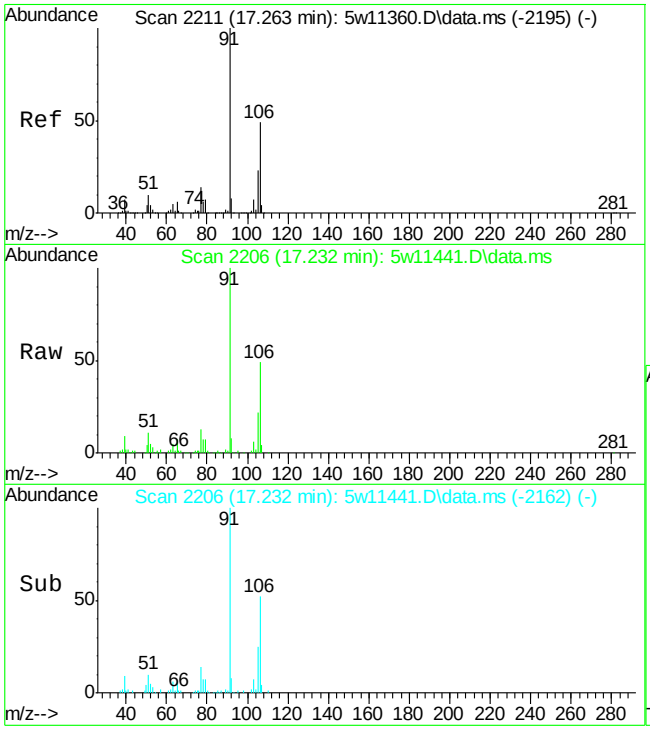


#77
Ethylbenzene
Concen: 0.88 ppb(v)
RT: 16.988 min Scan# 2166
Delta R.T. -0.030 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 91 Resp: 53836

Ion	Ratio	Lower	Upper
91	100		
106	28.5	21.9	40.7
77	8.6	6.0	11.2

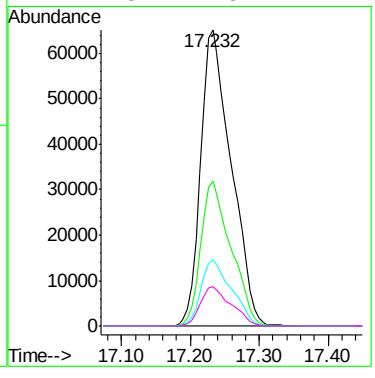


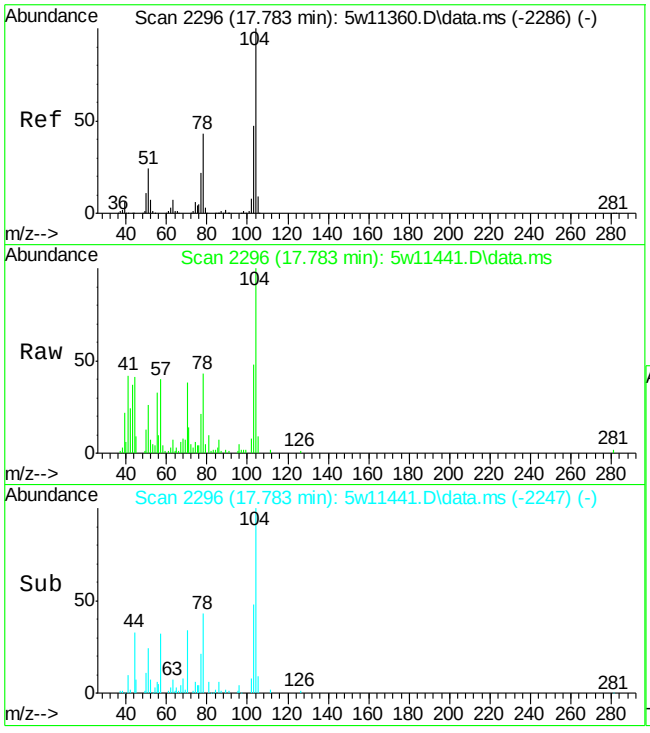


#78
m,p-Xylene
Concen: 4.09 ppb(v)
RT: 17.232 min Scan# 2206
Delta R.T. -0.061 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 91 Resp: 200979

Ion	Ratio	Lower	Upper
91	100		
106	48.7	35.1	65.1
105	22.2	16.0	29.8
77	13.4	9.4	17.4

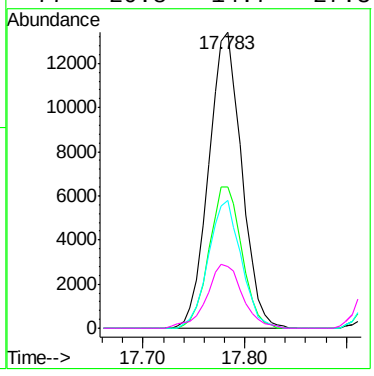


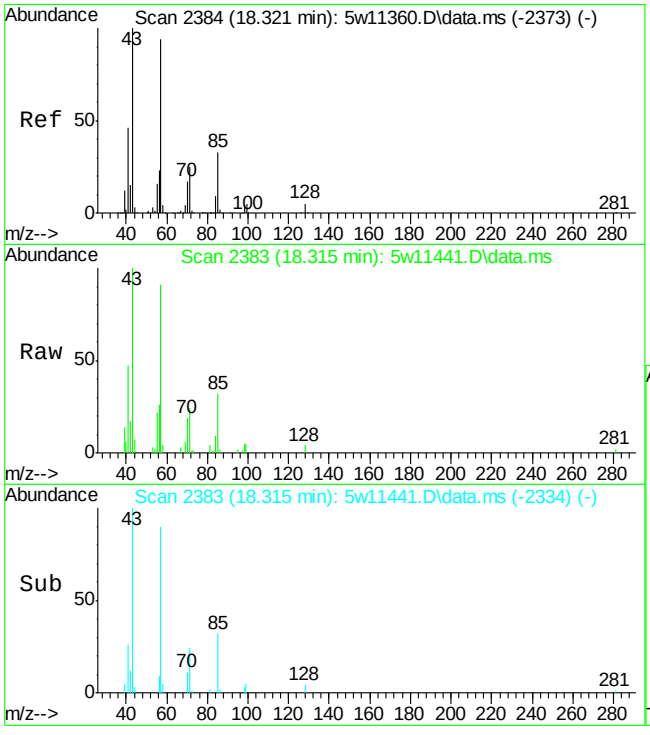


#79
Styrene
Concen: 0.89 ppb(v)
RT: 17.783 min Scan# 2296
Delta R.T. -0.030 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion:104 Resp: 30375

Ion	Ratio	Lower	Upper
104	100		
103	47.8	33.2	61.6
78	43.2	29.1	54.1
77	20.8	14.7	27.3

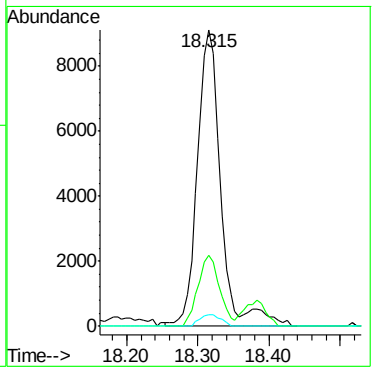


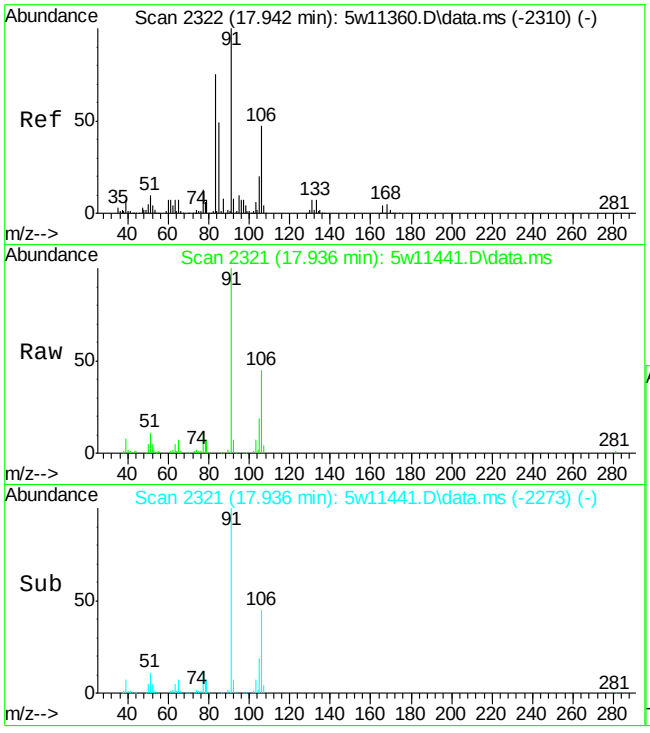


#80
Nonane
Concen: 0.67 ppb(v)
RT: 18.315 min Scan# 2383
Delta R.T. -0.030 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 43 Resp: 20648

Ion	Ratio	Lower	Upper
43	100		
71	23.9	18.4	34.2
128	3.8	3.6	6.8

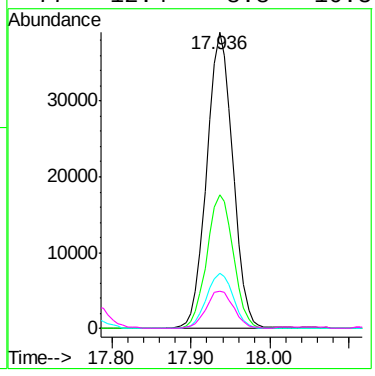


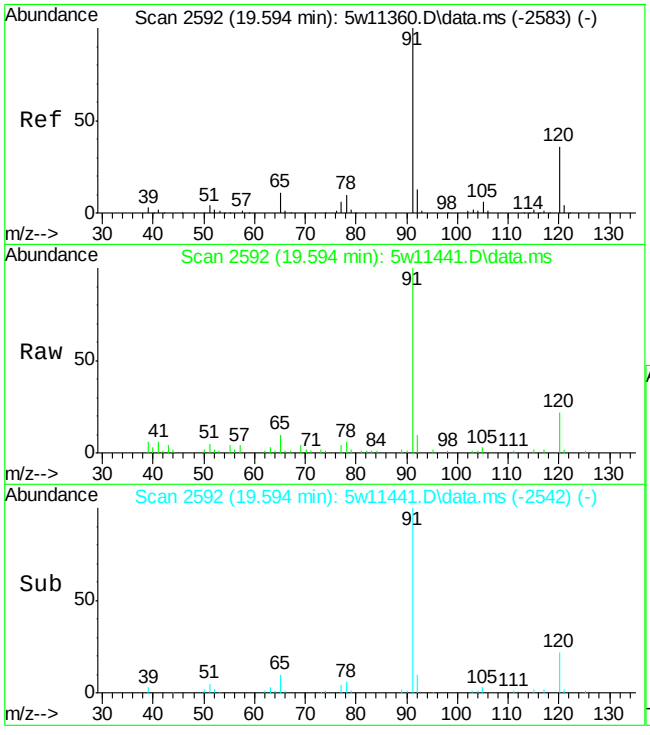


#81
o-Xylene
Concen: 1.87 ppb(v)
RT: 17.936 min Scan# 2321
Delta R.T. -0.037 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion: 91 Resp: 89428

Ion	Ratio	Lower	Upper
91	100		
106	45.1	33.5	62.1
105	18.7	13.4	24.8
77	12.4	8.8	16.3

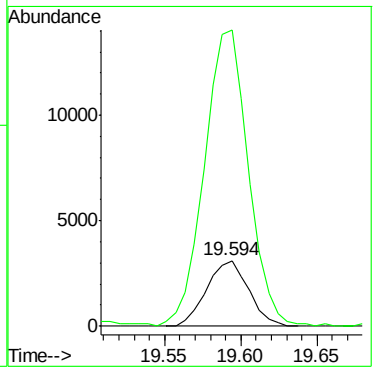


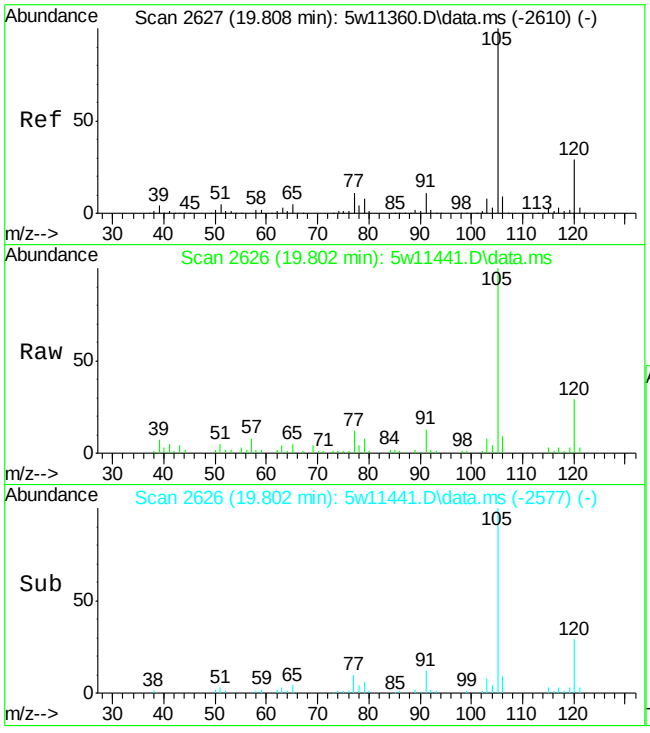


#88
n-Propylbenzene
Concen: 0.35 ppb(v)
RT: 19.594 min Scan# 2592
Delta R.T. -0.024 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion:120 Resp: 5914

Ion	Ratio	Lower	Upper
120	100		
91	452.5	323.0	599.8

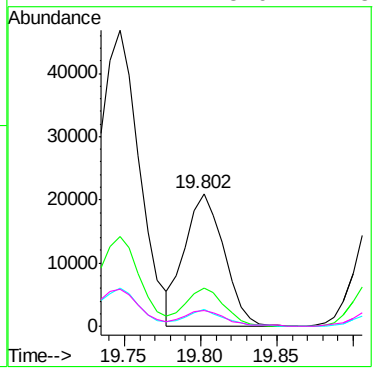


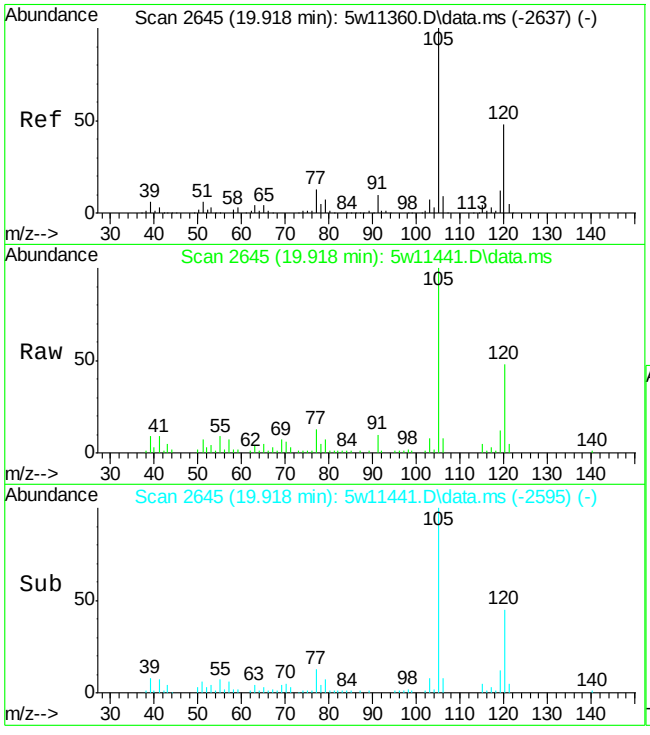


#90
4-Ethyltoluene
Concen: 0.59 ppb(v)
RT: 19.802 min Scan# 2626
Delta R.T. -0.030 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion:105 Resp: 37680

Ion	Ratio	Lower	Upper
105	100		
120	29.0	20.6	38.2
91	12.7	7.6	14.0
77	12.2	8.0	14.8

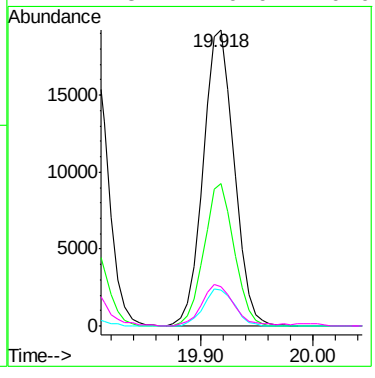


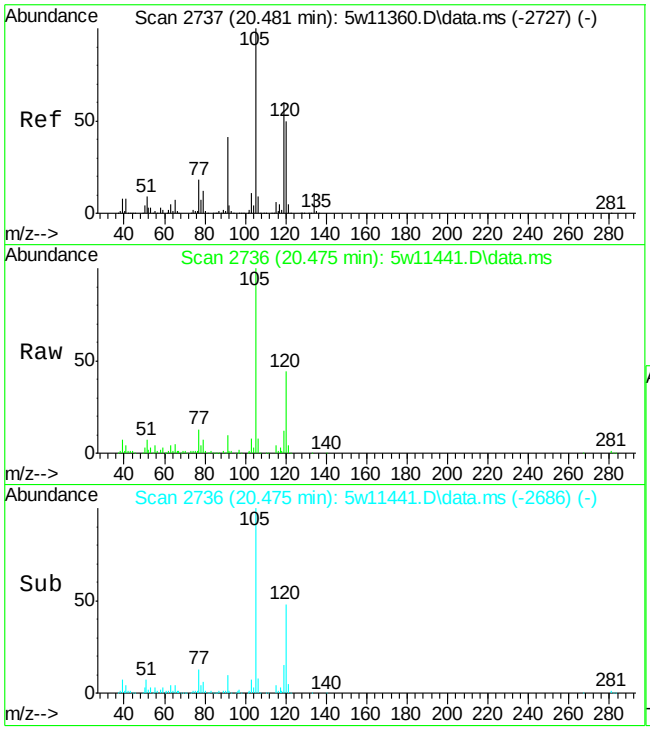


#91
1,3,5-Trimethylbenzene
Concen: 0.68 ppb(v)
RT: 19.918 min Scan# 2645
Delta R.T. -0.024 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion:105 Resp: 36829

Ion	Ratio	Lower	Upper
105	100		
120	48.1	34.2	63.4
119	12.3	8.8	16.4
77	13.4	9.0	16.6

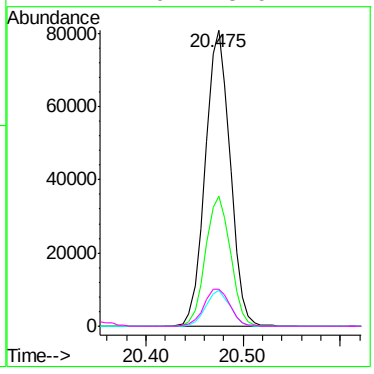


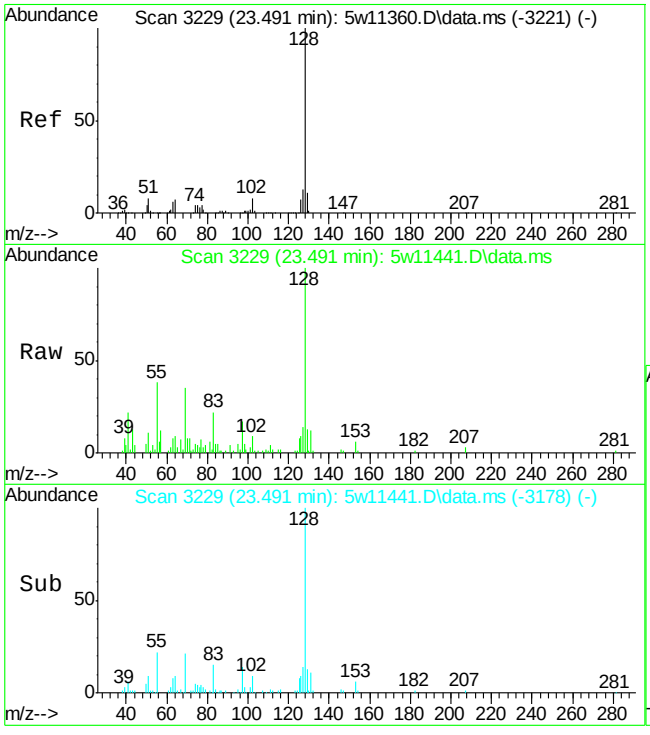


#94
1,2,4-Trimethylbenzene
Concen: 2.65 ppb(v)
RT: 20.475 min Scan# 2736
Delta R.T. -0.024 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion:105 Resp: 142685

Ion	Ratio	Lower	Upper
105	100		
120	44.1	35.0	65.0
119	12.3	45.2	84.0#
77	12.6	13.0	24.2#

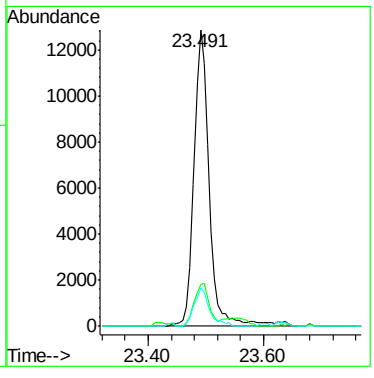




#104
Naphthalene
Concen: 0.54 ppb(v)
RT: 23.491 min Scan# 3229
Delta R.T. -0.018 min
Lab File: 5w11441.D
Acq: 8 May 2015 6:35 pm

Tgt Ion:128 Resp: 23640

Ion	Ratio	Lower	Upper
128	100		
127	14.1	8.8	16.4
129	13.1	7.6	14.2



Manual Integration Approval Summary

Sample Number:	JB94203-4	**Method:**	TO-15
Lab FileID:	5W11441.D	**Analyst approved:**	05/12/15 10:46 Michael Lee
Injection Time:	05/08/15 18:35	**Supervisor approved:**	05/12/15 13:00 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
2,3-Dimethylpentane	565-59-3		10.96	Split peak

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11473.D
Acq On : 9 May 2015 8:56 pm
Operator : mikel1
Sample : JB94203-4
Misc : MS84855,v5w450,10,,,,1.45
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 12 08:13:03 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

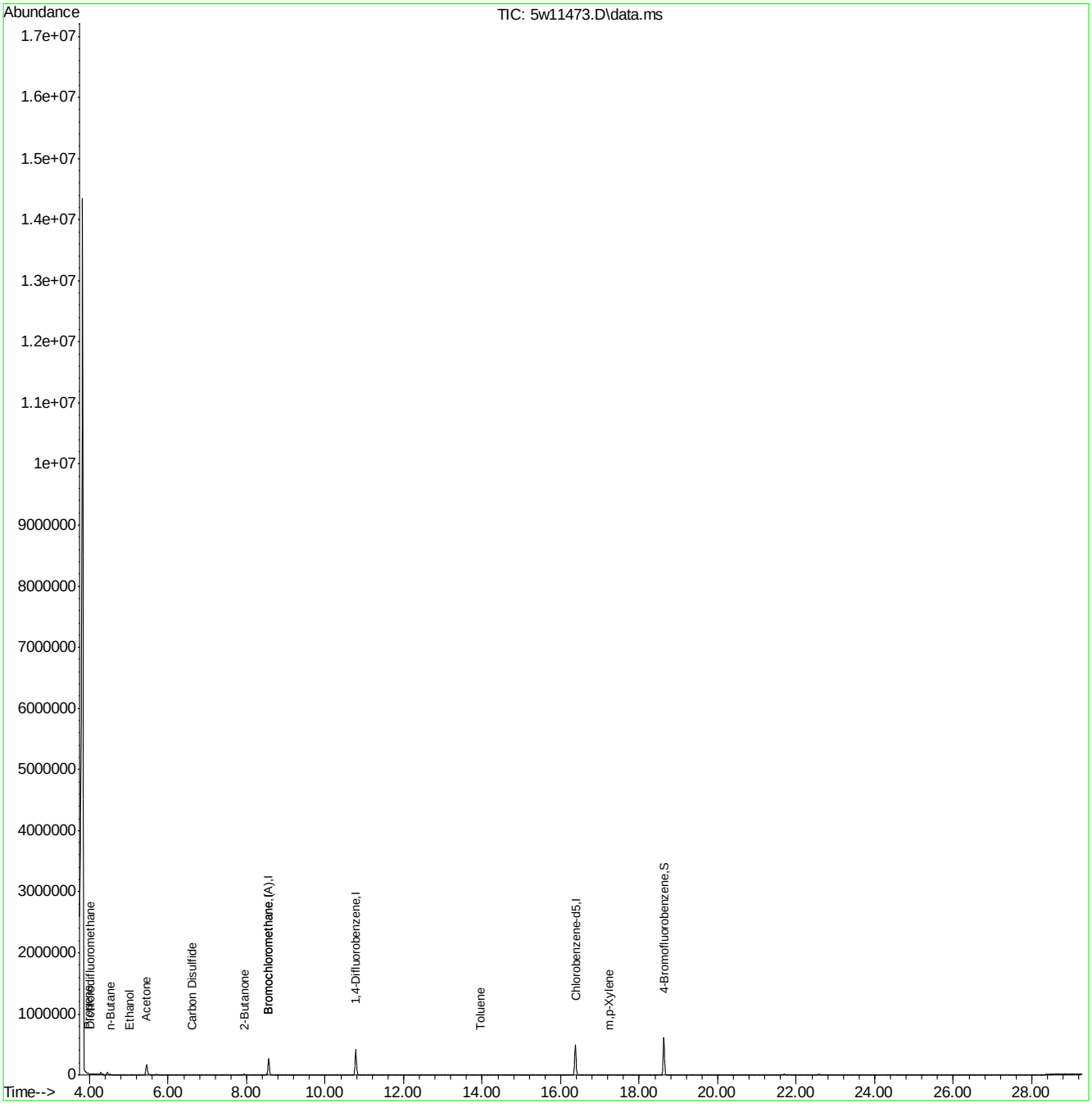
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.558	130	110311	10.00	ppb(v	#-0.02
53) 1,4-Difluorobenzene	10.778	114	406873	10.00	ppb(v	-0.02
75) Chlorobenzene-d5	16.376	82	214157	10.00	ppb(v	-0.03
106) Bromochloromethane (A)	8.558	130	110311	10.00	ppb(v	#-0.02
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.627	95	274323	9.82	ppb(v	-0.04
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.20%			
Target Compounds						Qvalue
5) Propene	3.957	41	2869	0.36	ppb(v#	89
6) Dichlorodifluoromethane	4.018	85	3251	0.11	ppb(v	99
12) n-Butane	4.532	58	238	0.15	ppb(v#	1
21) Acetone	5.450	58	86773	16.79	ppb(v	92
29) Carbon Disulfide	6.618	76	3744	0.11	ppb(v	97
30) Ethanol	5.015	45	2526	0.48	ppb(v#	96
38) 2-Butanone	7.934	72	1045	0.18	ppb(v	57
66) Toluene	13.966	91	5165	0.12	ppb(v#	89
78) m,p-Xylene	17.233	91	6280	0.15	ppb(v	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

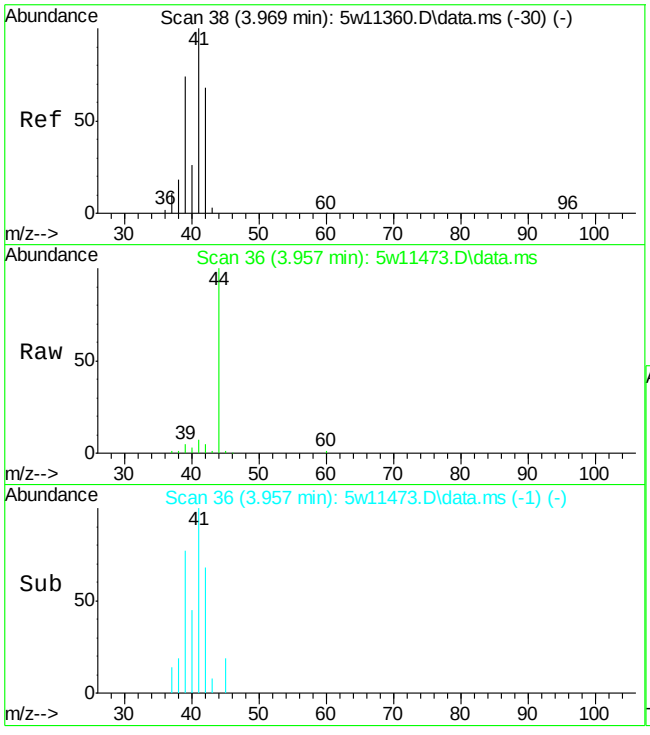
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11473.D
Acq On : 9 May 2015 8:56 pm
Operator : mikel1
Sample : JB94203-4
Misc : MS84855,v5w450,10,,,,1.45
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 12 08:13:03 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration



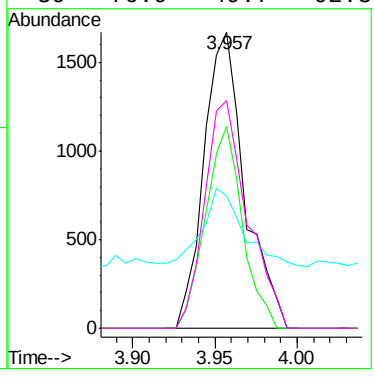
m5w419.M Tue May 12 08:14:54 2015 GCMS5W Page: 2

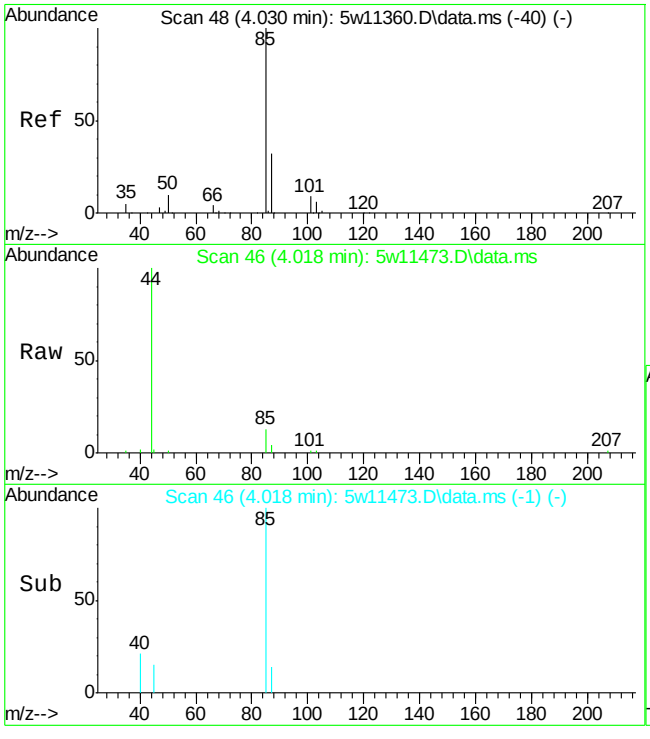


#5
Propene
Concen: 0.36 ppb(v)
RT: 3.957 min Scan# 36
Delta R.T. -0.012 min
Lab File: 5w11473.D
Acq: 9 May 2015 8:56 pm

Tgt Ion: 41 Resp: 2869

Ion	Ratio	Lower	Upper
41	100		
42	68.1	45.0	83.6
40	44.8	17.9	33.3#
39	76.9	49.7	92.3

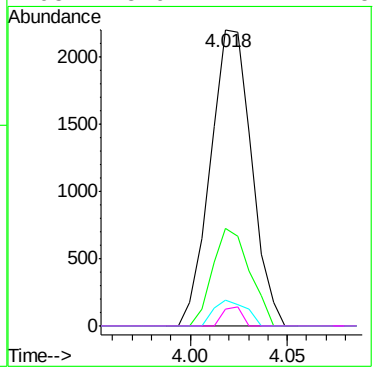


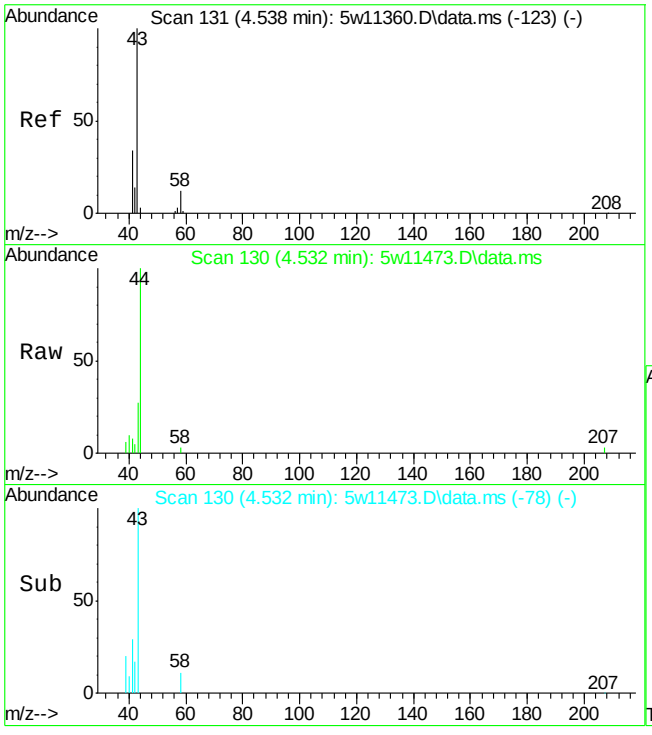


#6
Dichlorodifluoromethane
Concen: 0.11 ppb(v)
RT: 4.018 min Scan# 46
Delta R.T. -0.018 min
Lab File: 5w11473.D
Acq: 9 May 2015 8:56 pm

Tgt Ion: 85 Resp: 3251

Ion	Ratio	Lower	Upper
85	100		
87	33.1	22.7	42.1
101	8.9	6.0	11.2
103	5.9	4.1	7.5

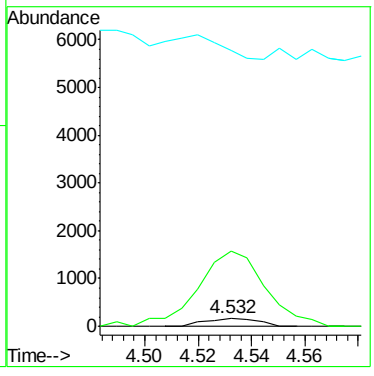


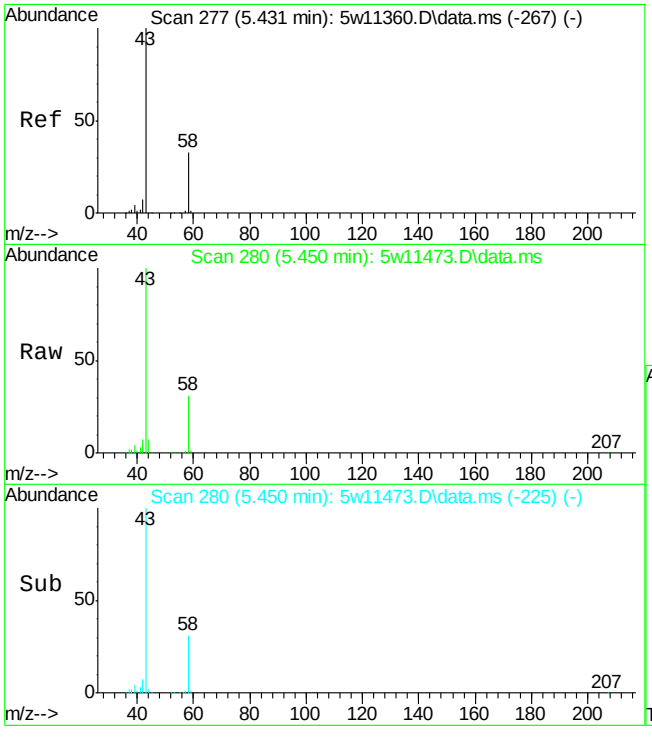


#12
n-Butane
Concen: 0.15 ppb(v)
RT: 4.532 min Scan# 130
Delta R.T. -0.012 min
Lab File: 5w11473.D
Acq: 9 May 2015 8:56 pm

Tgt Ion: 58 Resp: 238

Ion	Ratio	Lower	Upper
58	100		
43	925.7	583.8	1084.2
44	3371.9	25.6	47.6#

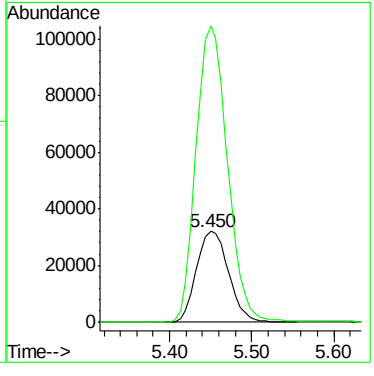


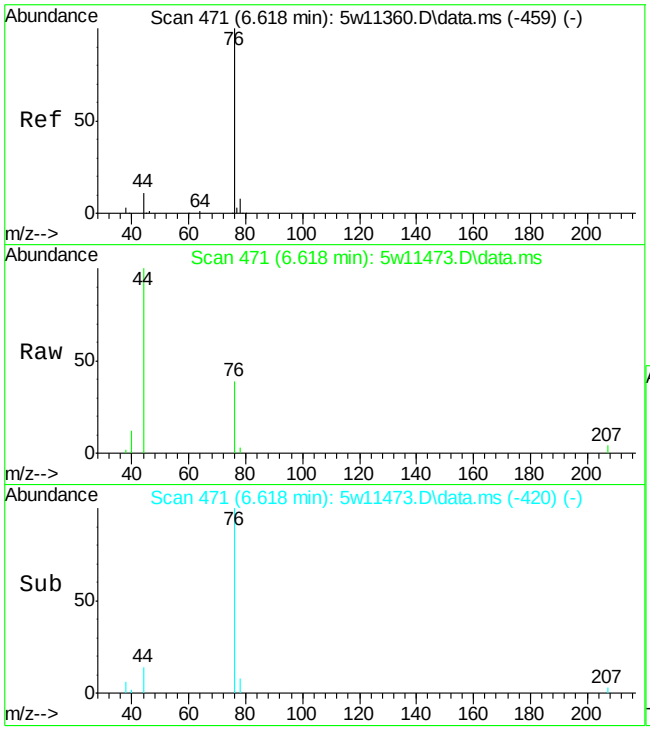


#21
Acetone
Concen: 16.79 ppb(v)
RT: 5.450 min Scan# 280
Delta R.T. 0.006 min
Lab File: 5w11473.D
Acq: 9 May 2015 8:56 pm

Tgt Ion: 58 Resp: 86773

Ion	Ratio	Lower	Upper
58	100		
43	327.4	217.8	404.6

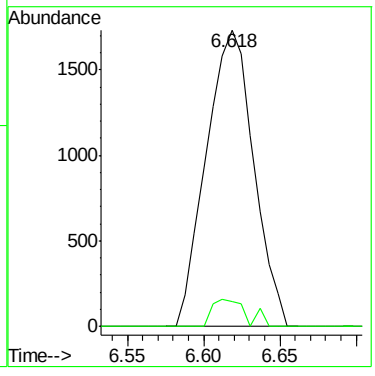


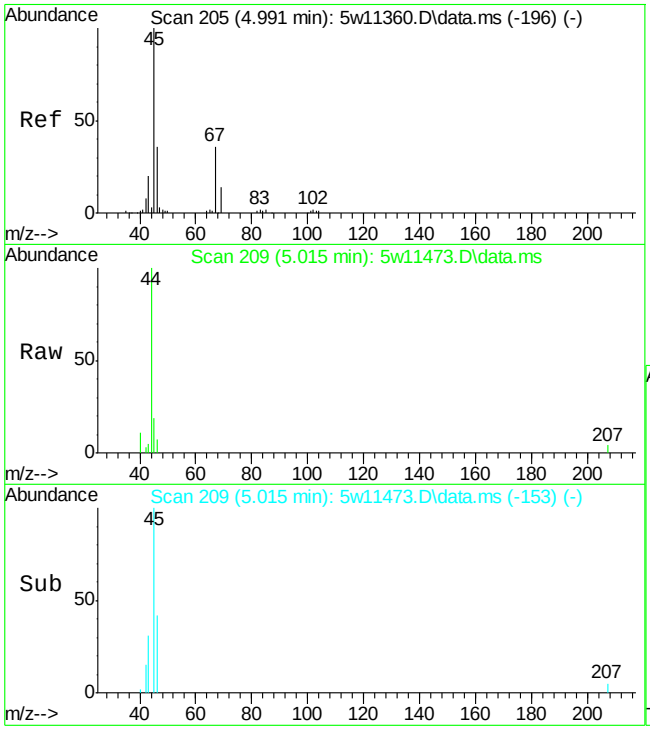


#29
Carbon Disulfide
Concen: 0.11 ppb(v)
RT: 6.618 min Scan# 471
Delta R.T. -0.019 min
Lab File: 5w11473.D
Acq: 9 May 2015 8:56 pm

Tgt Ion: 76 Resp: 3744

Ion	Ratio	Lower	Upper
76	100		
78	8.3	6.6	12.4

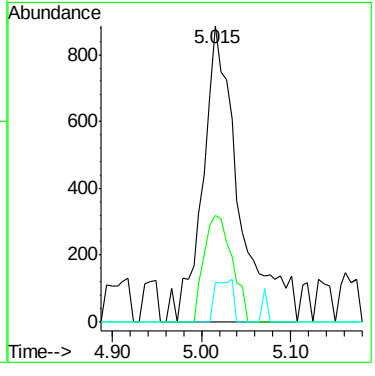


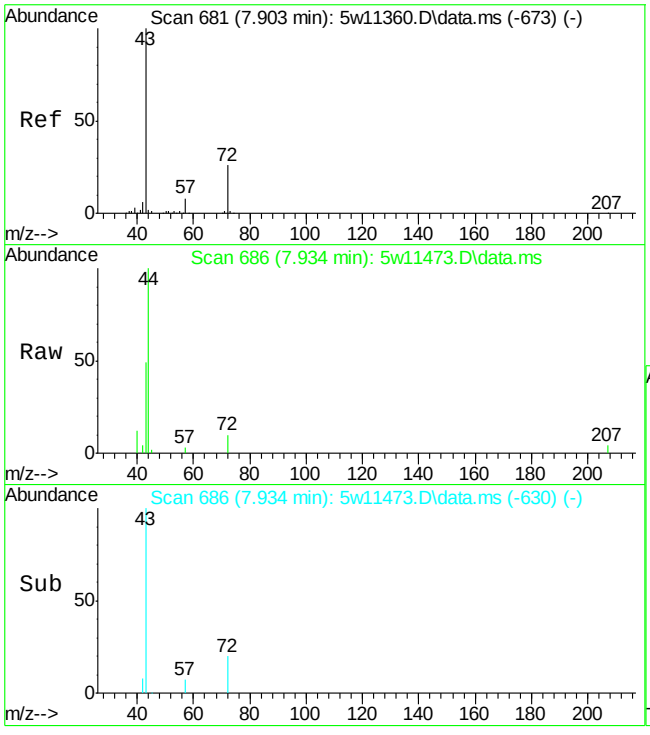


#30
Ethanol
Concen: 0.48 ppb(v)
RT: 5.015 min Scan# 209
Delta R.T. 0.012 min
Lab File: 5w11473.D
Acq: 9 May 2015 8:56 pm

Tgt Ion: 45 Resp: 2526

Ion	Ratio	Lower	Upper
45	100		
46	36.0	24.6	45.6
42	13.4	5.5	10.1#

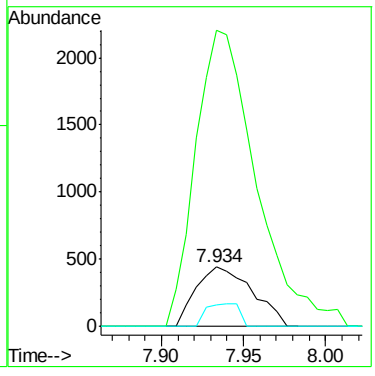


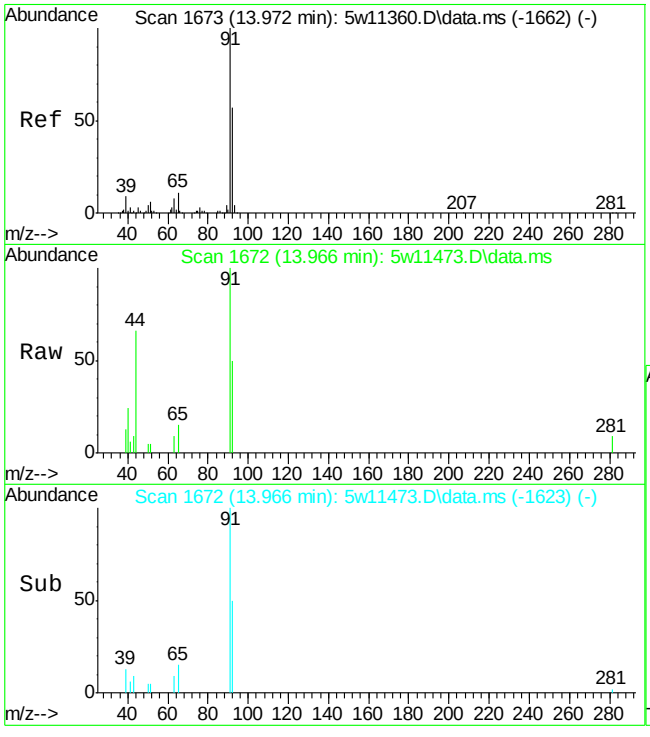


#38
2-Butanone
Concen: 0.18 ppb(v)
RT: 7.934 min Scan# 686
Delta R.T. 0.013 min
Lab File: 5w11473.D
Acq: 9 May 2015 8:56 pm

Tgt Ion: 72 Resp: 1045

Ion	Ratio	Lower	Upper
72	100		
43	498.9	274.1	508.9
57	35.7	22.1	41.1

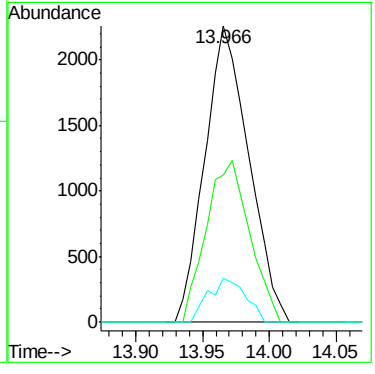


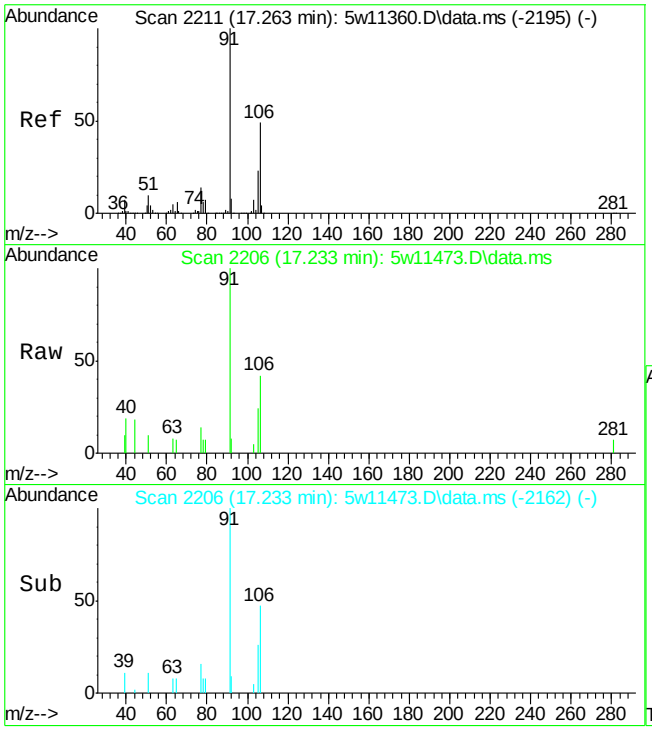


#66
Toluene
Concen: 0.12 ppb(v)
RT: 13.966 min Scan# 1672
Delta R.T. -0.030 min
Lab File: 5w11473.D
Acq: 9 May 2015 8:56 pm

Tgt Ion: 91 Resp: 5165

Ion	Ratio	Lower	Upper
91	100		
92	49.7	40.3	74.9
65	14.8	7.6	14.0#

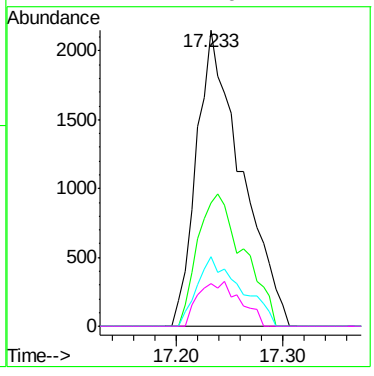




#78
m,p-Xylene
Concen: 0.15 ppb(v)
RT: 17.233 min Scan# 2206
Delta R.T. -0.061 min
Lab File: 5w11473.D
Acq: 9 May 2015 8:56 pm

Tgt Ion: 91 Resp: 6280

Ion	Ratio	Lower	Upper
91	100		
106	41.9	35.1	65.1
105	23.5	16.0	29.8
77	14.4	9.4	17.4



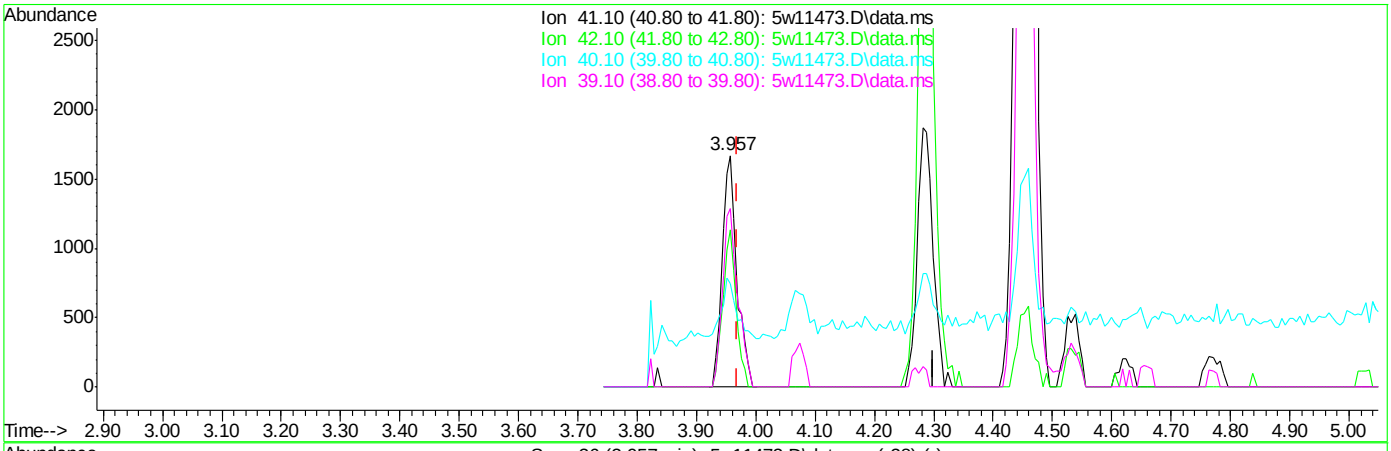
7.1.8

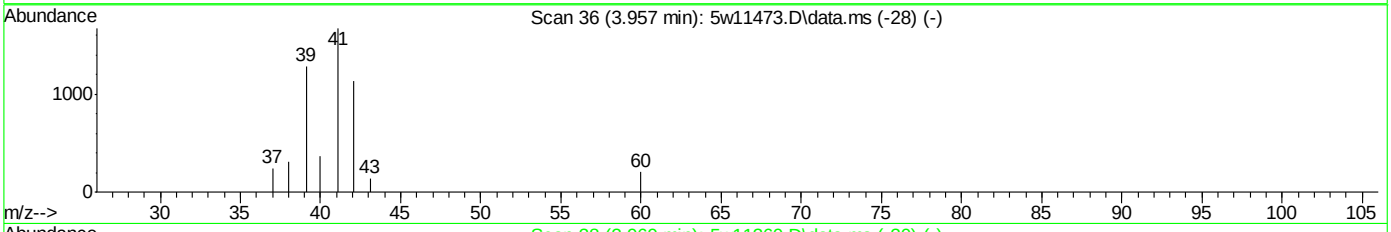
7

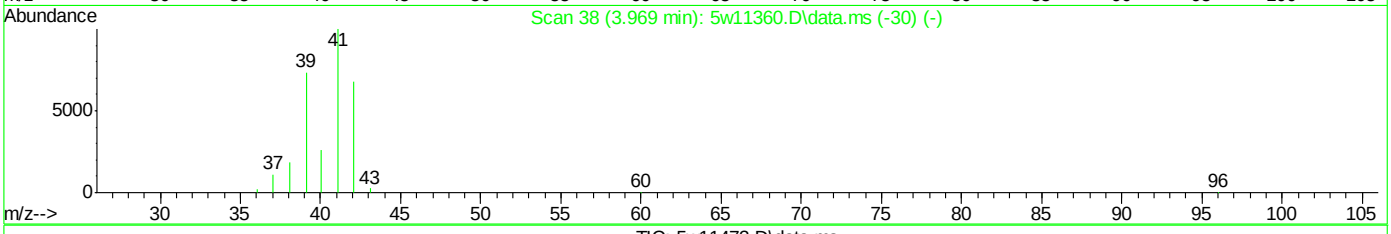
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11473.D
Acq On : 9 May 2015 8:56 pm
Operator : mikel1
Sample : JB94203-4
Misc : MS84855,v5w450,10,,,,1.45
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 11 08:37:45 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration







TIC: 5w11473.D\data.ms

(5) Propene

3.957min (-0.012) 0.36ppb(v)

response 2869

Ion	Exp%	Act%
41.10	100	100
42.10	64.30	68.06
40.10	25.60	44.76#
39.10	71.00	76.87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11442.D
Acq On : 8 May 2015 7:17 pm
Operator : mikel1
Sample : JB94203-5
Misc : MS84855,v5w449,100,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 12 09:37:08 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

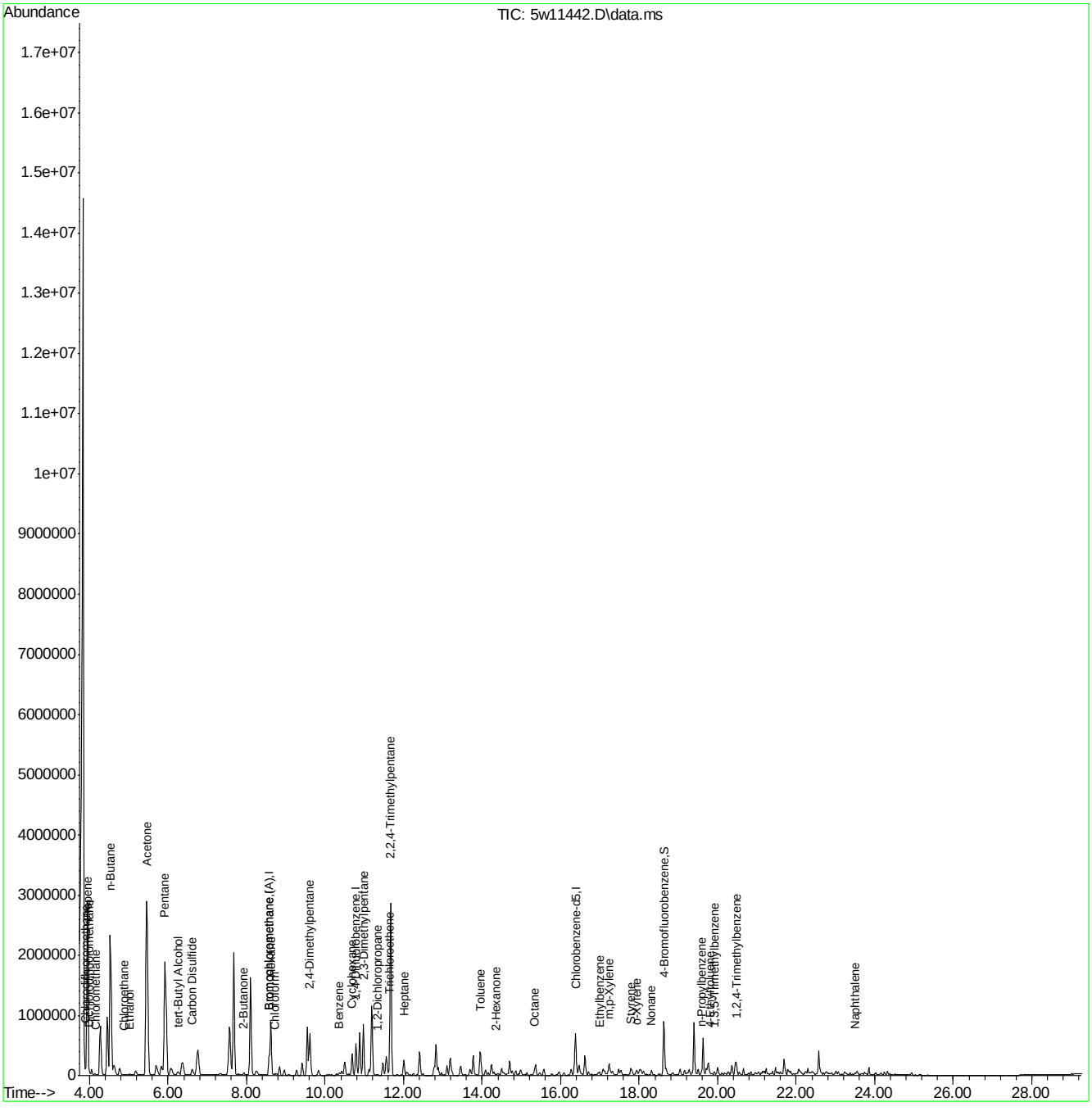
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.570	130	142485	10.00	ppb(v	# 0.00
53) 1,4-Difluorobenzene	10.784	114	538267	10.00	ppb(v	-0.02
75) Chlorobenzene-d5	16.376	82	304487	10.00	ppb(v	-0.03
106) Bromochloromethane (A)	8.570	130	142485	10.00	ppb(v	# 0.00
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.627	95	417330	10.51	ppb(v	-0.04
Spiked Amount 10.000	Range 65 - 128		Recovery = 105.10%			
Target Compounds						Qvalue
4) Chlorodifluoromethane	3.896	67	10191	3.03	ppb(v	96
5) Propene	3.933	41	1296202	126.47	ppb(v	97
6) Dichlorodifluoromethane	4.000	85	12001	0.33	ppb(v	95
8) Chloromethane	4.147	50	2455	0.21	ppb(v	96
12) n-Butane	4.532	58	404053	198.24	ppb(v	99
14) Chloroethane	4.881	64	8051	1.15	ppb(v	99
21) Acetone	5.462	58	753875	112.91	ppb(v#	44
22) Pentane	5.915	57	427181	124.96	ppb(v	98
29) Carbon Disulfide	6.612	76	237674	5.64	ppb(v	99
30) Ethanol	5.028	45	24404	3.62	ppb(v	99
34) tert-Butyl Alcohol	6.270	59	9478	0.29	ppb(v#	1
38) 2-Butanone	7.928	72	15995	2.16	ppb(v	95
39) Hexane	8.619	57	522641	21.92	ppb(v#	37
44) Chloroform	8.717	83	16645	0.52	ppb(v	96
45) 2,4-Dimethylpentane	9.610	57	375936	14.61	ppb(v	97
49) Benzene	10.362	78	49025	1.04	ppb(v	100
51) Cyclohexane	10.687	56	215924	9.60	ppb(v	96
52) 2,3-Dimethylpentane	10.974	71	175448	18.72	ppb(v	95
54) 2,2,4-Trimethylpentane	11.672	57	3133981	43.66	ppb(v	94
55) Heptane	12.008	71	72181	5.05	ppb(v	98
56) Trichloroethene	11.641	95	784	0.04	ppb(v#	36
57) 1,2-Dichloropropane	11.335	63	5072	0.29	ppb(v	95
66) Toluene	13.966	91	130643	2.32	ppb(v	98
68) 2-Hexanone	14.357	58	4875	0.23	ppb(v#	80
73) Octane	15.324	43	43295	1.24	ppb(v	94
77) Ethylbenzene	16.988	91	52270	0.71	ppb(v	97
78) m,p-Xylene	17.233	91	171336	2.89	ppb(v	99
79) Styrene	17.783	104	24829	0.60	ppb(v	94
80) Nonane	18.315	43	24002	0.64	ppb(v#	92
81) o-Xylene	17.936	91	80670	1.40	ppb(v	97
88) n-Propylbenzene	19.594	120	4250	0.21	ppb(v	79
90) 4-Ethyltoluene	19.802	105	27103	0.35	ppb(v#	94
91) 1,3,5-Trimethylbenzene	19.918	105	26559	0.41	ppb(v	96
94) 1,2,4-Trimethylbenzene	20.475	105	104273	1.60	ppb(v#	64
104) Naphthalene	23.491	128	19751	0.37	ppb(v	98

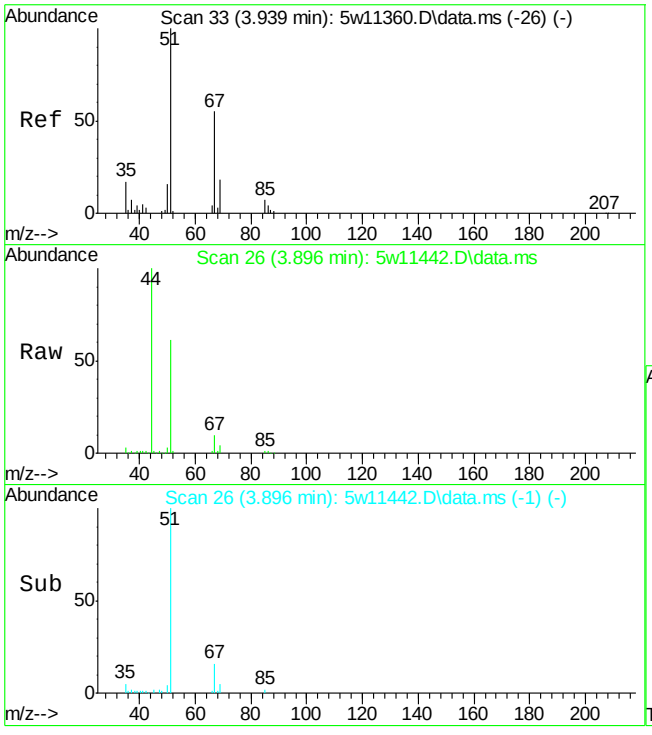
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11442.D
Acq On : 8 May 2015 7:17 pm
Operator : mikel1
Sample : JB94203-5
Misc : MS84855,v5w449,100,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 12 09:37:08 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

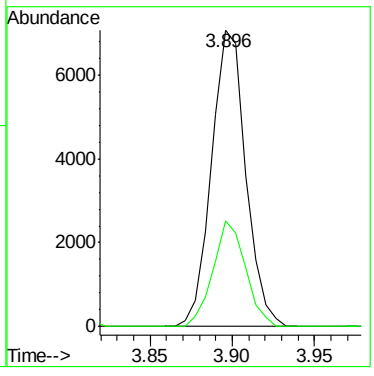


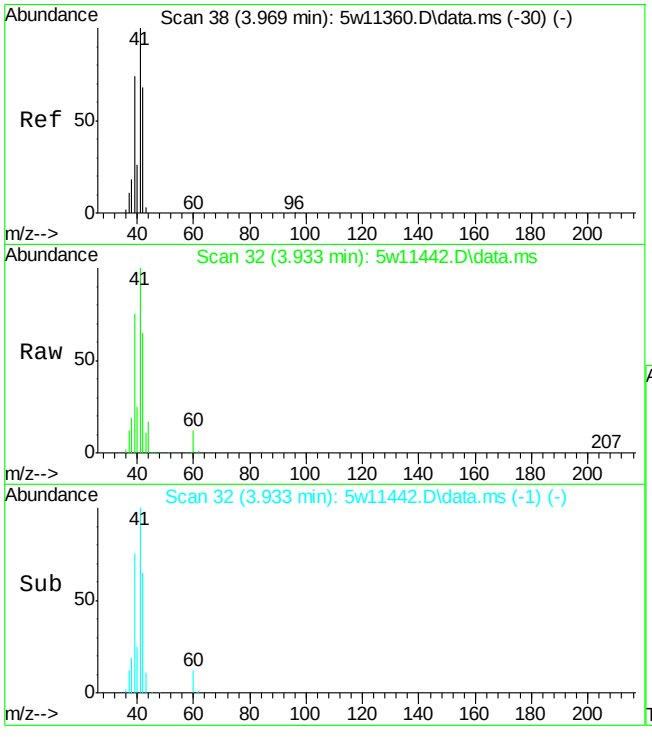


#4
Chlorodifluoromethane
Concen: 3.03 ppb(v)
RT: 3.896 min Scan# 26
Delta R.T. -0.049 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 67 Resp: 10191

Ion	Ratio	Lower	Upper
67	100		
69	35.5	23.3	43.3

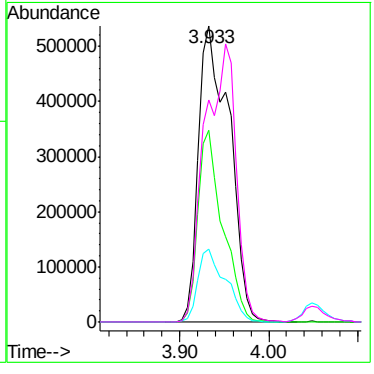


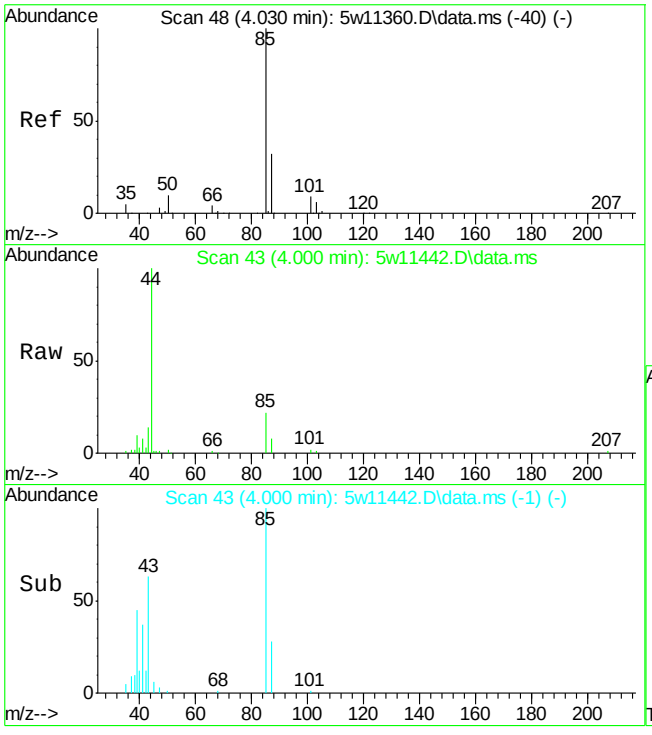


#5
Propene
Concen: 126.47 ppb(v)
RT: 3.933 min Scan# 32
Delta R.T. -0.037 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 41 Resp: 1296202

Ion	Ratio	Lower	Upper
41	100		
42	64.8	45.0	83.6
40	24.8	17.9	33.3
39	74.9	49.7	92.3

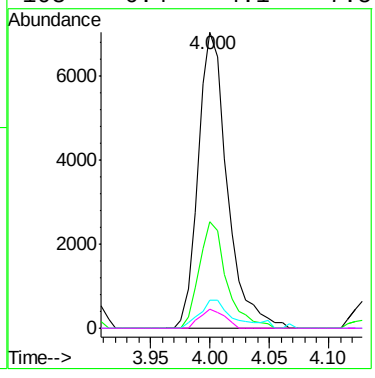


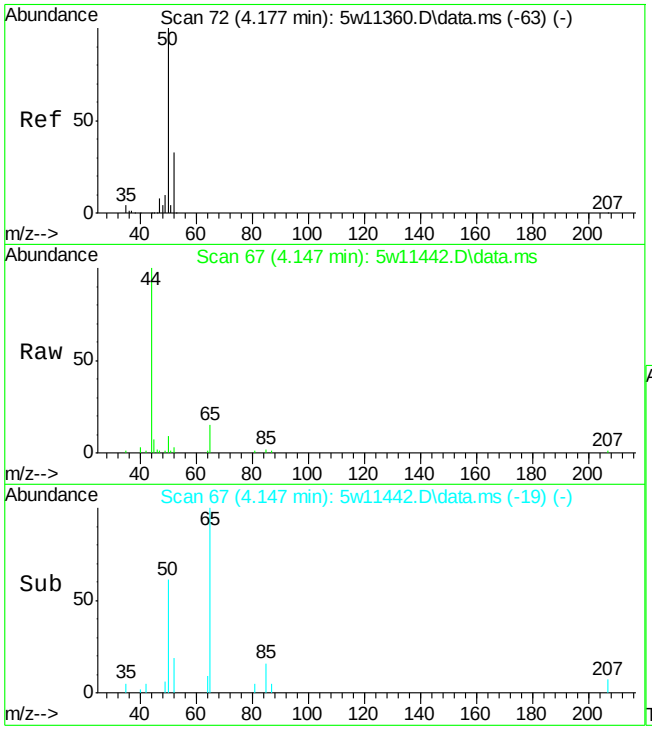


#6
Dichlorodifluoromethane
Concen: 0.33 ppb(v)
RT: 4.000 min Scan# 43
Delta R.T. -0.037 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 85 Resp: 12001

Ion	Ratio	Lower	Upper
85	100		
87	36.1	22.7	42.1
101	9.5	6.0	11.2
103	6.4	4.1	7.5

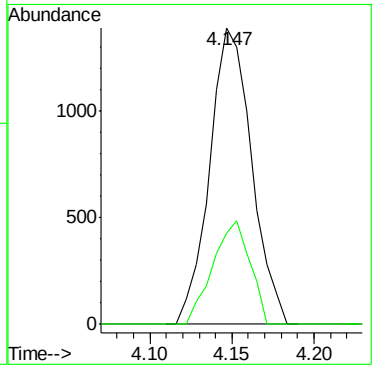


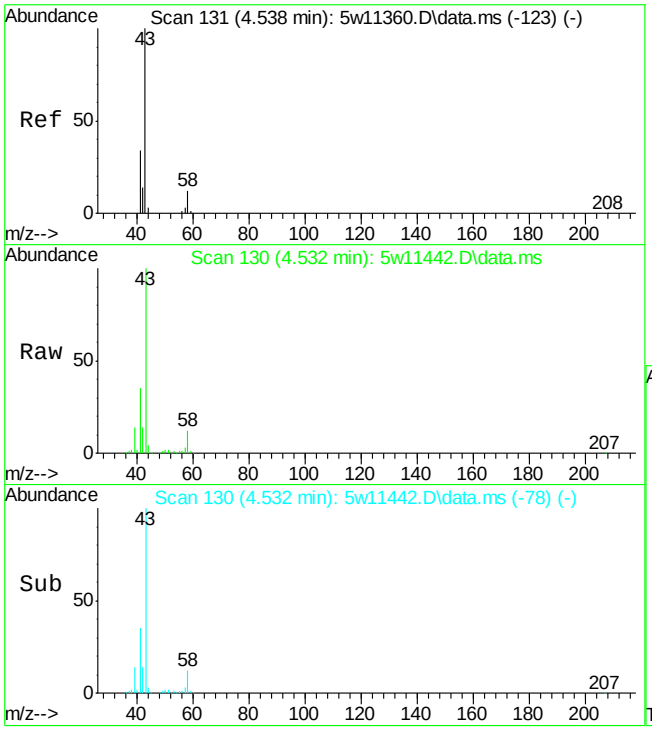


#8
Chloromethane
Concen: 0.21 ppb(v)
RT: 4.147 min Scan# 67
Delta R.T. -0.037 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 50 Resp: 2455

Ion	Ratio	Lower	Upper
50	100		
52	30.7	23.2	43.0

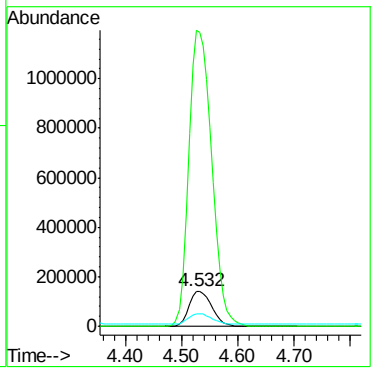


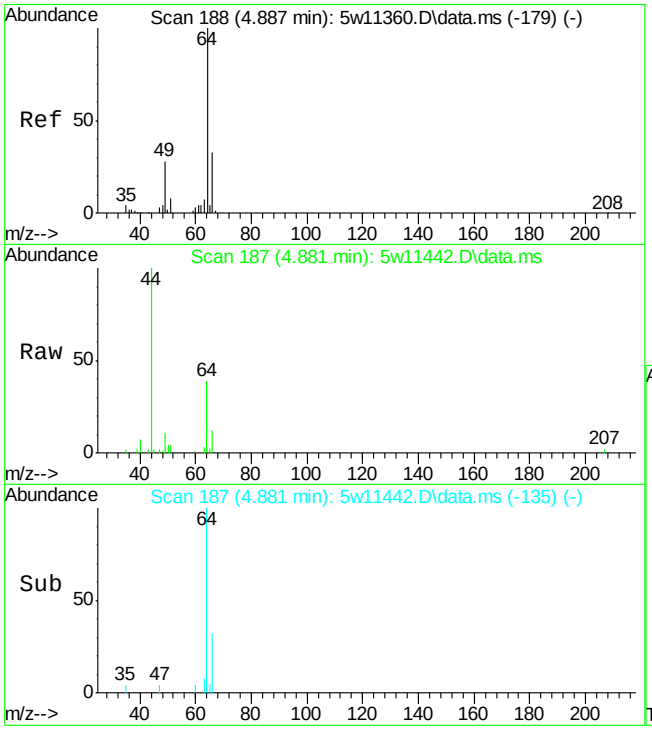


#12
n-Butane
Concen: 198.24 ppb(v)
RT: 4.532 min Scan# 130
Delta R.T. -0.012 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 58 Resp: 404053

Ion	Ratio	Lower	Upper
58	100		
43	839.1	583.8	1084.2
44	35.6	25.6	47.6

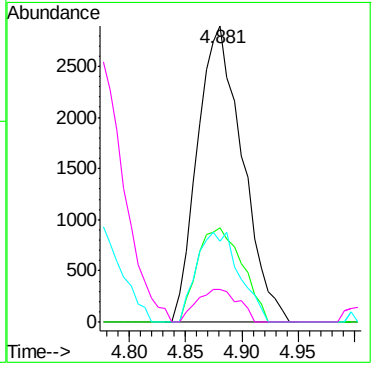


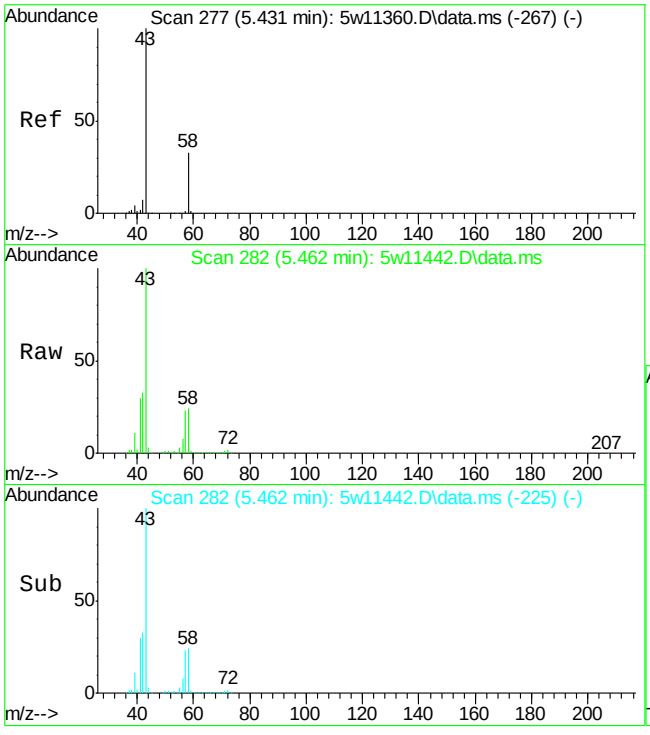


#14
Chloroethane
Concen: 1.15 ppb(v)
RT: 4.881 min Scan# 187
Delta R.T. -0.012 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 64 Resp: 8051

Ion	Ratio	Lower	Upper
64	100		
66	31.8	22.3	41.5
49	27.5	19.3	35.8
51	11.2	6.2	11.6

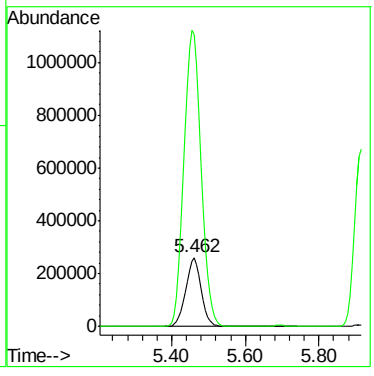


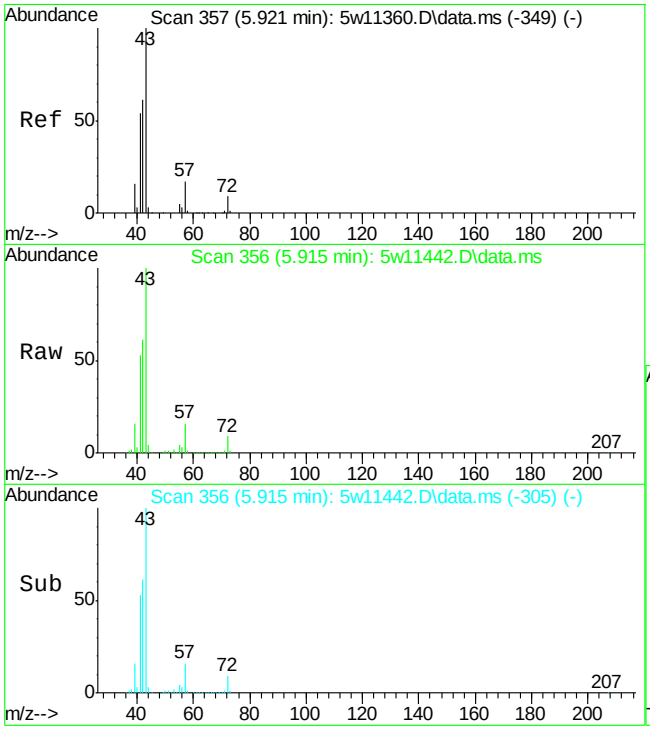


#21
Acetone
Concen: 112.91 ppb(v)
RT: 5.462 min Scan# 282
Delta R.T. 0.018 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 58 Resp: 753875

Ion	Ratio	Lower	Upper
58	100		
43	424.4	217.8	404.6#

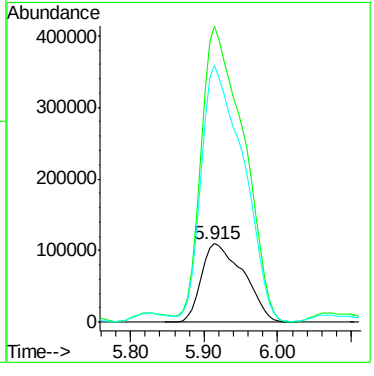




#22
Pentane
Concen: 124.96 ppb(v)
RT: 5.915 min Scan# 356
Delta R.T. -0.018 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 57 Resp: 427181

Ion	Ratio	Lower	Upper
57	100		
42	378.9	262.5	487.5
41	328.8	225.7	419.1



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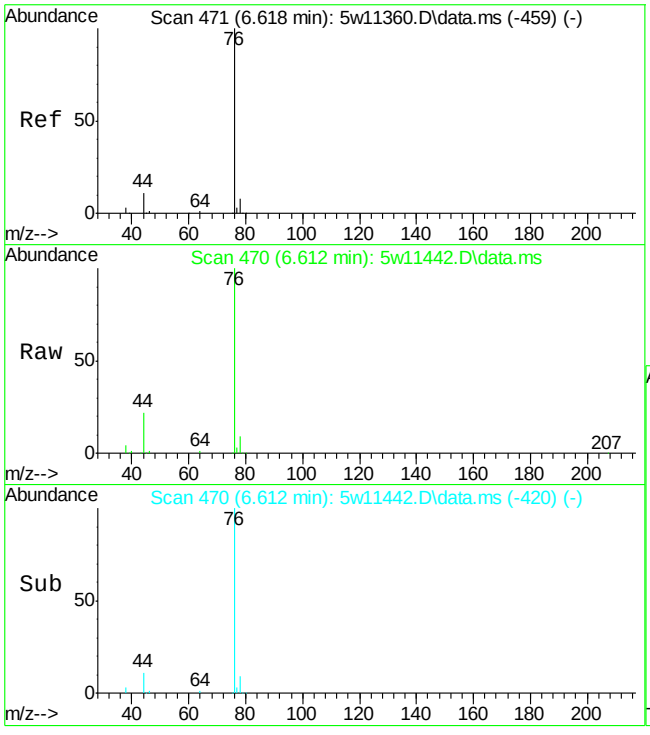
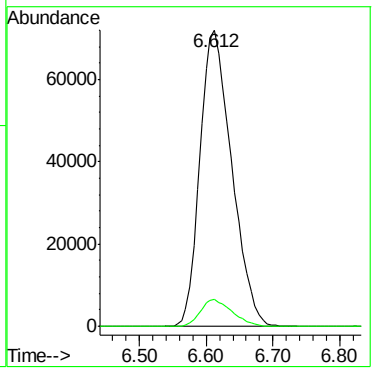
7

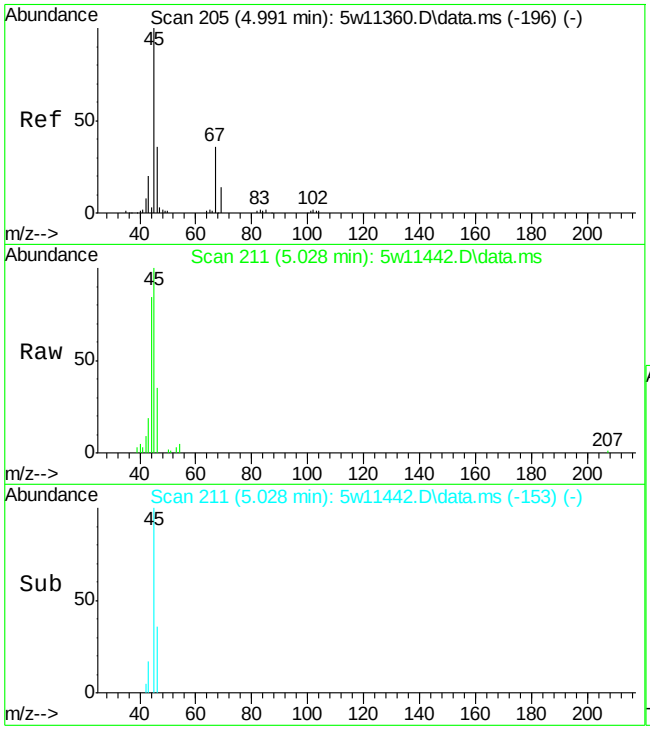


#29
Carbon Disulfide
Concen: 5.64 ppb(v)
RT: 6.612 min Scan# 470
Delta R.T. -0.025 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 76 Resp: 237674

Ion	Ratio	Lower	Upper
76	100		
78	9.0	6.6	12.4

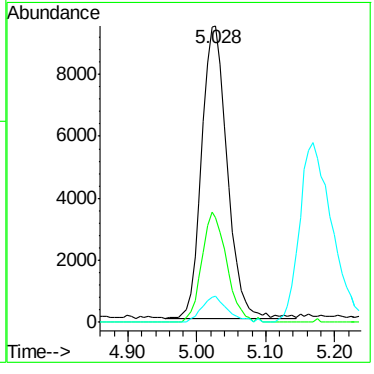


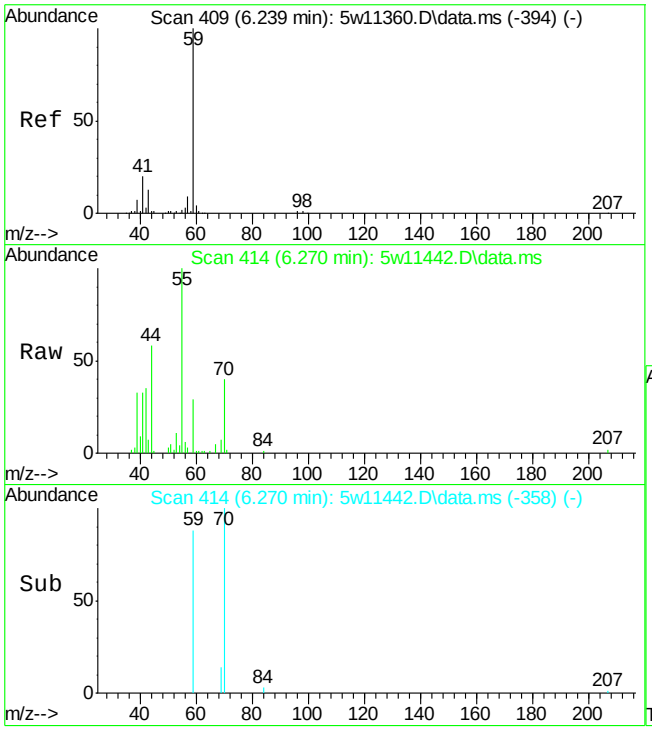


#30
Ethanol
Concen: 3.62 ppb(v)
RT: 5.028 min Scan# 211
Delta R.T. 0.025 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 45 Resp: 24404

Ion	Ratio	Lower	Upper
45	100		
46	35.2	24.6	45.6
42	8.6	5.5	10.1

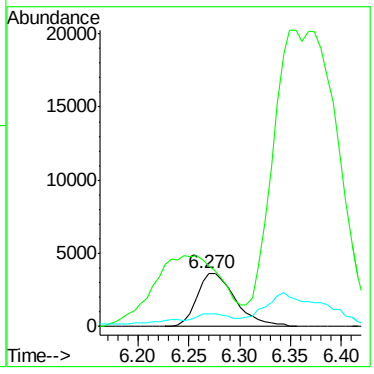


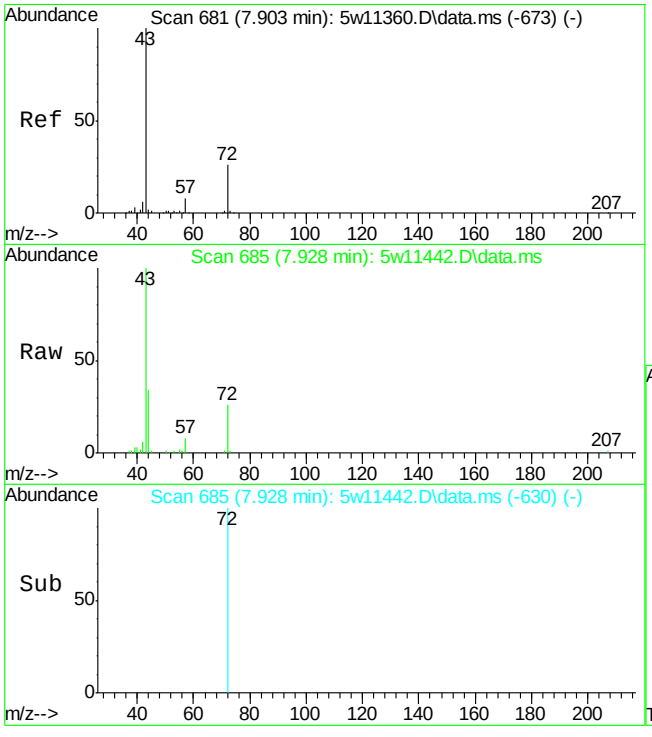


#34
tert-Butyl Alcohol
Concen: 0.29 ppb(v)
RT: 6.270 min Scan# 414
Delta R.T. 0.013 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 59 Resp: 9478

Ion	Ratio	Lower	Upper
59	100		
41	114.0	13.4	24.8#
43	23.1	9.3	17.3#

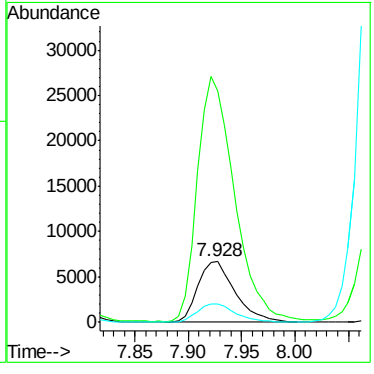


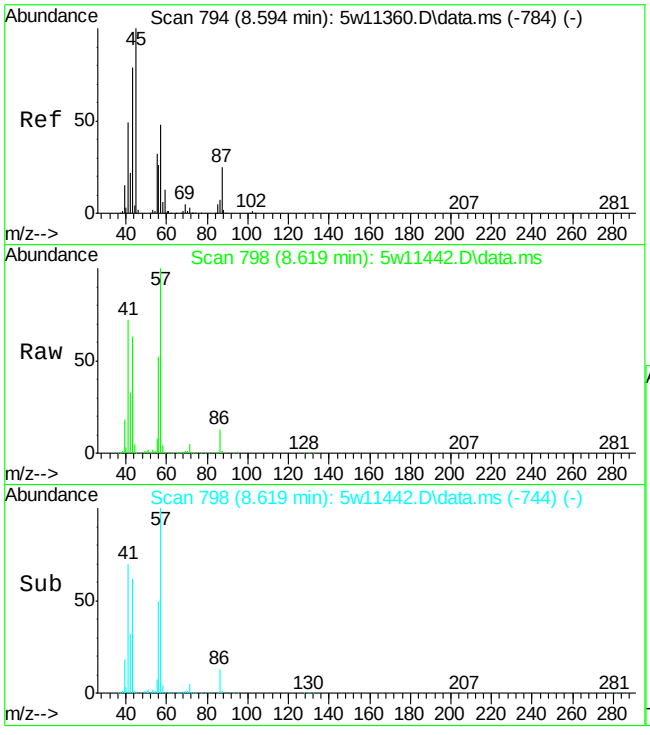


#38
2-Butanone
Concen: 2.16 ppb(v)
RT: 7.928 min Scan# 685
Delta R.T. 0.006 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 72 Resp: 15995

Ion	Ratio	Lower	Upper
72	100		
43	379.5	274.1	508.9
57	30.4	22.1	41.1

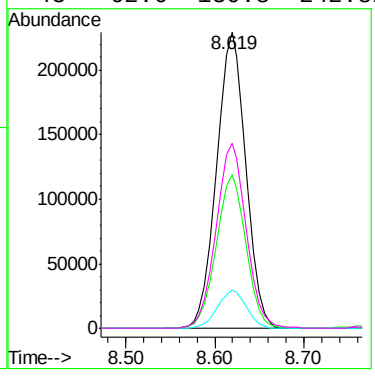


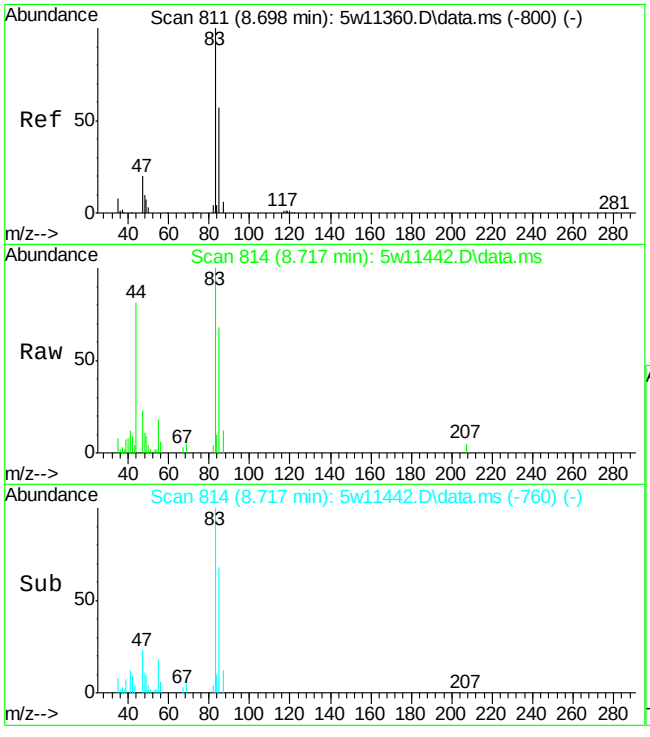


#39
Hexane
Concen: 21.92 ppb(v)
RT: 8.619 min Scan# 798
Delta R.T. 0.000 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 57 Resp: 522641

Ion	Ratio	Lower	Upper
57	100		
56	52.0	37.4	69.4
86	12.9	10.4	19.2
43	62.6	130.8	242.8#

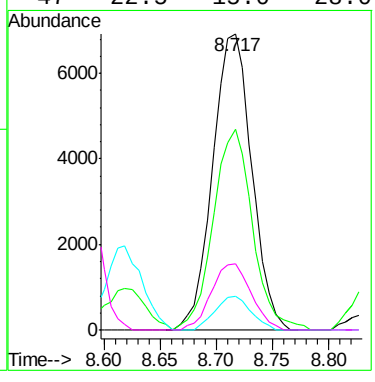




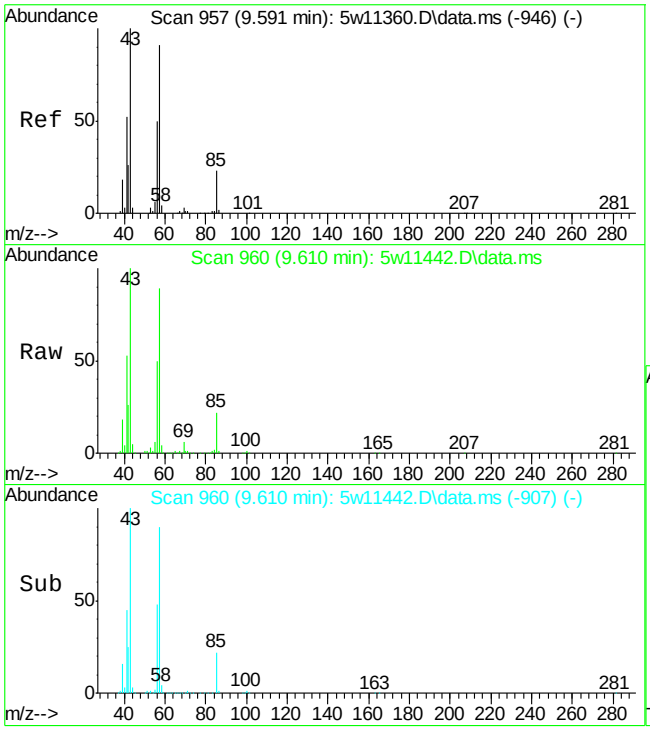
#44
Chloroform
Concen: 0.52 ppb(v)
RT: 8.717 min Scan# 814
Delta R.T. 0.000 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 83 Resp: 16645

Ion	Ratio	Lower	Upper
83	100		
85	68.0	45.0	83.6
87	11.5	7.3	13.5
47	22.5	15.0	28.0



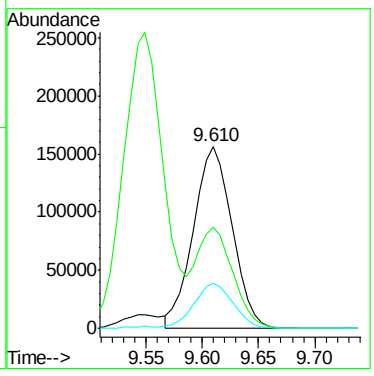
7.1.9

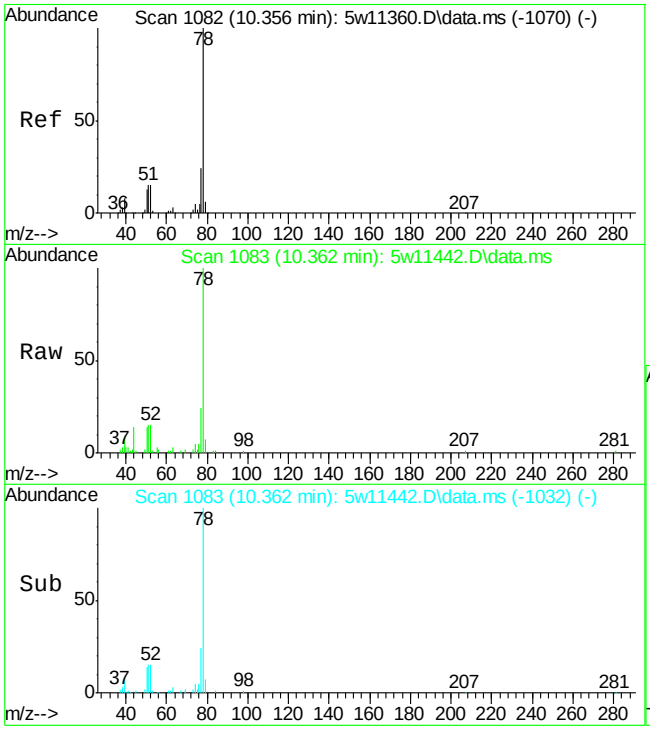


#45
2,4-Dimethylpentane
Concen: 14.61 ppb(v)
RT: 9.610 min Scan# 960
Delta R.T. -0.006 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 57 Resp: 375936

Ion	Ratio	Lower	Upper
57	100		
56	55.8	40.3	74.9
85	24.9	18.6	34.6

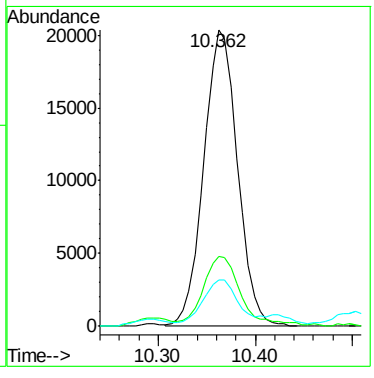


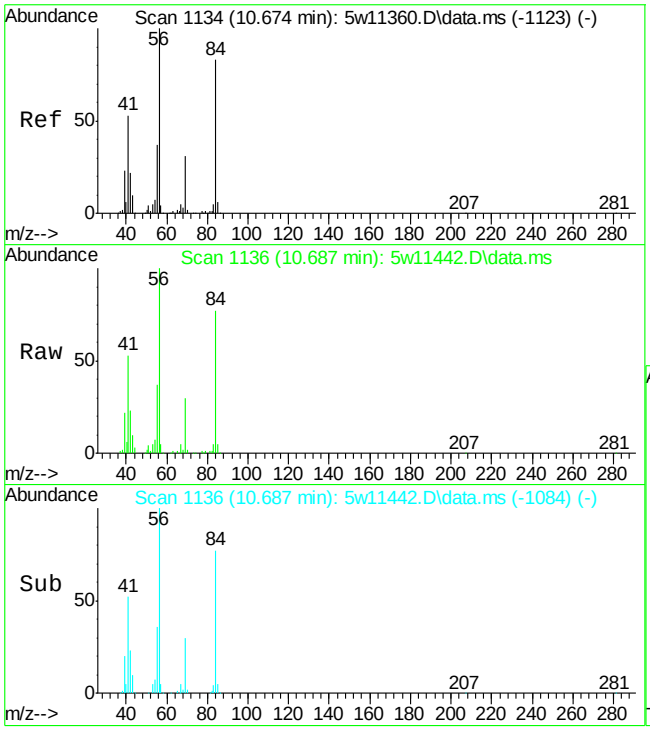


#49
Benzene
Concen: 1.04 ppb(v)
RT: 10.362 min Scan# 1083
Delta R.T. -0.018 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 78 Resp: 49025

Ion	Ratio	Lower	Upper
78	100		
77	23.6	16.6	30.8
51	15.5	10.6	19.6

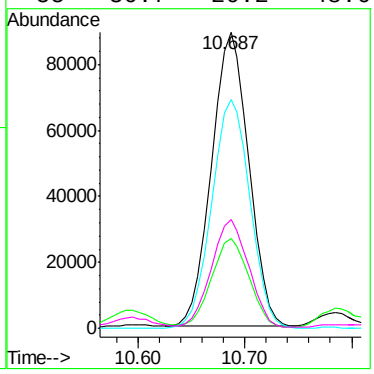


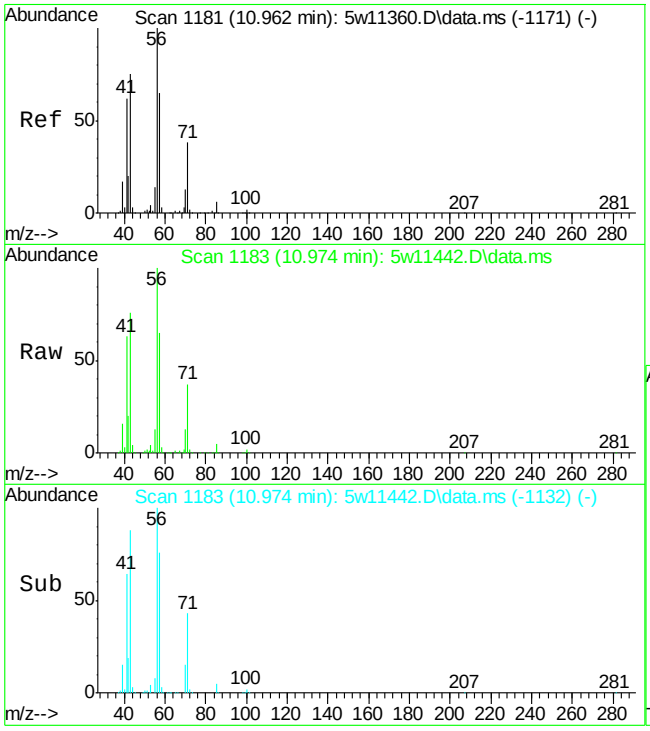


#51
Cyclohexane
Concen: 9.60 ppb(v)
RT: 10.687 min Scan# 1136
Delta R.T. -0.012 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 56 Resp: 215924

Ion	Ratio	Lower	Upper
56	100		
69	30.4	22.1	41.1
84	77.3	57.8	107.4
55	36.7	26.2	48.6

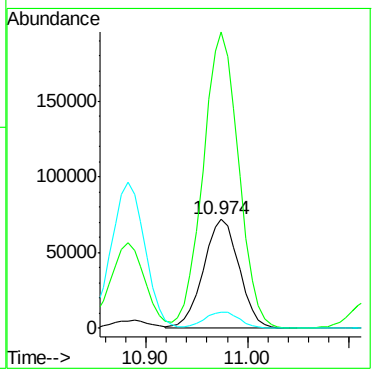


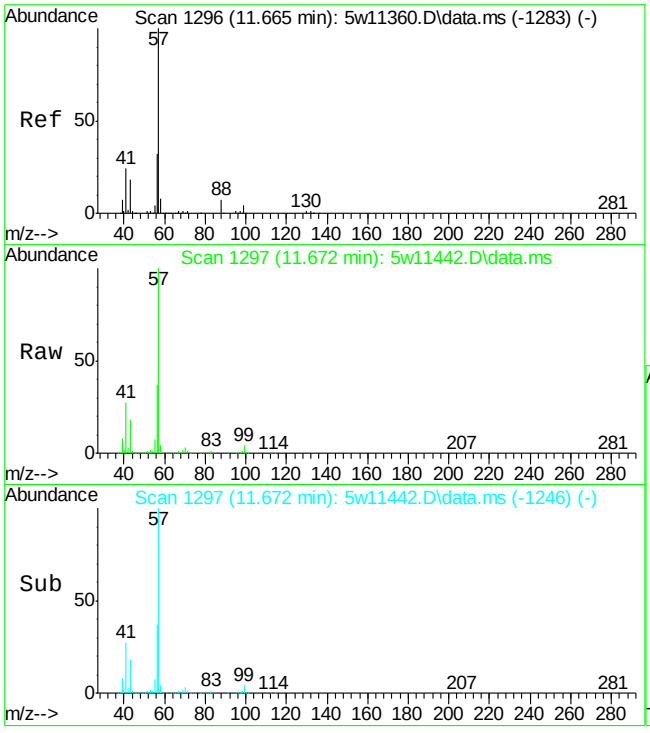


#52
2,3-Dimethylpentane
Concen: 18.72 ppb(v)
RT: 10.974 min Scan# 1183
Delta R.T. -0.018 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 71 Resp: 175448

Ion	Ratio	Lower	Upper
71	100		
56	271.7	183.3	340.5
85	14.7	10.8	20.0

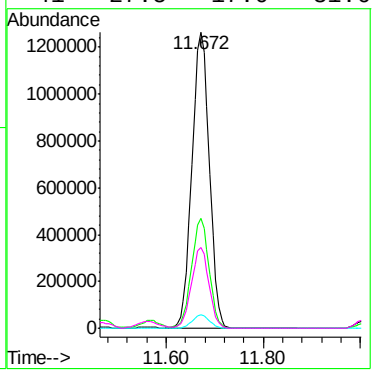


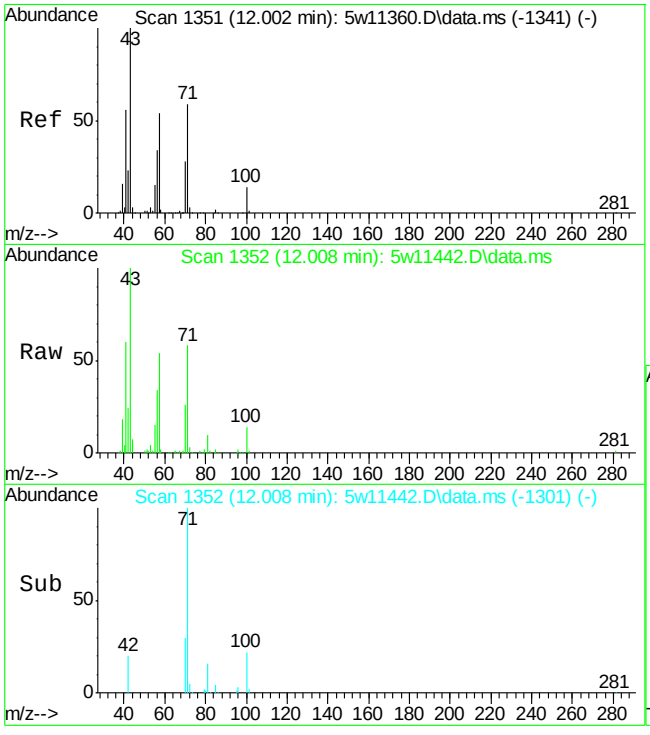


#54
2,2,4-Trimethylpentane
Concen: 43.66 ppb(v)
RT: 11.672 min Scan# 1297
Delta R.T. -0.018 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 57 Resp: 3133981

Ion	Ratio	Lower	Upper
57	100		
56	37.0	23.2	43.0
99	4.4	3.4	6.4
41	27.5	17.0	31.6

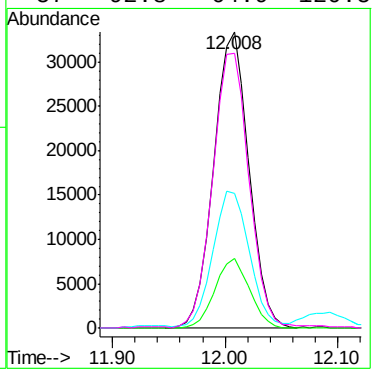


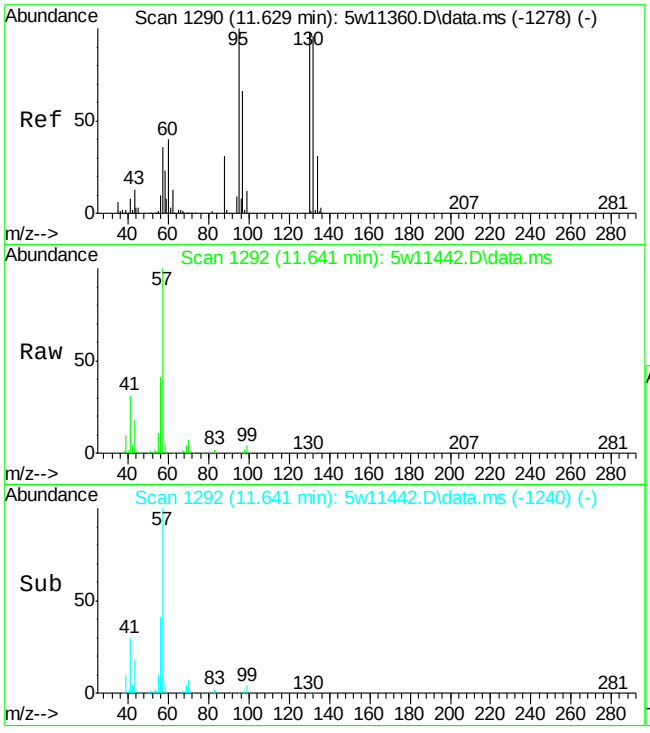


#55
Heptane
Concen: 5.05 ppb(v)
RT: 12.008 min Scan# 1352
Delta R.T. -0.018 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 71 Resp: 72181

Ion	Ratio	Lower	Upper
71	100		
100	23.4	18.3	33.9
70	45.6	33.5	62.1
57	92.8	64.9	120.5

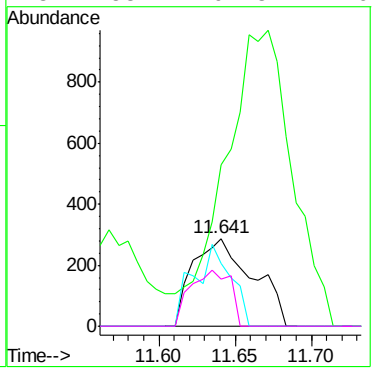


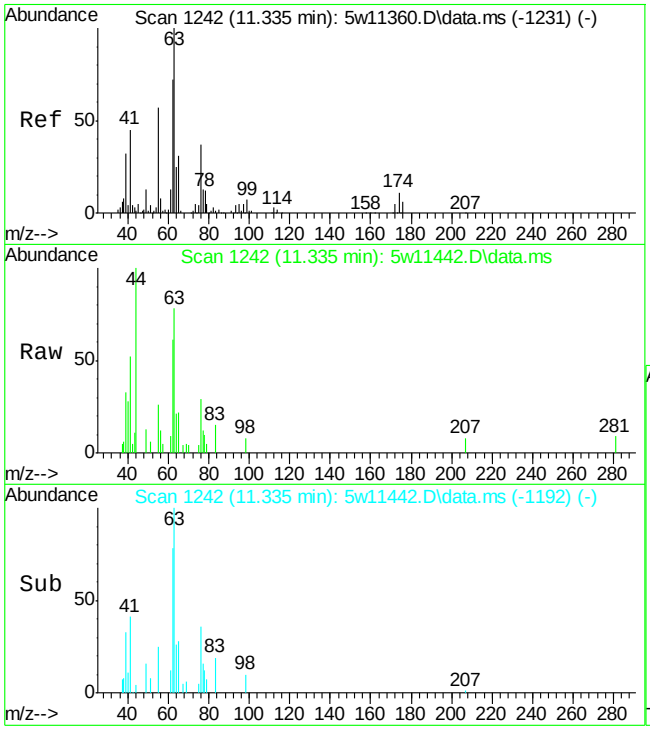


#56
Trichloroethene
Concen: 0.04 ppb(v)
RT: 11.641 min Scan# 1292
Delta R.T. -0.012 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 95 Resp: 784

Ion	Ratio	Lower	Upper
95	100		
97	184.7	46.0	85.4#
130	71.8	69.8	129.6
132	53.7	67.3	124.9#

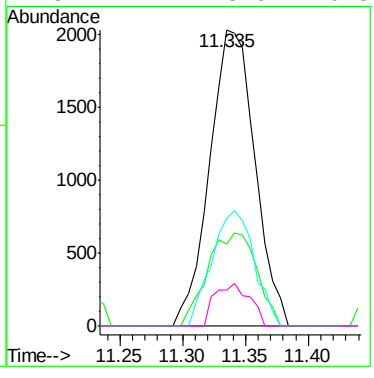


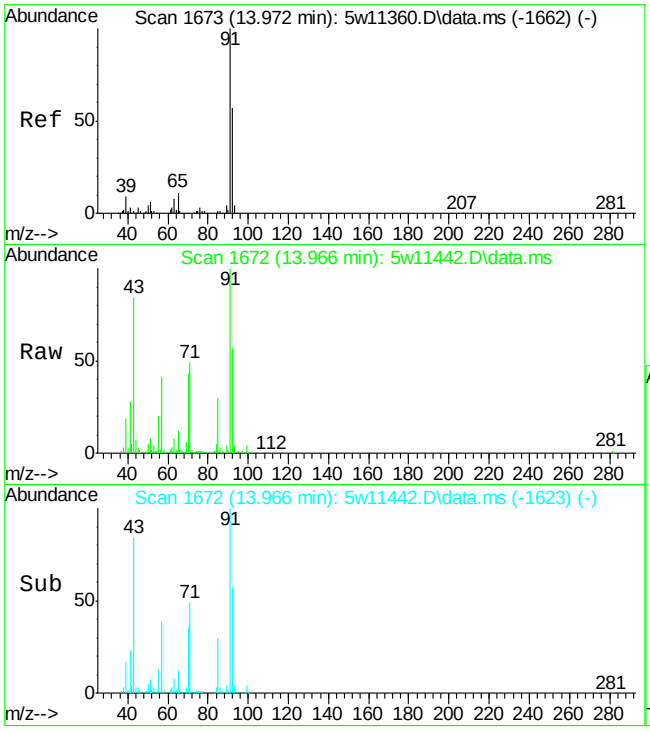


#57
1,2-Dichloropropane
Concen: 0.29 ppb(v)
RT: 11.335 min Scan# 1242
Delta R.T. -0.024 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 63 Resp: 5072

Ion	Ratio	Lower	Upper
63	100		
65	27.9	22.1	41.1
76	36.5	27.3	50.7
78	12.2	8.9	16.5

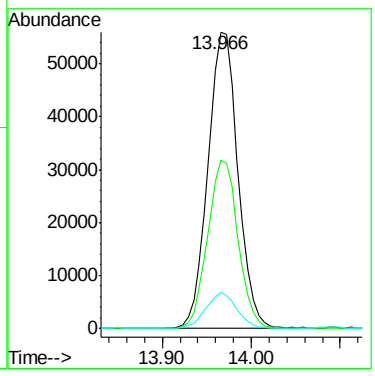


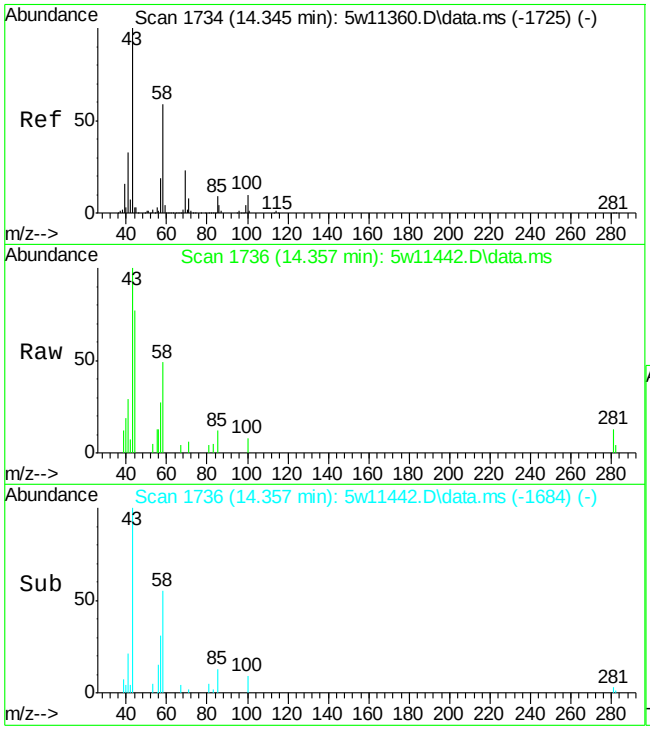


#66
Toluene
Concen: 2.32 ppb(v)
RT: 13.966 min Scan# 1672
Delta R.T. -0.030 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 91 Resp: 130643

Ion	Ratio	Lower	Upper
91	100		
92	56.7	40.3	74.9
65	12.3	7.6	14.0

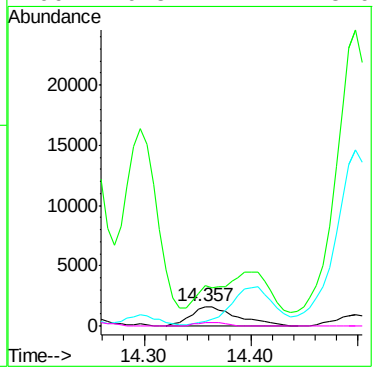


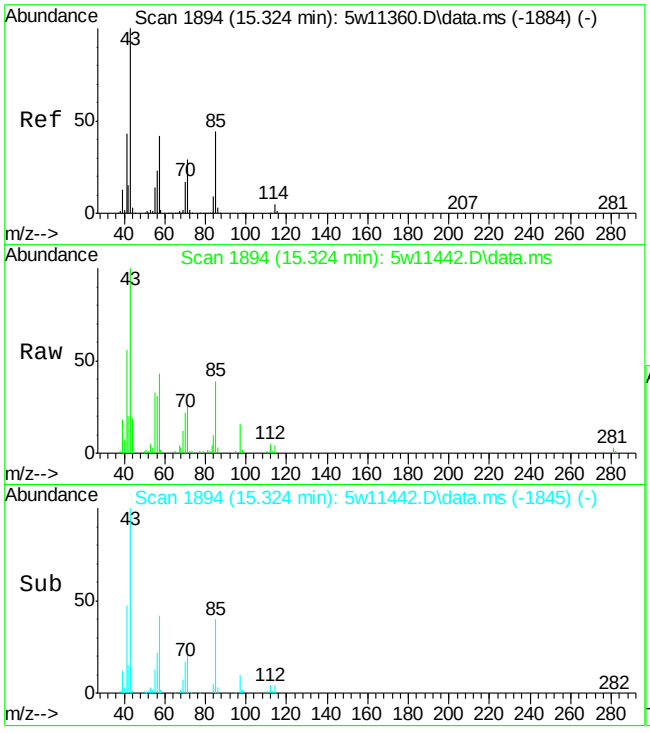


#68
2-Hexanone
Concen: 0.23 ppb(v)
RT: 14.357 min Scan# 1736
Delta R.T. -0.012 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 58 Resp: 4875

Ion	Ratio	Lower	Upper
58	100		
43	204.9	122.7	227.9
85	24.0	10.6	19.6#
100	16.3	12.4	23.0

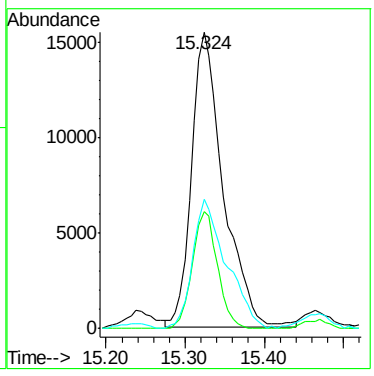


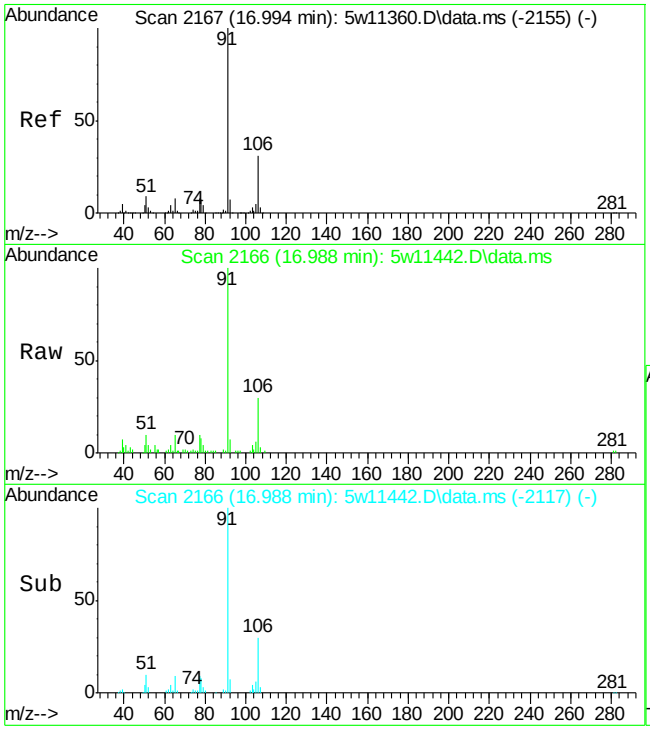


#73
Octane
Concen: 1.24 ppb(v)
RT: 15.324 min Scan# 1894
Delta R.T. -0.030 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 43 Resp: 43295

Ion	Ratio	Lower	Upper
43	100		
85	39.3	31.6	58.8
57	43.4	29.5	54.7

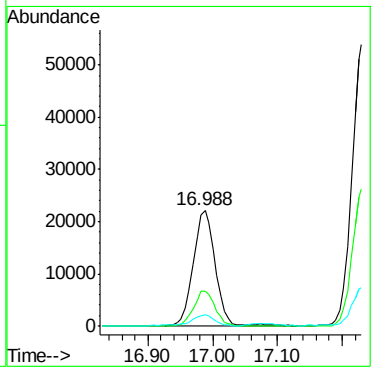


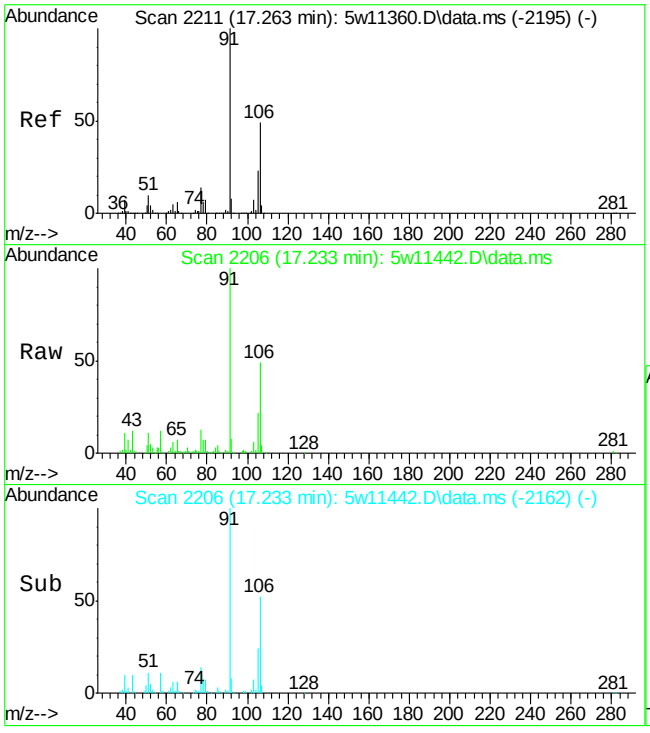


#77
Ethylbenzene
Concen: 0.71 ppb(v)
RT: 16.988 min Scan# 2166
Delta R.T. -0.030 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 91 Resp: 52270

Ion	Ratio	Lower	Upper
91	100		
106	29.8	21.9	40.7
77	9.6	6.0	11.2

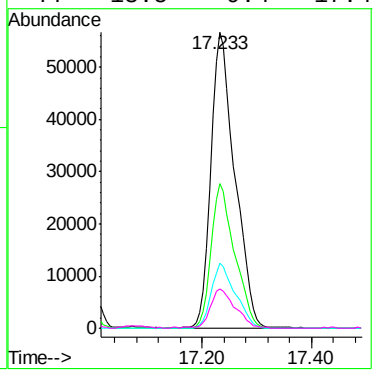


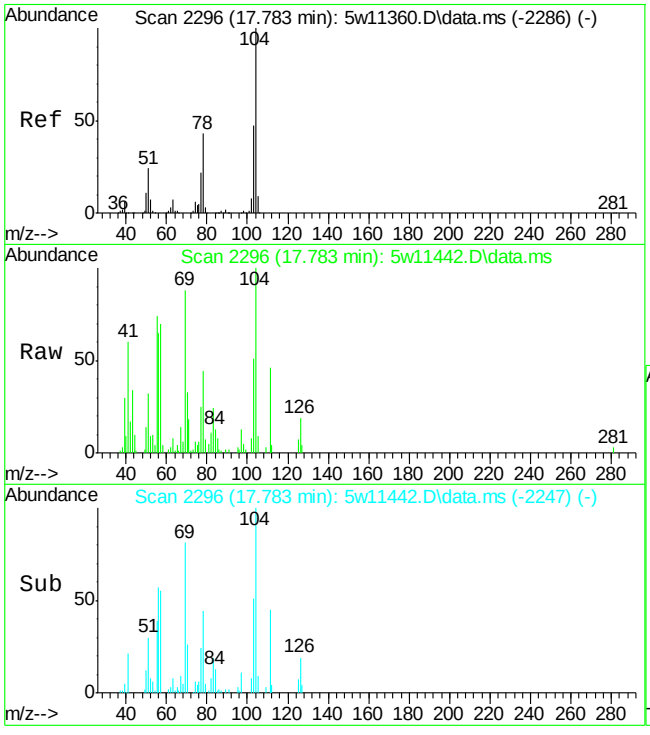


#78
m,p-Xylene
Concen: 2.89 ppb(v)
RT: 17.233 min Scan# 2206
Delta R.T. -0.061 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 91 Resp: 171336

Ion	Ratio	Lower	Upper
91	100		
106	49.0	35.1	65.1
105	21.9	16.0	29.8
77	13.5	9.4	17.4

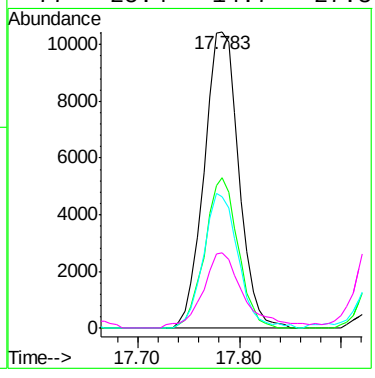


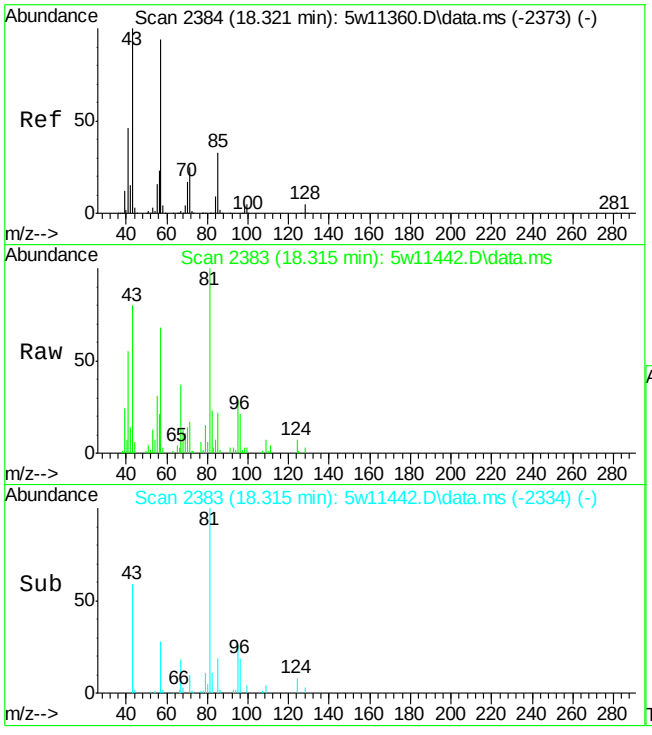


#79
Styrene
Concen: 0.60 ppb(v)
RT: 17.783 min Scan# 2296
Delta R.T. -0.030 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion:104 Resp: 24829

Ion	Ratio	Lower	Upper
104	100		
103	50.6	33.2	61.6
78	44.5	29.1	54.1
77	25.4	14.7	27.3

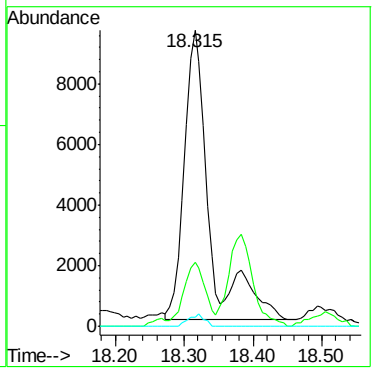


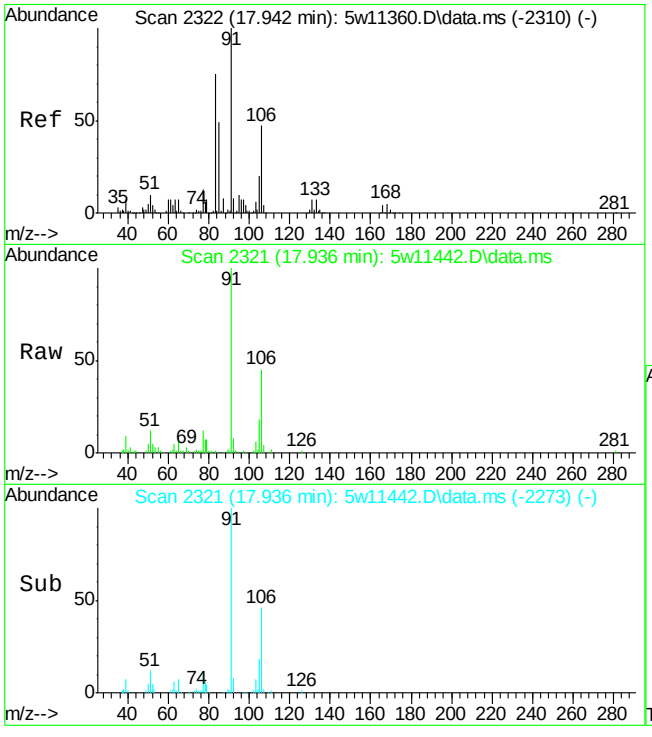


#80
Nonane
Concen: 0.64 ppb(v)
RT: 18.315 min Scan# 2383
Delta R.T. -0.030 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 43 Resp: 24002

Ion	Ratio	Lower	Upper
43	100		
71	21.7	18.4	34.2
128	3.2	3.6	6.8#

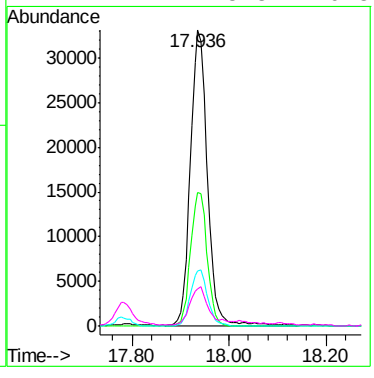


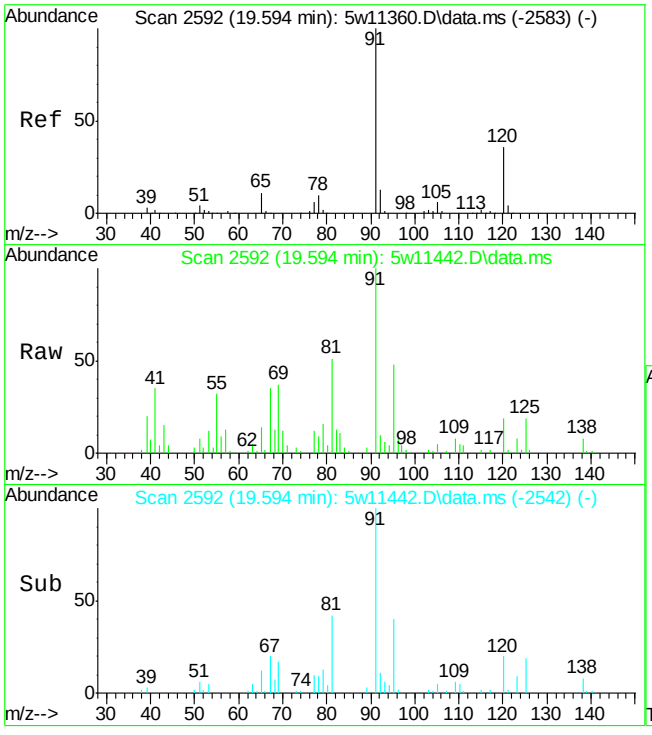


#81
o-Xylene
Concen: 1.40 ppb(v)
RT: 17.936 min Scan# 2321
Delta R.T. -0.037 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion: 91 Resp: 80670

Ion	Ratio	Lower	Upper
91	100		
106	45.2	33.5	62.1
105	18.4	13.4	24.8
77	12.4	8.8	16.3

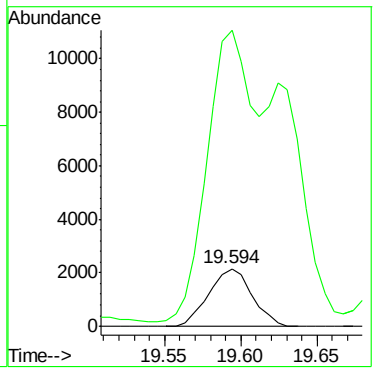


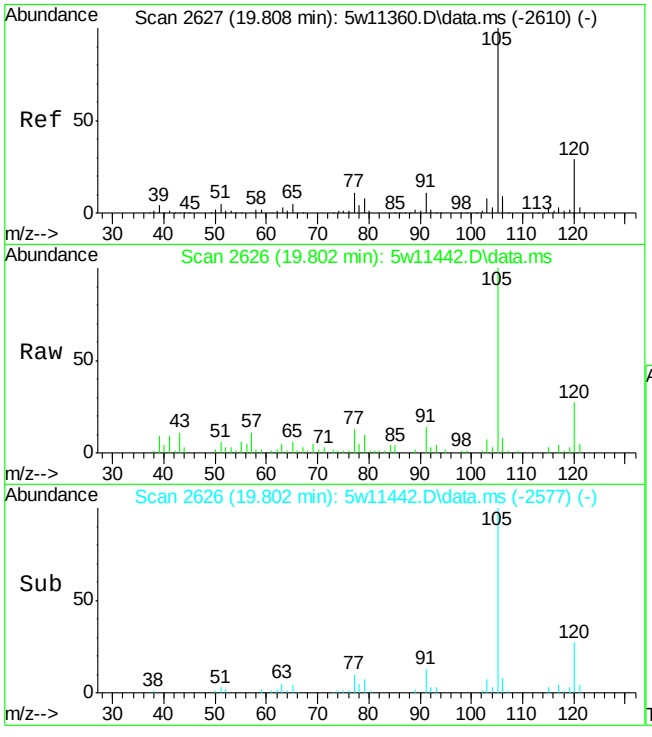


#88
n-Propylbenzene
Concen: 0.21 ppb(v)
RT: 19.594 min Scan# 2592
Delta R.T. -0.024 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion:120 Resp: 4250

Ion	Ratio	Lower	Upper
120	100		
91	515.1	323.0	599.8

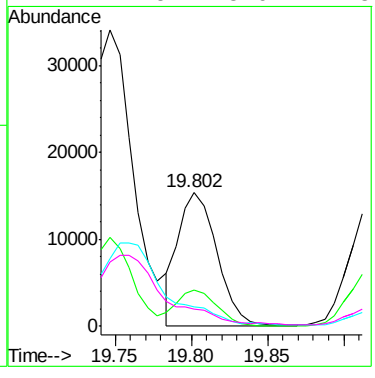


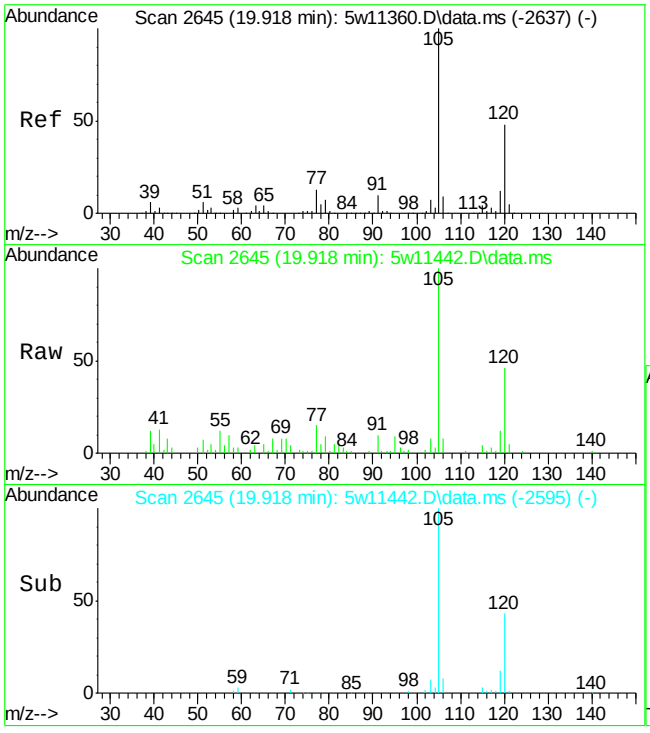


#90
4-Ethyltoluene
Concen: 0.35 ppb(v)
RT: 19.802 min Scan# 2626
Delta R.T. -0.030 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion:105 Resp: 27103

Ion	Ratio	Lower	Upper
105	100		
120	26.7	20.6	38.2
91	14.5	7.6	14.0#
77	12.5	8.0	14.8

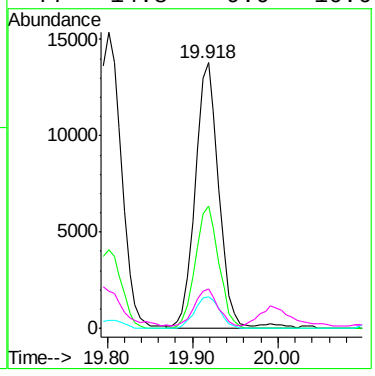


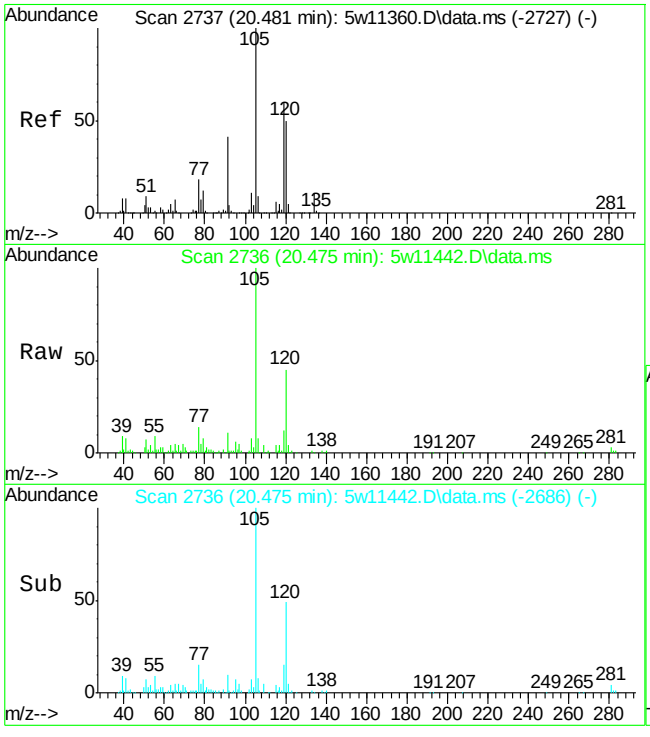


#91
1,3,5-Trimethylbenzene
Concen: 0.41 ppb(v)
RT: 19.918 min Scan# 2645
Delta R.T. -0.024 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion:105 Resp: 26559

Ion	Ratio	Lower	Upper
105	100		
120	46.3	34.2	63.4
119	11.9	8.8	16.4
77	14.8	9.0	16.6

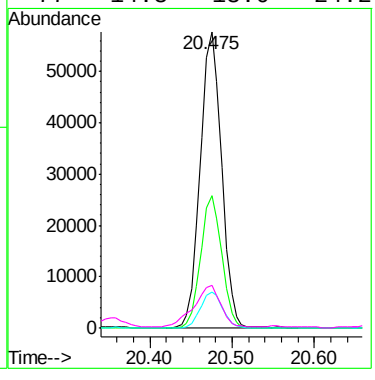




#94
1,2,4-Trimethylbenzene
Concen: 1.60 ppb(v)
RT: 20.475 min Scan# 2736
Delta R.T. -0.024 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

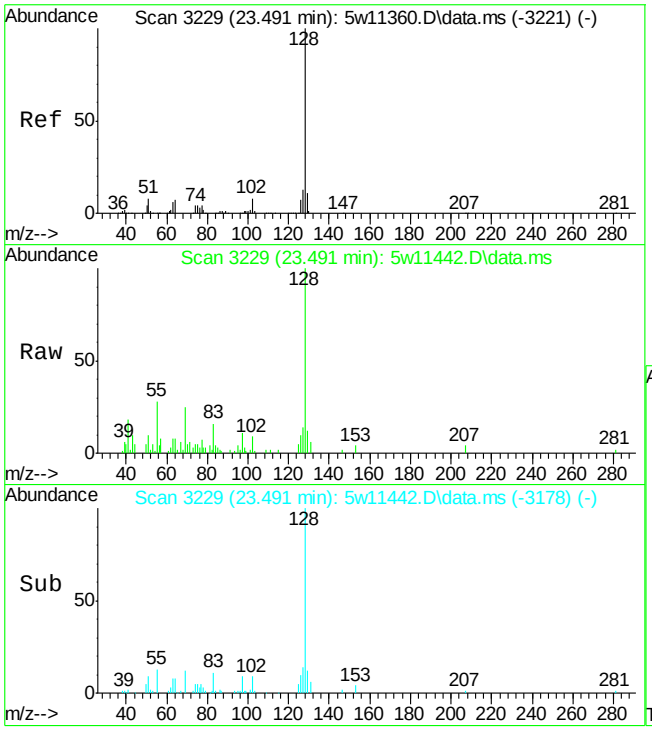
Tgt Ion:105 Resp: 104273

Ion	Ratio	Lower	Upper
105	100		
120	44.9	35.0	65.0
119	12.3	45.2	84.0#
77	14.3	13.0	24.2



7.1.9

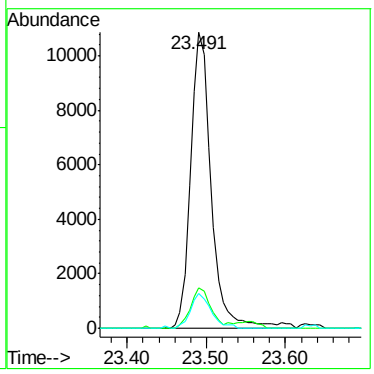
7



#104
Naphthalene
Concen: 0.37 ppb(v)
RT: 23.491 min Scan# 3229
Delta R.T. -0.018 min
Lab File: 5w11442.D
Acq: 8 May 2015 7:17 pm

Tgt Ion:128 Resp: 19751

Ion	Ratio	Lower	Upper
128	100		
127	13.7	8.8	16.4
129	11.7	7.6	14.2



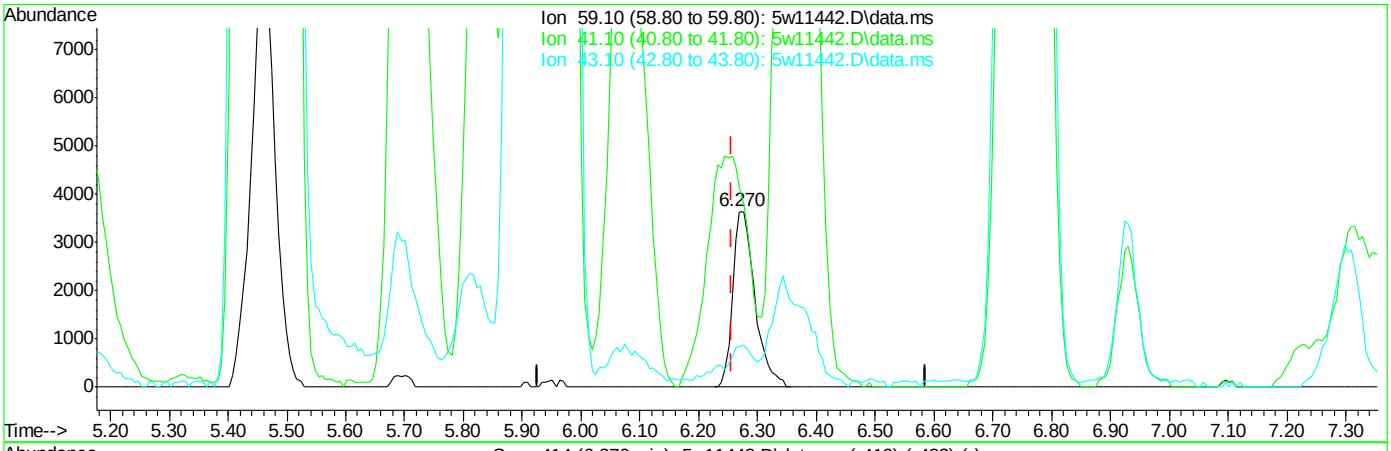
7.1.9

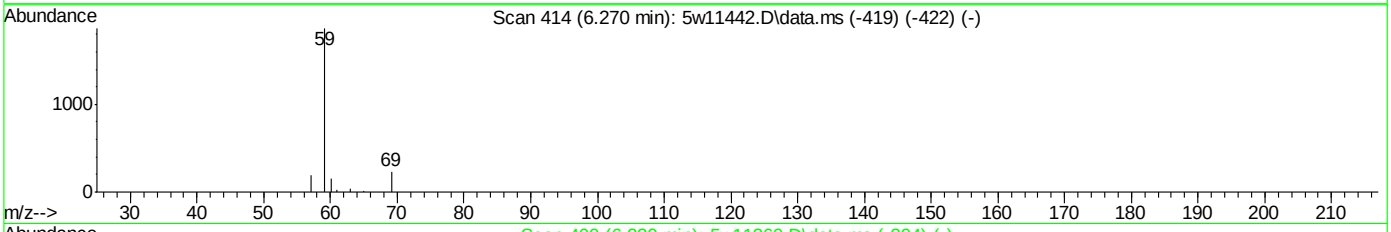
7

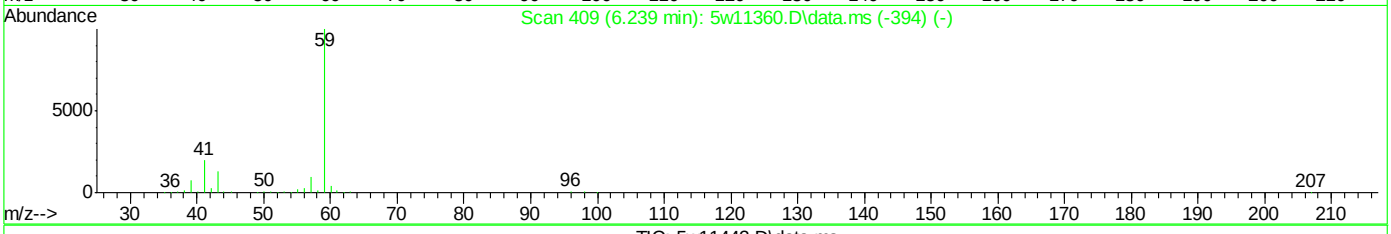
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11442.D
Acq On : 8 May 2015 7:17 pm
Operator : mikel1
Sample : JB94203-5
Misc : MS84855,v5w449,100,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 09 07:01:24 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration







TIC: 5w11442.D\data.ms

(34) tert-Butyl Alcohol

6.270min (+0.013) 0.29ppb(v)

response 9478

Ion	Exp%	Act%
59.10	100	100
41.10	19.10	114.00#
43.10	13.30	23.09#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11492.D
Acq On : 11 May 2015 5:59 pm
Operator : mikel1
Sample : JB94203-5
Misc : MS84855,v5w451,20,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 12 08:22:35 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

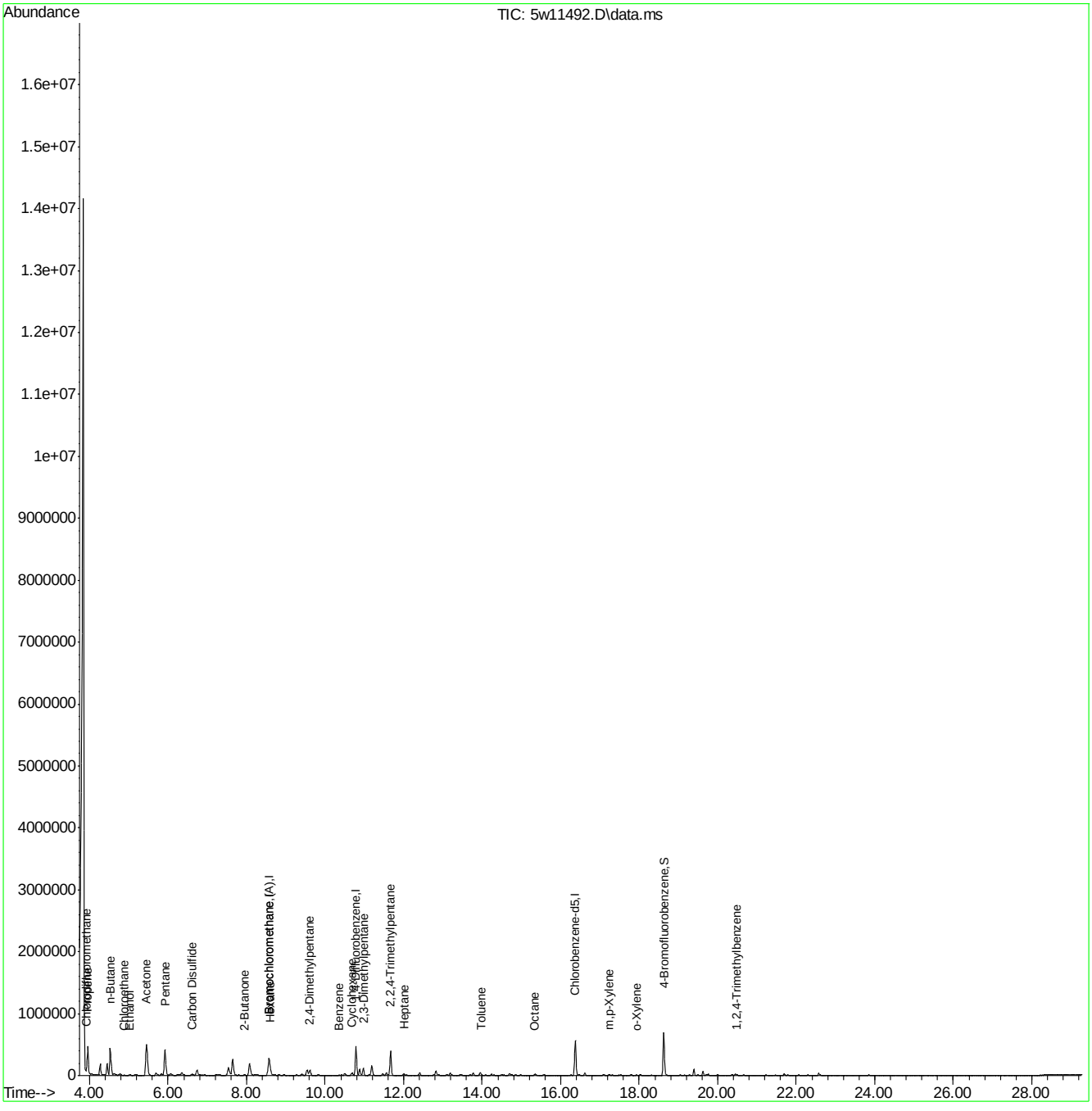
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.570	130	128242	10.00	ppb(v	# 0.00
53) 1,4-Difluorobenzene	10.784	114	469232	10.00	ppb(v	-0.02
75) Chlorobenzene-d5	16.370	82	249036	10.00	ppb(v	-0.04
106) Bromochloromethane (A)	8.570	130	128242	10.00	ppb(v	# 0.00
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.627	95	316183	9.74	ppb(v	-0.04
Spiked Amount 10.000	Range 65 - 128		Recovery = 97.40%			
Target Compounds						Qvalue
4) Chlorodifluoromethane	3.908	67	1519	0.50	ppb(v	97
5) Propene	3.939	41	197162	21.37	ppb(v	96
12) n-Butane	4.526	58	58793	32.05	ppb(v#	80
14) Chloroethane	4.887	64	1188	0.19	ppb(v#	88
21) Acetone	5.438	58	112944	18.79	ppb(v#	1
22) Pentane	5.921	57	63853	20.75	ppb(v	91
29) Carbon Disulfide	6.612	76	35030	0.92	ppb(v	99
30) Ethanol	5.028	45	4539	0.75	ppb(v	91
38) 2-Butanone	7.940	72	2081	0.31	ppb(v	88
39) Hexane	8.600	57	70703	3.29	ppb(v#	39
45) 2,4-Dimethylpentane	9.604	57	51613	2.23	ppb(v	96
49) Benzene	10.362	78	6828	0.16	ppb(v	97
51) Cyclohexane	10.687	56	27609	1.36	ppb(v	98
52) 2,3-Dimethylpentane	10.974	71	23792	2.82	ppb(v	93
54) 2,2,4-Trimethylpentane	11.672	57	430610	6.88	ppb(v	94
55) Heptane	12.002	71	7987	0.64	ppb(v	93
66) Toluene	13.972	91	16436	0.33	ppb(v	95
73) Octane	15.324	43	4547	0.15	ppb(v	95
78) m,p-Xylene	17.233	91	17563	0.36	ppb(v	99
81) o-Xylene	17.936	91	8295	0.18	ppb(v	99
94) 1,2,4-Trimethylbenzene	20.475	105	10428	0.20	ppb(v#	63

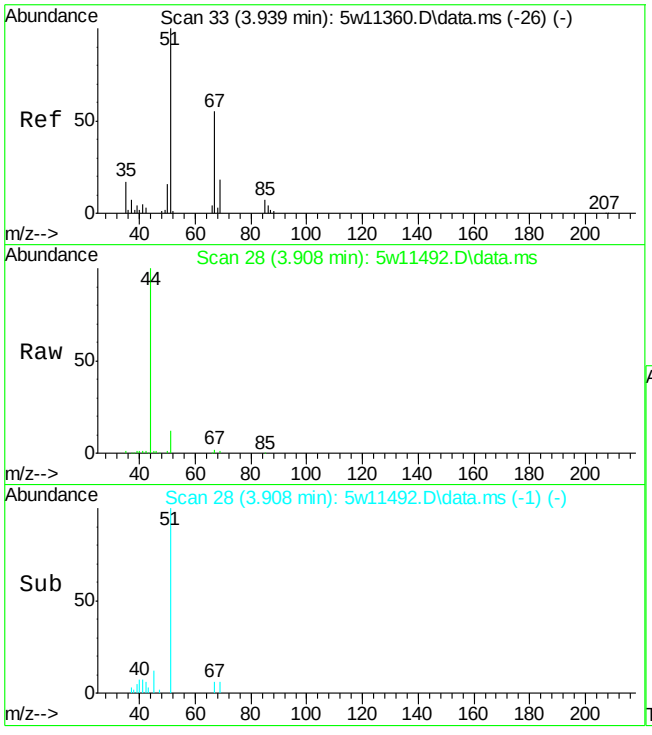
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11492.D
Acq On : 11 May 2015 5:59 pm
Operator : mikel1
Sample : JB94203-5
Misc : MS84855,v5w451,20,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 12 08:22:35 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

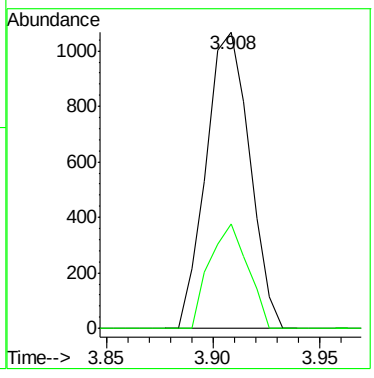


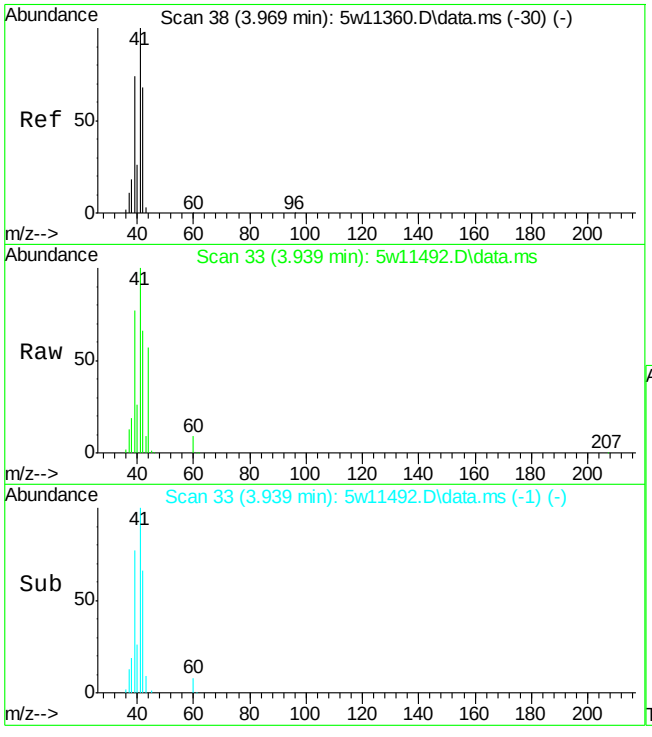


#4
Chlorodifluoromethane
Concen: 0.50 ppb(v)
RT: 3.908 min Scan# 28
Delta R.T. -0.037 min
Lab File: 5w11492.D
Acq: 11 May 2015 5:59 pm

Tgt Ion: 67 Resp: 1519

Ion	Ratio	Lower	Upper
67	100		
69	35.2	23.3	43.3

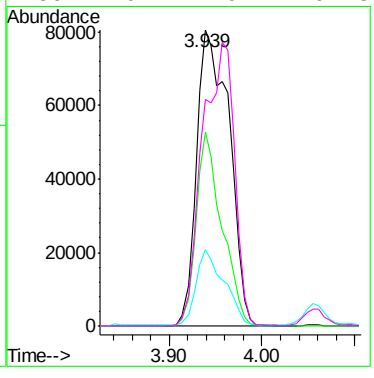


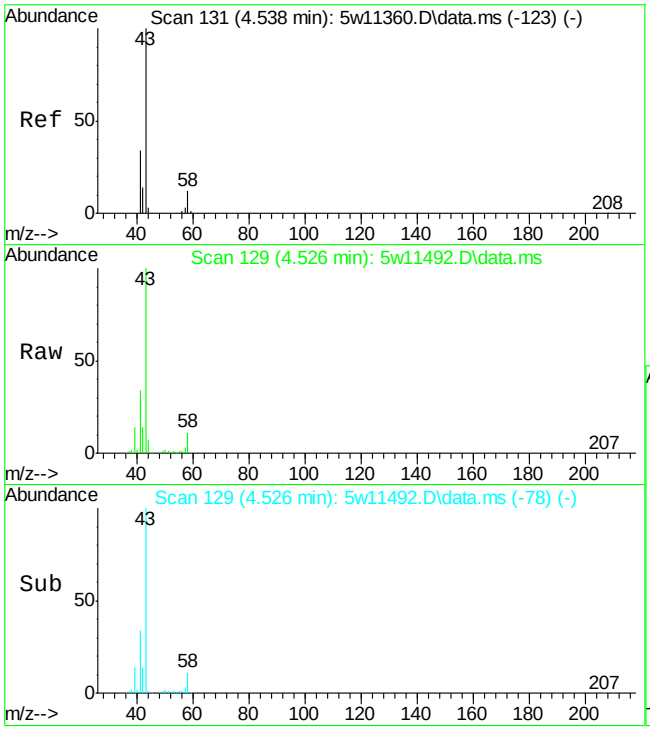


#5
Propene
Concen: 21.37 ppb(v)
RT: 3.939 min Scan# 33
Delta R.T. -0.030 min
Lab File: 5w11492.D
Acq: 11 May 2015 5:59 pm

Tgt Ion: 41 Resp: 197162

Ion	Ratio	Lower	Upper
41	100		
42	65.7	45.0	83.6
40	25.7	17.9	33.3
39	76.7	49.7	92.3

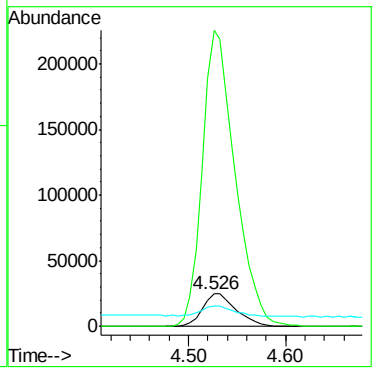


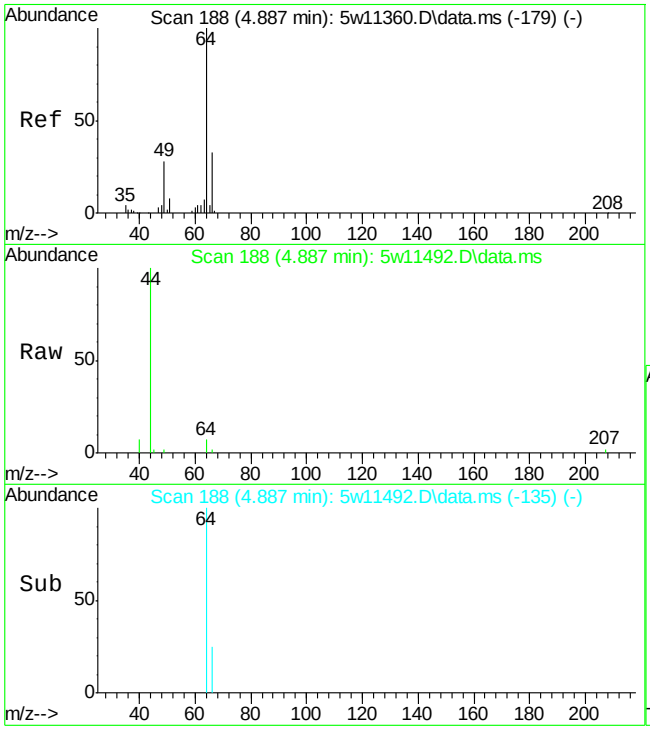


#12
n-Butane
Concen: 32.05 ppb(v)
RT: 4.526 min Scan# 129
Delta R.T. -0.018 min
Lab File: 5w11492.D
Acq: 11 May 2015 5:59 pm

Tgt Ion: 58 Resp: 58793

Ion	Ratio	Lower	Upper
58	100		
43	908.5	583.8	1084.2
44	63.5	25.6	47.6#

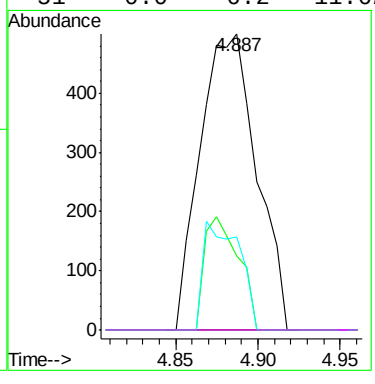


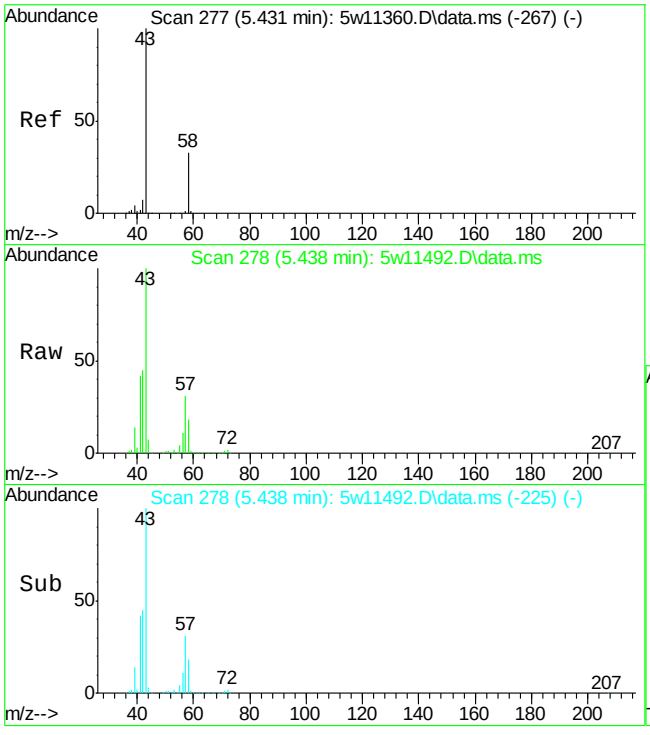


#14
Chloroethane
Concen: 0.19 ppb(v)
RT: 4.887 min Scan# 188
Delta R.T. -0.006 min
Lab File: 5w11492.D
Acq: 11 May 2015 5:59 pm

Tgt Ion: 64 Resp: 1188

Ion	Ratio	Lower	Upper
64	100		
66	25.0	22.3	41.5
49	31.6	19.3	35.8
51	0.0	6.2	11.6#

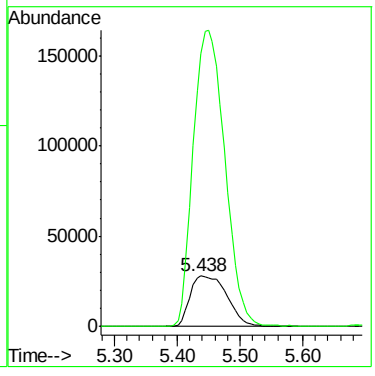


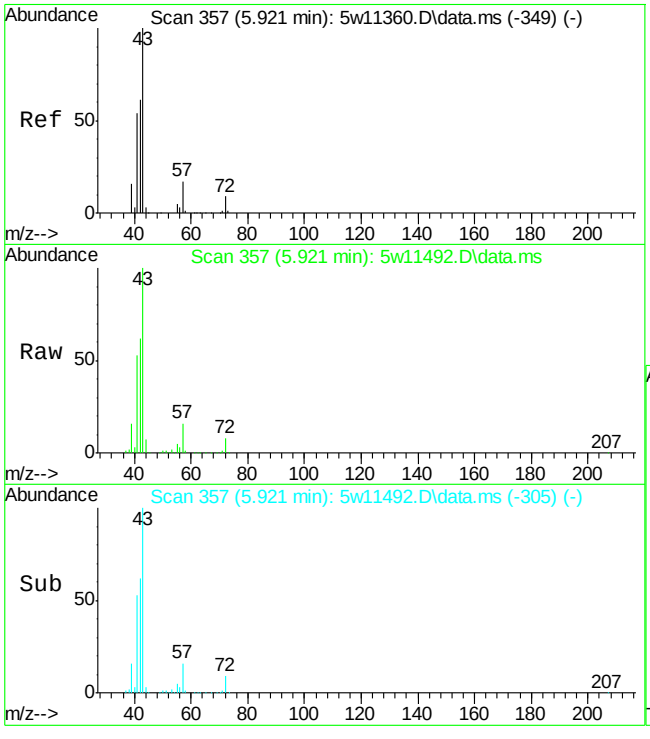


#21
Acetone
Concen: 18.79 ppb(v)
RT: 5.438 min Scan# 278
Delta R.T. -0.006 min
Lab File: 5w11492.D
Acq: 11 May 2015 5:59 pm

Tgt Ion: 58 Resp: 112944

Ion	Ratio	Lower	Upper
58	100		
43	542.0	217.8	404.6#

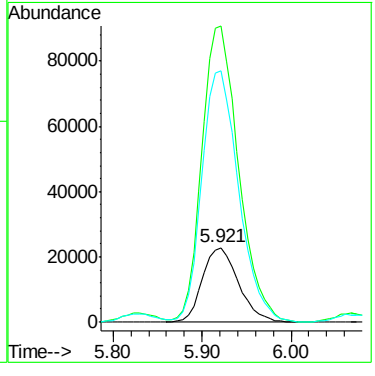


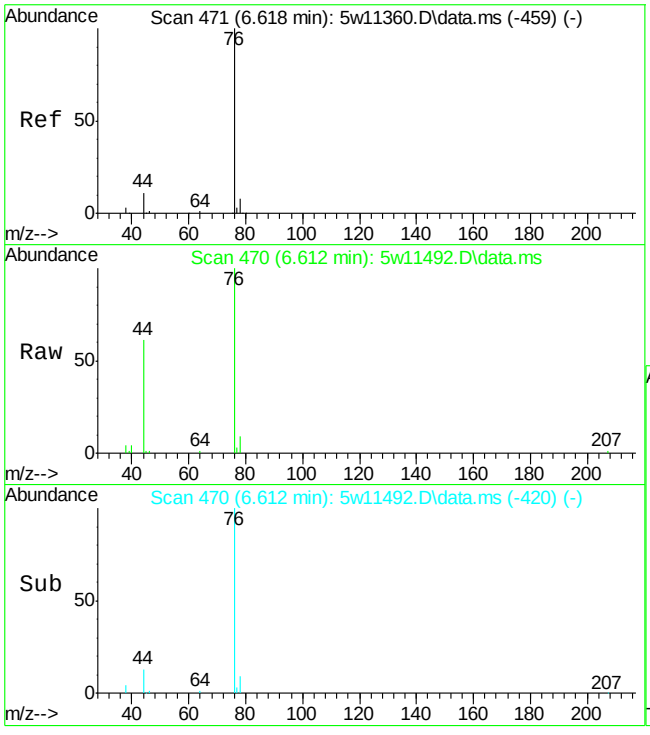


#22
Pentane
Concen: 20.75 ppb(v)
RT: 5.921 min Scan# 357
Delta R.T. -0.012 min
Lab File: 5w11492.D
Acq: 11 May 2015 5:59 pm

Tgt Ion: 57 Resp: 63853

Ion	Ratio	Lower	Upper
57	100		
42	397.4	262.5	487.5
41	336.7	225.7	419.1

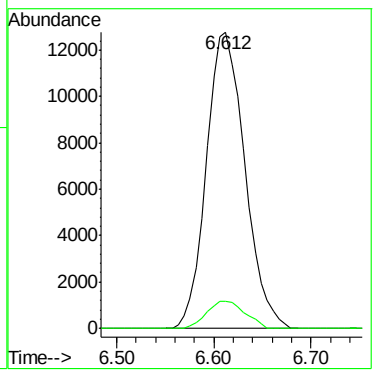


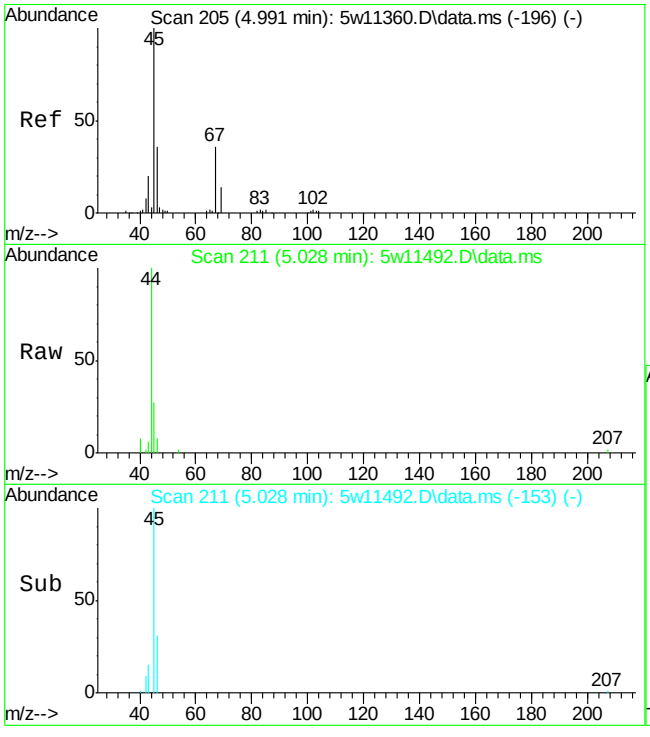


#29
Carbon Disulfide
Concen: 0.92 ppb(v)
RT: 6.612 min Scan# 470
Delta R.T. -0.025 min
Lab File: 5w11492.D
Acq: 11 May 2015 5:59 pm

Tgt Ion: 76 Resp: 35030

Ion	Ratio	Lower	Upper
76	100		
78	9.0	6.6	12.4

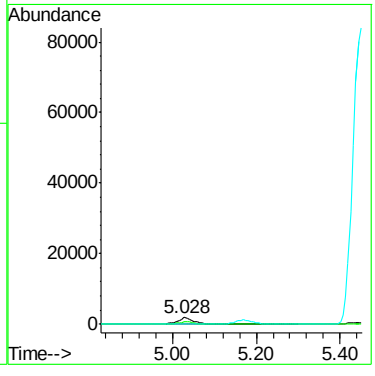


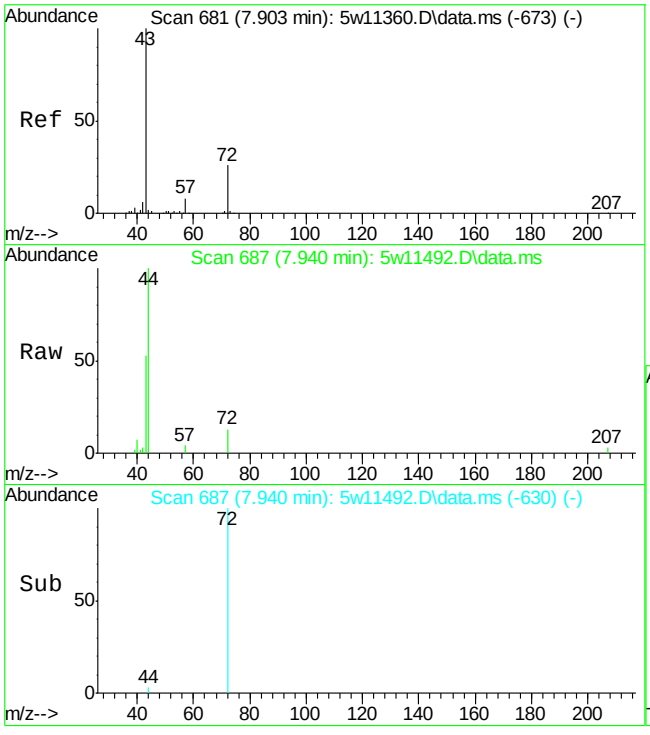


#30
Ethanol
Concen: 0.75 ppb(v)
RT: 5.028 min Scan# 211
Delta R.T. 0.025 min
Lab File: 5w11492.D
Acq: 11 May 2015 5:59 pm

Tgt Ion: 45 Resp: 4539

Ion	Ratio	Lower	Upper
45	100		
46	29.3	24.6	45.6
42	8.7	5.5	10.1

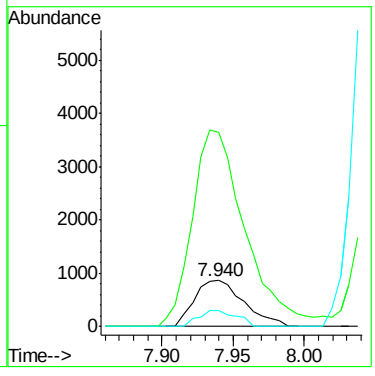


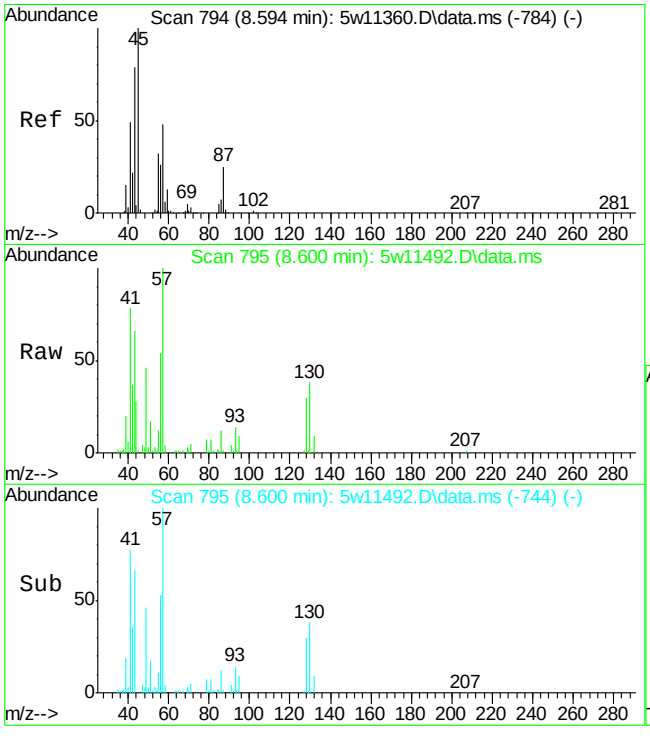


#38
2-Butanone
Concen: 0.31 ppb(v)
RT: 7.940 min Scan# 687
Delta R.T. 0.019 min
Lab File: 5w11492.D
Acq: 11 May 2015 5:59 pm

Tgt Ion: 72 Resp: 2081

Ion	Ratio	Lower	Upper
72	100		
43	422.2	274.1	508.9
57	33.6	22.1	41.1

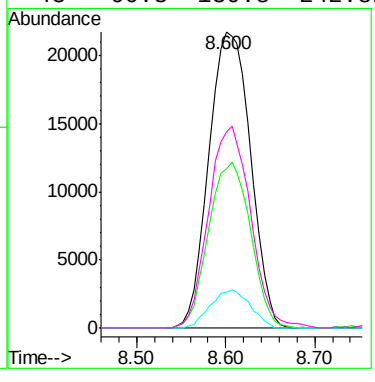


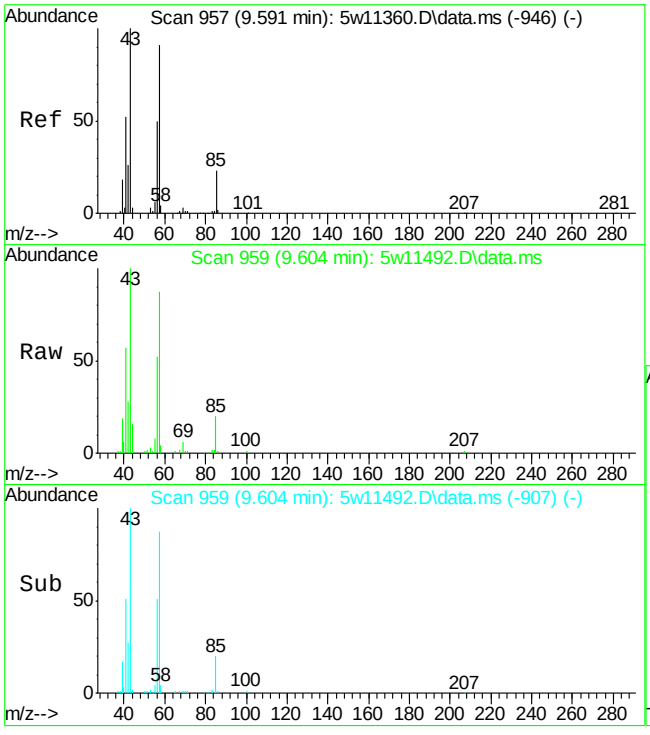


#39
Hexane
Concen: 3.29 ppb(v)
RT: 8.600 min Scan# 795
Delta R.T. -0.018 min
Lab File: 5w11492.D
Acq: 11 May 2015 5:59 pm

Tgt Ion: 57 Resp: 70703

Ion	Ratio	Lower	Upper
57	100		
56	53.8	37.4	69.4
86	12.3	10.4	19.2
43	66.3	130.8	242.8#

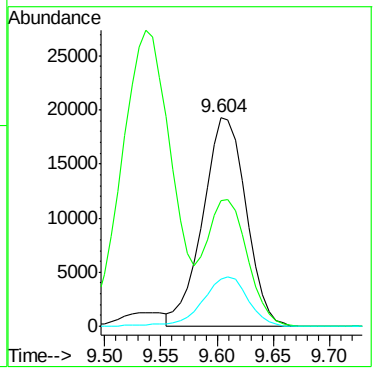


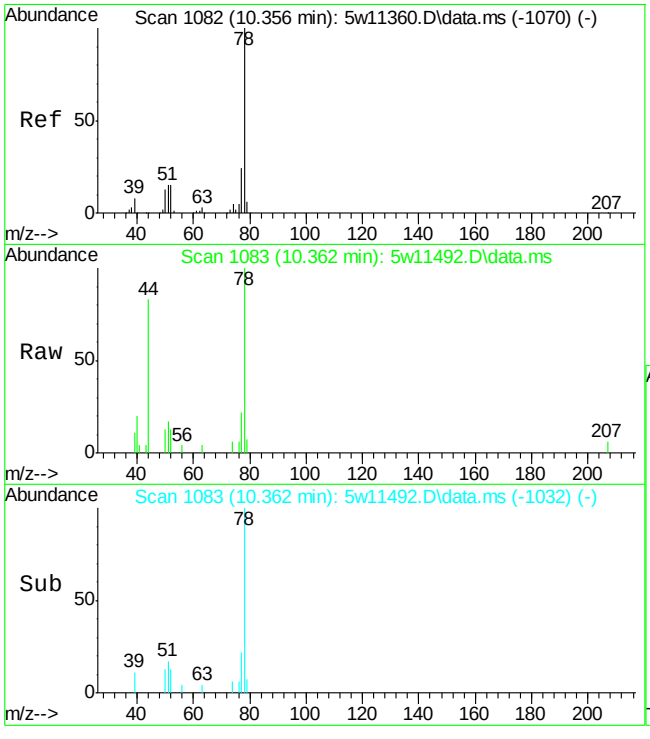


#45
2,4-Dimethylpentane
Concen: 2.23 ppb(v)
RT: 9.604 min Scan# 959
Delta R.T. -0.012 min
Lab File: 5w11492.D
Acq: 11 May 2015 5:59 pm

Tgt Ion: 57 Resp: 51613

Ion	Ratio	Lower	Upper
57	100		
56	59.9	40.3	74.9
85	22.8	18.6	34.6

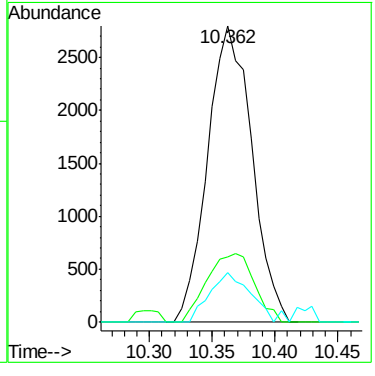


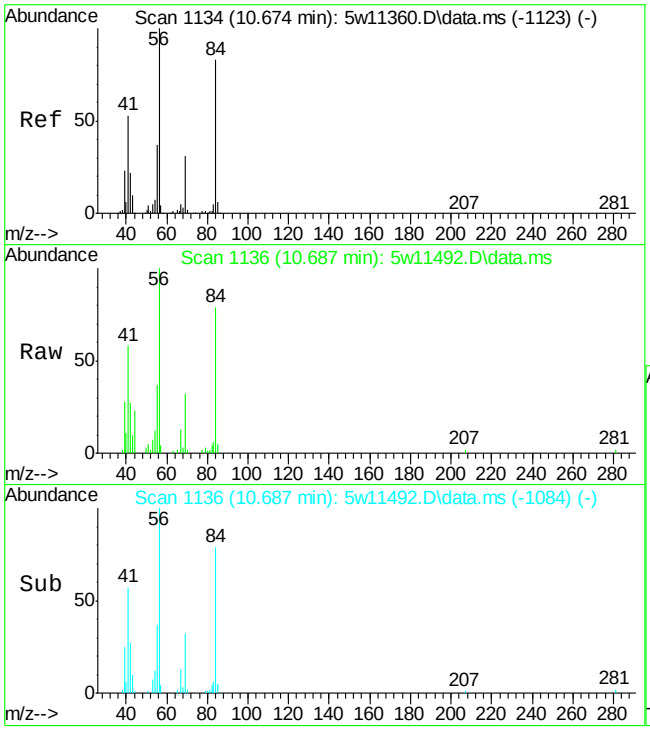


#49
Benzene
Concen: 0.16 ppb(v)
RT: 10.362 min Scan# 1083
Delta R.T. -0.018 min
Lab File: 5w11492.D
Acq: 11 May 2015 5:59 pm

Tgt Ion: 78 Resp: 6828

Ion	Ratio	Lower	Upper
78	100		
77	22.1	16.6	30.8
51	16.6	10.6	19.6

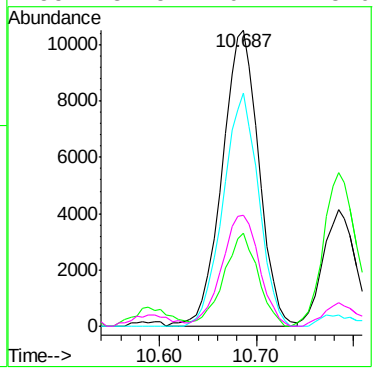


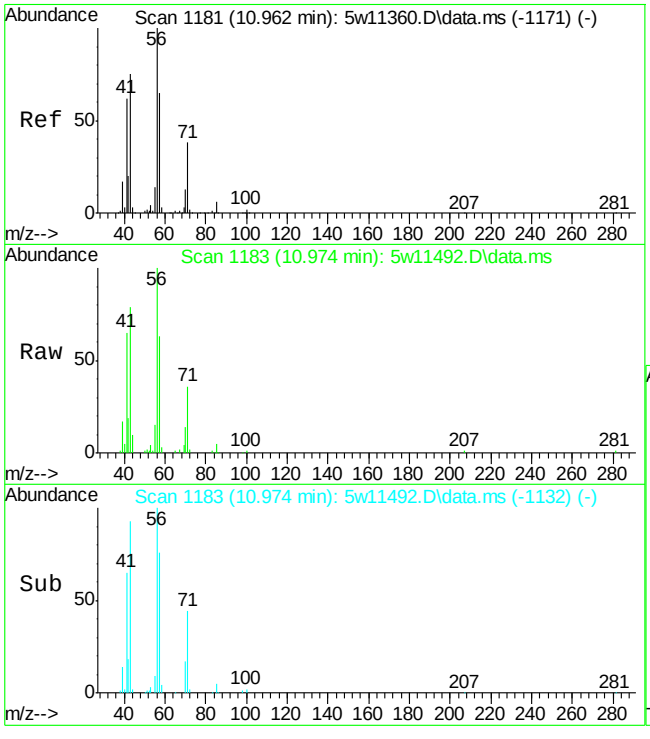


#51
Cyclohexane
Concen: 1.36 ppb(v)
RT: 10.687 min Scan# 1136
Delta R.T. -0.012 min
Lab File: 5w11492.D
Acq: 11 May 2015 5:59 pm

Tgt Ion: 56 Resp: 27609

Ion	Ratio	Lower	Upper
56	100		
69	31.6	22.1	41.1
84	79.0	57.8	107.4
55	37.5	26.2	48.6

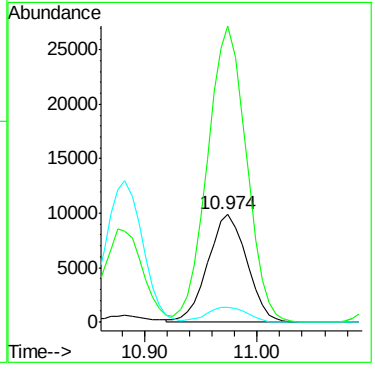


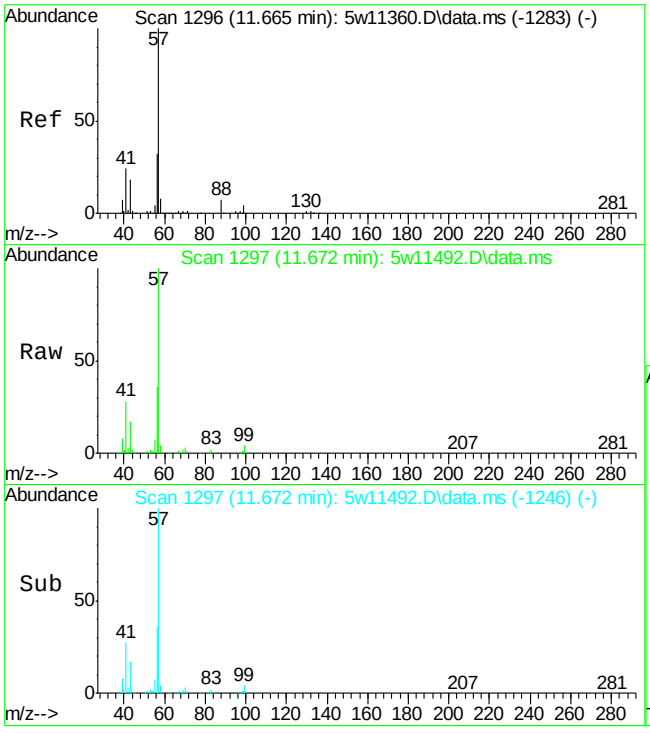


#52
2,3-Dimethylpentane
Concen: 2.82 ppb(v)
RT: 10.974 min Scan# 1183
Delta R.T. -0.018 min
Lab File: 5w11492.D
Acq: 11 May 2015 5:59 pm

Tgt Ion: 71 Resp: 23792

Ion	Ratio	Lower	Upper
71	100		
56	274.2	183.3	340.5
85	13.6	10.8	20.0

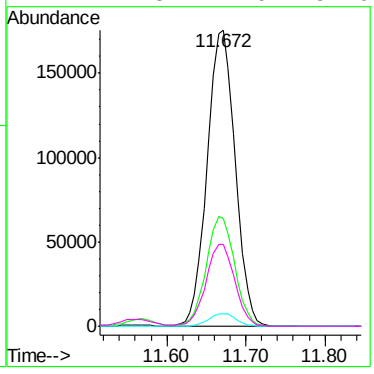


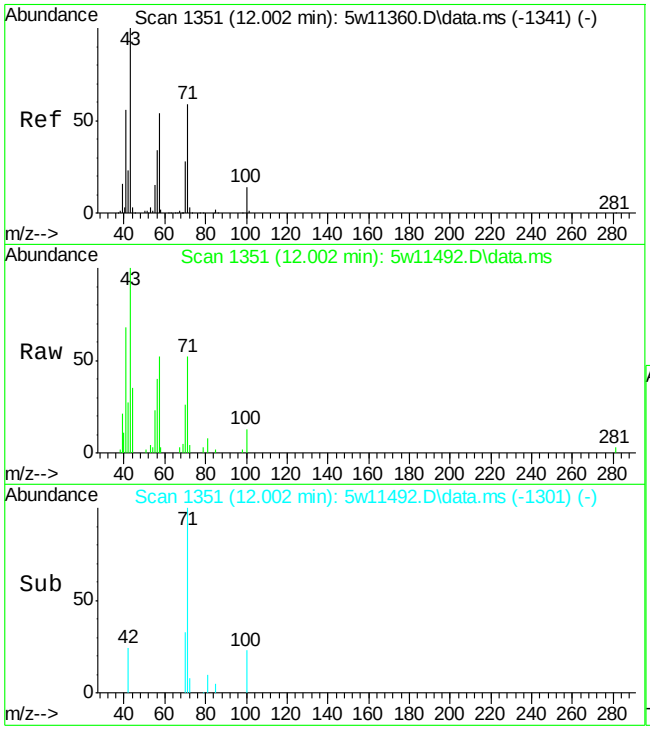


#54
2,2,4-Trimethylpentane
Concen: 6.88 ppb(v)
RT: 11.672 min Scan# 1297
Delta R.T. -0.018 min
Lab File: 5w11492.D
Acq: 11 May 2015 5:59 pm

Tgt Ion: 57 Resp: 430610

Ion	Ratio	Lower	Upper
57	100		
56	36.4	23.2	43.0
99	4.1	3.4	6.4
41	27.5	17.0	31.6

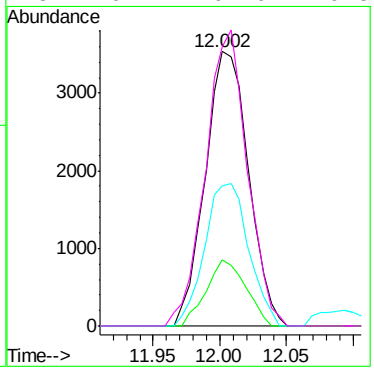


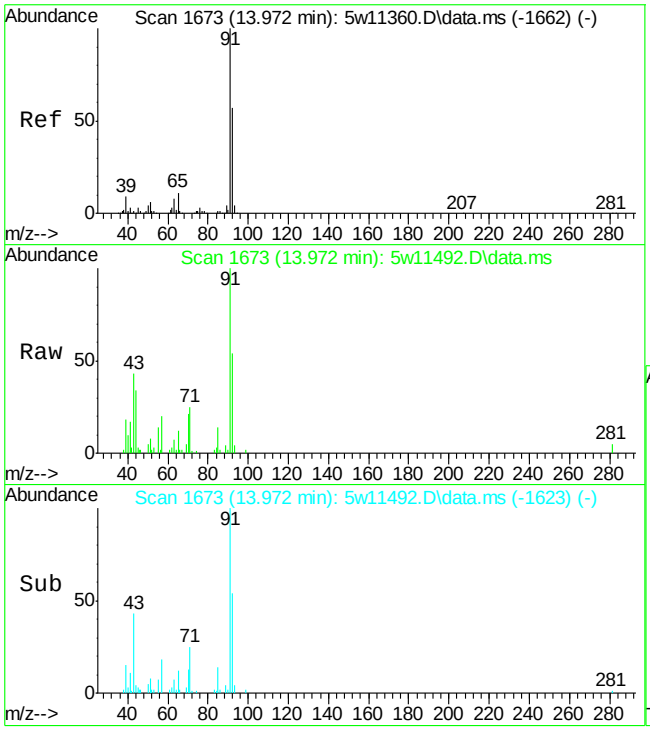


#55
Heptane
Concen: 0.64 ppb(v)
RT: 12.002 min Scan# 1351
Delta R.T. -0.024 min
Lab File: 5w11492.D
Acq: 11 May 2015 5:59 pm

Tgt Ion: 71 Resp: 7987

Ion	Ratio	Lower	Upper
71	100		
100	24.3	18.3	33.9
70	51.1	33.5	62.1
57	101.7	64.9	120.5

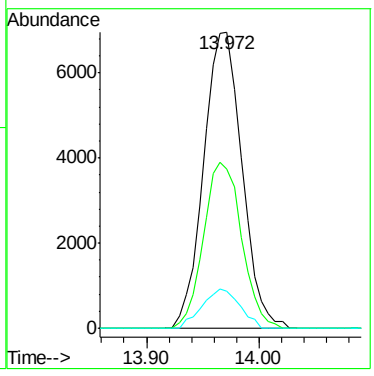


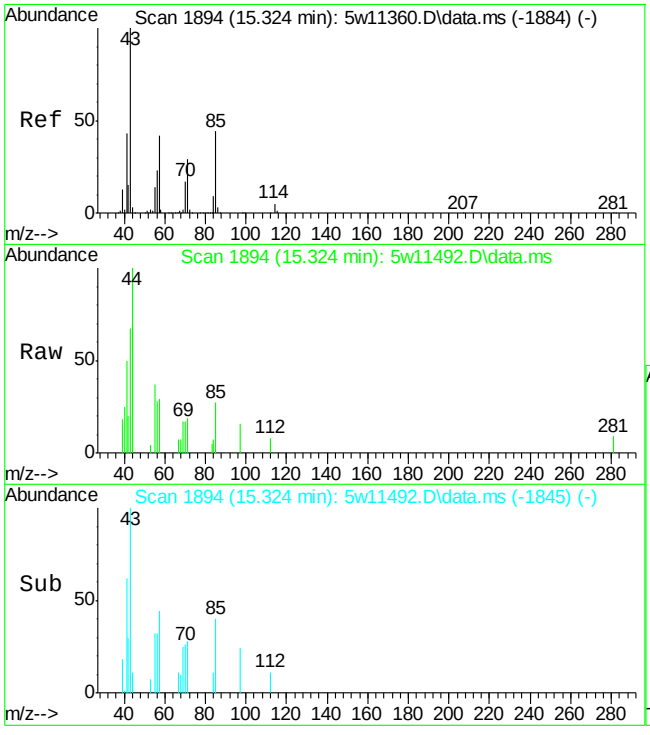


#66
Toluene
Concen: 0.33 ppb(v)
RT: 13.972 min Scan# 1673
Delta R.T. -0.024 min
Lab File: 5w11492.D
Acq: 11 May 2015 5:59 pm

Tgt Ion: 91 Resp: 16436

Ion	Ratio	Lower	Upper
91	100		
92	53.6	40.3	74.9
65	12.4	7.6	14.0

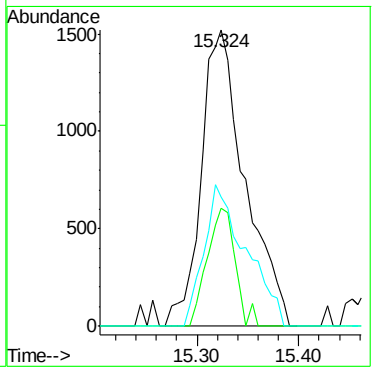


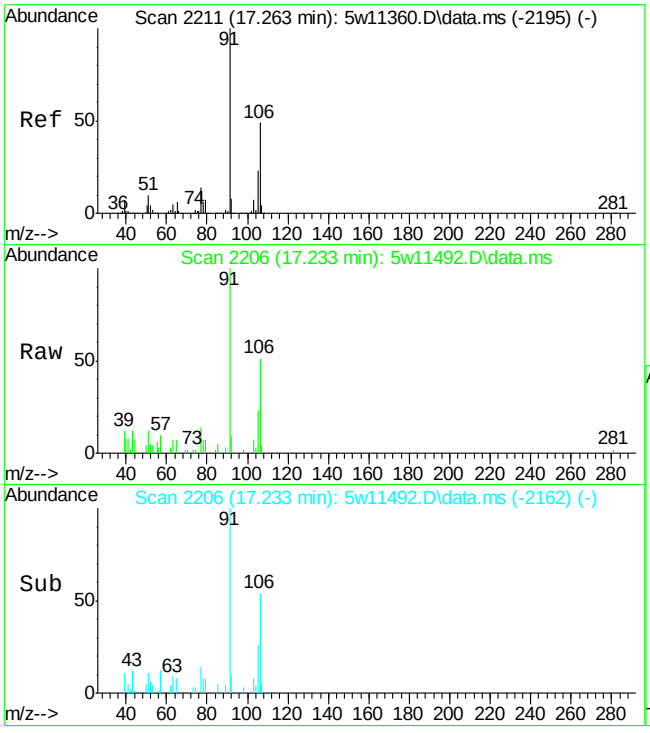


#73
Octane
Concen: 0.15 ppb(v)
RT: 15.324 min Scan# 1894
Delta R.T. -0.030 min
Lab File: 5w11492.D
Acq: 11 May 2015 5:59 pm

Tgt Ion: 43 Resp: 4547

Ion	Ratio	Lower	Upper
43	100		
85	39.8	31.6	58.8
57	43.5	29.5	54.7

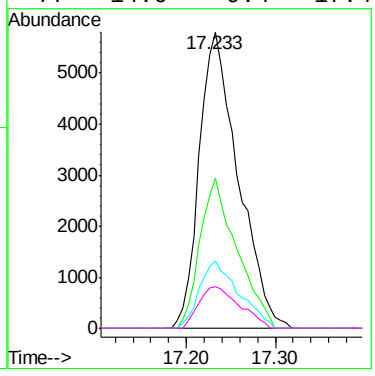


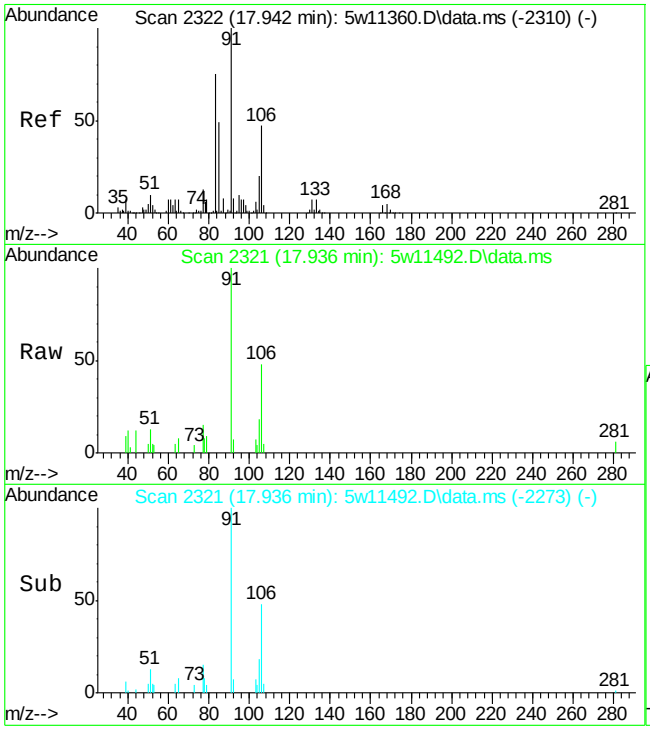


#78
m,p-Xylene
Concen: 0.36 ppb(v)
RT: 17.233 min Scan# 2206
Delta R.T. -0.061 min
Lab File: 5w11492.D
Acq: 11 May 2015 5:59 pm

Tgt Ion: 91 Resp: 17563

Ion	Ratio	Lower	Upper
91	100		
106	50.8	35.1	65.1
105	22.7	16.0	29.8
77	14.0	9.4	17.4

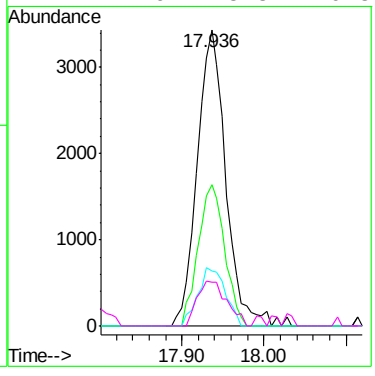


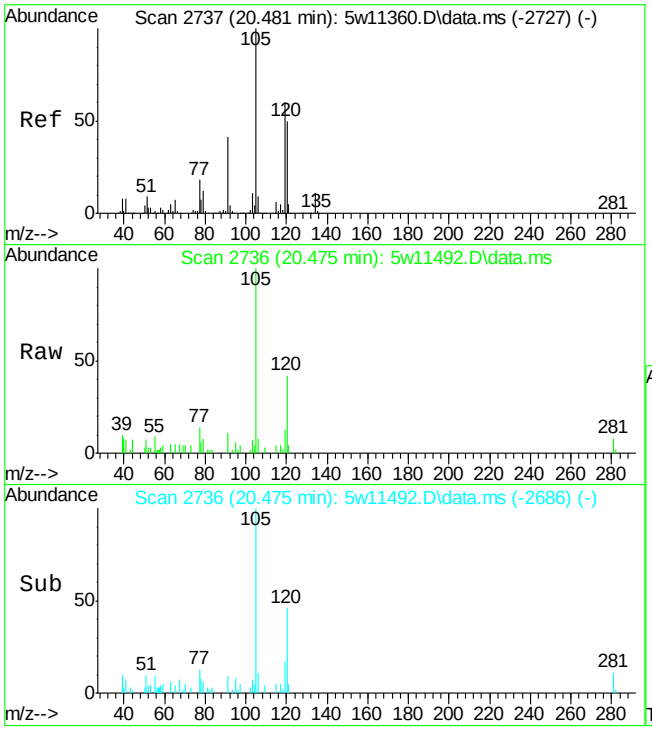


#81
o-Xylene
Concen: 0.18 ppb(v)
RT: 17.936 min Scan# 2321
Delta R.T. -0.037 min
Lab File: 5w11492.D
Acq: 11 May 2015 5:59 pm

Tgt Ion: 91 Resp: 8295

Ion	Ratio	Lower	Upper
91	100		
106	47.6	33.5	62.1
105	18.5	13.4	24.8
77	14.9	8.8	16.3

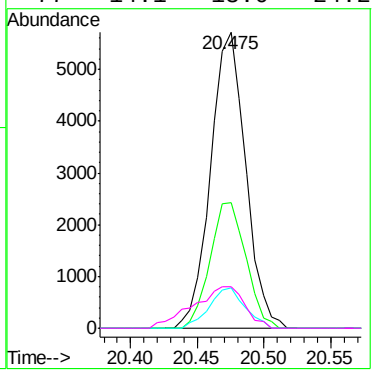




#94
1,2,4-Trimethylbenzene
Concen: 0.20 ppb(v)
RT: 20.475 min Scan# 2736
Delta R.T. -0.024 min
Lab File: 5w11492.D
Acq: 11 May 2015 5:59 pm

Tgt Ion:105 Resp: 10428

Ion	Ratio	Lower	Upper
105	100		
120	42.3	35.0	65.0
119	13.5	45.2	84.0#
77	14.1	13.0	24.2



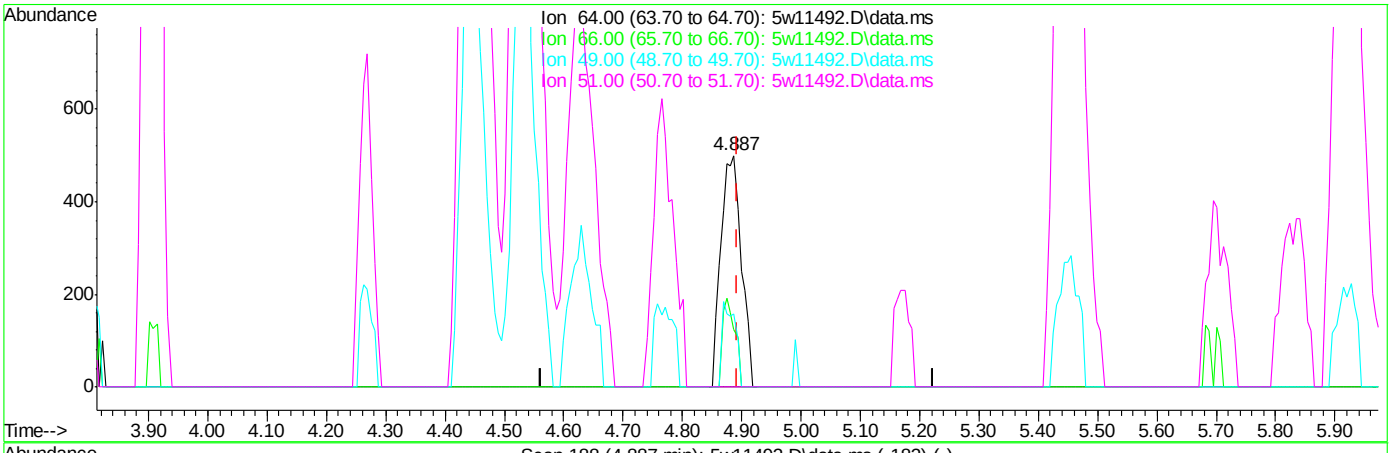
7.1.10

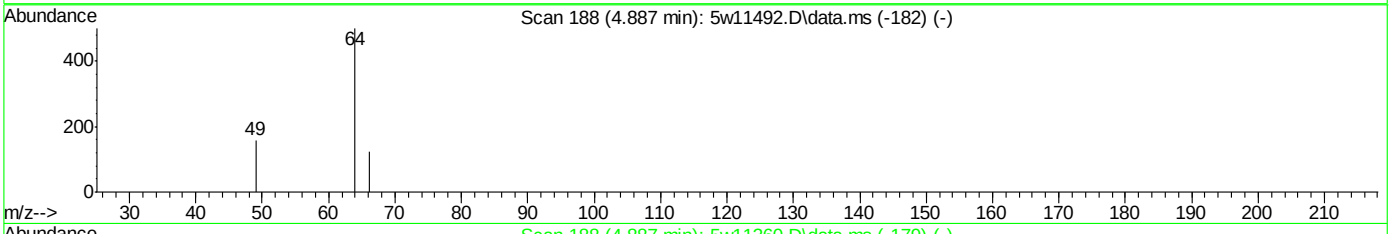
7

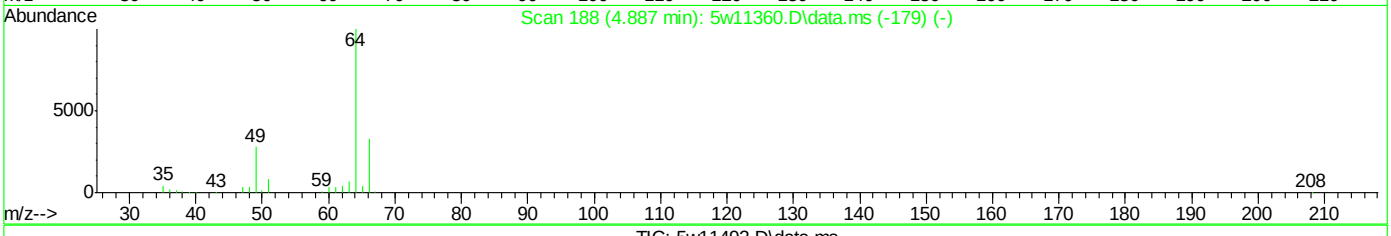
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11492.D
Acq On : 11 May 2015 5:59 pm
Operator : mikel1
Sample : JB94203-5
Misc : MS84912,v5w451,20,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 12 06:38:09 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration







TIC: 5w11492.D\data.ms

(14) Chloroethane

4.887min (-0.006) 0.19ppb(v)

response 1188

Ion	Exp%	Act%
64.00	100	100
66.00	31.90	25.00
49.00	27.50	31.60
51.00	8.90	0.00#

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11430.D
Acq On : 8 May 2015 10:32 am
Operator : mikel1
Sample : MB
Misc : MS84579,v5w449,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 08 13:31:44 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Bromochloromethane	8.545	130	130605	10.00 ppb(v	#-0.03
53) 1,4-Difluorobenzene	10.772	114	467141	10.00 ppb(v	-0.03
75) Chlorobenzene-d5	16.376	82	239111	10.00 ppb(v	-0.03
106) Bromochloromethane (A)	8.545	130	130605	10.00 ppb(v	#-0.03
System Monitoring Compounds					
89) 4-Bromofluorobenzene	18.627	95	299860	9.62 ppb(v	-0.04
Spiked Amount 10.000	Range 65 - 128		Recovery = 96.20%		
Target Compounds					Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

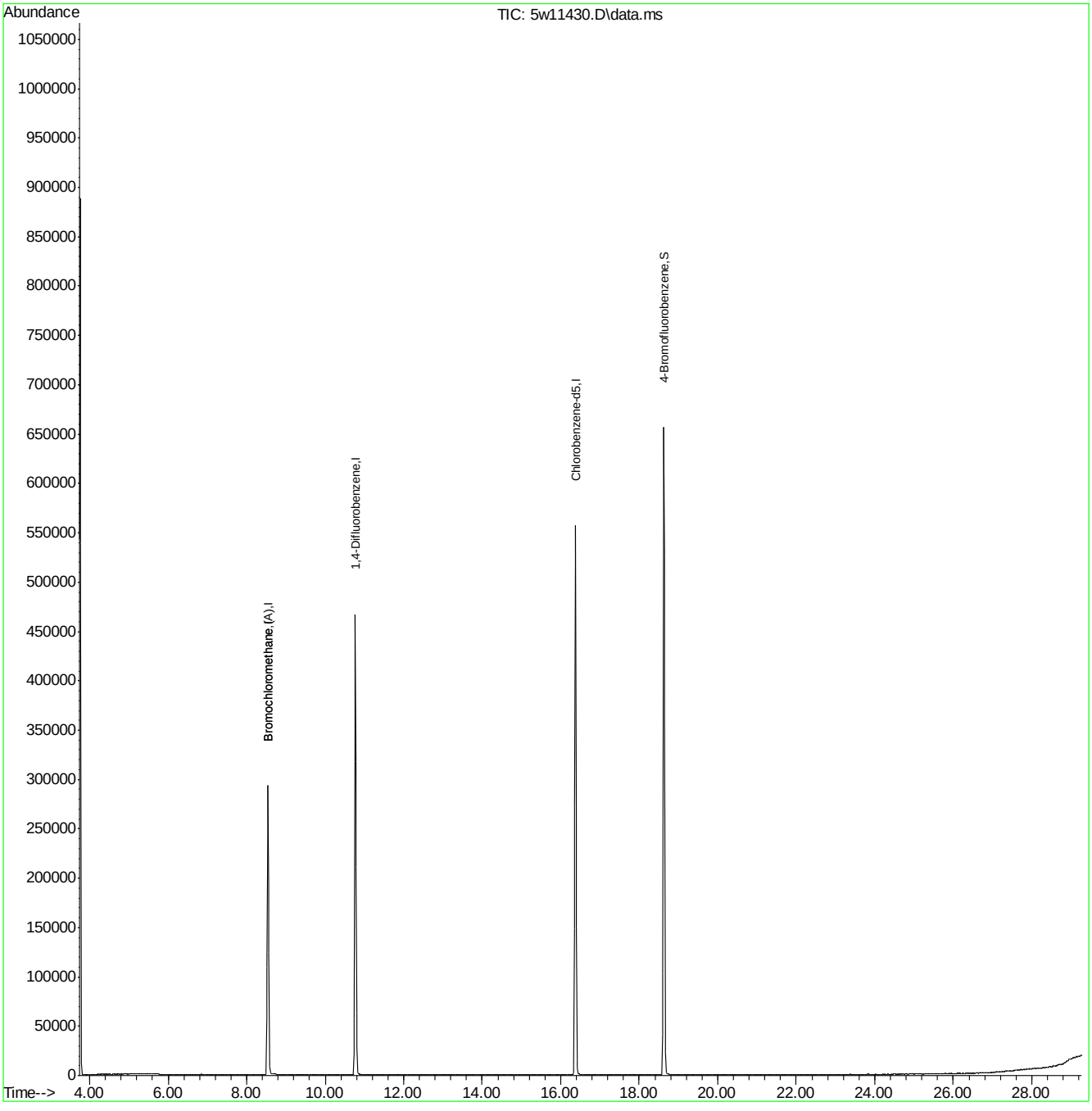
7.2.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11430.D
Acq On : 8 May 2015 10:32 am
Operator : mikel1
Sample : MB
Misc : MS84579,v5w449,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 08 13:31:44 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11460.D
Acq On : 9 May 2015 11:10 am
Operator : mikel1
Sample : MB
Misc : MS84855,v5w450,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 09 13:50:53 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

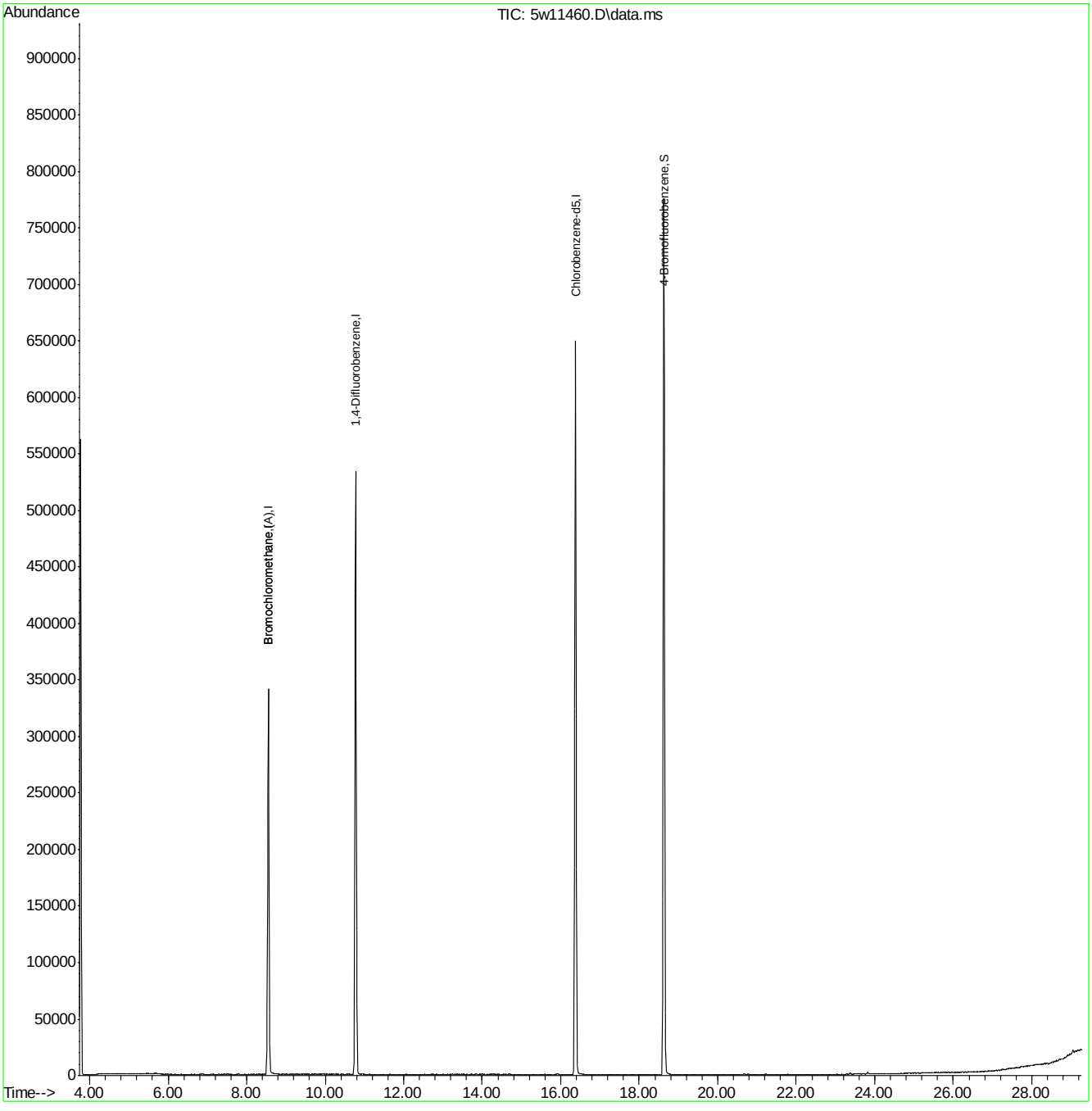
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Bromochloromethane	8.551	130	148125	10.00 ppb(v	#-0.02
53) 1,4-Difluorobenzene	10.778	114	542815	10.00 ppb(v	-0.02
75) Chlorobenzene-d5	16.376	82	284436	10.00 ppb(v	-0.03
106) Bromochloromethane (A)	8.551	130	148125	10.00 ppb(v	#-0.02
System Monitoring Compounds					
89) 4-Bromofluorobenzene	18.627	95	361187	9.74 ppb(v	-0.04
Spiked Amount 10.000	Range 65 - 128		Recovery = 97.40%		
Target Compounds					Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11460.D
Acq On : 9 May 2015 11:10 am
Operator : mikel1
Sample : MB
Misc : MS84855,v5w450,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 09 13:50:53 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES JB94203

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11483.D
Acq On : 11 May 2015 11:41 am
Operator : mikel1
Sample : MB
Misc : MS84920,v5w451,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 12 06:44:03 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.545	130	128602	10.00	ppb(v	-0.03
53) 1,4-Difluorobenzene	10.772	114	459323	10.00	ppb(v	-0.03
75) Chlorobenzene-d5	16.370	82	234734	10.00	ppb(v	-0.04
106) Bromochloromethane (A)	8.545	130	128602	10.00	ppb(v	-0.03
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.627	95	306592	10.02	ppb(v	-0.04
Spiked Amount 10.000	Range 65 - 128		Recovery = 100.20%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

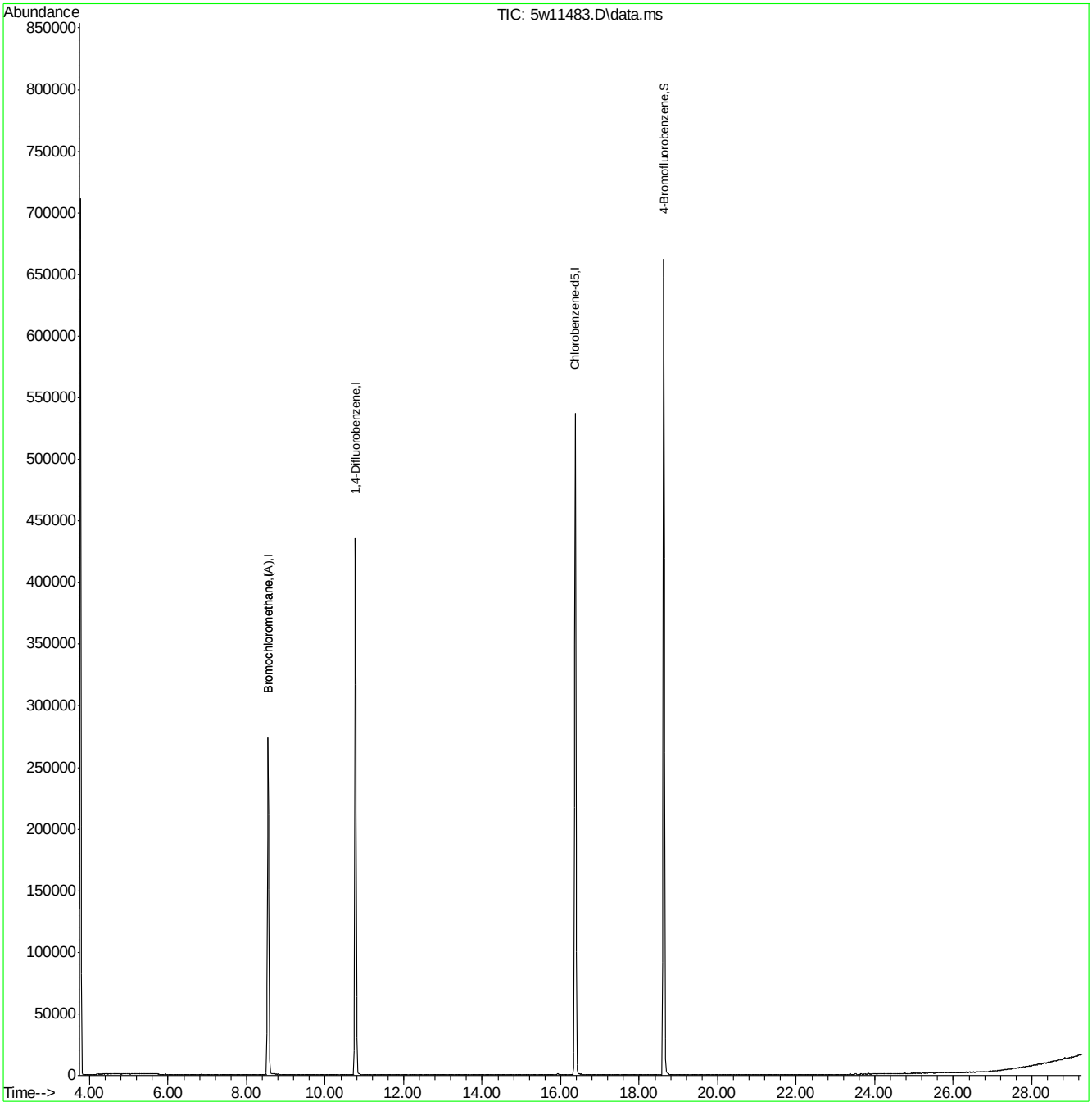
7.2.3

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11483.D
Acq On : 11 May 2015 11:41 am
Operator : mikel1
Sample : MB
Misc : MS84920,v5w451,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 12 06:44:03 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration



m5w419.M Tue May 12 07:02:32 2015 GCMS5W

Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11510.D
Acq On : 12 May 2015 12:15 pm
Operator : mikel1
Sample : MB
Misc : MS84578,v5w452,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 13 06:41:35 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.545	130	127707	10.00	ppb(v	#-0.03
53) 1,4-Difluorobenzene	10.772	114	453278	10.00	ppb(v	-0.03
75) Chlorobenzene-d5	16.370	82	230410	10.00	ppb(v	-0.04
106) Bromochloromethane (A)	8.545	130	127707	10.00	ppb(v	#-0.03
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.627	95	294546	9.80	ppb(v	-0.04
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

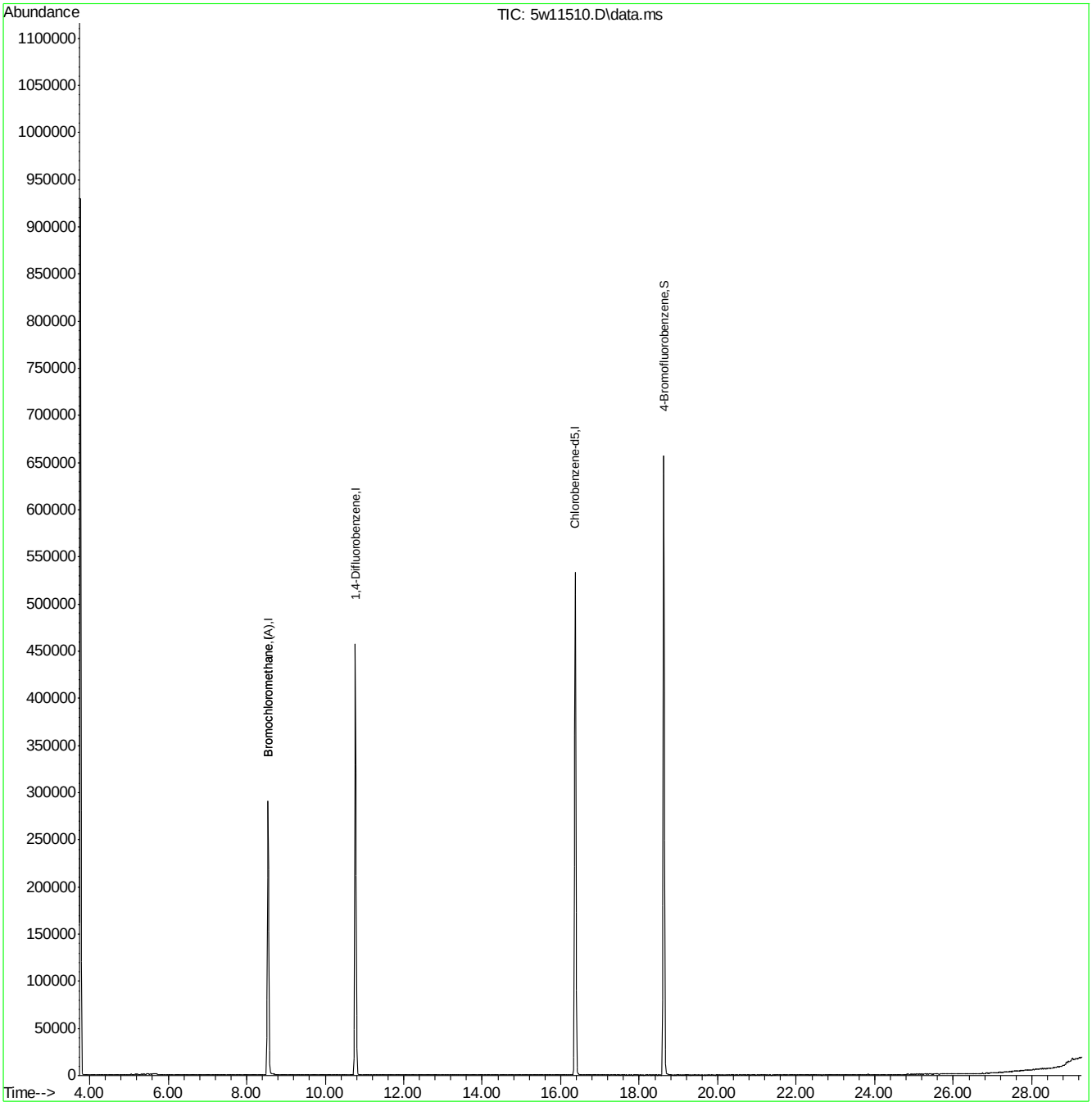
7.2.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11510.D
Acq On : 12 May 2015 12:15 pm
Operator : mikel1
Sample : MB
Misc : MS84578,v5w452,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 13 06:41:35 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration



m5w419.M Wed May 13 09:15:27 2015 GCMS5W

Page: 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W51049.D Vial: 4
Acq On : 23 Apr 2015 2:02 pm Operator: mikel1
Sample : MB Inst : MSW
Misc : MS83902,VW2039,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:09:45 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	9.33	128	97912	10.00	PPBV	-0.01
49) 1,4-DIFLUOROBENZENE	11.07	114	493194	10.00	PPBV	-0.01
67) CHLOROBENZENE-D5	15.36	82	195898	10.00	PPBV	0.00

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	16.97	95	221701	9.83	PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 98.30%

Target Compounds Qvalue

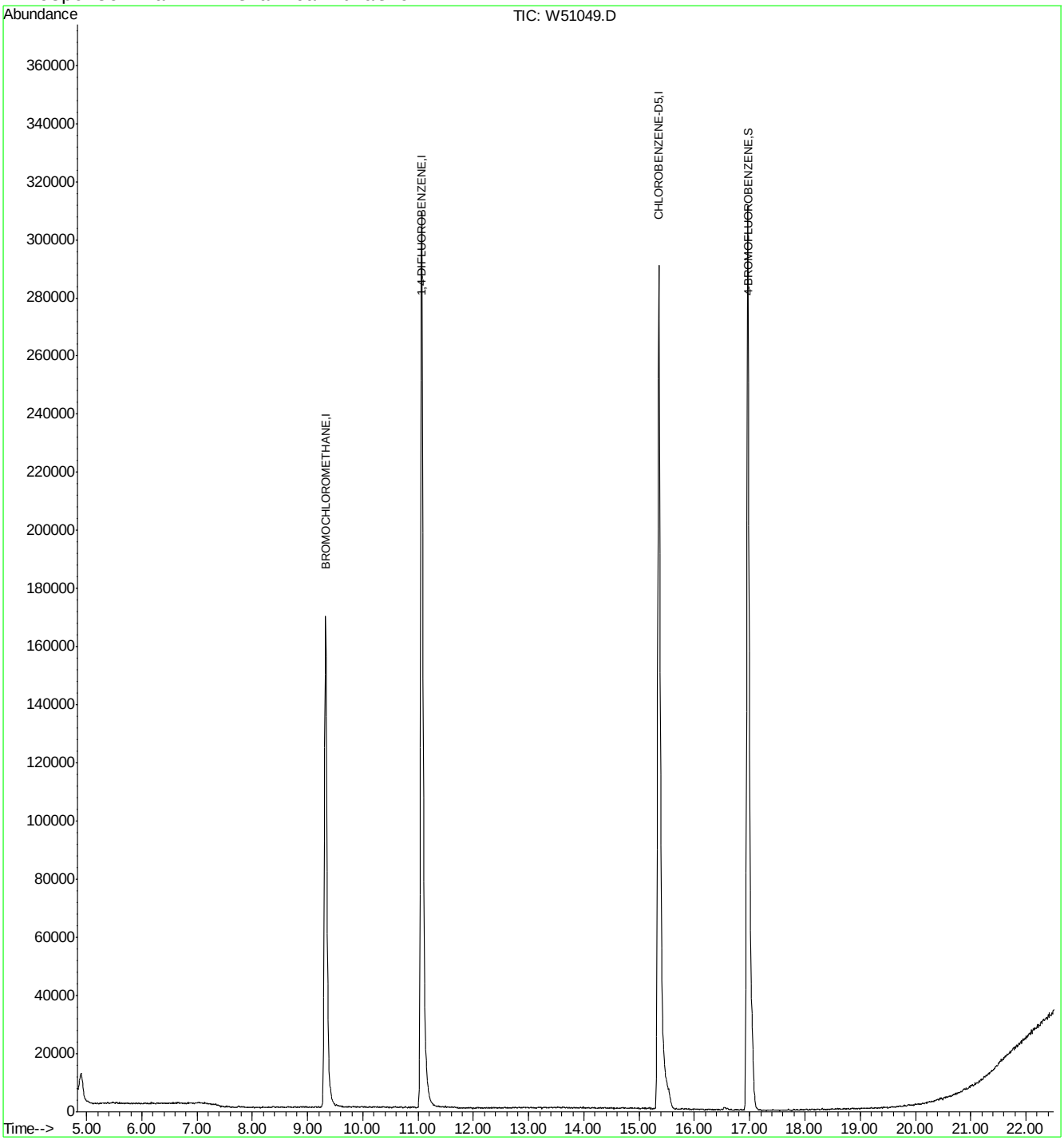
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W51049.D
Acq On : 23 Apr 2015 2:02 pm
Sample : MB
Misc : MS83902,VW2039,,,,,1
MS Integration Params: rteint.p
Quant Time: Apr 24 11:32 2015

Vial: 4
Operator: mikel1
Inst : MSW
Multiplr: 1.00
Quant Results File: MW2031.RES

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W47227.D Vial: 4
Acq On : 27 Apr 2015 2:02 pm Operator: YOUMINH
Sample : MB Inst : MS3W
Misc : MS84235,V3W1792,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 28 09:36:42 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.16	128	116172	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	8.74	114	474537	10.00	PPBV	0.00
71) CHLOROBENZENE-D5	12.88	82	189485	10.00	PPBV	0.00

System Monitoring Compounds

86) 4-BROMOFLUOROBENZENE	14.51	95	187016	8.82	PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 88.20%

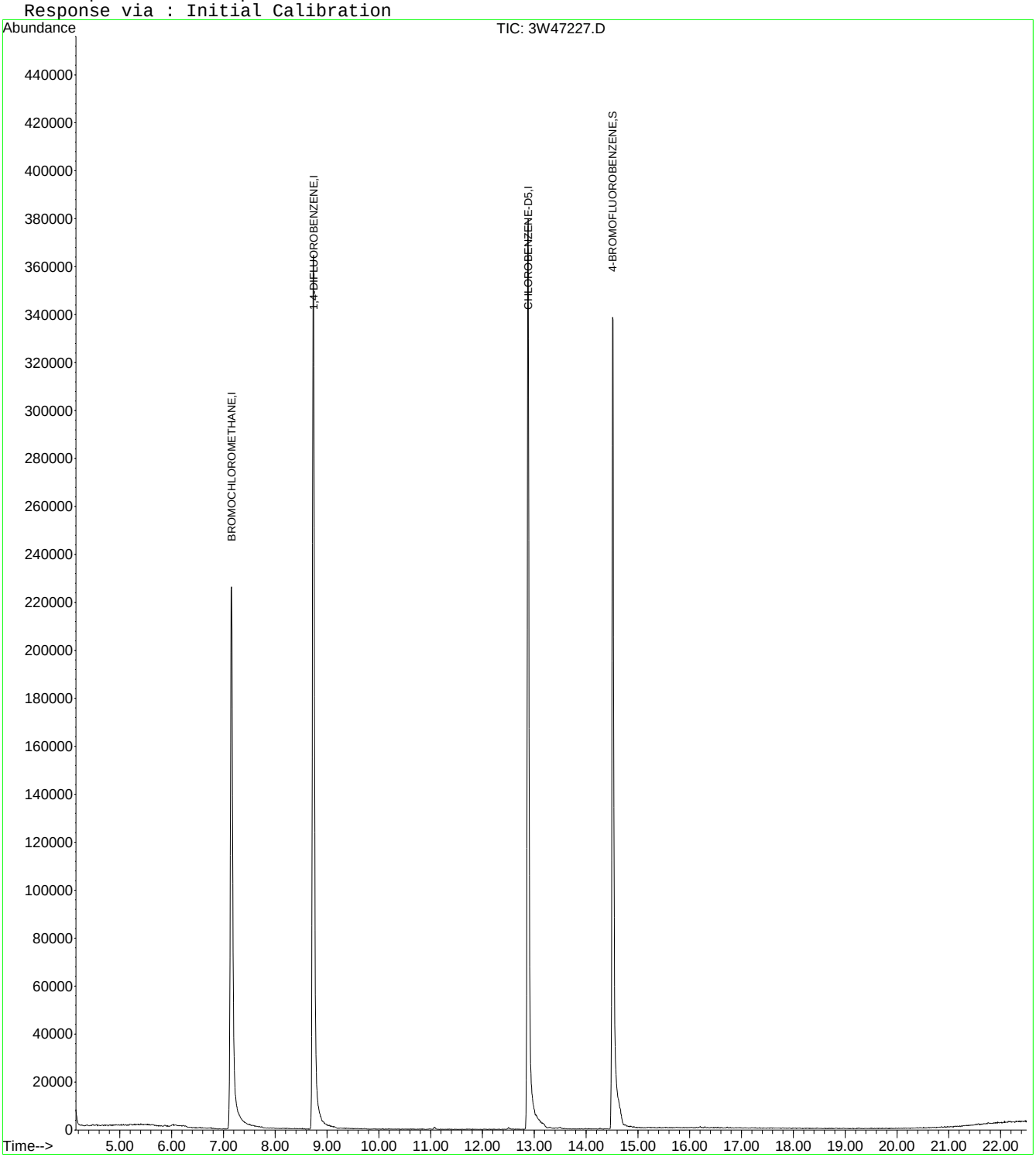
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W47227.D M3W1782.M Tue Apr 28 10:44:38 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W47227.D Vial: 4
Acq On : 27 Apr 2015 2:02 pm Operator: YOUMINH
Sample : MB Inst : MS3W
Misc : MS84235,V3W1792,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 28 9:53 2015 Quant Results File: M3W1782.RES

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11427.D
Acq On : 8 May 2015 8:22 am
Operator : mikel1
Sample : BS
Misc : MS84579,v5w449,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 08 10:23:10 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.545	130	137699	10.00	ppb(v	-0.03
53) 1,4-Difluorobenzene	10.778	114	501689	10.00	ppb(v	-0.02
75) Chlorobenzene-d5	16.376	82	269905	10.00	ppb(v	-0.03
106) Bromochloromethane (A)	8.545	130	137699	10.00	ppb(v	-0.03
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.627	95	346215	9.84	ppb(v	-0.04
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.40%			
Target Compounds						Qvalue
3) Freon 152A	3.902	65	83818	9.84	ppb(v	99
4) Chlorodifluoromethane	3.939	67	32440	9.99	ppb(v	99
5) Propene	3.969	41	95597	9.65	ppb(v	98
6) Dichlorodifluoromethane	4.030	85	352820	9.93	ppb(v	100
8) Chloromethane	4.177	50	130785	11.36	ppb(v	100
9) Dichlorotetrafluoroethane	4.263	85	386421	11.08	ppb(v	95
10) Vinyl Chloride	4.367	62	154905	11.23	ppb(v	98
11) 1,3-Butadiene	4.489	54	108599	11.16	ppb(v	99
12) n-Butane	4.538	58	23694	12.03	ppb(v	95
13) Bromomethane	4.734	94	145988	10.37	ppb(v	99
14) Chloroethane	4.887	64	73026	10.84	ppb(v	99
15) Dichlorofluoromethane	4.960	67	326873	10.70	ppb(v	99
16) Acetonitrile	5.187	41	119363	9.74	ppb(v	100
17) Freon 123	5.334	83	363462	10.72	ppb(v	99
18) Freon 123A	5.389	117	177428	10.12	ppb(v	89
19) Bromoethene	5.205	106	139830	10.74	ppb(v	98
20) Trichlorofluoromethane	5.590	101	349447	10.24	ppb(v	100
21) Acetone	5.431	58	66831	10.36	ppb(v	100
22) Pentane	5.921	57	31697	9.59	ppb(v	93
24) Iodomethane	6.123	142	363928	9.87	ppb(v	98
25) Isopropyl Alcohol	5.658	45	256480	10.09	ppb(v	96
26) 1,1-Dichloroethene	6.196	61	203989	9.73	ppb(v	99
27) Freon 113	6.569	101	281567	9.81	ppb(v	98
28) Methylene Chloride	6.312	84	122282	9.57	ppb(v	97
29) Carbon Disulfide	6.612	76	405714	9.96	ppb(v	99
30) Ethanol	4.991	45	61347	9.42	ppb(v	99
31) Acrylonitrile	5.860	53	103536	9.56	ppb(v	98
32) 3-Chloropropene	6.429	76	60780	10.09	ppb(v	91
33) trans-1,2-Dichloroethene	7.255	61	190881	9.48	ppb(v	96
34) tert-Butyl Alcohol	6.239	59	296958	9.28	ppb(v	99
35) Methyl tert-Butyl Ether	7.536	73	342576	9.27	ppb(v	98
36) Vinyl Acetate	7.622	43	347016	10.00	ppb(v	99
37) 1,1-Dichloroethane	7.469	63	240148	9.41	ppb(v	99
38) 2-Butanone	7.897	72	63897	8.93	ppb(v	96
39) Hexane	8.594	57	202275	8.78	ppb(v	96
40) cis-1,2-Dichloroethene	8.362	61	182612	9.49	ppb(v	96
41) Di-isopropyl Ether	8.594	45	487006	9.90	ppb(v	99
42) Ethyl Acetate	8.619	61	47628	9.50	ppb(v	93
43) Methyl Acrylate	8.607	55	264585	9.34	ppb(v	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11427.D
Acq On : 8 May 2015 8:22 am
Operator : mikel1
Sample : BS
Misc : MS84579,v5w449,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 08 10:23:10 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44)	Chloroform	8.692	83	294806	9.52	ppb(v	99
45)	2,4-Dimethylpentane	9.591	57	233909	9.41	ppb(v	99
46)	Tetrahydrofuran	9.163	72	62880	9.00	ppb(v	98
47)	1,1,1-Trichloroethane	9.812	97	266971	9.24	ppb(v	99
48)	1,2-Dichloroethane	9.524	62	171350	9.45	ppb(v	99
49)	Benzene	10.350	78	418557	9.17	ppb(v	99
50)	Carbon Tetrachloride	10.521	117	285511	9.41	ppb(v	99
51)	Cyclohexane	10.674	56	201760	9.28	ppb(v	97
52)	2,3-Dimethylpentane	10.962	71	86288	9.53	ppb(v	96
54)	2,2,4-Trimethylpentane	11.659	57	685137	10.24	ppb(v	99
55)	Heptane	11.996	71	133588	10.03	ppb(v	98
56)	Trichloroethene	11.623	95	194112	9.75	ppb(v	96
57)	1,2-Dichloropropane	11.329	63	164807	10.06	ppb(v	98
58)	Dibromomethane	11.298	174	182129	10.15	ppb(v	92
59)	Ethyl Acrylate	11.353	55	318619	9.54	ppb(v	98
60)	Methyl Methacrylate	11.886	69	146324	9.47	ppb(v	95
61)	1,4-Dioxane	11.641	88	102606	9.12	ppb(v#	73
62)	Bromodichloromethane	11.574	83	324978	9.91	ppb(v	99
63)	cis-1,3-Dichloropropene	12.705	75	245673	9.61	ppb(v	98
64)	4-Methyl-2-pentanone	12.760	58	133036	9.94	ppb(v	97
65)	trans-1,3-Dichloropropene	13.384	75	223661	9.75	ppb(v	99
66)	Toluene	13.966	91	503956	9.58	ppb(v	99
67)	1,1,2-Trichloroethane	13.605	97	181486	9.88	ppb(v	99
68)	2-Hexanone	14.339	58	186870	9.49	ppb(v	98
69)	Ethyl Methacrylate	14.363	69	268933	9.78	ppb(v	98
70)	Dibromochloromethane	14.522	129	338350	9.96	ppb(v	99
71)	Tetrachloroethene	15.495	166	254914	9.95	ppb(v	99
72)	1,2-Dibromoethane	14.853	107	291159	9.68	ppb(v	98
73)	Octane	15.324	43	327395	10.04	ppb(v	97
74)	1,1,1,2-Tetrachloroethane	16.419	131	221846	10.04	ppb(v	99
76)	Chlorobenzene	16.437	112	396015	9.79	ppb(v	97
77)	Ethylbenzene	16.988	91	637863	9.72	ppb(v	98
78)	m,p-Xylene	17.263	91	1012602	19.24	ppb(v	99
79)	Styrene	17.783	104	367416	10.07	ppb(v	99
80)	Nonane	18.315	43	345073	10.37	ppb(v	95
81)	o-Xylene	17.942	91	516573	10.09	ppb(v	98
82)	Bromoform	17.336	173	337786	10.59	ppb(v	99
83)	1,1,2,2-Tetrachloroethane	17.930	83	439639	10.33	ppb(v	98
84)	1,2,3-Trichloropropane	18.126	75	299169	10.17	ppb(v	97
85)	Isopropylbenzene	18.841	105	703961	9.99	ppb(v	99
86)	Bromobenzene	18.952	156	234873	10.20	ppb(v	94
87)	2-Chlorotoluene	19.527	126	172153	9.87	ppb(v	96
88)	n-Propylbenzene	19.594	120	186677	10.28	ppb(v	96
90)	4-Ethyltoluene	19.802	105	689381	10.13	ppb(v	99
91)	1,3,5-Trimethylbenzene	19.918	105	567968	9.83	ppb(v	99
92)	alpha-Methylstyrene	20.138	118	283858	10.37	ppb(v	98
93)	tert-Butylbenzene	20.463	134	118789	10.15	ppb(v	93
94)	1,2,4-Trimethylbenzene	20.475	105	599730	10.38	ppb(v	94
95)	1,3-Dichlorobenzene	20.665	146	397187	10.12	ppb(v	98
96)	Benzyl Chloride	20.652	91	519347	9.95	ppb(v	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11427.D
Acq On : 8 May 2015 8:22 am
Operator : mikel1
Sample : BS
Misc : MS84579,v5w449,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 08 10:23:10 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

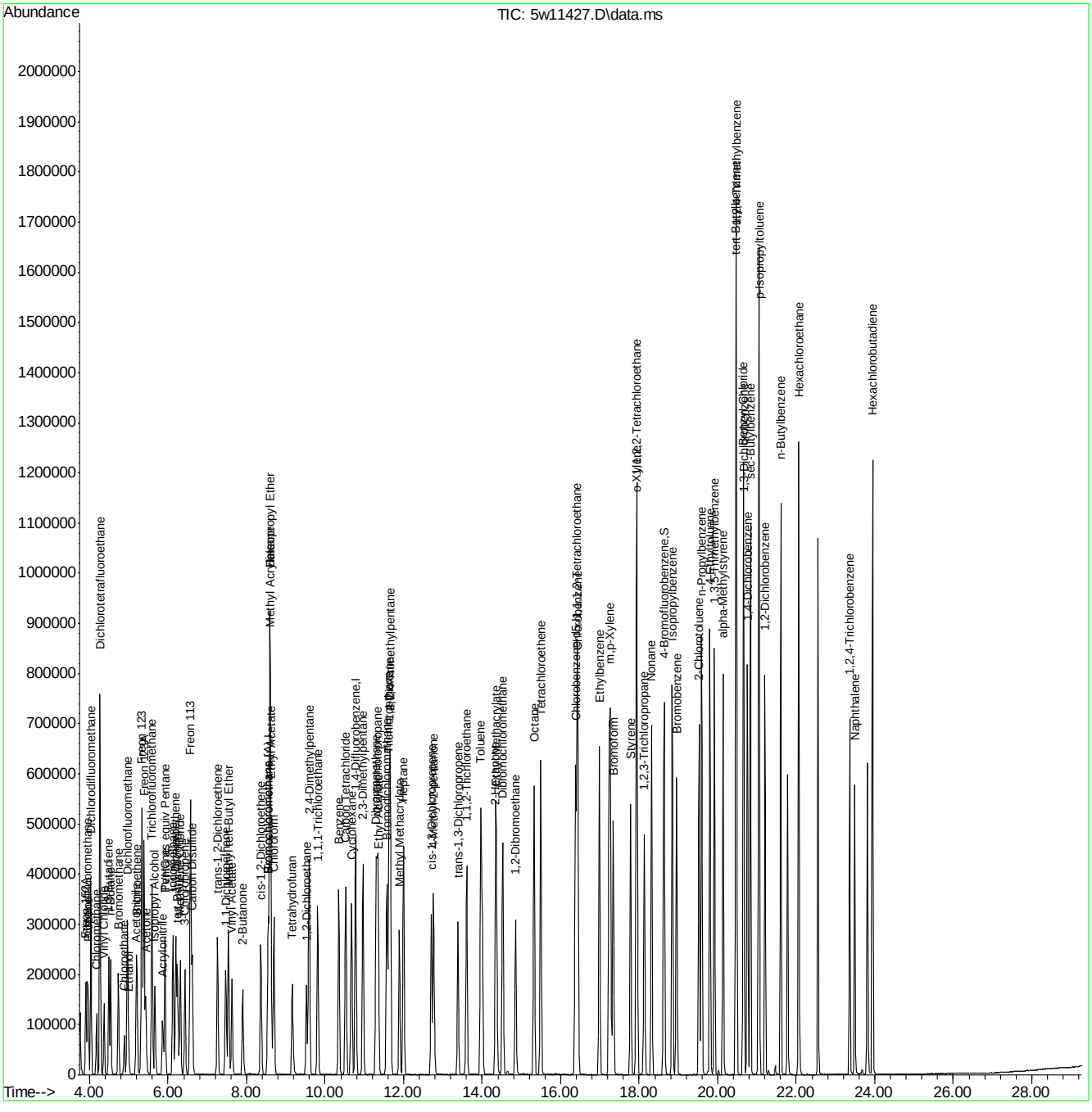
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,4-Dichlorobenzene	20.756	146	385984	10.00	ppb(v	98
98)	sec-Butylbenzene	20.836	134	149407	10.00	ppb(v	92
99)	p-Isopropyltoluene	21.056	134	172759	10.58	ppb(v	96
100)	1,2-Dichlorobenzene	21.203	146	370608	9.95	ppb(v	97
101)	n-Butylbenzene	21.607	134	152989	10.52	ppb(v	90
102)	Hexachloroethane	22.065	201	233935	10.88	ppb(v	94
103)	1,2,4-Trichlorobenzene	23.362	180	229282	9.82	ppb(v	99
104)	Naphthalene	23.491	128	465880	9.90	ppb(v	100
105)	Hexachlorobutadiene	23.944	225	250806	9.12	ppb(v	99
107)	TVHC as equiv Pentane	5.921	TIC	560818	9.03	ppb(v	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11427.D
Acq On : 8 May 2015 8:22 am
Operator : mikel1
Sample : BS
Misc : MS84579,v5w449,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 08 10:23:10 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES JB94203

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11428.D
Acq On : 8 May 2015 9:04 am
Operator : mikel1
Sample : BSD
Misc : MS84579,v5w449,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 08 10:23:18 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.551	130	135309	10.00	ppb(v	-0.02
53) 1,4-Difluorobenzene	10.778	114	493243	10.00	ppb(v	-0.02
75) Chlorobenzene-d5	16.376	82	262599	10.00	ppb(v	-0.03
106) Bromochloromethane (A)	8.551	130	135309	10.00	ppb(v	-0.02
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.633	95	339086	9.90	ppb(v	-0.03
Spiked Amount 10.000	Range 65 - 128		Recovery = 99.00%			
Target Compounds						Qvalue
3) Freon 152A	3.902	65	81257	9.70	ppb(v	98
4) Chlorodifluoromethane	3.945	67	31812	9.97	ppb(v	100
5) Propene	3.969	41	90612	9.31	ppb(v	98
6) Dichlorodifluoromethane	4.036	85	346825	9.94	ppb(v	100
8) Chloromethane	4.177	50	124523	11.01	ppb(v	99
9) Dichlorotetrafluoroethane	4.263	85	385431	11.25	ppb(v	94
10) Vinyl Chloride	4.373	62	153170	11.30	ppb(v	100
11) 1,3-Butadiene	4.489	54	105369	11.01	ppb(v	100
12) n-Butane	4.538	58	23135	11.95	ppb(v	88
13) Bromomethane	4.734	94	148585	10.74	ppb(v	100
14) Chloroethane	4.887	64	72141	10.90	ppb(v	99
15) Dichlorofluoromethane	4.966	67	326452	10.87	ppb(v	100
16) Acetonitrile	5.193	41	117632	9.77	ppb(v	100
17) Freon 123	5.340	83	366202	11.00	ppb(v	100
18) Freon 123A	5.388	117	181397	10.53	ppb(v	90
19) Bromoethene	5.205	106	143936	11.25	ppb(v	98
20) Trichlorofluoromethane	5.590	101	352717	10.52	ppb(v	100
21) Acetone	5.431	58	65910	10.40	ppb(v	96
22) Pentane	5.921	57	32084	9.88	ppb(v	95
24) Iodomethane	6.129	142	371030	10.24	ppb(v	98
25) Isopropyl Alcohol	5.658	45	255397	10.23	ppb(v	96
26) 1,1-Dichloroethene	6.196	61	204230	9.91	ppb(v	99
27) Freon 113	6.569	101	283396	10.05	ppb(v	98
28) Methylene Chloride	6.312	84	122876	9.78	ppb(v	97
29) Carbon Disulfide	6.618	76	402305	10.05	ppb(v	100
30) Ethanol	4.991	45	60496	9.46	ppb(v	99
31) Acrylonitrile	5.866	53	102670	9.65	ppb(v	97
32) 3-Chloropropene	6.429	76	60234	10.17	ppb(v	92
33) trans-1,2-Dichloroethene	7.261	61	190838	9.64	ppb(v	97
34) tert-Butyl Alcohol	6.239	59	296024	9.41	ppb(v	99
35) Methyl tert-Butyl Ether	7.536	73	343208	9.45	ppb(v	97
36) Vinyl Acetate	7.628	43	347958	10.20	ppb(v	99
37) 1,1-Dichloroethane	7.469	63	241611	9.64	ppb(v	99
38) 2-Butanone	7.897	72	64874	9.23	ppb(v	97
39) Hexane	8.594	57	202974	8.96	ppb(v	93
40) cis-1,2-Dichloroethene	8.362	61	181063	9.58	ppb(v	96
41) Di-isopropyl Ether	8.594	45	483650	10.01	ppb(v	98
42) Ethyl Acetate	8.625	61	47335	9.60	ppb(v	89
43) Methyl Acrylate	8.606	55	264065	9.49	ppb(v	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11428.D
Acq On : 8 May 2015 9:04 am
Operator : mikel1
Sample : BSD
Misc : MS84579,v5w449,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 08 10:23:18 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Chloroform	8.692	83	293884	9.66	ppb(v	100
45) 2,4-Dimethylpentane	9.591	57	233181	9.55	ppb(v	98
46) Tetrahydrofuran	9.163	72	62981	9.17	ppb(v	96
47) 1,1,1-Trichloroethane	9.812	97	267288	9.41	ppb(v	100
48) 1,2-Dichloroethane	9.524	62	173389	9.73	ppb(v	98
49) Benzene	10.350	78	417789	9.32	ppb(v	100
50) Carbon Tetrachloride	10.527	117	289234	9.70	ppb(v	100
51) Cyclohexane	10.674	56	200649	9.39	ppb(v	98
52) 2,3-Dimethylpentane	10.962	71	86567	9.73	ppb(v	97
54) 2,2,4-Trimethylpentane	11.659	57	683882	10.40	ppb(v	99
55) Heptane	12.002	71	133450	10.19	ppb(v	98
56) Trichloroethene	11.622	95	195249	9.97	ppb(v	98
57) 1,2-Dichloropropane	11.329	63	166000	10.30	ppb(v	98
58) Dibromomethane	11.298	174	183821	10.42	ppb(v	93
59) Ethyl Acrylate	11.353	55	323377	9.85	ppb(v	99
60) Methyl Methacrylate	11.892	69	147535	9.71	ppb(v	97
61) 1,4-Dioxane	11.641	88	104607	9.46	ppb(v#	81
62) Bromodichloromethane	11.573	83	327424	10.16	ppb(v	100
63) cis-1,3-Dichloropropene	12.705	75	250261	9.95	ppb(v	98
64) 4-Methyl-2-pentanone	12.760	58	133238	10.12	ppb(v	98
65) trans-1,3-Dichloropropene	13.384	75	226555	10.05	ppb(v	99
66) Toluene	13.966	91	509547	9.85	ppb(v	100
67) 1,1,2-Trichloroethane	13.605	97	184312	10.20	ppb(v	99
68) 2-Hexanone	14.339	58	188330	9.73	ppb(v	99
69) Ethyl Methacrylate	14.363	69	270097	9.99	ppb(v	98
70) Dibromochloromethane	14.528	129	344688	10.32	ppb(v	99
71) Tetrachloroethene	15.495	166	257369	10.22	ppb(v	99
72) 1,2-Dibromoethane	14.853	107	296698	10.03	ppb(v	99
73) Octane	15.324	43	327208	10.21	ppb(v	98
74) 1,1,1,2-Tetrachloroethane	16.419	131	225219	10.37	ppb(v	99
76) Chlorobenzene	16.437	112	400400	10.18	ppb(v	97
77) Ethylbenzene	16.988	91	651035	10.20	ppb(v	99
78) m,p-Xylene	17.238	91	1021620	19.95	ppb(v	98
79) Styrene	17.783	104	372824	10.50	ppb(v	98
80) Nonane	18.315	43	342009	10.56	ppb(v	95
81) o-Xylene	17.942	91	522153	10.48	ppb(v	99
82) Bromoform	17.336	173	346284	11.16	ppb(v	99
83) 1,1,2,2-Tetrachloroethane	17.930	83	442485	10.69	ppb(v	98
84) 1,2,3-Trichloropropane	18.132	75	302089	10.55	ppb(v	98
85) Isopropylbenzene	18.841	105	707343	10.32	ppb(v	98
86) Bromobenzene	18.951	156	237423	10.59	ppb(v	94
87) 2-Chlorotoluene	19.527	126	175167	10.33	ppb(v	96
88) n-Propylbenzene	19.594	120	188531	10.67	ppb(v	99
90) 4-Ethyltoluene	19.802	105	696476	10.51	ppb(v	98
91) 1,3,5-Trimethylbenzene	19.918	105	586825	10.44	ppb(v	99
92) alpha-Methylstyrene	20.138	118	289750	10.88	ppb(v	98
93) tert-Butylbenzene	20.469	134	121457	10.67	ppb(v	89
94) 1,2,4-Trimethylbenzene	20.475	105	615549	10.95	ppb(v	92
95) 1,3-Dichlorobenzene	20.664	146	405386	10.61	ppb(v	98
96) Benzyl Chloride	20.652	91	543190	10.69	ppb(v	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11428.D
Acq On : 8 May 2015 9:04 am
Operator : mikel1
Sample : BSD
Misc : MS84579,v5w449,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 08 10:23:18 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

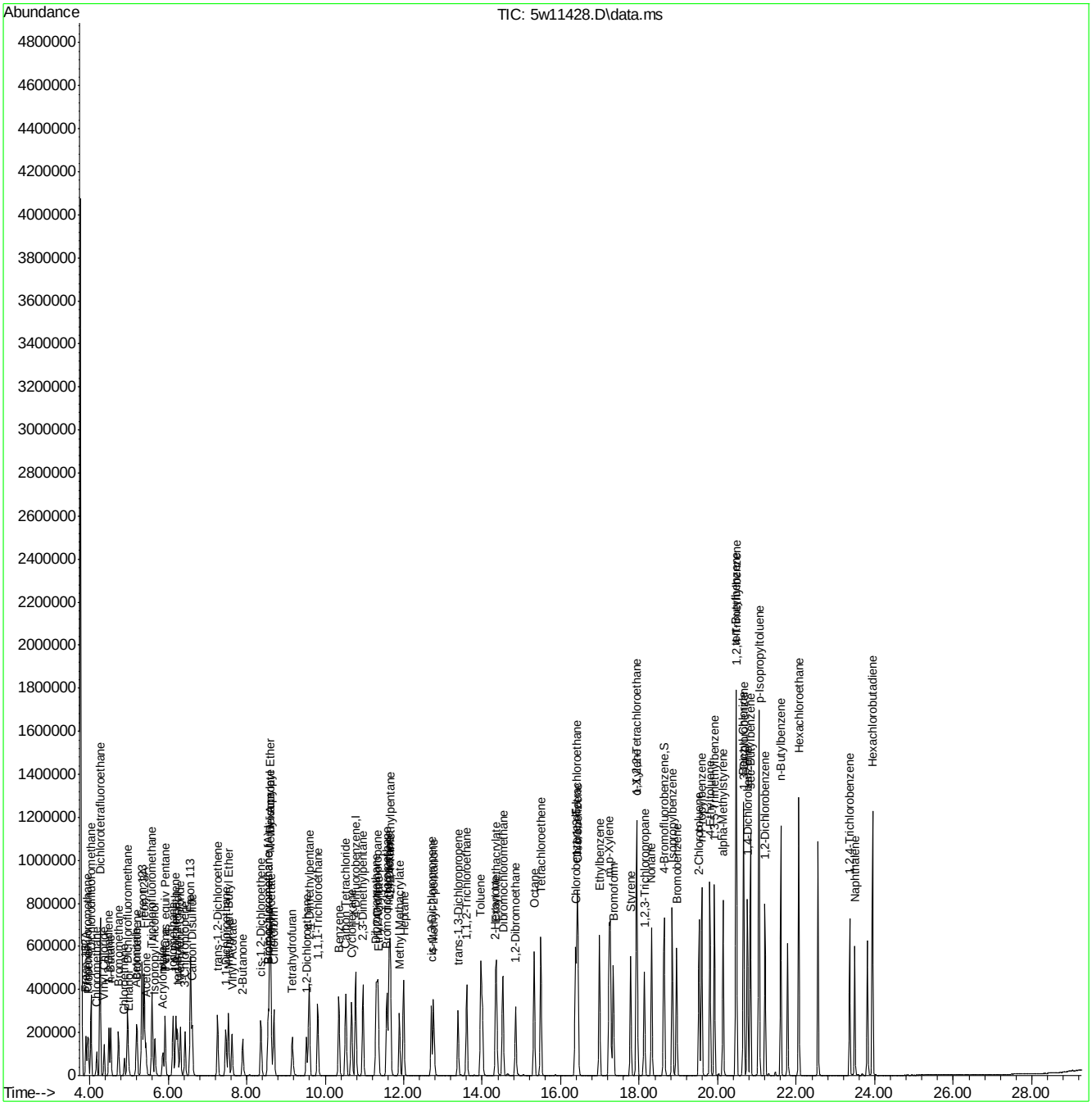
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) 1,4-Dichlorobenzene	20.756	146	393178	10.47	ppb(v	98
98) sec-Butylbenzene	20.836	134	152903	10.52	ppb(v	95
99) p-Isopropyltoluene	21.056	134	175904	11.08	ppb(v	96
100) 1,2-Dichlorobenzene	21.203	146	378733	10.45	ppb(v	97
101) n-Butylbenzene	21.607	134	155112	10.97	ppb(v	88
102) Hexachloroethane	22.065	201	243012	11.62	ppb(v	95
103) 1,2,4-Trichlorobenzene	23.362	180	235865	10.38	ppb(v	99
104) Naphthalene	23.491	128	483136	10.55	ppb(v	100
105) Hexachlorobutadiene	23.944	225	251017	9.38	ppb(v	99
107) TVHC as equiv Pentane	5.921	TIC	567593	9.30	ppb(v	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11428.D
Acq On : 8 May 2015 9:04 am
Operator : mikel1
Sample : BSD
Misc : MS84579,v5w449,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 08 10:23:18 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES JB94203

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11457.D
Acq On : 9 May 2015 9:00 am
Operator : mikel1
Sample : BS
Misc : MS84855,v5w450,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 09 13:50:14 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.558	130	152402	10.00	ppb(v	#-0.02
53) 1,4-Difluorobenzene	10.778	114	561282	10.00	ppb(v	-0.02
75) Chlorobenzene-d5	16.376	82	309706	10.00	ppb(v	-0.03
106) Bromochloromethane (A)	8.558	130	152402	10.00	ppb(v	#-0.02
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.627	95	389653	9.65	ppb(v	-0.04
Spiked Amount 10.000	Range 65 - 128		Recovery = 96.50%			
Target Compounds						Qvalue
3) Freon 152A	3.908	65	100803	10.69	ppb(v	97
4) Chlorodifluoromethane	3.951	67	38528	10.73	ppb(v	97
5) Propene	3.975	41	117685	10.73	ppb(v	99
6) Dichlorodifluoromethane	4.043	85	416708	10.60	ppb(v	99
8) Chloromethane	4.190	50	141770	11.13	ppb(v	99
9) Dichlorotetrafluoroethane	4.275	85	429217	11.12	ppb(v	100
10) Vinyl Chloride	4.379	62	170831	11.19	ppb(v	99
11) 1,3-Butadiene	4.502	54	120489	11.18	ppb(v	97
12) n-Butane	4.544	58	26205	12.02	ppb(v	97
13) Bromomethane	4.746	94	169833	10.90	ppb(v	99
14) Chloroethane	4.893	64	82111	11.01	ppb(v	100
15) Dichlorofluoromethane	4.973	67	372144	11.00	ppb(v	100
16) Acetonitrile	5.199	41	137416	10.14	ppb(v	99
17) Freon 123	5.346	83	418730	11.16	ppb(v	99
18) Freon 123A	5.395	117	208157	10.72	ppb(v	89
19) Bromoethene	5.217	106	164308	11.41	ppb(v	98
20) Trichlorofluoromethane	5.597	101	399035	10.56	ppb(v	99
21) Acetone	5.444	58	77016	10.78	ppb(v	97
22) Pentane	5.933	57	39776	10.88	ppb(v	93
24) Iodomethane	6.135	142	422498	10.35	ppb(v	97
25) Isopropyl Alcohol	5.670	45	301326	10.72	ppb(v	95
26) 1,1-Dichloroethene	6.202	61	249774	10.77	ppb(v	97
27) Freon 113	6.575	101	330546	10.40	ppb(v	96
28) Methylene Chloride	6.319	84	144059	10.18	ppb(v	92
29) Carbon Disulfide	6.624	76	479414	10.63	ppb(v	99
30) Ethanol	5.003	45	69255	9.61	ppb(v	99
31) Acrylonitrile	5.872	53	128526	10.72	ppb(v	98
32) 3-Chloropropene	6.435	76	73632	11.04	ppb(v	87
33) trans-1,2-Dichloroethene	7.267	61	235036	10.54	ppb(v	94
34) tert-Butyl Alcohol	6.245	59	372314	10.51	ppb(v	100
35) Methyl tert-Butyl Ether	7.542	73	420608	10.28	ppb(v	96
36) Vinyl Acetate	7.634	43	441802	11.50	ppb(v	98
37) 1,1-Dichloroethane	7.475	63	294153	10.42	ppb(v	100
38) 2-Butanone	7.903	72	78756	9.95	ppb(v	91
39) Hexane	8.600	57	252534	9.90	ppb(v	99
40) cis-1,2-Dichloroethene	8.368	61	225397	10.59	ppb(v	95
41) Di-isopropyl Ether	8.600	45	613720	11.27	ppb(v	98
42) Ethyl Acetate	8.625	61	59174	10.66	ppb(v	89
43) Methyl Acrylate	8.613	55	327865	10.46	ppb(v	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11457.D
Acq On : 9 May 2015 9:00 am
Operator : mikel1
Sample : BS
Misc : MS84855,v5w450,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 09 13:50:14 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44)	Chloroform	8.698	83	348974	10.18	ppb(v	99
45)	2,4-Dimethylpentane	9.598	57	293267	10.66	ppb(v	97
46)	Tetrahydrofuran	9.169	72	76971	9.95	ppb(v	94
47)	1,1,1-Trichloroethane	9.818	97	311765	9.74	ppb(v	99
48)	1,2-Dichloroethane	9.530	62	207317	10.33	ppb(v	99
49)	Benzene	10.356	78	503786	9.97	ppb(v	99
50)	Carbon Tetrachloride	10.527	117	328587	9.78	ppb(v	99
51)	Cyclohexane	10.674	56	251317	10.44	ppb(v	95
52)	2,3-Dimethylpentane	10.968	71	105170	10.49	ppb(v	93
54)	2,2,4-Trimethylpentane	11.665	57	847141	11.32	ppb(v	99
55)	Heptane	12.002	71	163081	10.94	ppb(v	96
56)	Trichloroethene	11.629	95	230053	10.32	ppb(v	96
57)	1,2-Dichloropropane	11.335	63	202961	11.07	ppb(v	97
58)	Dibromomethane	11.304	174	210094	10.47	ppb(v	92
59)	Ethyl Acrylate	11.353	55	405195	10.84	ppb(v	98
60)	Methyl Methacrylate	11.892	69	182290	10.54	ppb(v	93
61)	1,4-Dioxane	11.641	88	124148	9.87	ppb(v#	81
62)	Bromodichloromethane	11.574	83	387703	10.57	ppb(v	99
63)	cis-1,3-Dichloropropene	12.705	75	303704	10.62	ppb(v	98
64)	4-Methyl-2-pentanone	12.760	58	167767	11.20	ppb(v	96
65)	trans-1,3-Dichloropropene	13.384	75	271991	10.60	ppb(v	98
66)	Toluene	13.966	91	605432	10.29	ppb(v	99
67)	1,1,2-Trichloroethane	13.605	97	214915	10.46	ppb(v	99
68)	2-Hexanone	14.339	58	233590	10.60	ppb(v	98
69)	Ethyl Methacrylate	14.363	69	325365	10.58	ppb(v	97
70)	Dibromochloromethane	14.522	129	392987	10.34	ppb(v	99
71)	Tetrachloroethene	15.495	166	295686	10.32	ppb(v	99
72)	1,2-Dibromoethane	14.853	107	347468	10.32	ppb(v	99
73)	Octane	15.324	43	414561	11.36	ppb(v	94
74)	1,1,1,2-Tetrachloroethane	16.419	131	257812	10.43	ppb(v	99
76)	Chlorobenzene	16.437	112	465907	10.04	ppb(v	97
77)	Ethylbenzene	16.988	91	778442	10.34	ppb(v	98
78)	m,p-Xylene	17.257	91	1207700	20.00	ppb(v	98
79)	Styrene	17.783	104	442480	10.57	ppb(v	98
80)	Nonane	18.315	43	429290	11.24	ppb(v	93
81)	o-Xylene	17.936	91	615251	10.47	ppb(v	98
82)	Bromoform	17.337	173	392432	10.72	ppb(v	100
83)	1,1,2,2-Tetrachloroethane	17.930	83	521472	10.68	ppb(v	98
84)	1,2,3-Trichloropropane	18.126	75	358177	10.61	ppb(v	97
85)	Isopropylbenzene	18.841	105	846521	10.47	ppb(v	98
86)	Bromobenzene	18.952	156	272873	10.32	ppb(v	93
87)	2-Chlorotoluene	19.527	126	207267	10.36	ppb(v	94
88)	n-Propylbenzene	19.588	120	221694	10.64	ppb(v	91
90)	4-Ethyltoluene	19.802	105	818954	10.48	ppb(v	99
91)	1,3,5-Trimethylbenzene	19.918	105	683592	10.31	ppb(v	99
92)	alpha-Methylstyrene	20.132	118	343905	10.95	ppb(v	98
93)	tert-Butylbenzene	20.463	134	140860	10.49	ppb(v	92
94)	1,2,4-Trimethylbenzene	20.475	105	710607	10.72	ppb(v	97
95)	1,3-Dichlorobenzene	20.665	146	464119	10.30	ppb(v	98
96)	Benzyl Chloride	20.646	91	642318	10.72	ppb(v	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11457.D
Acq On : 9 May 2015 9:00 am
Operator : mikel1
Sample : BS
Misc : MS84855,v5w450,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 09 13:50:14 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,4-Dichlorobenzene	20.756	146	451472	10.19	ppb(v	97
98)	sec-Butylbenzene	20.836	134	178104	10.39	ppb(v	94
99)	p-Isopropyltoluene	21.056	134	202831	10.83	ppb(v	97
100)	1,2-Dichlorobenzene	21.203	146	430423	10.07	ppb(v	97
101)	n-Butylbenzene	21.607	134	180851	10.84	ppb(v	90
102)	Hexachloroethane	22.065	201	274088	11.11	ppb(v	95
103)	1,2,4-Trichlorobenzene	23.362	180	271453	10.13	ppb(v	99
104)	Naphthalene	23.491	128	554452	10.26	ppb(v	99
105)	Hexachlorobutadiene	23.944	225	288283	9.14	ppb(v	99
107)	TVHC as equiv Pentane	5.933	TIC	715279	10.41	ppb(v	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

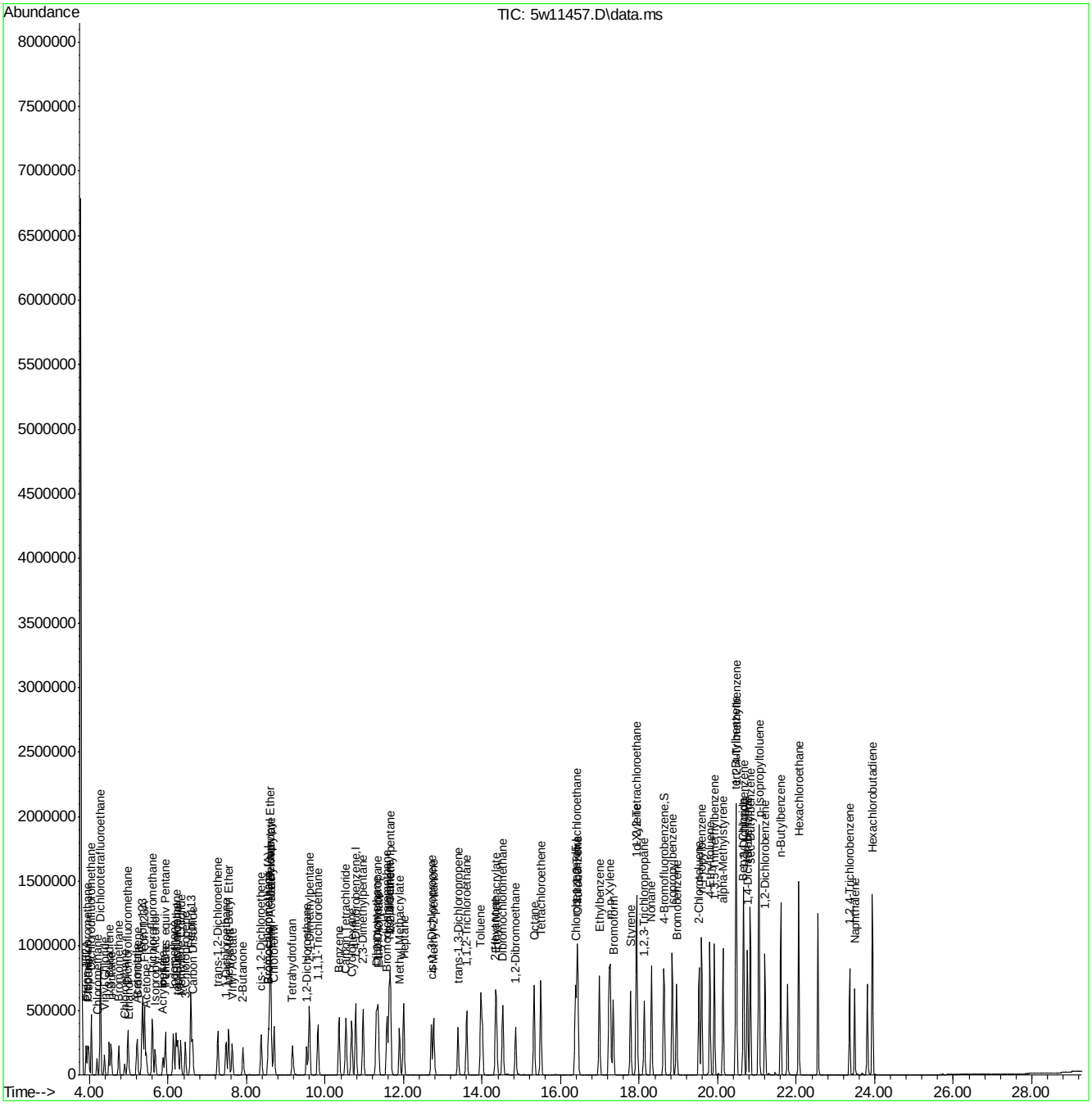
7.3.3

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11457.D
Acq On : 9 May 2015 9:00 am
Operator : mikel1
Sample : BS
Misc : MS84855,v5w450,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 09 13:50:14 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES JB94203

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11458.D
Acq On : 9 May 2015 9:41 am
Operator : mikel1
Sample : BSD
Misc : MS84855,v5w450,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 09 13:50:24 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.557	130	148834	10.00	ppb(v	#-0.02
53) 1,4-Difluorobenzene	10.778	114	548165	10.00	ppb(v	-0.02
75) Chlorobenzene-d5	16.376	82	299435	10.00	ppb(v	-0.03
106) Bromochloromethane (A)	8.557	130	148834	10.00	ppb(v	#-0.02
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.627	95	381919	9.78	ppb(v	-0.04
Spiked Amount 10.000	Range 65 - 128		Recovery = 97.80%			
Target Compounds						Qvalue
3) Freon 152A	3.914	65	97043	10.54	ppb(v	99
4) Chlorodifluoromethane	3.957	67	37072	10.57	ppb(v	100
5) Propene	3.981	41	112948	10.55	ppb(v	99
6) Dichlorodifluoromethane	4.049	85	405240	10.55	ppb(v	99
8) Chloromethane	4.189	50	144035	11.58	ppb(v	100
9) Dichlorotetrafluoroethane	4.275	85	435760	11.56	ppb(v	96
10) Vinyl Chloride	4.385	62	173166	11.62	ppb(v	99
11) 1,3-Butadiene	4.501	54	121161	11.51	ppb(v	98
12) n-Butane	4.550	58	25974	12.20	ppb(v	93
13) Bromomethane	4.746	94	168178	11.06	ppb(v	99
14) Chloroethane	4.899	64	81805	11.24	ppb(v	99
15) Dichlorofluoromethane	4.979	67	367807	11.14	ppb(v	99
16) Acetonitrile	5.199	41	133521	10.08	ppb(v	99
17) Freon 123	5.346	83	417428	11.40	ppb(v	100
18) Freon 123A	5.401	117	203062	10.71	ppb(v	92
19) Bromoethene	5.217	106	163212	11.60	ppb(v	98
20) Trichlorofluoromethane	5.603	101	392856	10.65	ppb(v	100
21) Acetone	5.444	58	74634	10.70	ppb(v	97
22) Pentane	5.933	57	38508	10.78	ppb(v	94
24) Iodomethane	6.135	142	424367	10.65	ppb(v	97
25) Isopropyl Alcohol	5.670	45	294090	10.71	ppb(v	95
26) 1,1-Dichloroethene	6.208	61	244100	10.77	ppb(v	97
27) Freon 113	6.575	101	326329	10.52	ppb(v	97
28) Methylene Chloride	6.318	84	143239	10.37	ppb(v	93
29) Carbon Disulfide	6.624	76	473623	10.75	ppb(v	99
30) Ethanol	5.003	45	68408	9.72	ppb(v	98
31) Acrylonitrile	5.872	53	124952	10.68	ppb(v	99
32) 3-Chloropropene	6.441	76	72240	11.09	ppb(v	93
33) trans-1,2-Dichloroethene	7.267	61	230935	10.61	ppb(v	96
34) tert-Butyl Alcohol	6.245	59	365498	10.56	ppb(v	98
35) Methyl tert-Butyl Ether	7.542	73	413602	10.35	ppb(v	98
36) Vinyl Acetate	7.634	43	426413	11.36	ppb(v	99
37) 1,1-Dichloroethane	7.475	63	285820	10.36	ppb(v	100
38) 2-Butanone	7.903	72	77931	10.08	ppb(v	96
39) Hexane	8.600	57	246049	9.88	ppb(v	97
40) cis-1,2-Dichloroethene	8.368	61	219695	10.57	ppb(v	95
41) Di-isopropyl Ether	8.600	45	593840	11.17	ppb(v	98
42) Ethyl Acetate	8.625	61	56911	10.50	ppb(v	89
43) Methyl Acrylate	8.613	55	317427	10.37	ppb(v	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11458.D
Acq On : 9 May 2015 9:41 am
Operator : mikel1
Sample : BSD
Misc : MS84855,v5w450,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 09 13:50:24 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44)	Chloroform	8.698	83	344008	10.28	ppb(v	99
45)	2,4-Dimethylpentane	9.598	57	286965	10.68	ppb(v	97
46)	Tetrahydrofuran	9.163	72	76120	10.08	ppb(v	94
47)	1,1,1-Trichloroethane	9.818	97	307025	9.83	ppb(v	99
48)	1,2-Dichloroethane	9.530	62	202605	10.34	ppb(v	100
49)	Benzene	10.356	78	495260	10.04	ppb(v	100
50)	Carbon Tetrachloride	10.527	117	328566	10.01	ppb(v	99
51)	Cyclohexane	10.674	56	245112	10.43	ppb(v	97
52)	2,3-Dimethylpentane	10.968	71	105058	10.73	ppb(v	99
54)	2,2,4-Trimethylpentane	11.665	57	824212	11.27	ppb(v	99
55)	Heptane	12.002	71	160941	11.06	ppb(v	98
56)	Trichloroethene	11.629	95	226310	10.40	ppb(v	98
57)	1,2-Dichloropropane	11.335	63	199102	11.12	ppb(v	97
58)	Dibromomethane	11.304	174	210181	10.72	ppb(v	94
59)	Ethyl Acrylate	11.353	55	395190	10.83	ppb(v	98
60)	Methyl Methacrylate	11.892	69	180172	10.67	ppb(v	93
61)	1,4-Dioxane	11.641	88	121943	9.92	ppb(v#	82
62)	Bromodichloromethane	11.574	83	381885	10.66	ppb(v	100
63)	cis-1,3-Dichloropropene	12.705	75	299864	10.73	ppb(v	98
64)	4-Methyl-2-pentanone	12.766	58	163424	11.17	ppb(v	98
65)	trans-1,3-Dichloropropene	13.384	75	271042	10.81	ppb(v	98
66)	Toluene	13.966	91	603315	10.50	ppb(v	99
67)	1,1,2-Trichloroethane	13.605	97	213370	10.63	ppb(v	99
68)	2-Hexanone	14.345	58	231205	10.75	ppb(v	100
69)	Ethyl Methacrylate	14.363	69	326711	10.87	ppb(v	97
70)	Dibromochloromethane	14.528	129	392456	10.57	ppb(v	99
71)	Tetrachloroethene	15.495	166	297538	10.63	ppb(v	98
72)	1,2-Dibromoethane	14.853	107	346914	10.55	ppb(v	99
73)	Octane	15.324	43	396453	11.13	ppb(v	97
74)	1,1,1,2-Tetrachloroethane	16.419	131	258187	10.70	ppb(v	99
76)	Chlorobenzene	16.437	112	468573	10.45	ppb(v	97
77)	Ethylbenzene	16.988	91	771148	10.59	ppb(v	98
78)	m,p-Xylene	17.263	91	1195582	20.47	ppb(v	98
79)	Styrene	17.783	104	445748	11.01	ppb(v	98
80)	Nonane	18.315	43	419402	11.36	ppb(v	95
81)	o-Xylene	17.936	91	620159	10.91	ppb(v	98
82)	Bromoform	17.336	173	394941	11.16	ppb(v	100
83)	1,1,2,2-Tetrachloroethane	17.930	83	521450	11.04	ppb(v	97
84)	1,2,3-Trichloropropane	18.126	75	355136	10.88	ppb(v	97
85)	Isopropylbenzene	18.841	105	845413	10.82	ppb(v	99
86)	Bromobenzene	18.951	156	274816	10.75	ppb(v	94
87)	2-Chlorotoluene	19.527	126	205948	10.65	ppb(v	95
88)	n-Propylbenzene	19.594	120	222724	11.06	ppb(v	99
90)	4-Ethyltoluene	19.802	105	826394	10.94	ppb(v	99
91)	1,3,5-Trimethylbenzene	19.918	105	682871	10.66	ppb(v	100
92)	alpha-Methylstyrene	20.132	118	342393	11.27	ppb(v	99
93)	tert-Butylbenzene	20.463	134	142399	10.97	ppb(v	93
94)	1,2,4-Trimethylbenzene	20.475	105	712510	11.12	ppb(v	95
95)	1,3-Dichlorobenzene	20.664	146	463153	10.63	ppb(v	98
96)	Benzyl Chloride	20.646	91	635509	10.97	ppb(v	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11458.D
Acq On : 9 May 2015 9:41 am
Operator : mikel1
Sample : BSD
Misc : MS84855,v5w450,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 09 13:50:24 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

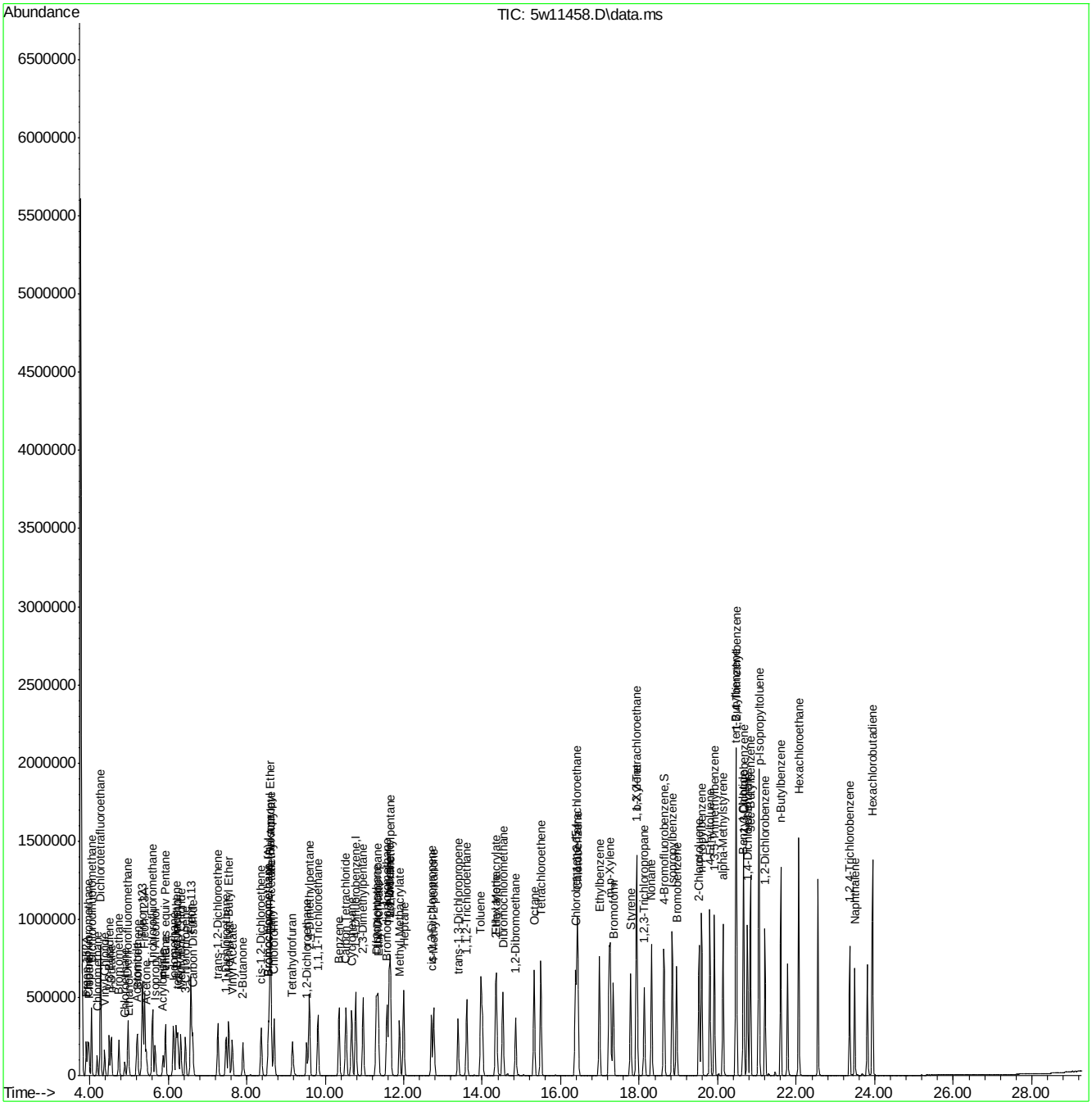
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,4-Dichlorobenzene	20.756	146	455459	10.63	ppb(v	98
98)	sec-Butylbenzene	20.836	134	177659	10.72	ppb(v	95
99)	p-Isopropyltoluene	21.056	134	205024	11.32	ppb(v	99
100)	1,2-Dichlorobenzene	21.203	146	434795	10.52	ppb(v	97
101)	n-Butylbenzene	21.607	134	183070	11.35	ppb(v	89
102)	Hexachloroethane	22.065	201	278348	11.67	ppb(v	95
103)	1,2,4-Trichlorobenzene	23.362	180	274910	10.61	ppb(v	100
104)	Naphthalene	23.491	128	567379	10.86	ppb(v	99
105)	Hexachlorobutadiene	23.944	225	289540	9.49	ppb(v	99
107)	TVHC as equiv Pentane	5.933	TIC	673153	10.03	ppb(v	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11458.D
Acq On : 9 May 2015 9:41 am
Operator : mikel1
Sample : BSD
Misc : MS84855,v5w450,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 09 13:50:24 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11480.D
Acq On : 11 May 2015 9:13 am
Operator : mikel1
Sample : BS
Misc : MS84920,v5w451,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 12 06:43:28 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.551	130	137900	10.00	ppb(v	-0.02
53) 1,4-Difluorobenzene	10.778	114	498500	10.00	ppb(v	-0.02
75) Chlorobenzene-d5	16.376	82	259660	10.00	ppb(v	-0.03
106) Bromochloromethane (A)	8.551	130	137900	10.00	ppb(v	-0.02
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.627	95	335305	9.90	ppb(v	-0.04
Spiked Amount 10.000	Range 65 - 128		Recovery = 99.00%			
Target Compounds						Qvalue
3) Freon 152A	3.914	65	76759	8.99	ppb(v	99
4) Chlorodifluoromethane	3.951	67	30428	9.36	ppb(v	97
5) Propene	3.982	41	84631	8.53	ppb(v	99
6) Dichlorodifluoromethane	4.049	85	336930	9.47	ppb(v	99
8) Chloromethane	4.190	50	117040	10.15	ppb(v	99
9) Dichlorotetrafluoroethane	4.275	85	376125	10.77	ppb(v	98
10) Vinyl Chloride	4.385	62	145108	10.51	ppb(v	100
11) 1,3-Butadiene	4.502	54	99733	10.23	ppb(v	97
12) n-Butane	4.550	58	21587	10.94	ppb(v	96
13) Bromomethane	4.746	94	147313	10.45	ppb(v	98
14) Chloroethane	4.899	64	69375	10.28	ppb(v	99
15) Dichlorofluoromethane	4.973	67	314684	10.28	ppb(v	99
16) Acetonitrile	5.199	41	107265	8.74	ppb(v	99
17) Freon 123	5.346	83	357063	10.52	ppb(v	100
18) Freon 123A	5.401	117	181920	10.36	ppb(v	98
19) Bromoethene	5.217	106	141844	10.88	ppb(v	98
20) Trichlorofluoromethane	5.597	101	347951	10.18	ppb(v	100
21) Acetone	5.438	58	61875	9.58	ppb(v	95
22) Pentane	5.933	57	29968	9.06	ppb(v	98
24) Iodomethane	6.135	142	365948	9.91	ppb(v	97
25) Isopropyl Alcohol	5.664	45	233890	9.19	ppb(v	95
26) 1,1-Dichloroethene	6.202	61	193742	9.23	ppb(v	99
27) Freon 113	6.575	101	275346	9.58	ppb(v	99
28) Methylene Chloride	6.319	84	117965	9.22	ppb(v	98
29) Carbon Disulfide	6.624	76	387882	9.51	ppb(v	99
30) Ethanol	5.003	45	55648	8.53	ppb(v	98
31) Acrylonitrile	5.872	53	96109	8.86	ppb(v	98
32) 3-Chloropropene	6.435	76	58510	9.70	ppb(v	96
33) trans-1,2-Dichloroethene	7.267	61	181815	9.01	ppb(v	98
34) tert-Butyl Alcohol	6.239	59	282848	8.82	ppb(v	99
35) Methyl tert-Butyl Ether	7.542	73	330907	8.94	ppb(v	98
36) Vinyl Acetate	7.628	43	324102	9.32	ppb(v	100
37) 1,1-Dichloroethane	7.475	63	228347	8.94	ppb(v	99
38) 2-Butanone	7.897	72	61452	8.58	ppb(v	97
39) Hexane	8.594	57	191804	8.31	ppb(v	92
40) cis-1,2-Dichloroethene	8.368	61	172957	8.98	ppb(v	99
41) Di-isopropyl Ether	8.594	45	448578	9.11	ppb(v	99
42) Ethyl Acetate	8.625	61	44278	8.81	ppb(v	97
43) Methyl Acrylate	8.607	55	246716	8.70	ppb(v	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11480.D
Acq On : 11 May 2015 9:13 am
Operator : mikel1
Sample : BS
Misc : MS84920,v5w451,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 12 06:43:28 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44)	Chloroform	8.698	83	283802	9.15	ppb(v	99
45)	2,4-Dimethylpentane	9.591	57	221875	8.91	ppb(v	98
46)	Tetrahydrofuran	9.163	72	59466	8.50	ppb(v	97
47)	1,1,1-Trichloroethane	9.812	97	261080	9.02	ppb(v	99
48)	1,2-Dichloroethane	9.524	62	165453	9.11	ppb(v	100
49)	Benzene	10.350	78	400012	8.75	ppb(v	100
50)	Carbon Tetrachloride	10.527	117	282971	9.31	ppb(v	100
51)	Cyclohexane	10.674	56	188016	8.63	ppb(v	99
52)	2,3-Dimethylpentane	10.962	71	83333	9.19	ppb(v	98
54)	2,2,4-Trimethylpentane	11.659	57	642229	9.66	ppb(v	100
55)	Heptane	11.996	71	128333	9.69	ppb(v	98
56)	Trichloroethene	11.623	95	189179	9.56	ppb(v	99
57)	1,2-Dichloropropane	11.329	63	155341	9.54	ppb(v	99
58)	Dibromomethane	11.298	174	182859	10.26	ppb(v	96
59)	Ethyl Acrylate	11.353	55	299493	9.02	ppb(v	99
60)	Methyl Methacrylate	11.886	69	139808	9.10	ppb(v	97
61)	1,4-Dioxane	11.635	88	100836	9.02	ppb(v	96
62)	Bromodichloromethane	11.574	83	315969	9.70	ppb(v	99
63)	cis-1,3-Dichloropropene	12.705	75	239074	9.41	ppb(v	99
64)	4-Methyl-2-pentanone	12.760	58	123961	9.32	ppb(v	99
65)	trans-1,3-Dichloropropene	13.384	75	216223	9.49	ppb(v	99
66)	Toluene	13.966	91	490036	9.38	ppb(v	99
67)	1,1,2-Trichloroethane	13.605	97	178594	9.78	ppb(v	99
68)	2-Hexanone	14.339	58	175446	8.97	ppb(v	98
69)	Ethyl Methacrylate	14.357	69	253321	9.27	ppb(v	99
70)	Dibromochloromethane	14.522	129	336520	9.97	ppb(v	99
71)	Tetrachloroethene	15.489	166	257651	10.12	ppb(v	99
72)	1,2-Dibromoethane	14.853	107	287872	9.63	ppb(v	99
73)	Octane	15.318	43	301106	9.29	ppb(v	100
74)	1,1,1,2-Tetrachloroethane	16.413	131	220668	10.05	ppb(v	98
76)	Chlorobenzene	16.437	112	391301	10.06	ppb(v	99
77)	Ethylbenzene	16.982	91	624089	9.89	ppb(v	98
78)	m,p-Xylene	17.257	91	993345	19.62	ppb(v	99
79)	Styrene	17.777	104	363351	10.35	ppb(v	99
80)	Nonane	18.309	43	315526	9.86	ppb(v	96
81)	o-Xylene	17.936	91	504565	10.24	ppb(v	99
82)	Bromoform	17.337	173	346464	11.29	ppb(v	99
83)	1,1,2,2-Tetrachloroethane	17.930	83	421168	10.29	ppb(v	99
84)	1,2,3-Trichloropropane	18.126	75	286895	10.13	ppb(v	99
85)	Isopropylbenzene	18.841	105	695215	10.26	ppb(v	99
86)	Bromobenzene	18.952	156	235976	10.65	ppb(v	99
87)	2-Chlorotoluene	19.521	126	171676	10.24	ppb(v	96
88)	n-Propylbenzene	19.588	120	186503	10.68	ppb(v	100
90)	4-Ethyltoluene	19.802	105	684988	10.46	ppb(v	99
91)	1,3,5-Trimethylbenzene	19.912	105	570728	10.27	ppb(v	98
92)	alpha-Methylstyrene	20.132	118	284547	10.80	ppb(v	99
93)	tert-Butylbenzene	20.463	134	120351	10.69	ppb(v	94
94)	1,2,4-Trimethylbenzene	20.475	105	596839	10.74	ppb(v	98
95)	1,3-Dichlorobenzene	20.658	146	403298	10.68	ppb(v	98
96)	Benzyl Chloride	20.646	91	524682	10.45	ppb(v	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11480.D
Acq On : 11 May 2015 9:13 am
Operator : mikel1
Sample : BS
Misc : MS84920,v5w451,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 12 06:43:28 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

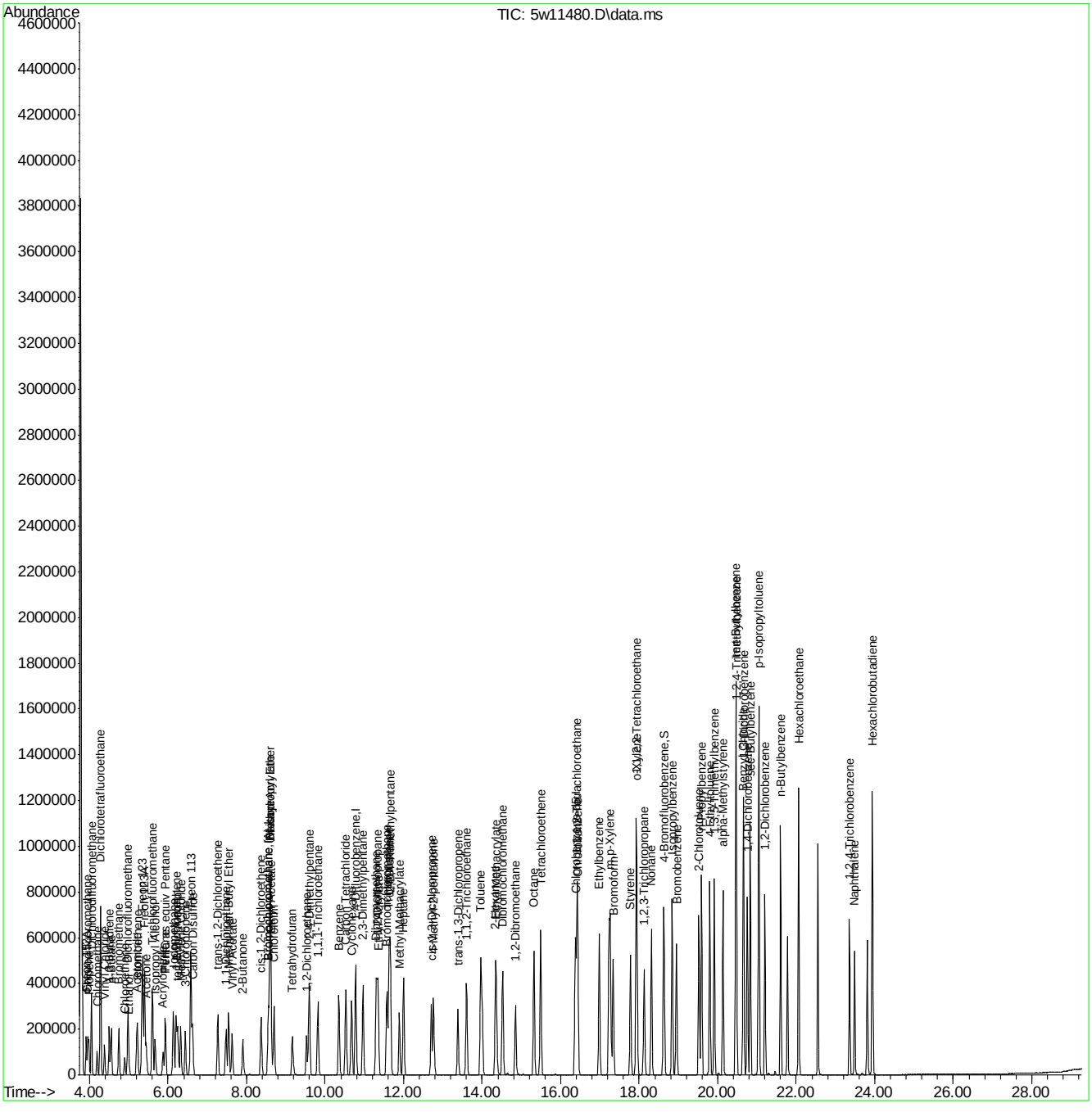
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,4-Dichlorobenzene	20.756	146	388969	10.47	ppb(v	99
98)	sec-Butylbenzene	20.830	134	151460	10.54	ppb(v	94
99)	p-Isopropyltoluene	21.050	134	174928	11.14	ppb(v	95
100)	1,2-Dichlorobenzene	21.203	146	374783	10.46	ppb(v	99
101)	n-Butylbenzene	21.607	134	154230	11.03	ppb(v	100
102)	Hexachloroethane	22.065	201	244544	11.83	ppb(v	97
103)	1,2,4-Trichlorobenzene	23.362	180	232190	10.34	ppb(v	99
104)	Naphthalene	23.485	128	459688	10.15	ppb(v	99
105)	Hexachlorobutadiene	23.938	225	255813	9.67	ppb(v	100
107)	TVHC as equiv Pentane	5.927	TIC	530525	8.53	ppb(v	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11480.D
Acq On : 11 May 2015 9:13 am
Operator : mikel1
Sample : BS
Misc : MS84920,v5w451,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 12 06:43:28 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES JB94203

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11481.D
Acq On : 11 May 2015 9:54 am
Operator : mikel1
Sample : BSD
Misc : MS84920,v5w451,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 12 06:43:36 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.551	130	130109	10.00	ppb(v	-0.02
53) 1,4-Difluorobenzene	10.778	114	469007	10.00	ppb(v	-0.02
75) Chlorobenzene-d5	16.376	82	247682	10.00	ppb(v	-0.03
106) Bromochloromethane (A)	8.551	130	130109	10.00	ppb(v	-0.02
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.627	95	321438	9.95	ppb(v	-0.04
Spiked Amount 10.000	Range 65 - 128		Recovery = 99.50%			
Target Compounds						Qvalue
3) Freon 152A	3.908	65	73689	9.15	ppb(v	98
4) Chlorodifluoromethane	3.951	67	29200	9.52	ppb(v	100
5) Propene	3.975	41	80700	8.62	ppb(v	97
6) Dichlorodifluoromethane	4.043	85	325377	9.69	ppb(v	99
8) Chloromethane	4.189	50	111278	10.23	ppb(v	100
9) Dichlorotetrafluoroethane	4.275	85	360061	10.93	ppb(v	99
10) Vinyl Chloride	4.379	62	139501	10.71	ppb(v	99
11) 1,3-Butadiene	4.501	54	95865	10.42	ppb(v	97
12) n-Butane	4.544	58	20598	11.07	ppb(v	97
13) Bromomethane	4.740	94	139825	10.52	ppb(v	98
14) Chloroethane	4.893	64	65841	10.34	ppb(v	99
15) Dichlorofluoromethane	4.973	67	302352	10.47	ppb(v	100
16) Acetonitrile	5.193	41	102962	8.90	ppb(v	100
17) Freon 123	5.346	83	346586	10.82	ppb(v	99
18) Freon 123A	5.395	117	177428	10.71	ppb(v	95
19) Bromoethene	5.211	106	138957	11.30	ppb(v	99
20) Trichlorofluoromethane	5.597	101	339142	10.52	ppb(v	100
21) Acetone	5.437	58	59729	9.80	ppb(v	96
22) Pentane	5.927	57	29036	9.30	ppb(v	95
24) Iodomethane	6.135	142	358486	10.29	ppb(v	97
25) Isopropyl Alcohol	5.664	45	228309	9.51	ppb(v	96
26) 1,1-Dichloroethene	6.202	61	190532	9.62	ppb(v	99
27) Freon 113	6.575	101	267369	9.86	ppb(v	99
28) Methylene Chloride	6.318	84	113800	9.42	ppb(v	99
29) Carbon Disulfide	6.624	76	375958	9.77	ppb(v	99
30) Ethanol	4.997	45	52498	8.53	ppb(v	99
31) Acrylonitrile	5.872	53	92909	9.08	ppb(v	99
32) 3-Chloropropene	6.435	76	57069	10.03	ppb(v	96
33) trans-1,2-Dichloroethene	7.261	61	176296	9.26	ppb(v	97
34) tert-Butyl Alcohol	6.239	59	276785	9.15	ppb(v	99
35) Methyl tert-Butyl Ether	7.536	73	323824	9.27	ppb(v	99
36) Vinyl Acetate	7.628	43	313187	9.55	ppb(v	99
37) 1,1-Dichloroethane	7.475	63	221921	9.21	ppb(v	100
38) 2-Butanone	7.897	72	59499	8.80	ppb(v	97
39) Hexane	8.594	57	187822	8.63	ppb(v	92
40) cis-1,2-Dichloroethene	8.368	61	167803	9.23	ppb(v	99
41) Di-isopropyl Ether	8.594	45	439118	9.45	ppb(v	98
42) Ethyl Acetate	8.619	61	43553	9.19	ppb(v	90
43) Methyl Acrylate	8.606	55	240800	9.00	ppb(v	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11481.D
Acq On : 11 May 2015 9:54 am
Operator : mikel1
Sample : BSD
Misc : MS84920,v5w451,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 12 06:43:36 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Chloroform	8.698	83	278930	9.53	ppb(v	98
45) 2,4-Dimethylpentane	9.591	57	216288	9.21	ppb(v	99
46) Tetrahydrofuran	9.163	72	58789	8.91	ppb(v	98
47) 1,1,1-Trichloroethane	9.812	97	255472	9.35	ppb(v	99
48) 1,2-Dichloroethane	9.524	62	161801	9.44	ppb(v	99
49) Benzene	10.350	78	392448	9.10	ppb(v	100
50) Carbon Tetrachloride	10.527	117	278910	9.72	ppb(v	100
51) Cyclohexane	10.674	56	184211	8.97	ppb(v	100
52) 2,3-Dimethylpentane	10.962	71	81317	9.50	ppb(v	99
54) 2,2,4-Trimethylpentane	11.659	57	629089	10.06	ppb(v	99
55) Heptane	11.996	71	124563	10.00	ppb(v	97
56) Trichloroethene	11.622	95	184481	9.91	ppb(v	98
57) 1,2-Dichloropropane	11.329	63	152728	9.97	ppb(v	99
58) Dibromomethane	11.298	174	179392	10.70	ppb(v	97
59) Ethyl Acrylate	11.353	55	292454	9.36	ppb(v	100
60) Methyl Methacrylate	11.892	69	137921	9.54	ppb(v	99
61) 1,4-Dioxane	11.635	88	97356	9.26	ppb(v	95
62) Bromodichloromethane	11.573	83	308956	10.08	ppb(v	100
63) cis-1,3-Dichloropropene	12.705	75	234166	9.80	ppb(v	99
64) 4-Methyl-2-pentanone	12.760	58	122353	9.78	ppb(v	99
65) trans-1,3-Dichloropropene	13.384	75	212645	9.92	ppb(v	99
66) Toluene	13.966	91	480755	9.78	ppb(v	99
67) 1,1,2-Trichloroethane	13.605	97	174026	10.13	ppb(v	99
68) 2-Hexanone	14.339	58	171933	9.34	ppb(v	98
69) Ethyl Methacrylate	14.363	69	249247	9.70	ppb(v	99
70) Dibromochloromethane	14.522	129	334766	10.54	ppb(v	99
71) Tetrachloroethene	15.489	166	250378	10.46	ppb(v	98
72) 1,2-Dibromoethane	14.853	107	284062	10.10	ppb(v	97
73) Octane	15.318	43	290418	9.53	ppb(v	99
74) 1,1,1,2-Tetrachloroethane	16.413	131	218746	10.59	ppb(v	98
76) Chlorobenzene	16.437	112	387065	10.43	ppb(v	99
77) Ethylbenzene	16.982	91	620603	10.31	ppb(v	99
78) m,p-Xylene	17.257	91	972175	20.13	ppb(v	99
79) Styrene	17.777	104	356938	10.66	ppb(v	99
80) Nonane	18.309	43	305970	10.02	ppb(v	97
81) o-Xylene	17.936	91	496162	10.56	ppb(v	99
82) Bromoform	17.336	173	341525	11.67	ppb(v	100
83) 1,1,2,2-Tetrachloroethane	17.930	83	415137	10.63	ppb(v	99
84) 1,2,3-Trichloropropane	18.126	75	280359	10.38	ppb(v	100
85) Isopropylbenzene	18.841	105	687513	10.64	ppb(v	100
86) Bromobenzene	18.951	156	234227	11.08	ppb(v	99
87) 2-Chlorotoluene	19.520	126	170773	10.67	ppb(v	96
88) n-Propylbenzene	19.588	120	183775	11.03	ppb(v	99
90) 4-Ethyltoluene	19.802	105	677684	10.85	ppb(v	99
91) 1,3,5-Trimethylbenzene	19.912	105	560937	10.58	ppb(v	99
92) alpha-Methylstyrene	20.132	118	282019	11.22	ppb(v	99
93) tert-Butylbenzene	20.463	134	119120	11.09	ppb(v	94
94) 1,2,4-Trimethylbenzene	20.475	105	587242	11.08	ppb(v	98
95) 1,3-Dichlorobenzene	20.658	146	396138	10.99	ppb(v	98
96) Benzyl Chloride	20.646	91	518269	10.82	ppb(v	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11481.D
Acq On : 11 May 2015 9:54 am
Operator : mikel1
Sample : BSD
Misc : MS84920,v5w451,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 12 06:43:36 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

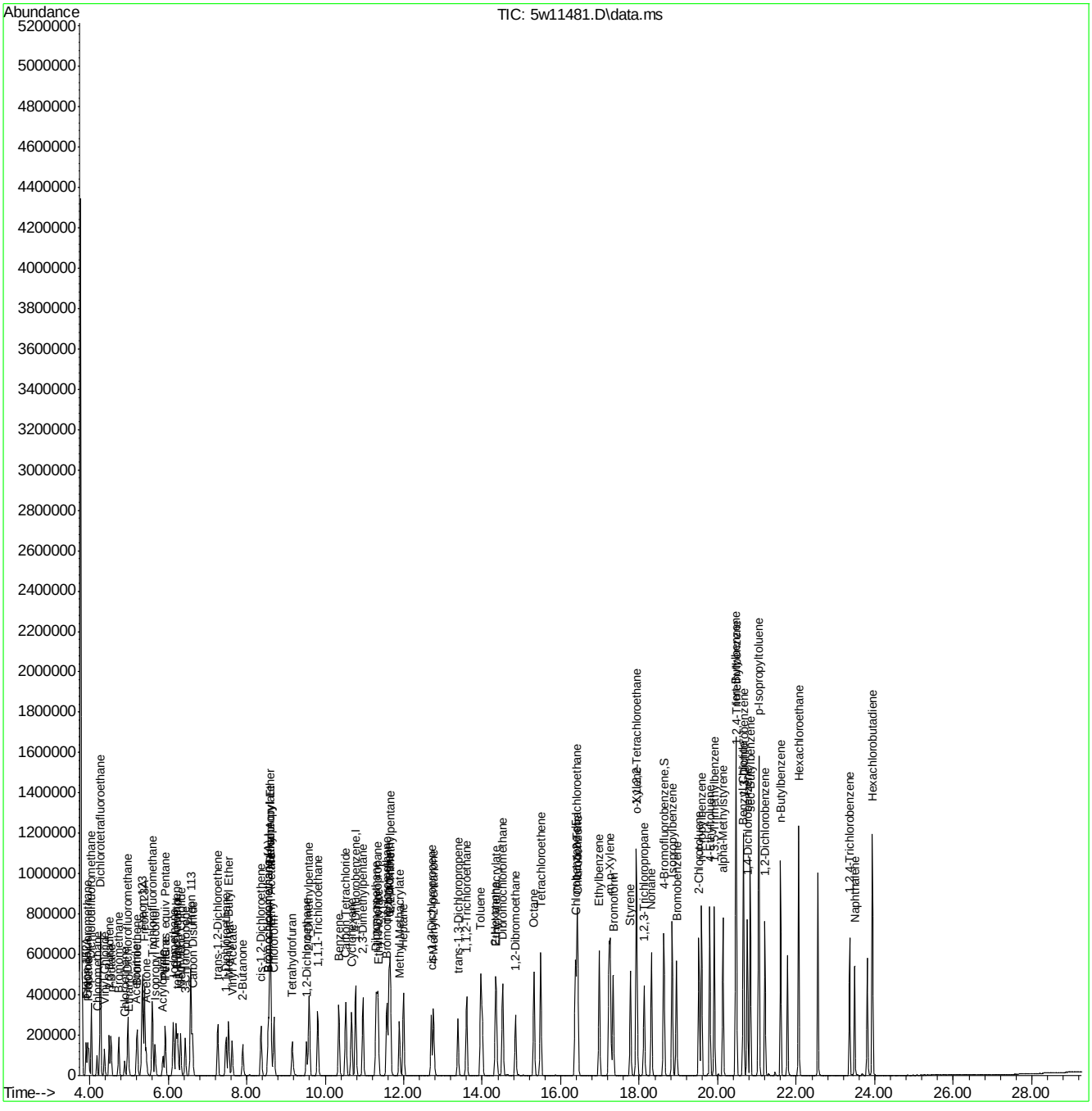
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,4-Dichlorobenzene	20.756	146	384856	10.86	ppb(v	99
98)	sec-Butylbenzene	20.830	134	150099	10.95	ppb(v	94
99)	p-Isopropyltoluene	21.050	134	172393	11.51	ppb(v	94
100)	1,2-Dichlorobenzene	21.203	146	370133	10.83	ppb(v	99
101)	n-Butylbenzene	21.607	134	153334	11.49	ppb(v	98
102)	Hexachloroethane	22.065	201	241417	12.24	ppb(v	98
103)	1,2,4-Trichlorobenzene	23.362	180	232873	10.87	ppb(v	99
104)	Naphthalene	23.491	128	466098	10.79	ppb(v	100
105)	Hexachlorobutadiene	23.944	225	250306	9.92	ppb(v	99
107)	TVHC as equiv Pentane	5.927	TIC	511946	8.73	ppb(v	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11481.D
Acq On : 11 May 2015 9:54 am
Operator : mikel1
Sample : BSD
Misc : MS84920,v5w451,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 12 06:43:36 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11507.D
Acq On : 12 May 2015 10:01 am
Operator : mikel1
Sample : BS
Misc : MS84578,v5w452,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 06:41:02 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.552	130	124765	10.00	ppb(v	-0.02
53) 1,4-Difluorobenzene	10.778	114	454854	10.00	ppb(v	-0.02
75) Chlorobenzene-d5	16.376	82	245840	10.00	ppb(v	-0.03
106) Bromochloromethane (A)	8.552	130	124765	10.00	ppb(v	-0.02
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.627	95	318674	9.94	ppb(v	-0.04
Spiked Amount 10.000	Range 65 - 128		Recovery = 99.40%			
Target Compounds						Qvalue
3) Freon 152A	3.908	65	80359	10.41	ppb(v	99
4) Chlorodifluoromethane	3.945	67	31444	10.69	ppb(v	99
5) Propene	3.976	41	90393	10.07	ppb(v	99
6) Dichlorodifluoromethane	4.037	85	345834	10.74	ppb(v	99
8) Chloromethane	4.184	50	125273	12.01	ppb(v	99
9) Dichlorotetrafluoroethane	4.269	85	382568	12.11	ppb(v	96
10) Vinyl Chloride	4.379	62	150666	12.06	ppb(v	100
11) 1,3-Butadiene	4.496	54	104916	11.89	ppb(v	99
12) n-Butane	4.544	58	22355	12.53	ppb(v	87
13) Bromomethane	4.740	94	147862	11.60	ppb(v	98
14) Chloroethane	4.893	64	71645	11.74	ppb(v	98
15) Dichlorofluoromethane	4.967	67	328283	11.86	ppb(v	99
16) Acetonitrile	5.193	41	117856	10.62	ppb(v	99
17) Freon 123	5.340	83	365793	11.91	ppb(v	99
18) Freon 123A	5.395	117	194180	12.22	ppb(v	91
19) Bromoethene	5.211	106	142605	12.09	ppb(v	99
20) Trichlorofluoromethane	5.591	101	354885	11.48	ppb(v	100
21) Acetone	5.438	58	65775	11.25	ppb(v	99
22) Pentane	5.927	57	31363	10.48	ppb(v	95
24) Iodomethane	6.129	142	360360	10.79	ppb(v	99
25) Isopropyl Alcohol	5.664	45	253239	11.00	ppb(v	96
26) 1,1-Dichloroethene	6.196	61	200378	10.55	ppb(v	98
27) Freon 113	6.569	101	277860	10.68	ppb(v	97
28) Methylene Chloride	6.313	84	119659	10.33	ppb(v	95
29) Carbon Disulfide	6.618	76	397038	10.75	ppb(v	99
30) Ethanol	4.997	45	59781	10.13	ppb(v	99
31) Acrylonitrile	5.866	53	100105	10.20	ppb(v	99
32) 3-Chloropropene	6.435	76	59293	10.86	ppb(v	94
33) trans-1,2-Dichloroethene	7.261	61	185251	10.15	ppb(v	96
34) tert-Butyl Alcohol	6.239	59	289486	9.98	ppb(v	99
35) Methyl tert-Butyl Ether	7.536	73	332175	9.92	ppb(v	97
36) Vinyl Acetate	7.628	43	338884	10.77	ppb(v	99
37) 1,1-Dichloroethane	7.469	63	236205	10.22	ppb(v	100
38) 2-Butanone	7.897	72	62776	9.68	ppb(v	94
39) Hexane	8.594	57	198983	9.53	ppb(v	96
40) cis-1,2-Dichloroethene	8.368	61	176103	10.10	ppb(v	98
41) Di-isopropyl Ether	8.594	45	475027	10.66	ppb(v	99
42) Ethyl Acetate	8.619	61	46336	10.20	ppb(v	88
43) Methyl Acrylate	8.607	55	258324	10.07	ppb(v	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11507.D
Acq On : 12 May 2015 10:01 am
Operator : mikel1
Sample : BS
Misc : MS84578,v5w452,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 06:41:02 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44)	Chloroform	8.692	83	289940	10.33	ppb(v	100
45)	2,4-Dimethylpentane	9.592	57	229736	10.20	ppb(v	98
46)	Tetrahydrofuran	9.163	72	59694	9.43	ppb(v	96
47)	1,1,1-Trichloroethane	9.812	97	263853	10.07	ppb(v	99
48)	1,2-Dichloroethane	9.524	62	171473	10.43	ppb(v	99
49)	Benzene	10.350	78	405493	9.81	ppb(v	100
50)	Carbon Tetrachloride	10.528	117	284887	10.36	ppb(v	99
51)	Cyclohexane	10.668	56	192748	9.78	ppb(v	98
52)	2,3-Dimethylpentane	10.962	71	83680	10.20	ppb(v	99
54)	2,2,4-Trimethylpentane	11.659	57	675992	11.14	ppb(v	99
55)	Heptane	11.996	71	129621	10.73	ppb(v	98
56)	Trichloroethene	11.623	95	190125	10.53	ppb(v	97
57)	1,2-Dichloropropane	11.329	63	162844	10.96	ppb(v	98
58)	Dibromomethane	11.298	174	180566	11.10	ppb(v	95
59)	Ethyl Acrylate	11.353	55	312251	10.31	ppb(v	99
60)	Methyl Methacrylate	11.886	69	142511	10.17	ppb(v	94
61)	1,4-Dioxane	11.635	88	100754	9.88	ppb(v#	85
62)	Bromodichloromethane	11.568	83	322462	10.85	ppb(v	99
63)	cis-1,3-Dichloropropene	12.699	75	236776	10.21	ppb(v	98
64)	4-Methyl-2-pentanone	12.761	58	129219	10.64	ppb(v	99
65)	trans-1,3-Dichloropropene	13.378	75	215543	10.36	ppb(v	99
66)	Toluene	13.960	91	486181	10.20	ppb(v	99
67)	1,1,2-Trichloroethane	13.599	97	178562	10.72	ppb(v	99
68)	2-Hexanone	14.339	58	182247	10.21	ppb(v	98
69)	Ethyl Methacrylate	14.357	69	259717	10.42	ppb(v	98
70)	Dibromochloromethane	14.522	129	334764	10.87	ppb(v	100
71)	Tetrachloroethene	15.489	166	250684	10.80	ppb(v	99
72)	1,2-Dibromoethane	14.847	107	285950	10.48	ppb(v	99
73)	Octane	15.318	43	313415	10.60	ppb(v	97
74)	1,1,1,2-Tetrachloroethane	16.413	131	218300	10.90	ppb(v	99
76)	Chlorobenzene	16.431	112	385538	10.47	ppb(v	98
77)	Ethylbenzene	16.982	91	621900	10.41	ppb(v	99
78)	m,p-Xylene	17.257	91	1059775	22.11	ppb(v	98
79)	Styrene	17.777	104	355512	10.70	ppb(v	97
80)	Nonane	18.309	43	333914	11.02	ppb(v	95
81)	o-Xylene	17.936	91	506035	10.85	ppb(v	98
82)	Bromoform	17.330	173	336596	11.59	ppb(v	99
83)	1,1,2,2-Tetrachloroethane	17.930	83	433195	11.18	ppb(v	98
84)	1,2,3-Trichloropropane	18.126	75	291302	10.87	ppb(v	98
85)	Isopropylbenzene	18.842	105	697082	10.87	ppb(v	99
86)	Bromobenzene	18.952	156	232914	11.10	ppb(v	97
87)	2-Chlorotoluene	19.521	126	168305	10.60	ppb(v	94
88)	n-Propylbenzene	19.588	120	184036	11.13	ppb(v	95
90)	4-Ethyltoluene	19.802	105	681221	10.99	ppb(v	99
91)	1,3,5-Trimethylbenzene	19.912	105	571132	10.86	ppb(v	99
92)	alpha-Methylstyrene	20.132	118	281887	11.30	ppb(v	99
93)	tert-Butylbenzene	20.463	134	118775	11.14	ppb(v	89
94)	1,2,4-Trimethylbenzene	20.475	105	597015	11.34	ppb(v	98
95)	1,3-Dichlorobenzene	20.659	146	393023	10.99	ppb(v	98
96)	Benzyl Chloride	20.646	91	519052	10.92	ppb(v	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11507.D
Acq On : 12 May 2015 10:01 am
Operator : mikel1
Sample : BS
Misc : MS84578,v5w452,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 06:41:02 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

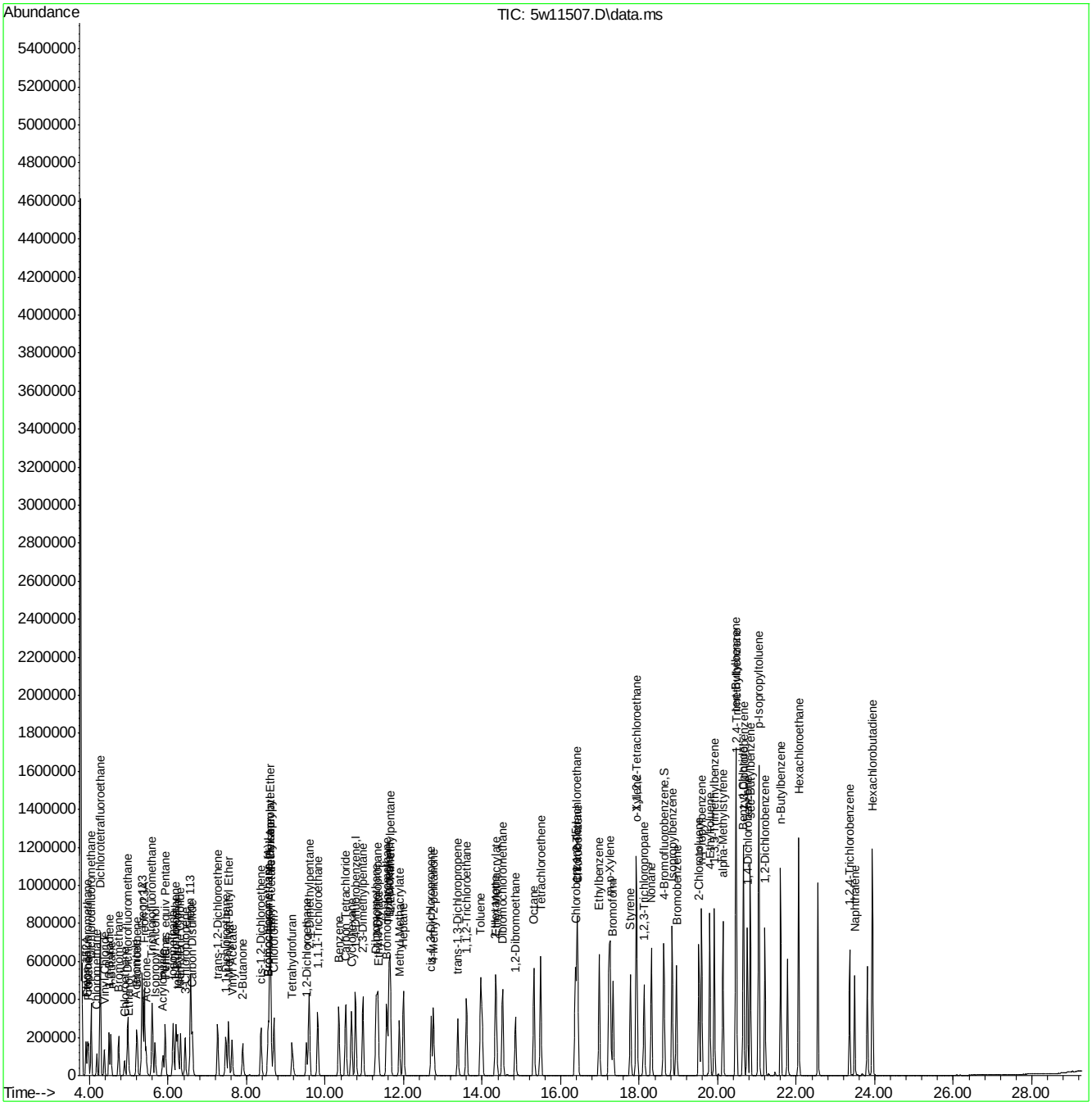
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,4-Dichlorobenzene	20.756	146	380581	10.82	ppb(v	98
98)	sec-Butylbenzene	20.830	134	149828	11.01	ppb(v	89
99)	p-Isopropyltoluene	21.050	134	173357	11.66	ppb(v	93
100)	1,2-Dichlorobenzene	21.203	146	365961	10.79	ppb(v	98
101)	n-Butylbenzene	21.601	134	149414	11.28	ppb(v	85
102)	Hexachloroethane	22.066	201	237309	12.12	ppb(v	99
103)	1,2,4-Trichlorobenzene	23.363	180	221125	10.40	ppb(v	99
104)	Naphthalene	23.491	128	443958	10.35	ppb(v	99
105)	Hexachlorobutadiene	23.944	225	244941	9.78	ppb(v	99
107)	TVHC as equiv Pentane	5.927	TIC	549201	9.76	ppb(v	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11507.D
Acq On : 12 May 2015 10:01 am
Operator : mikel1
Sample : BS
Misc : MS84578,v5w452,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 06:41:02 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES JB94203

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11508.D
Acq On : 12 May 2015 10:45 am
Operator : mikel1
Sample : BSD
Misc : MS84578,v5w452,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 06:41:10 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.551	130	124126	10.00	ppb(v	-0.02
53) 1,4-Difluorobenzene	10.772	114	448506	10.00	ppb(v	-0.03
75) Chlorobenzene-d5	16.376	82	244212	10.00	ppb(v	-0.03
106) Bromochloromethane (A)	8.551	130	124126	10.00	ppb(v	-0.02
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.627	95	315443	9.90	ppb(v	-0.04
Spiked Amount 10.000	Range 65 - 128		Recovery = 99.00%			
Target Compounds						Qvalue
3) Freon 152A	3.902	65	74709	9.73	ppb(v	100
4) Chlorodifluoromethane	3.945	67	29430	10.06	ppb(v	100
5) Propene	3.975	41	83754	9.38	ppb(v	98
6) Dichlorodifluoromethane	4.037	85	326372	10.19	ppb(v	99
8) Chloromethane	4.183	50	114468	11.03	ppb(v	98
9) Dichlorotetrafluoroethane	4.269	85	361682	11.50	ppb(v	98
10) Vinyl Chloride	4.373	62	141637	11.39	ppb(v	99
11) 1,3-Butadiene	4.495	54	98363	11.21	ppb(v	98
12) n-Butane	4.544	58	21069	11.87	ppb(v	95
13) Bromomethane	4.740	94	139766	11.02	ppb(v	100
14) Chloroethane	4.887	64	67665	11.14	ppb(v	99
15) Dichlorofluoromethane	4.966	67	306762	11.14	ppb(v	100
16) Acetonitrile	5.193	41	109884	9.95	ppb(v	99
17) Freon 123	5.340	83	346852	11.35	ppb(v	99
18) Freon 123A	5.395	117	173332	10.96	ppb(v	94
19) Bromoethene	5.211	106	135078	11.51	ppb(v	99
20) Trichlorofluoromethane	5.590	101	337807	10.98	ppb(v	100
21) Acetone	5.438	58	61729	10.61	ppb(v	96
22) Pentane	5.927	57	29832	10.02	ppb(v	94
24) Iodomethane	6.129	142	346792	10.43	ppb(v	99
25) Isopropyl Alcohol	5.658	45	241310	10.54	ppb(v	96
26) 1,1-Dichloroethene	6.196	61	191279	10.12	ppb(v	98
27) Freon 113	6.569	101	267305	10.33	ppb(v	98
28) Methylene Chloride	6.312	84	114530	9.94	ppb(v	96
29) Carbon Disulfide	6.618	76	377002	10.26	ppb(v	98
30) Ethanol	4.991	45	55447	9.45	ppb(v	99
31) Acrylonitrile	5.866	53	94669	9.70	ppb(v	99
32) 3-Chloropropene	6.429	76	56303	10.37	ppb(v	92
33) trans-1,2-Dichloroethene	7.261	61	177433	9.77	ppb(v	97
34) tert-Butyl Alcohol	6.239	59	276592	9.58	ppb(v	99
35) Methyl tert-Butyl Ether	7.536	73	319223	9.58	ppb(v	97
36) Vinyl Acetate	7.622	43	324644	10.37	ppb(v	98
37) 1,1-Dichloroethane	7.469	63	226099	9.83	ppb(v	98
38) 2-Butanone	7.897	72	59832	9.28	ppb(v	95
39) Hexane	8.594	57	189460	9.12	ppb(v	98
40) cis-1,2-Dichloroethene	8.362	61	167640	9.67	ppb(v	97
41) Di-isopropyl Ether	8.594	45	451133	10.17	ppb(v	99
42) Ethyl Acetate	8.619	61	44090	9.75	ppb(v	96
43) Methyl Acrylate	8.606	55	247075	9.68	ppb(v	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11508.D
Acq On : 12 May 2015 10:45 am
Operator : mikel1
Sample : BSD
Misc : MS84578,v5w452,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 06:41:10 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Chloroform	8.692	83	276733	9.91	ppb(v	99
45) 2,4-Dimethylpentane	9.591	57	219477	9.79	ppb(v	99
46) Tetrahydrofuran	9.157	72	57365	9.11	ppb(v	94
47) 1,1,1-Trichloroethane	9.812	97	252163	9.68	ppb(v	100
48) 1,2-Dichloroethane	9.524	62	163815	10.02	ppb(v	99
49) Benzene	10.350	78	387769	9.43	ppb(v	100
50) Carbon Tetrachloride	10.521	117	272840	9.97	ppb(v	100
51) Cyclohexane	10.668	56	185147	9.45	ppb(v	98
52) 2,3-Dimethylpentane	10.962	71	80199	9.82	ppb(v	96
54) 2,2,4-Trimethylpentane	11.659	57	642126	10.74	ppb(v	99
55) Heptane	11.996	71	124902	10.49	ppb(v	98
56) Trichloroethene	11.623	95	182924	10.27	ppb(v	97
57) 1,2-Dichloropropane	11.329	63	154661	10.56	ppb(v	98
58) Dibromomethane	11.298	174	173707	10.83	ppb(v	96
59) Ethyl Acrylate	11.347	55	298628	10.00	ppb(v	100
60) Methyl Methacrylate	11.886	69	136089	9.85	ppb(v	94
61) 1,4-Dioxane	11.635	88	96330	9.58	ppb(v#	86
62) Bromodichloromethane	11.567	83	304565	10.39	ppb(v	100
63) cis-1,3-Dichloropropene	12.705	75	228425	9.99	ppb(v	99
64) 4-Methyl-2-pentanone	12.760	58	123943	10.35	ppb(v	99
65) trans-1,3-Dichloropropene	13.378	75	211121	10.30	ppb(v	99
66) Toluene	13.966	91	470079	10.00	ppb(v	99
67) 1,1,2-Trichloroethane	13.599	97	171908	10.47	ppb(v	98
68) 2-Hexanone	14.339	58	173176	9.84	ppb(v	99
69) Ethyl Methacrylate	14.357	69	250620	10.20	ppb(v	98
70) Dibromochloromethane	14.522	129	323711	10.66	ppb(v	99
71) Tetrachloroethene	15.489	166	243943	10.65	ppb(v	99
72) 1,2-Dibromoethane	14.847	107	278276	10.34	ppb(v	99
73) Octane	15.318	43	302129	10.36	ppb(v	98
74) 1,1,1,2-Tetrachloroethane	16.413	131	213075	10.79	ppb(v	99
76) Chlorobenzene	16.437	112	377832	10.33	ppb(v	98
77) Ethylbenzene	16.982	91	602350	10.15	ppb(v	98
78) m,p-Xylene	17.257	91	1014872	21.31	ppb(v	99
79) Styrene	17.777	104	345362	10.46	ppb(v	99
80) Nonane	18.315	43	316557	10.51	ppb(v	96
81) o-Xylene	17.936	91	487472	10.52	ppb(v	99
82) Bromoform	17.336	173	328643	11.39	ppb(v	100
83) 1,1,2,2-Tetrachloroethane	17.930	83	414479	10.76	ppb(v	99
84) 1,2,3-Trichloropropane	18.126	75	282984	10.63	ppb(v	99
85) Isopropylbenzene	18.841	105	675778	10.60	ppb(v	99
86) Bromobenzene	18.945	156	225138	10.80	ppb(v	94
87) 2-Chlorotoluene	19.520	126	162814	10.32	ppb(v	95
88) n-Propylbenzene	19.588	120	177121	10.78	ppb(v	93
90) 4-Ethyltoluene	19.802	105	661718	10.74	ppb(v	100
91) 1,3,5-Trimethylbenzene	19.912	105	547246	10.47	ppb(v	99
92) alpha-Methylstyrene	20.132	118	273951	11.06	ppb(v	98
93) tert-Butylbenzene	20.463	134	117325	11.08	ppb(v	93
94) 1,2,4-Trimethylbenzene	20.475	105	585920	11.21	ppb(v	98
95) 1,3-Dichlorobenzene	20.658	146	381792	10.75	ppb(v	98
96) Benzyl Chloride	20.646	91	505892	10.71	ppb(v	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11508.D
Acq On : 12 May 2015 10:45 am
Operator : mikel1
Sample : BSD
Misc : MS84578,v5w452,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 06:41:10 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

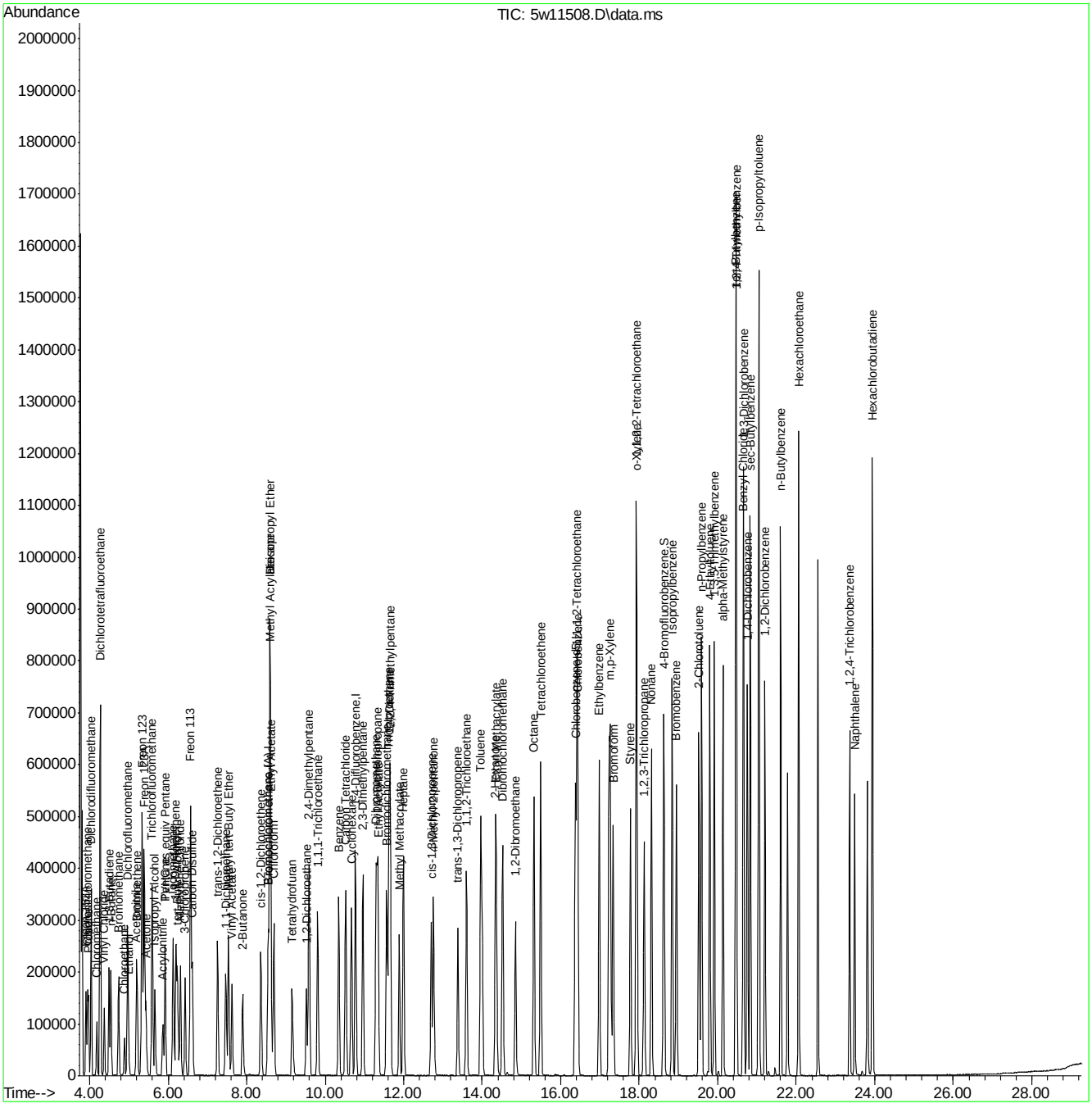
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,4-Dichlorobenzene	20.756	146	367922	10.53	ppb(v	99
98)	sec-Butylbenzene	20.830	134	146823	10.87	ppb(v	93
99)	p-Isopropyltoluene	21.050	134	167823	11.36	ppb(v	92
100)	1,2-Dichlorobenzene	21.203	146	352085	10.45	ppb(v	98
101)	n-Butylbenzene	21.607	134	148360	11.28	ppb(v	94
102)	Hexachloroethane	22.065	201	231174	11.89	ppb(v	99
103)	1,2,4-Trichlorobenzene	23.362	180	220877	10.46	ppb(v	99
104)	Naphthalene	23.491	128	447011	10.49	ppb(v	100
105)	Hexachlorobutadiene	23.944	225	249347	10.02	ppb(v	99
107)	TVHC as equiv Pentane	5.927	TIC	533894	9.54	ppb(v	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11508.D
Acq On : 12 May 2015 10:45 am
Operator : mikel1
Sample : BSD
Misc : MS84578,v5w452,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 06:41:10 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration



m5w419.M Wed May 13 09:15:24 2015 GCMS5W Page: 4

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W51046.D Vial: 3
Acq On : 23 Apr 2015 11:57 am Operator: mikel1
Sample : BS Inst : MSW
Misc : MS83902,VW2039,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:09:39 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	9.33	128	90474	10.00	PPBV	-0.01
49) 1,4-DIFLUOROBENZENE	11.07	114	393671	10.00	PPBV	-0.01
67) CHLOROBENZENE-D5	15.35	82	171177	10.00	PPBV	-0.01

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	16.96	95	200633	10.18	PPBV	-0.01

Spiked Amount 10.000 Range 65 - 128 Recovery = 101.80%

Target Compounds							Qvalue
3) FREON 152A	5.07	65	63895	11.15	PPBV		90
4) CHLORODIFLUOROMETHANE	5.11	67	21089	8.33	PPBV		99
5) DICHLORODIFLUOROMETHANE	5.21	85	250936	8.70	PPBV		100
6) PROPYLENE	5.15	41	72711	9.16	PPBV		97
7) FREON 114	5.46	85	293661	10.09	PPBV		98
9) CHLOROMETHANE	5.38	52	30562	11.03	PPBV	#	89
10) VINYL CHLORIDE	5.58	62	124116	11.15	PPBV		99
11) 1,3-BUTADIENE	5.71	54	94013	10.64	PPBV		93
12) n-BUTANE	5.75	58	26020	11.34	PPBV		87
13) BROMOMETHANE	5.96	94	115191	10.87	PPBV		98
14) CHLOROETHANE	6.11	64	68334	10.87	PPBV		91
15) DICHLOROFLUOROMETHANE	6.18	67	231825	9.26	PPBV		99
16) ACROLEIN	6.51	56	41289	8.47	PPBV		96
17) TRICHLOROFLUOROMETHANE	6.77	101	262420	9.19	PPBV		100
18) ISOPROPYL ALCOHOL	6.82	45	143560	8.02	PPBV		97
19) ACETONE	6.63	58	46641	8.39	PPBV	#	85
21) ACRYLONITRILE	7.02	53	79523	8.78	PPBV		97
22) PENTANE	7.07	57	32896	9.07	PPBV		96
23) IODOMETHANE	7.29	142	301770	9.74	PPBV		92
24) 1,1-DICHLOROETHYLENE	7.33	96	111004	9.63	PPBV		94
25) CARBON DISULFIDE	7.74	76	315036	10.54	PPBV		96
26) ETHANOL	6.19	45	37529	8.39	PPBV		97
27) ACETONITRILE	6.40	41	72102	8.25	PPBV		99
28) BROMOETHENE	6.42	106	121664	11.17	PPBV	#	99
29) METHYLENE CHLORIDE	7.43	84	97739	10.33	PPBV		98
30) 3-CHLOROPROPENE	7.53	76	51113	10.54	PPBV	#	88
31) FREON 113	7.64	151	194922	9.35	PPBV		97
32) TRANS-1,2-DICHLOROETHYLENE	8.25	96	111569	9.03	PPBV		99
33) TERTIARY BUTYL ALCOHOL	7.35	59	172364	8.37	PPBV		98
34) METHYL TERTIARY BUTYL ETHE	8.47	73	233658	7.40	PPBV		98
35) TETRAHYDROFURAN	9.83	72	42420	9.10	PPBV		97
36) HEXANE	9.33	57	206359	12.57	PPBV	#	85
37) VINYL ACETATE	8.52	86	25915	9.28	PPBV	#	91
38) 1,1-DICHLOROETHANE	8.43	63	168384	9.74	PPBV		99
39) METHYL ETHYL KETONE	8.77	72	41445	7.94	PPBV	#	91
40) cis-1,2-DICHLOROETHYLENE	9.17	96	109799	8.58	PPBV		98
41) DI-ISOPROPYL ETHER	9.31	87	80520	8.21	PPBV		95
42) ETHYL ACETATE	9.33	61	28467	8.93	PPBV	#	92
43) METHYL ACRYLATE	9.33	55	166162	8.76	PPBV		98
44) CHLOROFORM	9.43	83	184602	8.32	PPBV		99
45) 2,4-DIMETHYLPENTANE	10.13	57	180939	10.04	PPBV		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W51046.D Vial: 3
Acq On : 23 Apr 2015 11:57 am Operator: mikel1
Sample : BS Inst : MSW
Misc : MS83902,VW2039,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:09:39 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46) 1,1,1-TRICHLOROETHANE	10.35	97	175972	7.60	PPBV		100
47) CARBON TETRACHLORIDE	10.91	117	198003	7.57	PPBV		99
48) 1,2-DICHLOROETHANE	10.11	62	102488	7.71	PPBV		98
50) BENZENE	10.78	78	321889	9.30	PPBV		99
51) CYCLOHEXANE	11.03	84	156301	9.35	PPBV		97
52) 2,3-DIMETHYLPENTANE	11.21	71	72836	9.88	PPBV		100
53) TRICHLOROETHYLENE	11.75	95	137975	8.97	PPBV		100
54) DIBROMOMETHANE	11.52	174	149471	8.28	PPBV		99
55) 1,2-DICHLOROPROPANE	11.53	63	110381	10.00	PPBV		92
56) ETHYL ACRYLATE	11.48	55	167210	7.78	PPBV		98
57) BROMODICHLOROMETHANE	11.72	83	202093	8.26	PPBV		100
58) 2,2,4-TRIMETHYLPENTANE	11.76	57	497892	9.60	PPBV		99
59) 1,4-DIOXANE	11.77	88	59764	7.81	PPBV		91
60) METHYL METHACRYLATE	11.90	69	94336	8.23	PPBV		92
61) HEPTANE	11.99	43	165811	9.07	PPBV		99
62) METHYL ISOBUTYL KETONE	12.59	43	153735	7.74	PPBV		97
63) cis-1,3-DICHLOROPROPENE	12.56	75	172512	9.07	PPBV		89
64) TOLUENE	13.54	92	230101	9.02	PPBV		98
65) trans-1,3-DICHLOROPROPENE	13.07	75	143497	8.29	PPBV		94
66) 1,1,2-TRICHLOROETHANE	13.26	83	99154	9.38	PPBV		99
68) ETHYL METHACRYLATE	13.75	69	140937	8.26	PPBV		97
69) 2-HEXANONE	13.77	58	92774	9.17	PPBV		93
70) TETRACHLOROETHYLENE	14.69	164	171990	8.82	PPBV		97
71) DIBROMOCHLOROMETHANE	13.99	129	224037	8.84	PPBV		99
72) 1,2-DIBROMOETHANE	14.24	107	183091	9.03	PPBV		99
73) OCTANE	14.48	43	223939	9.59	PPBV		98
74) 1,1,1,2-TETRACHLOROETHANE	15.38	131	162486	8.72	PPBV		87
75) CHLOROBENZENE	15.40	112	311788	9.16	PPBV		100
76) ETHYLBENZENE	15.78	91	447756	8.94	PPBV		100
77) m,p-XYLENE	15.97	106	383419	18.17	PPBV		99
78) o-XYLENE	16.47	106	178402	9.26	PPBV		98
79) STYRENE	16.36	104	287613	9.28	PPBV		98
80) 1,2,3-TRICHLOROPROPANE	16.61	75	167341	8.35	PPBV		96
81) NONANE	16.65	43	235126	9.94	PPBV		98
82) BROMOFORM	16.09	173	228984	8.82	PPBV		99
84) 1,1,2,2-TETRACHLOROETHANE	16.47	83	241157	9.11	PPBV		99
85) ISOPROPYLBENZENE	17.09	105	512850	8.57	PPBV		100
86) BROMOBENZENE	17.22	156	169474	8.60	PPBV		97
87) 2-CHLOROTOLUENE	17.62	126	127360	8.95	PPBV	#	90
88) n-PROPYLBENZENE	17.64	120	141173	8.93	PPBV		94
89) 4-ETHYLTOLUENE	17.79	105	439242	8.51	PPBV		100
90) 1,3,5-TRIMETHYLBENZENE	17.87	105	409049	8.26	PPBV		99
91) ALPHA-METHYLSTYRENE	18.05	118	193725	8.85	PPBV		99
92) TERT-BUTYLBENZENE	18.32	134	101171	8.48	PPBV		96
93) 1,2,4-TRIMETHYLBENZENE	18.33	105	375532	8.21	PPBV		99
94) m-DICHLOROBENZENE	18.51	146	250529	8.55	PPBV		99
95) BENZYL CHLORIDE	18.49	91	258166	8.35	PPBV		99
96) p-DICHLOROBENZENE	18.58	146	254946	8.48	PPBV		99
97) SEC-BUTYLBENZENE	18.62	134	121439	8.41	PPBV		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W51046.D Vial: 3
Acq On : 23 Apr 2015 11:57 am Operator: mikel1
Sample : BS Inst : MSW
Misc : MS83902,VW2039,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:09:39 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	p-ISOPROPYLTOLUENE	18.79	134	122527	8.31	PPBV	96
99)	o-DICHLOROBENZENE	18.97	146	228481	8.27	PPBV	99
100)	n-BUTYLBENZENE	19.26	134	100306	8.17	PPBV	92
101)	HEXACHLOROETHANE	19.72	201	173075	8.72	PPBV	100
102)	HEXACHLOROBUTADIENE	21.36	225	159094	7.81	PPBV	99
103)	1,2,4-TRICHLOROBENZENE	21.28	180	85578	7.41	PPBV	98
104)	NAPHTHALENE	21.00	128	176193	7.55	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

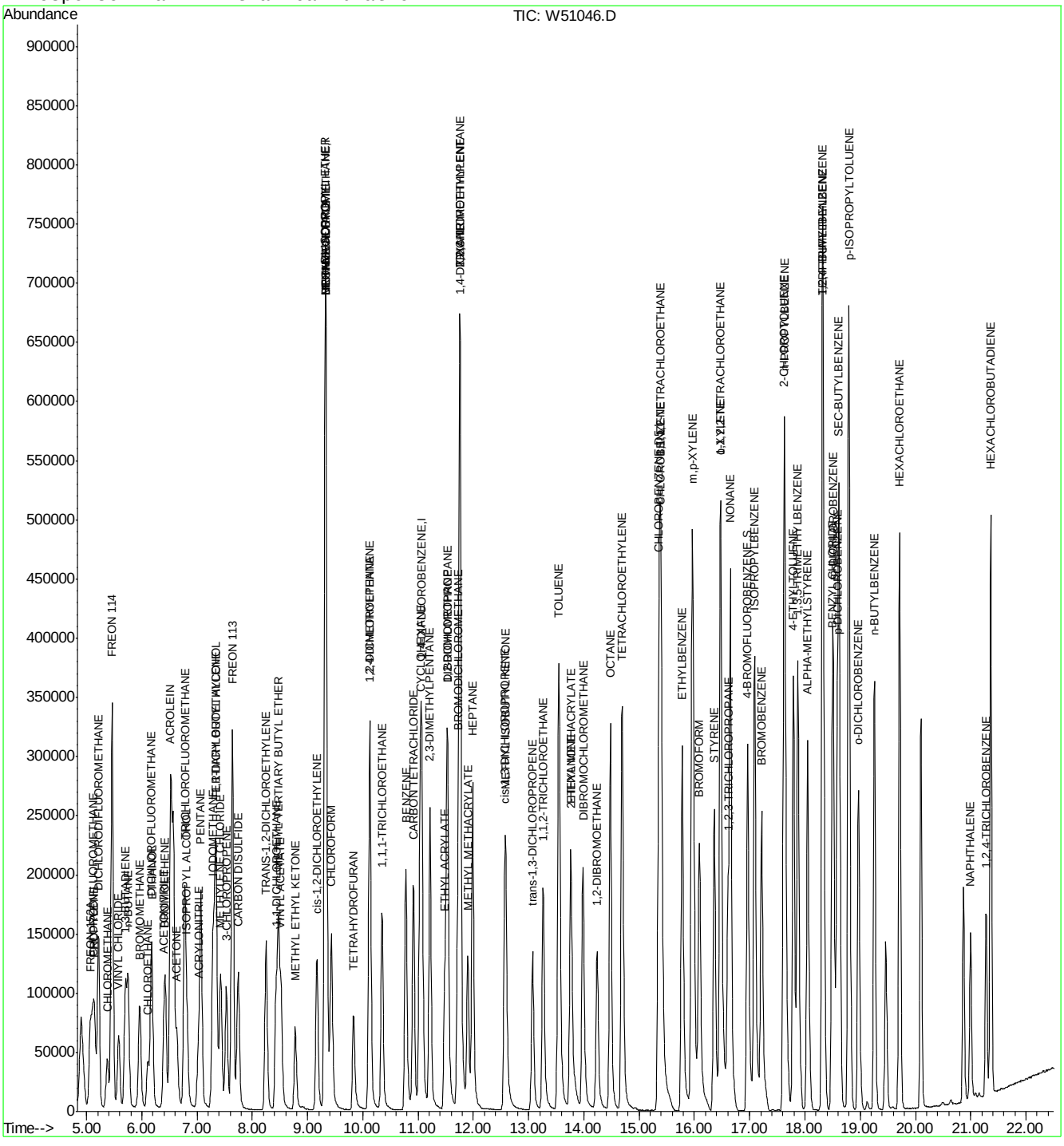
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W51046.D
Acq On : 23 Apr 2015 11:57 am
Sample : BS
Misc : MS83902,VW2039,,,,,1
MS Integration Params: rteint.p
Quant Time: Apr 24 11:32 2015

Vial: 3
Operator: mikel1
Inst : MSW
Multiplr: 1.00

Quant Results File: MW2031.RES

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W51047.D Vial: 3
Acq On : 23 Apr 2015 12:37 pm Operator: mikel1
Sample : BSD Inst : MSW
Misc : MS83902,VW2039,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:09:42 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	9.33	128	96103	10.00	PPBV	-0.01
49) 1,4-DIFLUOROBENZENE	11.07	114	401314	10.00	PPBV	-0.01
67) CHLOROBENZENE-D5	15.35	82	172752	10.00	PPBV	-0.01

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	16.96	95	201023	10.11	PPBV	-0.01

Spiked Amount 10.000 Range 65 - 128 Recovery = 101.10%

Target Compounds						Qvalue
3) FREON 152A	5.07	65	63526	10.44	PPBV	90
4) CHLORODIFLUOROMETHANE	5.11	67	20460	7.61	PPBV	99
5) DICHLORODIFLUOROMETHANE	5.22	85	248816	8.12	PPBV	99
6) PROPYLENE	5.15	41	72350	8.58	PPBV	94
7) FREON 114	5.46	85	289316	9.35	PPBV	98
9) CHLOROMETHANE	5.38	52	30326	10.31	PPBV	97
10) VINYL CHLORIDE	5.58	62	123062	10.40	PPBV	99
11) 1,3-BUTADIENE	5.71	54	92826	9.89	PPBV	94
12) n-BUTANE	5.75	58	25643	10.52	PPBV	92
13) BROMOMETHANE	5.96	94	113074	10.05	PPBV	98
14) CHLOROETHANE	6.11	64	66148	9.91	PPBV	91
15) DICHLOROFLUOROMETHANE	6.18	67	223107	8.39	PPBV	99
16) ACROLEIN	6.52	56	41298	7.97	PPBV	99
17) TRICHLOROFLUOROMETHANE	6.78	101	258237	8.52	PPBV	100
18) ISOPROPYL ALCOHOL	6.82	45	145963	7.68	PPBV	96
19) ACETONE	6.63	58	47495	8.05	PPBV #	86
21) ACRYLONITRILE	7.02	53	79205	8.24	PPBV	98
22) PENTANE	7.07	57	32679	8.48	PPBV	95
23) IODOMETHANE	7.29	142	295073	8.97	PPBV	93
24) 1,1-DICHLOROETHYLENE	7.33	96	109392	8.93	PPBV	94
25) CARBON DISULFIDE	7.74	76	310149	9.77	PPBV	95
26) ETHANOL	6.19	45	38136	8.02	PPBV	98
27) ACETONITRILE	6.40	41	73152	7.88	PPBV	98
28) BROMOETHENE	6.43	106	119118	10.29	PPBV #	99
29) METHYLENE CHLORIDE	7.43	84	96341	9.59	PPBV	99
30) 3-CHLOROPROPENE	7.54	76	50786	9.86	PPBV #	87
31) FREON 113	7.64	151	186244	8.41	PPBV	96
32) TRANS-1,2-DICHLOROETHYLENE	8.25	96	108065	8.23	PPBV	99
33) TERTIARY BUTYL ALCOHOL	7.35	59	170924	7.81	PPBV	98
34) METHYL TERTIARY BUTYL ETHE	8.47	73	239015	7.12	PPBV	98
35) TETRAHYDROFURAN	9.83	72	43496	8.79	PPBV	96
36) HEXANE	9.33	57	210402	12.07	PPBV #	85
37) VINYL ACETATE	8.52	86	26549	8.95	PPBV #	87
38) 1,1-DICHLOROETHANE	8.43	63	165830	9.03	PPBV	99
39) METHYL ETHYL KETONE	8.78	72	42756	7.71	PPBV #	90
40) cis-1,2-DICHLOROETHYLENE	9.17	96	108065	7.95	PPBV	99
41) DI-ISOPROPYL ETHER	9.32	87	81737	7.85	PPBV	95
42) ETHYL ACETATE	9.33	61	29660	8.76	PPBV #	85
43) METHYL ACRYLATE	9.33	55	167811	8.33	PPBV	98
44) CHLOROFORM	9.43	83	183844	7.80	PPBV	99
45) 2,4-DIMETHYLPENTANE	10.13	57	177975	9.29	PPBV	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W51047.D Vial: 3
Acq On : 23 Apr 2015 12:37 pm Operator: mikel1
Sample : BSD Inst : MSW
Misc : MS83902,VW2039,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:09:42 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46) 1,1,1-TRICHLOROETHANE	10.35	97	174053	7.08	PPBV		100
47) CARBON TETRACHLORIDE	10.92	117	193229	6.96	PPBV		99
48) 1,2-DICHLOROETHANE	10.11	62	102800	7.28	PPBV		98
50) BENZENE	10.78	78	320188	9.07	PPBV		99
51) CYCLOHEXANE	11.03	84	149191	8.76	PPBV		96
52) 2,3-DIMETHYLPENTANE	11.22	71	71680	9.53	PPBV		100
53) TRICHLOROETHYLENE	11.75	95	136965	8.73	PPBV		99
54) DIBROMOMETHANE	11.52	174	147734	8.03	PPBV		99
55) 1,2-DICHLOROPROPANE	11.53	63	110303	9.80	PPBV		91
56) ETHYL ACRYLATE	11.48	55	170656	7.79	PPBV		98
57) BROMODICHLOROMETHANE	11.72	83	201682	8.09	PPBV		100
58) 2,2,4-TRIMETHYLPENTANE	11.76	57	496325	9.38	PPBV		99
59) 1,4-DIOXANE	11.77	88	60659	7.78	PPBV		91
60) METHYL METHACRYLATE	11.90	69	96865	8.29	PPBV		92
61) HEPTANE	11.99	43	163498	8.78	PPBV		98
62) METHYL ISOBUTYL KETONE	12.59	43	155559	7.68	PPBV		97
63) cis-1,3-DICHLOROPROPENE	12.57	75	171747	8.86	PPBV		89
64) TOLUENE	13.54	92	228292	8.78	PPBV		98
65) trans-1,3-DICHLOROPROPENE	13.07	75	141575	8.02	PPBV		93
66) 1,1,2-TRICHLOROETHANE	13.26	83	99518	9.24	PPBV		98
68) ETHYL METHACRYLATE	13.75	69	143672	8.34	PPBV		97
69) 2-HEXANONE	13.77	58	92951	9.11	PPBV		93
70) TETRACHLOROETHYLENE	14.69	164	171320	8.71	PPBV		97
71) DIBROMOCHLOROMETHANE	13.99	129	221897	8.67	PPBV		100
72) 1,2-DIBROMOETHANE	14.24	107	181953	8.89	PPBV		100
73) OCTANE	14.48	43	225610	9.57	PPBV		98
74) 1,1,1,2-TETRACHLOROETHANE	15.38	131	160779	8.55	PPBV		85
75) CHLOROBENZENE	15.40	112	309912	9.02	PPBV		99
76) ETHYLBENZENE	15.78	91	446670	8.84	PPBV		100
77) m,p-XYLENE	15.97	106	380101	17.85	PPBV		97
78) o-XYLENE	16.47	106	177020	9.10	PPBV		98
79) STYRENE	16.36	104	283552	9.06	PPBV		99
80) 1,2,3-TRICHLOROPROPANE	16.61	75	166757	8.25	PPBV		96
81) NONANE	16.65	43	234159	9.81	PPBV		99
82) BROMOFORM	16.09	173	225576	8.61	PPBV		100
84) 1,1,2,2-TETRACHLOROETHANE	16.47	83	242236	9.07	PPBV		99
85) ISOPROPYLBENZENE	17.09	105	514044	8.52	PPBV		100
86) BROMOBENZENE	17.22	156	167970	8.45	PPBV		97
87) 2-CHLOROTOLUENE	17.62	126	126699	8.82	PPBV	#	91
88) n-PROPYLBENZENE	17.64	120	141495	8.86	PPBV		95
89) 4-ETHYLTOLUENE	17.79	105	434957	8.35	PPBV		100
90) 1,3,5-TRIMETHYLBENZENE	17.87	105	412714	8.26	PPBV		99
91) ALPHA-METHYLSTYRENE	18.05	118	193367	8.75	PPBV		99
92) TERT-BUTYLBENZENE	18.32	134	101601	8.44	PPBV		96
93) 1,2,4-TRIMETHYLBENZENE	18.33	105	377892	8.19	PPBV		99
94) m-DICHLOROBENZENE	18.51	146	246556	8.33	PPBV		99
95) BENZYL CHLORIDE	18.49	91	256378	8.22	PPBV		99
96) p-DICHLOROBENZENE	18.59	146	252202	8.31	PPBV		99
97) SEC-BUTYLBENZENE	18.62	134	121599	8.34	PPBV		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W51047.D Vial: 3
Acq On : 23 Apr 2015 12:37 pm Operator: mikel1
Sample : BSD Inst : MSW
Misc : MS83902,VW2039,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:09:42 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

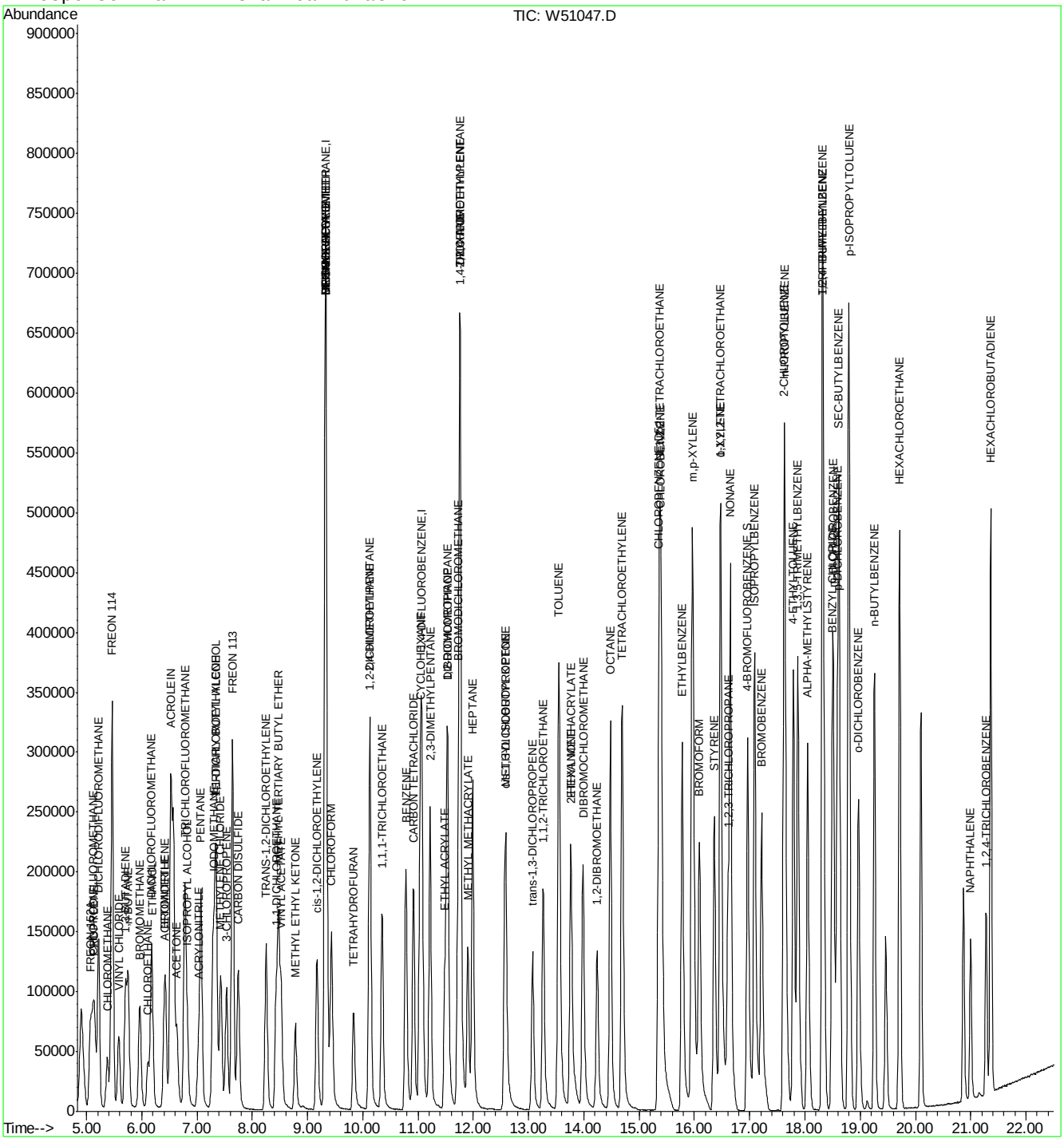
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	p-ISOPROPYLTOLUENE	18.79	134	123528	8.30	PPBV	97
99)	o-DICHLOROBENZENE	18.97	146	224312	8.04	PPBV	99
100)	n-BUTYLBENZENE	19.26	134	101670	8.20	PPBV	93
101)	HEXACHLOROETHANE	19.72	201	170402	8.50	PPBV	100
102)	HEXACHLOROBUTADIENE	21.36	225	158098	7.69	PPBV	99
103)	1,2,4-TRICHLOROBENZENE	21.28	180	86114	7.39	PPBV	99
104)	NAPHTHALENE	21.00	128	175420	7.45	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W51047.D Vial: 3
Acq On : 23 Apr 2015 12:37 pm Operator: mikel1
Sample : BSD Inst : MSW
Misc : MS83902,VW2039,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:32 2015 Quant Results File: MW2031.RES

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W47224.D Vial: 3
Acq On : 27 Apr 2015 11:49 am Operator: YOUMINH
Sample : BS Inst : MS3W
Misc : MS84235,V3W1792,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 28 09:36:34 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.16	128	113403	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	8.74	114	500772	10.00	PPBV	0.00
71) CHLOROBENZENE-D5	12.88	82	235956	10.00	PPBV	0.00
System Monitoring Compounds						
86) 4-BROMOFLUOROBENZENE	14.52	95	271290	10.27	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 102.70%			
Target Compounds						Qvalue
4) FREON 152A	4.23	65	90991	9.08	PPBV	100
5) CHLORODIFLUOROMETHANE	4.26	67	35170	9.09	PPBV	100
6) DICHLORODIFLUOROMETHANE	4.31	85	352150	8.87	PPBV	99
7) PROPYLENE	4.27	41	117876	9.06	PPBV	99
9) FREON 114	4.44	85	366003	8.93	PPBV	98
10) CHLOROMETHANE	4.41	50	160229	8.80	PPBV	98
11) VINYL CHLORIDE	4.52	62	156749	9.05	PPBV	99
12) 1,3-BUTADIENE	4.58	54	118818	9.63	PPBV	99
13) n-BUTANE	4.60	43	234774	9.39	PPBV	100
14) BROMOMETHANE	4.74	94	140835	9.33	PPBV	100
15) CHLOROETHANE	4.82	64	81342	9.14	PPBV	98
16) DICHLOROFLUOROMETHANE	4.86	67	317859	9.12	PPBV	100
17) ACETONITRILE	5.04	41	107999	9.90	PPBV	99
18) FREON 123	5.08	83	351834	9.58	PPBV	99
19) FREON 123A	5.11	117	188978	9.59	PPBV	97
20) TRICHLOROFLUOROMETHANE	5.23	101	351163	9.40	PPBV	99
22) ISOPROPYL ALCOHOL	5.29	45	277372	10.79	PPBV	99
23) ACETONE	5.15	58	65047	9.15	PPBV	99
24) PENTANE	5.40	42	164786	9.20	PPBV	100
25) TVHC as EQUIV PENTANE	5.41	TIC	895044m	9.91	PPBV	
26) IODOMETHANE	5.57	142	376158	9.95	PPBV	99
27) 1,1-DICHLOROETHYLENE	5.61	96	139107	9.70	PPBV	99
28) CARBON DISULFIDE	5.87	76	417000	9.56	PPBV	98
29) ETHANOL	4.91	45	60757	10.19	PPBV	99
30) BROMOETHENE	5.01	106	143016	9.78	PPBV	99
31) ACRYLONITRILE	5.43	52	84701	10.63	PPBV	93
32) METHYLENE CHLORIDE	5.69	84	124086	9.65	PPBV	98
33) 3-CHLOROPROPENE	5.75	76	66891	9.87	PPBV	98
34) FREON 113	5.82	151	226741	10.24	PPBV	98
35) TRANS-1,2-DICHLOROETHYLENE	6.26	96	138795	9.72	PPBV	99
36) TERTIARY BUTYL ALCOHOL	5.63	59	347559	11.09	PPBV	99
37) METHYL TERTIARY BUTYL ETHE	6.42	73	380040	9.91	PPBV	100
38) TETRAHYDROFURAN	7.55	72	63983	9.82	PPBV	100
39) HEXANE	7.09	57	219750	9.39	PPBV	100
40) VINYL ACETATE	6.51	86	27676	10.16	PPBV	97
41) 1,1-DICHLOROETHANE	6.41	63	260893	9.22	PPBV	99
42) METHYL ETHYL KETONE	6.68	72	62345	9.83	PPBV	100
43) cis-1,2-DICHLOROETHYLENE	7.05	96	141177	9.75	PPBV	99
44) DIISOPROPYL ETHER	7.11	59	51655	9.56	PPBV #	85
45) ETHYL ACETATE	7.17	61	50010	9.59	PPBV	98
46) METHYL ACRYLATE	7.19	55	216608	10.10	PPBV	98
47) CHLOROFORM	7.25	83	280012	9.28	PPBV	99
48) 2,4-DIMETHYLPENTANE	7.78	57	263505	9.39	PPBV	100
49) 1,1,1-TRICHLOROETHANE	8.03	97	268192	9.24	PPBV	100
50) CARBON TETRACHLORIDE	8.55	117	281101	9.16	PPBV	100
51) 1,2-DICHLOROETHANE	7.83	62	162658	9.60	PPBV	100
53) BENZENE	8.42	78	413095	9.40	PPBV	100
54) CYCLOHEXANE	8.59	84	224744	9.15	PPBV	99
55) 2,3-DIMETHYLPENTANE	8.78	71	95738	8.94	PPBV	100

(#) = qualifier out of range (m) = manual integration
3W47224.D M3W1782.M Tue Apr 28 10:44:22 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W47224.D Vial: 3
Acq On : 27 Apr 2015 11:49 am Operator: YOUMINH
Sample : BS Inst : MS3W
Misc : MS84235,V3W1792,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 28 09:36:34 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

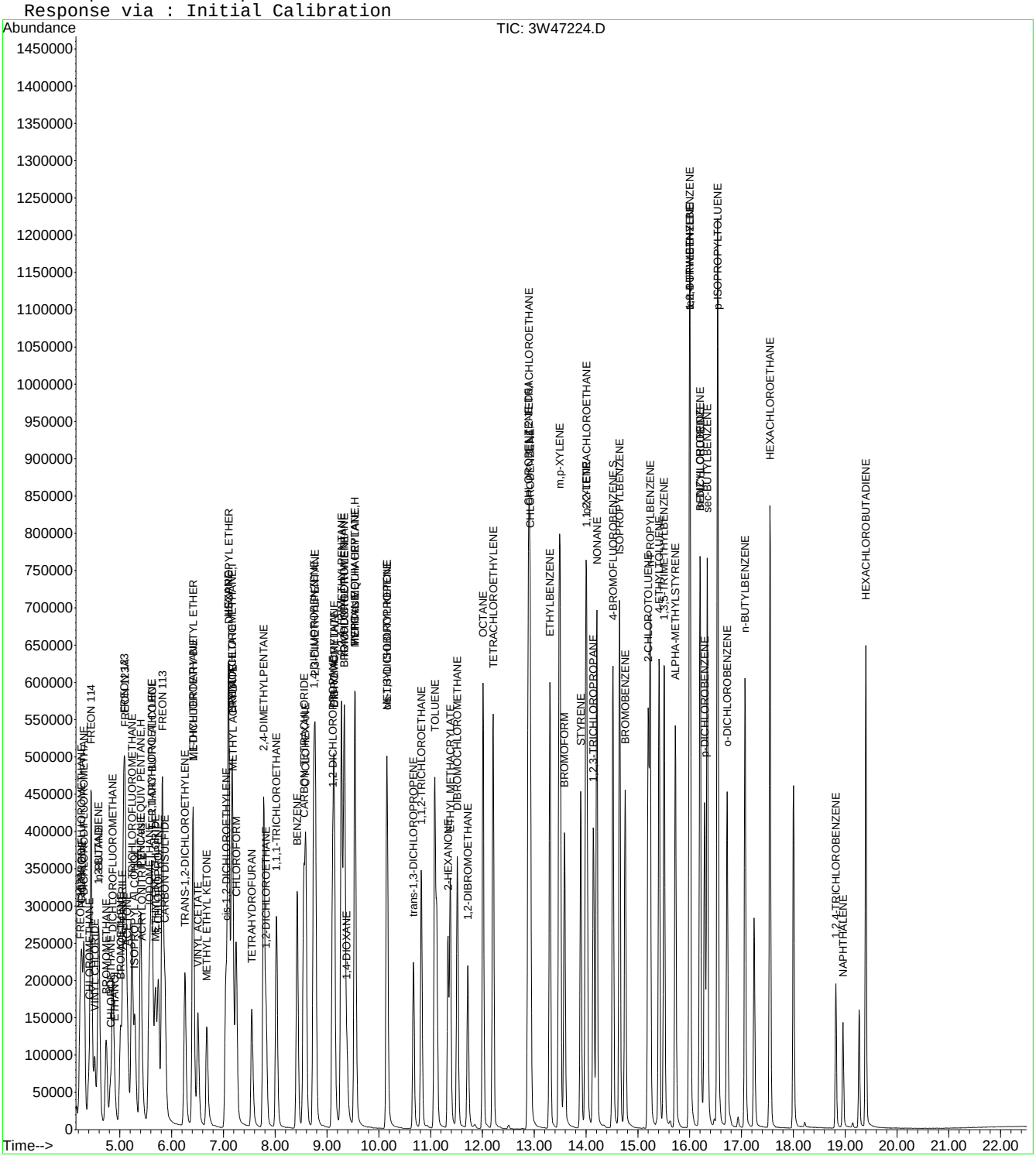
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
56)	TRICHLOROETHYLENE	9.34	95	171453	8.93	PPBV	97
57)	1,2-DICHLOROPROPANE	9.10	63	156938	8.88	PPBV	99
58)	DIBROMOMETHANE	9.13	174	160610	9.92	PPBV	97
59)	ETHYL ACRYLATE	9.14	55	272897	9.90	PPBV	99
60)	BROMODICHLOROMETHANE	9.32	83	287004	9.43	PPBV	100
61)	2,2,4-TRIMETHYLPENTANE	9.28	57	676097	9.23	PPBV	100
62)	1,4-DIOXANE	9.38	88	92694	10.78	PPBV	98
63)	HEPTANE	9.54	43	251390	9.33	PPBV	100
64)	TVHC as EQUIV HEPTANE	9.54	TIC	1640639m	9.70	PPBV	
65)	METHYL METHACRYLATE	9.55	69	137098	9.68	PPBV	98
66)	METHYL ISOBUTYL KETONE	10.15	58	117017	9.48	PPBV	99
67)	cis-1,3-DICHLOROPROPENE	10.16	75	213268	9.80	PPBV	99
68)	TOLUENE	11.08	92	268674	9.09	PPBV	99
69)	trans-1,3-DICHLOROPROPENE	10.67	75	174445	9.88	PPBV	99
70)	1,1,2-TRICHLOROETHANE	10.82	83	135610	9.62	PPBV	100
72)	2-HEXANONE	11.34	58	148113	10.08	PPBV	99
73)	ETHYL METHACRYLATE	11.38	69	219478	10.21	PPBV	88
74)	TETRACHLOROETHYLENE	12.21	164	177181	9.41	PPBV	98
75)	DIBROMOCHLOROMETHANE	11.51	129	271242	9.98	PPBV	100
76)	1,2-DIBROMOETHANE	11.72	107	214236	10.01	PPBV	99
77)	OCTANE	12.01	43	332864	10.51	PPBV	99
78)	1,1,1,2-TETRACHLOROETHANE	12.91	131	201914	10.22	PPBV	98
79)	CHLOROBENZENE	12.92	112	327638	9.78	PPBV	99
80)	ETHYLBENZENE	13.30	91	565500	10.08	PPBV	100
81)	m,p-XYLENE	13.49	106	427750	20.30	PPBV	98
82)	o-XYLENE	14.00	106	209651	10.36	PPBV	98
83)	STYRENE	13.90	104	293756	10.76	PPBV	99
84)	NONANE	14.21	43	320634	10.97	PPBV	99
85)	BROMOFORM	13.58	173	263964	10.56	PPBV	100
87)	1,1,2,2-TETRACHLOROETHANE	14.01	83	319591	10.09	PPBV	100
88)	1,2,3-TRICHLOROPROPANE	14.14	75	234547	9.95	PPBV	100
89)	ISOPROPYLBENZENE	14.65	105	619675	10.28	PPBV	100
90)	BROMOBENZENE	14.76	77	266842	9.52	PPBV	98
91)	2-CHLOROTOLUENE	15.20	126	146556	10.43	PPBV	100
92)	n-PROPYLBENZENE	15.24	120	155843	10.22	PPBV	100
93)	4-ETHYLTOLUENE	15.41	105	543678	10.88	PPBV	100
94)	1,3,5-TRIMETHYLBENZENE	15.51	105	469733	10.19	PPBV	100
95)	ALPHA-METHYLSTYRENE	15.72	118	218651	10.40	PPBV	99
96)	tert-BUTYLBENZENE	16.00	134	108818	10.61	PPBV	100
97)	1,2,4-TRIMETHYLBENZENE	16.01	105	453401	10.69	PPBV	98
98)	m-DICHLOROBENZENE	16.20	146	265200	10.27	PPBV	99
99)	BENZYL CHLORIDE	16.20	91	323280	9.58	PPBV	99
100)	p-DICHLOROBENZENE	16.29	146	252892	9.66	PPBV	99
101)	sec-BUTYLBENZENE	16.34	134	127580	10.09	PPBV	99
102)	p-ISOPROPYLTOLUENE	16.54	134	136013	10.50	PPBV	99
103)	o-DICHLOROBENZENE	16.72	146	256091	10.00	PPBV	99
104)	n-BUTYLBENZENE	17.07	134	109040	10.14	PPBV	98
105)	HEXACHLOROETHANE	17.55	117	206904	9.66	PPBV	98
106)	HEXACHLOROBUTADIENE	19.40	225	151726	10.38	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.82	180	80859	9.00	PPBV	99
108)	NAPHTHALENE	18.96	128	143226	7.92	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W47224.D M3W1782.M Tue Apr 28 10:44:22 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W47224.D
Vial: 3
Acq On : 27 Apr 2015 11:49 am
Operator: YOUMINH
Sample : BS
Inst : MS3W
Misc : MS84235,V3W1792,,,,,1
Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 28 9:52 2015
Quant Results File: M3W1782.RES

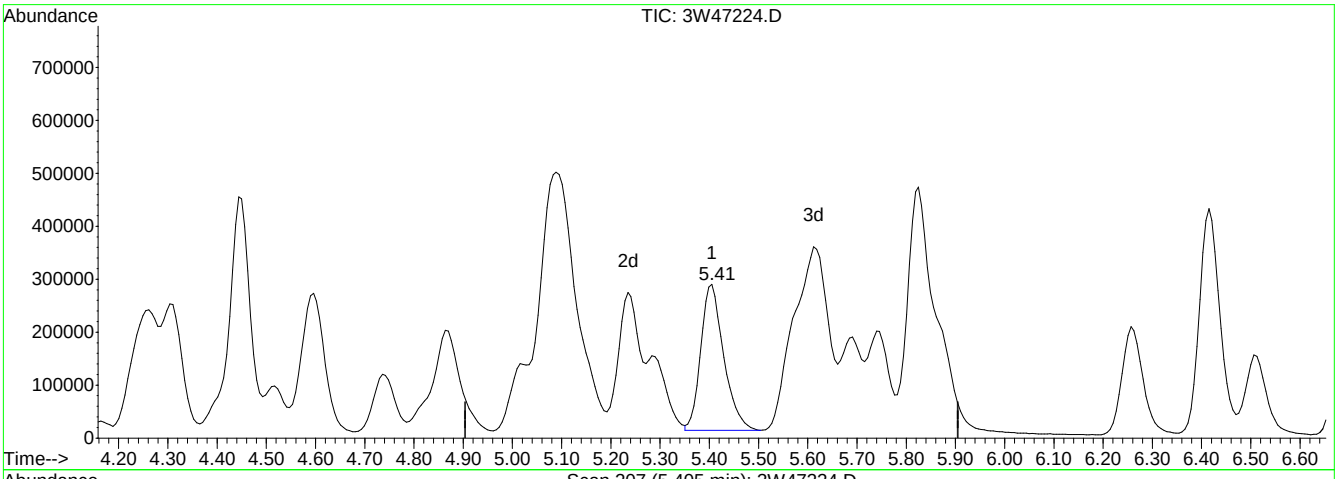
Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Initial Calibration

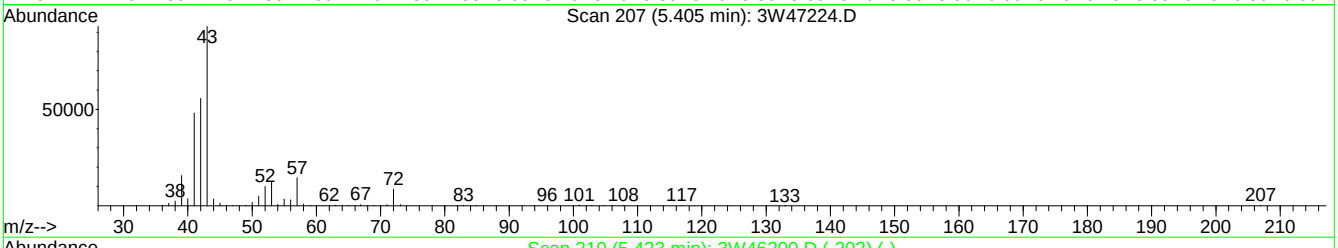


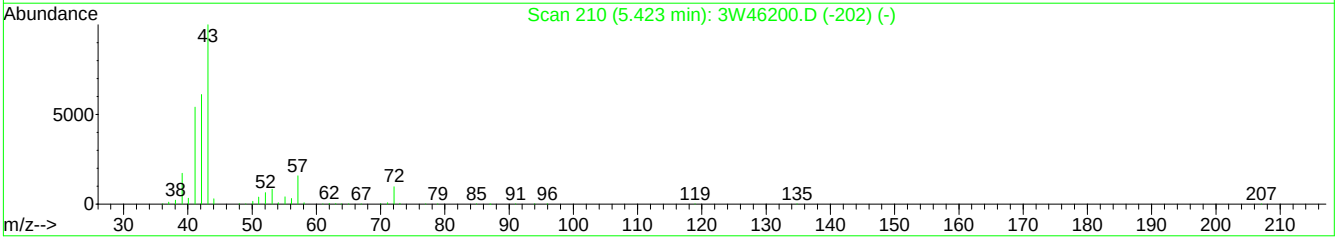
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W47224.D Vial: 3
Acq On : 27 Apr 2015 11:49 am Operator: YOUMINH
Sample : BS Inst : MS3W
Misc : MS84235,V3W1792,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 28 9:52 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Multiple Level Calibration







TIC: 3W47224.D

(25) TVHC as EQUIV PENTANE (H)

5.41min 9.91PPBV m

response 895044

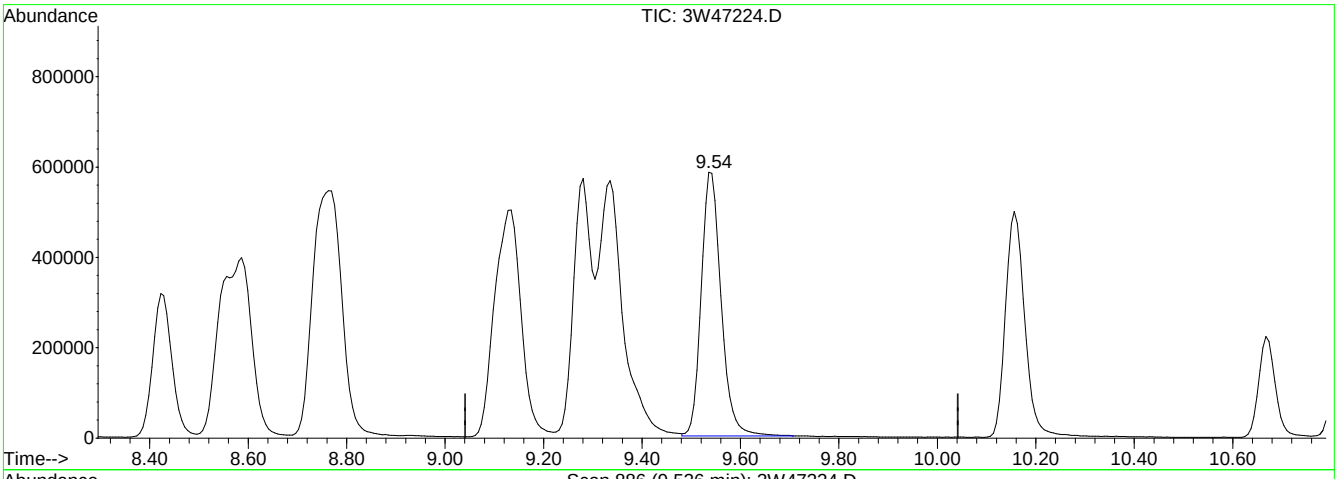
Signal	Exp%	Act%
TIC	100	100
0.00	2.50	1.94#
0.00	2.20	1.63#
0.00	0.00	0.00

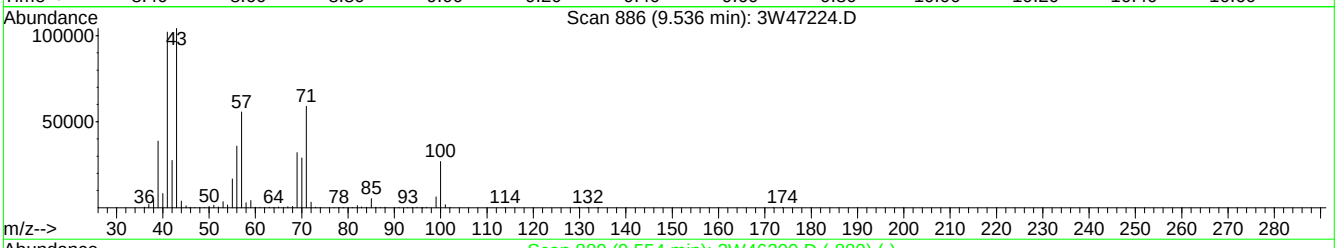
3W47224.D M3W1782.M Tue Apr 28 10:34:49 2015 MS3W

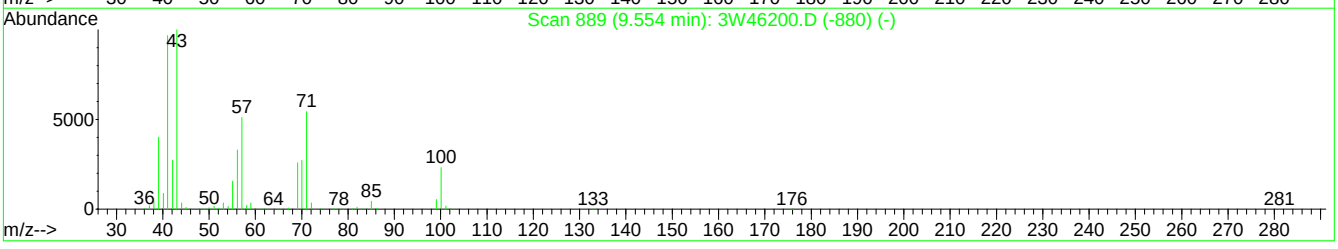
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W47224.D Vial: 3
Acq On : 27 Apr 2015 11:49 am Operator: YOUMINH
Sample : BS Inst : MS3W
Misc : MS84235,V3W1792,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 28 9:52 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Multiple Level Calibration







TIC: 3W47224.D

(64) TVHC as EQUIV HEPTANE (H)

9.54min 9.70PPBV m

response 1640639

Signal	Exp%	Act%
TIC	100	100
0.00	1.30	1.06#
0.00	1.20	0.89#
0.00	0.00	0.00

3W47224.D M3W1782.M Tue Apr 28 10:48:52 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W47225.D Vial: 3
Acq On : 27 Apr 2015 12:41 pm Operator: YOUMINH
Sample : BSD Inst : MS3W
Misc : MS84235,V3W1792,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 28 09:36:36 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.16	128	120025	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	8.74	114	525477	10.00	PPBV	0.00
71) CHLOROBENZENE-D5	12.88	82	246231	10.00	PPBV	0.00

System Monitoring Compounds

86) 4-BROMOFLUOROBENZENE	14.52	95	288597	10.47	PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 104.70%

Target Compounds						Qvalue
4) FREON 152A	4.23	65	95197	8.98	PPBV	99
5) CHLORODIFLUOROMETHANE	4.26	67	36245	8.85	PPBV	95
6) DICHLORODIFLUOROMETHANE	4.31	85	360790	8.58	PPBV	100
7) PROPYLENE	4.27	41	120702	8.76	PPBV	98
9) FREON 114	4.44	85	380230	8.77	PPBV	98
10) CHLOROMETHANE	4.41	50	165588	8.59	PPBV	98
11) VINYL CHLORIDE	4.52	62	164651	8.98	PPBV	100
12) 1,3-BUTADIENE	4.58	54	122105	9.35	PPBV	99
13) n-BUTANE	4.60	43	239097	9.03	PPBV	100
14) BROMOMETHANE	4.74	94	145109	9.08	PPBV	99
15) CHLOROETHANE	4.82	64	84885	9.01	PPBV	99
16) DICHLOROFLUOROMETHANE	4.86	67	328312	8.90	PPBV	100
17) ACETONITRILE	5.04	41	106370	9.21	PPBV	99
18) FREON 123	5.08	83	353238	9.09	PPBV	100
19) FREON 123A	5.11	117	191219	9.17	PPBV	97
20) TRICHLOROFLUOROMETHANE	5.23	101	361984	9.16	PPBV	99
22) ISOPROPYL ALCOHOL	5.29	45	271922	10.00	PPBV	99
23) ACETONE	5.15	58	64999	8.64	PPBV	99
24) PENTANE	5.40	42	169679	8.95	PPBV	100
25) TVHC as EQUIV PENTANE	5.40	TIC	917936m	9.60	PPBV	
26) IODOMETHANE	5.57	142	388131	9.70	PPBV	98
27) 1,1-DICHLOROETHYLENE	5.61	96	144211	9.50	PPBV	100
28) CARBON DISULFIDE	5.87	76	429443	9.30	PPBV	96
29) ETHANOL	4.91	45	60214	9.54	PPBV	98
30) BROMOETHENE	5.02	106	145131	9.38	PPBV	99
31) ACRYLONITRILE	5.43	52	84126	9.98	PPBV	99
32) METHYLENE CHLORIDE	5.68	84	125937	9.26	PPBV	100
33) 3-CHLOROPROPENE	5.75	76	68047	9.49	PPBV	99
34) FREON 113	5.82	151	233592	9.97	PPBV	99
35) TRANS-1,2-DICHLOROETHYLENE	6.26	96	141689	9.37	PPBV	99
36) TERTIARY BUTYL ALCOHOL	5.63	59	341823	10.31	PPBV	98
37) METHYL TERTIARY BUTYL ETHE	6.41	73	379968	9.36	PPBV	100
38) TETRAHYDROFURAN	7.55	72	64220	9.32	PPBV	99
39) HEXANE	7.09	57	225410	9.10	PPBV	100
40) VINYL ACETATE	6.51	86	29104	10.09	PPBV #	93
41) 1,1-DICHLOROETHANE	6.41	63	266484	8.90	PPBV	100
42) METHYL ETHYL KETONE	6.68	72	63820	9.51	PPBV #	91
43) cis-1,2-DICHLOROETHYLENE	7.05	96	142179	9.28	PPBV	100
44) DIISOPROPYL ETHER	7.11	59	55046	9.63	PPBV	99
45) ETHYL ACETATE	7.17	61	49596	8.99	PPBV	100
46) METHYL ACRYLATE	7.18	55	215091	9.48	PPBV	98
47) CHLOROFORM	7.24	83	277579	8.69	PPBV	100
48) 2,4-DIMETHYLPENTANE	7.78	57	269476	9.07	PPBV	100
49) 1,1,1-TRICHLOROETHANE	8.02	97	271727	8.84	PPBV	100
50) CARBON TETRACHLORIDE	8.55	117	286743	8.83	PPBV	99
51) 1,2-DICHLOROETHANE	7.83	62	163028	9.09	PPBV	99
53) BENZENE	8.42	78	412678	8.95	PPBV	100
54) CYCLOHEXANE	8.59	84	233554	9.06	PPBV	99
55) 2,3-DIMETHYLPENTANE	8.78	71	96717	8.61	PPBV	100

(#) = qualifier out of range (m) = manual integration
3W47225.D M3W1782.M Tue Apr 28 10:44:32 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W47225.D Vial: 3
Acq On : 27 Apr 2015 12:41 pm Operator: YOUMINH
Sample : BSD Inst : MS3W
Misc : MS84235,V3W1792,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 28 09:36:36 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

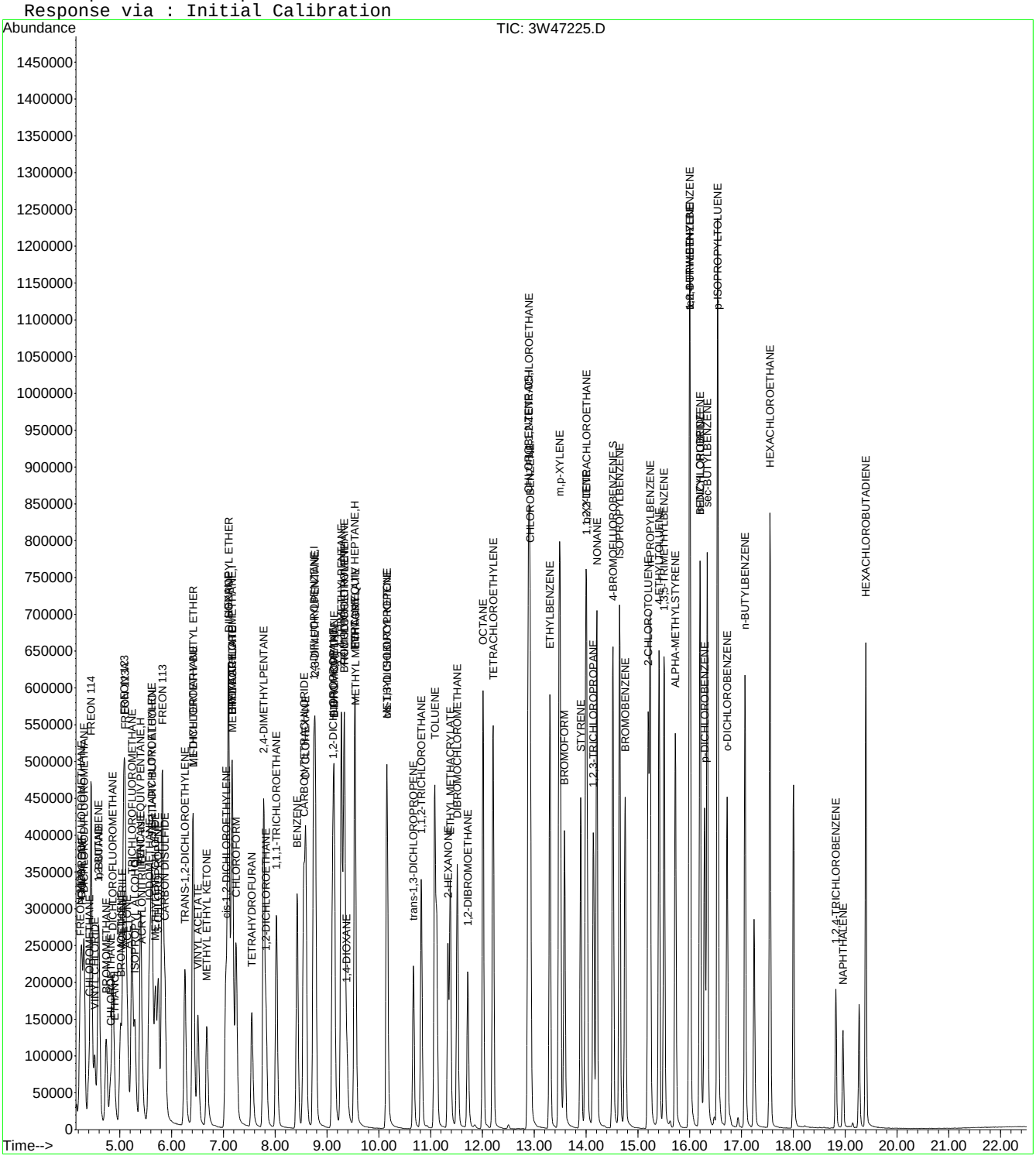
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
56)	TRICHLOROETHYLENE	9.34	95	174494	8.66	PPBV	98
57)	1,2-DICHLOROPROPANE	9.11	63	154972	8.36	PPBV	99
58)	DIBROMOMETHANE	9.13	174	160846	9.47	PPBV	97
59)	ETHYL ACRYLATE	9.14	55	274156	9.48	PPBV	100
60)	BROMODICHLOROMETHANE	9.32	83	286802	8.98	PPBV	99
61)	2,2,4-TRIMETHYLPENTANE	9.27	57	680323	8.85	PPBV	100
62)	1,4-DIOXANE	9.38	88	89469	9.91	PPBV	99
63)	HEPTANE	9.53	43	253486	8.97	PPBV	100
64)	TVHC as EQUIV HEPTANE	9.54	TIC	1660222m	9.36	PPBV	
65)	METHYL METHACRYLATE	9.55	69	136499	9.19	PPBV	99
66)	METHYL ISOBUTYL KETONE	10.15	58	115860	8.95	PPBV	100
67)	cis-1,3-DICHLOROPROPENE	10.16	75	210406	9.21	PPBV	99
68)	TOLUENE	11.08	92	264838	8.54	PPBV	99
69)	trans-1,3-DICHLOROPROPENE	10.67	75	173732	9.37	PPBV	99
70)	1,1,2-TRICHLOROETHANE	10.82	83	133890	9.05	PPBV	99
72)	2-HEXANONE	11.34	58	145204	9.47	PPBV	98
73)	ETHYL METHACRYLATE	11.38	69	217896	9.71	PPBV	88
74)	TETRACHLOROETHYLENE	12.21	164	176795	9.00	PPBV	98
75)	DIBROMOCHLOROMETHANE	11.51	129	267430	9.43	PPBV	100
76)	1,2-DIBROMOETHANE	11.71	107	209634	9.38	PPBV	99
77)	OCTANE	12.01	43	330860	10.01	PPBV	99
78)	1,1,1,2-TETRACHLOROETHANE	12.91	131	199774	9.69	PPBV	98
79)	CHLOROBENZENE	12.92	112	323624	9.26	PPBV	99
80)	ETHYLBENZENE	13.30	91	561000	9.58	PPBV	100
81)	m,p-XYLENE	13.49	106	426806	19.41	PPBV	99
82)	o-XYLENE	13.99	106	205075	9.71	PPBV	99
83)	STYRENE	13.90	104	293302	10.29	PPBV	99
84)	NONANE	14.21	43	319276	10.47	PPBV	99
85)	BROMOFORM	13.58	173	260843	10.00	PPBV	100
87)	1,1,2,2-TETRACHLOROETHANE	14.01	83	322141	9.74	PPBV	100
88)	1,2,3-TRICHLOROPROPANE	14.14	75	233930	9.51	PPBV	100
89)	ISOPROPYLBENZENE	14.65	105	618750	9.83	PPBV	100
90)	BROMOBENZENE	14.76	77	265370	9.08	PPBV	98
91)	2-CHLOROTOLUENE	15.20	126	146544	10.00	PPBV	99
92)	n-PROPYLBENZENE	15.24	120	157464	9.89	PPBV	100
93)	4-ETHYLTOLUENE	15.41	105	546806	10.49	PPBV	100
94)	1,3,5-TRIMETHYLBENZENE	15.50	105	475823	9.89	PPBV	100
95)	ALPHA-METHYLSTYRENE	15.72	118	219881	10.02	PPBV	100
96)	tert-BUTYLBENZENE	16.00	134	110267	10.30	PPBV	99
97)	1,2,4-TRIMETHYLBENZENE	16.01	105	453672	10.25	PPBV	97
98)	m-DICHLOROBENZENE	16.20	146	264256	9.80	PPBV	99
99)	BENZYL CHLORIDE	16.20	91	322589	9.16	PPBV	99
100)	p-DICHLOROBENZENE	16.29	146	253830	9.29	PPBV	99
101)	sec-BUTYLBENZENE	16.34	134	128918	9.77	PPBV	100
102)	p-ISOPROPYLTOLUENE	16.54	134	137412	10.17	PPBV	99
103)	o-DICHLOROBENZENE	16.72	146	254492	9.52	PPBV	99
104)	n-BUTYLBENZENE	17.07	134	109819	9.79	PPBV	99
105)	HEXACHLOROETHANE	17.55	117	207394	9.28	PPBV	99
106)	HEXACHLOROBUTADIENE	19.40	225	155329	10.18	PPBV	99
107)	1,2,4-TRICHLOROBENZENE	18.82	180	77462	8.26	PPBV	99
108)	NAPHTHALENE	18.96	128	135395	7.18	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W47225.D M3W1782.M Tue Apr 28 10:44:32 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W47225.D
Vial: 3
Acq On : 27 Apr 2015 12:41 pm
Operator: YOUMINH
Sample : BSD
Inst : MS3W
Misc : MS84235,V3W1792,,,,,1
Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 28 9:53 2015
Quant Results File: M3W1782.RES

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Initial Calibration

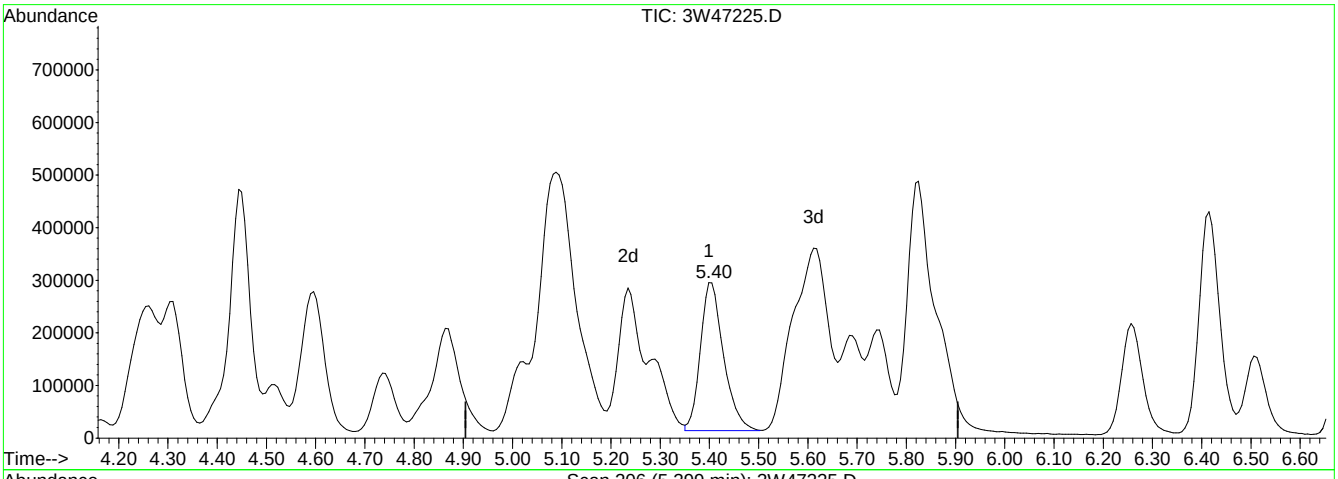


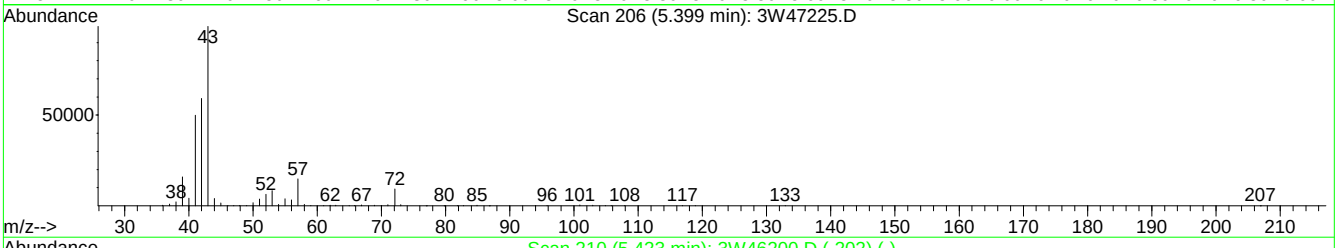
ACCUTEST LABORATORIES JB94203

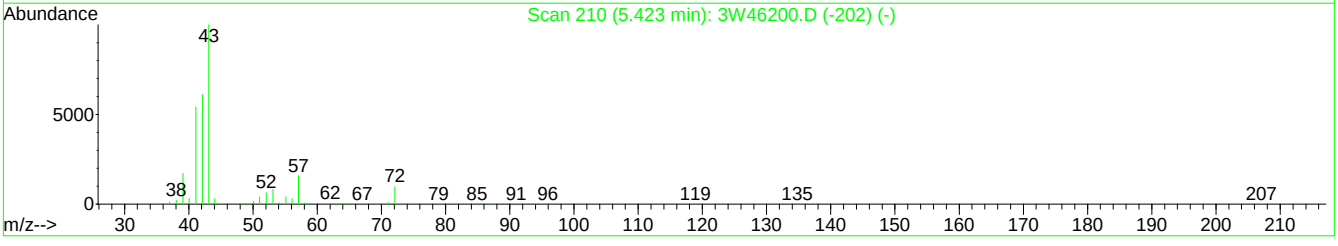
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W47225.D Vial: 3
Acq On : 27 Apr 2015 12:41 pm Operator: YOUMINH
Sample : BSD Inst : MS3W
Misc : MS84235,V3W1792,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 28 9:53 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Multiple Level Calibration







TIC: 3W47225.D

(25) TVHC as EQUIV PENTANE (H)

5.40min 9.60PPBV m

response 917936

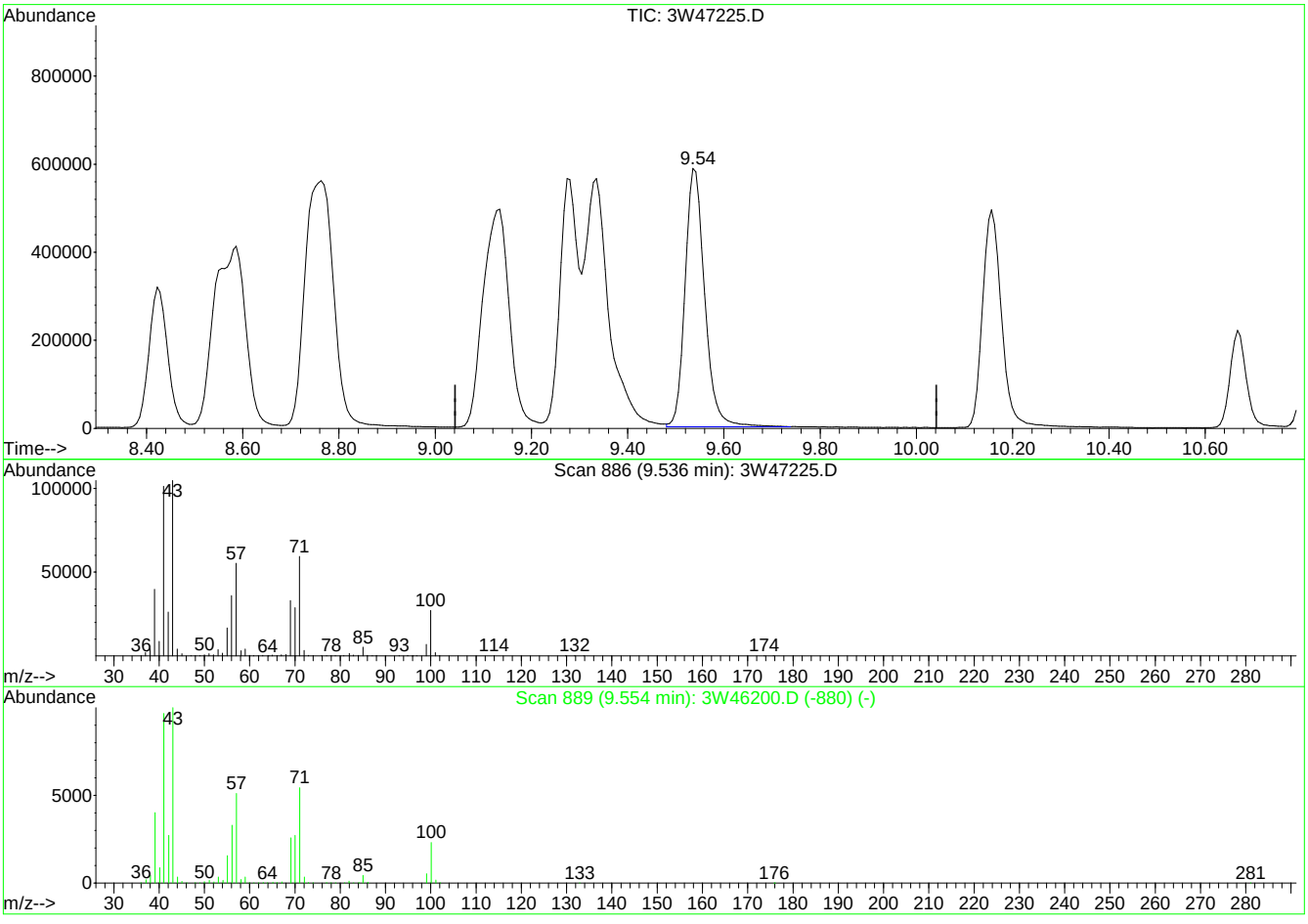
Signal	Exp%	Act%
TIC	100	100
0.00	2.50	1.80#
0.00	2.20	1.56#
0.00	0.00	0.00

3W47225.D M3W1782.M Tue Apr 28 10:34:55 2015 MS3W

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W47225.D Vial: 3
Acq On : 27 Apr 2015 12:41 pm Operator: YOUMINH
Sample : BSD Inst : MS3W
Misc : MS84235,V3W1792,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 28 9:53 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Multiple Level Calibration



TIC: 3W47225.D

(64) TVHC as EQUIV HEPTANE (H)

9.54min 9.36PPBV m

response 1660222

Signal	Exp%	Act%
TIC	100	100
0.00	1.30	1.00#
0.00	1.20	0.86#
0.00	0.00	0.00

3W47225.D M3W1782.M Tue Apr 28 10:48:45 2015 MS3W

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11438.D
Acq On : 8 May 2015 4:28 pm
Operator : mikel1
Sample : JB94203-1DUP
Misc : MS84855,v5w449,100,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 09 09:07:27 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.558	130	128711	10.00	ppb(v	-0.02
53) 1,4-Difluorobenzene	10.778	114	461636	10.00	ppb(v	-0.02
75) Chlorobenzene-d5	16.376	82	237682	10.00	ppb(v	-0.03
106) Bromochloromethane (A)	8.558	130	128711	10.00	ppb(v	-0.02
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.627	95	314330	10.14	ppb(v	-0.04
Spiked Amount 10.000	Range 65 - 128		Recovery = 101.40%			
Target Compounds						Qvalue
5) Propene	3.951	41	83314	9.00	ppb(v	97
6) Dichlorodifluoromethane	4.012	85	9804	0.30	ppb(v	99
8) Chloromethane	4.159	50	1442	0.13	ppb(v	91
10) Vinyl Chloride	4.361	62	2359	0.18	ppb(v#	94
12) n-Butane	4.526	58	20889	11.35	ppb(v#	92
14) Chloroethane	4.881	64	660	0.10	ppb(v#	73
21) Acetone	5.444	58	253377	42.01	ppb(v	79
22) Pentane	5.915	57	27451	8.89	ppb(v	96
25) Isopropyl Alcohol	5.670	45	15556	0.65	ppb(v#	88
28) Methylene Chloride	6.325	84	10202	0.85	ppb(v	96
29) Carbon Disulfide	6.612	76	76381	2.01	ppb(v	99
30) Ethanol	5.003	45	11791	1.94	ppb(v	99
34) tert-Butyl Alcohol	6.245	59	23351	0.78	ppb(v#	79
37) 1,1-Dichloroethane	7.481	63	28881	1.21	ppb(v	99
38) 2-Butanone	7.909	72	7061	1.06	ppb(v	97
39) Hexane	8.594	57	74015	3.44	ppb(v#	37
40) cis-1,2-Dichloroethene	8.374	61	9009	0.50	ppb(v	98
42) Ethyl Acetate	8.643	61	2132	0.45	ppb(v	65
44) Chloroform	8.704	83	2769	0.10	ppb(v#	89
45) 2,4-Dimethylpentane	9.598	57	3013	0.13	ppb(v	97
47) 1,1,1-Trichloroethane	9.818	97	33030	1.22	ppb(v	100
49) Benzene	10.356	78	32291	0.76	ppb(v	98
51) Cyclohexane	10.674	56	13900	0.68	ppb(v	97
52) 2,3-Dimethylpentane	10.968	71	2695	0.32	ppb(v	96
54) 2,2,4-Trimethylpentane	11.659	57	12536	0.20	ppb(v#	26
55) Heptane	11.996	71	16435	1.34	ppb(v	95
56) Trichloroethene	11.629	95	5605	0.31	ppb(v	96
66) Toluene	13.966	91	431682	8.92	ppb(v	100
71) Tetrachloroethene	15.495	166	5074	0.22	ppb(v	95
73) Octane	15.324	43	18014	0.60	ppb(v	98
77) Ethylbenzene	16.988	91	45541	0.79	ppb(v	97
78) m,p-Xylene	17.233	91	155219	3.35	ppb(v	98
79) Styrene	17.777	104	11999	0.37	ppb(v	95
80) Nonane	18.315	43	19099	0.65	ppb(v	95
81) o-Xylene	17.936	91	56630	1.26	ppb(v	96
88) n-Propylbenzene	19.594	120	2239	0.14	ppb(v	96
90) 4-Ethyltoluene	19.802	105	10891	0.18	ppb(v	99
91) 1,3,5-Trimethylbenzene	19.918	105	11687	0.23	ppb(v	97
94) 1,2,4-Trimethylbenzene	20.475	105	25144	0.49	ppb(v#	64

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11438.D
Acq On : 8 May 2015 4:28 pm
Operator : mikel1
Sample : JB94203-1DUP
Misc : MS84855,v5w449,100,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 09 09:07:27 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Naphthalene	23.491	128	13343	0.32	ppb(v	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

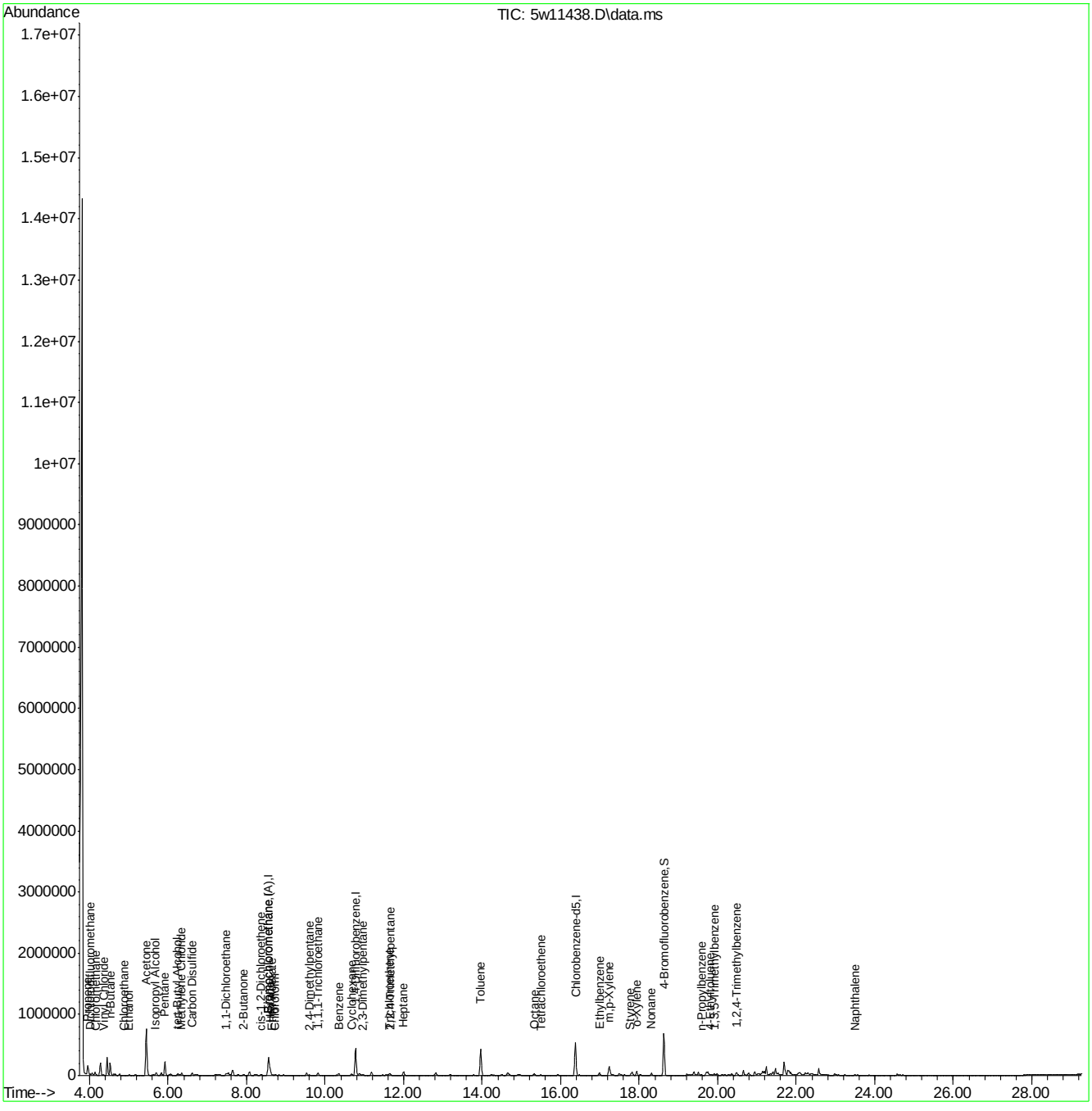
7.4.1

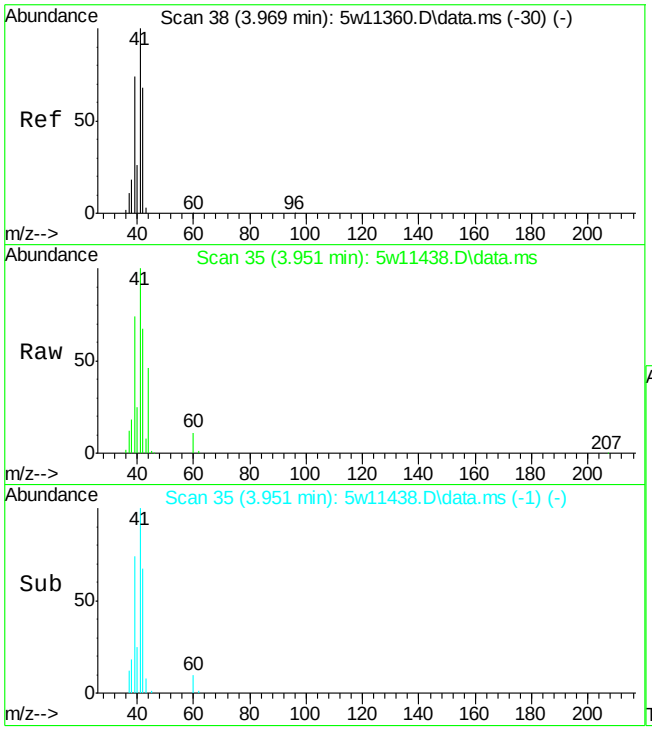
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11438.D
Acq On : 8 May 2015 4:28 pm
Operator : mikel1
Sample : JB94203-1DUP
Misc : MS84855,v5w449,100,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 09 09:07:27 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

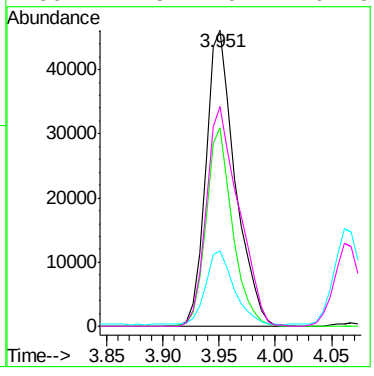


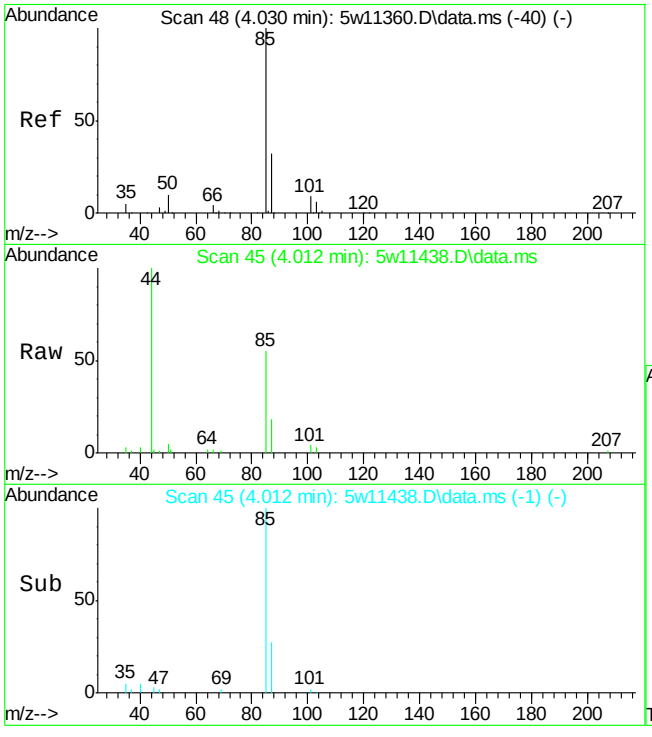


#5
Propene
Concen: 9.00 ppb(v)
RT: 3.951 min Scan# 35
Delta R.T. -0.018 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 41 Resp: 83314

Ion	Ratio	Lower	Upper
41	100		
42	67.0	45.0	83.6
40	25.3	17.9	33.3
39	74.3	49.7	92.3

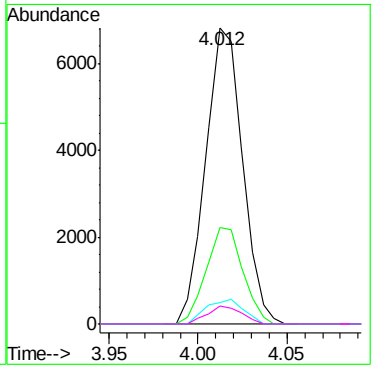


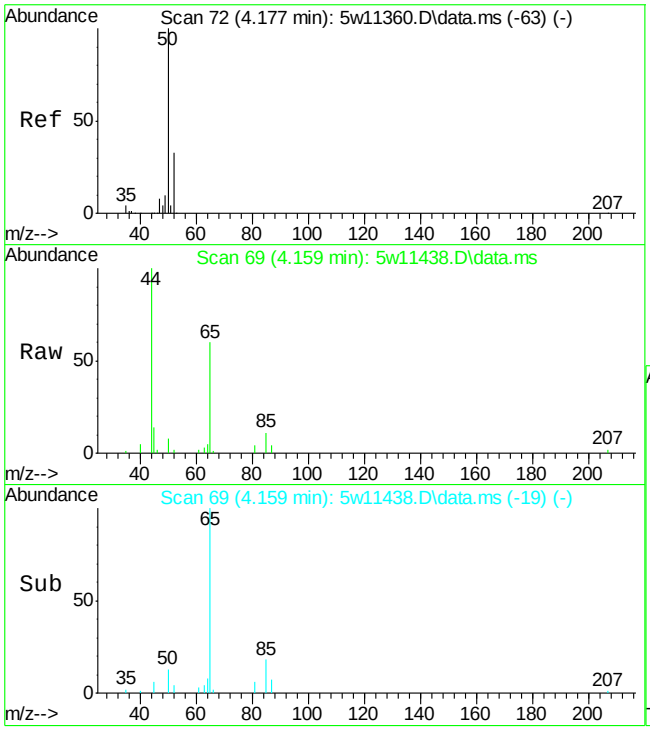


#6
Dichlorodifluoromethane
Concen: 0.30 ppb(v)
RT: 4.012 min Scan# 45
Delta R.T. -0.024 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 85 Resp: 9804

Ion	Ratio	Lower	Upper
85	100		
87	32.6	22.7	42.1
101	7.4	6.0	11.2
103	6.0	4.1	7.5

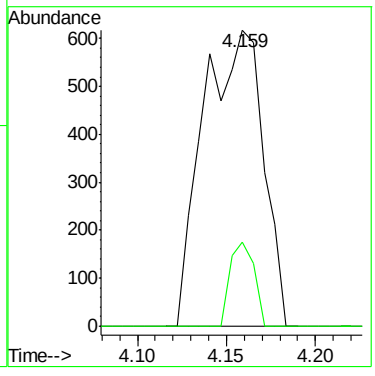


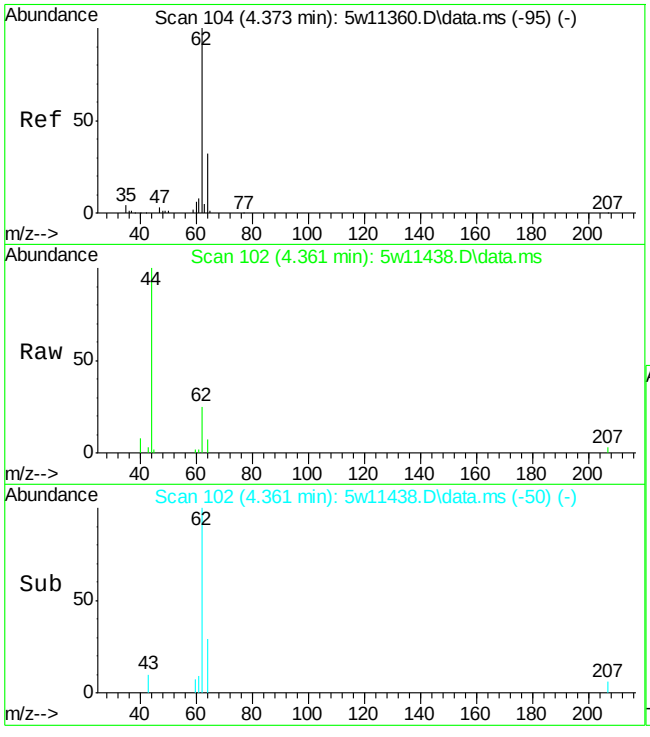


#8
Chloromethane
Concen: 0.13 ppb(v)
RT: 4.159 min Scan# 69
Delta R.T. -0.024 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 50 Resp: 1442

Ion	Ratio	Lower	Upper
50	100		
52	28.2	23.2	43.0

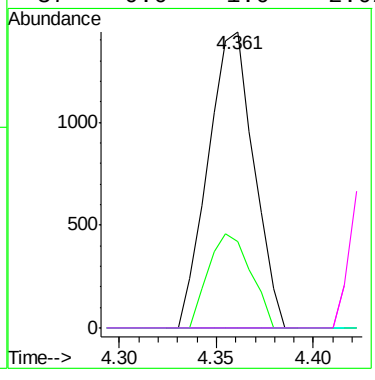


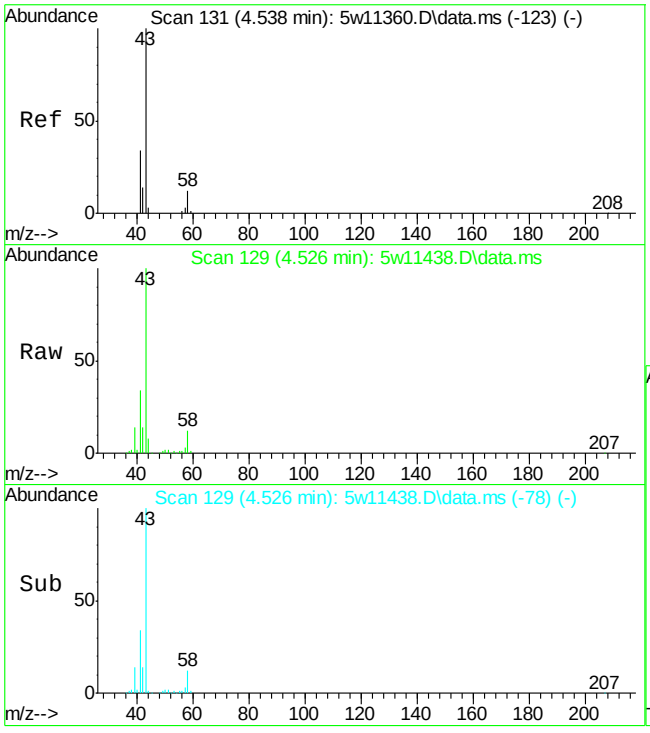


#10
Vinyl Chloride
Concen: 0.18 ppb(v)
RT: 4.361 min Scan# 102
Delta R.T. -0.012 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 62 Resp: 2359

Ion	Ratio	Lower	Upper
62	100		
64	29.3	22.7	42.1
35	0.0	2.6	4.8#
37	0.0	1.0	2.0#

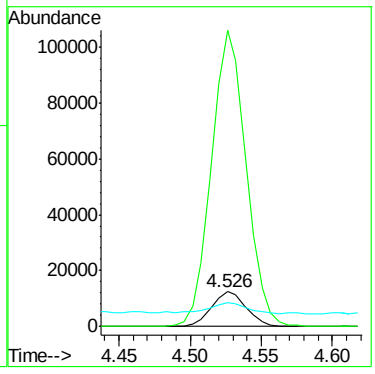


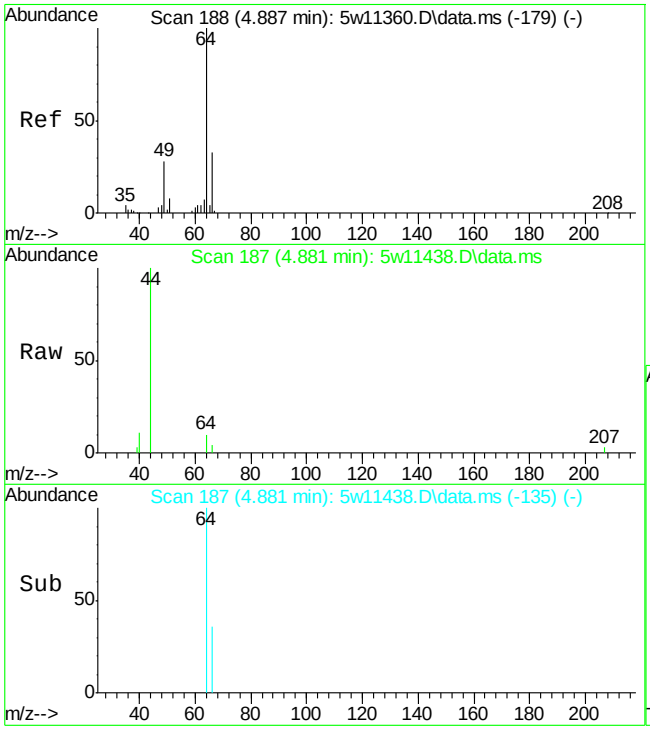


#12
n-Butane
Concen: 11.35 ppb(v)
RT: 4.526 min Scan# 129
Delta R.T. -0.018 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 58 Resp: 20889

Ion	Ratio	Lower	Upper
58	100		
43	858.9	583.8	1084.2
44	67.9	25.6	47.6#

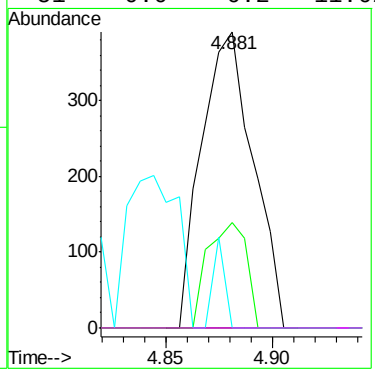


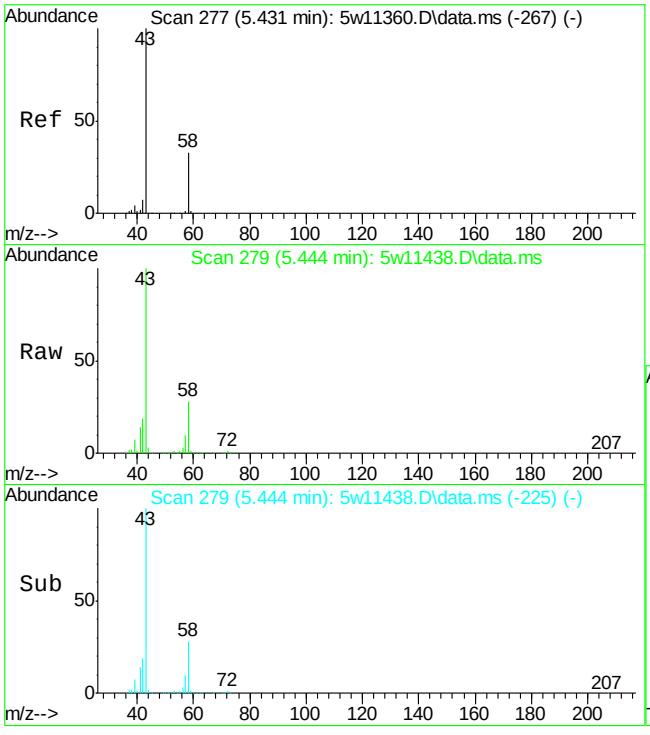


#14
Chloroethane
Concen: 0.10 ppb(v)
RT: 4.881 min Scan# 187
Delta R.T. -0.012 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 64 Resp: 660

Ion	Ratio	Lower	Upper
64	100		
66	35.5	22.3	41.5
49	0.0	19.3	35.8#
51	0.0	6.2	11.6#

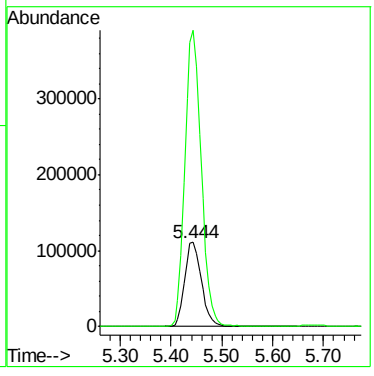


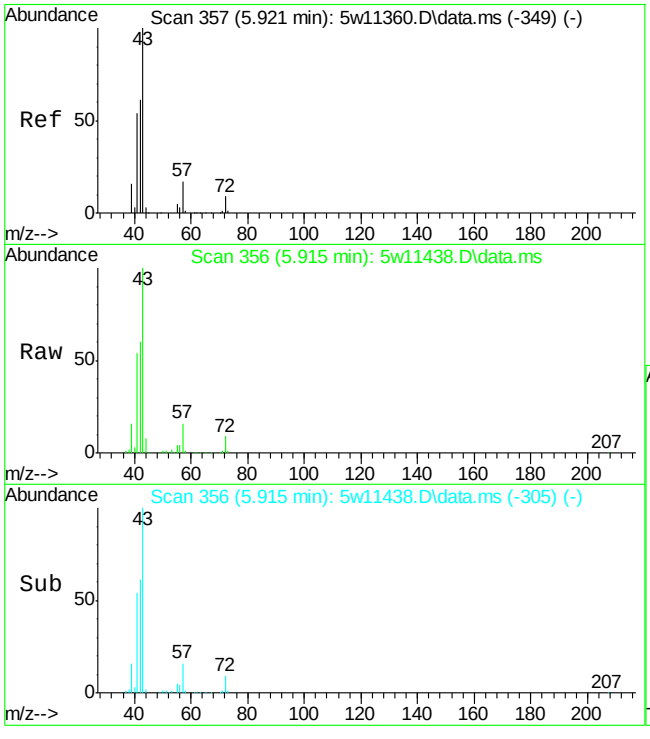


#21
Acetone
Concen: 42.01 ppb(v)
RT: 5.444 min Scan# 279
Delta R.T. 0.000 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 58 Resp: 253377

Ion	Ratio	Lower	Upper
58	100		
43	353.3	217.8	404.6

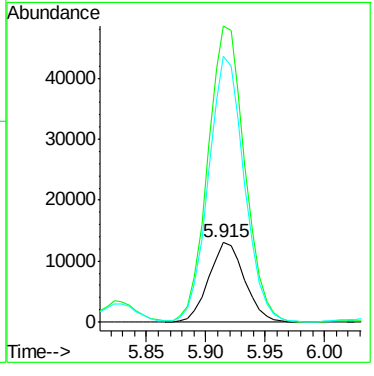




#22
Pentane
Concen: 8.89 ppb(v)
RT: 5.915 min Scan# 356
Delta R.T. -0.018 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

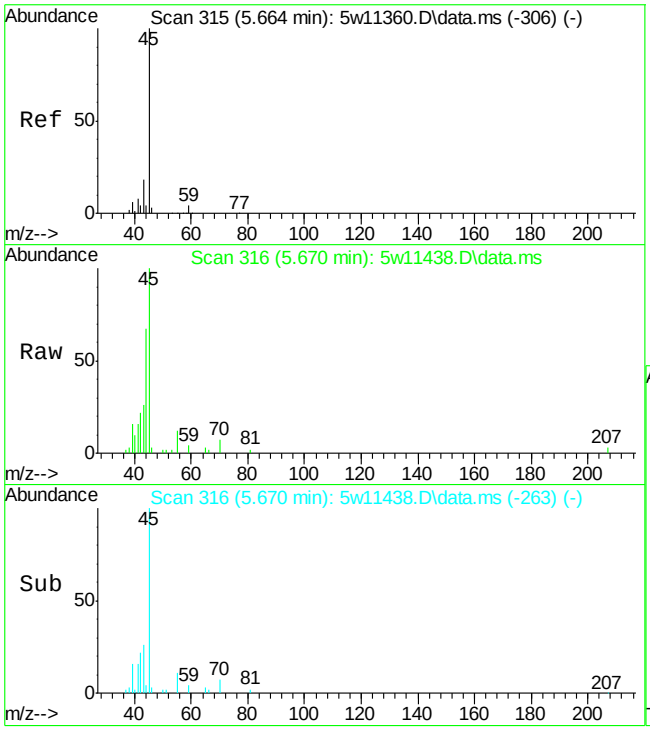
Tgt Ion: 57 Resp: 27451

Ion	Ratio	Lower	Upper
57	100		
42	369.1	262.5	487.5
41	331.9	225.7	419.1



7.4.1

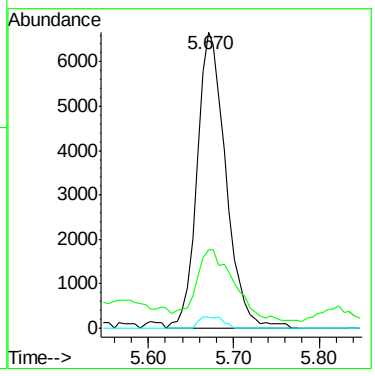
7

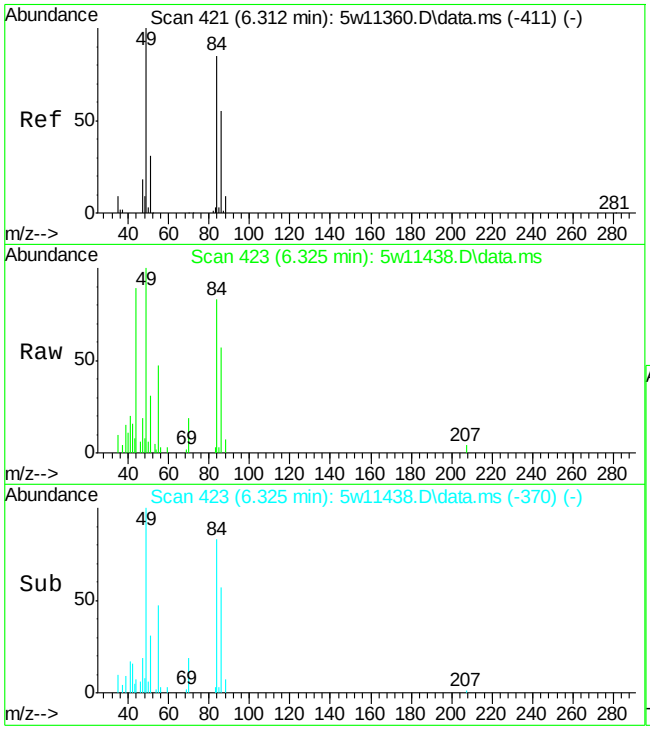


#25
Isopropyl Alcohol
Concen: 0.65 ppb(v)
RT: 5.670 min Scan# 316
Delta R.T. -0.006 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 45 Resp: 15556

Ion	Ratio	Lower	Upper
45	100		
43	26.5	14.0	26.0#
59	3.9	3.5	6.5

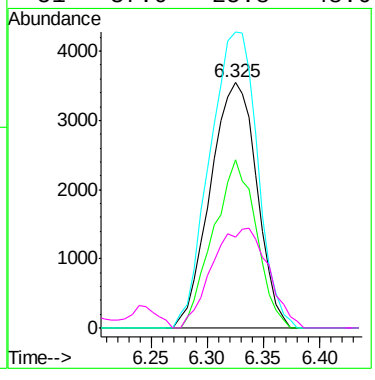


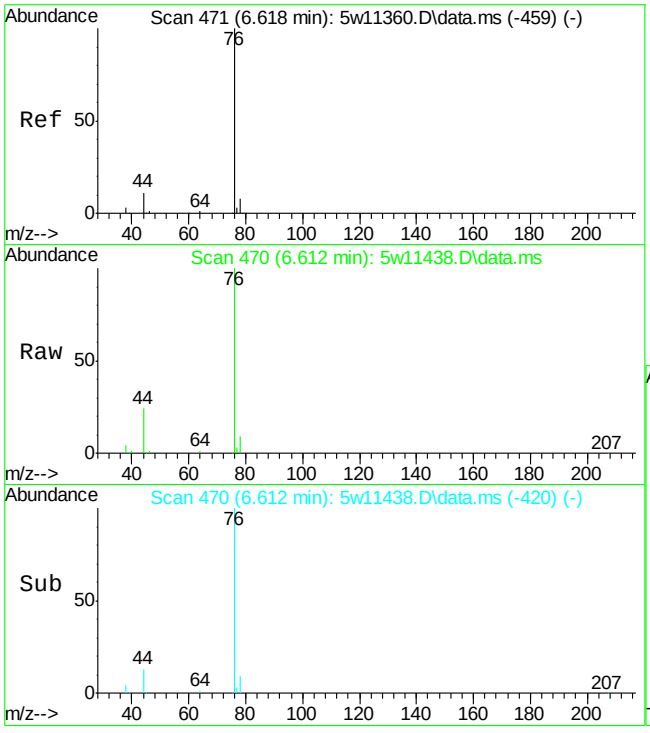


#28
Methylene Chloride
Concen: 0.85 ppb(v)
RT: 6.325 min Scan# 423
Delta R.T. -0.006 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 84 Resp: 10202

Ion	Ratio	Lower	Upper
84	100		
86	68.6	44.7	83.1
49	120.4	80.9	150.3
51	37.0	25.8	48.0

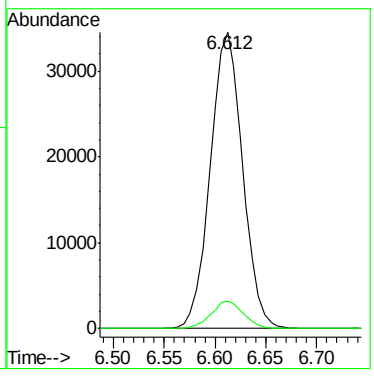


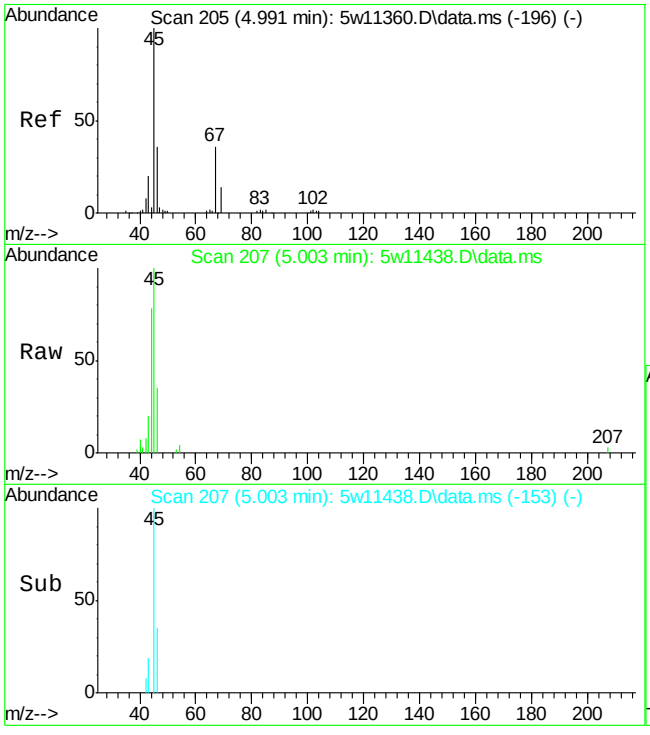


#29
Carbon Disulfide
Concen: 2.01 ppb(v)
RT: 6.612 min Scan# 470
Delta R.T. -0.025 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 76 Resp: 76381

Ion	Ratio	Lower	Upper
76	100		
78	9.0	6.6	12.4

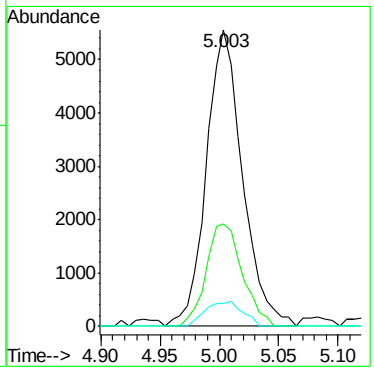




#30
Ethanol
Concen: 1.94 ppb(v)
RT: 5.003 min Scan# 207
Delta R.T. 0.000 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

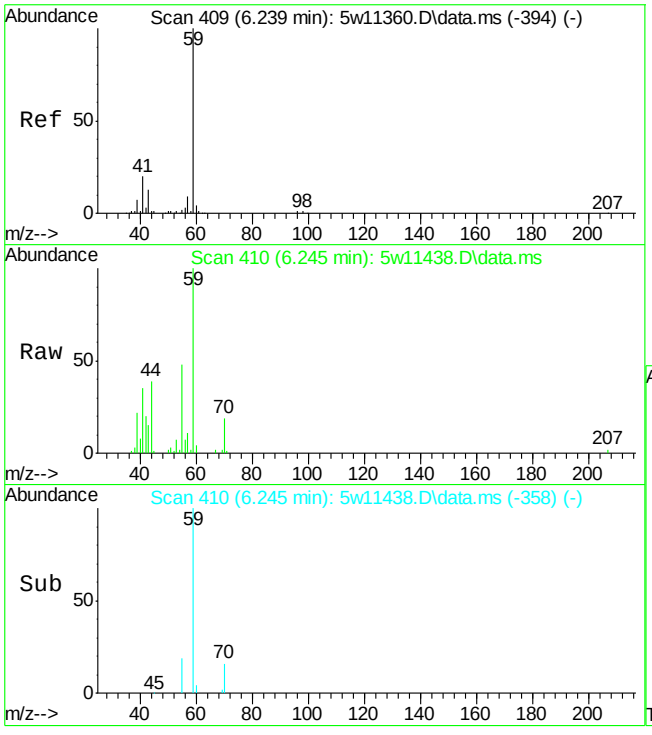
Tgt Ion: 45 Resp: 11791

Ion	Ratio	Lower	Upper
45	100		
46	34.7	24.6	45.6
42	7.7	5.5	10.1



7.4.1

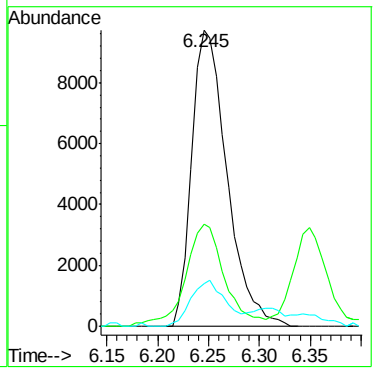
7

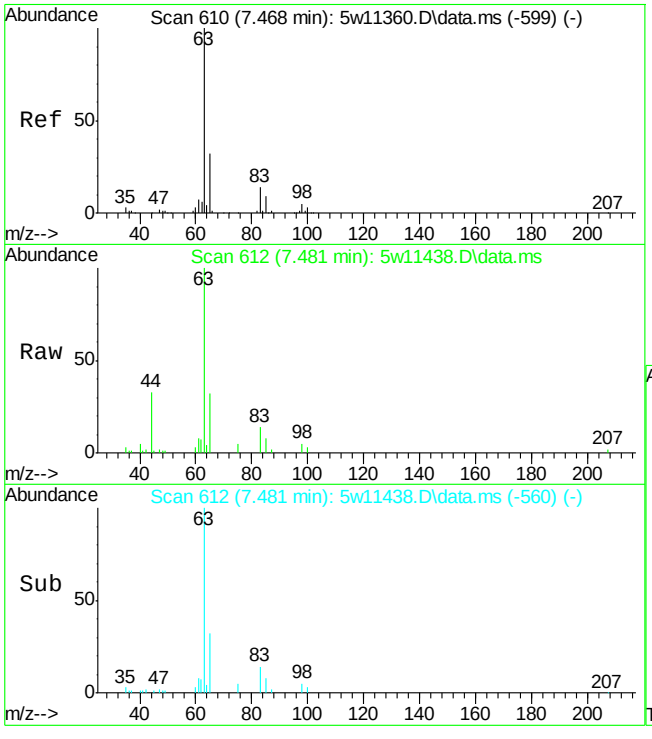


#34
tert-Butyl Alcohol
Concen: 0.78 ppb(v)
RT: 6.245 min Scan# 410
Delta R.T. -0.012 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 59 Resp: 23351

Ion	Ratio	Lower	Upper
59	100		
41	34.6	13.4	24.8#
43	14.5	9.3	17.3

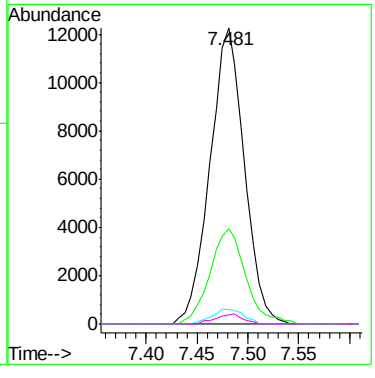


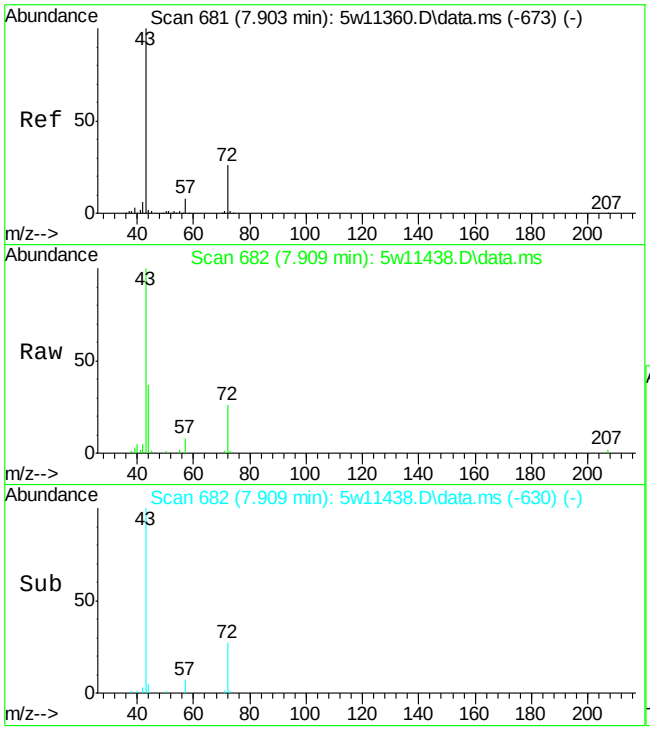


#37
1,1-Dichloroethane
Concen: 1.21 ppb(v)
RT: 7.481 min Scan# 612
Delta R.T. -0.012 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 63 Resp: 28881

Ion	Ratio	Lower	Upper
63	100		
65	32.1	22.2	41.2
98	4.8	3.6	6.8
100	3.0	2.2	4.2

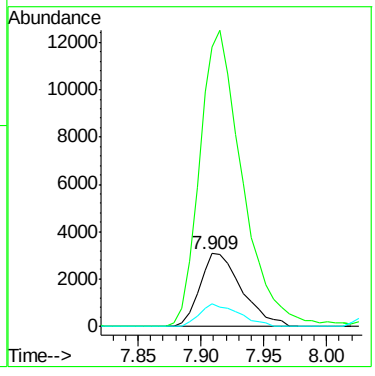


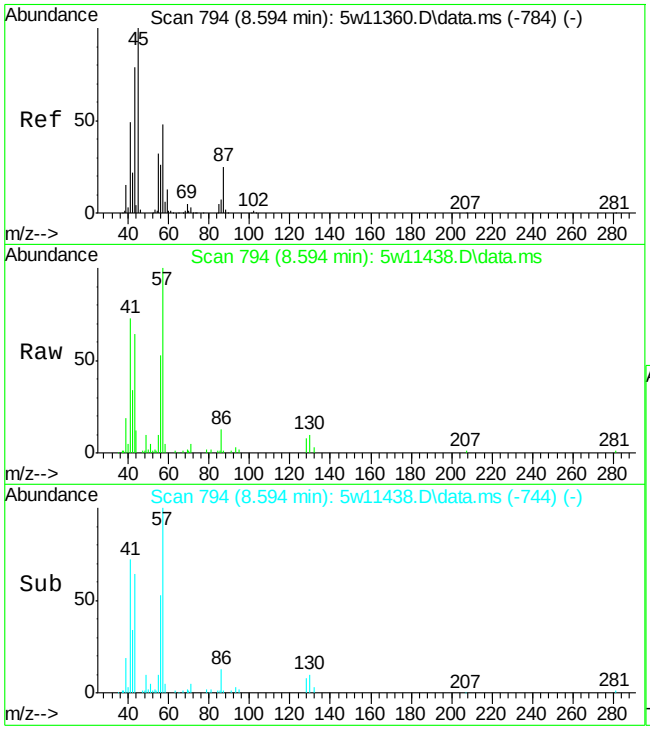


#38
2-Butanone
Concen: 1.06 ppb(v)
RT: 7.909 min Scan# 682
Delta R.T. -0.012 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 72 Resp: 7061

Ion	Ratio	Lower	Upper
72	100		
43	385.0	274.1	508.9
57	31.0	22.1	41.1

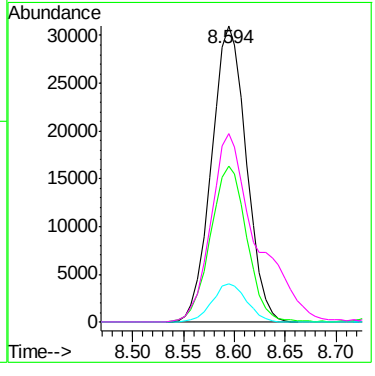


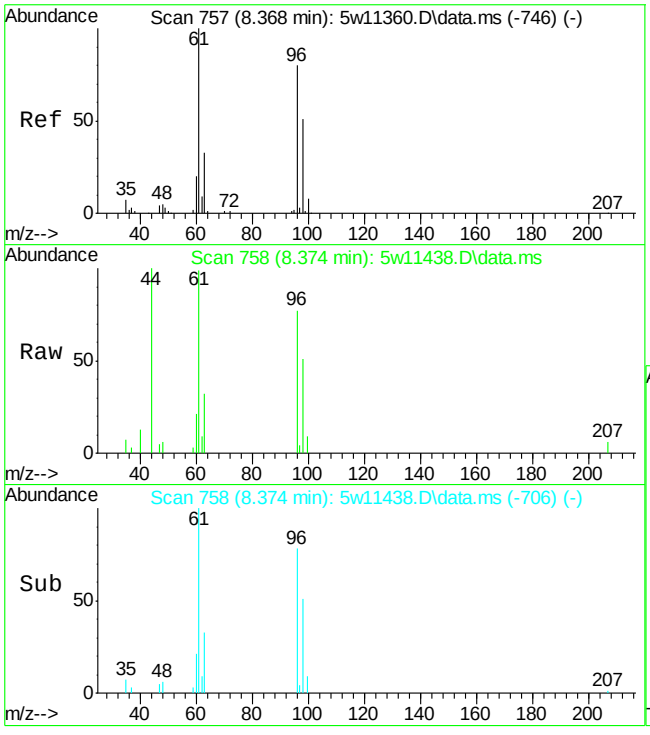


#39
Hexane
Concen: 3.44 ppb(v)
RT: 8.594 min Scan# 794
Delta R.T. -0.024 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 57 Resp: 74015

Ion	Ratio	Lower	Upper
57	100		
56	52.8	37.4	69.4
86	12.9	10.4	19.2
43	63.5	130.8	242.8#

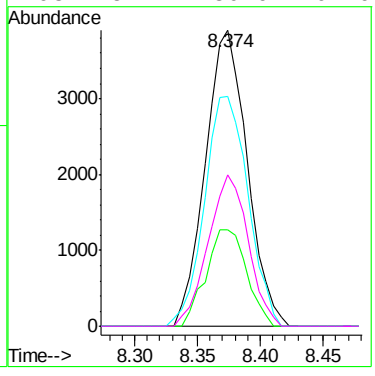


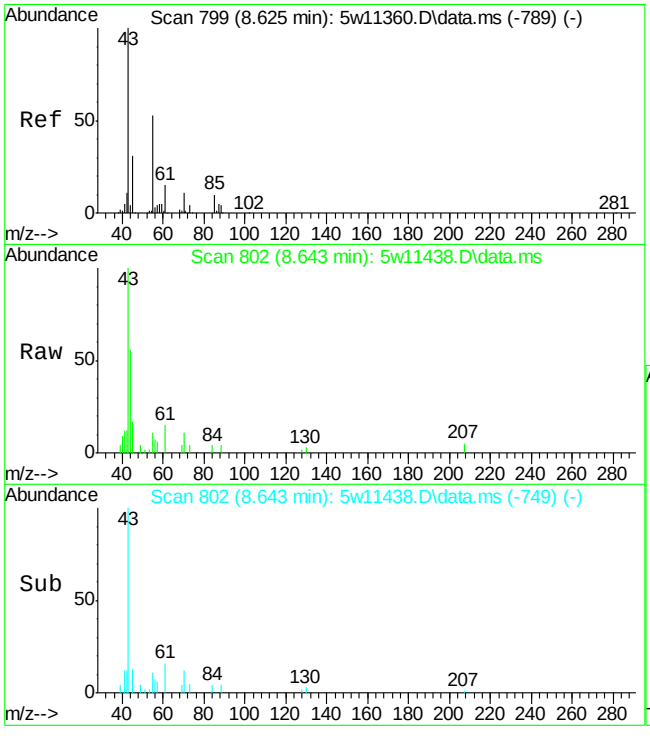


#40
cis-1,2-Dichloroethene
Concen: 0.50 ppb(v)
RT: 8.374 min Scan# 758
Delta R.T. -0.012 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 61 Resp: 9009

Ion	Ratio	Lower	Upper
61	100		
63	32.7	22.9	42.5
96	77.9	56.3	104.5
98	51.1	36.0	67.0

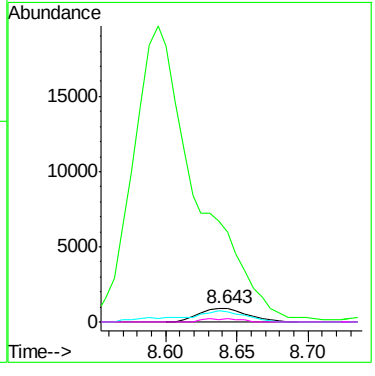




#42
Ethyl Acetate
Concen: 0.45 ppb(v)
RT: 8.643 min Scan# 802
Delta R.T. -0.006 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

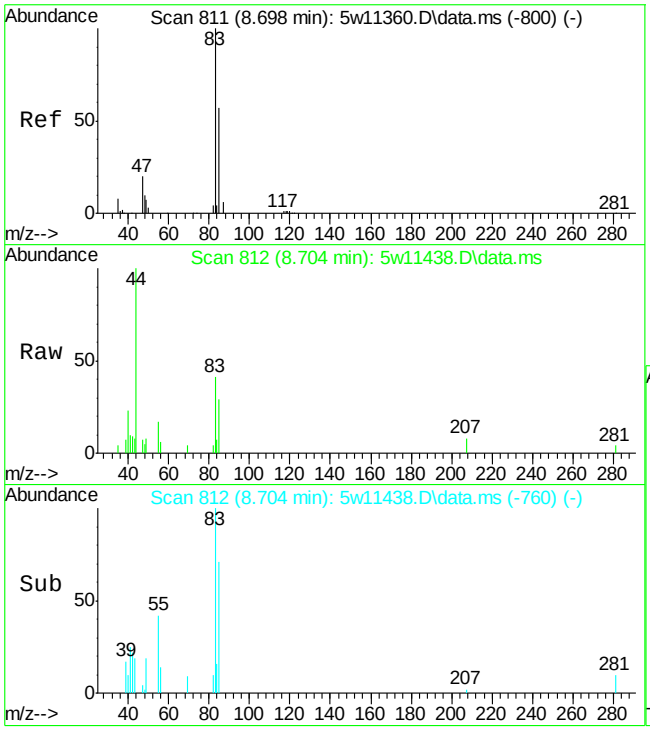
Tgt Ion: 61 Resp: 2132

Ion	Ratio	Lower	Upper
61	100		
43	648.0	556.0	1032.6
70	74.1	50.3	93.3
88	24.2	18.6	34.5



7.4.1

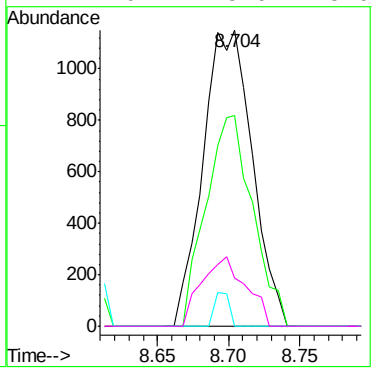
7

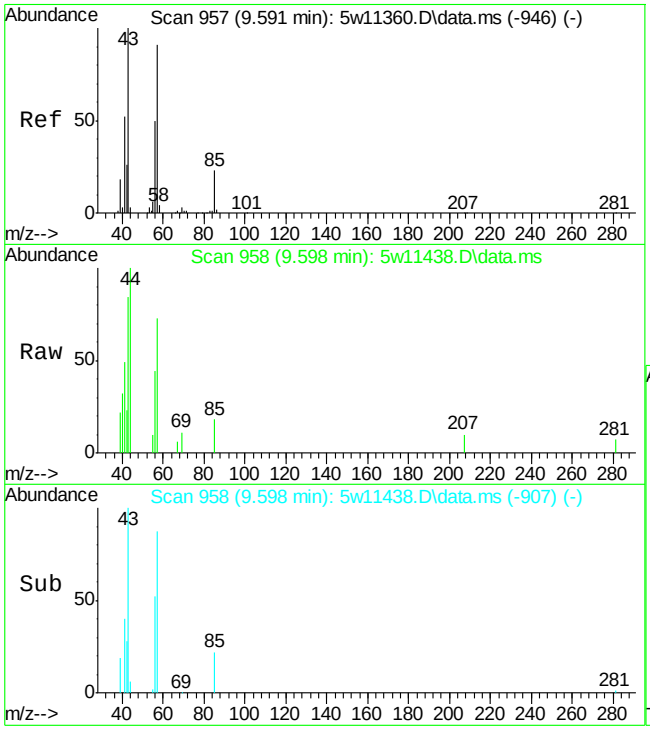


#44
Chloroform
Concen: 0.10 ppb(v)
RT: 8.704 min Scan# 812
Delta R.T. -0.012 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 83 Resp: 2769

Ion	Ratio	Lower	Upper
83	100		
85	71.1	45.0	83.6
87	0.0	7.3	13.5#
47	16.2	15.0	28.0

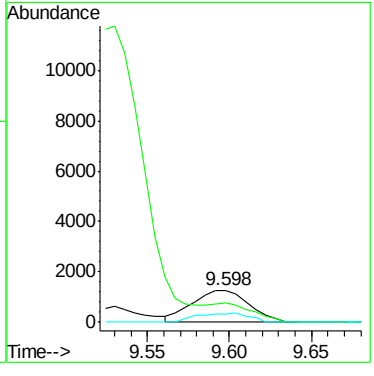


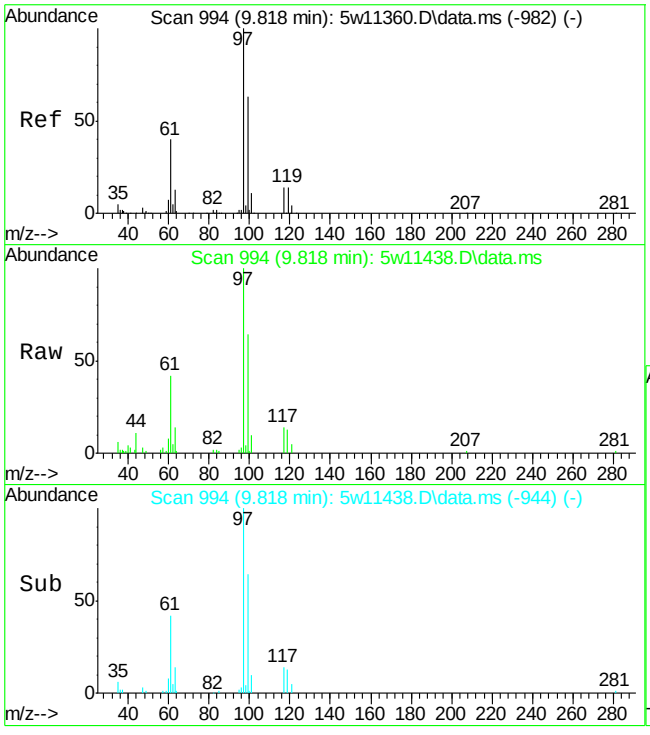


#45
2,4-Dimethylpentane
Concen: 0.13 ppb(v)
RT: 9.598 min Scan# 958
Delta R.T. -0.018 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 57 Resp: 3013

Ion	Ratio	Lower	Upper
57	100		
56	60.3	40.3	74.9
85	25.2	18.6	34.6

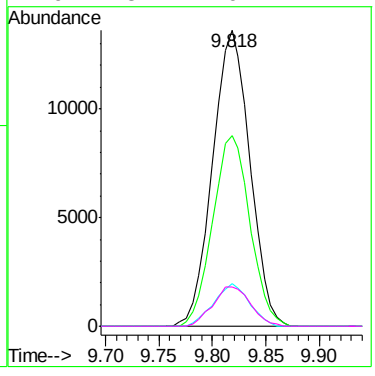


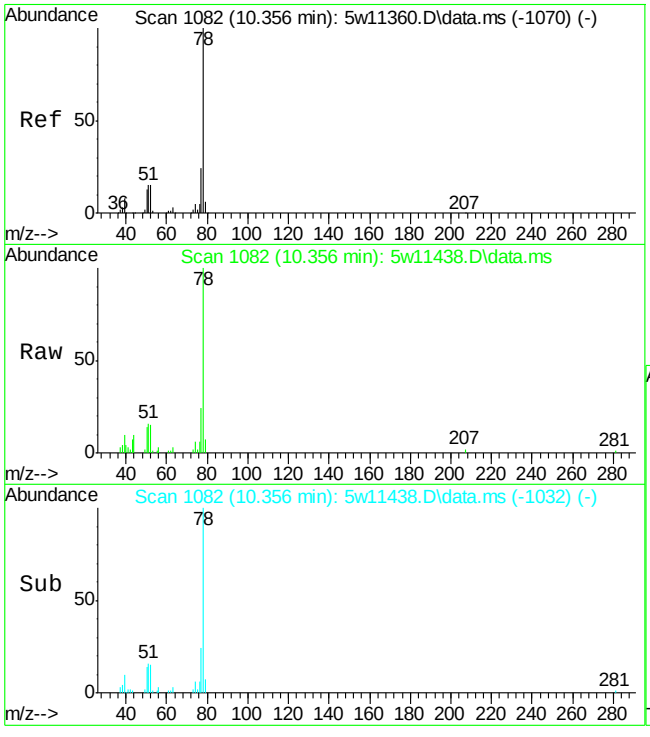


#47
1,1,1-Trichloroethane
Concen: 1.22 ppb(v)
RT: 9.818 min Scan# 994
Delta R.T. -0.024 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 97 Resp: 33030

Ion	Ratio	Lower	Upper
97	100		
99	64.5	44.9	83.3
117	14.5	10.1	18.7
119	13.1	9.4	17.4

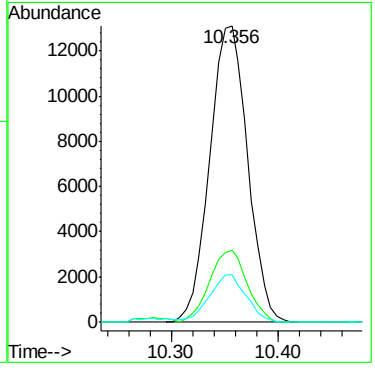


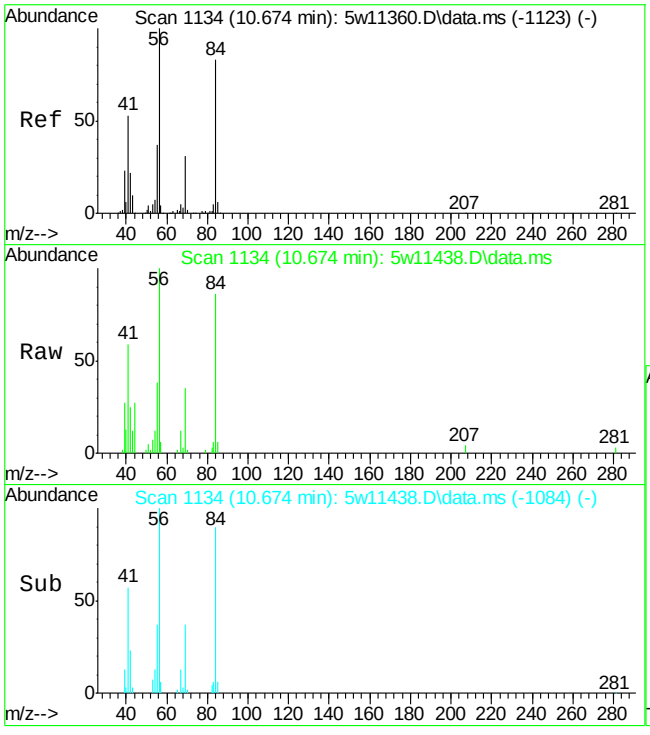


#49
Benzene
Concen: 0.76 ppb(v)
RT: 10.356 min Scan# 1082
Delta R.T. -0.024 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 78 Resp: 32291

Ion	Ratio	Lower	Upper
78	100		
77	24.4	16.6	30.8
51	15.9	10.6	19.6

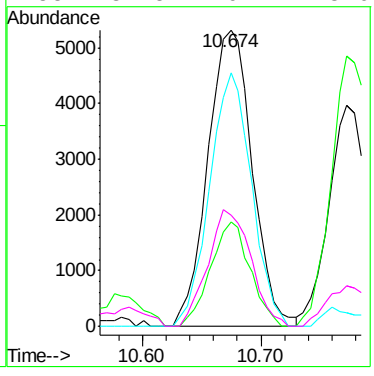


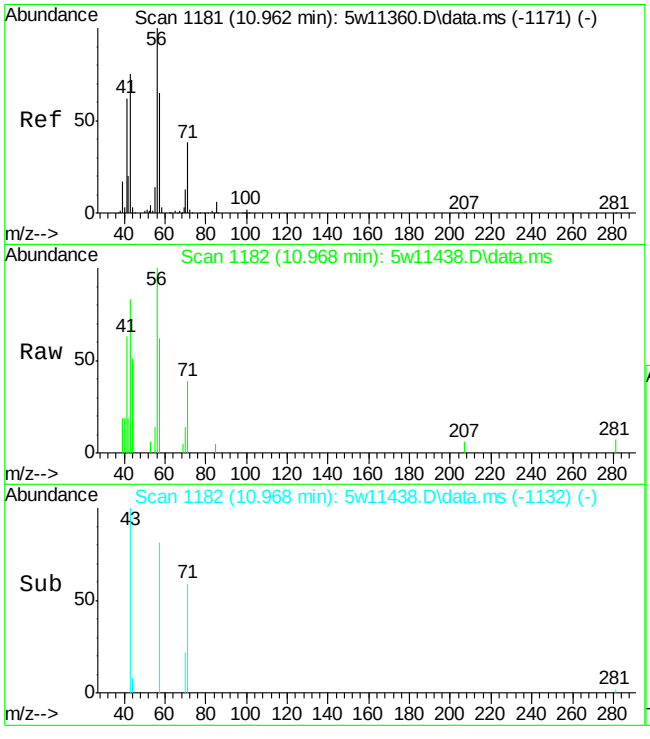


#51
Cyclohexane
Concen: 0.68 ppb(v)
RT: 10.674 min Scan# 1134
Delta R.T. -0.024 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 56 Resp: 13900

Ion	Ratio	Lower	Upper
56	100		
69	35.3	22.1	41.1
84	85.8	57.8	107.4
55	37.5	26.2	48.6

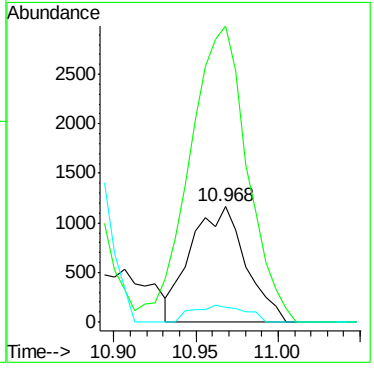


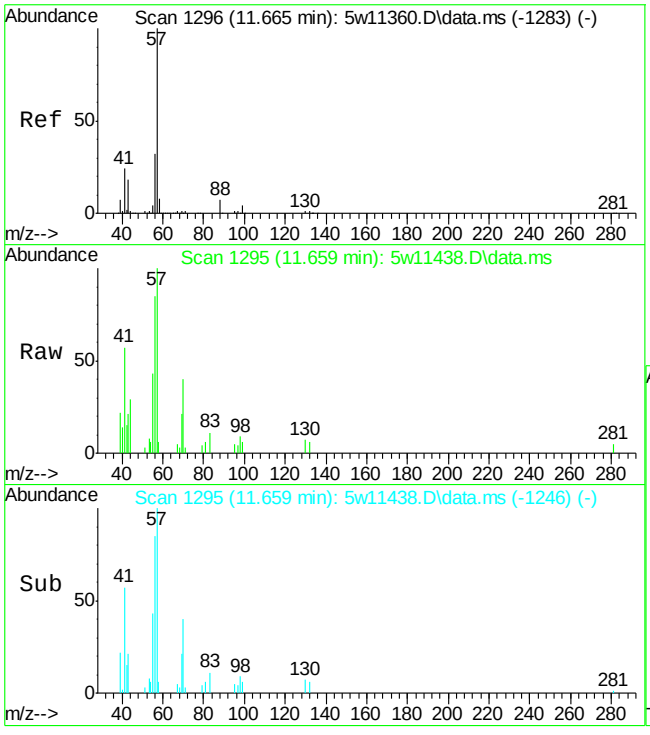


#52
2,3-Dimethylpentane
Concen: 0.32 ppb(v)
RT: 10.968 min Scan# 1182
Delta R.T. -0.024 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 71 Resp: 2695

Ion	Ratio	Lower	Upper
71	100		
56	255.1	183.3	340.5
85	12.5	10.8	20.0

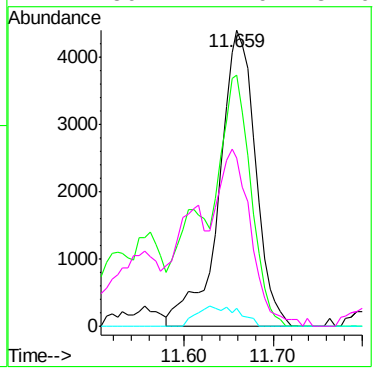


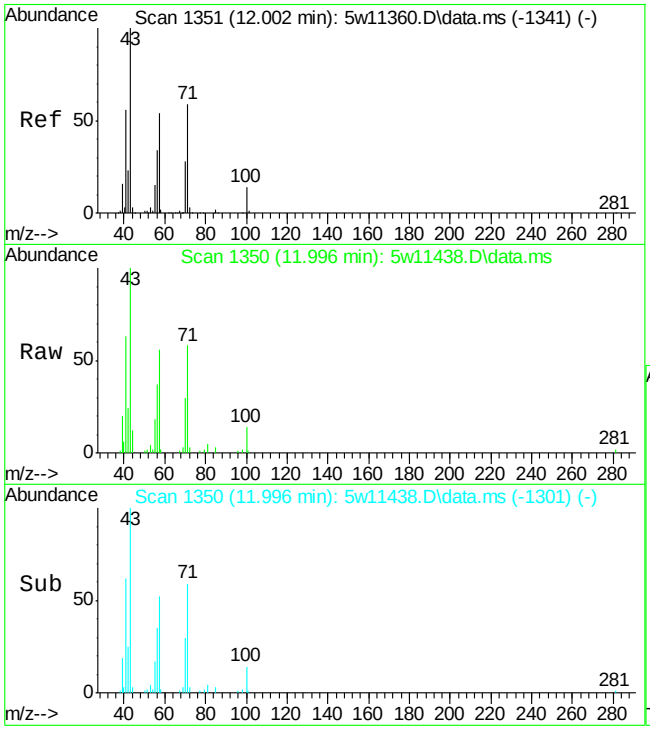


#54
2,2,4-Trimethylpentane
Concen: 0.20 ppb(v)
RT: 11.659 min Scan# 1295
Delta R.T. -0.030 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 57 Resp: 12536

Ion	Ratio	Lower	Upper
57	100		
56	85.0	23.2	43.0#
99	6.1	3.4	6.4
41	56.7	17.0	31.6#

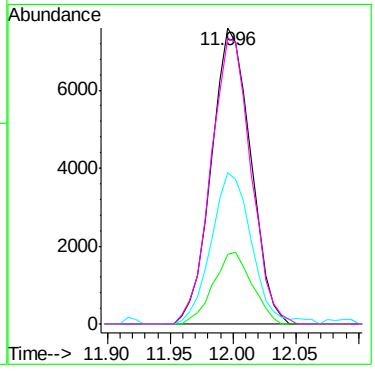


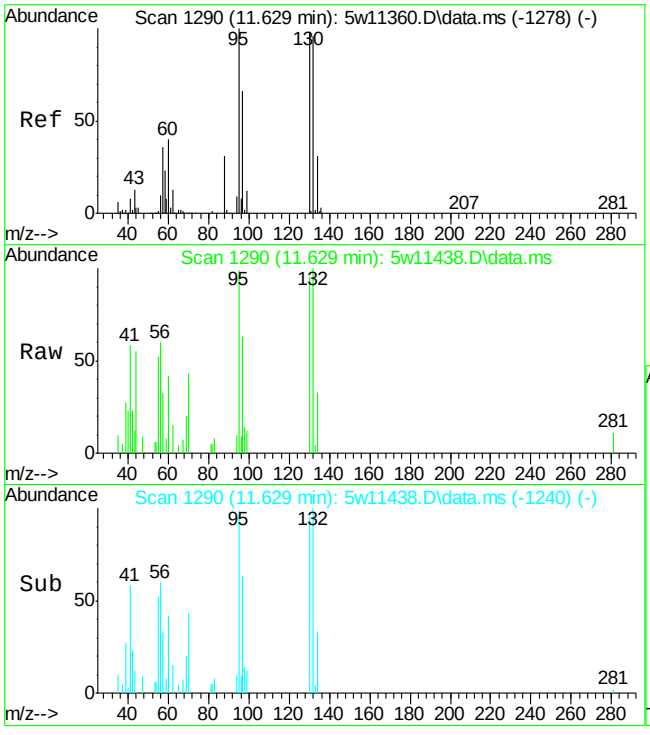


#55
Heptane
Concen: 1.34 ppb(v)
RT: 11.996 min Scan# 1350
Delta R.T. -0.030 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 71 Resp: 16435

Ion	Ratio	Lower	Upper
71	100		
100	23.6	18.3	33.9
70	51.3	33.5	62.1
57	96.6	64.9	120.5

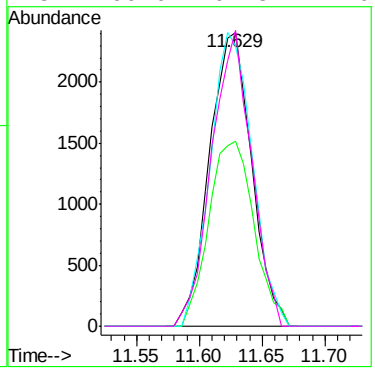


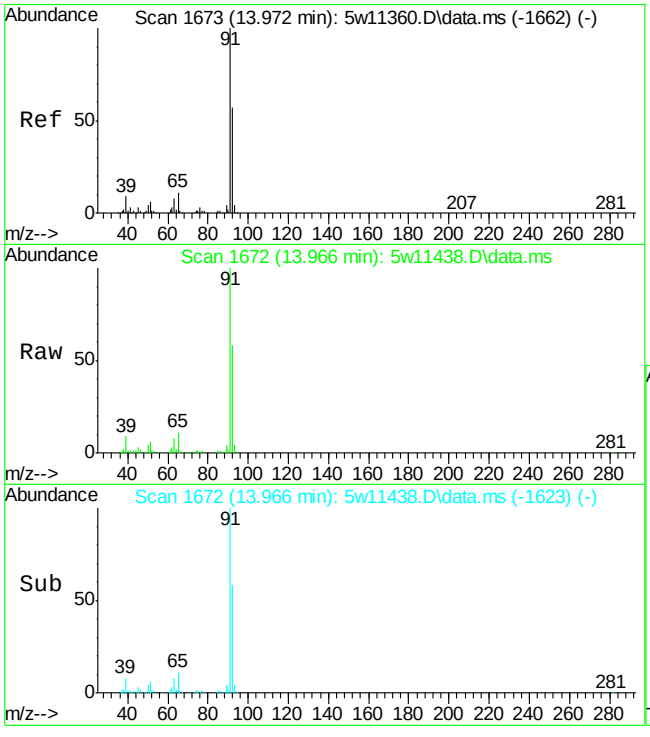


#56
Trichloroethene
Concen: 0.31 ppb(v)
RT: 11.629 min Scan# 1290
Delta R.T. -0.024 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 95 Resp: 5605

Ion	Ratio	Lower	Upper
95	100		
97	63.0	46.0	85.4
130	95.2	69.8	129.6
132	100.6	67.3	124.9

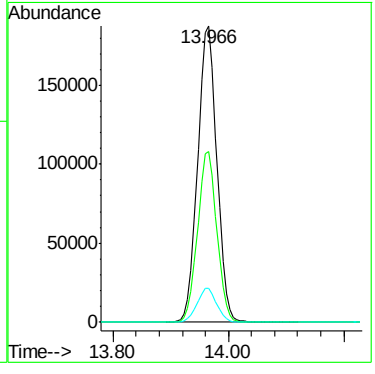


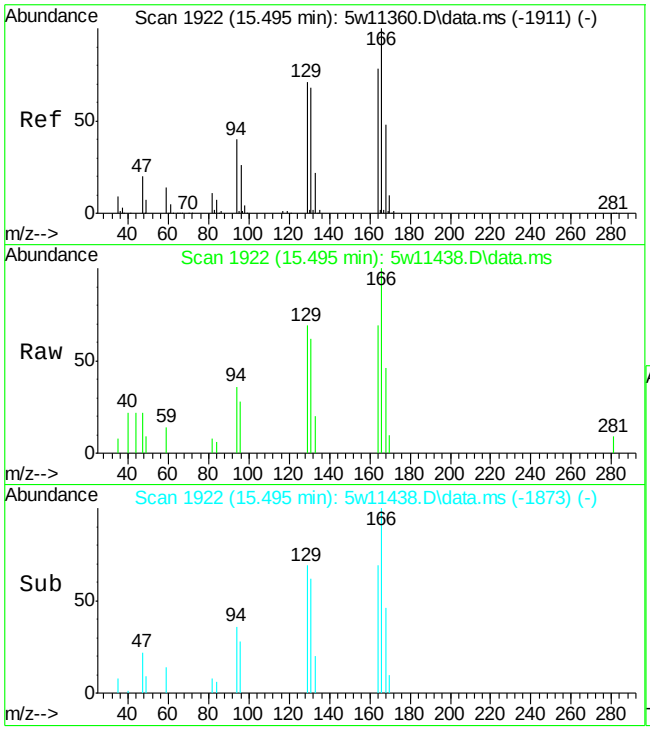


#66
Toluene
Concen: 8.92 ppb(v)
RT: 13.966 min Scan# 1672
Delta R.T. -0.030 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 91 Resp: 431682

Ion	Ratio	Lower	Upper
91	100		
92	57.6	40.3	74.9
65	11.3	7.6	14.0

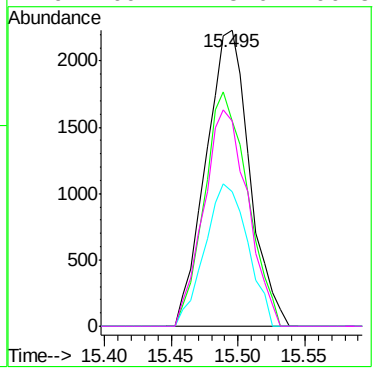


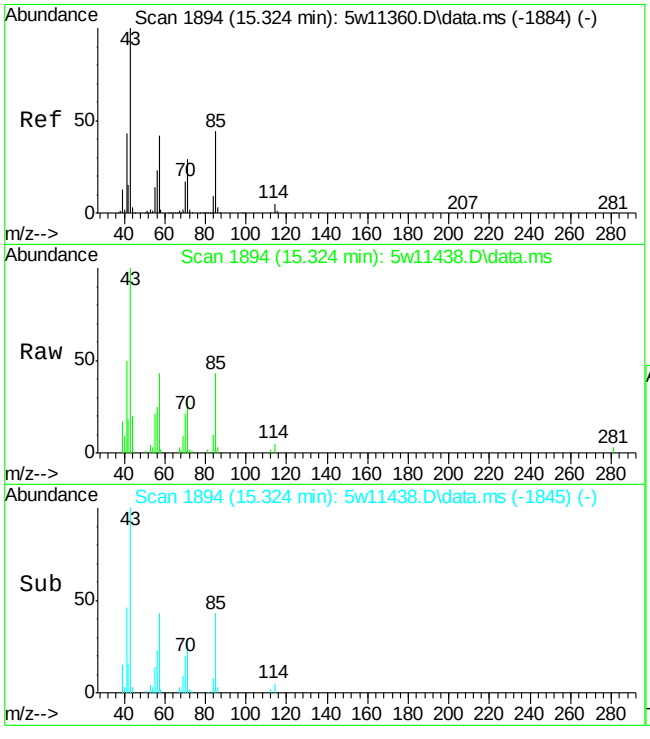


#71
Tetrachloroethene
Concen: 0.22 ppb(v)
RT: 15.495 min Scan# 1922
Delta R.T. -0.030 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion:166 Resp: 5074

Ion	Ratio	Lower	Upper
166	100		
164	69.2	54.3	100.9
168	45.5	33.9	62.9
129	69.2	48.6	90.3

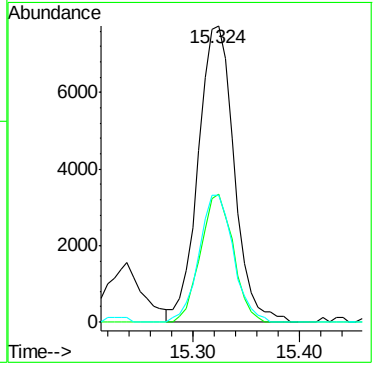


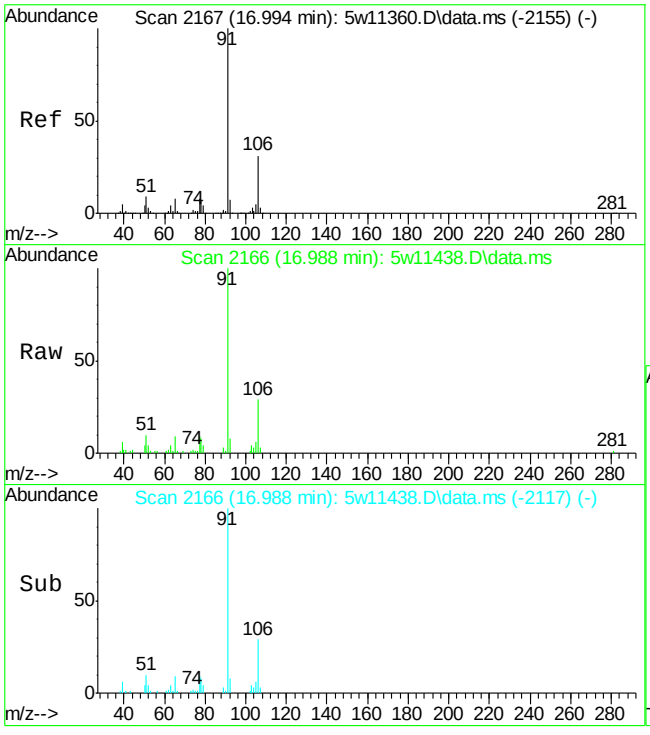


#73
Octane
Concen: 0.60 ppb(v)
RT: 15.324 min Scan# 1894
Delta R.T. -0.030 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 43 Resp: 18014

Ion	Ratio	Lower	Upper
43	100		
85	43.2	31.6	58.8
57	42.9	29.5	54.7

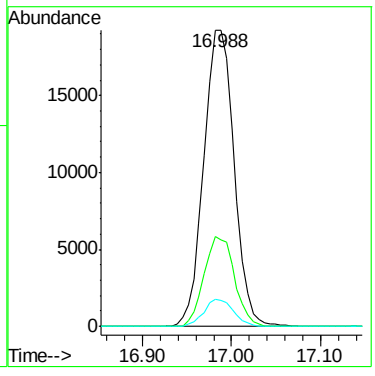


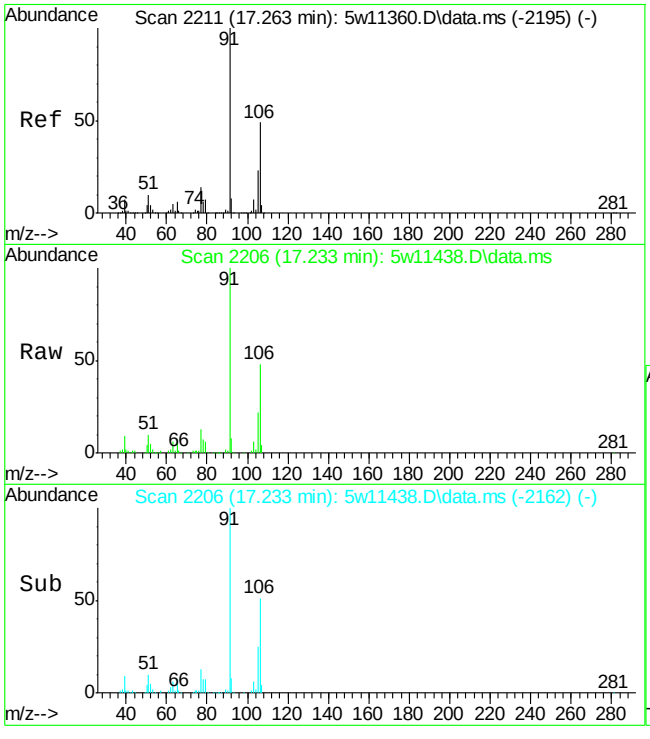


#77
Ethylbenzene
Concen: 0.79 ppb(v)
RT: 16.988 min Scan# 2166
Delta R.T. -0.030 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 91 Resp: 45541

Ion	Ratio	Lower	Upper
91	100		
106	29.4	21.9	40.7
77	8.7	6.0	11.2

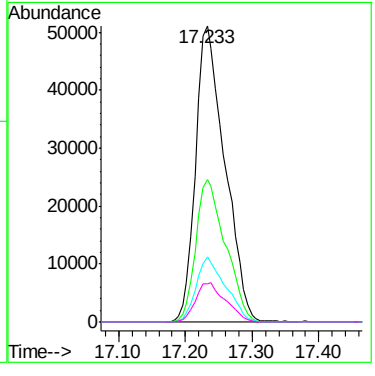


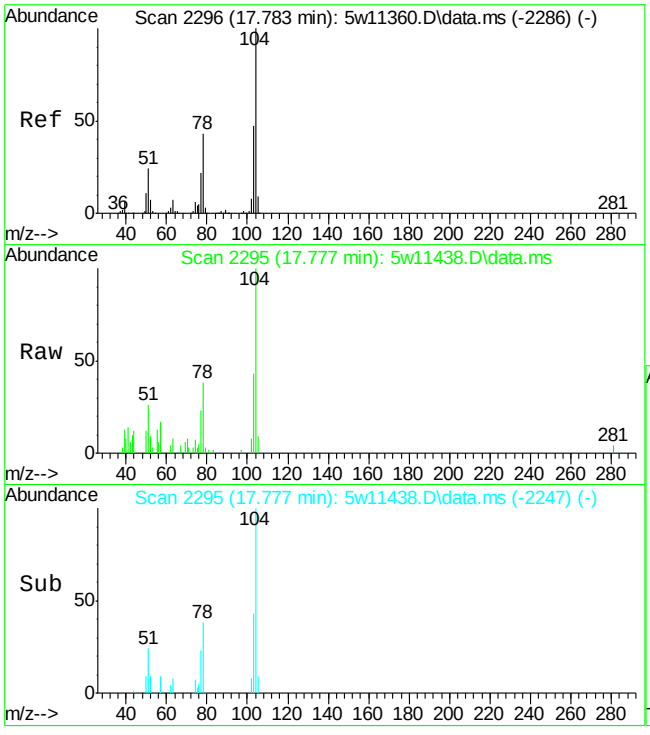


#78
m,p-Xylene
Concen: 3.35 ppb(v)
RT: 17.233 min Scan# 2206
Delta R.T. -0.061 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 91 Resp: 155219

Ion	Ratio	Lower	Upper
91	100		
106	48.1	35.1	65.1
105	22.1	16.0	29.8
77	12.8	9.4	17.4

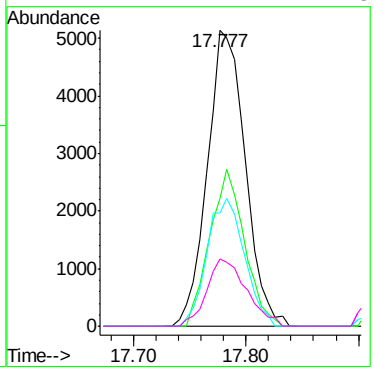


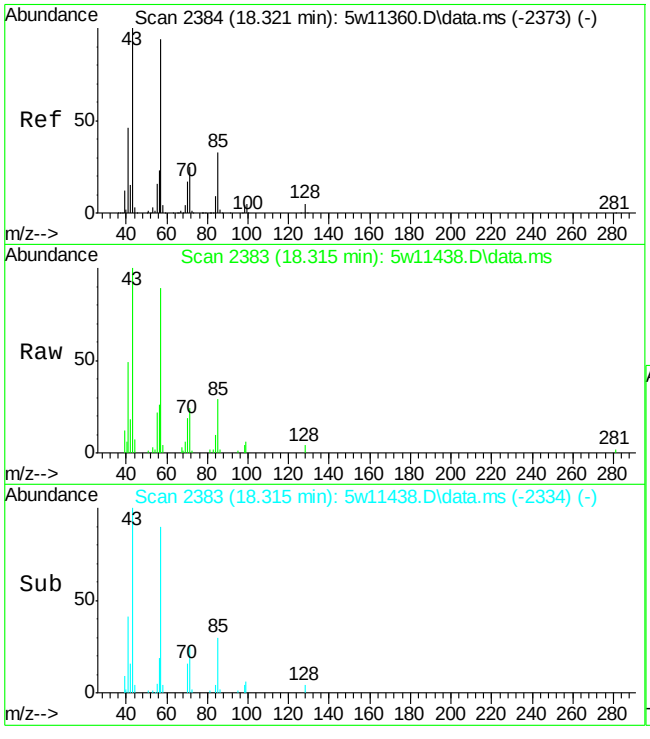


#79
Styrene
Concen: 0.37 ppb(v)
RT: 17.777 min Scan# 2295
Delta R.T. -0.037 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion:104 Resp: 11999

Ion	Ratio	Lower	Upper
104	100		
103	43.3	33.2	61.6
78	38.1	29.1	54.1
77	22.7	14.7	27.3

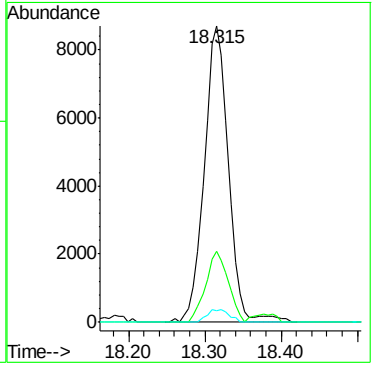


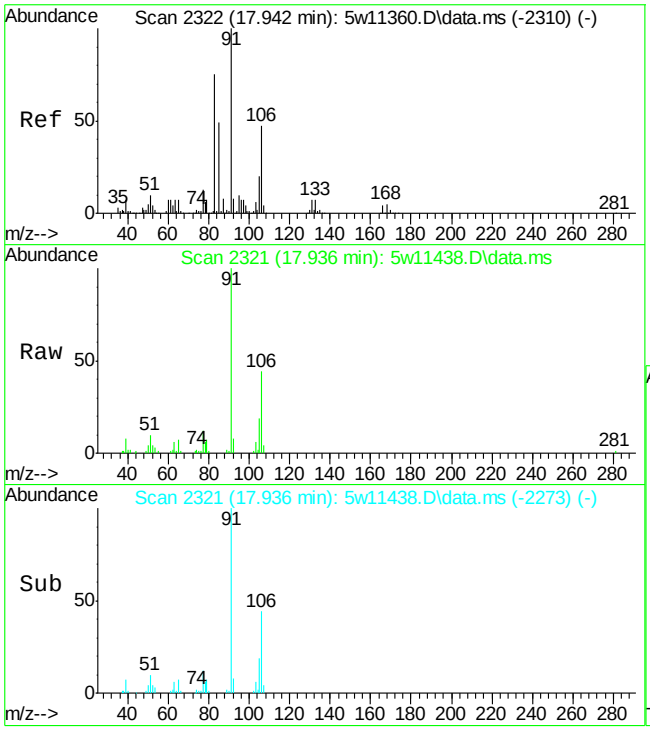


#80
Nonane
Concen: 0.65 ppb(v)
RT: 18.315 min Scan# 2383
Delta R.T. -0.030 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 43 Resp: 19099

Ion	Ratio	Lower	Upper
43	100		
71	23.9	18.4	34.2
128	3.8	3.6	6.8

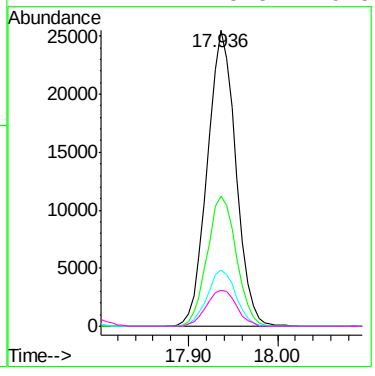


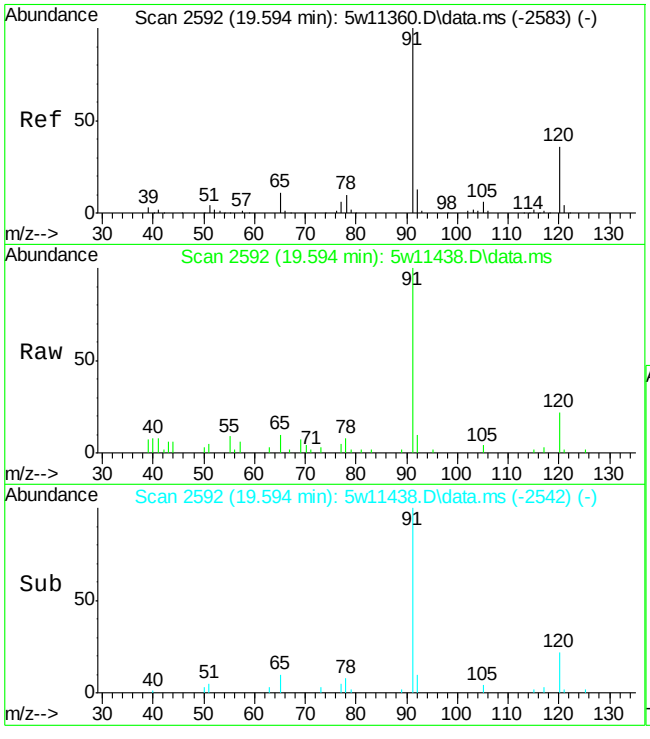


#81
o-Xylene
Concen: 1.26 ppb(v)
RT: 17.936 min Scan# 2321
Delta R.T. -0.037 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion: 91 Resp: 56630

Ion	Ratio	Lower	Upper
91	100		
106	44.1	33.5	62.1
105	18.9	13.4	24.8
77	12.2	8.8	16.3

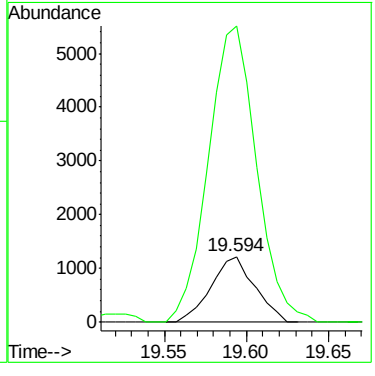


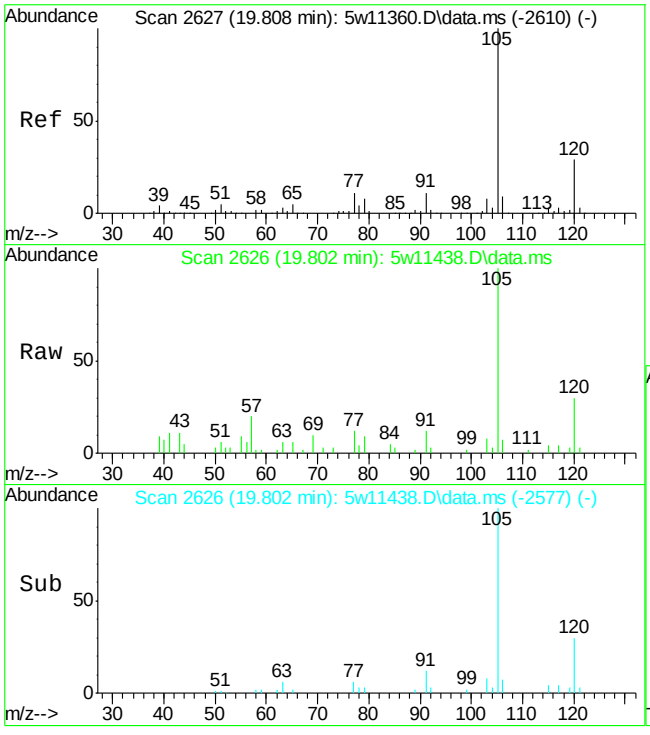


#88
n-Propylbenzene
Concen: 0.14 ppb(v)
RT: 19.594 min Scan# 2592
Delta R.T. -0.024 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion:120 Resp: 2239

Ion	Ratio	Lower	Upper
120	100		
91	451.4	323.0	599.8

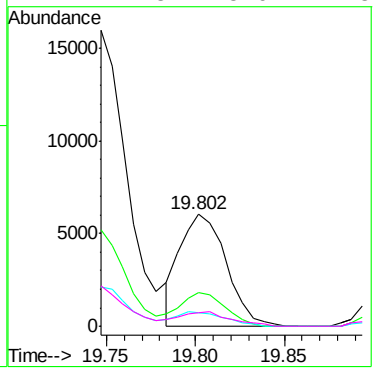


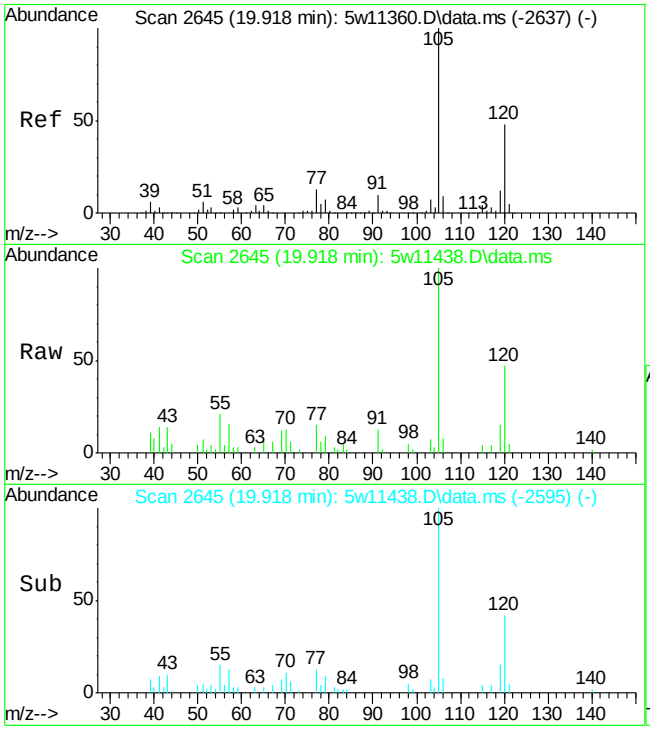


#90
4-Ethyltoluene
Concen: 0.18 ppb(v)
RT: 19.802 min Scan# 2626
Delta R.T. -0.030 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion:105 Resp: 10891

Ion	Ratio	Lower	Upper
105	100		
120	29.7	20.6	38.2
91	11.8	7.6	14.0
77	11.8	8.0	14.8

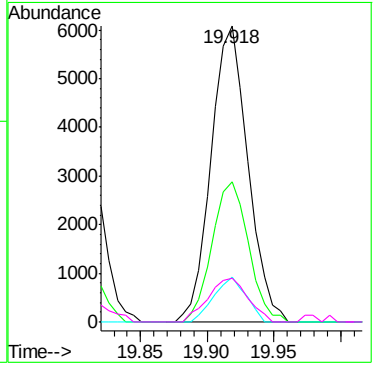


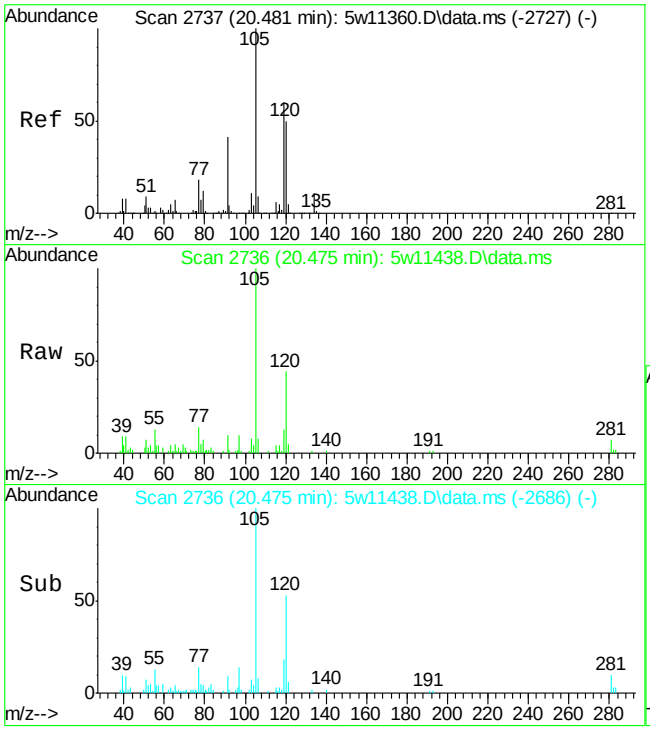


#91
1,3,5-Trimethylbenzene
Concen: 0.23 ppb(v)
RT: 19.918 min Scan# 2645
Delta R.T. -0.024 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion:105 Resp: 11687

Ion	Ratio	Lower	Upper
105	100		
120	47.5	34.2	63.4
119	15.1	8.8	16.4
77	14.8	9.0	16.6

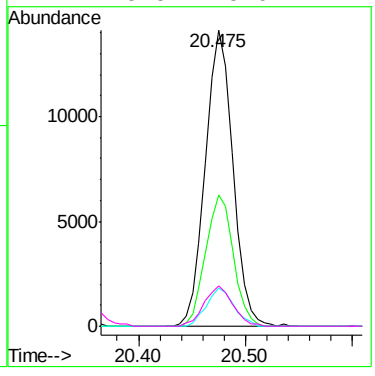


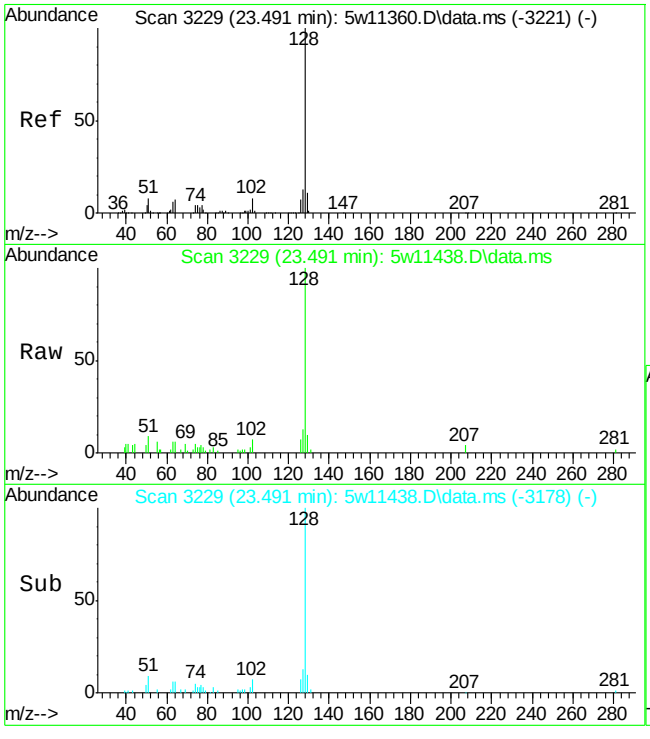


#94
1,2,4-Trimethylbenzene
Concen: 0.49 ppb(v)
RT: 20.475 min Scan# 2736
Delta R.T. -0.024 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion:105 Resp: 25144

Ion	Ratio	Lower	Upper
105	100		
120	44.5	35.0	65.0
119	12.9	45.2	84.0#
77	13.5	13.0	24.2

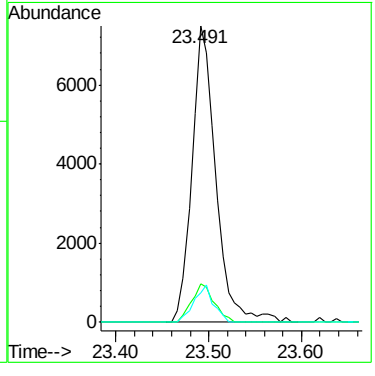




#104
Naphthalene
Concen: 0.32 ppb(v)
RT: 23.491 min Scan# 3229
Delta R.T. -0.018 min
Lab File: 5w11438.D
Acq: 8 May 2015 4:28 pm

Tgt Ion:128 Resp: 13343

Ion	Ratio	Lower	Upper
128	100		
127	13.0	8.8	16.4
129	9.9	7.6	14.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11470.D
Acq On : 9 May 2015 6:54 pm
Operator : mikel1
Sample : JB94245-1DUP
Misc : MS84959,v5w450,100,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 12 07:20:59 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

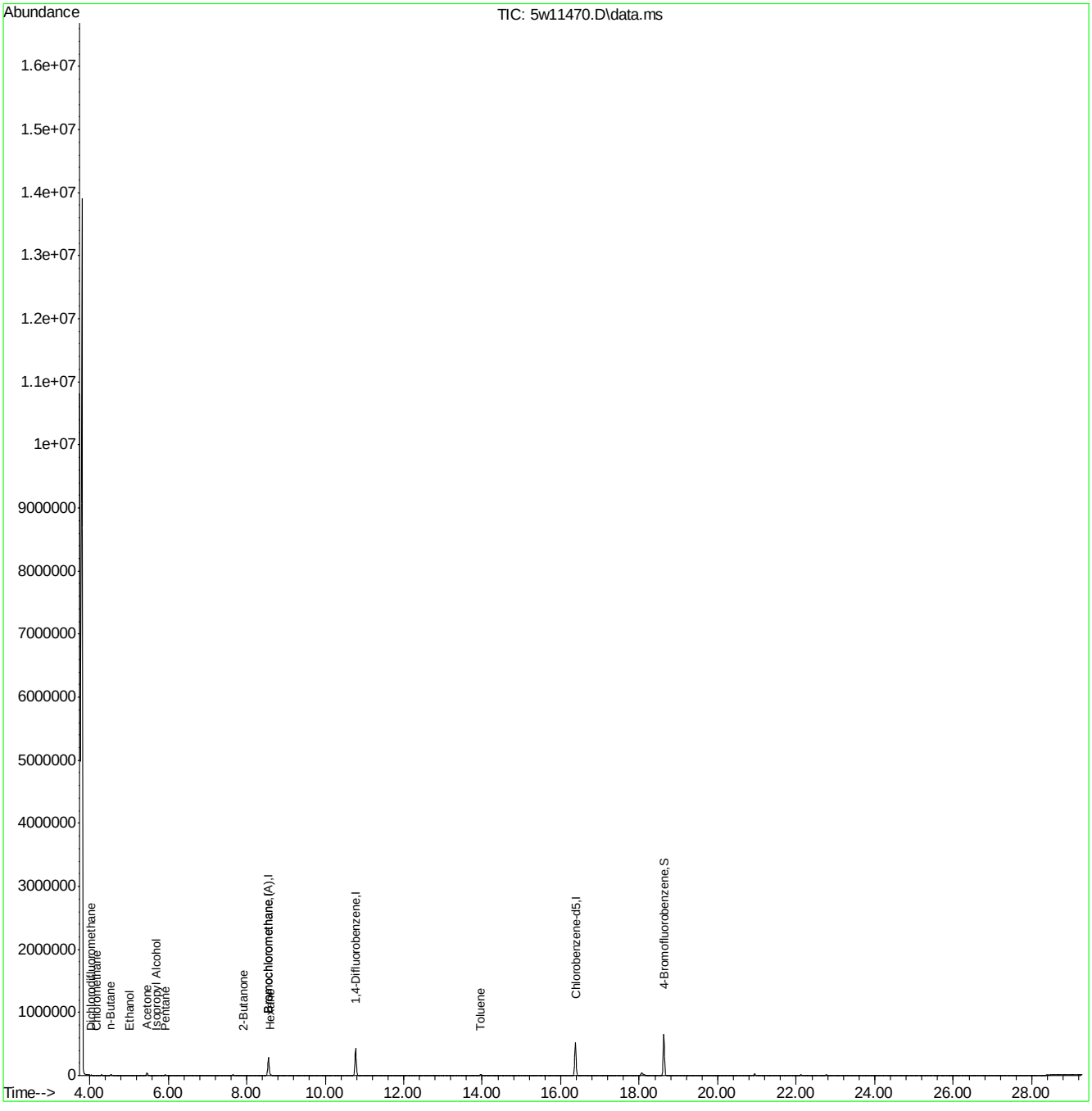
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.557	130	115316	10.00	ppb(v	#-0.02
53) 1,4-Difluorobenzene	10.778	114	417231	10.00	ppb(v	-0.02
75) Chlorobenzene-d5	16.376	82	227483	10.00	ppb(v	-0.03
106) Bromochloromethane (A)	8.557	130	115316	10.00	ppb(v	#-0.02
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.627	95	295157	9.95	ppb(v	-0.04
Spiked Amount 10.000	Range 65 - 128		Recovery = 99.50%			
Target Compounds						Qvalue
6) Dichlorodifluoromethane	4.036	85	3826	0.13	ppb(v	99
8) Chloromethane	4.183	50	1952	0.20	ppb(v	95
12) n-Butane	4.538	58	1645	1.00	ppb(v#	72
21) Acetone	5.456	58	9368	1.73	ppb(v#	52
22) Pentane	5.927	57	919	0.33	ppb(v	75
25) Isopropyl Alcohol	5.688	45	5576	0.26	ppb(v#	90
30) Ethanol	5.009	45	5578	1.02	ppb(v	98
38) 2-Butanone	7.927	72	1329	0.22	ppb(v	64
39) Hexane	8.600	57	6914	0.36	ppb(v#	41
66) Toluene	13.966	91	15600	0.36	ppb(v	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

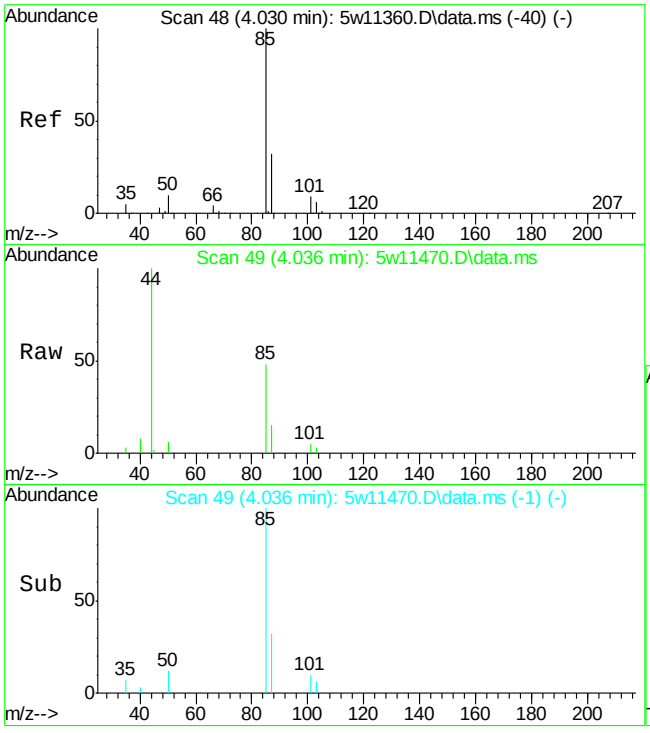
Data Path : C:\msdchem\1\DATA\
Data File : 5w11470.D
Acq On : 9 May 2015 6:54 pm
Operator : mikel1
Sample : JB94245-1DUP
Misc : MS84959,v5w450,100,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 12 07:20:59 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration



m5w419.M Tue May 12 07:52:46 2015 GCMS5W

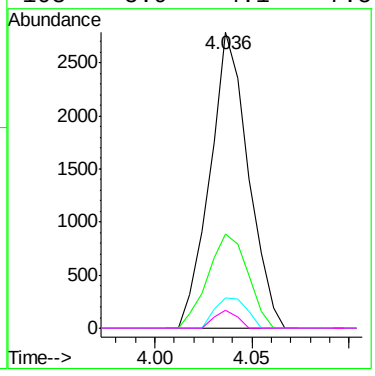
Page: 2

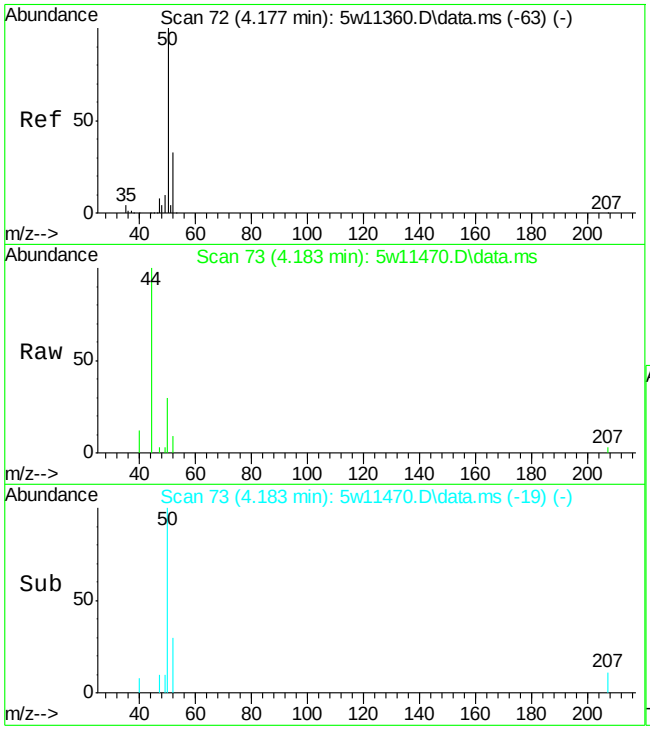


#6
Dichlorodifluoromethane
Concen: 0.13 ppb(v)
RT: 4.036 min Scan# 49
Delta R.T. -0.000 min
Lab File: 5w11470.D
Acq: 9 May 2015 6:54 pm

Tgt Ion: 85 Resp: 3826

Ion	Ratio	Lower	Upper
85	100		
87	31.9	22.7	42.1
101	10.1	6.0	11.2
103	5.9	4.1	7.5

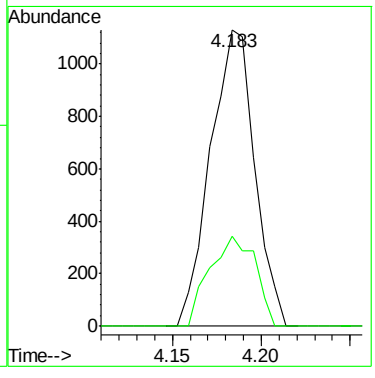




#8
Chloromethane
Concen: 0.20 ppb(v)
RT: 4.183 min Scan# 73
Delta R.T. -0.000 min
Lab File: 5w11470.D
Acq: 9 May 2015 6:54 pm

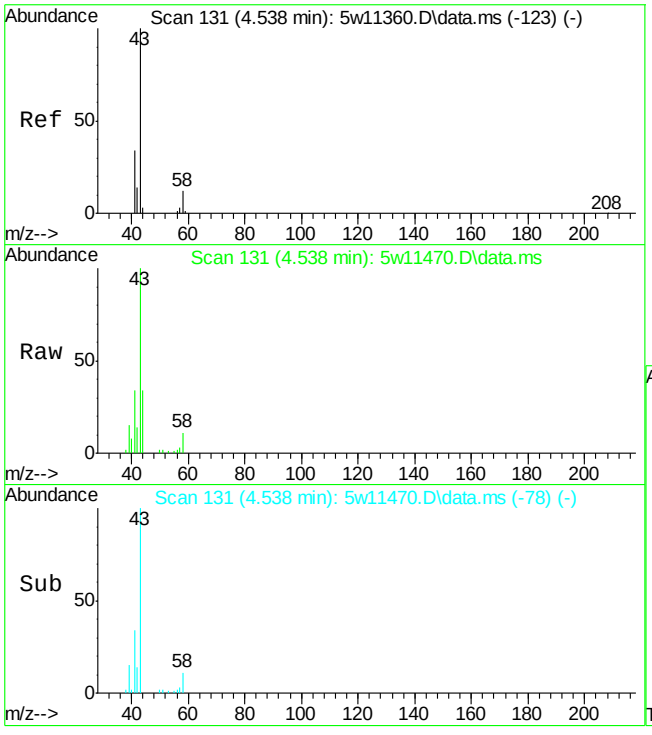
Tgt Ion: 50 Resp: 1952

Ion	Ratio	Lower	Upper
50	100		
52	30.2	23.2	43.0



7.4.2

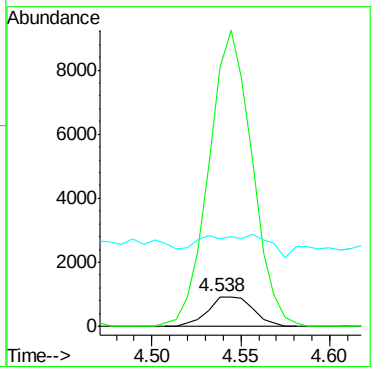
7

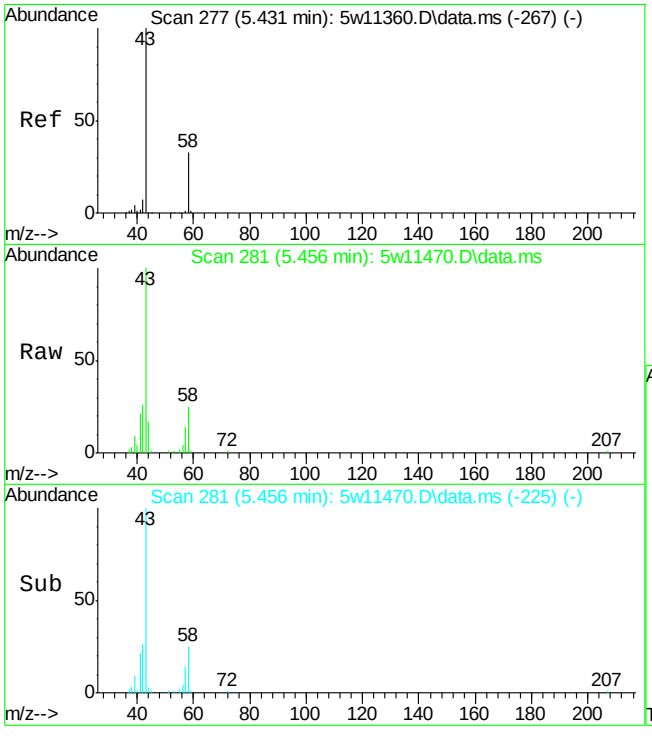


#12
n-Butane
Concen: 1.00 ppb(v)
RT: 4.538 min Scan# 131
Delta R.T. -0.006 min
Lab File: 5w11470.D
Acq: 9 May 2015 6:54 pm

Tgt Ion: 58 Resp: 1645

Ion	Ratio	Lower	Upper
58	100		
43	874.6	583.8	1084.2
44	296.4	25.6	47.6#

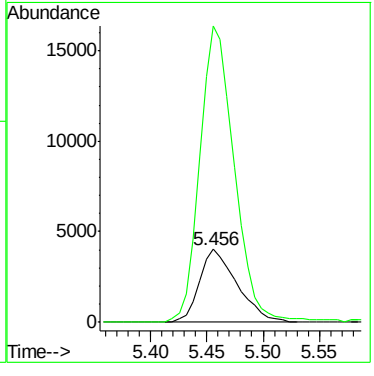




#21
Acetone
Concen: 1.73 ppb(v)
RT: 5.456 min Scan# 281
Delta R.T. 0.012 min
Lab File: 5w11470.D
Acq: 9 May 2015 6:54 pm

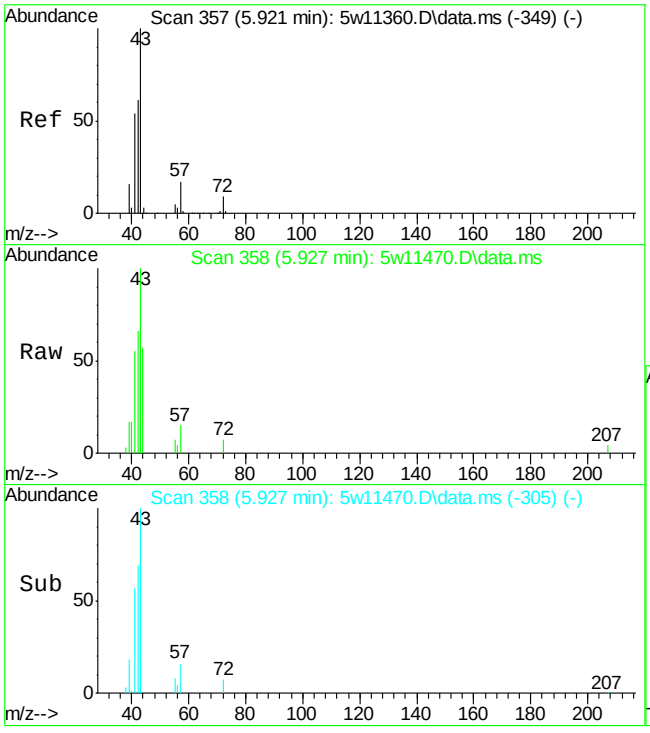
Tgt Ion: 58 Resp: 9368

Ion	Ratio	Lower	Upper
58	100		
43	408.1	217.8	404.6#



7.4.2

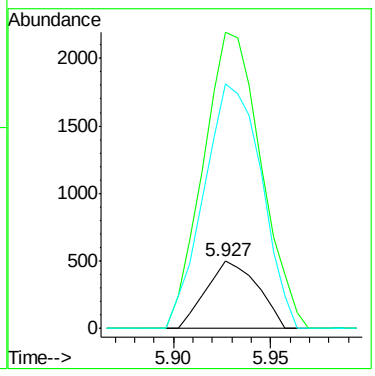
7

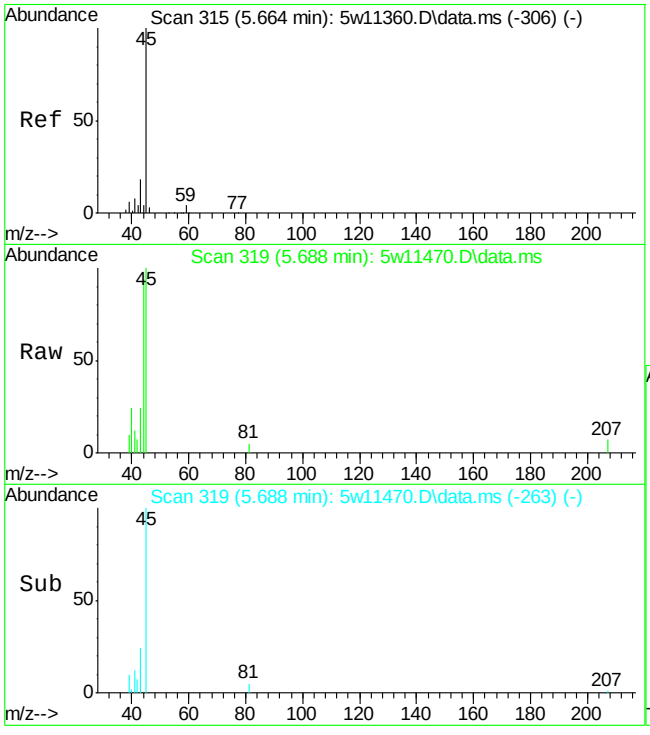


#22
Pentane
Concen: 0.33 ppb(v)
RT: 5.927 min Scan# 358
Delta R.T. -0.006 min
Lab File: 5w11470.D
Acq: 9 May 2015 6:54 pm

Tgt Ion: 57 Resp: 919

Ion	Ratio	Lower	Upper
57	100		
42	440.6	262.5	487.5
41	364.7	225.7	419.1

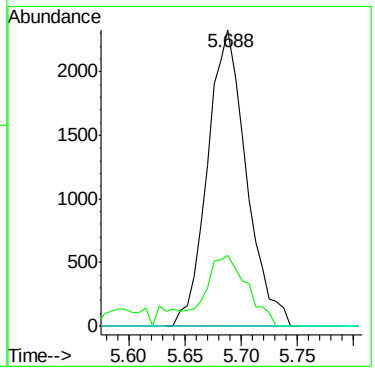




#25
Isopropyl Alcohol
Concen: 0.26 ppb(v)
RT: 5.688 min Scan# 319
Delta R.T. 0.012 min
Lab File: 5w11470.D
Acq: 9 May 2015 6:54 pm

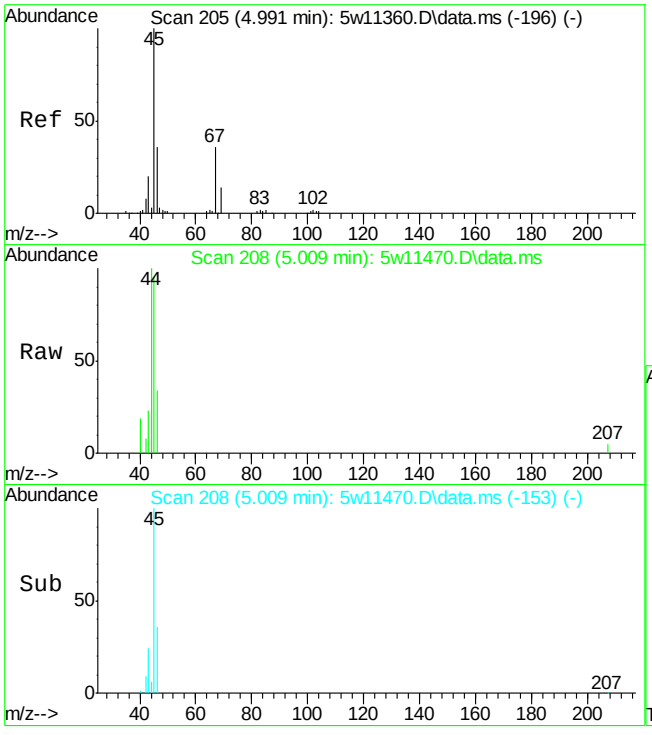
Tgt Ion: 45 Resp: 5576

Ion	Ratio	Lower	Upper
45	100		
43	24.0	14.0	26.0
59	0.0	3.5	6.5#



7.4.2

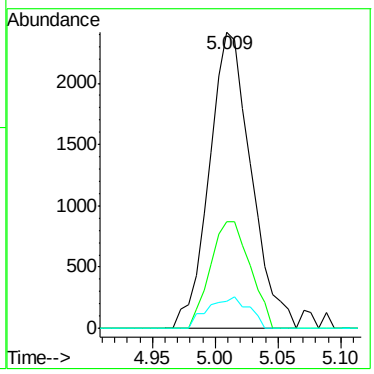
7

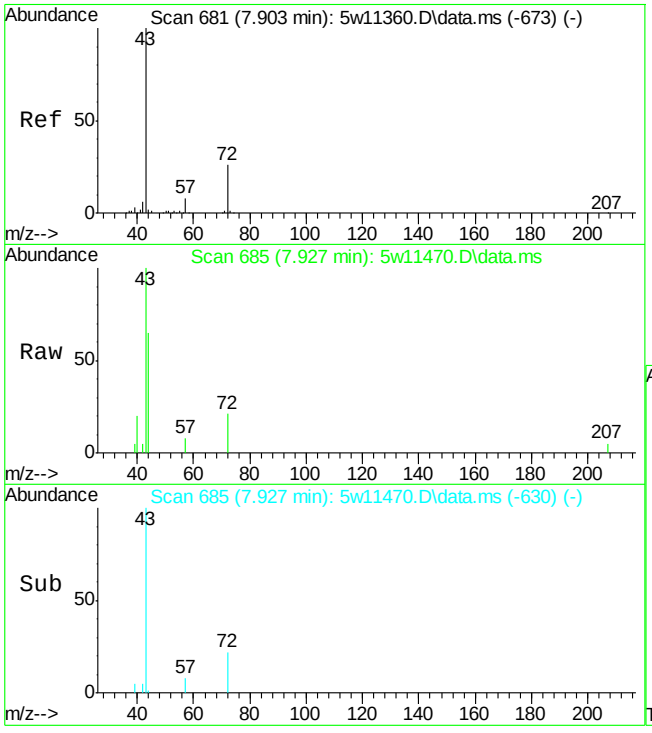


#30
Ethanol
Concen: 1.02 ppb(v)
RT: 5.009 min Scan# 208
Delta R.T. 0.006 min
Lab File: 5w11470.D
Acq: 9 May 2015 6:54 pm

Tgt Ion: 45 Resp: 5578

Ion	Ratio	Lower	Upper
45	100		
46	36.1	24.6	45.6
42	9.0	5.5	10.1

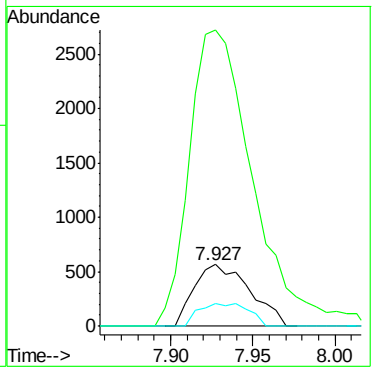




#38
2-Butanone
Concen: 0.22 ppb(v)
RT: 7.927 min Scan# 685
Delta R.T. 0.006 min
Lab File: 5w11470.D
Acq: 9 May 2015 6:54 pm

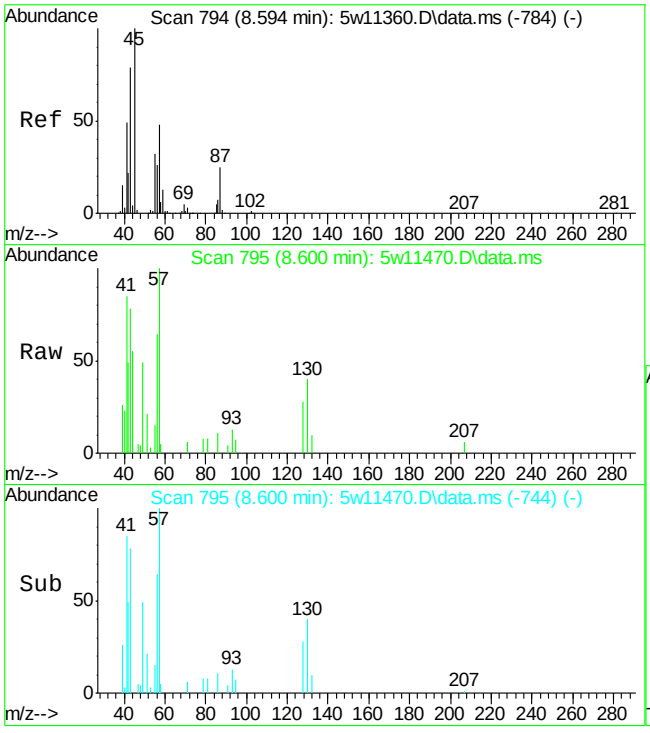
Tgt Ion: 72 Resp: 1329

Ion	Ratio	Lower	Upper
72	100		
43	480.9	274.1	508.9
57	36.2	22.1	41.1



7.4.2

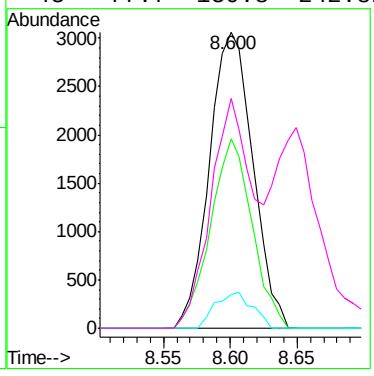
7

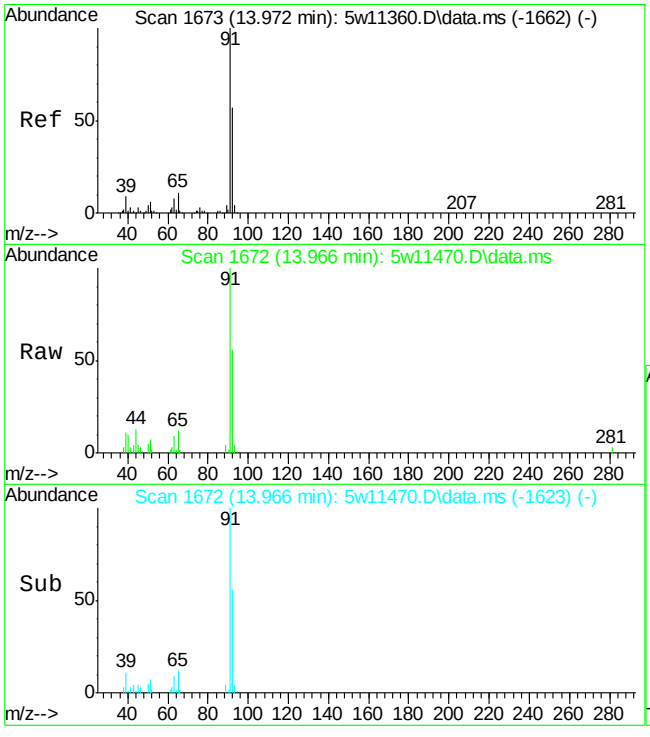


#39
Hexane
Concen: 0.36 ppb(v)
RT: 8.600 min Scan# 795
Delta R.T. -0.018 min
Lab File: 5w11470.D
Acq: 9 May 2015 6:54 pm

Tgt Ion: 57 Resp: 6914

Ion	Ratio	Lower	Upper
57	100		
56	64.1	37.4	69.4
86	11.4	10.4	19.2
43	77.7	130.8	242.8#

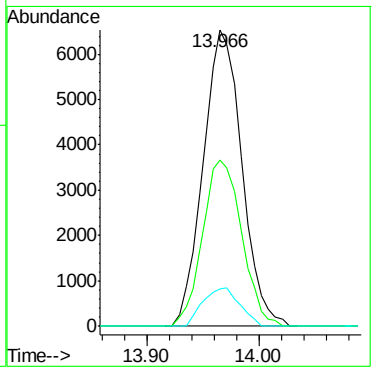




#66
Toluene
Concen: 0.36 ppb(v)
RT: 13.966 min Scan# 1672
Delta R.T. -0.031 min
Lab File: 5w11470.D
Acq: 9 May 2015 6:54 pm

Tgt Ion: 91 Resp: 15600

Ion	Ratio	Lower	Upper
91	100		
92	56.0	40.3	74.9
65	12.5	7.6	14.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11489.D
Acq On : 11 May 2015 3:52 pm
Operator : mikel1
Sample : JB94388-4DUP
Misc : MS84912,v5w451,20,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 12 06:55:55 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

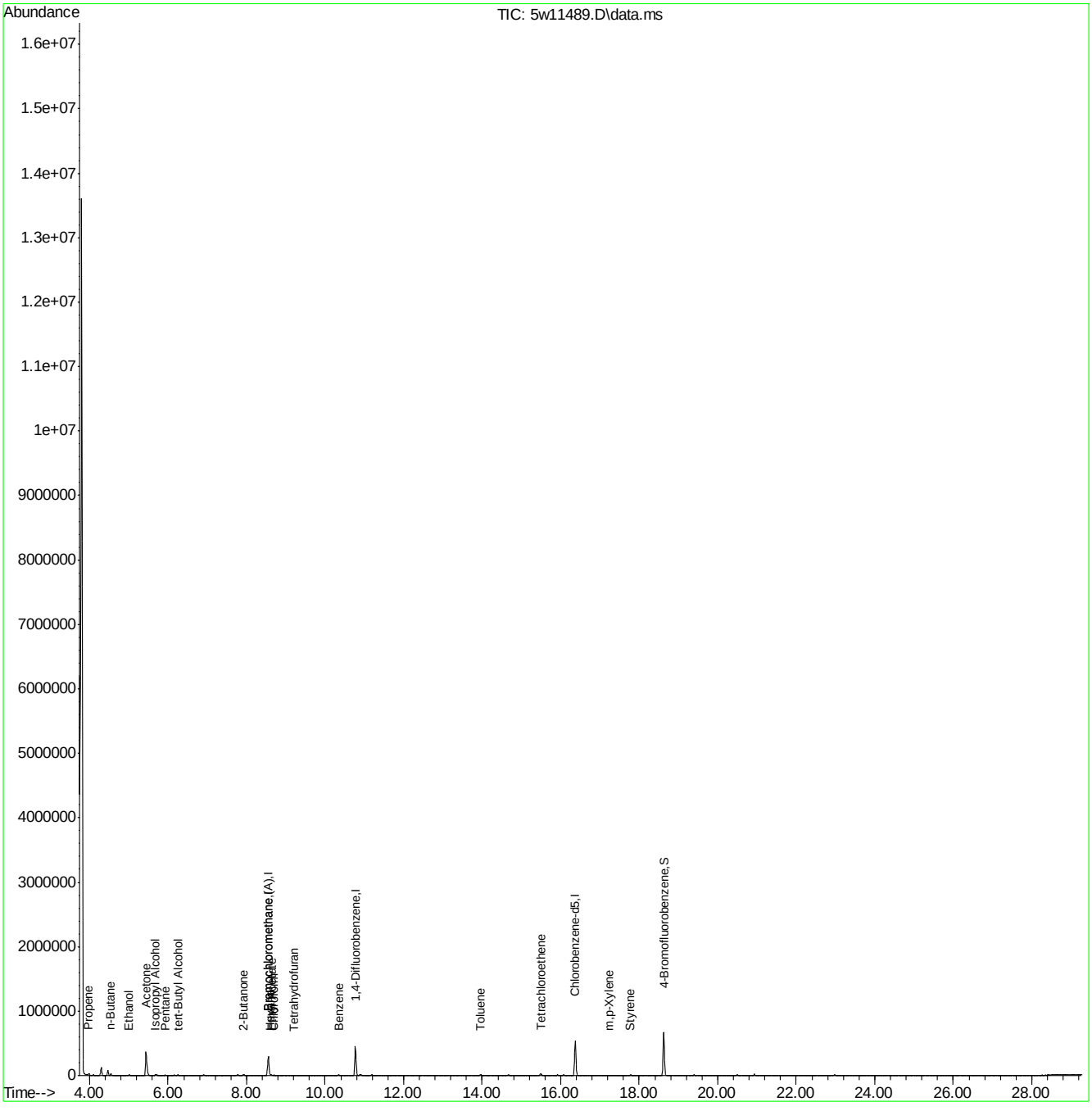
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.552	130	126918	10.00	ppb(v	#-0.02
53) 1,4-Difluorobenzene	10.772	114	448135	10.00	ppb(v	-0.03
75) Chlorobenzene-d5	16.370	82	235256	10.00	ppb(v	-0.04
106) Bromochloromethane (A)	8.552	130	126918	10.00	ppb(v	#-0.02
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.627	95	305239	9.95	ppb(v	-0.04
Spiked Amount 10.000	Range 65 - 128		Recovery = 99.50%			
Target Compounds						Qvalue
5) Propene	3.969	41	13248	1.45	ppb(v	95
12) n-Butane	4.538	58	1820	1.00	ppb(v#	61
21) Acetone	5.438	58	159409	26.80	ppb(v	94
22) Pentane	5.927	57	740	0.24	ppb(v	96
25) Isopropyl Alcohol	5.670	45	9948	0.42	ppb(v#	86
30) Ethanol	5.003	45	10046	1.67	ppb(v	97
34) tert-Butyl Alcohol	6.251	59	7806	0.26	ppb(v#	84
38) 2-Butanone	7.915	72	4958	0.75	ppb(v	86
39) Hexane	8.601	57	5721	0.27	ppb(v#	39
42) Ethyl Acetate	8.637	61	1813	0.39	ppb(v	71
44) Chloroform	8.692	83	5929	0.21	ppb(v	95
46) Tetrahydrofuran	9.212	72	521	0.08	ppb(v#	71
49) Benzene	10.350	78	7441	0.18	ppb(v	93
66) Toluene	13.960	91	11988	0.26	ppb(v	97
71) Tetrachloroethene	15.489	166	12183	0.53	ppb(v	97
78) m,p-Xylene	17.233	91	7601	0.17	ppb(v	97
79) Styrene	17.777	104	9111	0.29	ppb(v	96

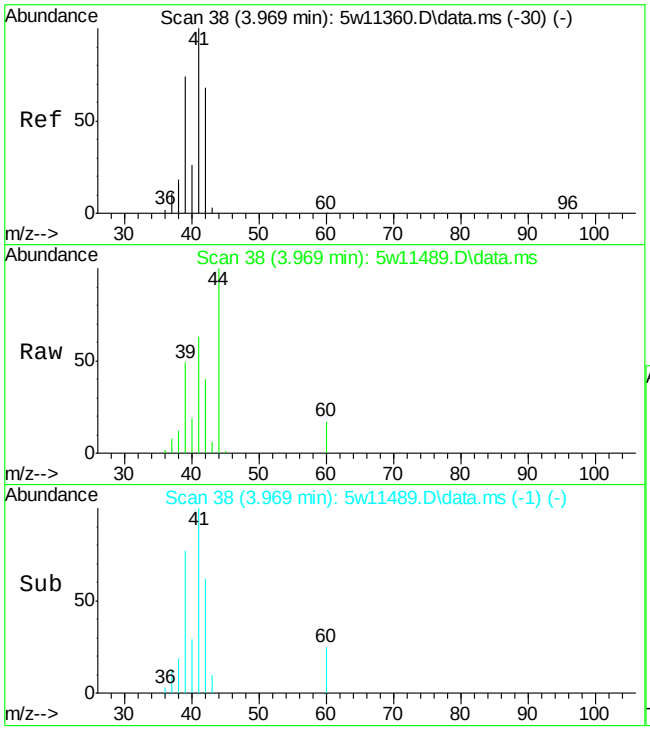
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11489.D
Acq On : 11 May 2015 3:52 pm
Operator : mikel1
Sample : JB94388-4DUP
Misc : MS84912,v5w451,20,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 12 06:55:55 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

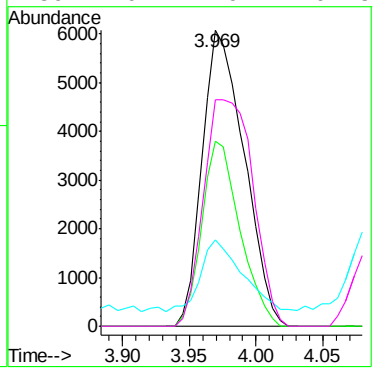


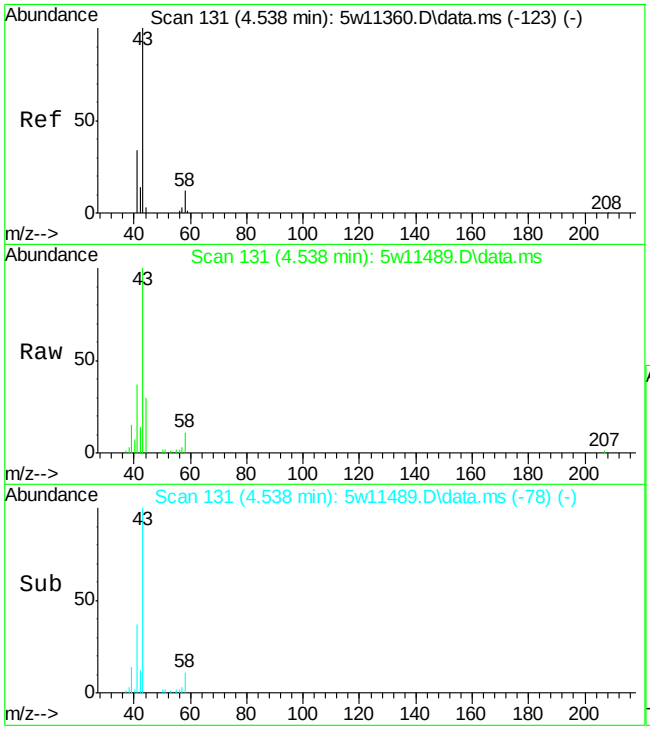


#5
Propene
Concen: 1.45 ppb(v)
RT: 3.969 min Scan# 38
Delta R.T. 0.000 min
Lab File: 5w11489.D
Acq: 11 May 2015 3:52 pm

Tgt Ion: 41 Resp: 13248

Ion	Ratio	Lower	Upper
41	100		
42	62.4	45.0	83.6
40	29.3	17.9	33.3
39	76.7	49.7	92.3

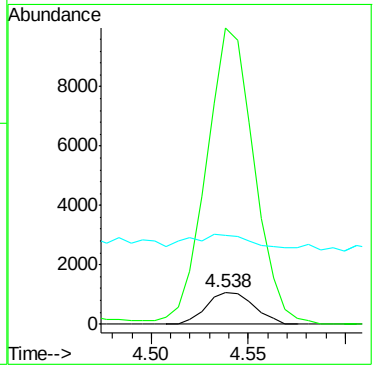


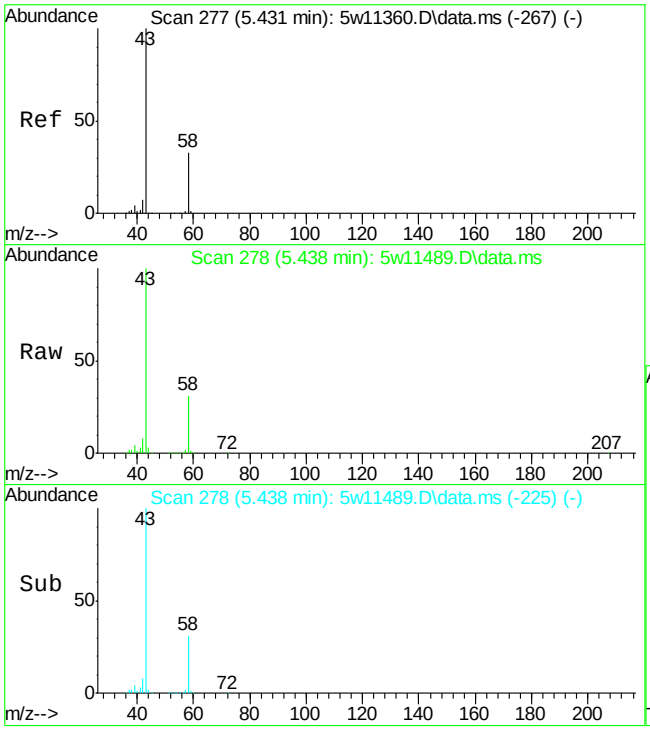


#12
n-Butane
Concen: 1.00 ppb(v)
RT: 4.538 min Scan# 131
Delta R.T. -0.006 min
Lab File: 5w11489.D
Acq: 11 May 2015 3:52 pm

Tgt Ion: 58 Resp: 1820

Ion	Ratio	Lower	Upper
58	100		
43	925.1	583.8	1084.2
44	278.2	25.6	47.6#

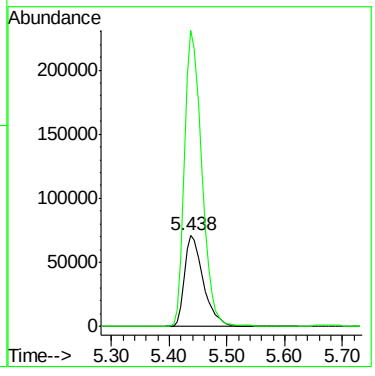


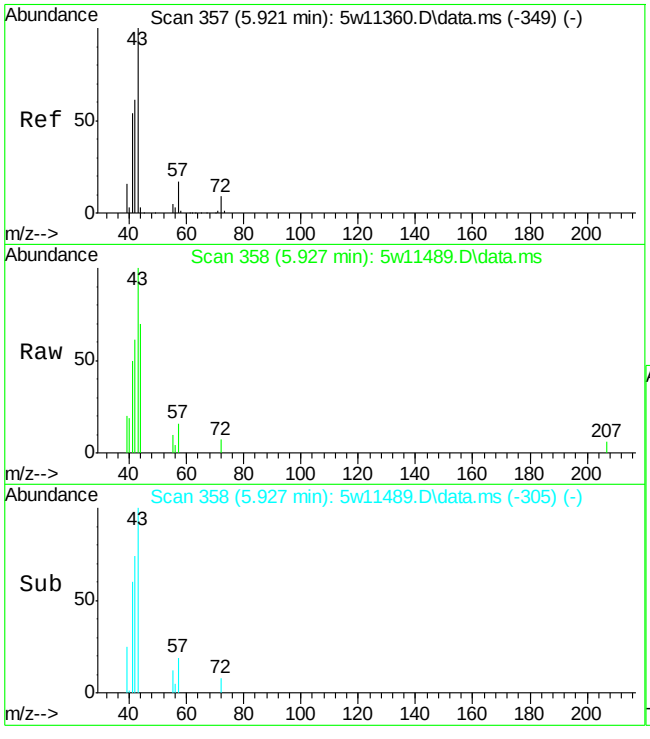


#21
Acetone
Concen: 26.80 ppb(v)
RT: 5.438 min Scan# 278
Delta R.T. -0.006 min
Lab File: 5w11489.D
Acq: 11 May 2015 3:52 pm

Tgt Ion: 58 Resp: 159409

Ion	Ratio	Lower	Upper
58	100		
43	323.6	217.8	404.6

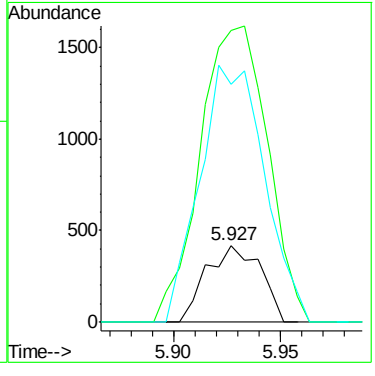


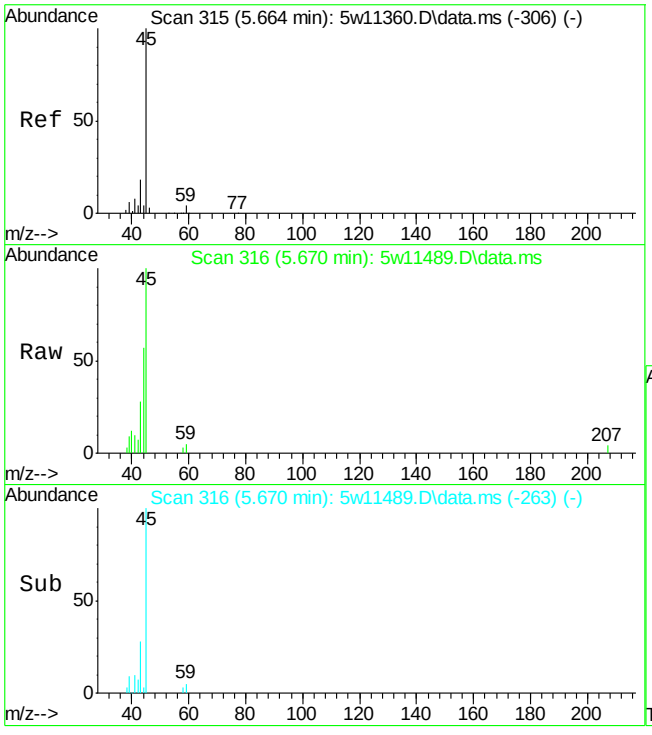


#22
Pentane
Concen: 0.24 ppb(v)
RT: 5.927 min Scan# 358
Delta R.T. -0.006 min
Lab File: 5w11489.D
Acq: 11 May 2015 3:52 pm

Tgt Ion: 57 Resp: 740

Ion	Ratio	Lower	Upper
57	100		
42	381.5	262.5	487.5
41	312.2	225.7	419.1

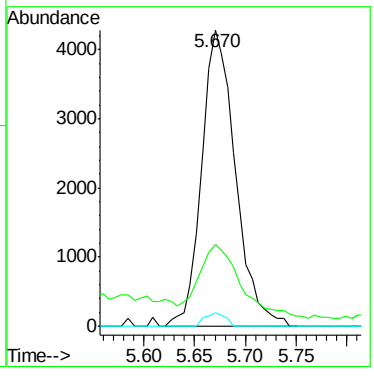


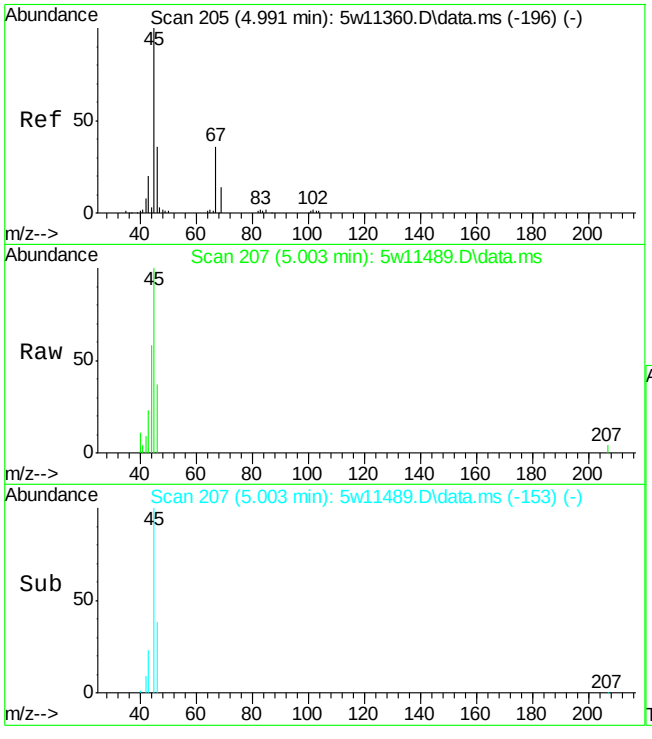


#25
Isopropyl Alcohol
Concen: 0.42 ppb(v)
RT: 5.670 min Scan# 316
Delta R.T. -0.006 min
Lab File: 5w11489.D
Acq: 11 May 2015 3:52 pm

Tgt Ion: 45 Resp: 9948

Ion	Ratio	Lower	Upper
45	100		
43	27.8	14.0	26.0#
59	4.7	3.5	6.5

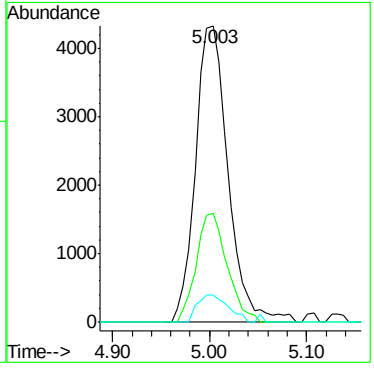




#30
Ethanol
Concen: 1.67 ppb(v)
RT: 5.003 min Scan# 207
Delta R.T. 0.000 min
Lab File: 5w11489.D
Acq: 11 May 2015 3:52 pm

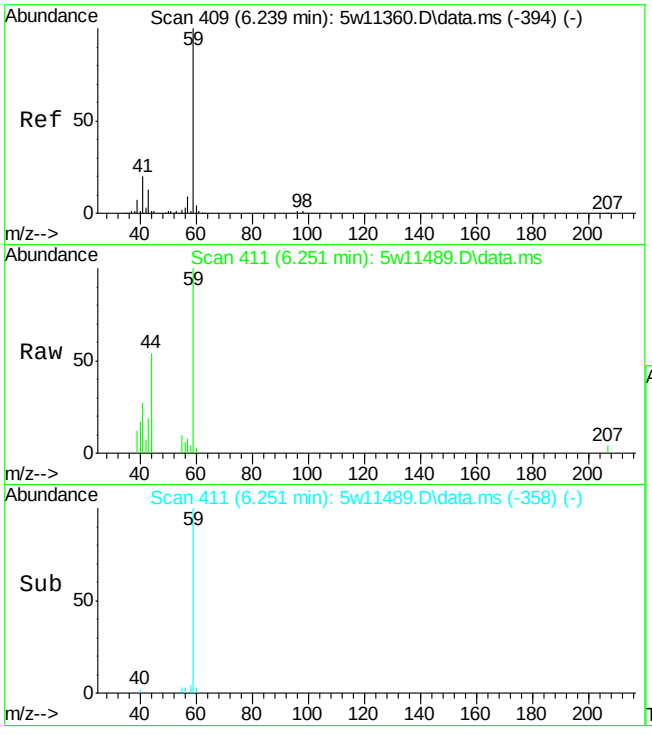
Tgt Ion: 45 Resp: 10046

Ion	Ratio	Lower	Upper
45	100		
46	36.8	24.6	45.6
42	9.2	5.5	10.1



7.4.3

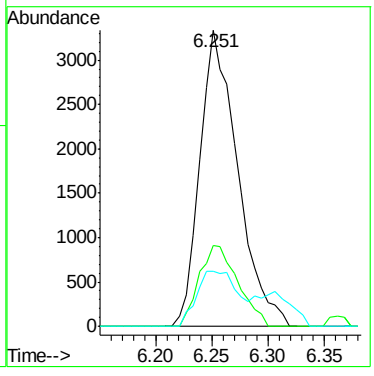
7

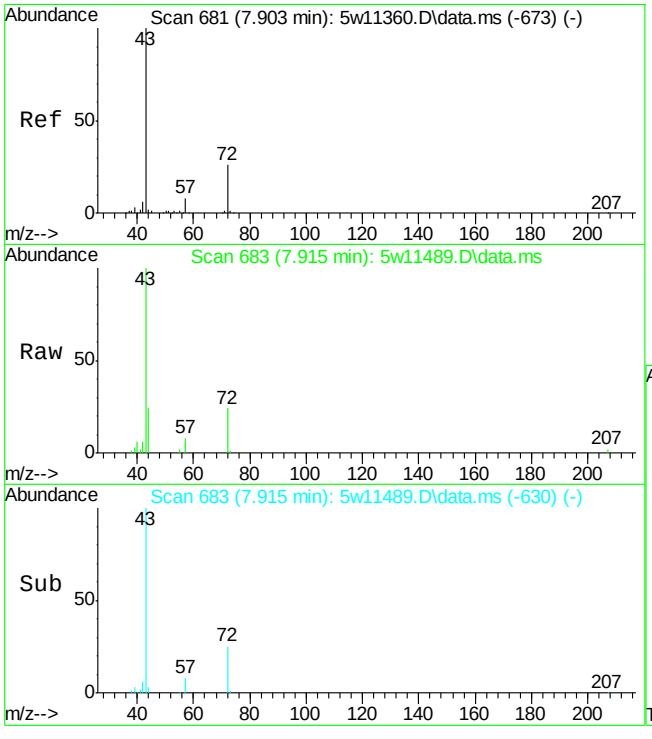


#34
tert-Butyl Alcohol
Concen: 0.26 ppb(v)
RT: 6.251 min Scan# 411
Delta R.T. -0.006 min
Lab File: 5w11489.D
Acq: 11 May 2015 3:52 pm

Tgt Ion: 59 Resp: 7806

Ion	Ratio	Lower	Upper
59	100		
41	27.5	13.4	24.8#
43	18.5	9.3	17.3#

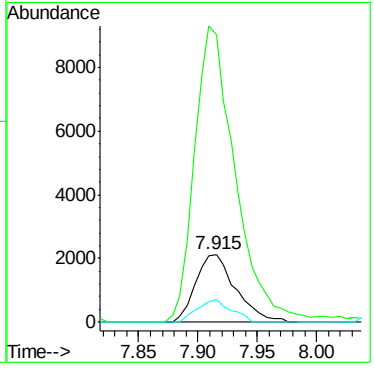




#38
2-Butanone
Concen: 0.75 ppb(v)
RT: 7.915 min Scan# 683
Delta R.T. -0.006 min
Lab File: 5w11489.D
Acq: 11 May 2015 3:52 pm

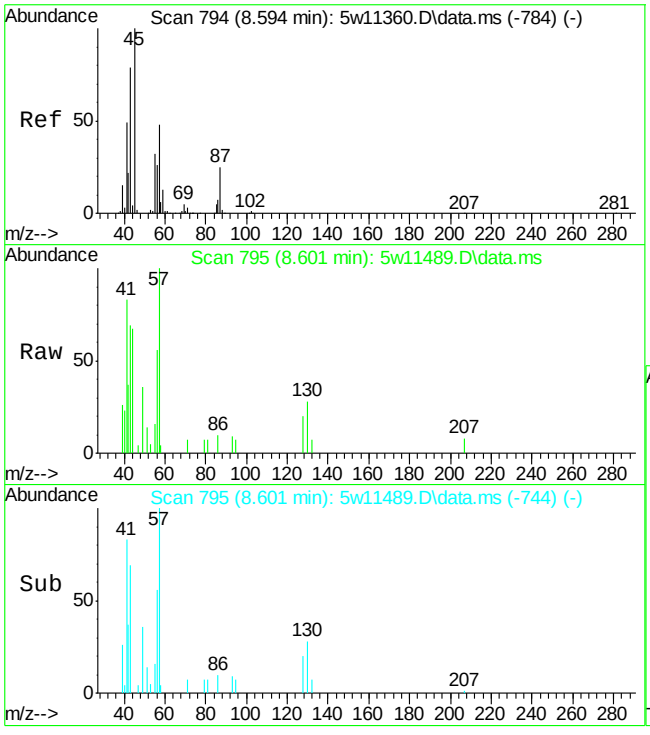
Tgt Ion: 72 Resp: 4958

Ion	Ratio	Lower	Upper
72	100		
43	425.3	274.1	508.9
57	33.0	22.1	41.1



7.4.3

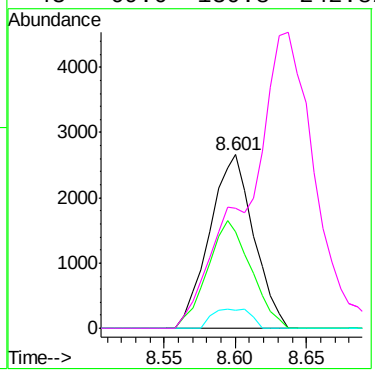
7

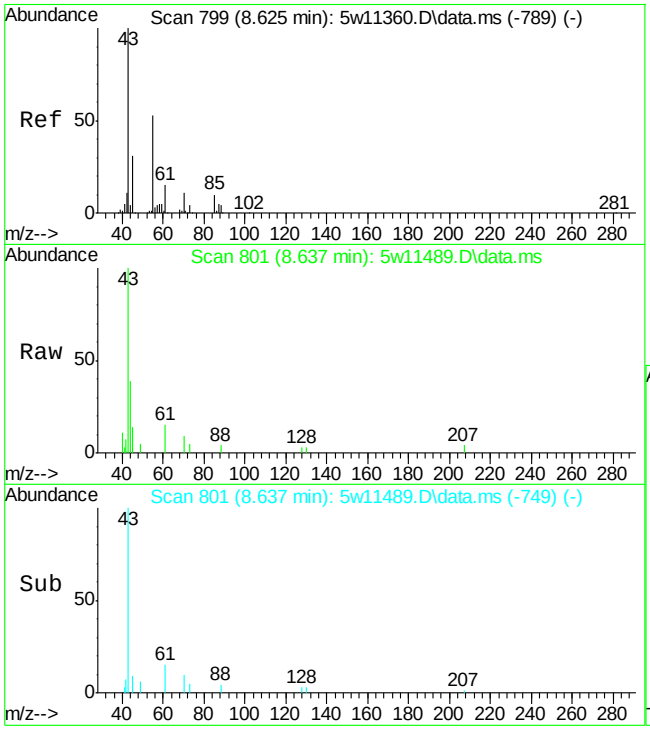


#39
Hexane
Concen: 0.27 ppb(v)
RT: 8.601 min Scan# 795
Delta R.T. -0.018 min
Lab File: 5w11489.D
Acq: 11 May 2015 3:52 pm

Tgt Ion: 57 Resp: 5721

Ion	Ratio	Lower	Upper
57	100		
56	55.9	37.4	69.4
86	10.4	10.4	19.2
43	69.0	130.8	242.8#

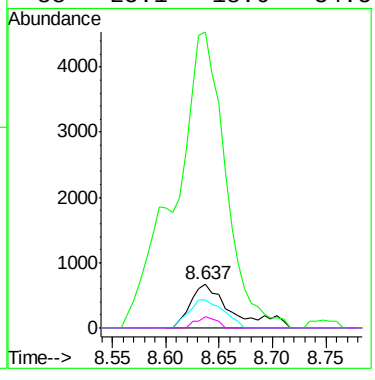




#42
Ethyl Acetate
Concen: 0.39 ppb(v)
RT: 8.637 min Scan# 801
Delta R.T. -0.012 min
Lab File: 5w11489.D
Acq: 11 May 2015 3:52 pm

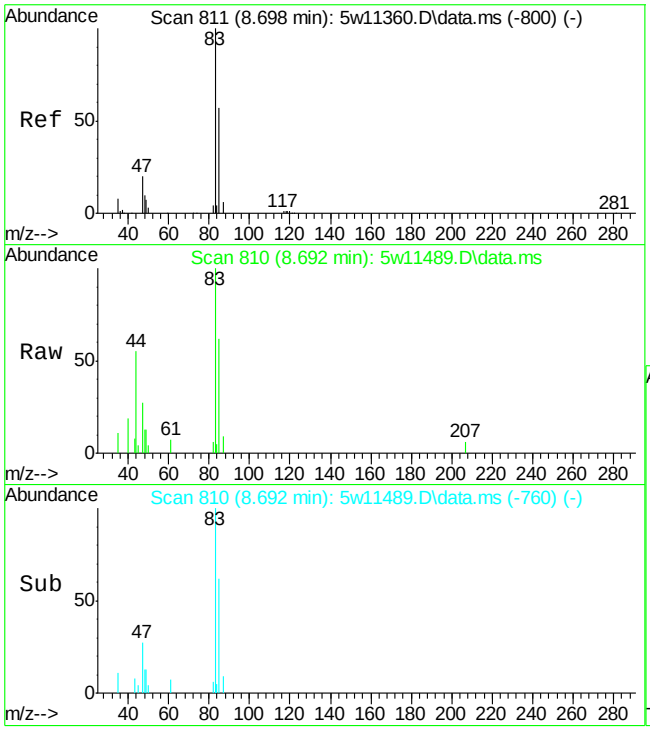
Tgt Ion: 61 Resp: 1813

Ion	Ratio	Lower	Upper
61	100		
43	675.1	556.0	1032.6
70	63.7	50.3	93.3
88	25.1	18.6	34.5



7.4.3

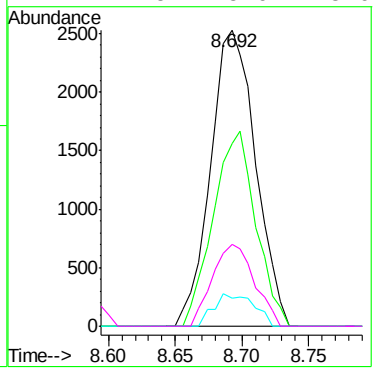
7

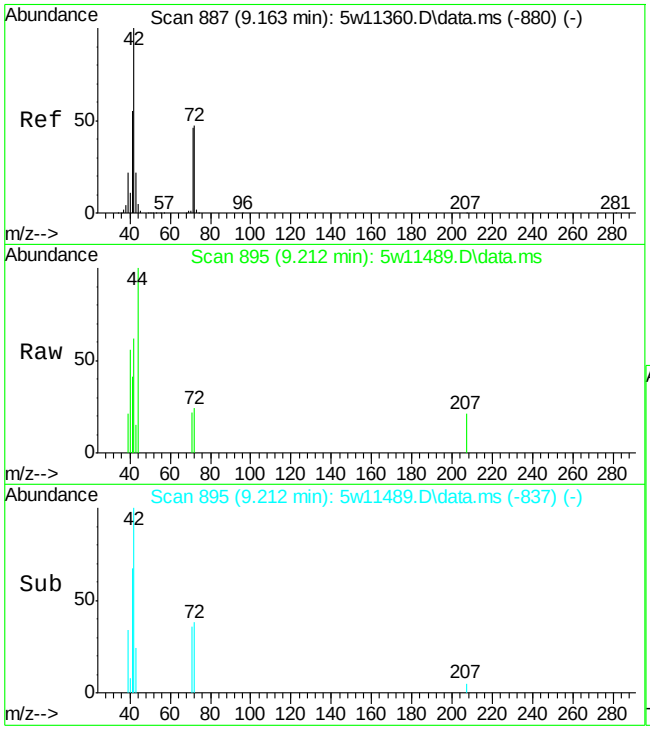


#44
Chloroform
Concen: 0.21 ppb(v)
RT: 8.692 min Scan# 810
Delta R.T. -0.024 min
Lab File: 5w11489.D
Acq: 11 May 2015 3:52 pm

Tgt Ion: 83 Resp: 5929

Ion	Ratio	Lower	Upper
83	100		
85	61.6	45.0	83.6
87	9.5	7.3	13.5
47	27.5	15.0	28.0

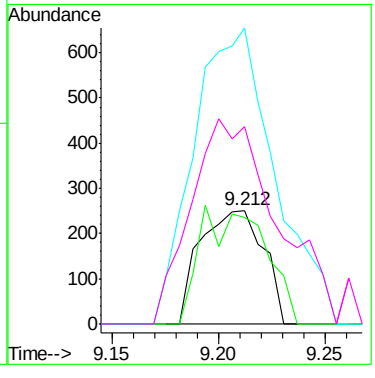




#46
Tetrahydrofuran
Concen: 0.08 ppb(v)
RT: 9.212 min Scan# 895
Delta R.T. 0.024 min
Lab File: 5w11489.D
Acq: 11 May 2015 3:52 pm

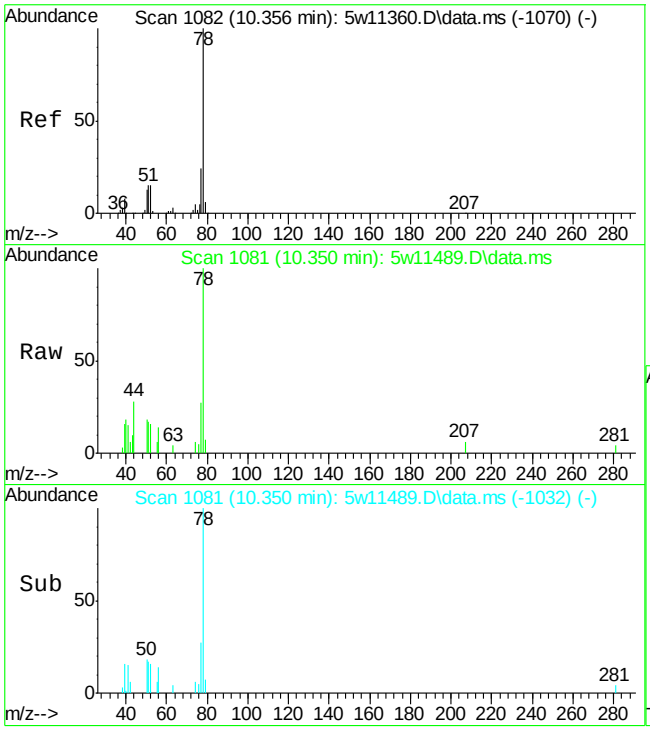
Tgt Ion: 72 Resp: 521

Ion	Ratio	Lower	Upper
72	100		
71	94.0	68.5	127.3
42	261.0	151.3	281.1
41	174.1	83.0	154.1#



7.4.3

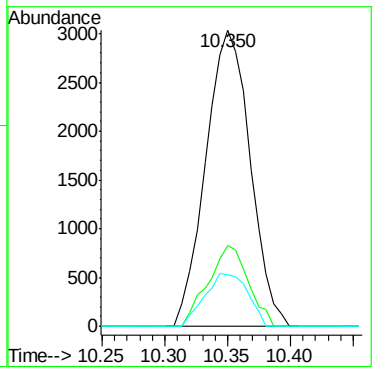
7

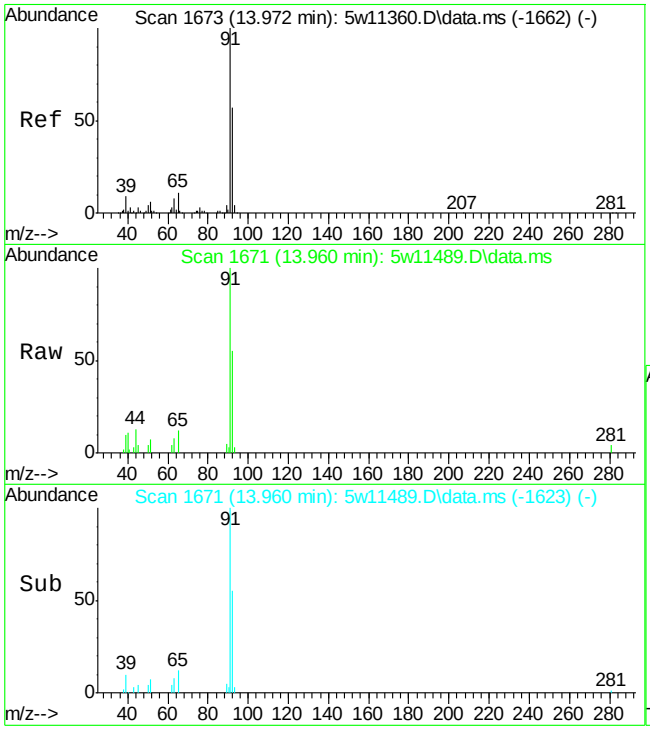


#49
Benzene
Concen: 0.18 ppb(v)
RT: 10.350 min Scan# 1081
Delta R.T. -0.030 min
Lab File: 5w11489.D
Acq: 11 May 2015 3:52 pm

Tgt Ion: 78 Resp: 7441

Ion	Ratio	Lower	Upper
78	100		
77	27.3	16.6	30.8
51	17.3	10.6	19.6

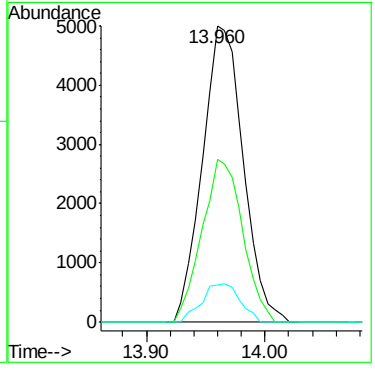




#66
Toluene
Concen: 0.26 ppb(v)
RT: 13.960 min Scan# 1671
Delta R.T. -0.037 min
Lab File: 5w11489.D
Acq: 11 May 2015 3:52 pm

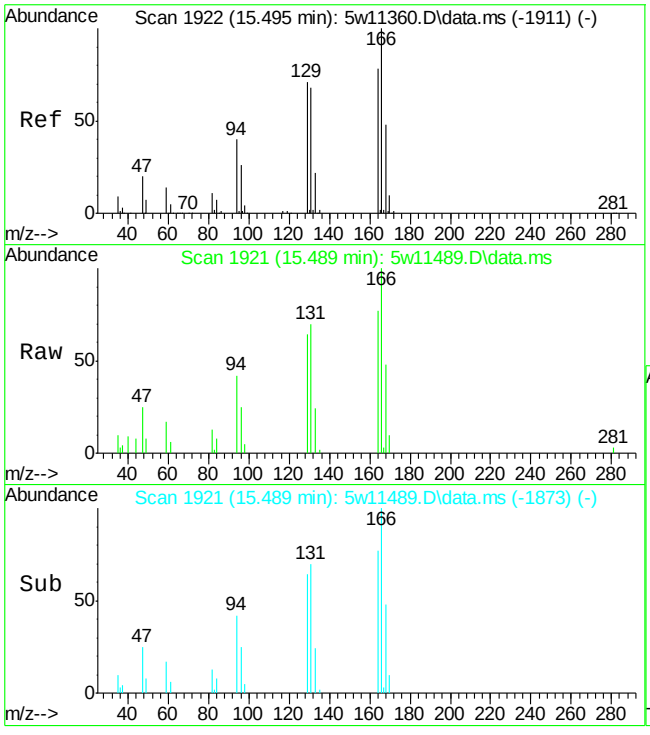
Tgt Ion: 91 Resp: 11988

Ion	Ratio	Lower	Upper
91	100		
92	55.1	40.3	74.9
65	12.4	7.6	14.0



7.4.3

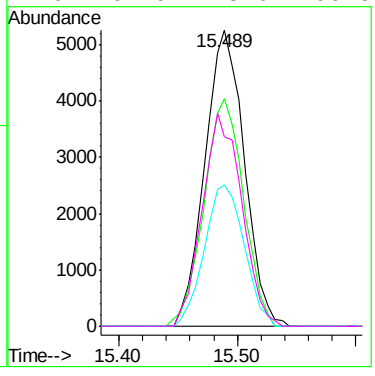
7

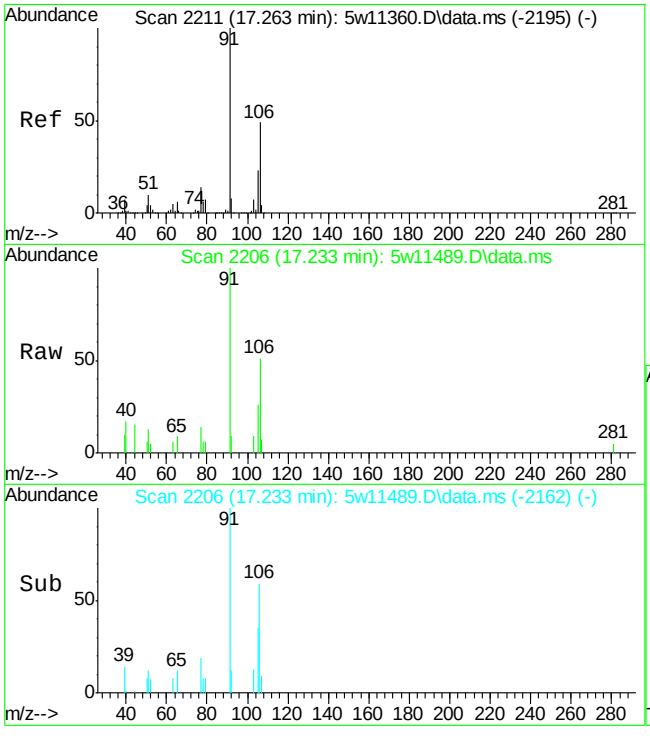


#71
Tetrachloroethene
Concen: 0.53 ppb(v)
RT: 15.489 min Scan# 1921
Delta R.T. -0.037 min
Lab File: 5w11489.D
Acq: 11 May 2015 3:52 pm

Tgt Ion:166 Resp: 12183

Ion	Ratio	Lower	Upper
166	100		
164	77.0	54.3	100.9
168	47.6	33.9	62.9
129	64.0	48.6	90.3

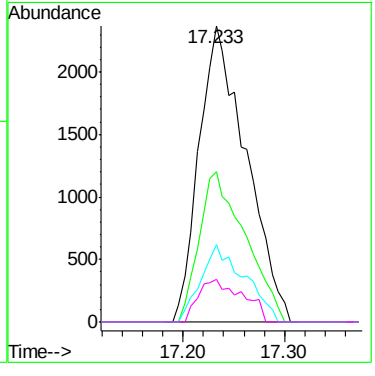


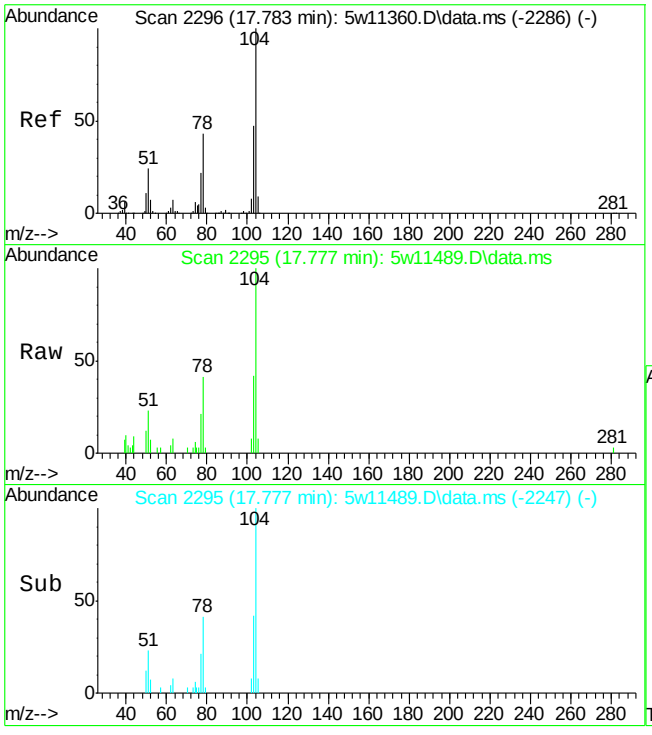


#78
m,p-Xylene
Concen: 0.17 ppb(v)
RT: 17.233 min Scan# 2206
Delta R.T. -0.061 min
Lab File: 5w11489.D
Acq: 11 May 2015 3:52 pm

Tgt Ion: 91 Resp: 7601

Ion	Ratio	Lower	Upper
91	100		
106	50.9	35.1	65.1
105	26.1	16.0	29.8
77	14.3	9.4	17.4

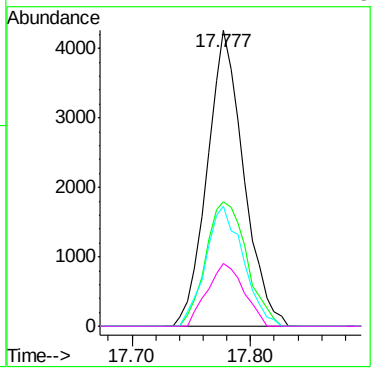




#79
Styrene
Concen: 0.29 ppb(v)
RT: 17.777 min Scan# 2295
Delta R.T. -0.037 min
Lab File: 5w11489.D
Acq: 11 May 2015 3:52 pm

Tgt Ion:104 Resp: 9111

Ion	Ratio	Lower	Upper
104	100		
103	41.9	33.2	61.6
78	40.6	29.1	54.1
77	21.1	14.7	27.3



7.4.3

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11513.D
Acq On : 12 May 2015 2:36 pm
Operator : mikel1
Sample : JB94453-1DUP
Misc : MS84958,v5w452,400,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 07:38:51 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

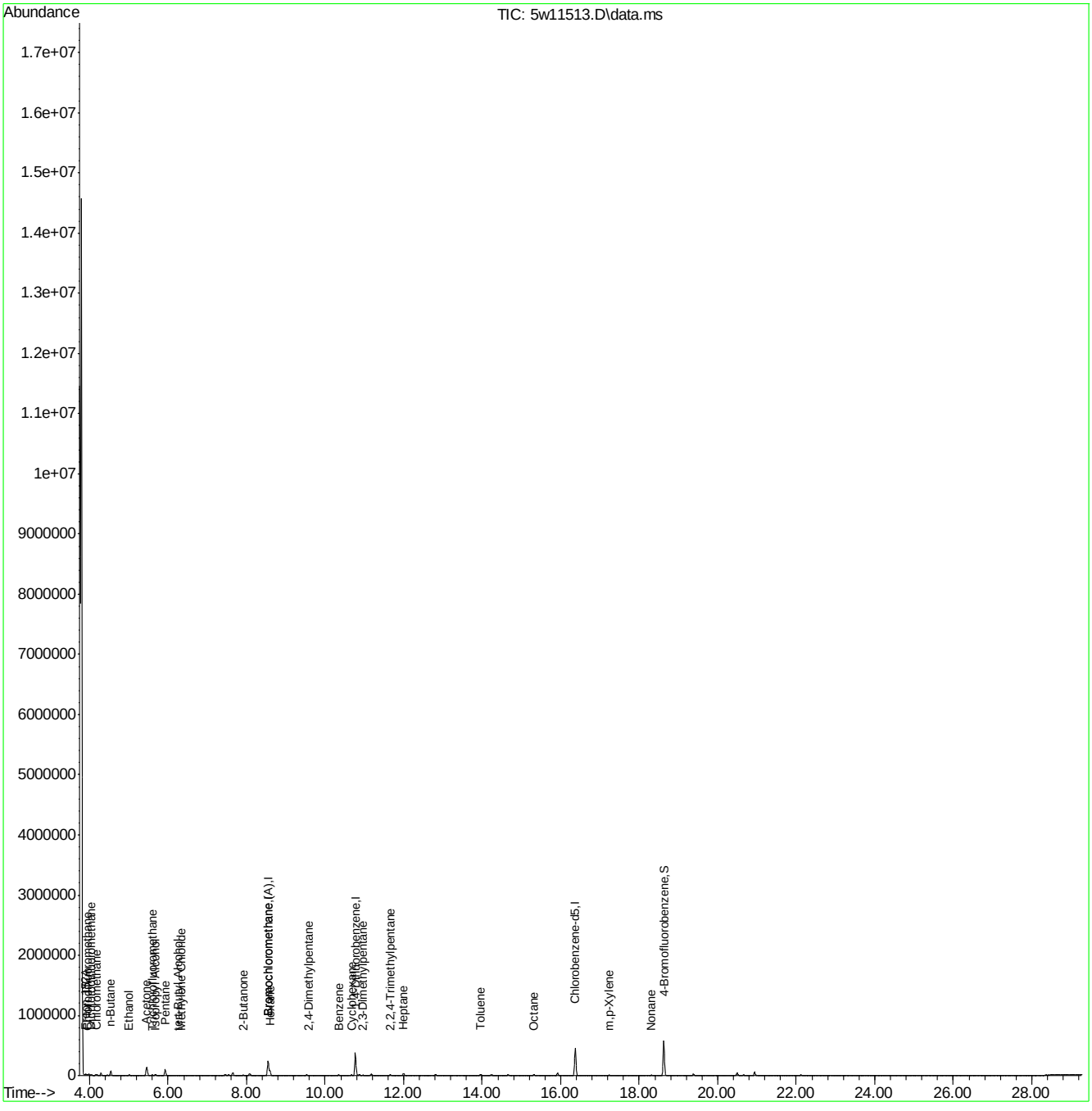
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.545	130	102240	10.00	ppb(v	#-0.03
53) 1,4-Difluorobenzene	10.772	114	364083	10.00	ppb(v	-0.03
75) Chlorobenzene-d5	16.370	82	199967	10.00	ppb(v	-0.04
106) Bromochloromethane (A)	8.545	130	102240	10.00	ppb(v	#-0.03
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.627	95	257239	9.86	ppb(v	-0.04
Spiked Amount 10.000	Range 65 - 128		Recovery	=	98.60%	
Target Compounds						Qvalue
3) Freon 152A	3.902	65	6428	1.02	ppb(v	91
4) Chlorodifluoromethane	3.939	67	1509	0.63	ppb(v#	1
6) Dichlorodifluoromethane	4.037	85	15481	0.59	ppb(v	98
8) Chloromethane	4.177	50	7968	0.93	ppb(v	94
12) n-Butane	4.538	58	6834	4.67	ppb(v#	71
20) Trichlorofluoromethane	5.597	101	7407	0.29	ppb(v	99
21) Acetone	5.444	58	32406	6.76	ppb(v#	49
22) Pentane	5.927	57	10629	4.33	ppb(v	67
25) Isopropyl Alcohol	5.670	45	22144	1.17	ppb(v	94
28) Methylene Chloride	6.319	84	2430	0.26	ppb(v	90
30) Ethanol	4.997	45	9869	2.04	ppb(v#	97
34) tert-Butyl Alcohol	6.251	59	7403	0.31	ppb(v#	79
38) 2-Butanone	7.909	72	2749	0.52	ppb(v	92
39) Hexane	8.594	57	45043	2.63	ppb(v#	39
45) 2,4-Dimethylpentane	9.592	57	1867	0.10	ppb(v	86
49) Benzene	10.344	78	8326	0.25	ppb(v	99
51) Cyclohexane	10.674	56	5018	0.31	ppb(v	96
52) 2,3-Dimethylpentane	10.950	71	1422	0.21	ppb(v#	97
54) 2,2,4-Trimethylpentane	11.659	57	9894	0.20	ppb(v#	67
55) Heptane	11.996	71	7651	0.79	ppb(v	90
66) Toluene	13.966	91	19810	0.52	ppb(v	98
73) Octane	15.318	43	7459	0.32	ppb(v	97
78) m,p-Xylene	17.233	91	8900	0.23	ppb(v	97
80) Nonane	18.315	43	4019	0.16	ppb(v#	96

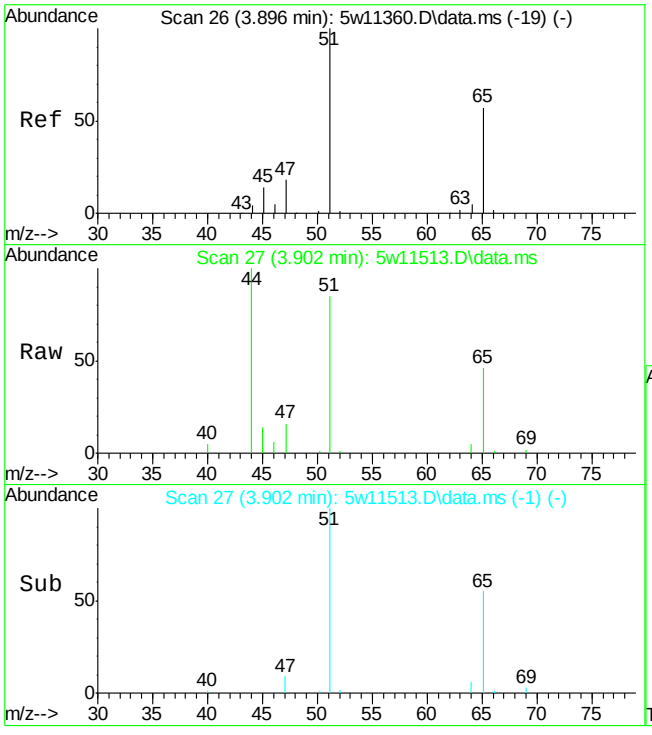
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11513.D
Acq On : 12 May 2015 2:36 pm
Operator : mikel1
Sample : JB94453-1DUP
Misc : MS84958,v5w452,400,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 07:38:51 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

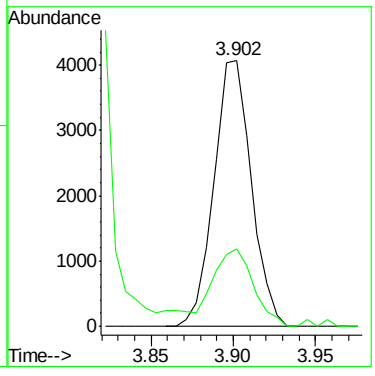


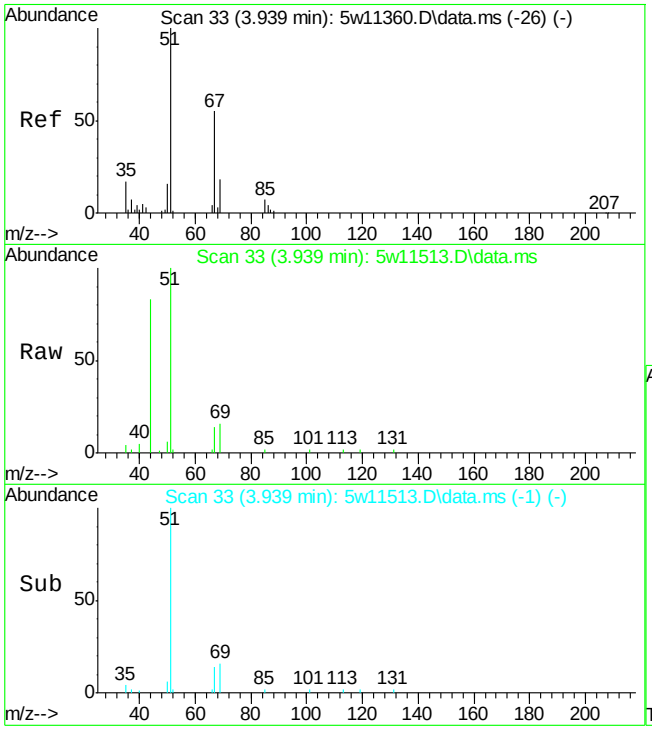


#3
Freon 152A
Concen: 1.02 ppb(v)
RT: 3.902 min Scan# 27
Delta R.T. 0.000 min
Lab File: 5w11513.D
Acq: 12 May 2015 2:36 pm

Tgt Ion: 65 Resp: 6428

Ion	Ratio	Lower	Upper
65	100		
45	29.3	17.2	32.0

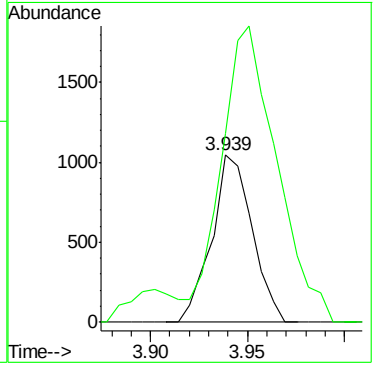


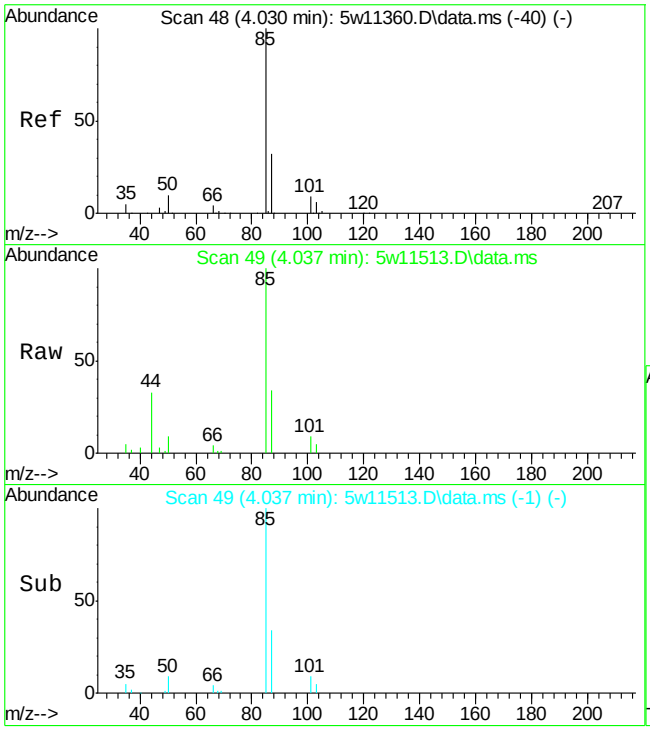


#4
Chlorodifluoromethane
Concen: 0.63 ppb(v)
RT: 3.939 min Scan# 33
Delta R.T. -0.006 min
Lab File: 5w11513.D
Acq: 12 May 2015 2:36 pm

Tgt Ion: 67 Resp: 1509

Ion	Ratio	Lower	Upper
67	100		
69	113.2	23.3	43.3#

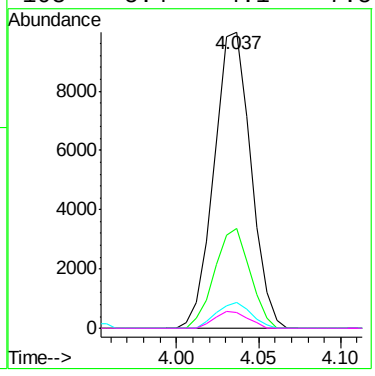


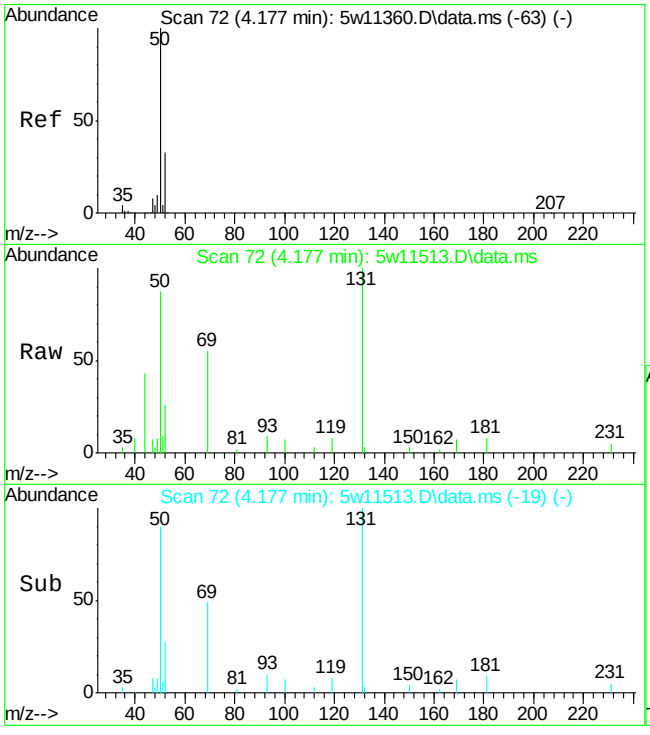


#6
Dichlorodifluoromethane
Concen: 0.59 ppb(v)
RT: 4.037 min Scan# 49
Delta R.T. 0.000 min
Lab File: 5w11513.D
Acq: 12 May 2015 2:36 pm

Tgt Ion: 85 Resp: 15481

Ion	Ratio	Lower	Upper
85	100		
87	33.9	22.7	42.1
101	8.9	6.0	11.2
103	5.4	4.1	7.5

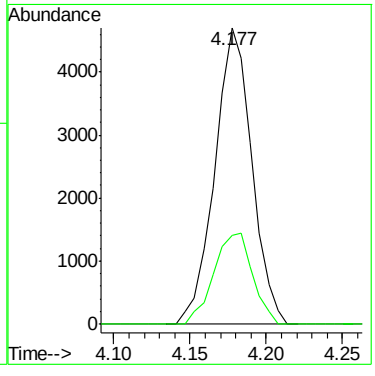


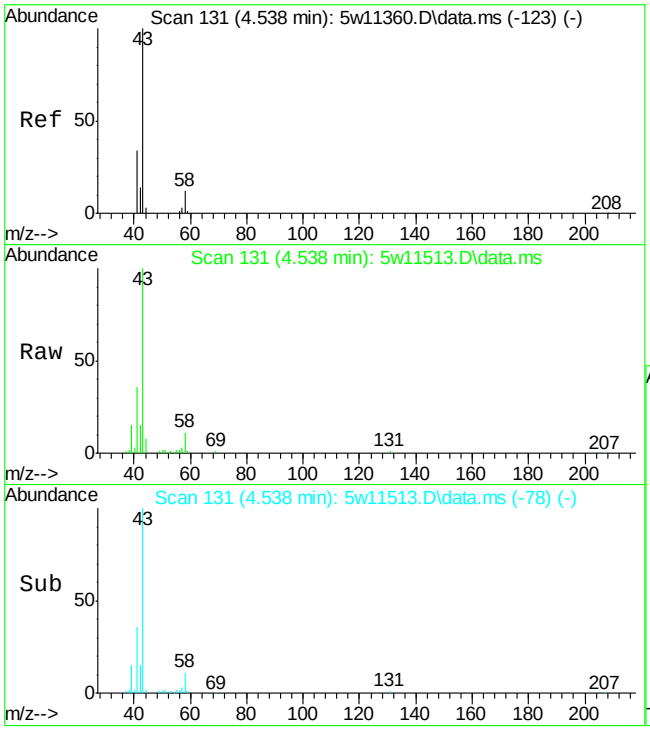


#8
Chloromethane
Concen: 0.93 ppb(v)
RT: 4.177 min Scan# 72
Delta R.T. -0.006 min
Lab File: 5w11513.D
Acq: 12 May 2015 2:36 pm

Tgt Ion: 50 Resp: 7968

Ion	Ratio	Lower	Upper
50	100		
52	29.9	23.2	43.0

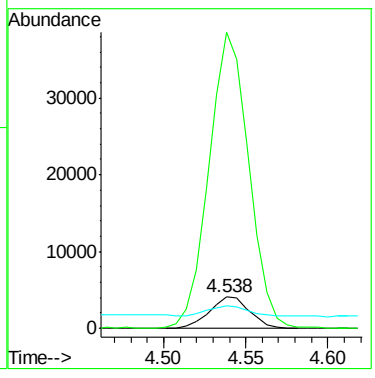


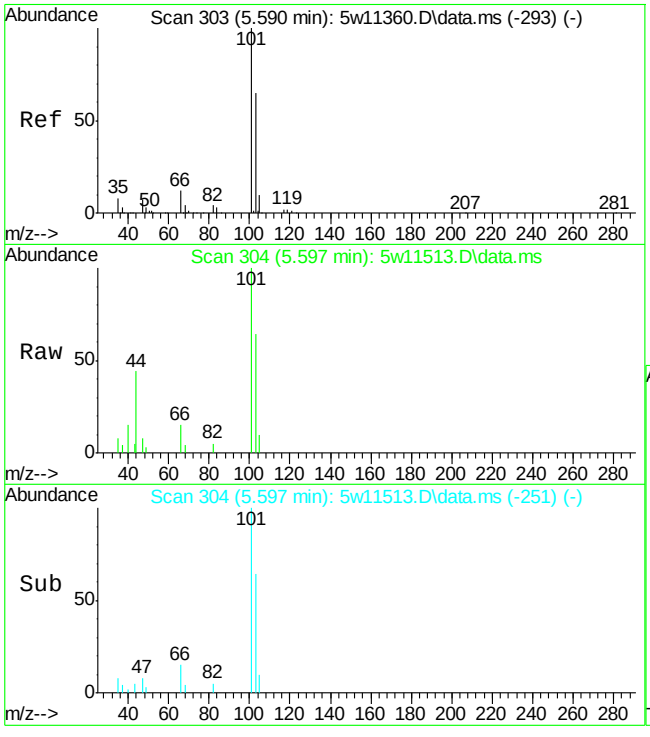


#12
n-Butane
Concen: 4.67 ppb(v)
RT: 4.538 min Scan# 131
Delta R.T. -0.006 min
Lab File: 5w11513.D
Acq: 12 May 2015 2:36 pm

Tgt Ion: 58 Resp: 6834

Ion	Ratio	Lower	Upper
58	100		
43	943.7	583.8	1084.2
44	71.8	25.6	47.6#

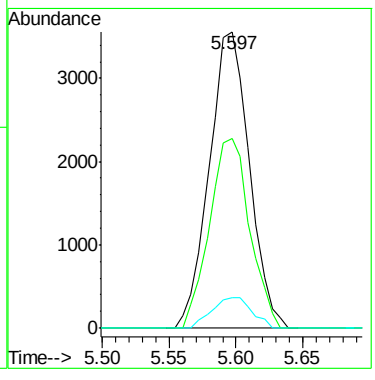




#20
Trichlorofluoromethane
Concen: 0.29 ppb(v)
RT: 5.597 min Scan# 304
Delta R.T. -0.006 min
Lab File: 5w11513.D
Acq: 12 May 2015 2:36 pm

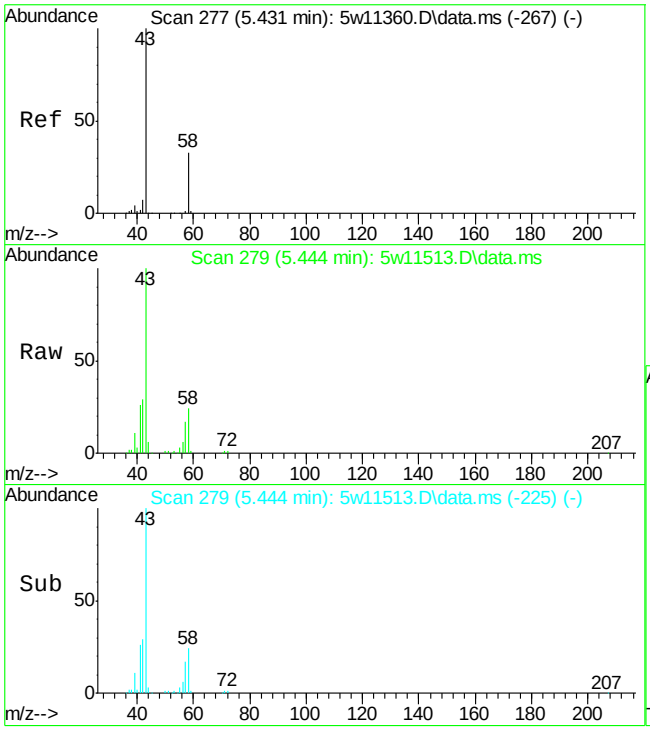
Tgt Ion:101 Resp: 7407

Ion	Ratio	Lower	Upper
101	100		
103	64.1	45.5	84.5
105	10.3	7.6	14.0



7.4.4

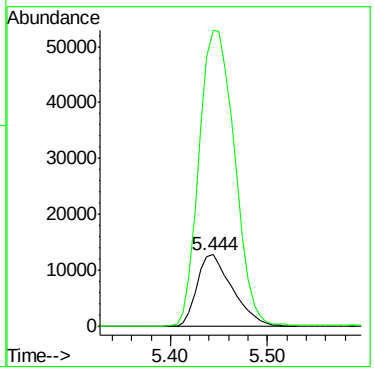
7

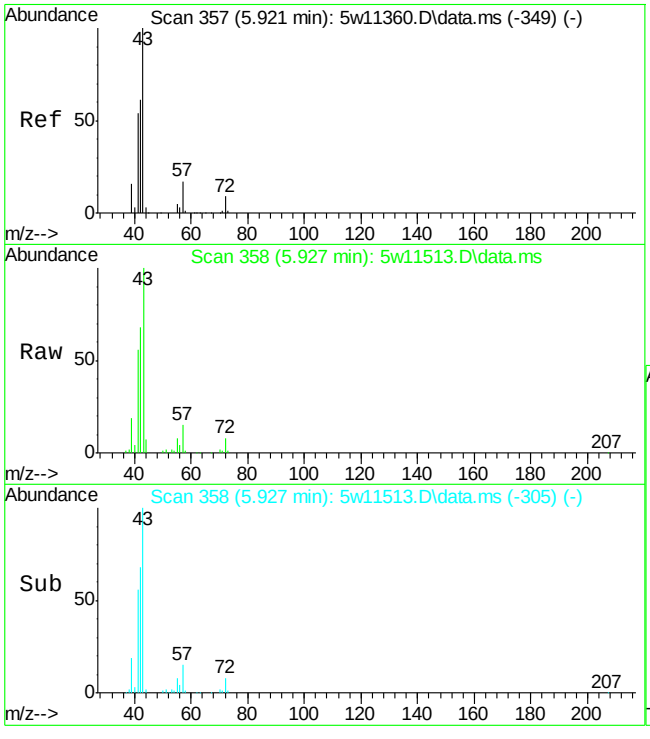


#21
Acetone
Concen: 6.76 ppb(v)
RT: 5.444 min Scan# 279
Delta R.T. 0.000 min
Lab File: 5w11513.D
Acq: 12 May 2015 2:36 pm

Tgt Ion: 58 Resp: 32406

Ion	Ratio	Lower	Upper
58	100		
43	414.3	217.8	404.6#

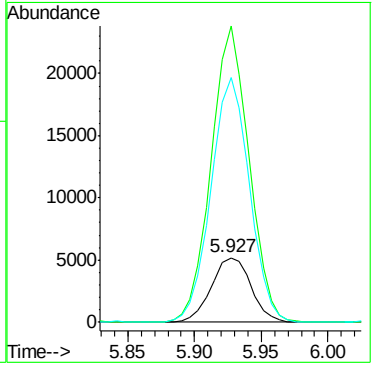


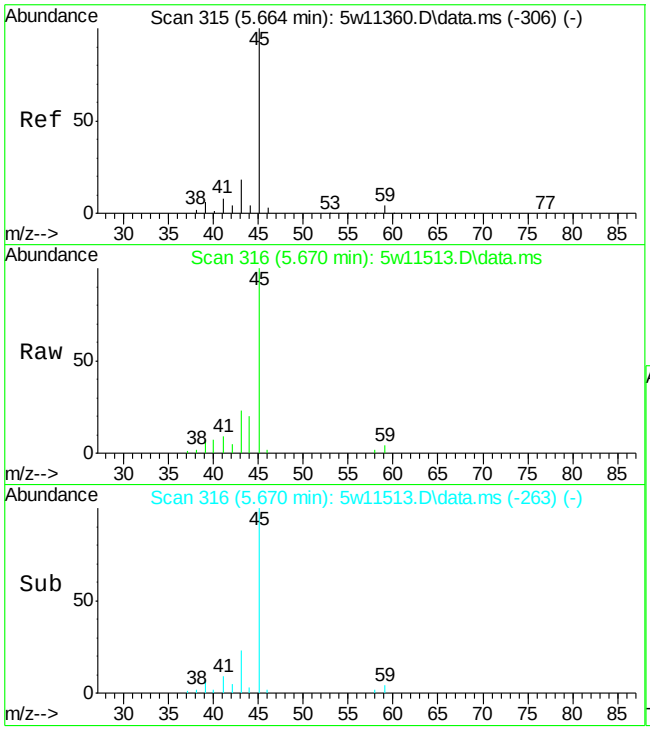


#22
Pentane
Concen: 4.33 ppb(v)
RT: 5.927 min Scan# 358
Delta R.T. -0.006 min
Lab File: 5w11513.D
Acq: 12 May 2015 2:36 pm

Tgt Ion: 57 Resp: 10629

Ion	Ratio	Lower	Upper
57	100		
42	460.3	262.5	487.5
41	379.4	225.7	419.1

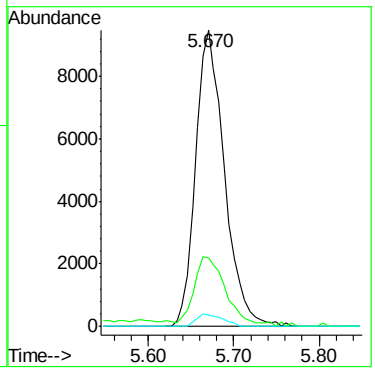


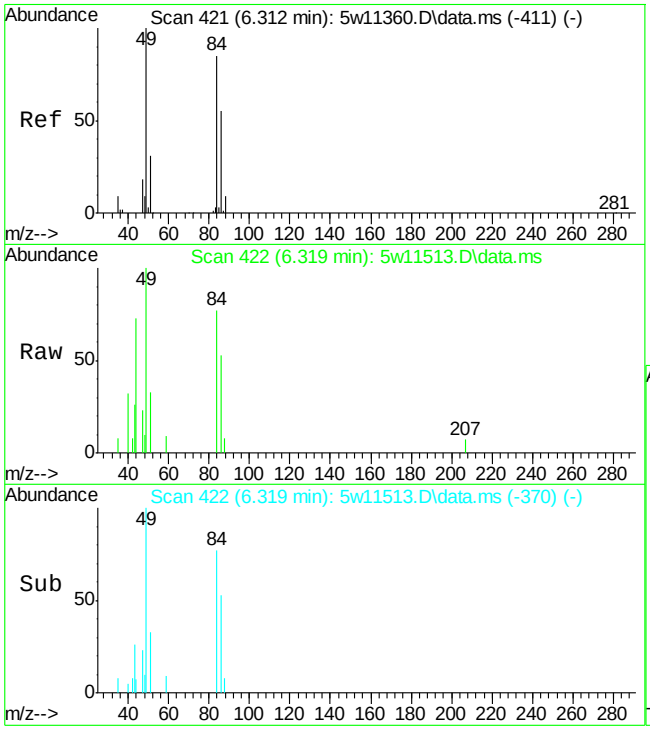


#25
Isopropyl Alcohol
Concen: 1.17 ppb(v)
RT: 5.670 min Scan# 316
Delta R.T. -0.006 min
Lab File: 5w11513.D
Acq: 12 May 2015 2:36 pm

Tgt Ion: 45 Resp: 22144

Ion	Ratio	Lower	Upper
45	100		
43	23.0	14.0	26.0
59	3.9	3.5	6.5

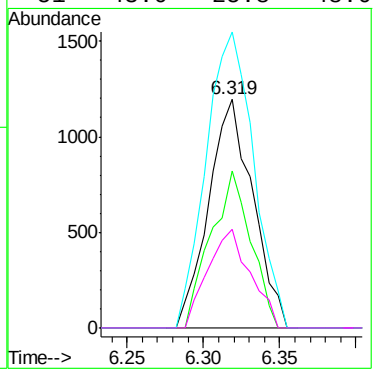




#28
Methylene Chloride
Concen: 0.26 ppb(v)
RT: 6.319 min Scan# 422
Delta R.T. -0.012 min
Lab File: 5w11513.D
Acq: 12 May 2015 2:36 pm

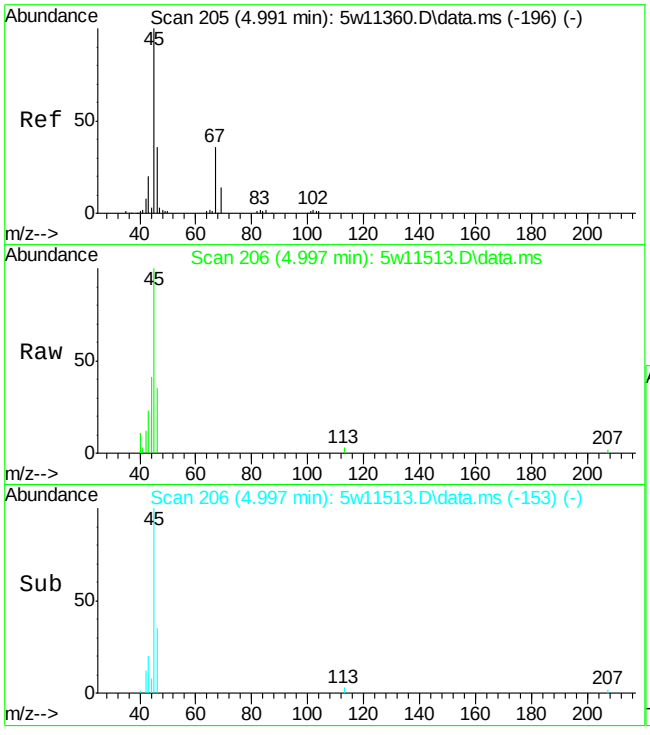
Tgt Ion: 84 Resp: 2430

Ion	Ratio	Lower	Upper
84	100		
86	68.7	44.7	83.1
49	129.1	80.9	150.3
51	43.0	25.8	48.0



7.4.4

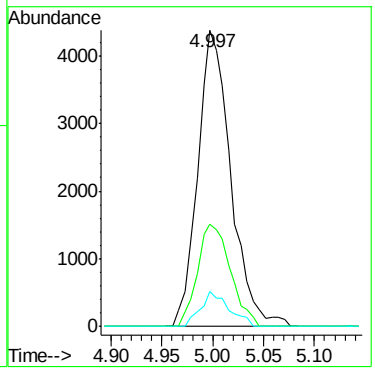
7

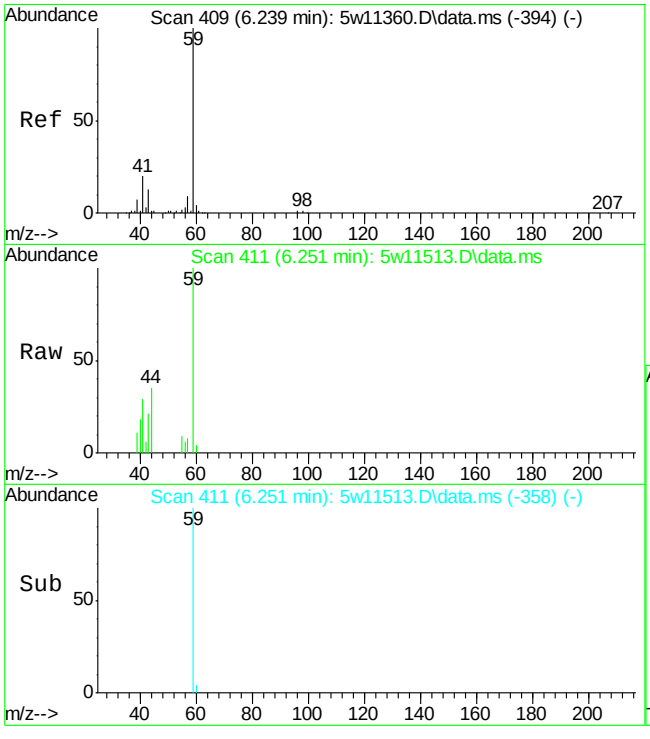


#30
Ethanol
Concen: 2.04 ppb(v)
RT: 4.997 min Scan# 206
Delta R.T. -0.006 min
Lab File: 5w11513.D
Acq: 12 May 2015 2:36 pm

Tgt Ion: 45 Resp: 9869

Ion	Ratio	Lower	Upper
45	100		
46	34.6	24.6	45.6
42	11.7	5.5	10.1#

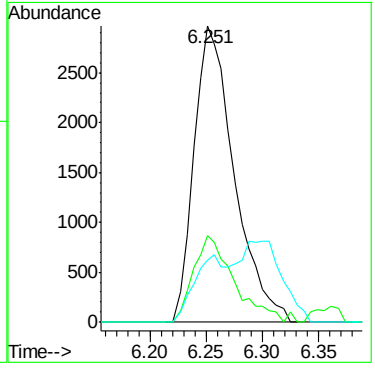




#34
tert-Butyl Alcohol
Concen: 0.31 ppb(v)
RT: 6.251 min Scan# 411
Delta R.T. -0.006 min
Lab File: 5w11513.D
Acq: 12 May 2015 2:36 pm

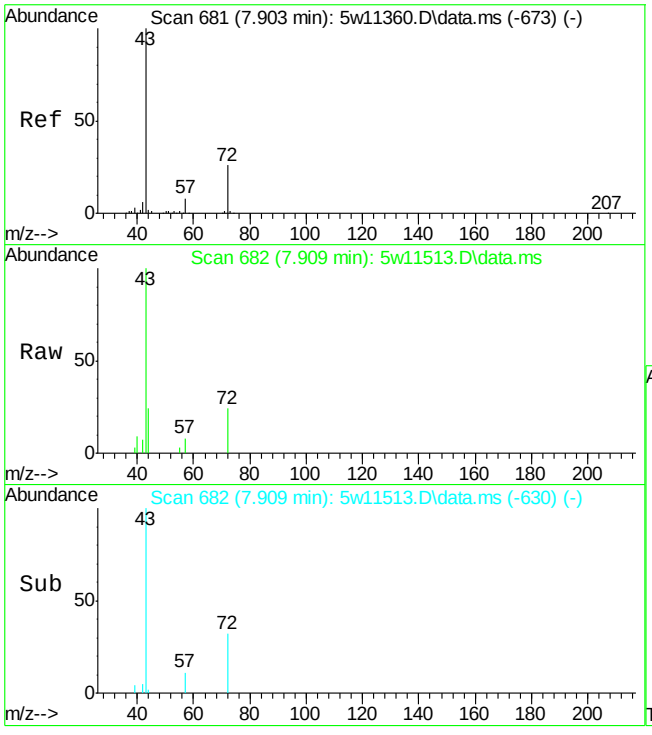
Tgt Ion: 59 Resp: 7403

Ion	Ratio	Lower	Upper
59	100		
41	29.1	13.4	24.8#
43	20.9	9.3	17.3#



7.4.4

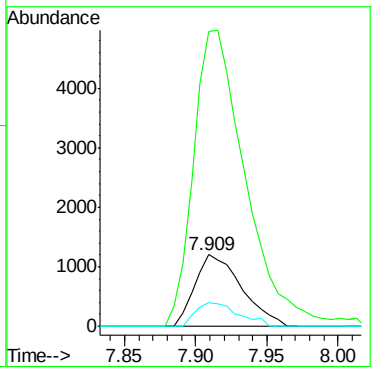
7

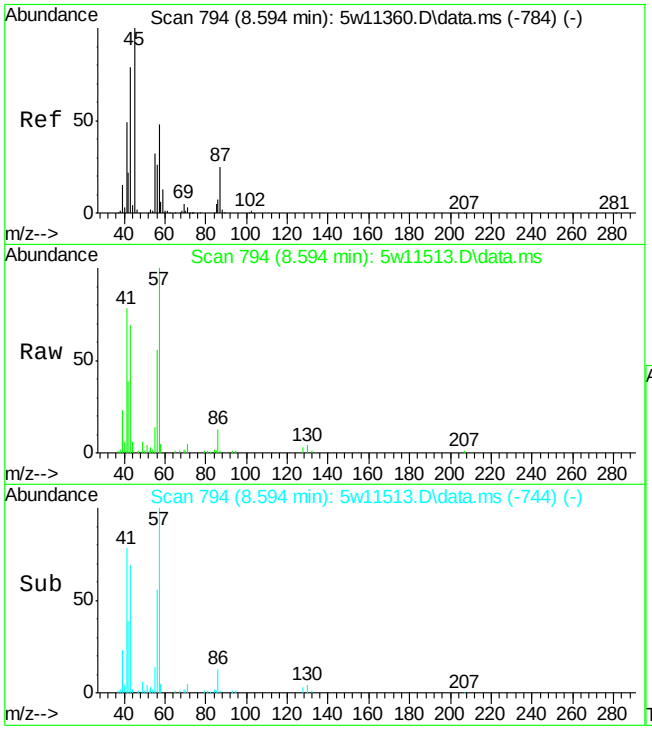


#38
2-Butanone
Concen: 0.52 ppb(v)
RT: 7.909 min Scan# 682
Delta R.T. -0.012 min
Lab File: 5w11513.D
Acq: 12 May 2015 2:36 pm

Tgt Ion: 72 Resp: 2749

Ion	Ratio	Lower	Upper
72	100		
43	412.1	274.1	508.9
57	33.5	22.1	41.1

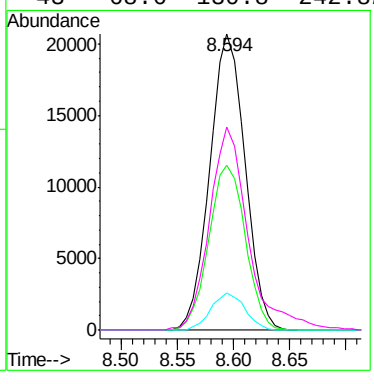




#39
Hexane
Concen: 2.63 ppb(v)
RT: 8.594 min Scan# 794
Delta R.T. -0.024 min
Lab File: 5w11513.D
Acq: 12 May 2015 2:36 pm

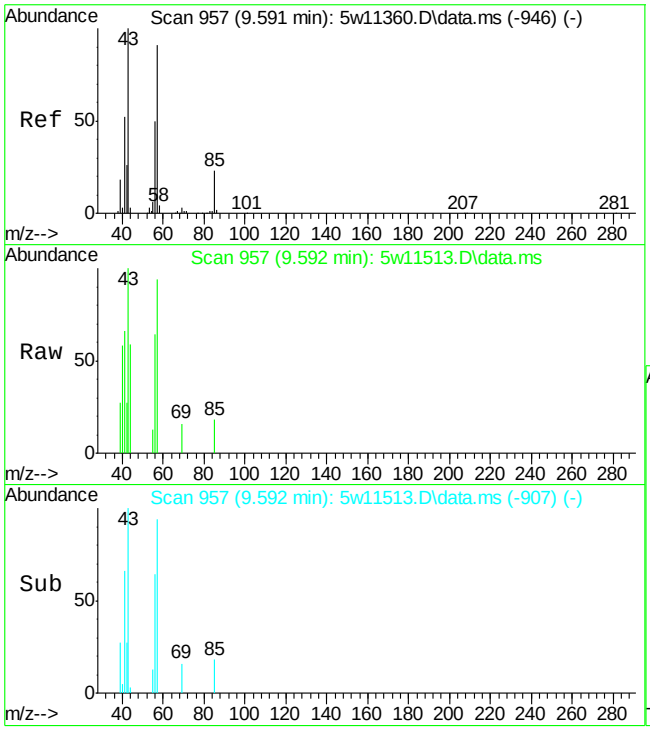
Tgt Ion: 57 Resp: 45043

Ion	Ratio	Lower	Upper
57	100		
56	55.7	37.4	69.4
86	12.5	10.4	19.2
43	68.6	130.8	242.8#



7.4.4

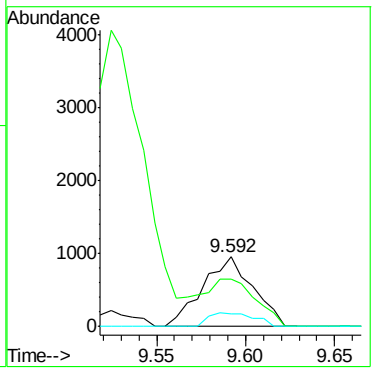
7

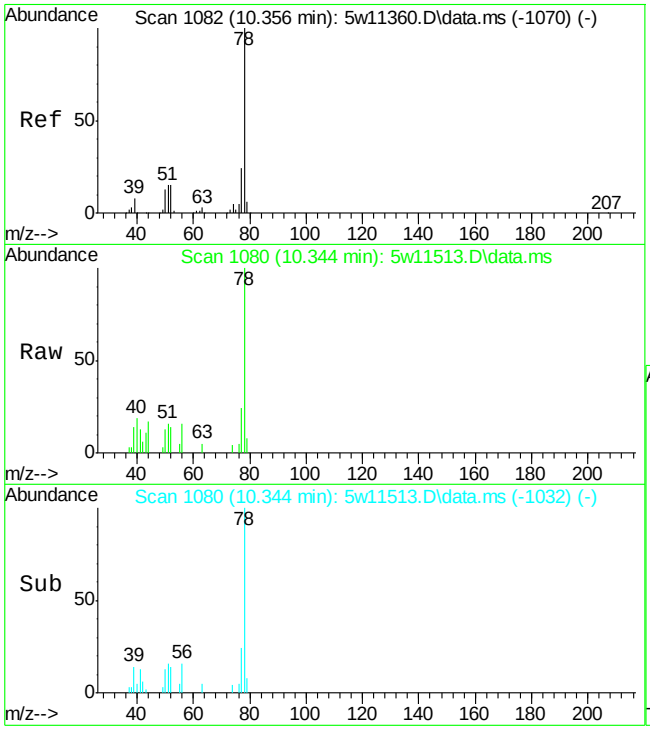


#45
2,4-Dimethylpentane
Concen: 0.10 ppb(v)
RT: 9.592 min Scan# 957
Delta R.T. -0.024 min
Lab File: 5w11513.D
Acq: 12 May 2015 2:36 pm

Tgt Ion: 57 Resp: 1867

Ion	Ratio	Lower	Upper
57	100		
56	67.9	40.3	74.9
85	18.7	18.6	34.6

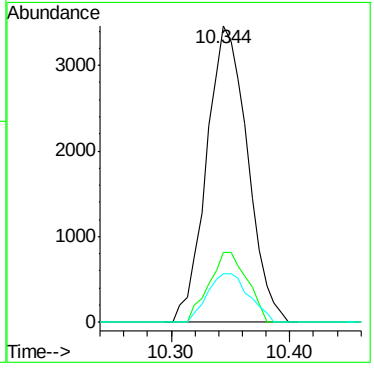


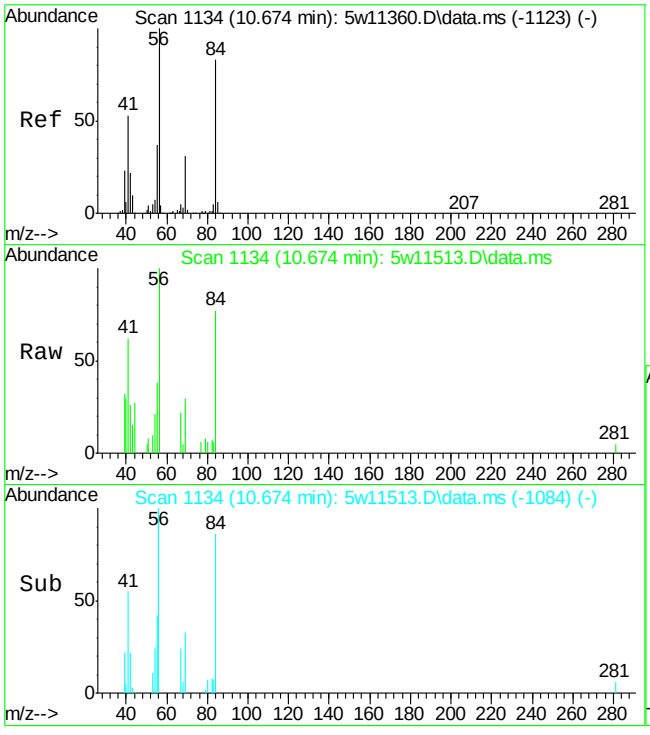


#49
Benzene
Concen: 0.25 ppb(v)
RT: 10.344 min Scan# 1080
Delta R.T. -0.037 min
Lab File: 5w11513.D
Acq: 12 May 2015 2:36 pm

Tgt Ion: 78 Resp: 8326

Ion	Ratio	Lower	Upper
78	100		
77	23.5	16.6	30.8
51	16.4	10.6	19.6

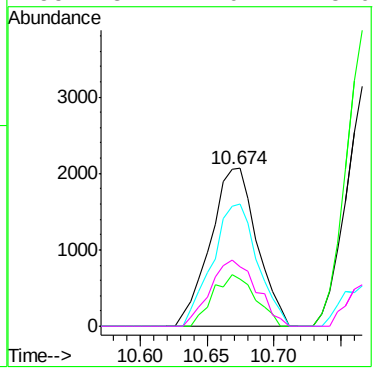


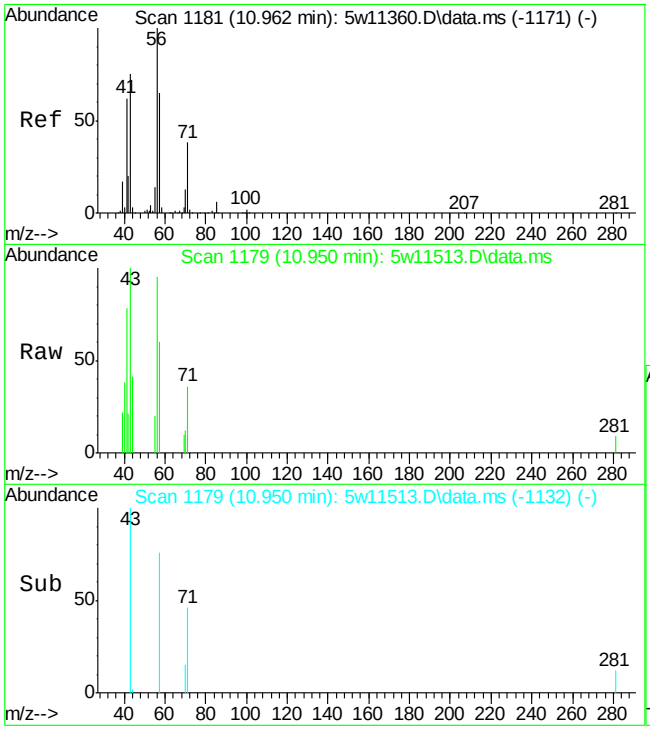


#51
Cyclohexane
Concen: 0.31 ppb(v)
RT: 10.674 min Scan# 1134
Delta R.T. -0.024 min
Lab File: 5w11513.D
Acq: 12 May 2015 2:36 pm

Tgt Ion: 56 Resp: 5018

Ion	Ratio	Lower	Upper
56	100		
69	30.3	22.1	41.1
84	77.4	57.8	107.4
55	37.7	26.2	48.6

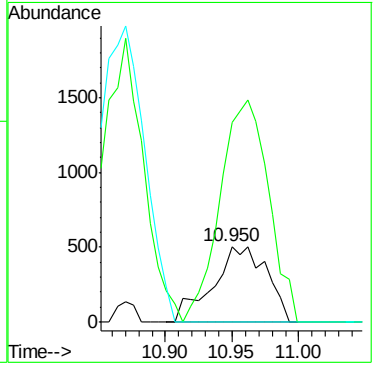


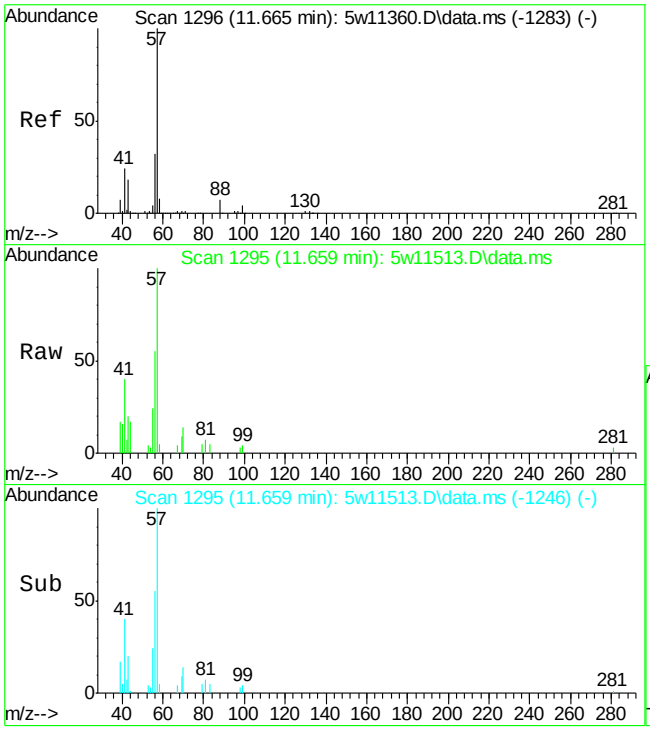


#52
2,3-Dimethylpentane
Concen: 0.21 ppb(v)
RT: 10.950 min Scan# 1179
Delta R.T. -0.043 min
Lab File: 5w11513.D
Acq: 12 May 2015 2:36 pm

Tgt Ion: 71 Resp: 1422

Ion	Ratio	Lower	Upper
71	100		
56	263.3	183.3	340.5
85	0.0	10.8	20.0#

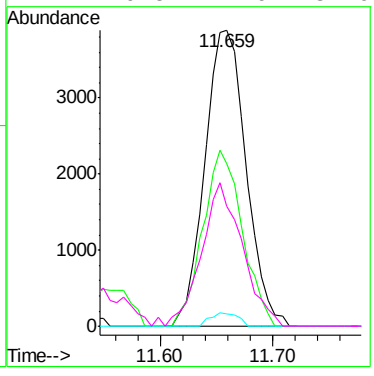


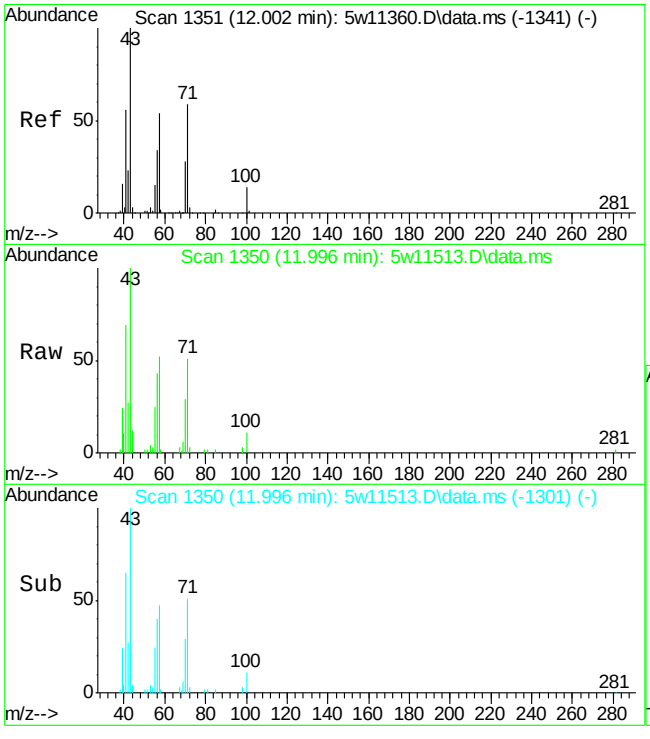


#54
2,2,4-Trimethylpentane
Concen: 0.20 ppb(v)
RT: 11.659 min Scan# 1295
Delta R.T. -0.030 min
Lab File: 5w11513.D
Acq: 12 May 2015 2:36 pm

Tgt Ion: 57 Resp: 9894

Ion	Ratio	Lower	Upper
57	100		
56	54.9	23.2	43.0#
99	4.3	3.4	6.4
41	40.5	17.0	31.6#

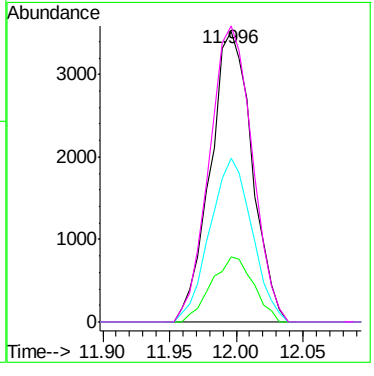


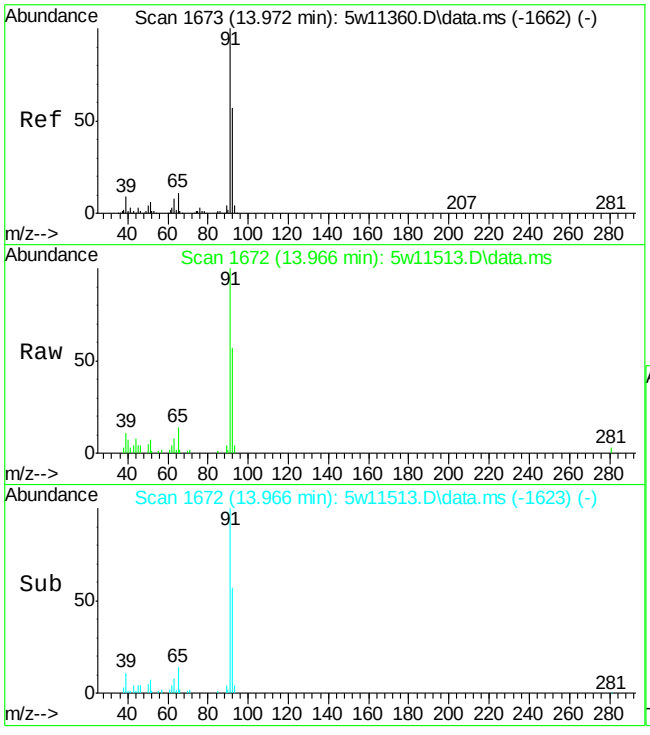


#55
Heptane
Concen: 0.79 ppb(v)
RT: 11.996 min Scan# 1350
Delta R.T. -0.030 min
Lab File: 5w11513.D
Acq: 12 May 2015 2:36 pm

Tgt Ion: 71 Resp: 7651

Ion	Ratio	Lower	Upper
71	100		
100	22.3	18.3	33.9
70	56.4	33.5	62.1
57	102.0	64.9	120.5

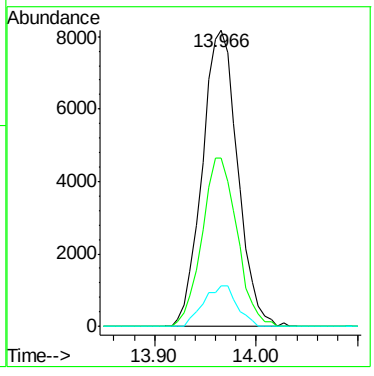


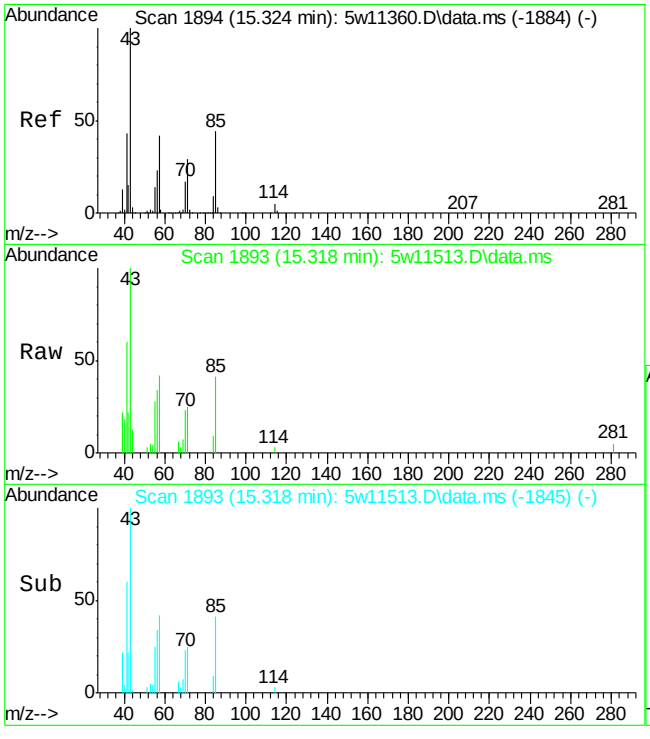


#66
Toluene
Concen: 0.52 ppb(v)
RT: 13.966 min Scan# 1672
Delta R.T. -0.030 min
Lab File: 5w11513.D
Acq: 12 May 2015 2:36 pm

Tgt Ion: 91 Resp: 19810

Ion	Ratio	Lower	Upper
91	100		
92	57.0	40.3	74.9
65	13.8	7.6	14.0

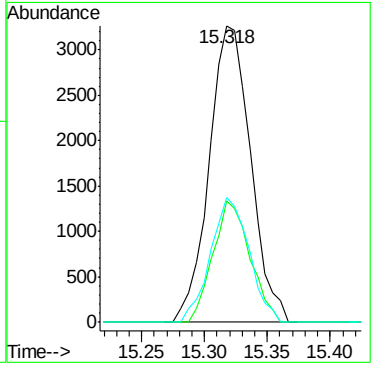




#73
Octane
Concen: 0.32 ppb(v)
RT: 15.318 min Scan# 1893
Delta R.T. -0.037 min
Lab File: 5w11513.D
Acq: 12 May 2015 2:36 pm

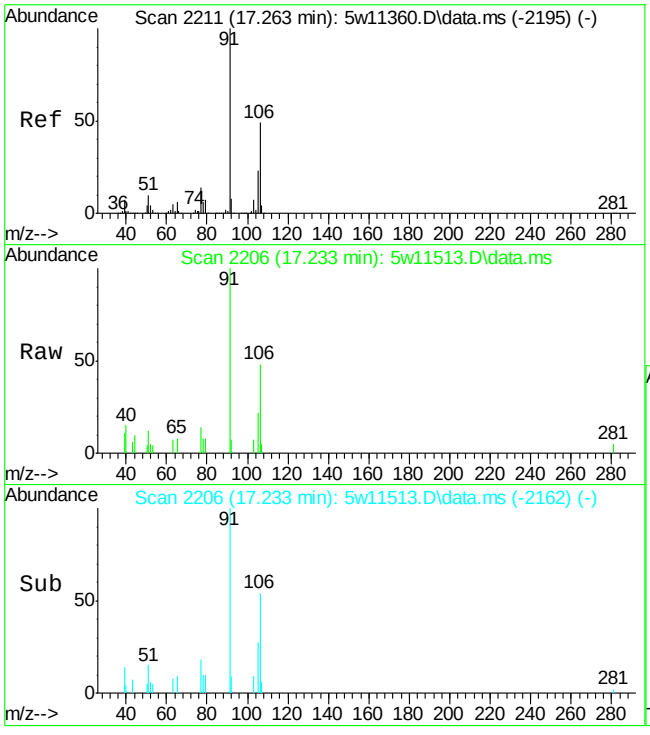
Tgt Ion: 43 Resp: 7459

Ion	Ratio	Lower	Upper
43	100		
85	41.1	31.6	58.8
57	42.2	29.5	54.7



7.4.4

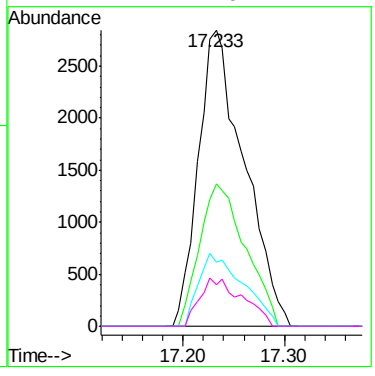
7

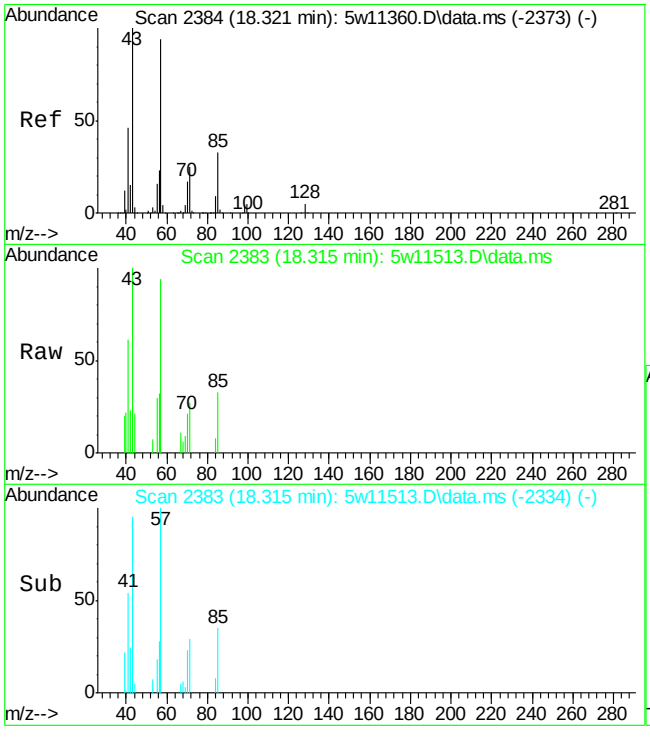


#78
m,p-Xylene
Concen: 0.23 ppb(v)
RT: 17.233 min Scan# 2206
Delta R.T. -0.061 min
Lab File: 5w11513.D
Acq: 12 May 2015 2:36 pm

Tgt Ion: 91 Resp: 8900

Ion	Ratio	Lower	Upper
91	100		
106	48.0	35.1	65.1
105	21.7	16.0	29.8
77	14.2	9.4	17.4

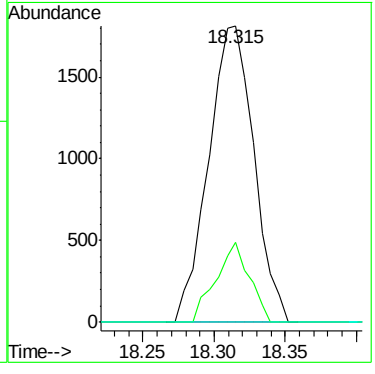




#80
Nonane
Concen: 0.16 ppb(v)
RT: 18.315 min Scan# 2383
Delta R.T. -0.030 min
Lab File: 5w11513.D
Acq: 12 May 2015 2:36 pm

Tgt Ion: 43 Resp: 4019

Ion	Ratio	Lower	Upper
43	100		
71	26.9	18.4	34.2
128	0.0	3.6	6.8#



7.4.4

7

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W51056.D Vial: 11
Acq On : 23 Apr 2015 7:22 pm Operator: mikel1
Sample : SCC(A131) Inst : MSW
Misc : MS83902,VW2039,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:09:57 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	9.33	128	97677	10.00	PPBV	-0.01
49) 1,4-DIFLUOROBENZENE	11.07	114	471116	10.00	PPBV	-0.01
67) CHLOROBENZENE-D5	15.36	82	205770	10.00	PPBV	0.00

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	16.97	95	221883	9.37	PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 93.70%

Target Compounds Qvalue

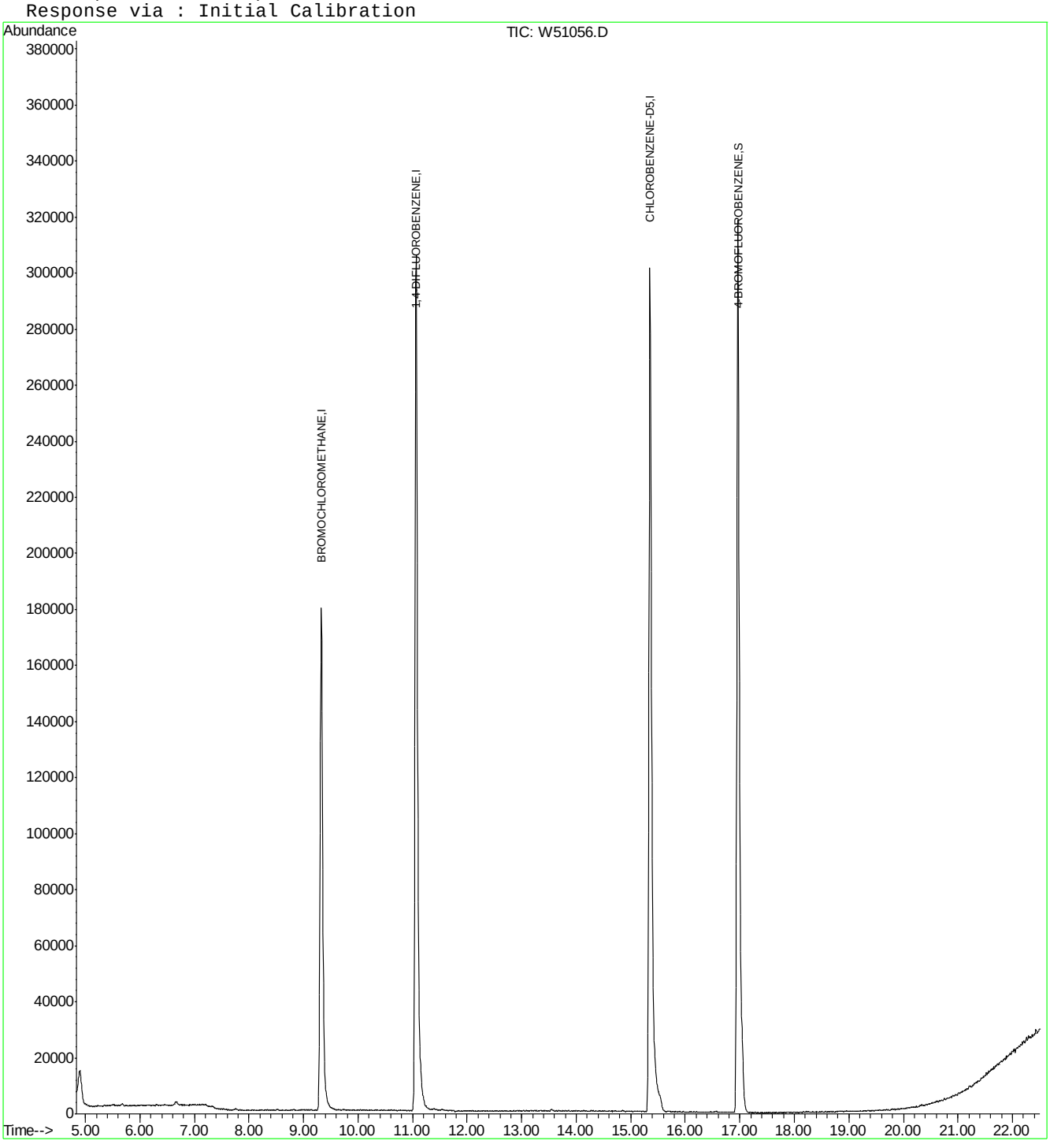
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W51056.D
Acq On : 23 Apr 2015 7:22 pm
Sample : SCC(A131)
Misc : MS83902,VW2039,,,,,1
MS Integration Params: rteint.p
Quant Time: Apr 24 12:01 2015

Vial: 11
Operator: mikel1
Inst : MSW
Multiplr: 1.00
Quant Results File: MW2031.RES

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W47240.D Vial: 16
Acq On : 27 Apr 2015 10:47 pm Operator: YOUMINH
Sample : SCC(A259) Inst : MS3W
Misc : MS83902,V3W1792,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 28 09:37:15 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.15	128	127488	10.00	PPBV	-0.01
52) 1,4-DIFLUOROBENZENE	8.74	114	528413	10.00	PPBV	0.00
71) CHLOROBENZENE-D5	12.88	82	209512	10.00	PPBV	0.00

System Monitoring Compounds

86) 4-BROMOFLUOROBENZENE	14.52	95	207659	8.86	PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 88.60%

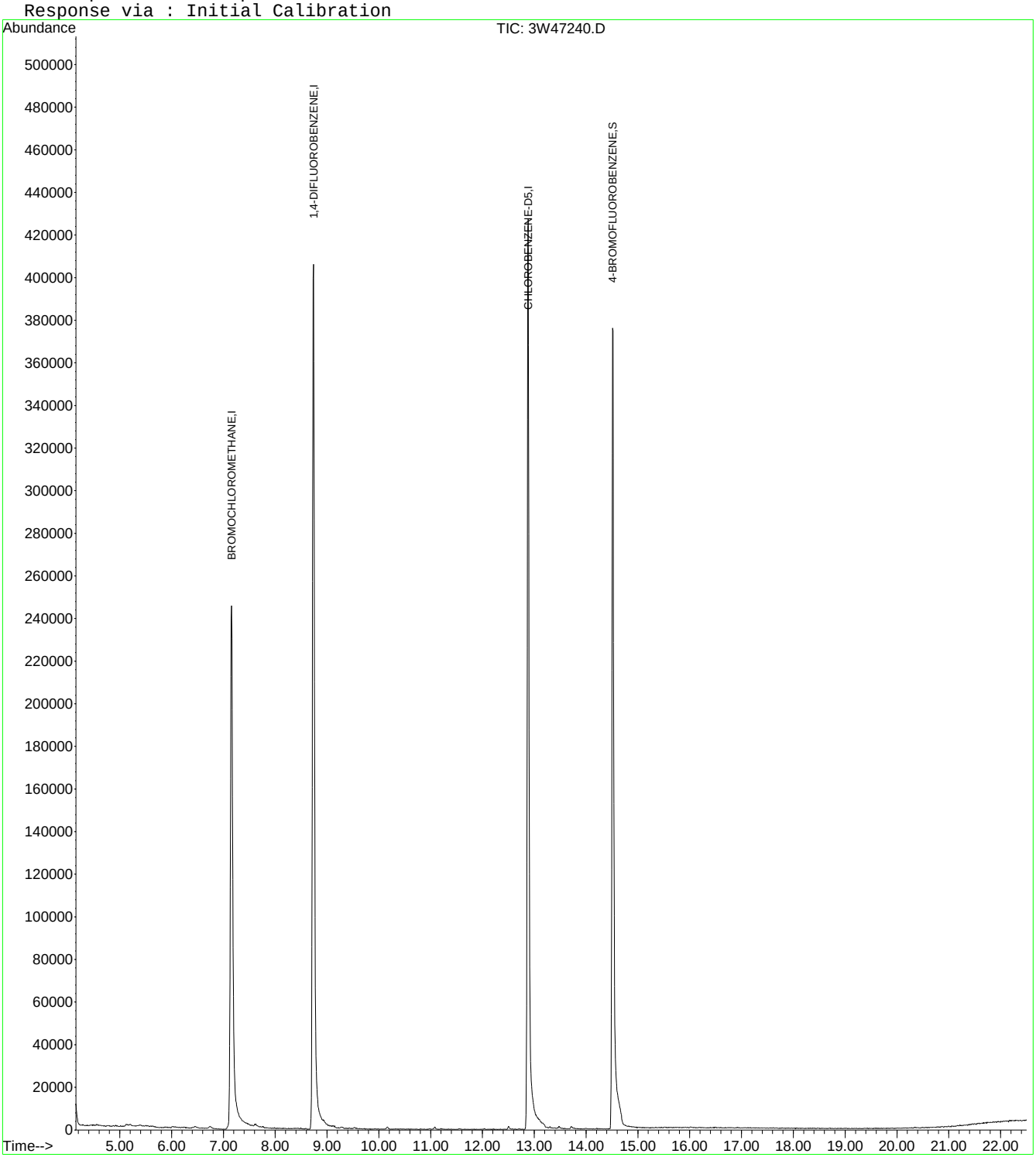
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W47240.D M3W1782.M Tue Apr 28 10:46:35 2015 MS3W

Quantitation Report (QT Reviewed)

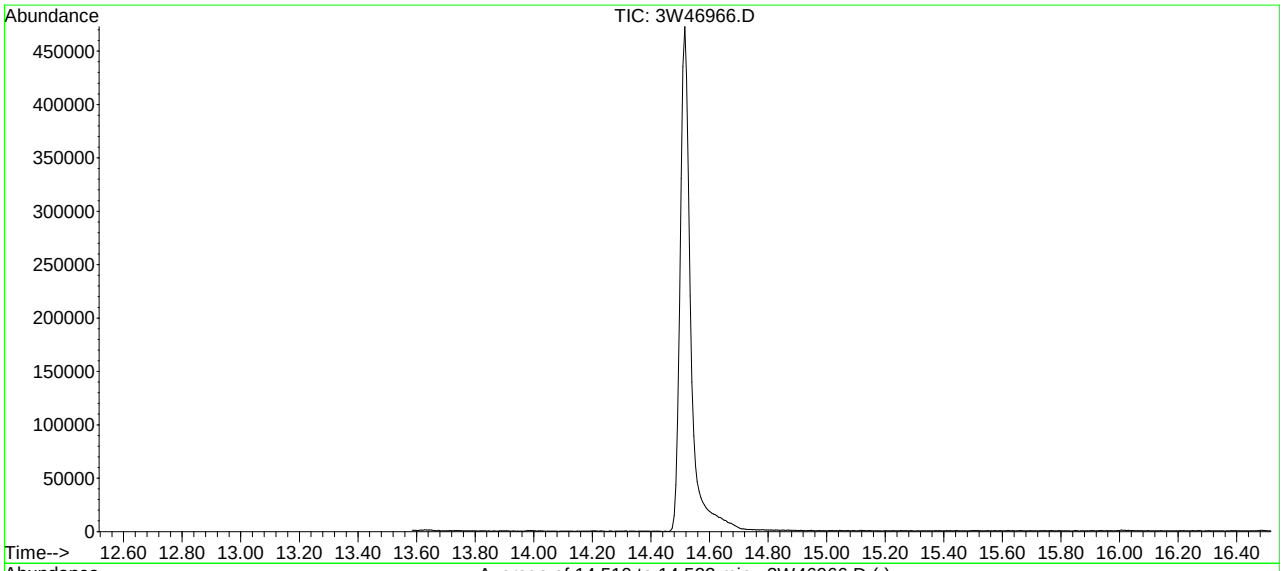
Data File : C:\MSDCHEM\1\DATA\3W47240.D Vial: 16
Acq On : 27 Apr 2015 10:47 pm Operator: YOUMINH
Sample : SCC(A259) Inst : MS3W
Misc : MS83902,V3W1792,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 28 10:16 2015 Quant Results File: M3W1782.RES

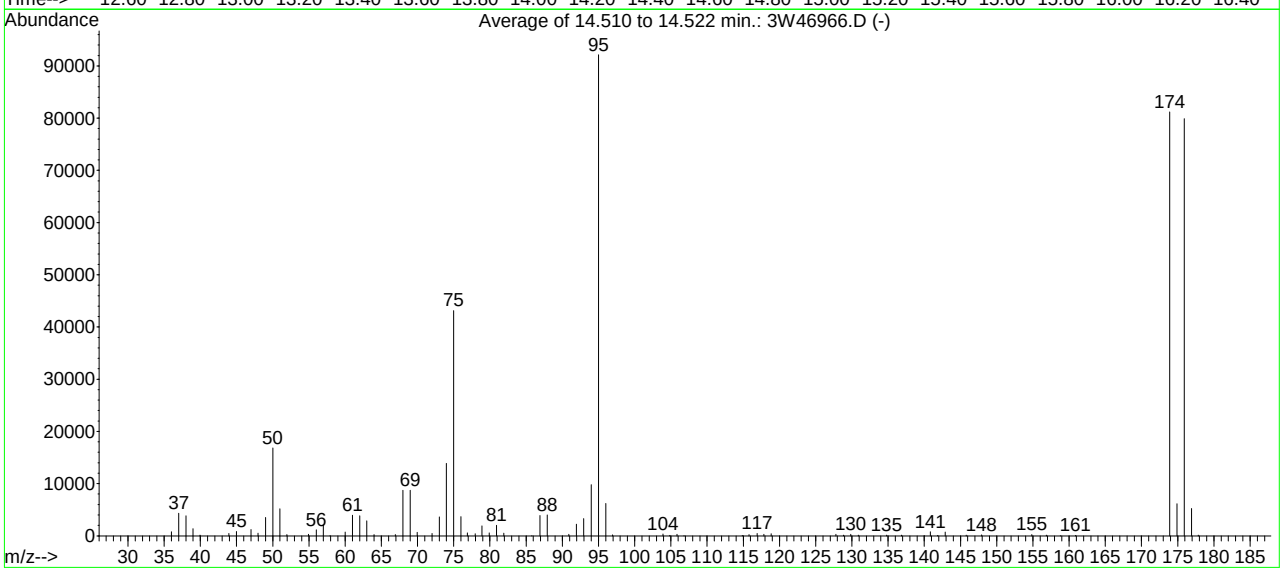
Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Initial Calibration



BFB

```
Data File : C:\MSDCHEM\1\DATA\3W46966.D                    Vial: 5
Acq On    : 14 Apr 2015   4:36 pm                     Operator: YOUMINH
Sample    : BFB                                       Inst    : MS3W
Misc      : MS83225,V3W1782,,,,,1                     Multiplr: 1.00
MS Integration Params: RTEINT1.P
Method    : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title     : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
```





AutoFind: Scans 153, 154, 155; Background Corrected with Scan 143

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.3	16821	PASS
75	95	30	66	46.8	43120	PASS
95	95	100	100	100.0	92125	PASS
96	95	5	9	6.7	6189	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	88.1	81181	PASS
175	174	4	9	7.6	6140	PASS
176	174	93	101	98.4	79888	PASS
177	176	5	9	6.5	5212	PASS

3W46966.D M3W1782.M Wed Apr 15 11:09:26 2015 MS3W

Average of 14.510 to 14.522 min.: 3W46966.D
BFB
Modified:subtracted

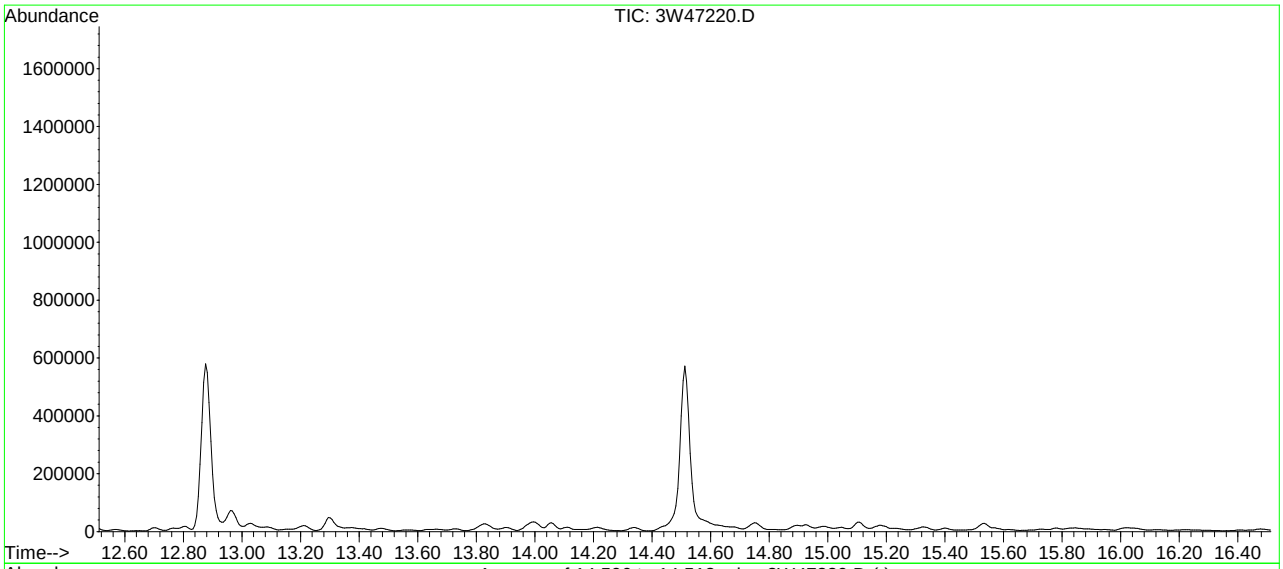
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	782	51.00	5196	66.95	246	78.90	1927
37.00	4343	51.95	228	68.00	8717	79.90	584
38.00	3856	54.95	273	69.00	8721	80.90	2004
39.00	1357	56.00	1173	69.95	689	81.90	535
39.95	144	57.00	2132	72.00	463	85.80	34
43.95	455	57.90	35	73.00	3627	86.90	3919
45.00	823	60.00	755	74.00	13875	87.90	4008
47.00	1221	61.00	3925	75.00	43120	90.90	306
47.95	526	62.00	3822	76.00	3705	91.95	2238
49.00	3500	63.00	2863	76.90	568	92.95	3315
50.00	16821	64.00	229	77.95	424	94.00	9809

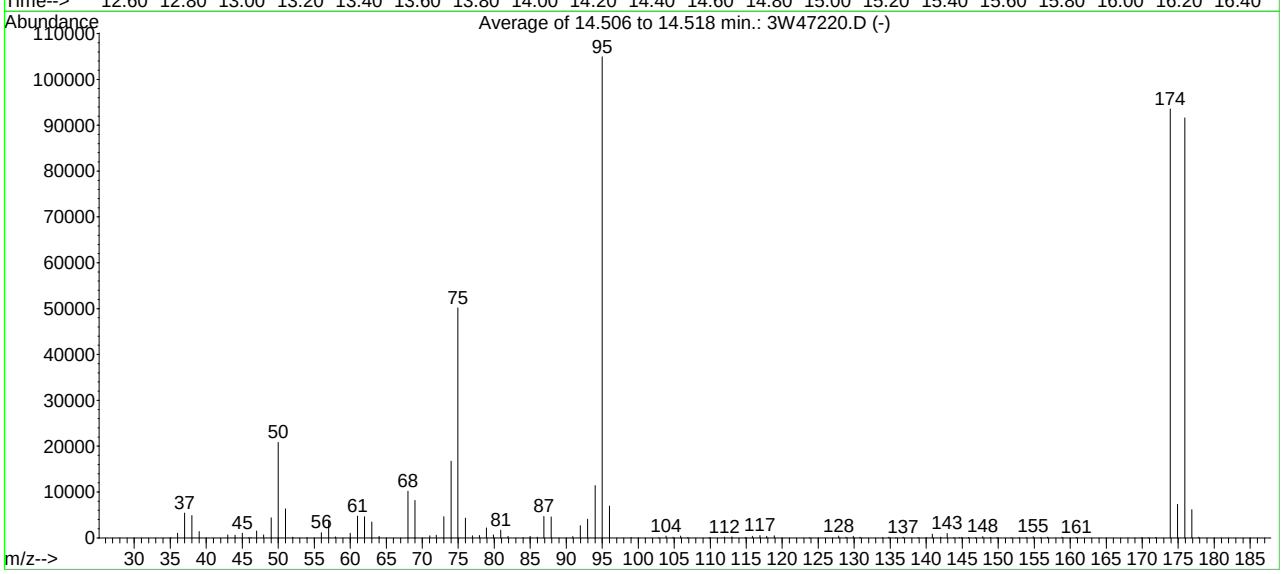
Average of 14.510 to 14.522 min.: 3W46966.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.00	92125	118.85	399	145.80	113		
96.00	6189	127.80	279	147.90	214		
96.95	200	128.85	145	154.85	249		
103.90	325	129.85	315	156.85	161		
104.85	86	130.90	132	158.80	41		
105.85	309	134.80	157	160.90	75		
106.80	36	136.85	151	173.90	81181		
114.85	71	140.00	34	174.90	6140		
115.80	263	140.85	758	175.90	79888		
116.90	447	141.85	81	176.90	5212		
117.85	312	142.90	754	177.85	139		

BFB

```
Data File : C:\MSDCHEM\1\DATA\3W47220.D                    Vial: 1
Acq On    : 27 Apr 2015   8:46 am                     Operator: YOUMINH
Sample    : BFB                                       Inst    : MS3W
Misc      : MS84235,V3W1792,,,,,1                     Multiplr: 1.00
MS Integration Params: RTEINT1.P
Method    : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title     : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
```





AutoFind: Scans 1703, 1704, 1705; Background Corrected with Scan 1695

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.9	20845	PASS
75	95	30	66	47.8	50134	PASS
95	95	100	100	100.0	104914	PASS
96	95	5	9	6.6	6962	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	89.2	93536	PASS
175	174	4	9	7.8	7338	PASS
176	174	93	101	97.9	91610	PASS
177	176	5	9	6.7	6129	PASS

3W47220.D M3W1782.M Tue Apr 28 10:37:26 2015 MS3W

Average of 14.506 to 14.518 min.: 3W47220.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	18	47.95	649	62.00	4601	76.95	432
36.00	998	49.00	4352	63.00	3441	77.95	503
37.00	5386	50.00	20845	64.00	316	78.90	2189
38.00	4890	51.00	6315	68.00	10160	79.90	660
39.00	1357	52.00	180	69.00	8151	80.90	1695
43.00	657	54.00	50	71.05	437	81.90	370
44.00	610	56.00	1141	71.95	593	84.00	44
45.00	1004	57.00	3773	73.00	4646	85.00	360
45.90	50	57.95	236	74.00	16722	85.95	132
46.20	38	60.00	1006	74.95	50134	86.90	4670
47.00	1493	61.00	4769	76.00	4291	87.90	4552

Average of 14.506 to 14.518 min.: 3W47220.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
90.90	278	106.85	86	128.85	163	142.90	975
91.95	2662	109.85	72	129.85	352	143.80	37
92.95	4085	111.95	145	130.80	147	144.60	43
94.00	11405	113.00	203	133.90	21	144.90	70
95.00	104914	114.90	114	134.80	141	145.85	124
96.00	6962	115.85	353	135.80	25	146.85	59
99.05	60	116.90	493	136.80	180	147.85	249
102.85	43	117.85	320	138.85	37	148.90	76
103.85	424	118.90	444	140.00	47	149.85	96
104.85	137	123.80	40	140.85	817	151.80	21
105.90	397	127.85	384	142.00	137	152.90	62

Average of 14.506 to 14.518 min.: 3W47220.D
BFB
Modified:subtracted

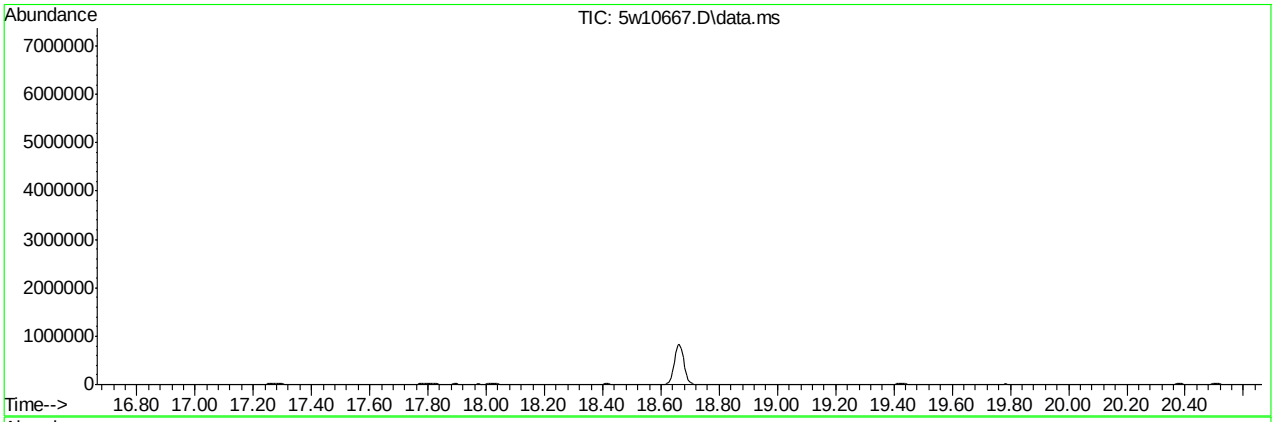
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
153.90	60	175.90	91610				
154.85	248	176.90	6129				
155.90	17	177.85	158				
156.85	177						
158.85	129						
160.85	118						
169.90	21						
170.80	23						
171.90	96						
173.90	93536						
174.90	7338						

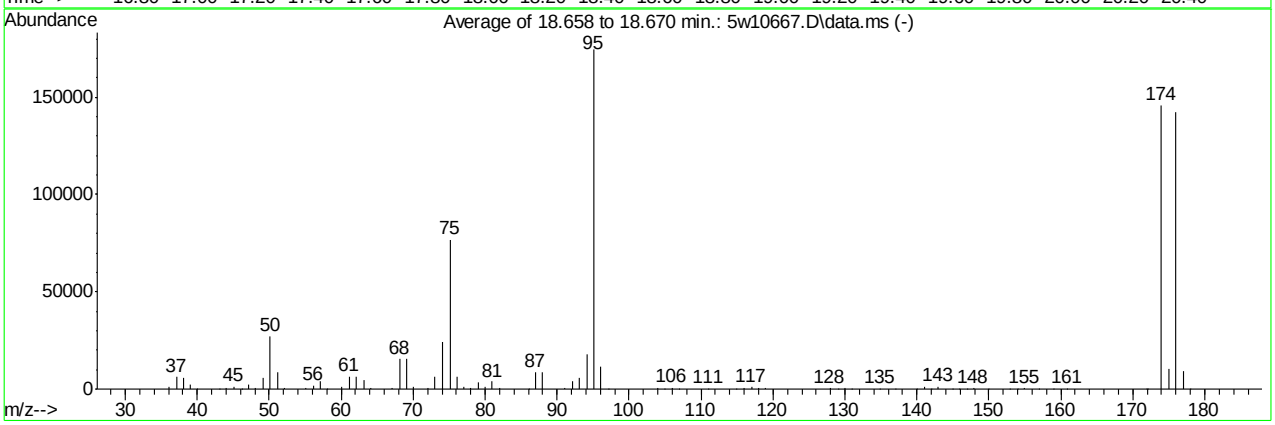
BFB

Data Path : C:\msdchem\1\DATA\
Data File : 5w10667.D
Acq On : 2 Apr 2015 7:06 am
Operator : mikel1
Sample : BFB
Misc : MS82329,v5w419,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Integration File: Rteint.p

Method : C:\msdchem\1\METHODS\m5w419.M
Title : TO-15 Full Scan Mode
Last Update : Fri Apr 03 09:14:40 2015



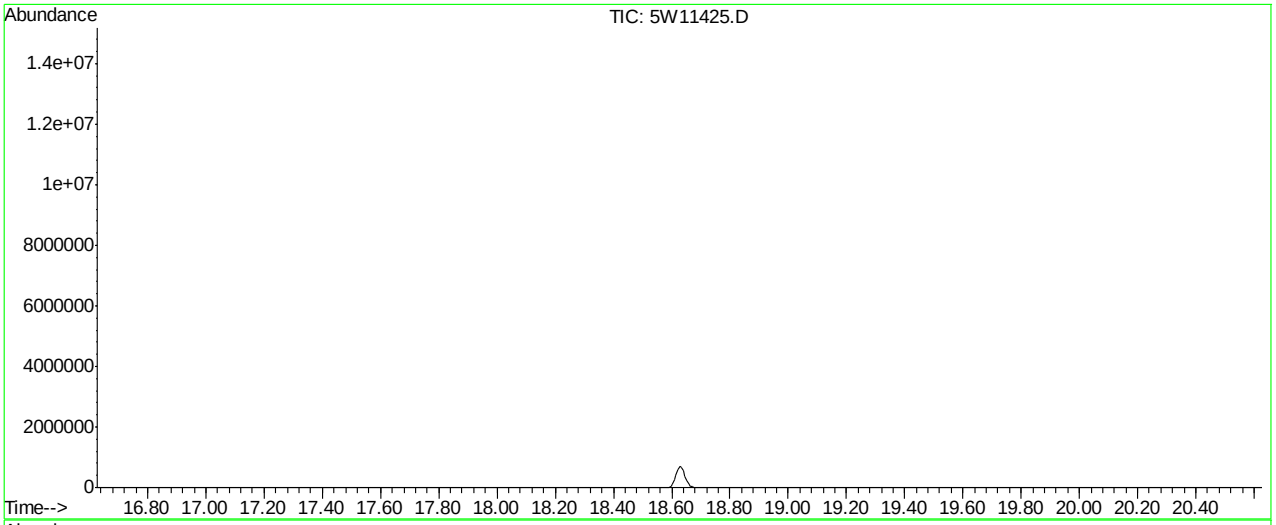


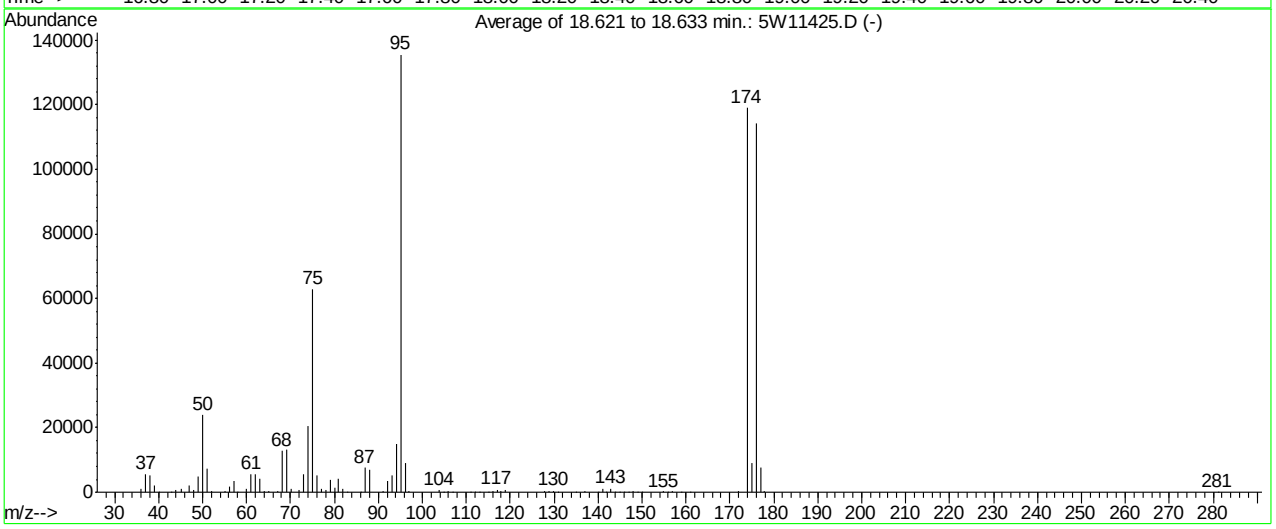
AutoFind: Scans 2439, 2440, 2441; Background Corrected with Scan 2428

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.6	27296	PASS
75	95	30	66	44.1	76888	PASS
95	95	100	100	100.0	174507	PASS
96	95	5	9	6.5	11427	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	83.7	146005	PASS
175	174	4	9	7.2	10579	PASS
176	174	93	101	97.5	142315	PASS
177	176	5	9	6.5	9281	PASS

BFB

Data File : C:\MSDCHEM\1\DATA\5W_CORE\5W11425.D Vial: 1
Acq On : 8 May 2015 6:46 am Operator: mikel1
Sample : BFB Inst : GCMS5W
Misc : MS84579,v5w449,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\MW2041.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um





AutoFind: Scans 2433, 2434, 2435; Background Corrected with Scan 2423

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.6	23885	PASS
75	95	30	66	46.4	62925	PASS
95	95	100	100	100.0	135522	PASS
96	95	5	9	6.7	9104	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	87.7	118901	PASS
175	174	4	9	7.5	8973	PASS
176	174	93	101	96.1	114240	PASS
177	176	5	9	6.8	7735	PASS

5W11425.D MW2041.M Fri May 08 11:27:32 2015 MSW

Average of 18.621 to 18.633 min.: 5W11425.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	1026	50.10	23885	64.05	447	77.00	932
37.10	5634	51.10	7454	65.05	234	78.05	687
38.10	5121	52.05	293	67.05	351	79.00	3925
39.10	2097	55.05	347	68.10	12769	80.00	1296
40.00	84	56.05	1748	69.10	13045	81.00	4124
43.00	35	57.10	3400	70.05	1033	81.95	1014
44.00	652	58.00	172	72.05	613	83.00	43
45.10	1097	60.00	1094	73.10	5535	85.95	188
47.05	2033	61.10	5659	74.10	20384	87.00	7554
48.05	745	62.10	5484	75.10	62925	88.00	7121
49.10	4880	63.10	4255	76.10	5377	91.00	436

Average of 18.621 to 18.633 min.: 5W11425.D
BFB
Modified:subtracted

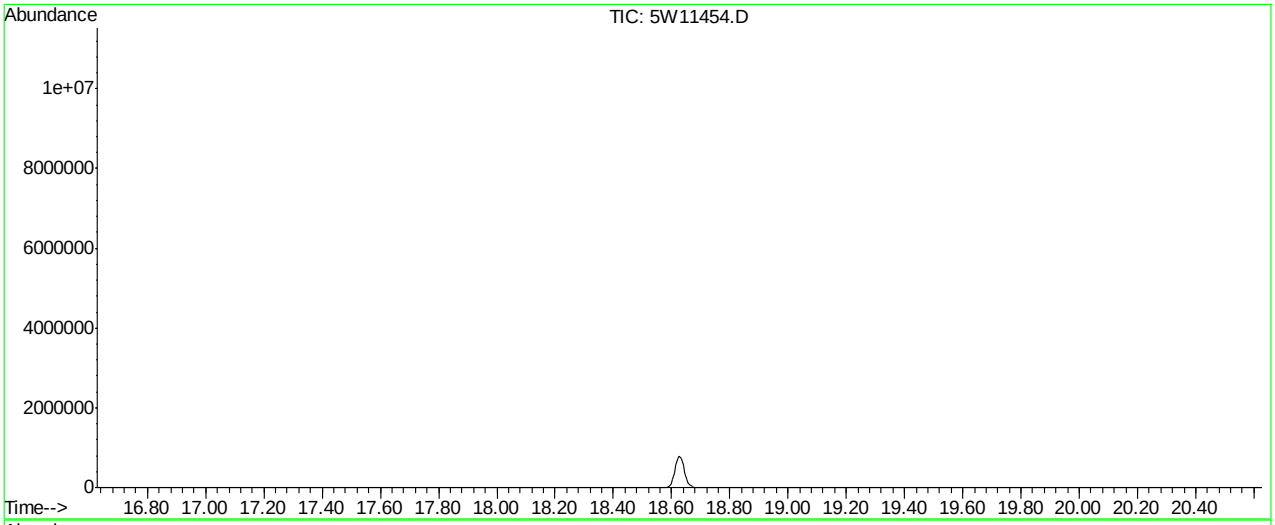
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.05	3411	111.90	35	135.00	191	149.00	71
93.05	5188	112.95	77	136.95	200	149.95	130
94.10	14847	114.95	144	139.95	112	154.95	349
95.10	135522	116.00	444	141.00	1097	155.90	40
96.10	9104	117.00	787	141.95	142	157.00	252
97.05	265	117.90	472	142.95	1150	158.90	145
103.95	541	118.95	654	144.00	34	160.90	97
104.95	181	127.95	412	144.90	148	171.95	402
105.95	531	128.95	238	145.95	179	174.00	118901
106.95	93	129.90	453	146.90	40	175.00	8973
111.00	73	130.95	186	147.90	313	176.00	114240

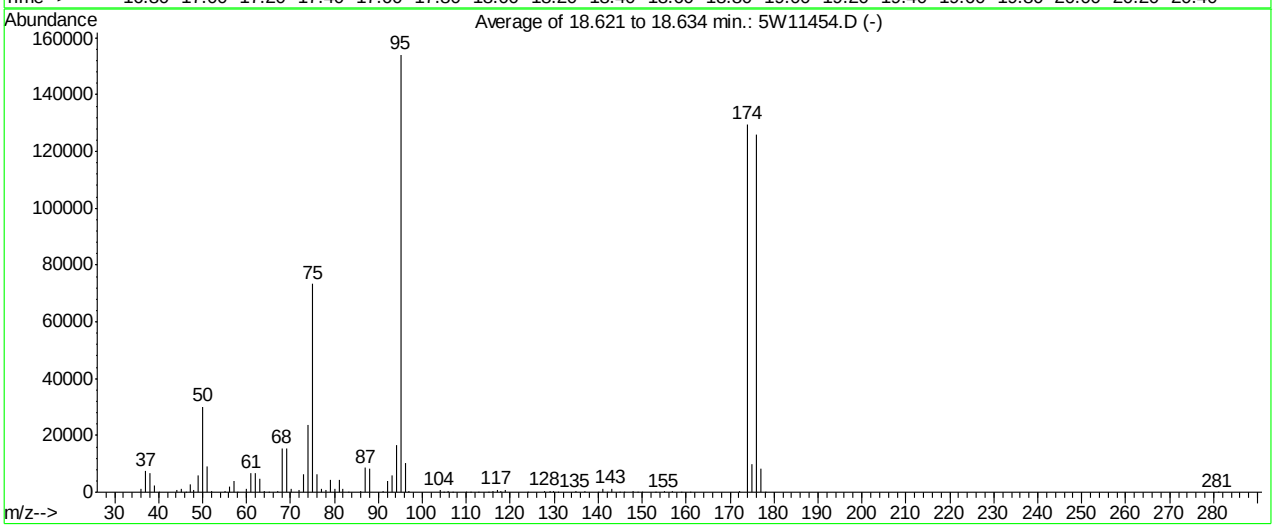
Average of 18.621 to 18.633 min.: 5W11425.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
177.00	7735						
177.95	212						
281.10	45						

BFB

Data File : C:\MSDCHEM\1\DATA\5W_CORE\5W11454.D Vial: 1
Acq On : 9 May 2015 6:52 am Operator: mikel1
Sample : BFB Inst : GCMS5W
Misc : MS84855,v5w450,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\MW2041.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um





AutoFind: Scans 2433, 2434, 2435; Background Corrected with Scan 2422

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.5	30088	PASS
75	95	30	66	47.6	73346	PASS
95	95	100	100	100.0	154154	PASS
96	95	5	9	6.6	10196	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	84.0	129514	PASS
175	174	4	9	7.6	9821	PASS
176	174	93	101	97.2	125834	PASS
177	176	5	9	6.6	8318	PASS

5W11454.D MW2041.M Sat May 09 15:00:57 2015 MSW

Average of 18.621 to 18.634 min.: 5W11454.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	1255	50.10	30088	64.05	466	77.00	1061
37.10	7334	51.10	9123	65.05	83	78.00	751
38.10	6572	52.05	415	67.05	394	79.00	4365
39.10	2538	55.05	382	68.10	15425	80.00	1316
40.00	170	56.10	2183	69.10	15594	81.00	4385
44.05	837	57.10	4108	70.05	1161	81.95	1057
45.10	1354	58.00	197	72.05	762	83.10	39
46.10	74	60.00	1343	73.05	6439	85.95	243
47.10	2586	61.10	6826	74.10	23882	87.00	8565
48.00	906	62.10	6736	75.10	73346	88.00	8314
49.10	6124	63.10	4713	76.10	6357	90.95	499

Average of 18.621 to 18.634 min.: 5W11454.D
BFB
Modified:subtracted

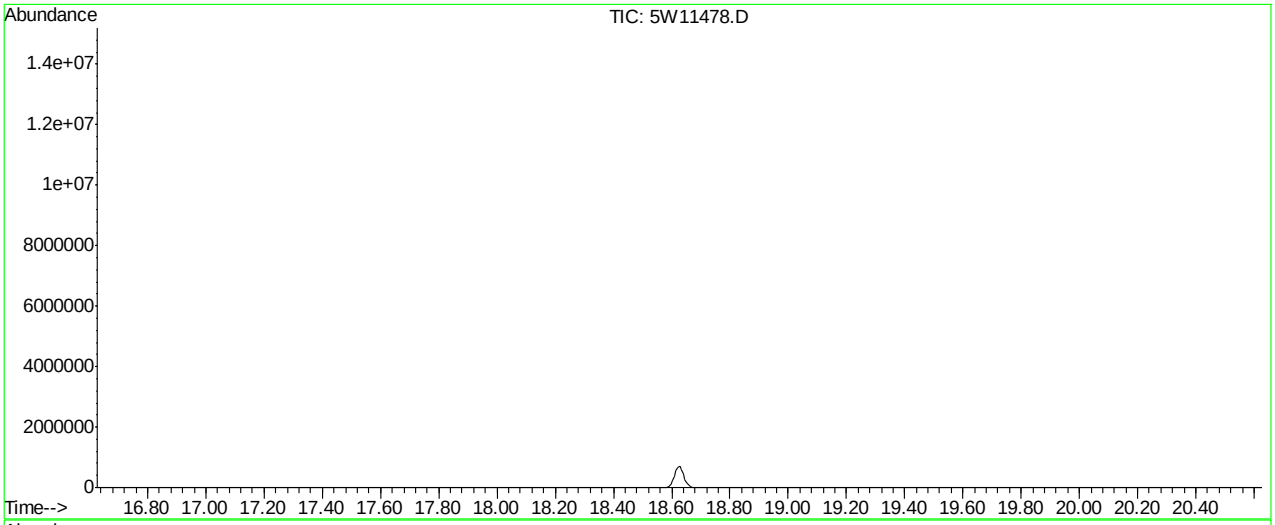
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.05	3805	110.95	122	130.95	186	149.90	159
93.05	5757	112.85	118	134.90	249	152.95	85
94.10	16610	114.95	162	136.95	247	155.00	351
95.10	154154	115.95	470	140.00	44	156.95	225
96.10	10196	117.00	873	140.95	1216	158.85	149
97.00	278	117.95	513	141.95	156	160.90	150
103.95	674	118.90	694	143.00	1270	172.05	247
104.95	195	123.90	46	144.90	37	174.00	129514
105.90	585	127.90	506	145.95	205	175.00	9821
106.95	144	128.95	230	147.95	315	176.00	125834
109.90	34	129.90	497	148.90	37	177.00	8318

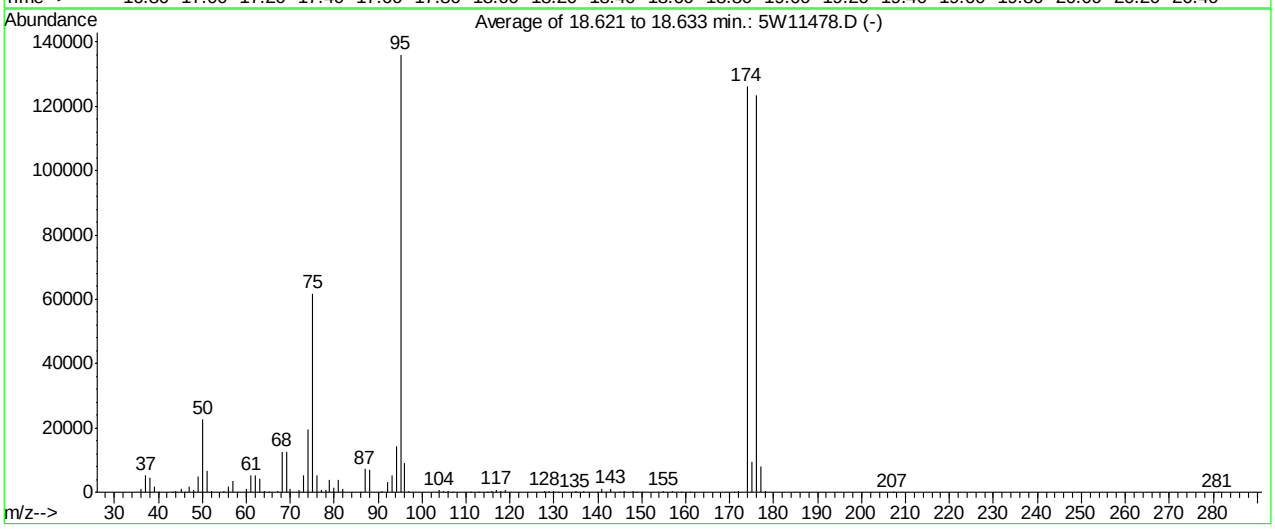
Average of 18.621 to 18.634 min.: 5W11454.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
177.95	215						
281.00	32						

BFB

Data File : C:\MSDCHEM\1\DATA\5W_CORE\5W11478.D Vial: 1
Acq On : 11 May 2015 7:33 am Operator: mikel1
Sample : BFB Inst : GCMS5W
Misc : MS84920,v5w451,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\MW2041.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um





AutoFind: Scans 2433, 2434, 2435; Background Corrected with Scan 2422

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.7	22712	PASS
75	95	30	66	45.4	61826	PASS
95	95	100	100	100.0	136141	PASS
96	95	5	9	6.6	8925	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	92.7	126245	PASS
175	174	4	9	7.5	9410	PASS
176	174	93	101	97.7	123282	PASS
177	176	5	9	6.4	7942	PASS

5W11478.D MW2041.M Tue May 12 08:06:38 2015 MSW

Average of 18.621 to 18.633 min.: 5W11478.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	960	49.10	4790	63.10	4107	76.10	5252
37.10	5272	50.10	22712	64.05	438	77.00	881
38.10	4625	51.10	6813	65.05	104	78.00	694
39.10	1933	52.05	327	67.05	325	79.00	3916
40.00	63	55.00	311	68.10	12664	79.95	1327
43.10	33	56.05	1750	69.10	12695	81.00	3890
44.00	480	57.05	3343	70.05	934	81.95	932
45.10	1045	58.05	141	72.05	658	86.05	171
46.10	41	60.00	1110	73.10	5389	87.00	7311
47.05	1894	61.10	5350	74.10	19701	88.00	7027
48.05	669	62.10	5332	75.10	61826	91.00	480

Average of 18.621 to 18.633 min.: 5W11478.D
BFB
Modified:subtracted

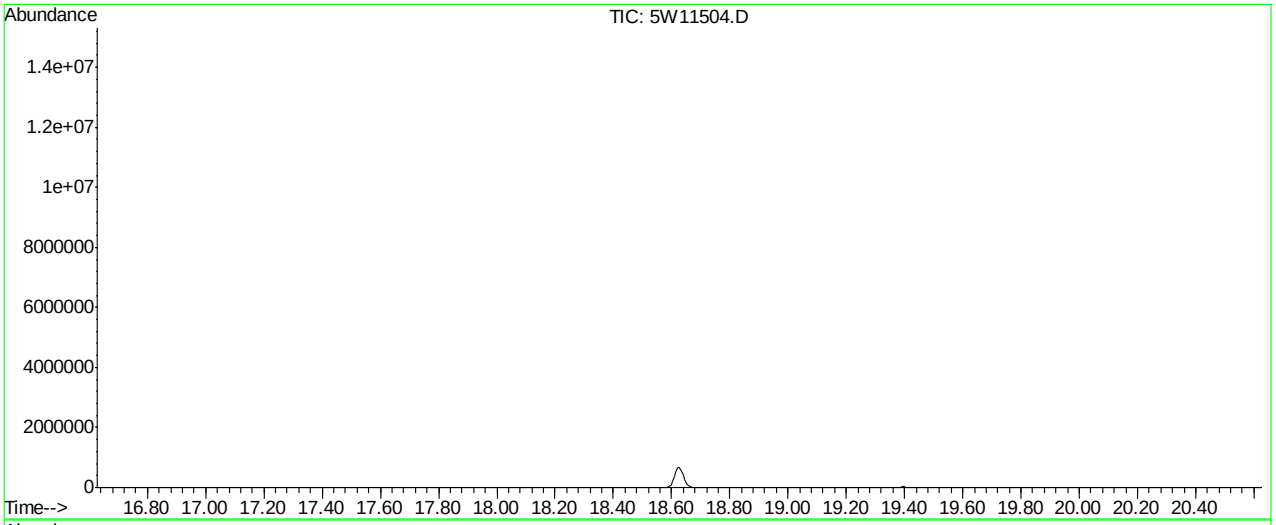
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.05	3312	112.90	37	136.90	220	156.95	273
93.05	5083	114.95	148	139.95	73	158.95	158
94.10	14466	115.90	423	140.95	1102	160.95	126
95.10	136141	116.95	753	141.95	170	171.00	36
96.10	8925	117.90	468	142.95	1185	172.00	299
97.00	265	119.00	640	144.95	163	174.00	126245
103.95	552	127.95	488	145.90	215	175.00	9410
104.95	201	129.00	232	147.90	307	176.00	123282
106.00	500	129.90	464	148.85	80	177.00	7942
106.90	154	130.95	160	149.95	131	178.00	219
111.00	70	134.90	211	154.95	367	207.10	73

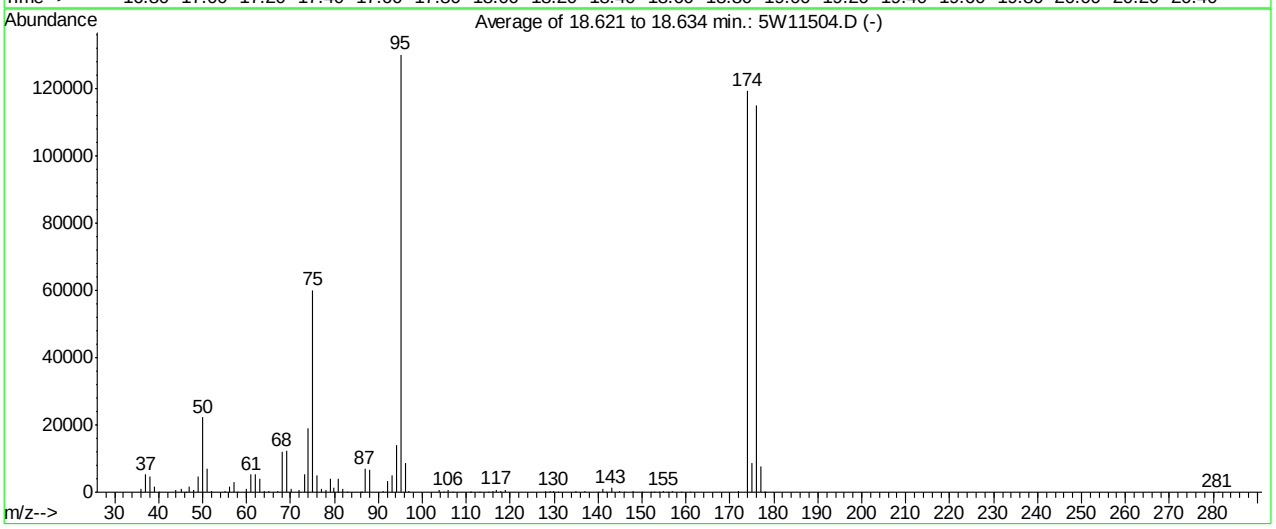
Average of 18.621 to 18.633 min.: 5W11478.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
281.10	37						

BFB

```
Data File : C:\MSDCHEM\1\DATA\5W_CORE\5W11504.D          Vial: 1
Acq On    : 12 May 2015   6:58 am                    Operator: mikel1
Sample    : BFB                                      Inst    : GCMS5W
Misc      : MS84578,v5w452,,,,,1                     Multiplr: 1.00
MS Integration Params: rteint.p
Method    : C:\MSDCHEM\1\METHODS\MW2047.M (RTE Integrator)
Title     : TO15 by GCMS w/Rtx-1, 60m  X 0.32mm ID X 1.0 um
```





AutoFind: Scans 2433, 2434, 2435; Background Corrected with Scan 2422

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.1	22328	PASS
75	95	30	66	46.1	60045	PASS
95	95	100	100	100.0	130202	PASS
96	95	5	9	6.6	8655	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	91.6	119312	PASS
175	174	4	9	7.3	8712	PASS
176	174	93	101	96.5	115165	PASS
177	176	5	9	6.5	7524	PASS

5W11504.D MW2047.M Wed May 13 10:16:42 2015 MSW

Average of 18.621 to 18.634 min.: 5W11504.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	944	50.10	22328	64.10	411	77.00	899
37.10	5212	51.10	6981	65.05	210	78.00	609
38.10	4765	52.05	325	67.10	338	79.00	3873
39.10	1819	55.05	369	68.10	12120	79.95	1251
40.00	44	56.10	1743	69.10	12185	81.00	3920
44.00	513	57.05	3154	70.05	956	81.95	1028
45.05	1060	58.00	139	72.05	608	83.00	41
46.10	38	60.05	1080	73.10	5377	85.90	133
47.05	1834	61.10	5226	74.10	19136	86.20	54
48.00	647	62.10	5286	75.10	60045	87.00	6988
49.10	4543	63.10	3996	76.10	5071	88.00	6645

Average of 18.621 to 18.634 min.: 5W11504.D
BFB
Modified:subtracted

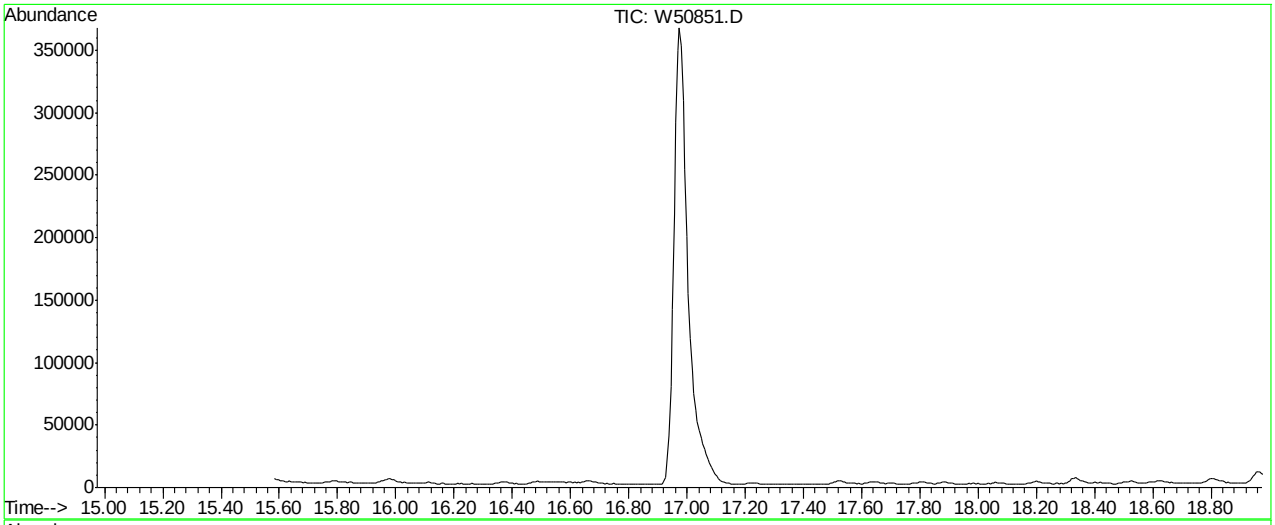
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
91.00	432	110.90	83	130.95	152	152.00	33
92.00	3289	111.10	34	134.95	194	152.90	49
93.05	4872	112.90	91	136.95	219	153.90	42
94.10	14068	114.95	86	140.00	72	154.95	350
95.10	130202	115.95	426	141.00	1066	155.90	46
96.10	8655	116.95	741	141.95	148	156.95	231
97.05	275	117.95	445	143.00	1259	158.95	124
103.90	518	118.90	586	145.00	211	160.95	131
104.95	164	127.95	437	145.95	182	172.00	488
105.95	524	129.00	185	147.95	275	174.00	119312
106.90	124	129.95	462	149.90	123	175.00	8712

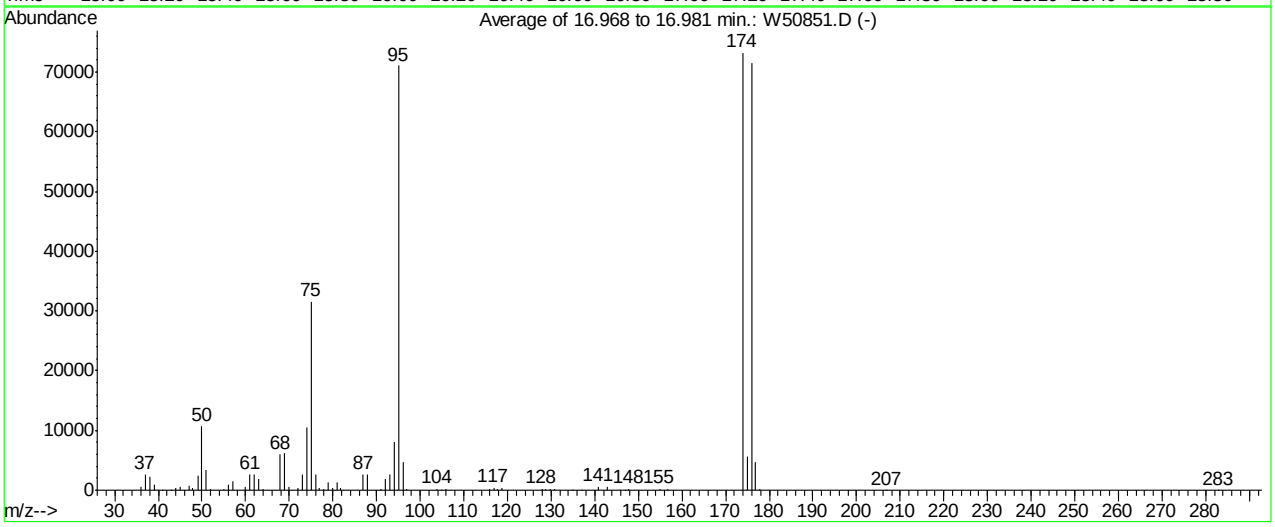
Average of 18.621 to 18.634 min.: 5W11504.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
176.00	115165						
177.00	7524						
177.90	122						
178.10	69						
281.05	70						

BFB

Data File : C:\MSDCHEM\1\DATA\W50851.D Vial: 5
Acq On : 8 Apr 2015 8:23 pm Operator: danat
Sample : BFB Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um





AutoFind: Scans 228, 229, 230; Background Corrected with Scan 216

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.1	10727	PASS
75	95	30	66	44.4	31557	PASS
95	95	100	100	100.0	71090	PASS
96	95	5	9	6.7	4747	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	103.1	73264	PASS
175	174	4	9	7.7	5655	PASS
176	174	93	101	97.7	71568	PASS
177	176	5	9	6.6	4745	PASS

W50851.D MW2031.M Thu Apr 09 18:00:04 2015 MSW

Average of 16.968 to 16.981 min.: W50851.D
BFB
Modified:subtracted

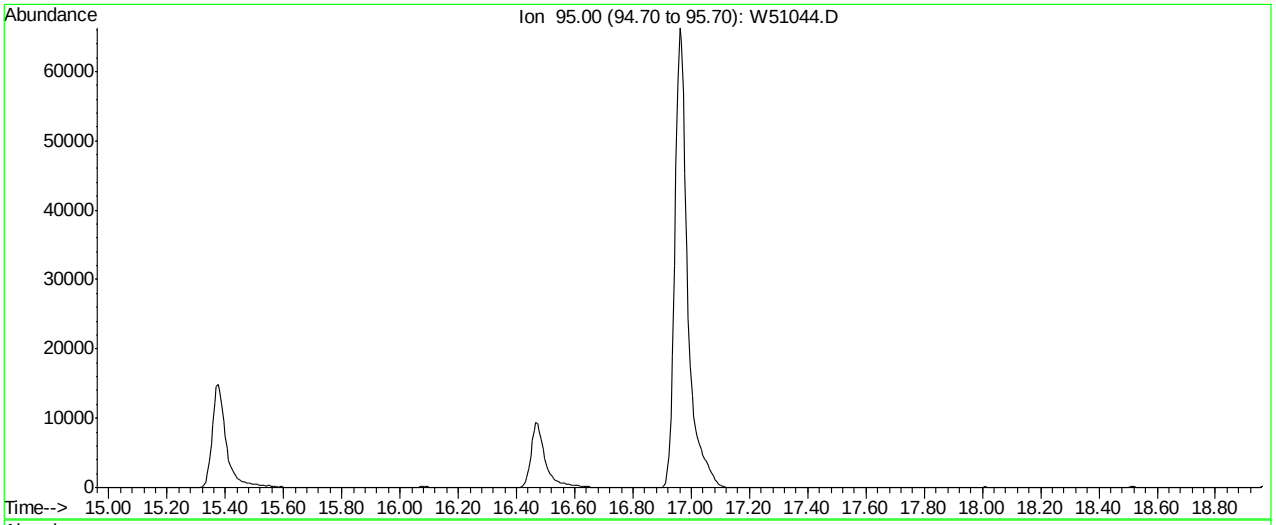
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	516	49.00	2378	63.95	158	78.90	1350
37.00	2688	50.00	10727	67.95	6029	79.90	414
38.00	2317	51.00	3438	68.95	6115	80.85	1387
39.00	959	51.95	144	69.95	486	81.85	313
39.90	50	54.95	230	71.95	354	86.90	2722
41.00	7	55.95	855	72.90	2721	87.90	2601
43.00	23	57.00	1601	74.00	10431	90.90	200
43.90	316	59.90	569	75.00	31557	91.90	1800
44.95	600	60.95	2643	76.00	2706	92.95	2720
47.00	683	62.00	2655	76.95	357	94.00	8069
47.95	336	62.95	1940	77.90	266	95.00	71090

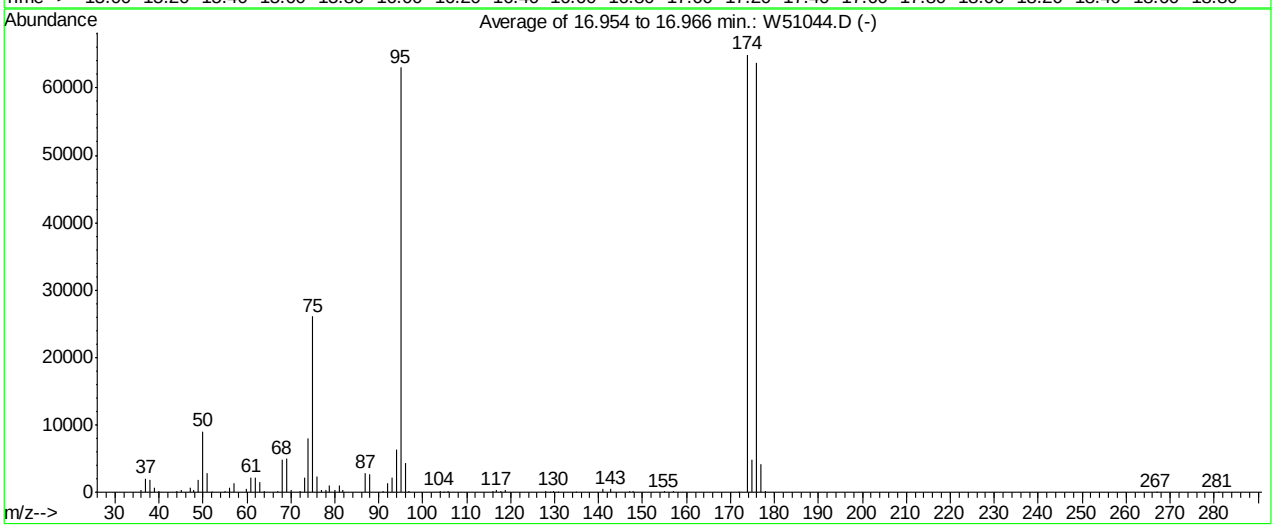
Average of 16.968 to 16.981 min.: W50851.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
96.00	4747	129.80	235	173.90	73264		
96.95	184	130.85	116	174.90	5655		
103.85	240	134.80	77	175.90	71568		
104.80	35	136.85	80	176.90	4745		
105.85	238	140.85	603	177.85	137		
115.80	210	142.80	603	206.90	26		
116.85	401	145.80	40	282.90	35		
117.80	226	146.95	91				
118.85	324	147.85	193				
127.85	247	154.85	190				
128.85	124	156.85	132				

BFB

Data File : C:\MSDCHEM\1\DATA\W51044.D Vial: 3
Acq On : 23 Apr 2015 10:29 am Operator: mikel1
Sample : BFB Inst : MSW
Misc : MS83902,VW2039,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um





AutoFind: Scans 1989, 1990, 1991; Background Corrected with Scan 1978

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	14.4	9071	PASS
75	95	30	66	41.3	26050	PASS
95	95	100	100	100.0	63013	PASS
96	95	5	9	6.8	4280	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	103.1	64970	PASS
175	174	4	9	7.6	4908	PASS
176	174	93	101	98.0	63658	PASS
177	176	5	9	6.7	4241	PASS

W51044.D MW2031.M Fri Apr 24 12:18:52 2015 MSW

Average of 16.954 to 16.966 min.: W51044.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	379	51.00	2754	68.00	4867	79.90	332
37.00	2086	52.00	77	69.00	5061	80.90	1022
38.00	1819	54.95	133	69.95	410	81.85	256
39.00	737	55.95	632	72.00	254	86.90	2897
39.95	108	57.00	1268	73.00	2190	87.90	2735
44.00	218	59.95	451	74.00	8048	90.90	203
45.00	408	61.00	2171	75.00	26050	91.95	1384
47.00	722	62.00	2089	76.00	2291	93.00	2201
47.95	280	63.00	1508	76.90	374	94.00	6372
49.00	1874	64.00	158	77.90	280	95.00	63013
50.00	9071	66.95	129	78.85	992	96.00	4280

Average of 16.954 to 16.966 min.: W51044.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
96.95	129	130.80	74	175.90	63658		
103.90	233	134.90	37	176.90	4241		
104.80	35	140.85	428	177.90	98		
105.85	200	142.85	460	266.90	84		
115.90	159	146.95	113	280.95	29		
116.85	286	147.85	135				
117.80	169	154.90	148				
118.85	276	156.90	115				
127.90	180	171.85	71				
128.85	73	173.90	64970				
129.85	194	174.90	4908				

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46967.D Vial: 1
Acq On : 14 Apr 2015 5:16 pm Operator: YOUMINH
Sample : ICC1782-10 Inst : MS3W
Misc : MS83225,V3W1782,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 09:48:48 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 09:47:29 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.16	128	112295	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	8.74	114	501152	10.00	PPBV	0.00
71) CHLOROBENZENE-D5	12.88	82	248358	10.00	PPBV	0.00
System Monitoring Compounds						
86) 4-BROMOFLUOROBENZENE	14.52	95	298712	10.00	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery =	100.00%		
Target Compounds						Qvalue
4) FREON 152A	4.23	65	99547	10.00	PPBV	100
5) CHLORODIFLUOROMETHANE	4.26	67	38728	10.00	PPBV	100
6) DICHLORODIFLUOROMETHANE	4.31	85	386187	10.00	PPBV	100
7) PROPYLENE	4.27	41	127850	10.00	PPBV	100
9) FREON 114	4.44	85	397746	10.00	PPBV	100
10) CHLOROMETHANE	4.41	50	177008	10.00	PPBV	100
11) VINYL CHLORIDE	4.52	62	171525	10.00	PPBV	100
12) 1,3-BUTADIENE	4.58	54	125834	10.00	PPBV	100
13) n-BUTANE	4.60	43	244338	10.00	PPBV	100
14) BROMOMETHANE	4.74	94	149722	10.00	PPBV	100
15) CHLOROETHANE	4.82	64	89707	10.00	PPBV	100
16) DICHLOROFLUOROMETHANE	4.87	67	340259	10.00	PPBV	100
17) ACETONITRILE	5.04	41	108259	10.00	PPBV	100
18) FREON 123	5.08	83	354502	10.00	PPBV	100
19) FREON 123A	5.11	117	189750	10.00	PPBV	100
20) TRICHLOROFLUOROMETHANE	5.23	101	364466	10.00	PPBV	100
22) ISOPROPYL ALCOHOL	5.29	45	270065	10.00	PPBV	100
23) ACETONE	5.15	58	65975	10.00	PPBV	100
24) PENTANE	5.40	42	171204	10.00	PPBV	100
25) TVHC as EQUIV PENTANE	5.40	TIC	925900m	10.01	PPBV	
26) IODOMETHANE	5.57	142	373483	10.00	PPBV	100
27) 1,1-DICHLOROETHYLENE	5.61	96	142036	10.00	PPBV	100
28) CARBON DISULFIDE	5.87	76	425575	10.00	PPBV	100
29) ETHANOL	4.91	45	61193	10.00	PPBV	100
30) BROMOETHENE	5.01	106	146509	10.00	PPBV	100
31) ACRYLONITRILE	5.43	52	86018	10.00	PPBV	100
32) METHYLENE CHLORIDE	5.69	84	125488	10.00	PPBV	100
33) 3-CHLOROPROPENE	5.75	76	69060	10.00	PPBV	100
34) FREON 113	5.82	151	219712	10.00	PPBV	100
35) TRANS-1,2-DICHLOROETHYLENE	6.26	96	144735	10.00	PPBV	100
36) TERTIARY BUTYL ALCOHOL	5.63	59	344073	10.00	PPBV	100
37) METHYL TERTIARY BUTYL ETHE	6.42	73	385540	10.00	PPBV	100
38) TETRAHYDROFURAN	7.55	72	66384	10.00	PPBV	100
39) HEXANE	7.09	57	235585	10.00	PPBV	100
40) VINYL ACETATE	6.51	86	28573	10.00	PPBV	100
41) 1,1-DICHLOROETHANE	6.41	63	273042	10.02	PPBV	100
42) METHYL ETHYL KETONE	6.68	72	65762	10.00	PPBV	100
43) cis-1,2-DICHLOROETHYLENE	7.05	96	147229	10.00	PPBV	100
44) DIISOPROPYL ETHER	7.11	59	57138	10.00	PPBV	100
45) ETHYL ACETATE	7.18	61	52519	10.00	PPBV	100
46) METHYL ACRYLATE	7.19	55	227204	10.00	PPBV	100
47) CHLOROFORM	7.25	83	292351	10.00	PPBV	100
48) 2,4-DIMETHYLPENTANE	7.78	57	281573	10.00	PPBV	100
49) 1,1,1-TRICHLOROETHANE	8.03	97	283523	10.00	PPBV	100
50) CARBON TETRACHLORIDE	8.55	117	302566	10.00	PPBV	100
51) 1,2-DICHLOROETHANE	7.83	62	171354	10.00	PPBV	100
53) BENZENE	8.43	78	433761	10.00	PPBV	100
54) CYCLOHEXANE	8.59	84	245578	10.00	PPBV	100
55) 2,3-DIMETHYLPENTANE	8.78	71	101382	10.00	PPBV	100

(#) = qualifier out of range (m) = manual integration
3W46967.D M3W1782.M Thu Apr 16 11:22:41 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46967.D Vial: 1
Acq On : 14 Apr 2015 5:16 pm Operator: YOUMINH
Sample : ICC1782-10 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 09:48:48 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 09:47:29 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

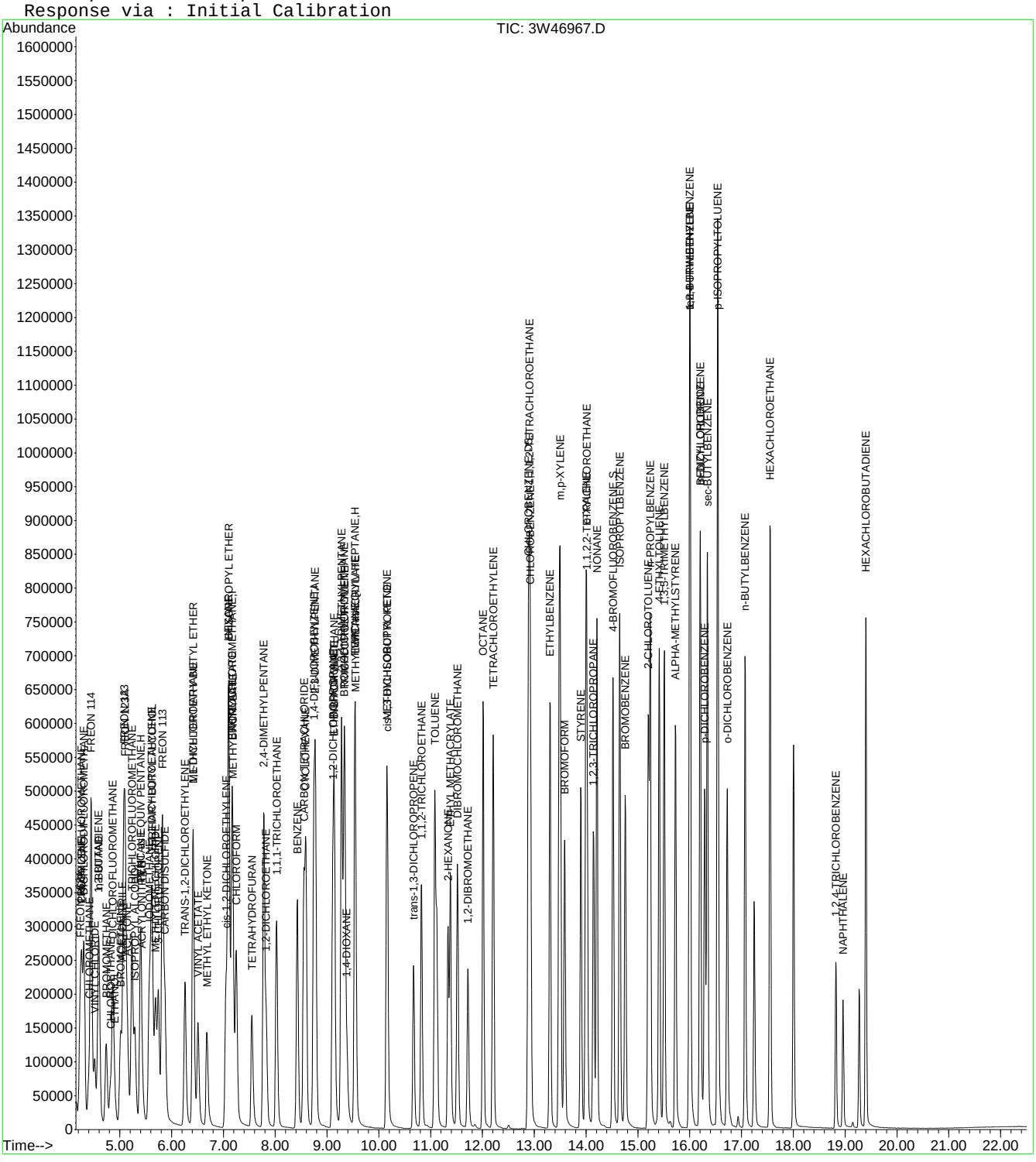
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
56)	TRICHLOROETHYLENE	9.35	95	185017	9.99	PPBV	100
57)	1,2-DICHLOROPROPANE	9.11	63	166789	10.02	PPBV	100
58)	DIBROMOMETHANE	9.13	174	162771	10.00	PPBV	100
59)	ETHYL ACRYLATE	9.15	55	292547	10.00	PPBV	100
60)	BROMODICHLOROMETHANE	9.32	83	301408	10.00	PPBV	100
61)	2,2,4-TRIMETHYLPENTANE	9.28	57	711745	10.00	PPBV	100
62)	1,4-DIOXANE	9.38	88	96368	10.00	PPBV	100
63)	HEPTANE	9.54	43	264625	10.00	PPBV	100
64)	TVHC as EQUIV HEPTANE	9.54	TIC	1762452m	10.10	PPBV	
65)	METHYL METHACRYLATE	9.55	69	146156	10.00	PPBV	100
66)	METHYL ISOBUTYL KETONE	10.15	58	128464	10.00	PPBV	100
67)	cis-1,3-DICHLOROPROPENE	10.17	75	227321	10.00	PPBV	100
68)	TOLUENE	11.08	92	284658	10.00	PPBV	100
69)	trans-1,3-DICHLOROPROPENE	10.67	75	191113	10.00	PPBV	100
70)	1,1,2-TRICHLOROETHANE	10.82	83	144683	10.00	PPBV	100
72)	2-HEXANONE	11.34	58	168250	10.00	PPBV	100
73)	ETHYL METHACRYLATE	11.38	69	242834	10.00	PPBV	100
74)	TETRACHLOROETHYLENE	12.21	164	182946	10.00	PPBV	100
75)	DIBROMOCHLOROMETHANE	11.52	129	287733	10.00	PPBV	100
76)	1,2-DIBROMOETHANE	11.72	107	228780	10.00	PPBV	100
77)	OCTANE	12.01	43	349792	10.00	PPBV	100
78)	1,1,1,2-TETRACHLOROETHANE	12.91	131	211110	10.00	PPBV	100
79)	CHLOROBENZENE	12.93	112	344857	10.00	PPBV	100
80)	ETHYLBENZENE	13.31	91	605521	10.00	PPBV	100
81)	m,p-XYLENE	13.50	106	458834	20.00	PPBV	100
82)	o-XYLENE	13.99	106	224309	10.00	PPBV	100
83)	STYRENE	13.90	104	324002	10.00	PPBV	100
84)	NONANE	14.21	43	339698	10.00	PPBV	100
85)	BROMOFORM	13.59	173	279440	10.00	PPBV	100
87)	1,1,2,2-TETRACHLOROETHANE	14.02	83	352351	10.00	PPBV	100
88)	1,2,3-TRICHLOROPROPANE	14.14	75	258351	10.00	PPBV	100
89)	ISOPROPYLBENZENE	14.65	105	668171	10.00	PPBV	100
90)	BROMOBENZENE	14.76	77	296601	10.00	PPBV	100
91)	2-CHLOROTOLUENE	15.20	126	158556	10.00	PPBV	100
92)	n-PROPYLBENZENE	15.24	120	170768	10.00	PPBV	100
93)	4-ETHYLTOLUENE	15.41	105	606434	10.00	PPBV	100
94)	1,3,5-TRIMETHYLBENZENE	15.51	105	527570	10.00	PPBV	100
95)	ALPHA-METHYLSTYRENE	15.72	118	246984	10.00	PPBV	100
96)	tert-BUTYLBENZENE	16.00	134	118391	10.00	PPBV	100
97)	1,2,4-TRIMETHYLBENZENE	16.01	105	508067	10.00	PPBV	100
98)	m-DICHLOROBENZENE	16.20	146	298032	10.00	PPBV	100
99)	BENZYL CHLORIDE	16.20	91	382906	10.00	PPBV	100
100)	p-DICHLOROBENZENE	16.29	146	291061	10.00	PPBV	100
101)	sec-BUTYLBENZENE	16.34	134	142323	10.00	PPBV	100
102)	p-ISOPROPYLTOLUENE	16.54	134	150288	10.00	PPBV	100
103)	o-DICHLOROBENZENE	16.73	146	290698	10.00	PPBV	100
104)	n-BUTYLBENZENE	17.07	134	125549	10.00	PPBV	100
105)	HEXACHLOROETHANE	17.55	117	226616	10.00	PPBV	100
106)	HEXACHLOROBUTADIENE	19.40	225	174725	10.00	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.83	180	102461	10.00	PPBV	100
108)	NAPHTHALENE	18.96	128	188689	10.01	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46967.D
Vial: 1
Acq On : 14 Apr 2015 5:16 pm
Operator: YOUMINH
Sample : ICC1782-10
Inst : MS3W
Misc : MS83225,V3W1782,,,,,1
Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 10:01 2015
Quant Results File: M3W1782.RES

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Initial Calibration

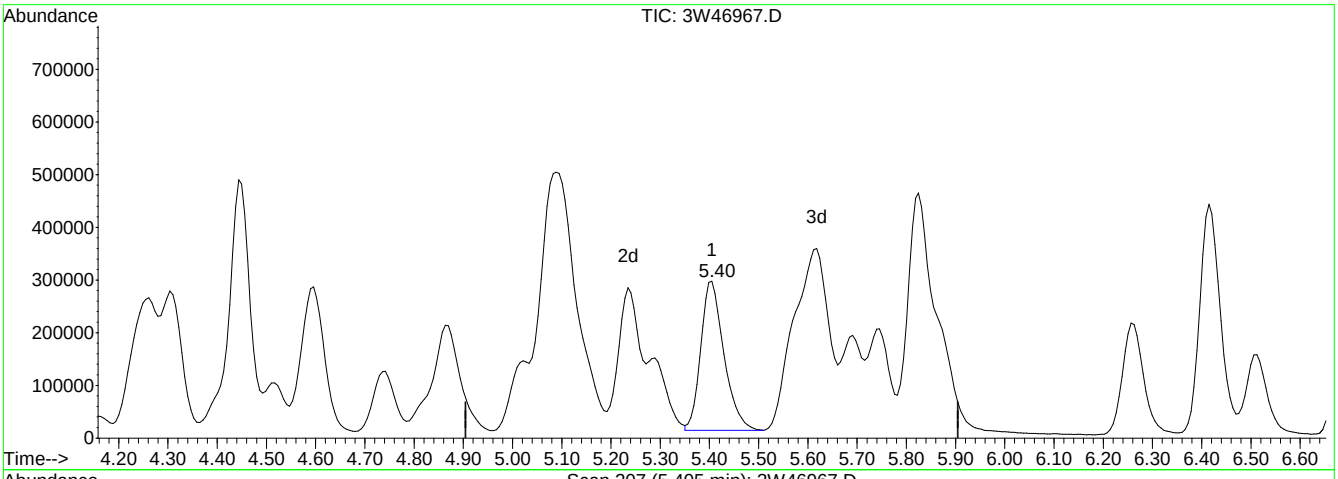


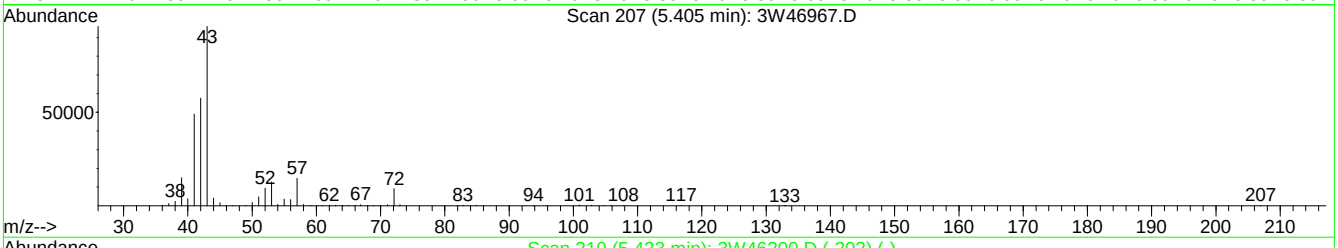
ACCUTEST LABORATORIES JB94203

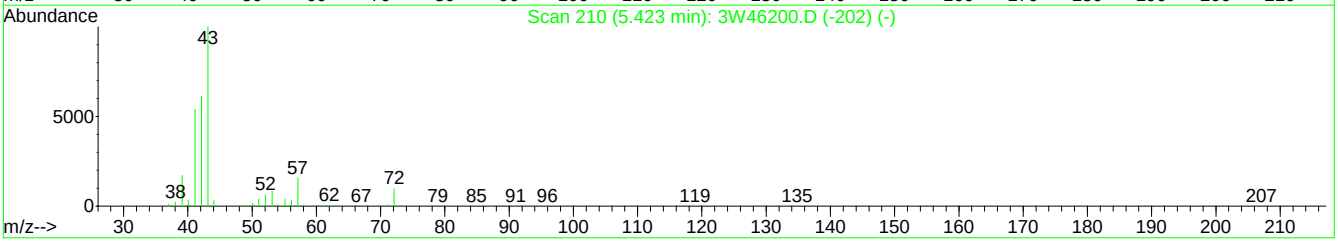
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W46967.D Vial: 1
Acq On : 14 Apr 2015 5:16 pm Operator: YOUMINH
Sample : ICC1782-10 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 10:01 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 10:07:57 2015
Response via : Multiple Level Calibration







TIC: 3W46967.D

(25) TVHC as EQUIV PENTANE (H)

5.40min 10.01PPBV m

response 925900

Signal	Exp%	Act%
TIC	100	100
0.00	2.50	2.50#
0.00	2.20	2.20#
0.00	0.00	0.00

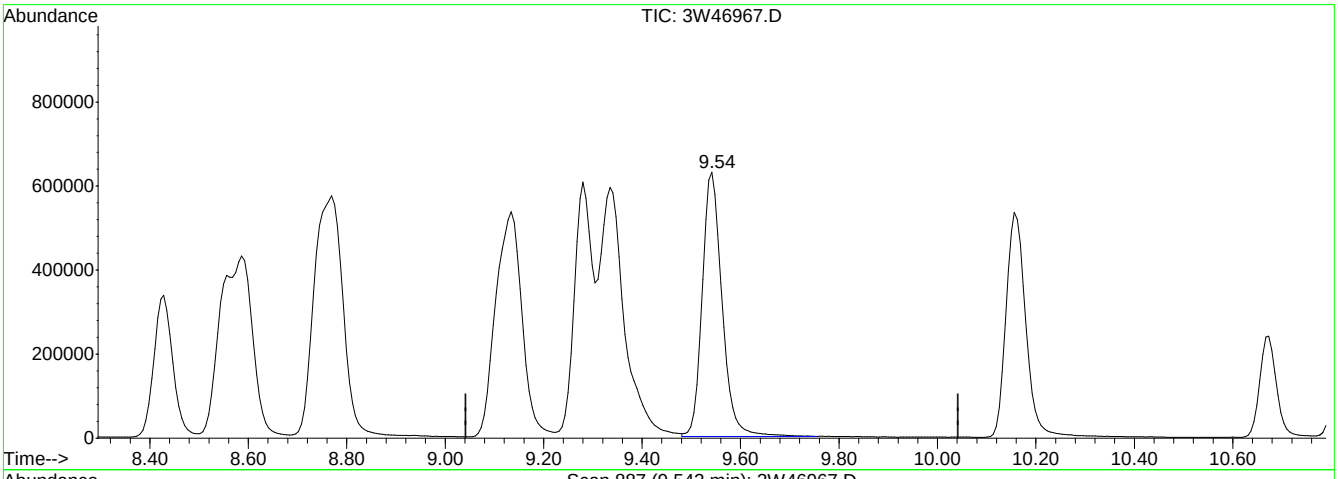
3W46967.D M3W1782.M Wed Apr 15 11:01:50 2015 MS3W

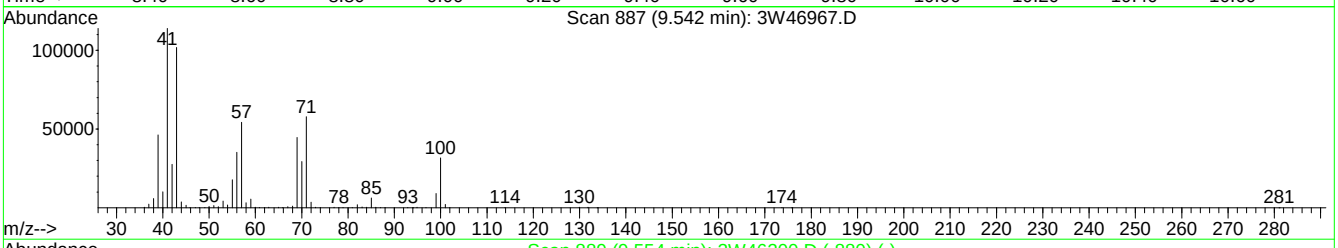
3W46967.D edits: TVHC as EQUIV PENTANE

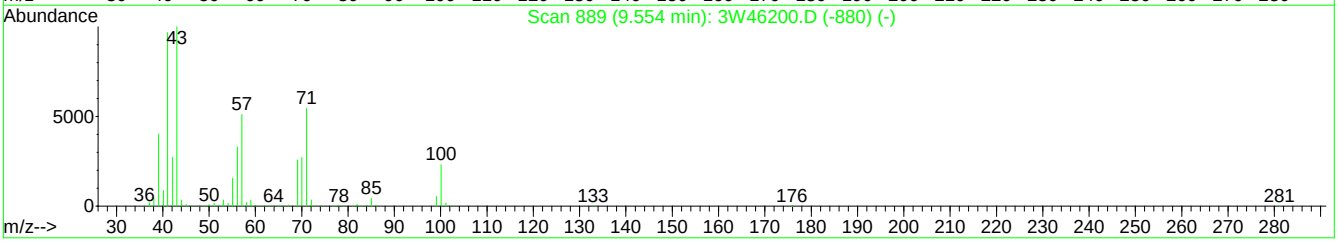
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W46967.D Vial: 1
Acq On : 14 Apr 2015 5:16 pm Operator: YOUMINH
Sample : ICC1782-10 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 10:01 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 10:07:57 2015
Response via : Multiple Level Calibration







TIC: 3W46967.D

(64) TVHC as EQUIV HEPTANE (H)

9.54min 10.10PPBV m

response 1762452

Signal	Exp%	Act%
TIC	100	100
0.00	1.30	1.31#
0.00	1.20	1.15#
0.00	0.00	0.00

3W46967.D M3W1782.M Wed Apr 15 11:08:14 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46968.D Vial: 1
Acq On : 14 Apr 2015 5:56 pm Operator: YOUMINH
Sample : IC1782-5 Inst : MS3W
Misc : MS83225,V3W1782,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 09:48:50 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 09:47:29 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.16	128	113399	10.00 PPBV	0.00
52) 1,4-DIFLUOROBENZENE	8.74	114	502994	10.00 PPBV	0.00
71) CHLOROBENZENE-D5	12.88	82	239551	10.00 PPBV	0.00
System Monitoring Compounds					
86) 4-BROMOFLUOROBENZENE	14.52	95	286378	9.94 PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery =	99.40%	
Target Compounds					Qvalue
4) FREON 152A	4.23	65	55750	5.55 PPBV	99
5) CHLORODIFLUOROMETHANE	4.26	67	21599	5.52 PPBV	99
6) DICHLORODIFLUOROMETHANE	4.31	85	217020	5.56 PPBV	99
7) PROPYLENE	4.27	41	70214	5.44 PPBV	100
9) FREON 114	4.44	85	224039	5.58 PPBV	99
10) CHLOROMETHANE	4.41	50	99324	5.56 PPBV	98
11) VINYL CHLORIDE	4.52	62	96267	5.56 PPBV	99
12) 1,3-BUTADIENE	4.58	54	68248	5.37 PPBV	98
13) n-BUTANE	4.61	43	135695	5.50 PPBV	99
14) BROMOMETHANE	4.74	94	83653	5.53 PPBV	99
15) CHLOROETHANE	4.83	64	49542	5.47 PPBV	100
16) DICHLOROFLUOROMETHANE	4.87	67	190796	5.55 PPBV	99
17) ACETONITRILE	5.05	41	57912	5.30 PPBV	99
18) FREON 123	5.08	83	201238	5.62 PPBV	99
19) FREON 123A	5.11	117	107781	5.62 PPBV	100
20) TRICHLOROFLUOROMETHANE	5.23	101	204990	5.57 PPBV	99
22) ISOPROPYL ALCOHOL	5.30	45	154101	5.65 PPBV	99
23) ACETONE	5.16	58	36330	5.45 PPBV	99
24) PENTANE	5.40	42	95781	5.54 PPBV	99
25) TVHC as EQUIV PENTANE	5.41	TIC	507627m	5.43 PPBV	
26) IODOMETHANE	5.57	142	210679	5.59 PPBV	99
27) 1,1-DICHLOROETHYLENE	5.61	96	78768	5.49 PPBV	100
28) CARBON DISULFIDE	5.87	76	236867	5.51 PPBV	98
29) ETHANOL	4.91	45	34818	5.63 PPBV	99
30) BROMOETHENE	5.02	106	81162	5.49 PPBV	99
31) ACRYLONITRILE	5.43	52	46662	5.37 PPBV	99
32) METHYLENE CHLORIDE	5.69	84	70976	5.60 PPBV	94
33) 3-CHLOROPROPENE	5.75	76	38232	5.48 PPBV	99
34) FREON 113	5.82	151	123018	5.54 PPBV	99
35) TRANS-1,2-DICHLOROETHYLENE	6.26	96	79582	5.44 PPBV	100
36) TERTIARY BUTYL ALCOHOL	5.63	59	197293	5.68 PPBV	99
37) METHYL TERTIARY BUTYL ETHE	6.42	73	214927	5.52 PPBV	100
38) TETRAHYDROFURAN	7.55	72	37931	5.66 PPBV	95
39) HEXANE	7.09	57	129161	5.43 PPBV	98
40) VINYL ACETATE	6.51	86	15267	5.29 PPBV	97
41) 1,1-DICHLOROETHANE	6.41	63	153319	5.57 PPBV	100
42) METHYL ETHYL KETONE	6.68	72	36296	5.47 PPBV	96
43) cis-1,2-DICHLOROETHYLENE	7.05	96	83137	5.59 PPBV	98
44) DIISOPROPYL ETHER	7.11	59	29651	5.14 PPBV #	84
45) ETHYL ACETATE	7.17	61	28866	5.44 PPBV	98
46) METHYL ACRYLATE	7.19	55	120057	5.23 PPBV	98
47) CHLOROFORM	7.24	83	163984	5.55 PPBV	99
48) 2,4-DIMETHYLPENTANE	7.78	57	156348	5.50 PPBV	100
49) 1,1,1-TRICHLOROETHANE	8.03	97	158689	5.54 PPBV	100
50) CARBON TETRACHLORIDE	8.55	117	167173	5.47 PPBV	99
51) 1,2-DICHLOROETHANE	7.82	62	94468	5.46 PPBV	100
53) BENZENE	8.42	78	241571	5.55 PPBV	100
54) CYCLOHEXANE	8.59	84	135766	5.51 PPBV	99
55) 2,3-DIMETHYLPENTANE	8.78	71	56475	5.55 PPBV	97

(#) = qualifier out of range (m) = manual integration
3W46968.D M3W1782.M Thu Apr 16 11:22:43 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46968.D Vial: 1
Acq On : 14 Apr 2015 5:56 pm Operator: YOUMINH
Sample : IC1782-5 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 09:48:50 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 09:47:29 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
56)	TRICHLOROETHYLENE	9.34	95	103250	5.56	PPBV	99
57)	1,2-DICHLOROPROPANE	9.10	63	90562	5.42	PPBV	99
58)	DIBROMOMETHANE	9.13	174	89308	5.47	PPBV	100
59)	ETHYL ACRYLATE	9.15	55	152432	5.19	PPBV	99
60)	BROMODICHLOROMETHANE	9.32	83	168480	5.57	PPBV	99
61)	2,2,4-TRIMETHYLPENTANE	9.27	57	396644	5.55	PPBV	100
62)	1,4-DIOXANE	9.40	88	53062	5.49	PPBV	98
63)	HEPTANE	9.54	43	146500	5.52	PPBV	100
64)	TVHC as EQUIV HEPTANE	9.54	TIC	961700m	5.49	PPBV	
65)	METHYL METHACRYLATE	9.55	69	78520	5.35	PPBV	98
66)	METHYL ISOBUTYL KETONE	10.15	58	68641	5.32	PPBV	99
67)	cis-1,3-DICHLOROPROPENE	10.16	75	121837	5.34	PPBV	98
68)	TOLUENE	11.08	92	154834	5.42	PPBV	100
69)	trans-1,3-DICHLOROPROPENE	10.67	75	100150	5.22	PPBV	99
70)	1,1,2-TRICHLOROETHANE	10.82	83	79124	5.45	PPBV	100
72)	2-HEXANONE	11.34	58	84583	5.21	PPBV	96
73)	ETHYL METHACRYLATE	11.38	69	127199	5.43	PPBV	89
74)	TETRACHLOROETHYLENE	12.21	164	101702	5.76	PPBV	99
75)	DIBROMOCHLOROMETHANE	11.51	129	155473	5.60	PPBV	99
76)	1,2-DIBROMOETHANE	11.72	107	123949	5.62	PPBV	98
77)	OCTANE	12.01	43	189380	5.61	PPBV	100
78)	1,1,1,2-TETRACHLOROETHANE	12.91	131	114533	5.62	PPBV	100
79)	CHLOROBENZENE	12.92	112	187468	5.64	PPBV	100
80)	ETHYLBENZENE	13.30	91	328371	5.62	PPBV	100
81)	m,p-XYLENE	13.49	106	247110	11.17	PPBV	99
82)	o-XYLENE	14.00	106	119924	5.54	PPBV	99
83)	STYRENE	13.90	104	167875	5.37	PPBV	99
84)	NONANE	14.21	43	187419	5.72	PPBV	99
85)	BROMOFORM	13.58	173	148370	5.50	PPBV	99
87)	1,1,2,2-TETRACHLOROETHANE	14.01	83	189121	5.56	PPBV	100
88)	1,2,3-TRICHLOROPROPANE	14.14	75	137730	5.53	PPBV	100
89)	ISOPROPYLBENZENE	14.65	105	362816	5.63	PPBV	100
90)	BROMOBENZENE	14.76	77	157304	5.50	PPBV	100
91)	2-CHLOROTOLUENE	15.20	126	85012	5.56	PPBV	100
92)	n-PROPYLBENZENE	15.24	120	90321	5.48	PPBV	99
93)	4-ETHYLTOLUENE	15.41	105	316756	5.41	PPBV	100
94)	1,3,5-TRIMETHYLBENZENE	15.50	105	283083	5.56	PPBV	99
95)	ALPHA-METHYLSTYRENE	15.72	118	125109	5.25	PPBV	99
96)	tert-BUTYLBENZENE	16.00	134	63484	5.56	PPBV	97
97)	1,2,4-TRIMETHYLBENZENE	16.01	105	267724	5.46	PPBV	98
98)	m-DICHLOROBENZENE	16.20	146	151179	5.26	PPBV	100
99)	BENZYL CHLORIDE	16.20	91	186119	5.04	PPBV	100
100)	p-DICHLOROBENZENE	16.29	146	147932	5.27	PPBV	99
101)	sec-BUTYLBENZENE	16.34	134	74252	5.41	PPBV	96
102)	p-ISOPROPYLTOLUENE	16.54	134	78333	5.40	PPBV	98
103)	o-DICHLOROBENZENE	16.72	146	150571	5.37	PPBV	100
104)	n-BUTYLBENZENE	17.07	134	63160	5.22	PPBV	100
105)	HEXACHLOROETHANE	17.55	117	122161	5.59	PPBV	99
106)	HEXACHLOROBUTADIENE	19.40	225	89878	5.33	PPBV	99
107)	1,2,4-TRICHLOROBENZENE	18.82	180	45770	4.63	PPBV	95
108)	NAPHTHALENE	18.96	128	81816	4.50	PPBV	99

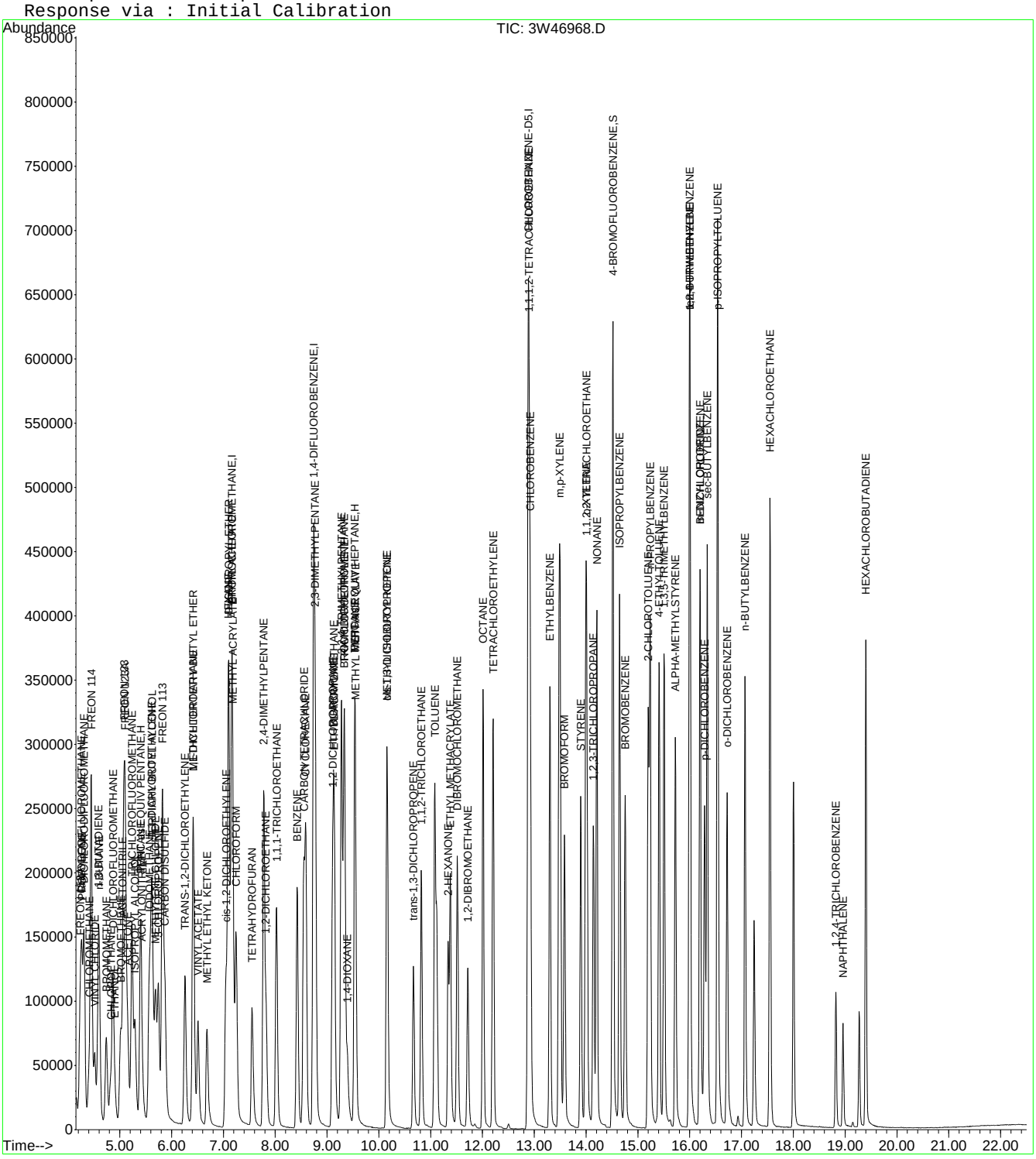
(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W46968.D M3W1782.M Thu Apr 16 11:22:43 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46968.D
Acq On : 14 Apr 2015 5:56 pm
Sample : IC1782-5
Misc : MS83225,V3W1782,,,,,1
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 9:50 2015

Vial: 1
Operator: YOUMINH
Inst : MS3W
Multiplr: 1.00
Quant Results File: M3W1782.RES

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Initial Calibration

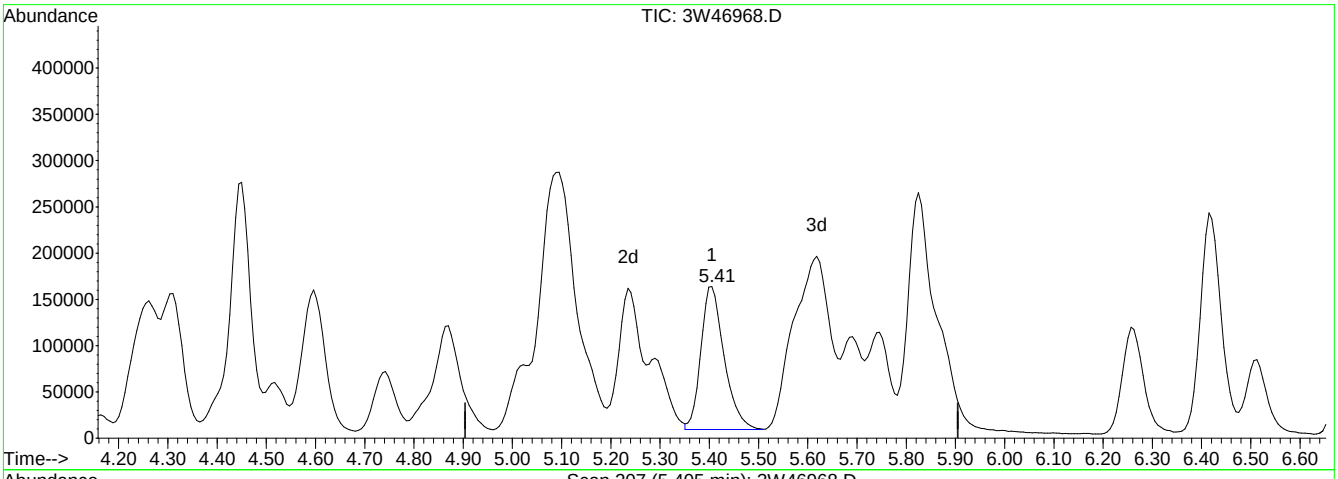


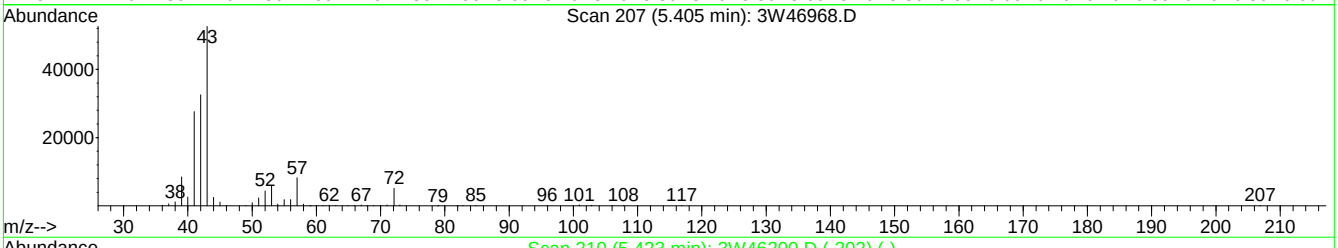
ACCUTEST LABORATORIES JB94203

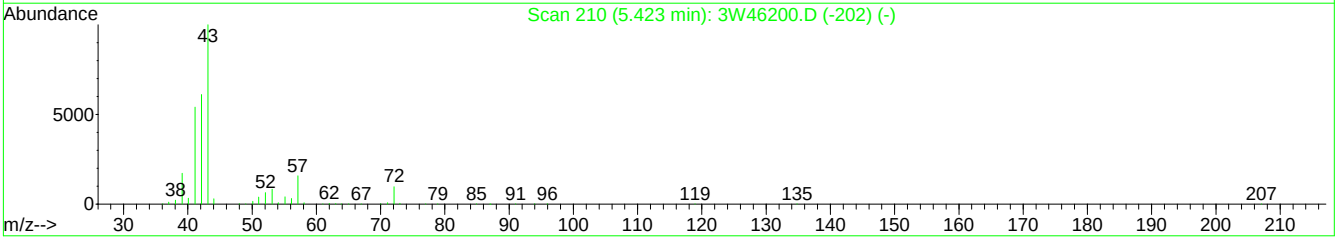
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W46968.D Vial: 1
Acq On : 14 Apr 2015 5:56 pm Operator: YOUMINH
Sample : IC1782-5 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 9:50 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 10:07:57 2015
Response via : Multiple Level Calibration







TIC: 3W46968.D

(25) TVHC as EQUIV PENTANE (H)

5.41min 5.43PPBV m

response 507627

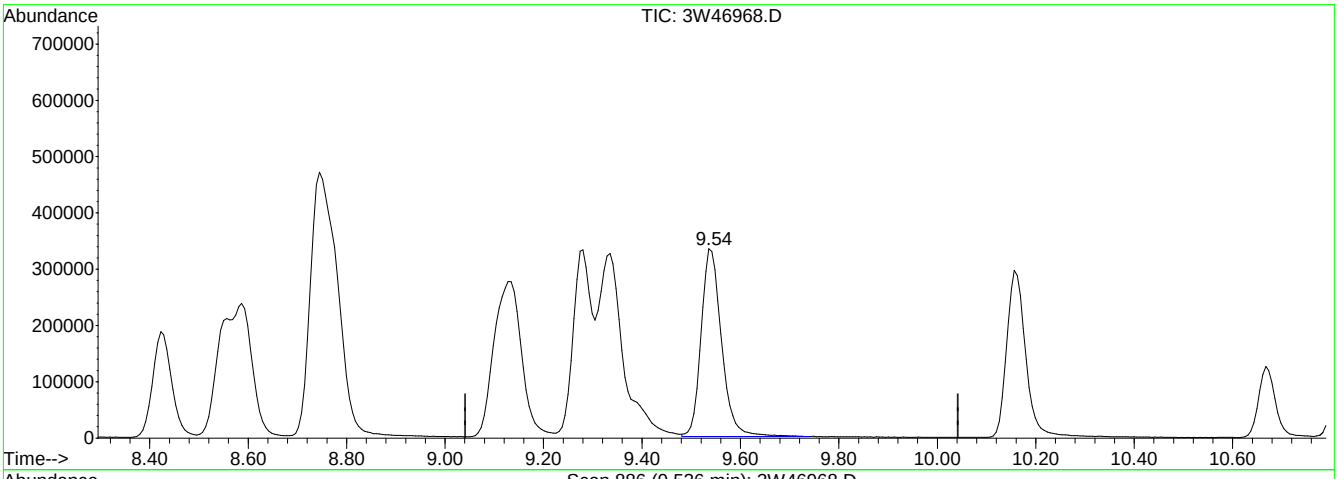
Signal	Exp%	Act%
TIC	100	100
0.00	2.50	1.92#
0.00	2.20	1.65#
0.00	0.00	0.00

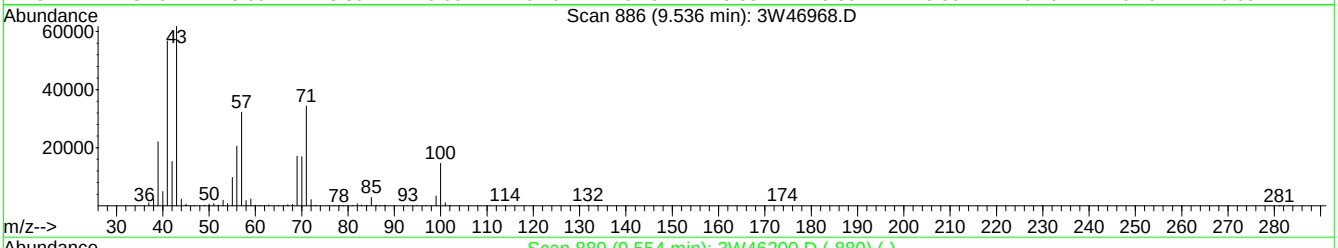
3W46968.D M3W1782.M Wed Apr 15 11:01:54 2015 MS3W

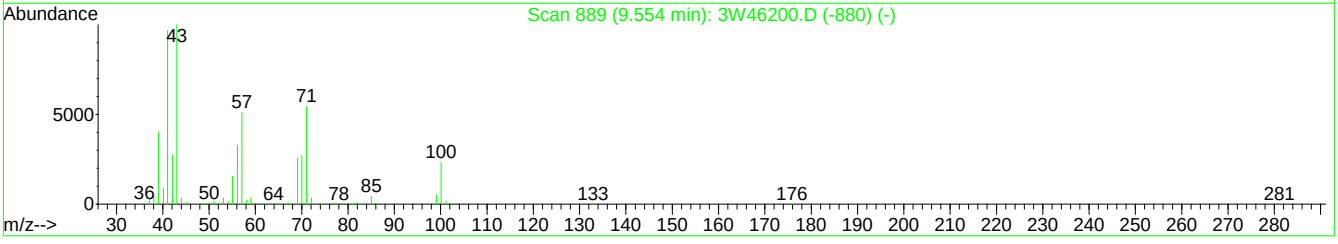
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W46968.D Vial: 1
Acq On : 14 Apr 2015 5:56 pm Operator: YOUMINH
Sample : IC1782-5 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 9:50 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 10:07:57 2015
Response via : Multiple Level Calibration







TIC: 3W46968.D

(64) TVHC as EQUIV HEPTANE (H)

9.54min 5.49PPBV m

response 961700

Signal	Exp%	Act%
TIC	100	100
0.00	1.30	1.01#
0.00	1.20	0.87#
0.00	0.00	0.00

3W46968.D M3W1782.M Wed Apr 15 11:08:20 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46969.D Vial: 2
Acq On : 14 Apr 2015 6:36 pm Operator: YOUMINH
Sample : IC1782-0.5 Inst : MS3W
Misc : MS83225,V3W1782,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 09:48:52 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 09:47:29 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.16	128	111320	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	8.74	114	480441	10.00	PPBV	0.00
71) CHLOROBENZENE-D5	12.88	82	211753	10.00	PPBV	0.00

System Monitoring Compounds

86) 4-BROMOFLUOROBENZENE	14.51	95	229906	9.03	PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 90.30%

Target Compounds						Qvalue
4) FREON 152A	4.23	65	4934	0.50	PPBV	98
5) CHLORODIFLUOROMETHANE	4.25	67	1841	0.48	PPBV	99
6) DICHLORODIFLUOROMETHANE	4.31	85	19780	0.52	PPBV	98
7) PROPYLENE	4.27	41	6379	0.50	PPBV	97
9) FREON 114	4.45	85	20244	0.51	PPBV	97
10) CHLOROMETHANE	4.41	50	9206	0.52	PPBV	100
11) VINYL CHLORIDE	4.52	62	8434	0.50	PPBV	100
12) 1,3-BUTADIENE	4.58	54	5728	0.46	PPBV	94
13) n-BUTANE	4.60	43	12183	0.50	PPBV #	96
14) BROMOMETHANE	4.74	94	7388	0.50	PPBV	100
15) CHLOROETHANE	4.81	64	4292	0.48	PPBV	97
16) DICHLOROFLUOROMETHANE	4.87	67	16724	0.50	PPBV	98
17) ACETONITRILE	5.06	41	5488	0.51	PPBV #	86
18) FREON 123	5.08	83	18069	0.51	PPBV	97
19) FREON 123A	5.11	117	9771	0.52	PPBV	99
20) TRICHLOROFLUOROMETHANE	5.23	101	18224	0.50	PPBV	99
22) ISOPROPYL ALCOHOL	5.32	45	13895	0.52	PPBV	97
23) ACETONE	5.17	58	3390	0.52	PPBV	98
24) PENTANE	5.40	42	9110	0.54	PPBV	96
25) TVHC as EQUIV PENTANE	5.40	TIC	43022m	0.47	PPBV	
26) IODOMETHANE	5.57	142	18416	0.50	PPBV	99
27) 1,1-DICHLOROETHYLENE	5.61	96	6849	0.49	PPBV	99
28) CARBON DISULFIDE	5.87	76	19785	0.47	PPBV	92
29) ETHANOL	4.92	45	3024	0.50	PPBV	96
30) BROMOETHENE	5.02	106	6863	0.47	PPBV	99
31) ACRYLONITRILE	5.44	52	3482	0.41	PPBV	97
32) METHYLENE CHLORIDE	5.68	84	6370	0.51	PPBV	93
33) 3-CHLOROPROPENE	5.75	76	3249	0.47	PPBV	95
34) FREON 113	5.82	151	10750	0.49	PPBV	98
35) TRANS-1,2-DICHLOROETHYLENE	6.26	96	6458	0.45	PPBV	96
36) TERTIARY BUTYL ALCOHOL	5.66	59	16234	0.48	PPBV	97
37) METHYL TERTIARY BUTYL ETHE	6.45	73	17764	0.46	PPBV	98
38) TETRAHYDROFURAN	7.59	72	2910	0.44	PPBV	96
39) HEXANE	7.09	57	11253	0.48	PPBV	97
40) VINYL ACETATE	6.52	86	949	0.34	PPBV #	55
41) 1,1-DICHLOROETHANE	6.40	63	13624	0.50	PPBV	97
42) METHYL ETHYL KETONE	6.71	72	2829	0.43	PPBV #	82
43) cis-1,2-DICHLOROETHYLENE	7.05	96	6446	0.44	PPBV	94
44) DIISOPROPYL ETHER	7.12	59	2209	0.39	PPBV #	70
45) ETHYL ACETATE	7.20	61	2383	0.46	PPBV #	89
46) METHYL ACRYLATE	7.20	55	8722	0.39	PPBV #	79
47) CHLOROFORM	7.24	83	14118	0.49	PPBV #	80
48) 2,4-DIMETHYLPENTANE	7.78	57	12957	0.46	PPBV	98
49) 1,1,1-TRICHLOROETHANE	8.02	97	13832	0.49	PPBV	98
50) CARBON TETRACHLORIDE	8.54	117	14481	0.48	PPBV	99
51) 1,2-DICHLOROETHANE	7.82	62	7851	0.46	PPBV	99
53) BENZENE	8.42	78	20274	0.49	PPBV	99
54) CYCLOHEXANE	8.59	84	11539	0.49	PPBV	98
55) 2,3-DIMETHYLPENTANE	8.77	71	5374	0.55	PPBV #	30

(#) = qualifier out of range (m) = manual integration
3W46969.D M3W1782.M Thu Apr 16 11:22:45 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46969.D Vial: 2
Acq On : 14 Apr 2015 6:36 pm Operator: YOUMINH
Sample : IC1782-0.5 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 09:48:52 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 09:47:29 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

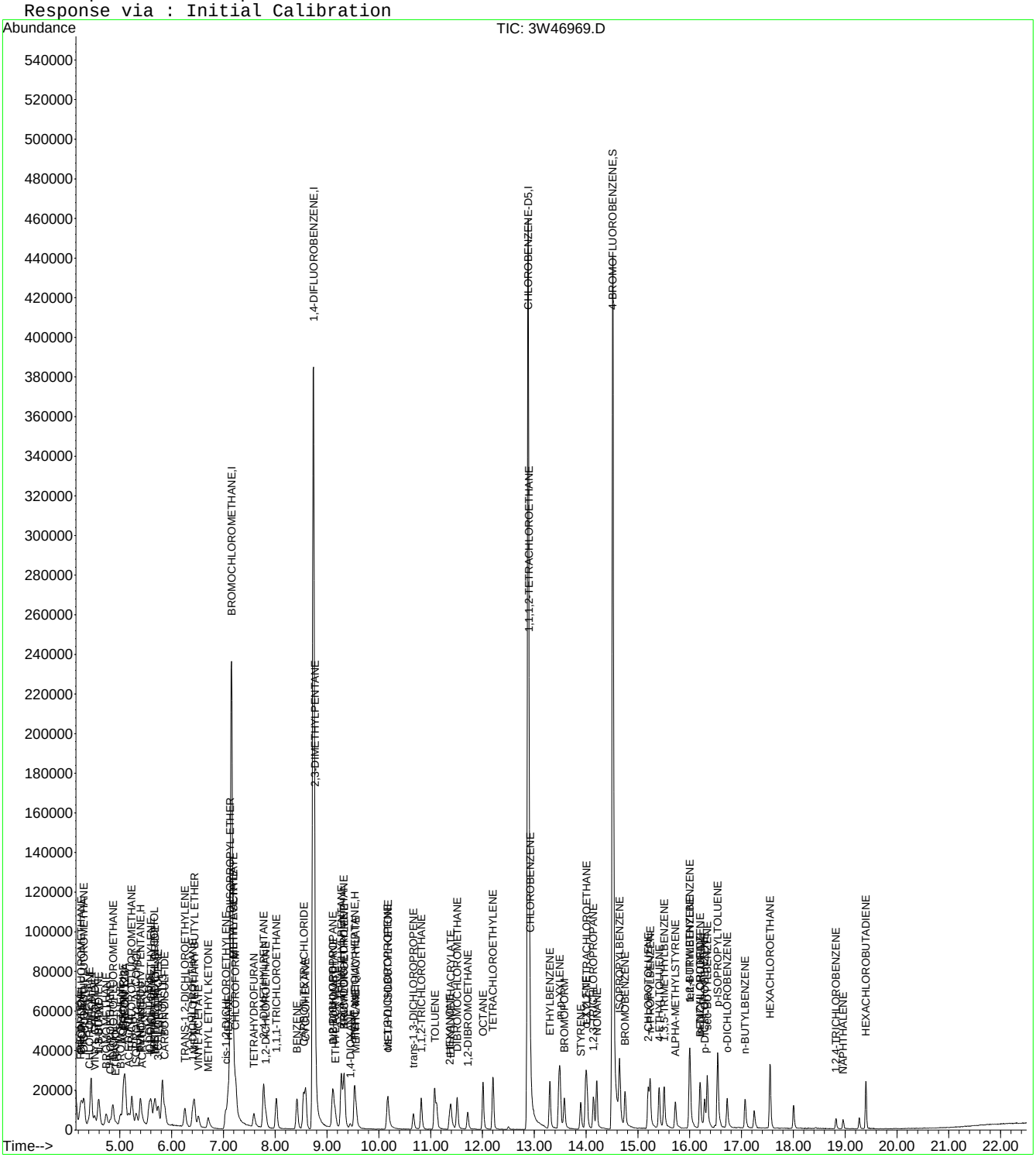
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
56)	TRICHLOROETHYLENE	9.33	95	9289	0.52	PPBV		95
57)	1,2-DICHLOROPROPANE	9.10	63	7498	0.47	PPBV		99
58)	DIBROMOMETHANE	9.13	174	7170	0.46	PPBV		95
59)	ETHYL ACRYLATE	9.16	55	9945	0.35	PPBV		98
60)	BROMODICHLOROMETHANE	9.32	83	13725	0.47	PPBV		99
61)	2,2,4-TRIMETHYLPENTANE	9.27	57	33915	0.50	PPBV		100
62)	1,4-DIOXANE	9.45	88	3035	0.33	PPBV		94
63)	HEPTANE	9.53	43	12253	0.48	PPBV		96
64)	TVHC as EQUIV HEPTANE	9.54	TIC	79016m	0.47	PPBV		
65)	METHYL METHACRYLATE	9.56	69	5519	0.39	PPBV	#	61
66)	METHYL ISOBUTYL KETONE	10.18	58	4901	0.40	PPBV	#	88
67)	cis-1,3-DICHLOROPROPENE	10.16	75	8956	0.41	PPBV		92
68)	TOLUENE	11.07	92	12474	0.46	PPBV		96
69)	trans-1,3-DICHLOROPROPENE	10.67	75	7298	0.40	PPBV		98
70)	1,1,2-TRICHLOROETHANE	10.82	83	6152	0.44	PPBV		98
72)	2-HEXANONE	11.36	58	5364	0.37	PPBV	#	81
73)	ETHYL METHACRYLATE	11.39	69	7752	0.37	PPBV	#	71
74)	TETRACHLOROETHYLENE	12.21	164	8718	0.56	PPBV		99
75)	DIBROMOCHLOROMETHANE	11.51	129	11831	0.48	PPBV		99
76)	1,2-DIBROMOETHANE	11.71	107	9232	0.47	PPBV		99
77)	OCTANE	12.01	43	14076	0.47	PPBV		97
78)	1,1,1,2-TETRACHLOROETHANE	12.91	131	8829	0.49	PPBV		100
79)	CHLOROBENZENE	12.92	112	14680	0.50	PPBV	#	79
80)	ETHYLBENZENE	13.30	91	23855	0.46	PPBV		99
81)	m,p-XYLENE	13.48	106	18595	0.95	PPBV		97
82)	o-XYLENE	13.99	106	9074	0.47	PPBV		96
83)	STYRENE	13.90	104	10073	0.36	PPBV		98
84)	NONANE	14.20	43	12619	0.44	PPBV		96
85)	BROMOFORM	13.58	173	10286	0.43	PPBV		99
87)	1,1,2,2-TETRACHLOROETHANE	14.01	83	13925	0.46	PPBV		98
88)	1,2,3-TRICHLOROPROPANE	14.14	75	10349	0.47	PPBV		96
89)	ISOPROPYLBENZENE	14.65	105	26628	0.47	PPBV		98
90)	BROMOBENZENE	14.76	77	11220	0.44	PPBV		99
91)	2-CHLOROTOLUENE	15.20	126	5831	0.43	PPBV		98
92)	n-PROPYLBENZENE	15.24	120	5936	0.41	PPBV		100
93)	4-ETHYLTOLUENE	15.41	105	19594	0.38	PPBV		99
94)	1,3,5-TRIMETHYLBENZENE	15.50	105	18785	0.42	PPBV		99
95)	ALPHA-METHYLSTYRENE	15.72	118	6331	0.30	PPBV		98
96)	tert-BUTYLBENZENE	16.00	134	4375	0.43	PPBV		95
97)	1,2,4-TRIMETHYLBENZENE	16.01	105	17132	0.40	PPBV		90
98)	m-DICHLOROBENZENE	16.20	146	9439	0.37	PPBV		100
99)	BENZYL CHLORIDE	16.20	91	10512	0.32	PPBV		97
100)	p-DICHLOROBENZENE	16.29	146	9732	0.39	PPBV		99
101)	sec-BUTYLBENZENE	16.34	134	4946	0.41	PPBV		99
102)	p-ISOPROPYLTOLUENE	16.54	134	4738	0.37	PPBV	#	91
103)	o-DICHLOROBENZENE	16.72	146	9876	0.40	PPBV		98
104)	n-BUTYLBENZENE	17.07	134	3225	0.30	PPBV		93
105)	HEXACHLOROETHANE	17.55	117	8883	0.46	PPBV		97
106)	HEXACHLOROBUTADIENE	19.40	225	5678	0.38	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.83	180	2327	0.27	PPBV		94
108)	NAPHTHALENE	18.96	128	4708	0.29	PPBV		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W46969.D M3W1782.M Thu Apr 16 11:22:45 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46969.D Vial: 2
Acq On : 14 Apr 2015 6:36 pm Operator: YOUMINH
Sample : IC1782-0.5 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 9:51 2015 Quant Results File: M3W1782.RES

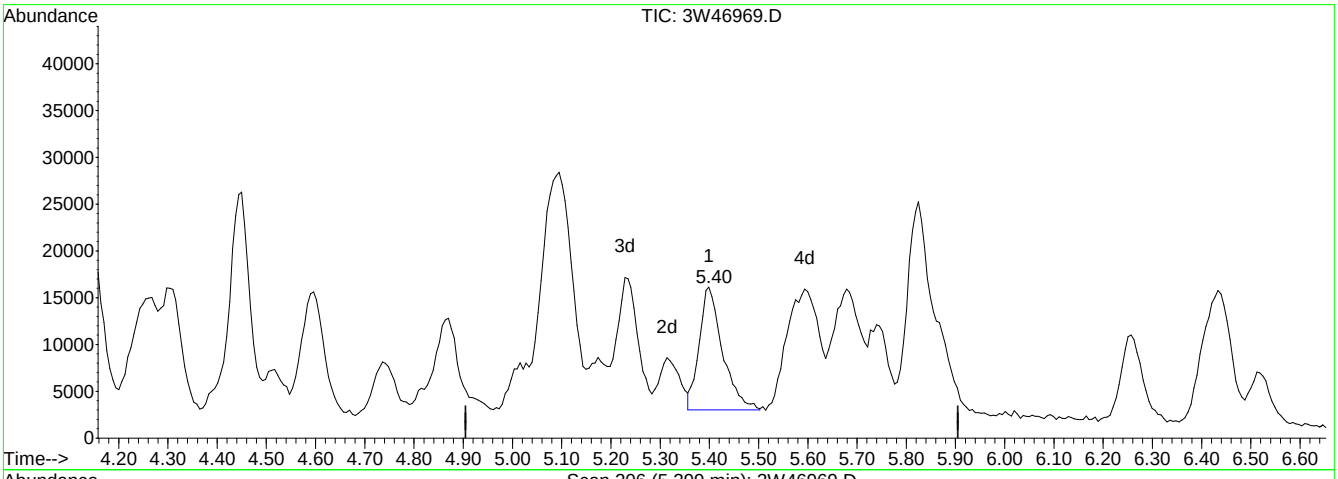
Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Initial Calibration

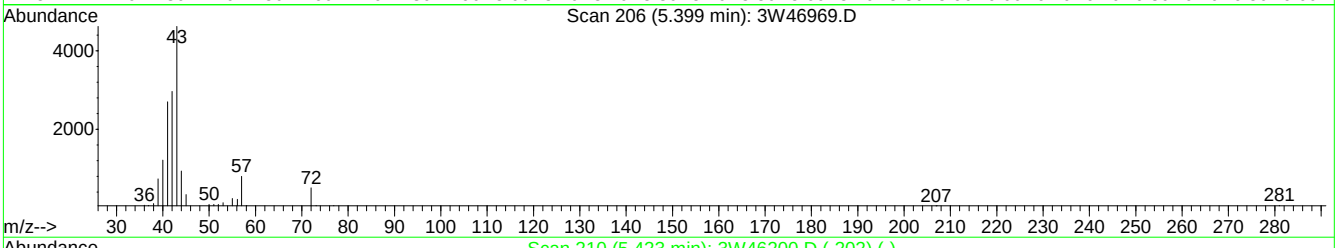


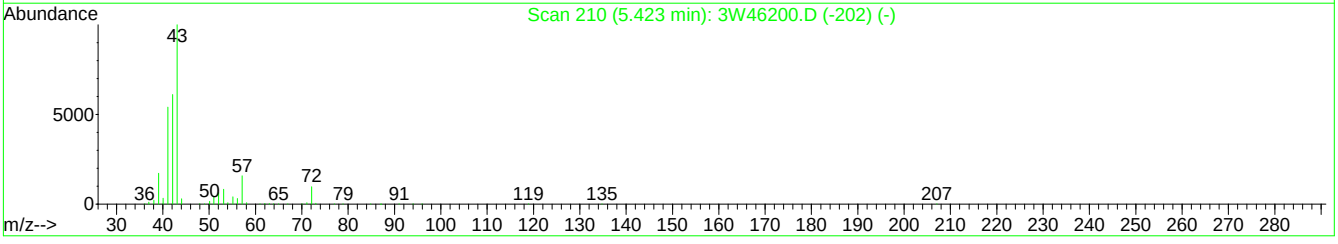
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W46969.D Vial: 2
Acq On : 14 Apr 2015 6:36 pm Operator: YOUMINH
Sample : IC1782-0.5 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 9:51 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 10:07:57 2015
Response via : Multiple Level Calibration







TIC: 3W46969.D

(25) TVHC as EQUIV PENTANE (H)

5.40min 0.47PPBV m

response 43022

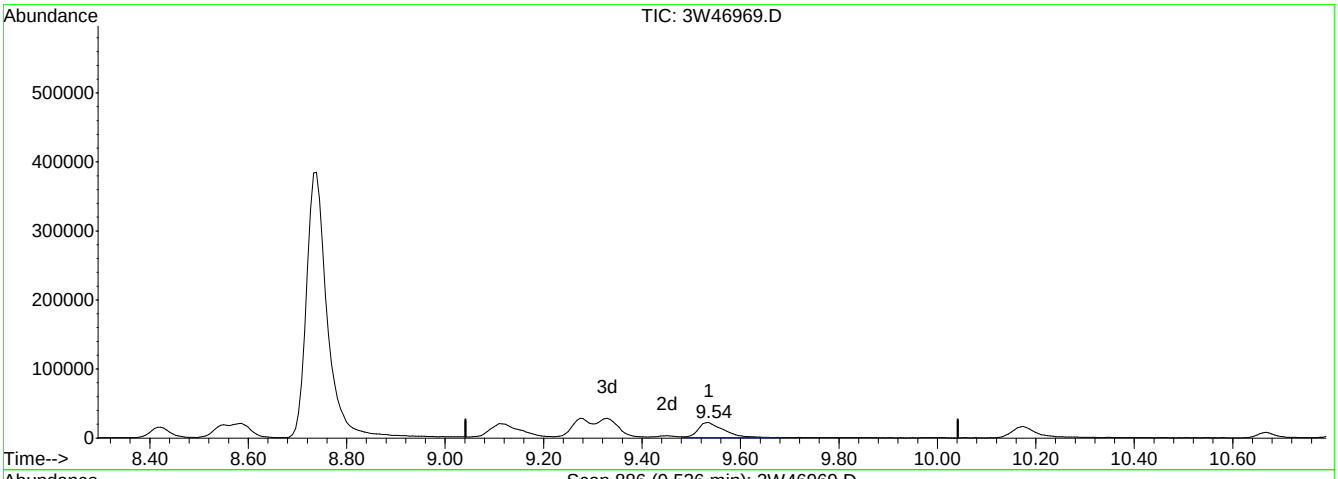
Signal	Exp%	Act%
TIC	100	100
0.00	2.50	1.36#
0.00	2.20	1.13#
0.00	0.00	0.00

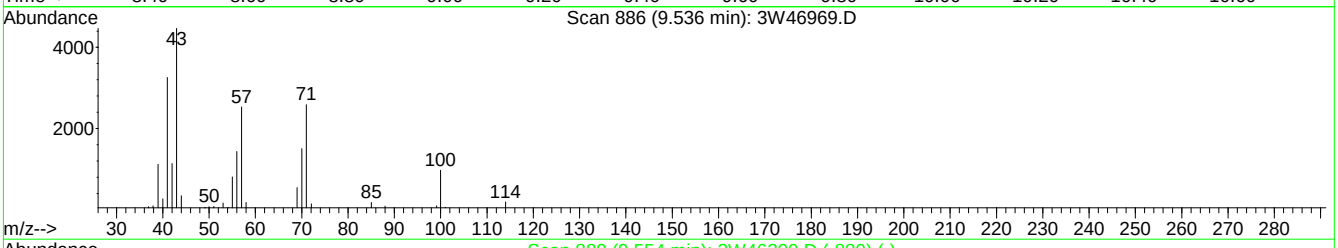
3W46969.D M3W1782.M Wed Apr 15 11:02:00 2015 MS3W

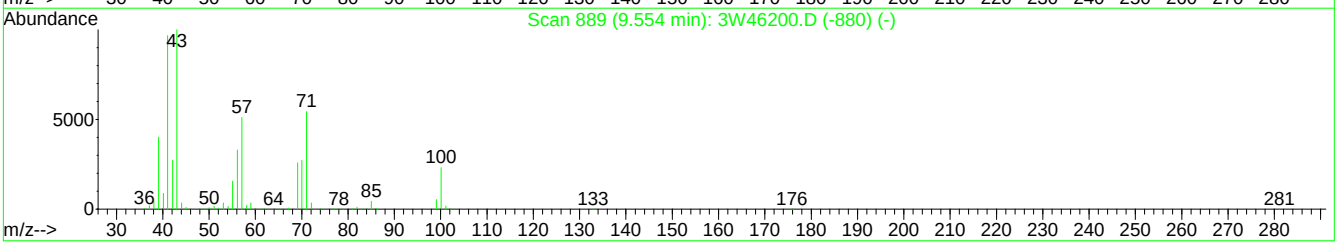
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W46969.D Vial: 2
Acq On : 14 Apr 2015 6:36 pm Operator: YOUMINH
Sample : IC1782-0.5 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 9:51 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 10:07:57 2015
Response via : Multiple Level Calibration







TIC: 3W46969.D

(64) TVHC as EQUIV HEPTANE (H)

9.54min 0.47PPBV m

response 79016

Signal	Exp%	Act%
TIC	100	100
0.00	1.30	0.74#
0.00	1.20	0.61#
0.00	0.00	0.00

3W46969.D M3W1782.M Wed Apr 15 11:08:26 2015 MS3W

Manual Integrations APPROVED (compounds with "m" flag)
Jessica Reitan-Chu
04/16/15 12:30

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46970.D Vial: 2
Acq On : 14 Apr 2015 7:16 pm Operator: YOUMINH
Sample : IC1782-0.2 Inst : MS3W
Misc : MS83225,V3W1782,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 09:48:55 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 09:47:29 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.16	128	111674	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	8.74	114	476405	10.00	PPBV	0.00
71) CHLOROBENZENE-D5	12.88	82	208985	10.00	PPBV	0.00

System Monitoring Compounds

86) 4-BROMOFLUOROBENZENE	14.52	95	217980	8.67	PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 86.70%

Target Compounds						Qvalue
4) FREON 152A	4.24	65	2115	0.21	PPBV	91
5) CHLORODIFLUOROMETHANE	4.26	67	861	0.22	PPBV	99
6) DICHLORODIFLUOROMETHANE	4.32	85	8471	0.22	PPBV	96
7) PROPYLENE	4.28	41	3004	0.24	PPBV	97
9) FREON 114	4.45	85	8337	0.21	PPBV	99
10) CHLOROMETHANE	4.41	50	4131	0.23	PPBV	90
11) VINYL CHLORIDE	4.52	62	3524	0.21	PPBV	98
12) 1,3-BUTADIENE	4.59	54	2356	0.19	PPBV #	83
13) n-BUTANE	4.61	43	5665	0.23	PPBV	92
14) BROMOMETHANE	4.74	94	3165	0.21	PPBV	96
15) CHLOROETHANE	4.83	64	1884	0.21	PPBV	91
16) DICHLOROFLUOROMETHANE	4.87	67	7232	0.21	PPBV	98
17) ACETONITRILE	5.08	41	2075	0.19	PPBV #	64
18) FREON 123	5.08	83	7673	0.22	PPBV	99
19) FREON 123A	5.11	117	4150	0.22	PPBV	96
20) TRICHLOROFLUOROMETHANE	5.24	101	7535	0.21	PPBV	97
22) ISOPROPYL ALCOHOL	5.33	45	6050	0.23	PPBV	79
23) ACETONE	5.19	58	1598	0.24	PPBV	90
24) PENTANE	5.40	42	4157	0.24	PPBV	95
25) TVHC as EQUIV PENTANE	5.40	TIC	20840m	0.23	PPBV	
26) IODOMETHANE	5.58	142	7648	0.21	PPBV	99
27) 1,1-DICHLOROETHYLENE	5.62	96	2982	0.21	PPBV	96
28) CARBON DISULFIDE	5.87	76	9109	0.22	PPBV #	71
29) ETHANOL	4.93	45	1388	0.23	PPBV #	92
30) BROMOETHENE	5.02	106	2821	0.19	PPBV	97
31) ACRYLONITRILE	5.47	52	1241	0.15	PPBV #	2
32) METHYLENE CHLORIDE	5.70	84	2576	0.21	PPBV	92
33) 3-CHLOROPROPENE	5.75	76	1405	0.20	PPBV #	90
34) FREON 113	5.83	151	4474	0.20	PPBV	98
35) TRANS-1,2-DICHLOROETHYLENE	6.26	96	2703	0.19	PPBV	93
36) TERTIARY BUTYL ALCOHOL	5.68	59	6903	0.20	PPBV	93
37) METHYL TERTIARY BUTYL ETHE	6.45	73	7274	0.19	PPBV	94
38) TETRAHYDROFURAN	7.60	72	1133	0.17	PPBV #	87
39) HEXANE	7.09	57	4604	0.20	PPBV	90
40) VINYL ACETATE	6.53	86	377	0.13	PPBV #	16
41) 1,1-DICHLOROETHANE	6.41	63	5974	0.22	PPBV	97
42) METHYL ETHYL KETONE	6.72	72	1047	0.16	PPBV	98
43) cis-1,2-DICHLOROETHYLENE	7.05	96	2825	0.19	PPBV	95
44) DIISOPROPYL ETHER	7.13	59	1130	0.20	PPBV #	92
45) ETHYL ACETATE	7.20	61	891	0.17	PPBV #	54
46) METHYL ACRYLATE	7.21	55	3434	0.15	PPBV #	78
47) CHLOROFORM	7.24	83	6317	0.22	PPBV #	81
48) 2,4-DIMETHYLPENTANE	7.78	57	5574	0.20	PPBV	96
49) 1,1,1-TRICHLOROETHANE	8.03	97	5819	0.21	PPBV	96
50) CARBON TETRACHLORIDE	8.54	117	6240	0.21	PPBV	100
51) 1,2-DICHLOROETHANE	7.82	62	3453	0.20	PPBV	96
53) BENZENE	8.43	78	8580	0.21	PPBV	99
54) CYCLOHEXANE	8.59	84	4896	0.21	PPBV	100
55) 2,3-DIMETHYLPENTANE	8.77	71	2718	0.28	PPBV #	1

(#) = qualifier out of range (m) = manual integration
3W46970.D M3W1782.M Thu Apr 16 11:22:47 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46970.D Vial: 2
Acq On : 14 Apr 2015 7:16 pm Operator: YOUMINH
Sample : IC1782-0.2 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 09:48:55 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 09:47:29 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

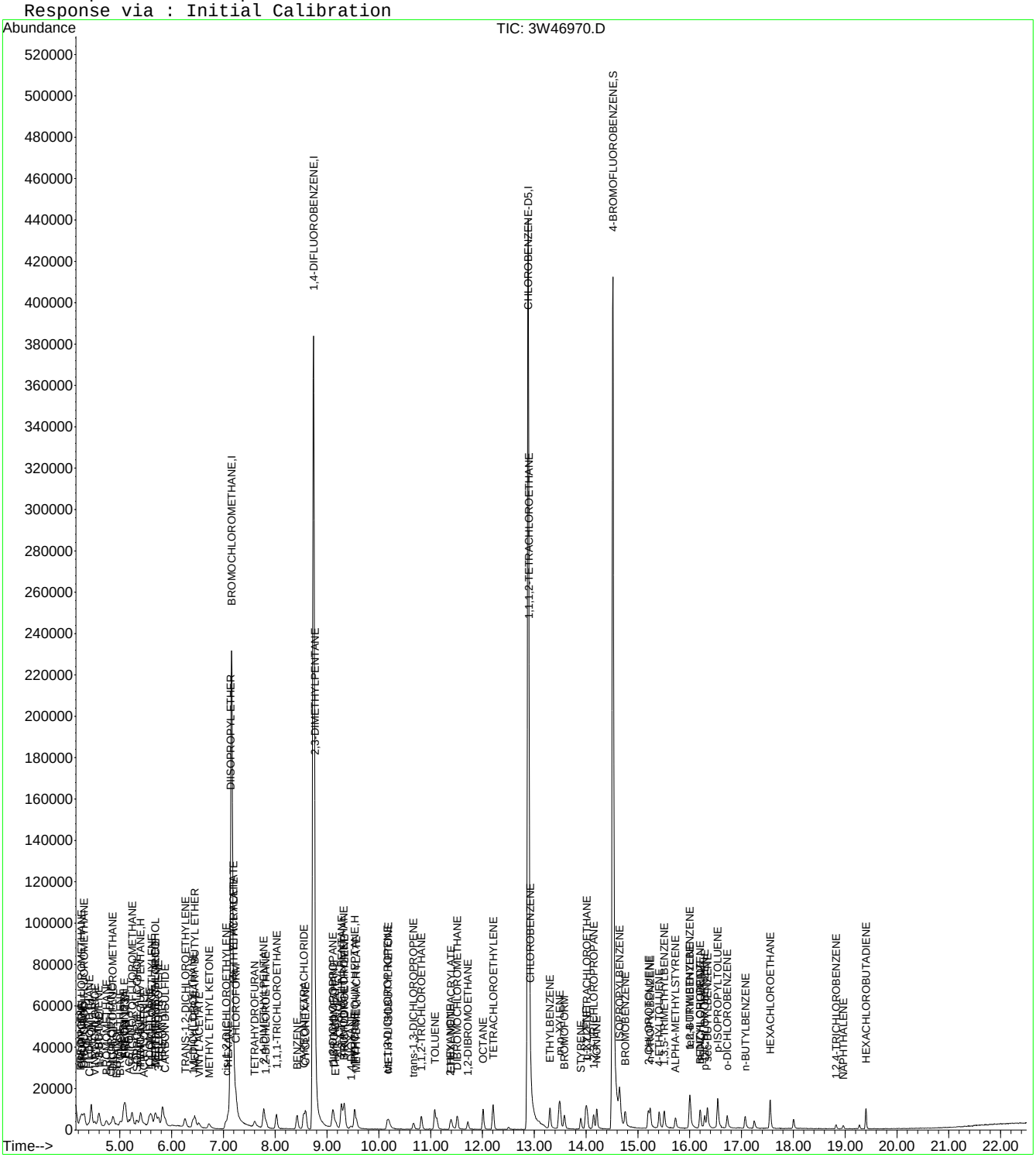
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
56)	TRICHLOROETHYLENE	9.34	95	3963	0.23 PPBV	98
57)	1,2-DICHLOROPROPANE	9.10	63	4206	0.27 PPBV	84
58)	DIBROMOMETHANE	9.13	174	2916	0.19 PPBV	90
59)	ETHYL ACRYLATE	9.17	55	3937	0.14 PPBV #	94
60)	BROMODICHLOROMETHANE	9.32	83	5942	0.21 PPBV	98
61)	2,2,4-TRIMETHYLPENTANE	9.27	57	14767	0.22 PPBV	99
62)	1,4-DIOXANE	9.46	88	1885	0.21 PPBV	89
63)	HEPTANE	9.53	43	5642	0.22 PPBV	93
64)	TVHC as EQUIV HEPTANE	9.54	TIC	33426m	0.20 PPBV	
65)	METHYL METHACRYLATE	9.57	69	2301	0.17 PPBV #	1
66)	METHYL ISOBUTYL KETONE	10.19	58	1801	0.15 PPBV #	80
67)	cis-1,3-DICHLOROPROPENE	10.16	75	3699	0.17 PPBV	89
68)	TOLUENE	11.08	92	5528	0.20 PPBV	94
69)	trans-1,3-DICHLOROPROPENE	10.67	75	2794	0.15 PPBV	96
70)	1,1,2-TRICHLOROETHANE	10.82	83	2637	0.19 PPBV	97
72)	2-HEXANONE	11.37	58	1834	0.13 PPBV #	75
73)	ETHYL METHACRYLATE	11.40	69	3037	0.15 PPBV #	71
74)	TETRACHLOROETHYLENE	12.20	164	3894	0.25 PPBV	97
75)	DIBROMOCHLOROMETHANE	11.51	129	5085	0.21 PPBV	98
76)	1,2-DIBROMOETHANE	11.72	107	3816	0.20 PPBV #	96
77)	OCTANE	12.01	43	5925	0.20 PPBV	94
78)	1,1,1,2-TETRACHLOROETHANE	12.91	131	3730	0.21 PPBV	97
79)	CHLOROBENZENE	12.93	112	6233	0.21 PPBV #	45
80)	ETHYLBENZENE	13.30	91	10508	0.21 PPBV	98
81)	m,p-XYLENE	13.49	106	7712	0.40 PPBV	96
82)	o-XYLENE	13.99	106	3693	0.20 PPBV	97
83)	STYRENE	13.90	104	4367	0.16 PPBV	93
84)	NONANE	14.20	43	4913	0.17 PPBV	96
85)	BROMOFORM	13.58	173	4244	0.18 PPBV	97
87)	1,1,2,2-TETRACHLOROETHANE	14.02	83	5818	0.20 PPBV	99
88)	1,2,3-TRICHLOROPROPANE	14.15	75	4302	0.20 PPBV	95
89)	ISOPROPYLBENZENE	14.65	105	11150	0.20 PPBV	97
90)	BROMOBENZENE	14.76	77	4932	0.20 PPBV	95
91)	2-CHLOROTOLUENE	15.21	126	2425	0.18 PPBV	98
92)	n-PROPYLBENZENE	15.24	120	2272	0.16 PPBV	99
93)	4-ETHYLTOLUENE	15.41	105	7639m	0.15 PPBV	
94)	1,3,5-TRIMETHYLBENZENE	15.50	105	7976	0.18 PPBV	96
95)	ALPHA-METHYLSTYRENE	15.72	118	2439	0.12 PPBV	97
96)	tert-BUTYLBENZENE	16.00	134	1721	0.17 PPBV #	91
97)	1,2,4-TRIMETHYLBENZENE	16.01	105	6709	0.16 PPBV	89
98)	m-DICHLOROBENZENE	16.20	146	3839	0.15 PPBV	99
99)	BENZYL CHLORIDE	16.20	91	4402	0.14 PPBV	93
100)	p-DICHLOROBENZENE	16.29	146	4038	0.16 PPBV	98
101)	sec-BUTYLBENZENE	16.34	134	1837	0.15 PPBV #	80
102)	p-ISOPROPYLTOLUENE	16.54	134	1691	0.13 PPBV #	79
103)	o-DICHLOROBENZENE	16.72	146	3941	0.16 PPBV	97
104)	n-BUTYLBENZENE	17.07	134	1112	0.11 PPBV #	72
105)	HEXACHLOROETHANE	17.55	117	4242	0.22 PPBV	85
106)	HEXACHLOROBUTADIENE	19.40	225	2289	0.16 PPBV	98
107)	1,2,4-TRICHLOROBENZENE	18.82	180	977	0.11 PPBV	92
108)	NAPHTHALENE	18.96	128	1694	0.11 PPBV #	70

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W46970.D M3W1782.M Thu Apr 16 11:22:47 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46970.D Vial: 2
Acq On : 14 Apr 2015 7:16 pm Operator: YOUMINH
Sample : IC1782-0.2 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 11:30 2015 Quant Results File: M3W1782.RES

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Initial Calibration



Manual Integration Approval Summary

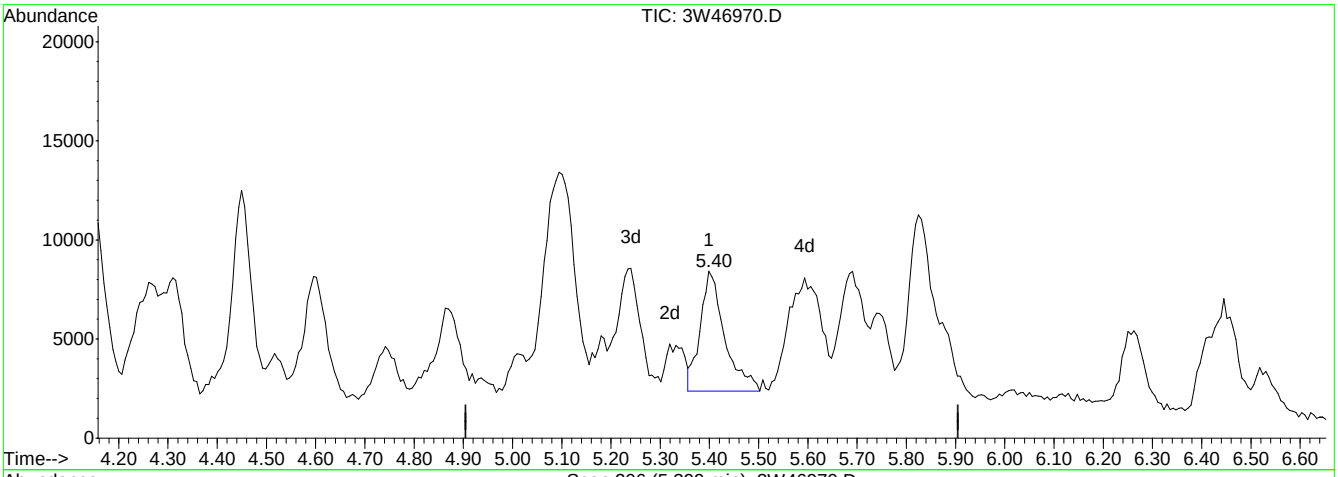
Sample Number:	V3W1782-IC1782	**Method:**	TO-15
Lab FileID:	3W46970.D	**Analyst approved:**	04/15/15 11:54 Youmin Hu
Injection Time:	04/14/15 19:16	**Supervisor approved:**	04/16/15 12:30 Jessica Reitan-Chu

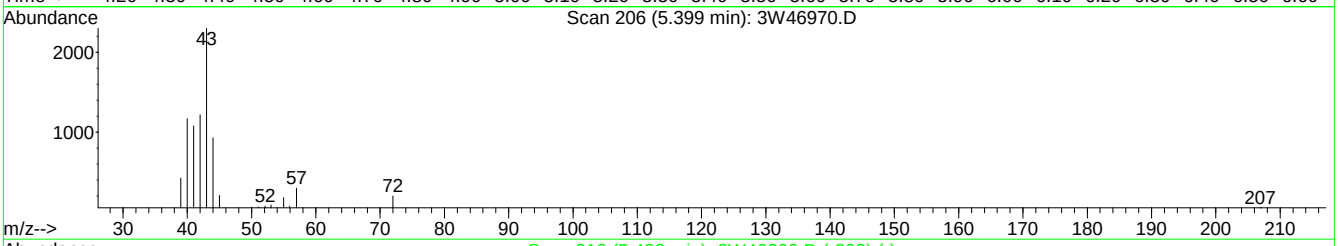
Parameter	CAS	Sig#	R.T. (min.)	Reason
4-Ethyltoluene	622-96-8		15.41	Overlapping peak

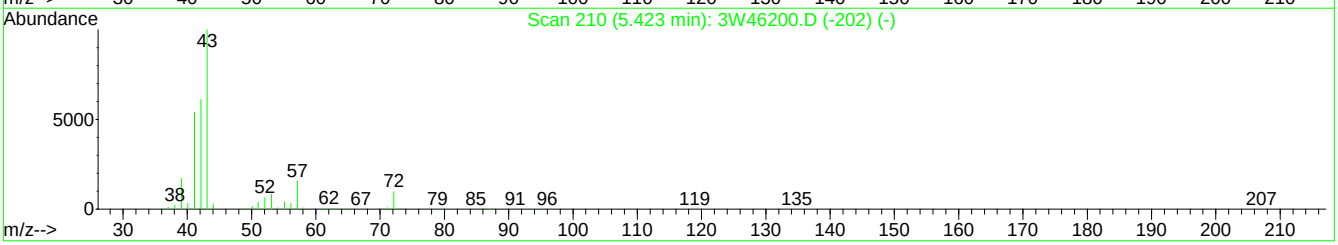
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W46970.D Vial: 2
Acq On : 14 Apr 2015 7:16 pm Operator: YOUMINH
Sample : IC1782-0.2 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 9:52 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 10:07:57 2015
Response via : Multiple Level Calibration







TIC: 3W46970.D

(25) TVHC as EQUIV PENTANE (H)

5.40min 0.23PPBV m

response 20840

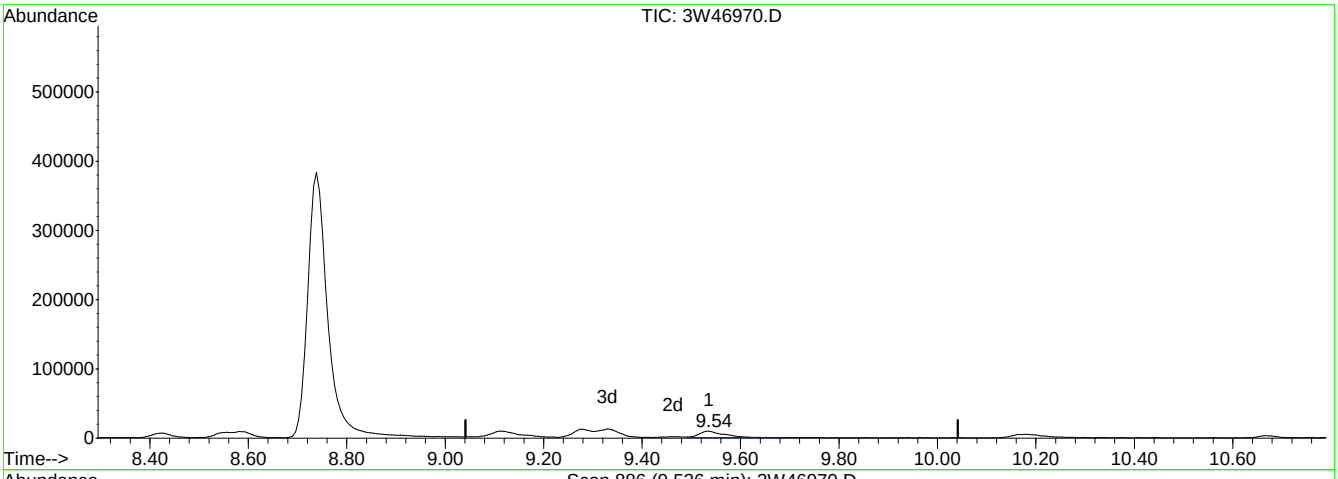
Signal	Exp%	Act%
TIC	100	100
0.00	2.50	0.00
0.00	2.20	0.00
0.00	0.00	0.00

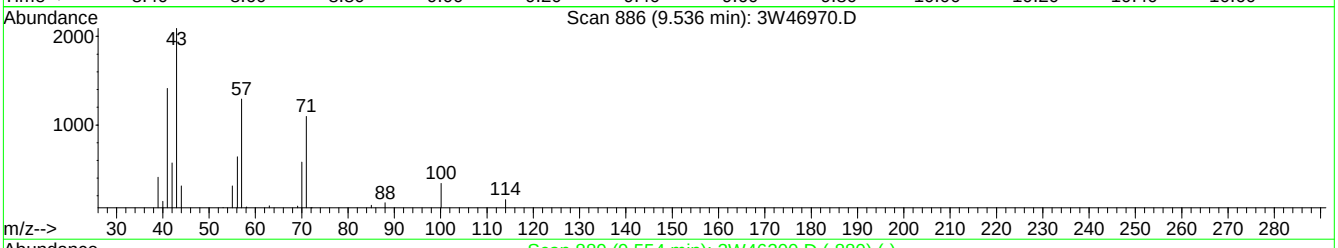
3W46970.D M3W1782.M Wed Apr 15 11:02:05 2015 MS3W

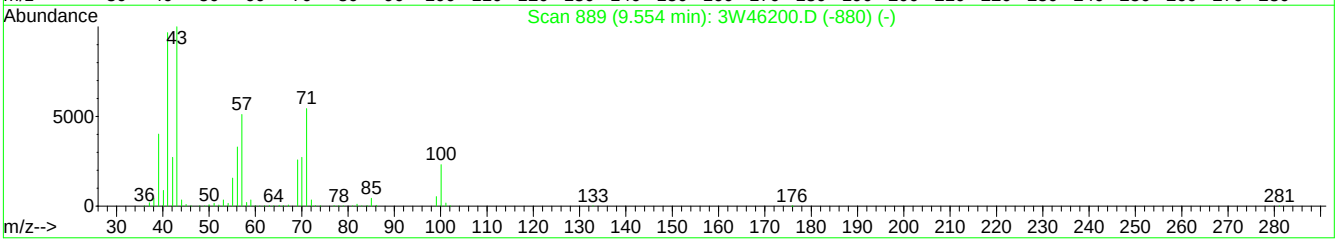
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W46970.D Vial: 2
Acq On : 14 Apr 2015 7:16 pm Operator: YOUMINH
Sample : IC1782-0.2 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 9:52 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 10:07:57 2015
Response via : Multiple Level Calibration







TIC: 3W46970.D

(64) TVHC as EQUIV HEPTANE (H)

9.54min 0.20PPBV m

response 33426

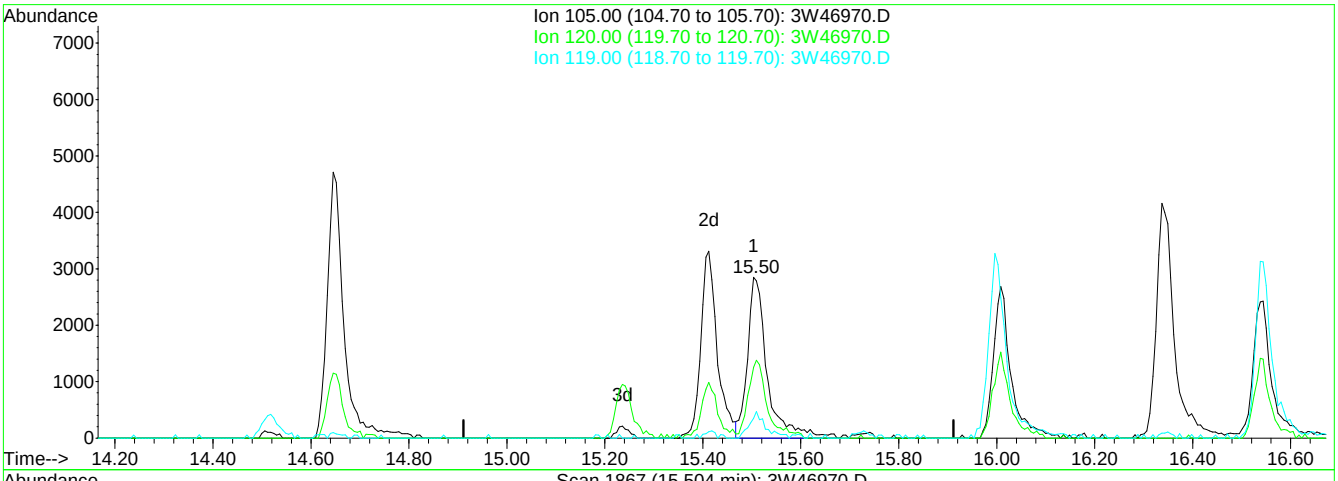
Signal	Exp%	Act%
TIC	100	100
0.00	1.30	0.00
0.00	1.20	0.00
0.00	0.00	0.00

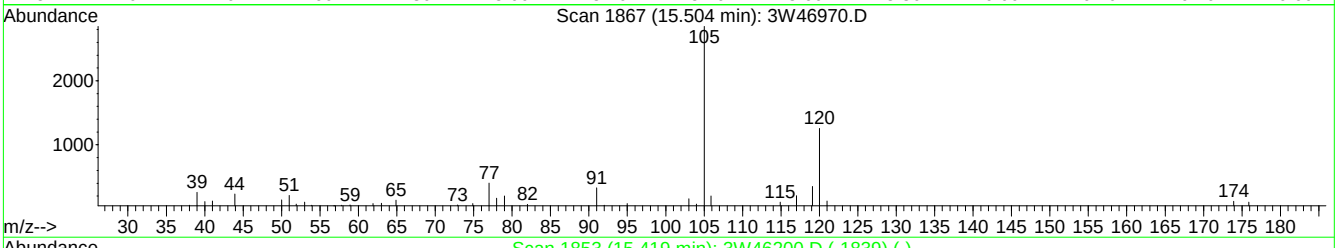
3W46970.D M3W1782.M Wed Apr 15 11:08:31 2015 MS3W

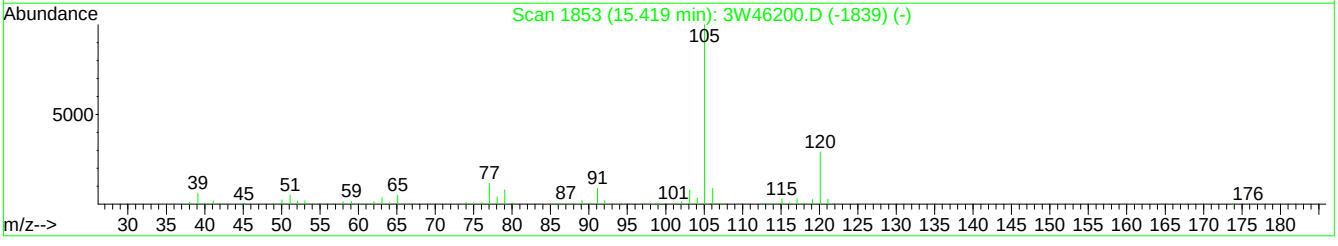
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W46970.D Vial: 2
Acq On : 14 Apr 2015 7:16 pm Operator: YOUMINH
Sample : IC1782-0.2 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 9:52 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 10:07:57 2015
Response via : Multiple Level Calibration







TIC: 3W46970.D

(93) 4-ETHYLTOLUENE

15.50min 0.16PPBV

response 7976

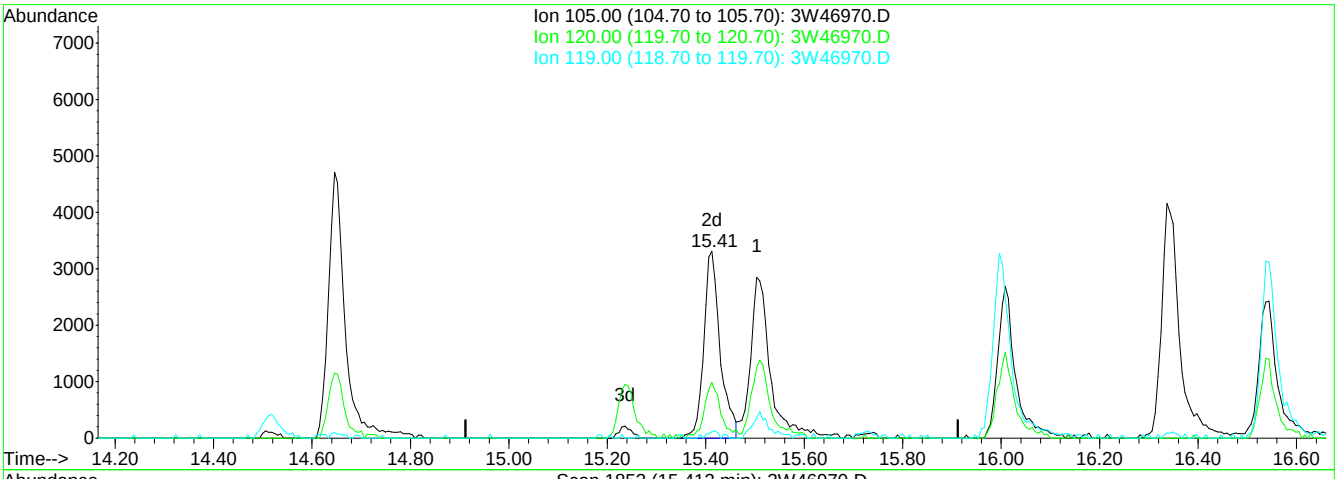
Ion	Exp%	Act%
105.00	100	100
120.00	29.50	46.88
119.00	2.40	13.43
0.00	0.00	0.00

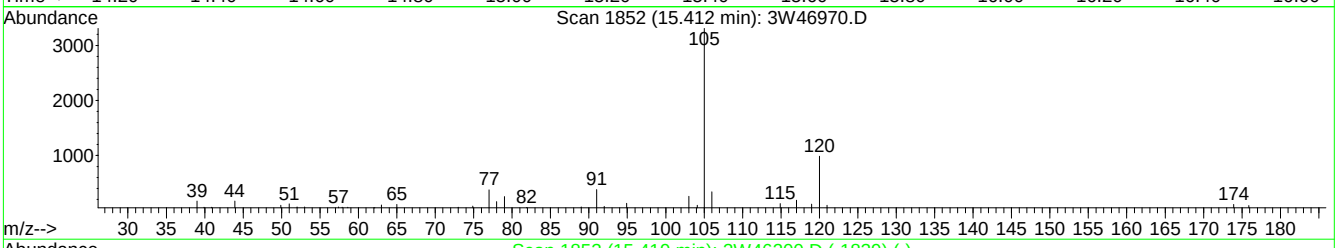
3W46970.D M3W1782.M Wed Apr 15 11:30:37 2015 MS3W

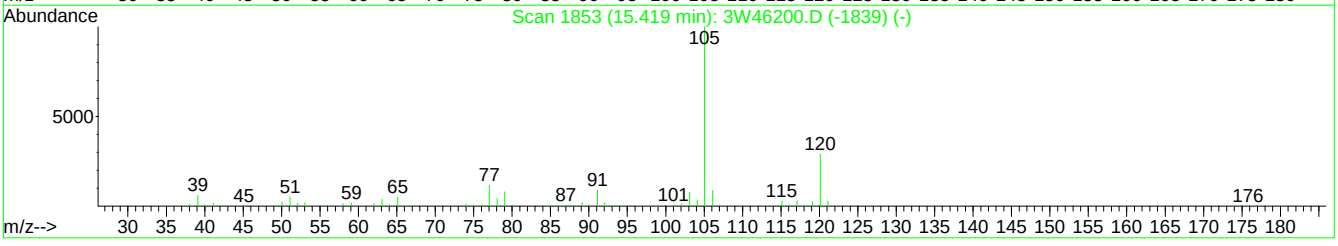
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W46970.D Vial: 2
Acq On : 14 Apr 2015 7:16 pm Operator: YOUMINH
Sample : IC1782-0.2 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 11:30 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Multiple Level Calibration







TIC: 3W46970.D

(93) 4-ETHYLTOLUENE

15.41min 0.15PPBV m

response 7639

Ion	Exp%	Act%
105.00	100	100
120.00	29.50	48.95
119.00	2.40	14.02
0.00	0.00	0.00

3W46970.D M3W1782.M Wed Apr 15 11:33:48 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46971.D Vial: 1
Acq On : 14 Apr 2015 7:56 pm Operator: YOUMINH
Sample : IC1782-20 Inst : MS3W
Misc : MS83225,V3W1782,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 09:48:57 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 09:47:29 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.17	128	113563	10.00 PPBV	0.00
52) 1,4-DIFLUOROBENZENE	8.75	114	512027	10.00 PPBV	0.00
71) CHLOROBENZENE-D5	12.89	82	271052	10.00 PPBV	0.00

System Monitoring Compounds

86) 4-BROMOFLUOROBENZENE	14.52	95	315445	9.68 PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 96.80%

Target Compounds					Qvalue
4) FREON 152A	4.23	65	192299	19.10 PPBV	100
5) CHLORODIFLUOROMETHANE	4.26	67	74071	18.91 PPBV	99
6) DICHLORODIFLUOROMETHANE	4.31	85	732252	18.75 PPBV	100
7) PROPYLENE	4.27	41	245632	19.00 PPBV	98
9) FREON 114	4.44	85	754544	18.76 PPBV	100
10) CHLOROMETHANE	4.40	50	335960	18.77 PPBV	98
11) VINYL CHLORIDE	4.52	62	327698	18.89 PPBV	100
12) 1,3-BUTADIENE	4.58	54	243857	19.16 PPBV	100
13) n-BUTANE	4.60	43	470178	19.03 PPBV	100
14) BROMOMETHANE	4.74	94	285254	18.84 PPBV	100
15) CHLOROETHANE	4.82	64	171291	18.88 PPBV	99
16) DICHLOROFLUOROMETHANE	4.87	67	646990	18.80 PPBV	100
17) ACETONITRILE	5.04	41	227319	20.76 PPBV	99
18) FREON 123	5.08	83	688418	19.20 PPBV	100
19) FREON 123A	5.11	117	371709	19.37 PPBV	100
20) TRICHLOROFLUOROMETHANE	5.23	101	698280	18.95 PPBV	100
22) ISOPROPYL ALCOHOL	5.30	45	477144	17.47 PPBV	99
23) ACETONE	5.15	58	136876	20.51 PPBV	100
24) PENTANE	5.40	42	334141	19.30 PPBV	99
25) TVHC as EQUIV PENTANE	5.40	TIC	1846190m	19.73 PPBV	
26) IODOMETHANE	5.57	142	712644	18.87 PPBV	99
27) 1,1-DICHLOROETHYLENE	5.61	96	266114	18.53 PPBV	96
28) CARBON DISULFIDE	5.87	76	821246	19.08 PPBV	97
29) ETHANOL	4.91	45	104802	16.94 PPBV	99
30) BROMOETHENE	5.02	106	281791	19.02 PPBV	99
31) ACRYLONITRILE	5.44	52	178975	20.57 PPBV	99
32) METHYLENE CHLORIDE	5.69	84	243425	19.18 PPBV	100
33) 3-CHLOROPROPENE	5.75	76	135338	19.38 PPBV	99
34) FREON 113	5.82	151	422491	19.01 PPBV	99
35) TRANS-1,2-DICHLOROETHYLENE	6.26	96	275029	18.79 PPBV	96
36) TERTIARY BUTYL ALCOHOL	5.64	59	619550	17.81 PPBV	100
37) METHYL TERTIARY BUTYL ETHE	6.42	73	783321	20.09 PPBV	100
38) TETRAHYDROFURAN	7.55	72	137878	20.54 PPBV	100
39) HEXANE	7.10	57	461211	19.36 PPBV	99
40) VINYL ACETATE	6.52	86	60308	20.87 PPBV	99
41) 1,1-DICHLOROETHANE	6.41	63	535539	19.42 PPBV	99
42) METHYL ETHYL KETONE	6.68	72	138204	20.78 PPBV	97
43) cis-1,2-DICHLOROETHYLENE	7.05	96	288760	19.39 PPBV	98
44) DIISOPROPYL ETHER	7.11	59	118089	20.44 PPBV #	95
45) ETHYL ACETATE	7.18	61	107911	20.32 PPBV	98
46) METHYL ACRYLATE	7.19	55	483171	21.03 PPBV	99
47) CHLOROFORM	7.25	83	578274	19.56 PPBV	100
48) 2,4-DIMETHYLPENTANE	7.78	57	551719	19.37 PPBV	99
49) 1,1,1-TRICHLOROETHANE	8.03	97	555337	19.37 PPBV	100
50) CARBON TETRACHLORIDE	8.56	117	587810	19.21 PPBV	99
51) 1,2-DICHLOROETHANE	7.83	62	350971	20.25 PPBV	100
53) BENZENE	8.43	78	869046	19.61 PPBV	100
54) CYCLOHEXANE	8.59	84	473524	18.87 PPBV	99
55) 2,3-DIMETHYLPENTANE	8.78	71	201384	19.44 PPBV	96

(#) = qualifier out of range (m) = manual integration
3W46971.D M3W1782.M Thu Apr 16 11:22:49 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46971.D Vial: 1
Acq On : 14 Apr 2015 7:56 pm Operator: YOUMINH
Sample : IC1782-20 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 09:48:57 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 09:47:29 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

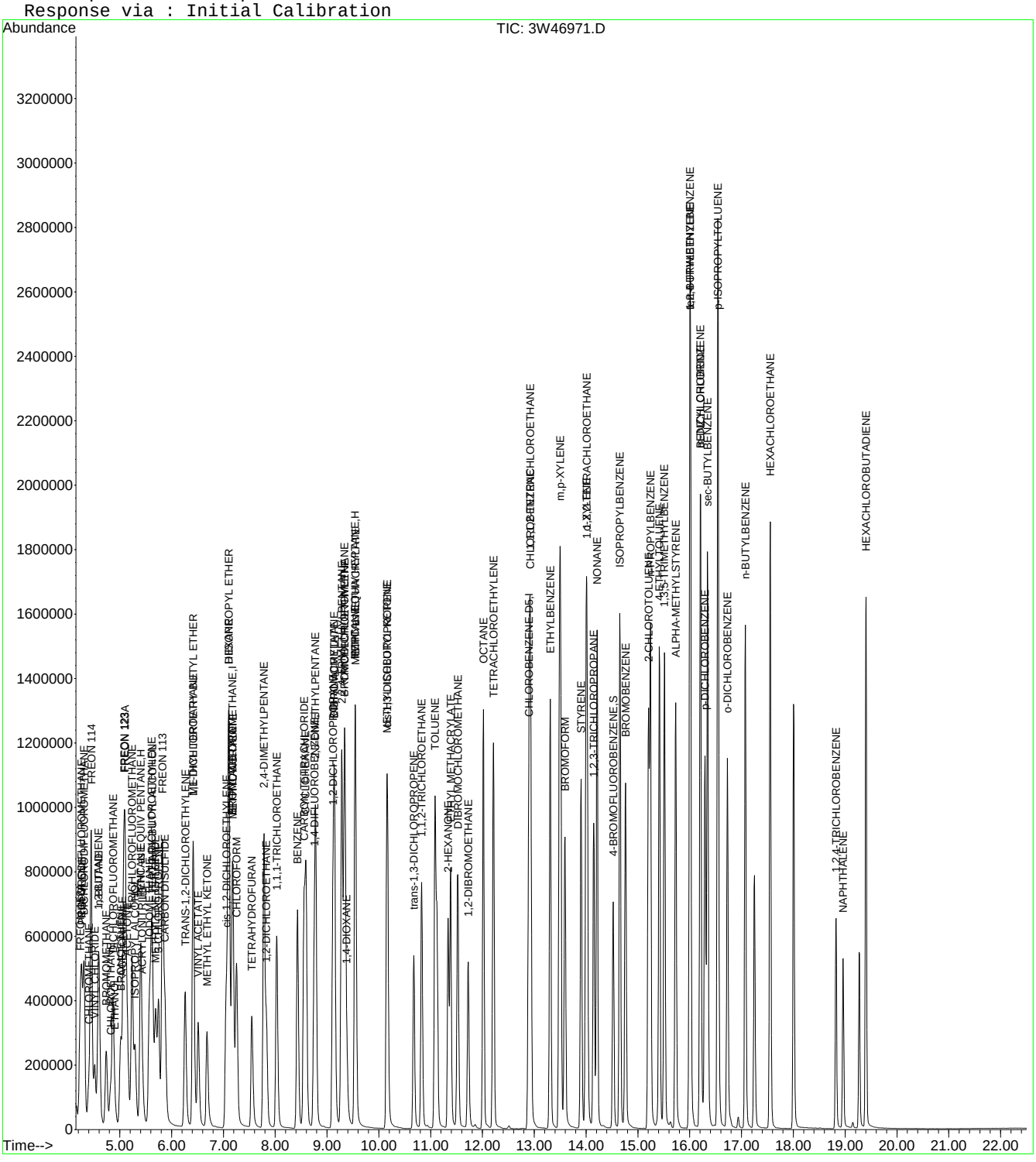
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
56)	TRICHLOROETHYLENE	9.35	95	373789	19.76	PPBV	100
57)	1,2-DICHLOROPROPANE	9.11	63	336826	19.80	PPBV	98
58)	DIBROMOMETHANE	9.14	174	331948	19.96	PPBV	99
59)	ETHYL ACRYLATE	9.15	55	626830	20.97	PPBV	100
60)	BROMODICHLOROMETHANE	9.33	83	624536	20.28	PPBV	99
61)	2,2,4-TRIMETHYLPENTANE	9.29	57	1405495	19.33	PPBV	100
62)	1,4-DIOXANE	9.38	88	173043	17.58	PPBV	98
63)	HEPTANE	9.54	43	538405	19.91	PPBV	99
64)	TVHC as EQUIV HEPTANE	9.54	TIC	3608857m	20.24	PPBV	
65)	METHYL METHACRYLATE	9.55	69	310294	20.78	PPBV	97
66)	METHYL ISOBUTYL KETONE	10.15	58	274039	20.88	PPBV	99
67)	cis-1,3-DICHLOROPROPENE	10.17	75	487111	20.97	PPBV	99
68)	TOLUENE	11.09	92	593020	20.39	PPBV	99
69)	trans-1,3-DICHLOROPROPENE	10.67	75	416076	21.31	PPBV	100
70)	1,1,2-TRICHLOROETHANE	10.83	83	300241	20.31	PPBV	100
72)	2-HEXANONE	11.34	58	361818	19.70	PPBV	100
73)	ETHYL METHACRYLATE	11.39	69	522648	19.72	PPBV	97
74)	TETRACHLOROETHYLENE	12.21	164	377113	18.89	PPBV	99
75)	DIBROMOCHLOROMETHANE	11.53	129	599709	19.10	PPBV	100
76)	1,2-DIBROMOETHANE	11.73	107	497108	19.91	PPBV	99
77)	OCTANE	12.02	43	709849	18.59	PPBV	99
78)	1,1,1,2-TETRACHLOROETHANE	12.91	131	429847	18.66	PPBV	99
79)	CHLOROBENZENE	12.93	112	737121	19.59	PPBV	100
80)	ETHYLBENZENE	13.31	91	1254686	18.99	PPBV	99
81)	m,p-XYLENE	13.50	106	957298	38.23	PPBV	98
82)	o-XYLENE	14.00	106	467551	19.10	PPBV	100
83)	STYRENE	13.90	104	707048	20.00	PPBV	100
84)	NONANE	14.21	43	707999	19.10	PPBV	99
85)	BROMOFORM	13.59	173	600007	19.67	PPBV	99
87)	1,1,2,2-TETRACHLOROETHANE	14.02	83	736613	19.16	PPBV	100
88)	1,2,3-TRICHLOROPROPANE	14.15	75	547128	19.40	PPBV	100
89)	ISOPROPYLBENZENE	14.65	105	1366170	18.73	PPBV	99
90)	BROMOBENZENE	14.76	77	644779	19.92	PPBV	100
91)	2-CHLOROTOLUENE	15.21	126	336887	19.47	PPBV	99
92)	n-PROPYLBENZENE	15.24	120	363079	19.48	PPBV	99
93)	4-ETHYLTOLUENE	15.41	105	1270557	19.20	PPBV	99
94)	1,3,5-TRIMETHYLBENZENE	15.51	105	1099244	19.09	PPBV	100
95)	ALPHA-METHYLSTYRENE	15.73	118	538340	19.97	PPBV	99
96)	tert-BUTYLBENZENE	16.00	134	246865	19.11	PPBV	95
97)	1,2,4-TRIMETHYLBENZENE	16.01	105	1061278	19.14	PPBV	98
98)	m-DICHLOROBENZENE	16.20	146	653463	20.09	PPBV	99
99)	BENZYL CHLORIDE	16.21	91	875774	20.96	PPBV	99
100)	p-DICHLOROBENZENE	16.29	146	650100	20.47	PPBV	100
101)	sec-BUTYLBENZENE	16.34	134	303700	19.55	PPBV	94
102)	p-ISOPROPYLTOLUENE	16.55	134	321583	19.61	PPBV	94
103)	o-DICHLOROBENZENE	16.73	146	632295	19.93	PPBV	99
104)	n-BUTYLBENZENE	17.07	134	280753	20.49	PPBV	96
105)	HEXACHLOROETHANE	17.55	117	476564	19.27	PPBV	99
106)	HEXACHLOROBUTADIENE	19.40	225	379205	19.89	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.83	180	266174	23.80	PPBV	100
108)	NAPHTHALENE	18.96	128	506667	24.64	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W46971.D M3W1782.M Thu Apr 16 11:22:49 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46971.D
Vial: 1
Acq On : 14 Apr 2015 7:56 pm
Operator: YOUMINH
Sample : IC1782-20
Inst : MS3W
Misc : MS83225,V3W1782,,,,,1
Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 9:53 2015
Quant Results File: M3W1782.RES

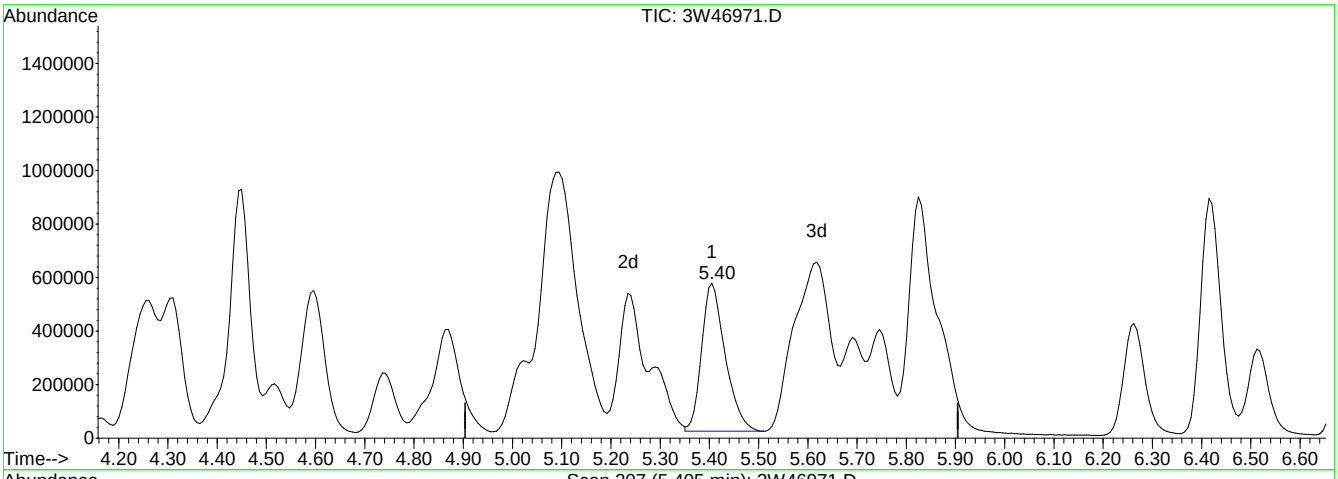
Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Initial Calibration

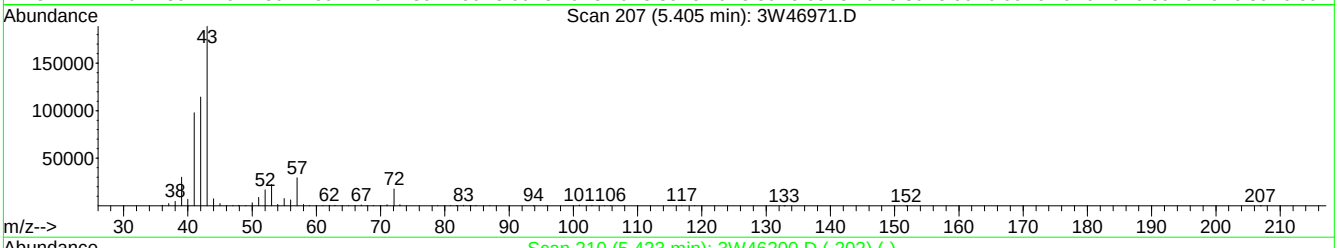


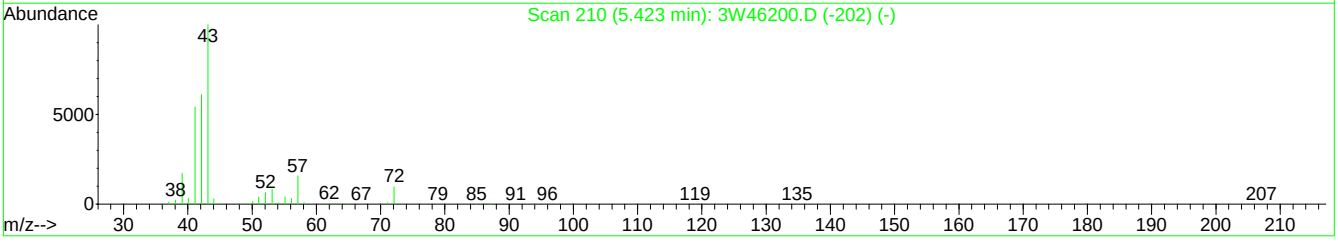
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W46971.D Vial: 1
Acq On : 14 Apr 2015 7:56 pm Operator: YOUMINH
Sample : IC1782-20 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 9:53 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 10:07:57 2015
Response via : Multiple Level Calibration







TIC: 3W46971.D

(25) TVHC as EQUIV PENTANE (H)

5.40min 19.73PPBV m

response 1846190

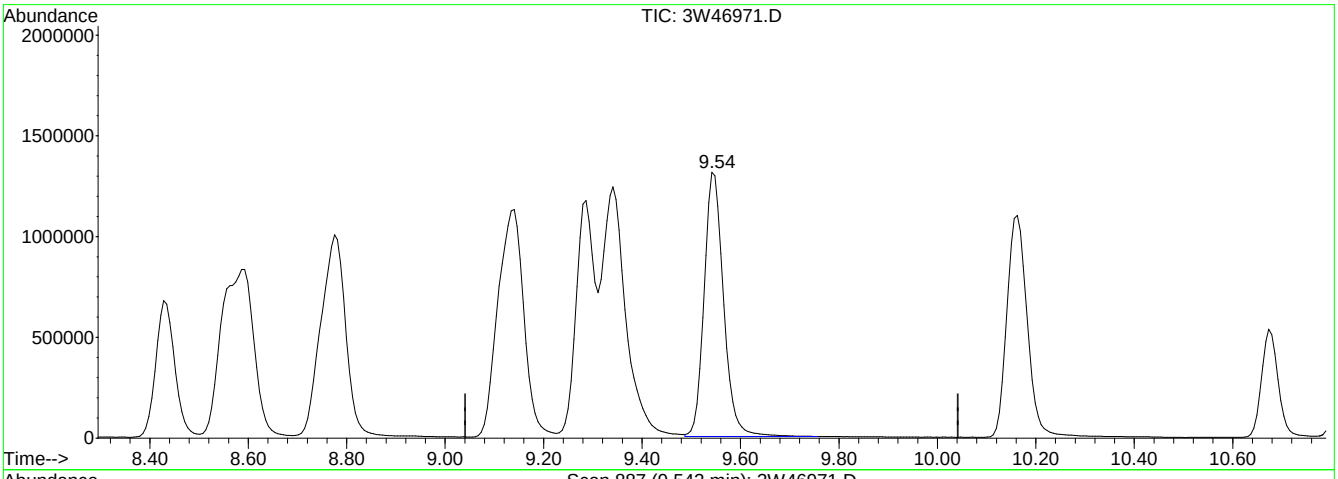
Signal	Exp%	Act%
TIC	100	100
0.00	2.50	3.48#
0.00	2.20	2.95#
0.00	0.00	0.00

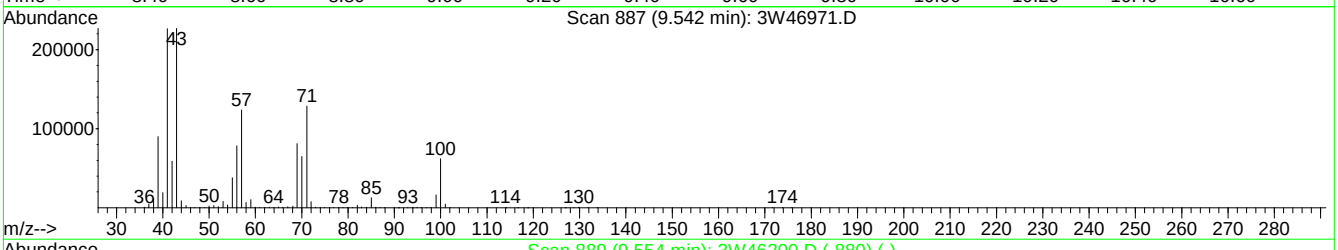
3W46971.D M3W1782.M Wed Apr 15 11:02:11 2015 MS3W

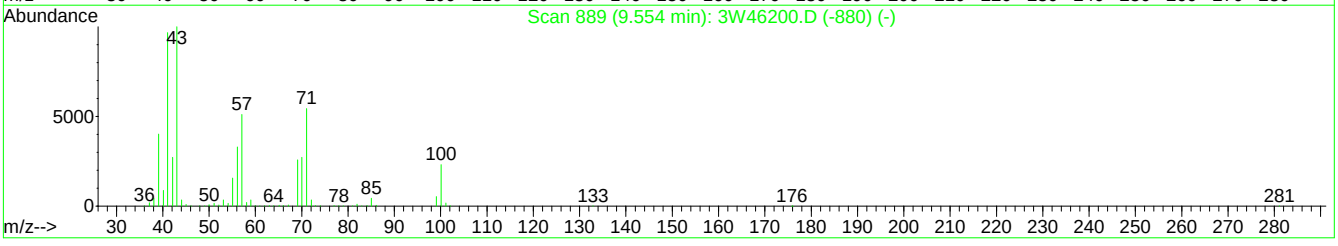
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W46971.D Vial: 1
Acq On : 14 Apr 2015 7:56 pm Operator: YOUMINH
Sample : IC1782-20 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 9:53 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 10:07:57 2015
Response via : Multiple Level Calibration







TIC: 3W46971.D

(64) TVHC as EQUIV HEPTANE (H)

9.54min 20.24PPBV m

response 3608857

Signal	Exp%	Act%
TIC	100	100
0.00	1.30	1.78#
0.00	1.20	1.51#
0.00	0.00	0.00

3W46971.D M3W1782.M Wed Apr 15 11:08:37 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46972.D Vial: 1
Acq On : 14 Apr 2015 8:37 pm Operator: YOUMINH
Sample : IC1782-15 Inst : MS3W
Misc : MS83225,V3W1782,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 09:49:00 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 09:47:29 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.16	128	119179	10.00 PPBV	0.00
52) 1,4-DIFLUOROBENZENE	8.74	114	526896	10.00 PPBV	0.00
71) CHLOROBENZENE-D5	12.89	82	264017	10.00 PPBV	0.00
System Monitoring Compounds					
86) 4-BROMOFLUOROBENZENE	14.52	95	314451	9.90 PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery =	99.00%	
Target Compounds					Qvalue
4) FREON 152A	4.23	65	150889	14.28 PPBV	100
5) CHLORODIFLUOROMETHANE	4.26	67	58166	14.15 PPBV	98
6) DICHLORODIFLUOROMETHANE	4.31	85	579669	14.14 PPBV	100
7) PROPYLENE	4.27	41	187087	13.79 PPBV	100
9) FREON 114	4.44	85	597601	14.16 PPBV	98
10) CHLOROMETHANE	4.40	50	266375	14.18 PPBV	100
11) VINYL CHLORIDE	4.52	62	260240	14.30 PPBV	100
12) 1,3-BUTADIENE	4.58	54	188161	14.09 PPBV	97
13) n-BUTANE	4.60	43	356830	13.76 PPBV	99
14) BROMOMETHANE	4.74	94	228092	14.35 PPBV	99
15) CHLOROETHANE	4.82	64	133602	14.03 PPBV	99
16) DICHLOROFLUOROMETHANE	4.86	67	504690	13.98 PPBV	100
17) ACETONITRILE	5.04	41	163817	14.26 PPBV	99
18) FREON 123	5.08	83	537997	14.30 PPBV	100
19) FREON 123A	5.11	117	293791	14.59 PPBV	96
20) TRICHLOROFLUOROMETHANE	5.23	101	551436	14.26 PPBV	99
22) ISOPROPYL ALCOHOL	5.30	45	407500	14.22 PPBV	100
23) ACETONE	5.15	58	101827	14.54 PPBV	98
24) PENTANE	5.40	42	255897	14.08 PPBV	100
25) TVHC as EQUIV PENTANE	5.40	TIC	1401137m	14.27 PPBV	
26) IODOMETHANE	5.57	142	575795	14.53 PPBV	100
27) 1,1-DICHLOROETHYLENE	5.61	96	214538	14.23 PPBV	99
28) CARBON DISULFIDE	5.87	76	648653	14.36 PPBV	98
29) ETHANOL	4.91	45	91145	14.03 PPBV	99
30) BROMOETHENE	5.02	106	226485	14.57 PPBV	99
31) ACRYLONITRILE	5.43	52	131415	14.40 PPBV	94
32) METHYLENE CHLORIDE	5.69	84	194273	14.59 PPBV	93
33) 3-CHLOROPROPENE	5.75	76	105654	14.42 PPBV	97
34) FREON 113	5.82	151	337944	14.49 PPBV	99
35) TRANS-1,2-DICHLOROETHYLENE	6.26	96	219787	14.31 PPBV	98
36) TERTIARY BUTYL ALCOHOL	5.63	59	524443	14.36 PPBV	99
37) METHYL TERTIARY BUTYL ETHE	6.41	73	601185	14.69 PPBV	99
38) TETRAHYDROFURAN	7.55	72	106969	15.18 PPBV	94
39) HEXANE	7.09	57	352052	14.08 PPBV	99
40) VINYL ACETATE	6.51	86	44747	14.76 PPBV	99
41) 1,1-DICHLOROETHANE	6.41	63	414355	14.32 PPBV	99
42) METHYL ETHYL KETONE	6.68	72	104576	14.98 PPBV	95
43) cis-1,2-DICHLOROETHYLENE	7.05	96	229292	14.67 PPBV	99
44) DIISOPROPYL ETHER	7.11	59	89596	14.77 PPBV #	93
45) ETHYL ACETATE	7.18	61	82243	14.76 PPBV	98
46) METHYL ACRYLATE	7.19	55	352317	14.61 PPBV	99
47) CHLOROFORM	7.25	83	449801	14.50 PPBV	100
48) 2,4-DIMETHYLPENTANE	7.78	57	426843	14.28 PPBV	100
49) 1,1,1-TRICHLOROETHANE	8.03	97	435407	14.47 PPBV	100
50) CARBON TETRACHLORIDE	8.56	117	461794	14.38 PPBV	99
51) 1,2-DICHLOROETHANE	7.83	62	267295	14.70 PPBV	100
53) BENZENE	8.43	78	665866	14.60 PPBV	100
54) CYCLOHEXANE	8.59	84	371751	14.40 PPBV	99
55) 2,3-DIMETHYLPENTANE	8.78	71	154564	14.50 PPBV	96

(#) = qualifier out of range (m) = manual integration
3W46972.D M3W1782.M Thu Apr 16 11:22:50 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46972.D Vial: 1
Acq On : 14 Apr 2015 8:37 pm Operator: YOUMINH
Sample : IC1782-15 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 09:49:00 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 09:47:29 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

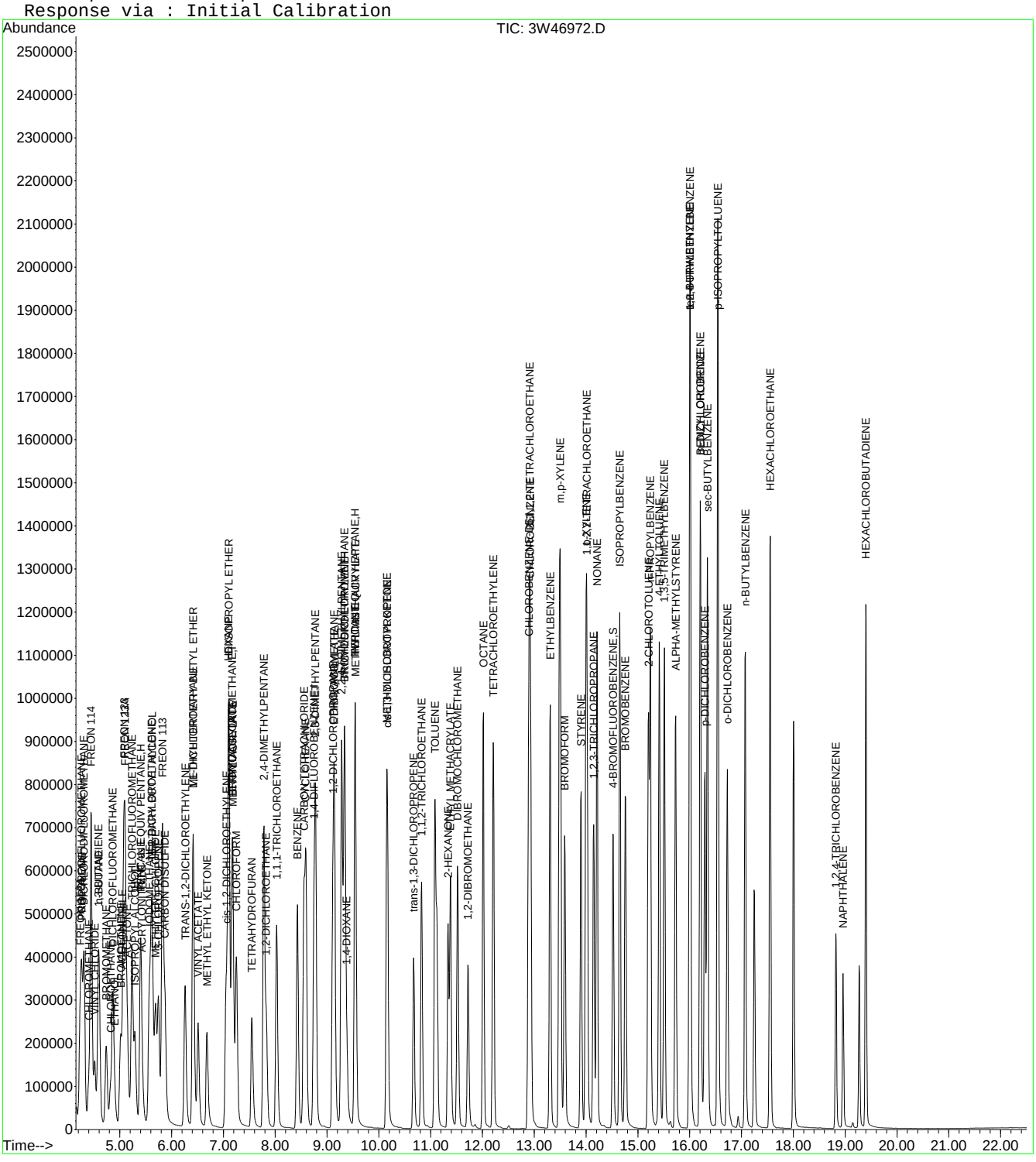
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
56)	TRICHLOROETHYLENE	9.35	95	287723	14.78	PPBV	99
57)	1,2-DICHLOROPROPANE	9.11	63	251797	14.38	PPBV	98
58)	DIBROMOMETHANE	9.13	174	255316	14.92	PPBV	100
59)	ETHYL ACRYLATE	9.15	55	459917	14.95	PPBV	100
60)	BROMODICHLOROMETHANE	9.33	83	470509	14.85	PPBV	99
61)	2,2,4-TRIMETHYLPENTANE	9.28	57	1073225	14.34	PPBV	100
62)	1,4-DIOXANE	9.38	88	149854	14.79	PPBV	98
63)	HEPTANE	9.54	43	404690	14.55	PPBV	99
64)	TVHC as EQUIV HEPTANE	9.54	TIC	2703107m	14.74	PPBV	
65)	METHYL METHACRYLATE	9.55	69	231442	15.06	PPBV	97
66)	METHYL ISOBUTYL KETONE	10.15	58	204184	15.12	PPBV	99
67)	cis-1,3-DICHLOROPROPENE	10.17	75	361185	15.11	PPBV	100
68)	TOLUENE	11.08	92	444922	14.87	PPBV	100
69)	trans-1,3-DICHLOROPROPENE	10.67	75	307753	15.32	PPBV	99
70)	1,1,2-TRICHLOROETHANE	10.83	83	224398	14.75	PPBV	99
72)	2-HEXANONE	11.34	58	268897	15.03	PPBV	100
73)	ETHYL METHACRYLATE	11.39	69	386160	14.96	PPBV	99
74)	TETRACHLOROETHYLENE	12.21	164	285420	14.68	PPBV	100
75)	DIBROMOCHLOROMETHANE	11.52	129	453108	14.81	PPBV	99
76)	1,2-DIBROMOETHANE	11.72	107	367475	15.11	PPBV	99
77)	OCTANE	12.02	43	532733	14.33	PPBV	99
78)	1,1,1,2-TETRACHLOROETHANE	12.91	131	327588	14.60	PPBV	100
79)	CHLOROBENZENE	12.93	112	546223	14.90	PPBV	99
80)	ETHYLBENZENE	13.31	91	940018	14.60	PPBV	99
81)	m,p-XYLENE	13.50	106	717299	29.41	PPBV	99
82)	o-XYLENE	13.99	106	351040	14.72	PPBV	100
83)	STYRENE	13.90	104	518251	15.05	PPBV	100
84)	NONANE	14.21	43	523394	14.49	PPBV	99
85)	BROMOFORM	13.59	173	447670	15.07	PPBV	100
87)	1,1,2,2-TETRACHLOROETHANE	14.02	83	549504	14.67	PPBV	100
88)	1,2,3-TRICHLOROPROPANE	14.15	75	406628	14.81	PPBV	99
89)	ISOPROPYLBENZENE	14.65	105	1035329	14.58	PPBV	99
90)	BROMOBENZENE	14.76	77	469334	14.89	PPBV	99
91)	2-CHLOROTOLUENE	15.21	126	250184	14.84	PPBV	99
92)	n-PROPYLBENZENE	15.24	120	267829	14.75	PPBV	99
93)	4-ETHYLTOLUENE	15.41	105	944846	14.66	PPBV	99
94)	1,3,5-TRIMETHYLBENZENE	15.51	105	818485	14.59	PPBV	100
95)	ALPHA-METHYLSTYRENE	15.73	118	396049	15.08	PPBV	99
96)	tert-BUTYLBENZENE	16.00	134	184228	14.64	PPBV	98
97)	1,2,4-TRIMETHYLBENZENE	16.01	105	795095	14.72	PPBV	99
98)	m-DICHLOROBENZENE	16.20	146	482127	15.22	PPBV	100
99)	BENZYL CHLORIDE	16.21	91	634825	15.60	PPBV	100
100)	p-DICHLOROBENZENE	16.29	146	476062	15.39	PPBV	99
101)	sec-BUTYLBENZENE	16.34	134	223078	14.74	PPBV	97
102)	p-ISOPROPYLTOLUENE	16.54	134	239429	14.99	PPBV	96
103)	o-DICHLOROBENZENE	16.73	146	464195	15.02	PPBV	99
104)	n-BUTYLBENZENE	17.07	134	202682	15.19	PPBV	98
105)	HEXACHLOROETHANE	17.55	117	352762	14.64	PPBV	100
106)	HEXACHLOROBUTADIENE	19.40	225	277527	14.94	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.82	180	185830	17.06	PPBV	100
108)	NAPHTHALENE	18.96	128	351088	17.53	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W46972.D M3W1782.M Thu Apr 16 11:22:51 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46972.D Vial: 1
Acq On : 14 Apr 2015 8:37 pm Operator: YOUMINH
Sample : IC1782-15 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 9:53 2015 Quant Results File: M3W1782.RES

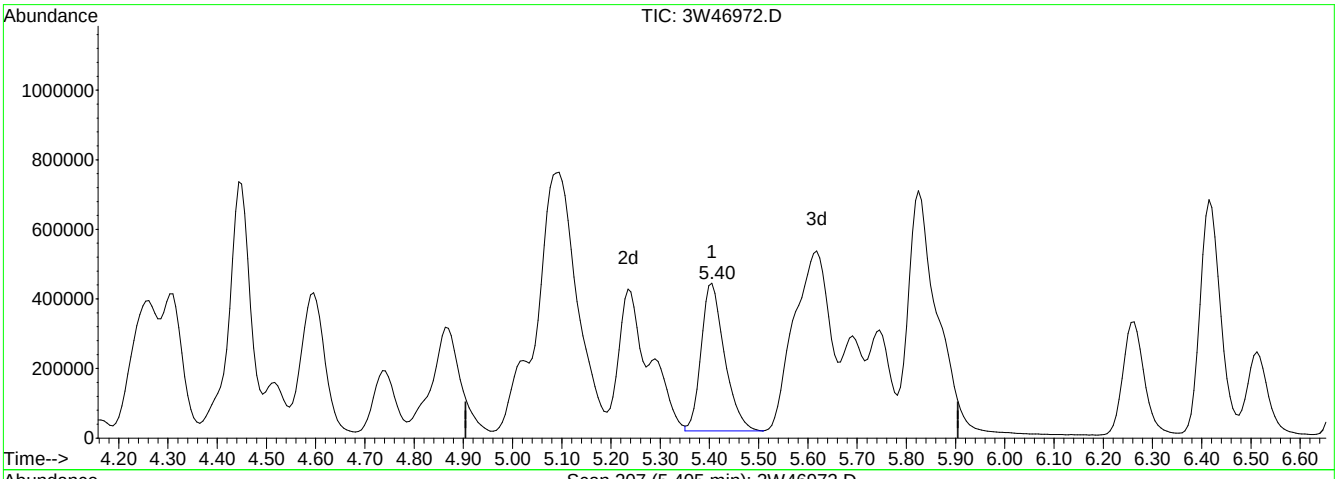
Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Initial Calibration

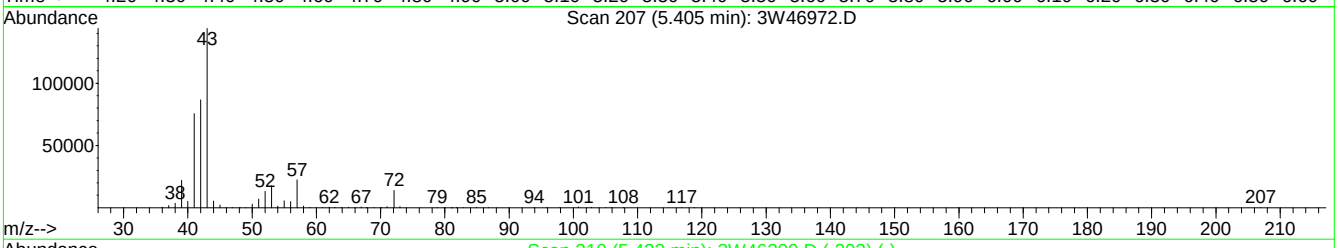


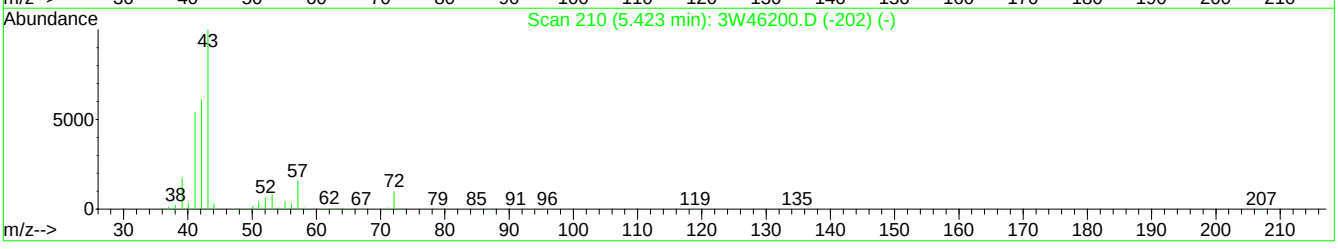
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W46972.D Vial: 1
Acq On : 14 Apr 2015 8:37 pm Operator: YOUMINH
Sample : IC1782-15 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 9:53 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 10:07:57 2015
Response via : Multiple Level Calibration







TIC: 3W46972.D

(25) TVHC as EQUIV PENTANE (H)

5.40min 14.27PPBV m

response 1401137

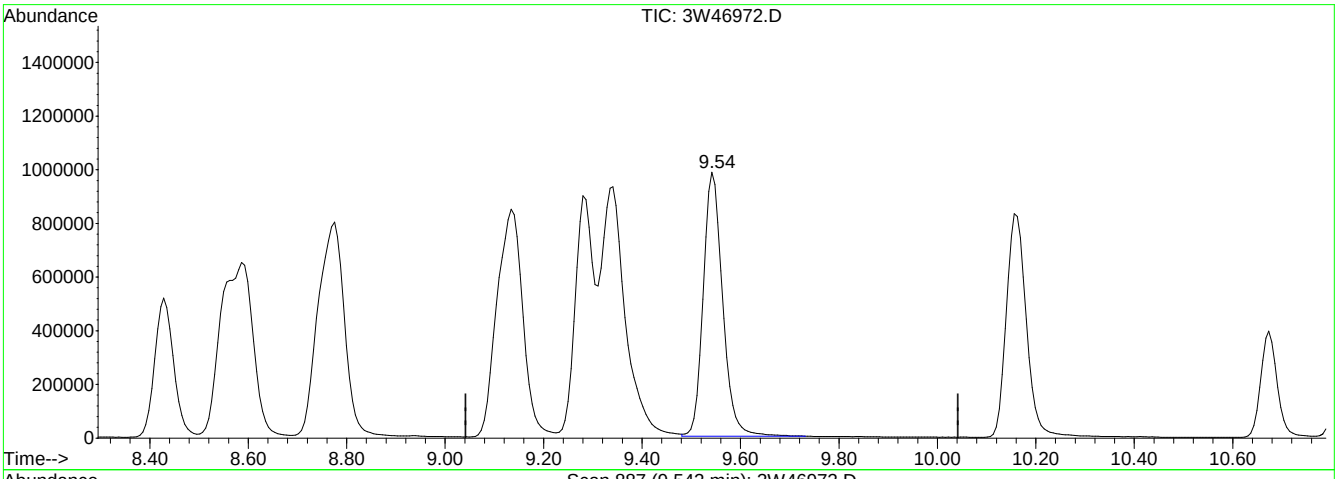
Signal	Exp%	Act%
TIC	100	100
0.00	2.50	3.07#
0.00	2.20	2.70#
0.00	0.00	0.00

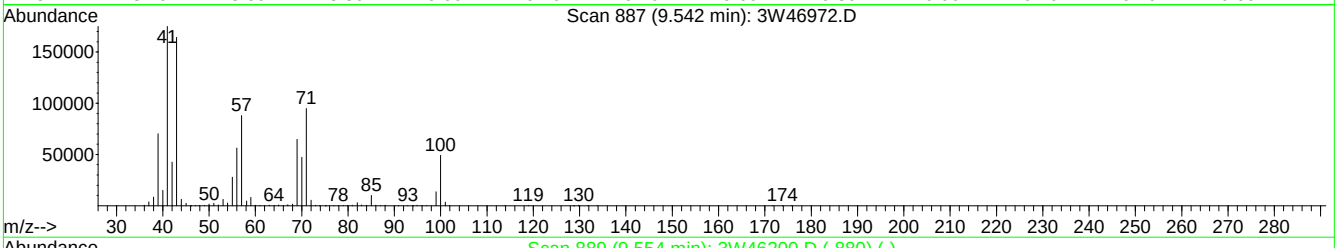
3W46972.D M3W1782.M Wed Apr 15 11:02:16 2015 MS3W

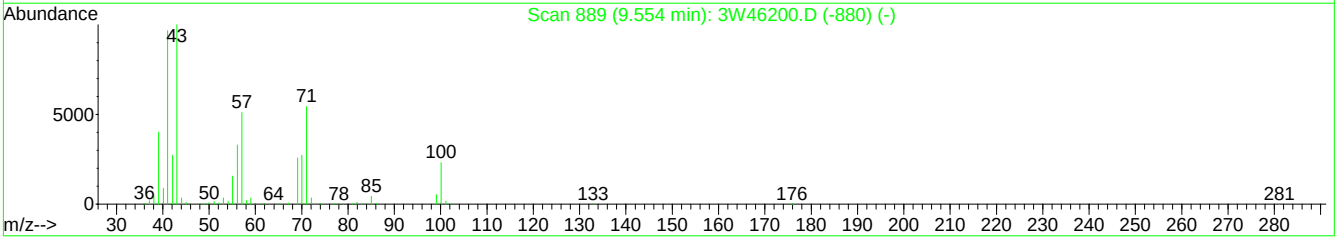
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W46972.D Vial: 1
Acq On : 14 Apr 2015 8:37 pm Operator: YOUMINH
Sample : IC1782-15 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 9:53 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 10:07:57 2015
Response via : Multiple Level Calibration







TIC: 3W46972.D

(64) TVHC as EQUIV HEPTANE (H)

9.54min 14.74PPBV m

response 2703107

Signal	Exp%	Act%
TIC	100	100
0.00	1.30	1.59#
0.00	1.20	1.40#
0.00	0.00	0.00

3W46972.D M3W1782.M Wed Apr 15 11:08:44 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46974.D Vial: 3
Acq On : 14 Apr 2015 9:56 pm Operator: YOUMINH
Sample : IC1782-0.1 Inst : MS3W
Misc : MS83225,V3W1782,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 09:49:04 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 09:47:29 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.16	128	117715	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	8.74	114	511326	10.00	PPBV	0.00
71) CHLOROBENZENE-D5	12.88	82	225879	10.00	PPBV	0.00

System Monitoring Compounds

86) 4-BROMOFLUOROBENZENE	14.52	95	234344	8.63	PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 86.30%

Target Compounds						Qvalue
4) FREON 152A	4.24	65	1111	0.11	PPBV	88
5) CHLORODIFLUOROMETHANE	4.26	67	426	0.10	PPBV	93
6) DICHLORODIFLUOROMETHANE	4.31	85	4337	0.11	PPBV	97
7) PROPYLENE	4.27	41	1528	0.11	PPBV #	85
9) FREON 114	4.45	85	4436	0.11	PPBV	97
10) CHLOROMETHANE	4.41	50	2145	0.12	PPBV	97
11) VINYL CHLORIDE	4.51	62	1740	0.10	PPBV #	95
12) 1,3-BUTADIENE	4.59	54	1145	0.09	PPBV #	56
13) n-BUTANE	4.61	43	3148	0.12	PPBV #	93
14) BROMOMETHANE	4.74	94	1772	0.11	PPBV #	94
15) CHLOROETHANE	4.82	64	898	0.10	PPBV	81
16) DICHLOROFLUOROMETHANE	4.87	67	3823	0.11	PPBV #	94
18) FREON 123	5.08	83	3961	0.11	PPBV	100
19) FREON 123A	5.11	117	2162	0.11	PPBV	95
20) TRICHLOROFLUOROMETHANE	5.23	101	4003	0.10	PPBV	95
22) ISOPROPYL ALCOHOL	5.33	45	2842	0.10	PPBV	78
23) ACETONE	5.19	58	916	0.13	PPBV #	82
24) PENTANE	5.40	42	2257	0.13	PPBV	96
25) TVHC as EQUIV PENTANE	5.40	TIC	8532m	0.09	PPBV	
26) IODOMETHANE	5.57	142	3936	0.10	PPBV	95
27) 1,1-DICHLOROETHYLENE	5.61	96	1538	0.10	PPBV	100
28) CARBON DISULFIDE	5.87	76	4525	0.10	PPBV	71
29) ETHANOL	4.94	45	818	0.13	PPBV #	81
30) BROMOETHENE	5.02	106	1467	0.10	PPBV #	94
31) ACRYLONITRILE	5.47	52	612	0.07	PPBV #	83
32) METHYLENE CHLORIDE	5.70	84	1540	0.12	PPBV	94
33) 3-CHLOROPROPENE	5.75	76	626	0.09	PPBV #	5
34) FREON 113	5.82	151	2255	0.10	PPBV	93
35) TRANS-1,2-DICHLOROETHYLENE	6.26	96	1411	0.09	PPBV	98
36) TERTIARY BUTYL ALCOHOL	5.68	59	2716	0.08	PPBV #	70
37) METHYL TERTIARY BUTYL ETHE	6.46	73	3637	0.09	PPBV	94
38) TETRAHYDROFURAN	7.61	72	531	0.08	PPBV #	86
39) HEXANE	7.09	57	2492	0.10	PPBV	91
41) 1,1-DICHLOROETHANE	6.41	63	2955	0.10	PPBV	97
42) METHYL ETHYL KETONE	6.72	72	482	0.07	PPBV #	41
43) cis-1,2-DICHLOROETHYLENE	7.05	96	1393	0.09	PPBV	98
44) DIISOPROPYL ETHER	7.14	59	395	0.07	PPBV #	39
46) METHYL ACRYLATE	7.22	55	1754	0.07	PPBV #	1
47) CHLOROFORM	7.24	83	3084	0.10	PPBV #	80
48) 2,4-DIMETHYLPENTANE	7.78	57	2840	0.10	PPBV	97
49) 1,1,1-TRICHLOROETHANE	8.03	97	3036	0.10	PPBV	97
50) CARBON TETRACHLORIDE	8.55	117	3198	0.10	PPBV	97
51) 1,2-DICHLOROETHANE	7.81	62	1579	0.09	PPBV #	92
53) BENZENE	8.43	78	4452	0.10	PPBV	98
54) CYCLOHEXANE	8.58	84	2497	0.10	PPBV	97
56) TRICHLOROETHYLENE	9.33	95	1914	0.10	PPBV	94
57) 1,2-DICHLOROPROPANE	9.11	63	2279	0.13	PPBV	79
58) DIBROMOMETHANE	9.13	174	1629	0.10	PPBV	90
60) BROMODICHLOROMETHANE	9.31	83	3003	0.10	PPBV	93

(#) = qualifier out of range (m) = manual integration
3W46974.D M3W1782.M Thu Apr 16 11:22:52 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46974.D Vial: 3
Acq On : 14 Apr 2015 9:56 pm Operator: YOUMINH
Sample : IC1782-0.1 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 09:49:04 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 09:47:29 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

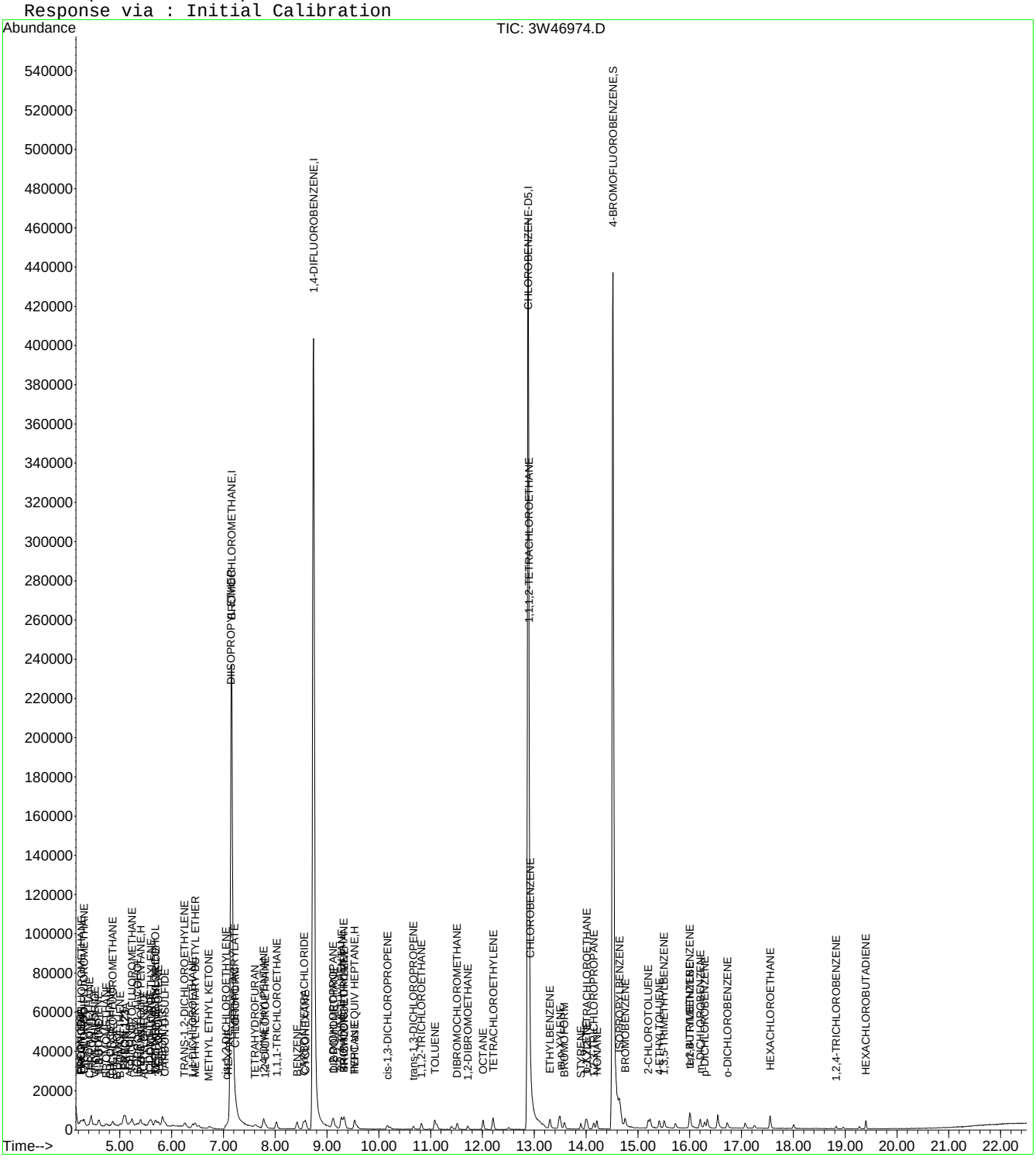
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
61)	2,2,4-TRIMETHYLPENTANE	9.28	57	7666	0.11 PPBV	100
63)	HEPTANE	9.53	43	2709	0.10 PPBV	94
64)	TVHC as EQUIV HEPTANE	9.53	TIC	14482m	0.08 PPBV	
67)	cis-1,3-DICHLOROPROPENE	10.16	75	1842	0.08 PPBV	96
68)	TOLUENE	11.07	92	3012	0.10 PPBV	98
69)	trans-1,3-DICHLOROPROPENE	10.67	75	1365	0.07 PPBV	98
70)	1,1,2-TRICHLOROETHANE	10.83	83	1334	0.09 PPBV	94
74)	TETRACHLOROETHYLENE	12.20	164	2042	0.12 PPBV	97
75)	DIBROMOCHLOROMETHANE	11.51	129	2471	0.09 PPBV	97
76)	1,2-DIBROMOETHANE	11.72	107	1947	0.09 PPBV #	91
77)	OCTANE	12.01	43	2815	0.09 PPBV	94
78)	1,1,1,2-TETRACHLOROETHANE	12.91	131	1797	0.09 PPBV	91
79)	CHLOROBENZENE	12.92	112	3177	0.10 PPBV #	44
80)	ETHYLBENZENE	13.30	91	5070	0.09 PPBV	96
81)	m,p-XYLENE	13.50	106	3722	0.18 PPBV	97
82)	o-XYLENE	13.99	106	1672	0.08 PPBV #	83
83)	STYRENE	13.90	104	1920	0.07 PPBV	97
84)	NONANE	14.21	43	2209	0.07 PPBV #	94
85)	BROMOFORM	13.58	173	2099	0.08 PPBV #	93
87)	1,1,2,2-TETRACHLOROETHANE	14.02	83	2564	0.08 PPBV #	95
88)	1,2,3-TRICHLOROPROPANE	14.15	75	1920	0.08 PPBV	94
89)	ISOPROPYLBENZENE	14.65	105	5361	0.09 PPBV	99
90)	BROMOBENZENE	14.75	77	2538	0.09 PPBV	92
91)	2-CHLOROTOLUENE	15.21	126	1072	0.07 PPBV	97
93)	4-ETHYLTOLUENE	15.41	105	3663	0.07 PPBV #	96
94)	1,3,5-TRIMETHYLBENZENE	15.50	105	3776	0.08 PPBV	98
96)	tert-BUTYLBENZENE	15.99	134	736	0.07 PPBV #	61
97)	1,2,4-TRIMETHYLBENZENE	16.00	105	3181	0.07 PPBV #	84
98)	m-DICHLOROBENZENE	16.20	146	2079	0.08 PPBV	98
100)	p-DICHLOROBENZENE	16.29	146	2142	0.08 PPBV	95
103)	o-DICHLOROBENZENE	16.73	146	2009	0.08 PPBV	98
105)	HEXACHLOROETHANE	17.55	117	2254	0.11 PPBV #	78
106)	HEXACHLOROBUTADIENE	19.40	225	1046	0.07 PPBV	98
107)	1,2,4-TRICHLOROBENZENE	18.83	180	615	0.07 PPBV #	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W46974.D M3W1782.M Thu Apr 16 11:22:53 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46974.D Vial: 3
Acq On : 14 Apr 2015 9:56 pm Operator: YOUMINH
Sample : IC1782-0.1 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 9:56 2015 Quant Results File: M3W1782.RES

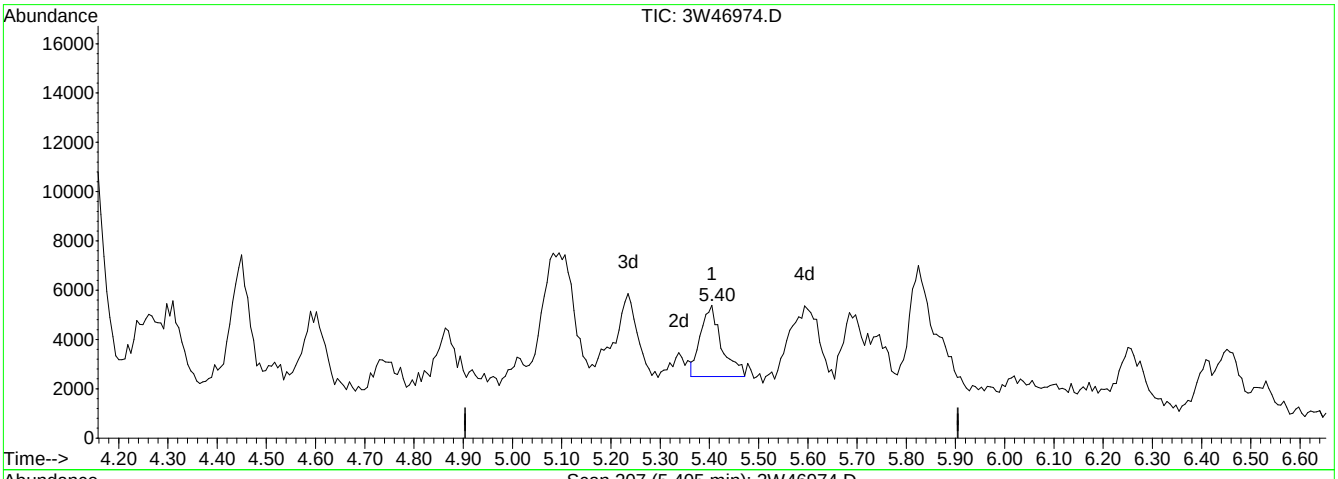
Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Initial Calibration

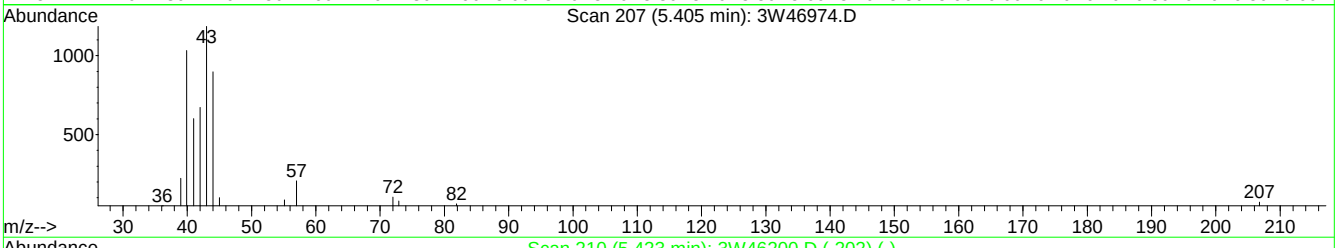


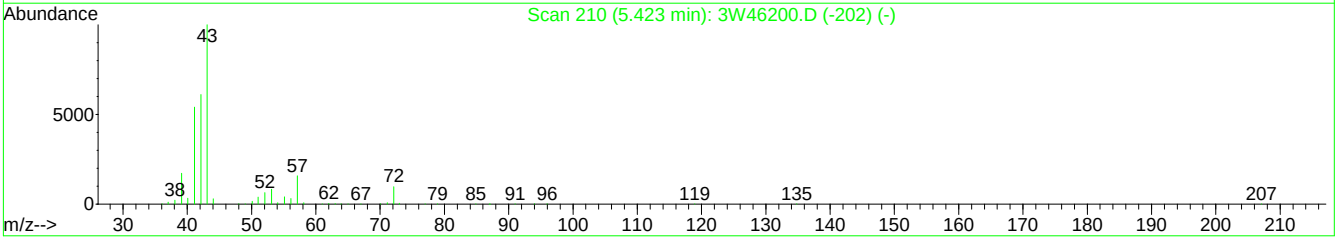
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W46974.D Vial: 3
Acq On : 14 Apr 2015 9:56 pm Operator: YOUMINH
Sample : IC1782-0.1 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 9:56 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 10:07:57 2015
Response via : Multiple Level Calibration







TIC: 3W46974.D

(25) TVHC as EQUIV PENTANE (H)

5.40min 0.09PPBV m

response 8532

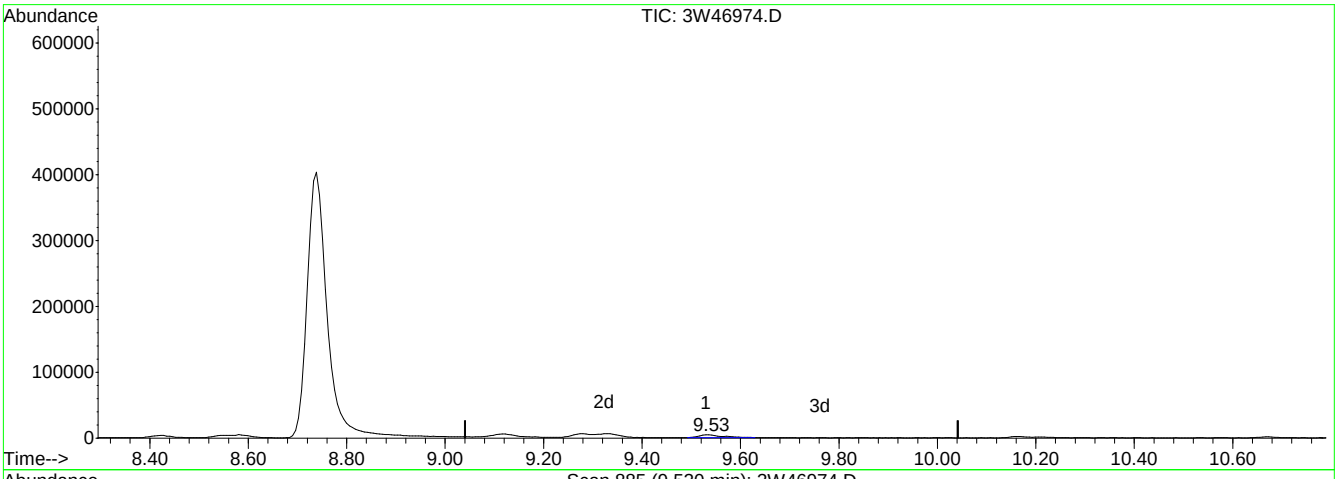
Signal	Exp%	Act%
TIC	100	100
0.00	2.50	0.00
0.00	2.20	0.00
0.00	0.00	0.00

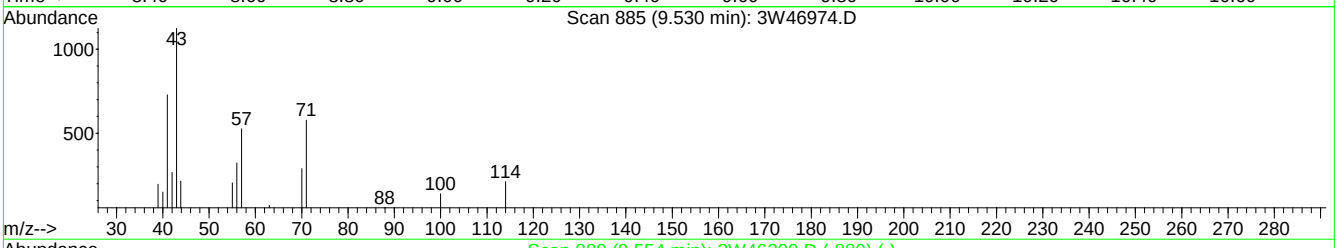
3W46974.D M3W1782.M Wed Apr 15 11:02:22 2015 MS3W

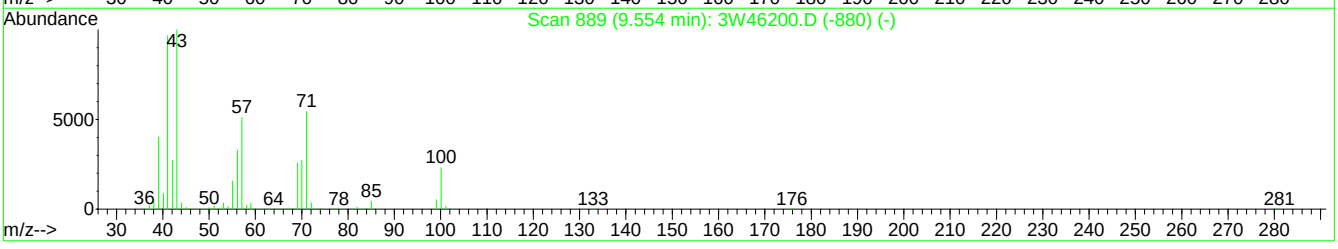
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W46974.D Vial: 3
Acq On : 14 Apr 2015 9:56 pm Operator: YOUMINH
Sample : IC1782-0.1 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 9:56 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 10:07:57 2015
Response via : Multiple Level Calibration







TIC: 3W46974.D

(64) TVHC as EQUIV HEPTANE (H)

9.53min 0.08PPBV m

response 14482

Signal	Exp%	Act%
TIC	100	100
0.00	1.30	0.00
0.00	1.20	0.00
0.00	0.00	0.00

3W46974.D M3W1782.M Wed Apr 15 11:08:51 2015 MS3W

Manual Integrations APPROVED (compounds with "m" flag)
Jessica Reitan-Chu 04/16/15 12:30

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46975.D Vial: 3
Acq On : 14 Apr 2015 10:36 pm Operator: YOUMINH
Sample : IC1782-0.04 Inst : MS3W
Misc : MS83225,V3W1782,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 09:49:06 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 09:47:29 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.16	128	114162	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	8.74	114	489240	10.00	PPBV	0.00
71) CHLOROBENZENE-D5	12.88	82	213113	10.00	PPBV	0.00

System Monitoring Compounds

86) 4-BROMOFLUOROBENZENE	14.52	95	219835	8.58	PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 85.80%

Target Compounds						Qvalue
6) DICHLORODIFLUOROMETHANE	4.31	85	1924	0.05	PPBV	98
9) FREON 114	4.45	85	2108	0.05	PPBV	93
11) VINYL CHLORIDE	4.51	62	825	0.05	PPBV #	50
12) 1,3-BUTADIENE	4.58	54	612	0.05	PPBV #	48
15) CHLOROETHANE	4.81	64	392	0.04	PPBV #	35
16) DICHLOROFLUOROMETHANE	4.87	67	1777	0.05	PPBV #	90
18) FREON 123	5.08	83	1836	0.05	PPBV	97
19) FREON 123A	5.11	117	905	0.05	PPBV #	80
20) TRICHLOROFLUOROMETHANE	5.23	101	1908	0.05	PPBV #	94
25) TVHC as EQUIV PENTANE	5.40	TIC	3222m	0.03	PPBV	
26) IODOMETHANE	5.56	142	1776	0.05	PPBV	99
27) 1,1-DICHLOROETHYLENE	5.60	96	679	0.05	PPBV	98
28) CARBON DISULFIDE	5.88	76	2233	0.05	PPBV #	68
30) BROMOETHENE	5.02	106	701	0.05	PPBV #	95
33) 3-CHLOROPROPENE	5.73	76	274	0.04	PPBV #	13
34) FREON 113	5.82	151	1029	0.05	PPBV	95
35) TRANS-1,2-DICHLOROETHYLENE	6.26	96	685	0.05	PPBV	85
36) TERTIARY BUTYL ALCOHOL	5.70	59	1298	0.04	PPBV #	70
37) METHYL TERTIARY BUTYL ETHE	6.46	73	1658	0.04	PPBV	90
39) HEXANE	7.08	57	1003	0.04	PPBV #	82
41) 1,1-DICHLOROETHANE	6.41	63	1376	0.05	PPBV #	84
43) cis-1,2-DICHLOROETHYLENE	7.05	96	604	0.04	PPBV	96
47) CHLOROFORM	7.24	83	1446	0.05	PPBV #	85
48) 2,4-DIMETHYLPENTANE	7.77	57	1275	0.04	PPBV	100
49) 1,1,1-TRICHLOROETHANE	8.02	97	1388	0.05	PPBV	96
50) CARBON TETRACHLORIDE	8.55	117	1461	0.05	PPBV	95
51) 1,2-DICHLOROETHANE	7.82	62	636	0.04	PPBV #	49
53) BENZENE	8.43	78	1975	0.05	PPBV	99
54) CYCLOHEXANE	8.59	84	1122	0.05	PPBV #	81
56) TRICHLOROETHYLENE	9.35	95	874	0.05	PPBV	95
58) DIBROMOMETHANE	9.13	174	687	0.04	PPBV #	83
60) BROMODICHLOROMETHANE	9.32	83	1305	0.04	PPBV	100
61) 2,2,4-TRIMETHYLPENTANE	9.27	57	3678	0.05	PPBV #	97
63) HEPTANE	9.53	43	1200	0.05	PPBV	93
64) TVHC as EQUIV HEPTANE	9.53	TIC	6071m	0.04	PPBV	
67) cis-1,3-DICHLOROPROPENE	10.17	75	815	0.04	PPBV #	42
68) TOLUENE	11.07	92	1505	0.05	PPBV	92
69) trans-1,3-DICHLOROPROPENE	10.66	75	516	0.03	PPBV #	74
70) 1,1,2-TRICHLOROETHANE	10.81	83	523	0.04	PPBV	98
74) TETRACHLOROETHYLENE	12.21	164	852	0.05	PPBV	95
75) DIBROMOCHLOROMETHANE	11.51	129	1100	0.04	PPBV #	83
76) 1,2-DIBROMOETHANE	11.72	107	719	0.04	PPBV #	98
77) OCTANE	12.01	43	1186	0.04	PPBV	95
78) 1,1,1,2-TETRACHLOROETHANE	12.90	131	822	0.05	PPBV	92
79) CHLOROBENZENE	12.92	112	1401	0.05	PPBV #	36
80) ETHYLBENZENE	13.30	91	2243m	0.04	PPBV	
81) m,p-XYLENE	13.50	106	1601	0.08	PPBV	90
82) o-XYLENE	13.99	106	706	0.04	PPBV #	76
83) STYRENE	13.90	104	766	0.03	PPBV	92

(#) = qualifier out of range (m) = manual integration
3W46975.D M3W1782.M Thu Apr 16 11:22:54 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46975.D Vial: 3
Acq On : 14 Apr 2015 10:36 pm Operator: YOUMINH
Sample : IC1782-0.04 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 09:49:06 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 09:47:29 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

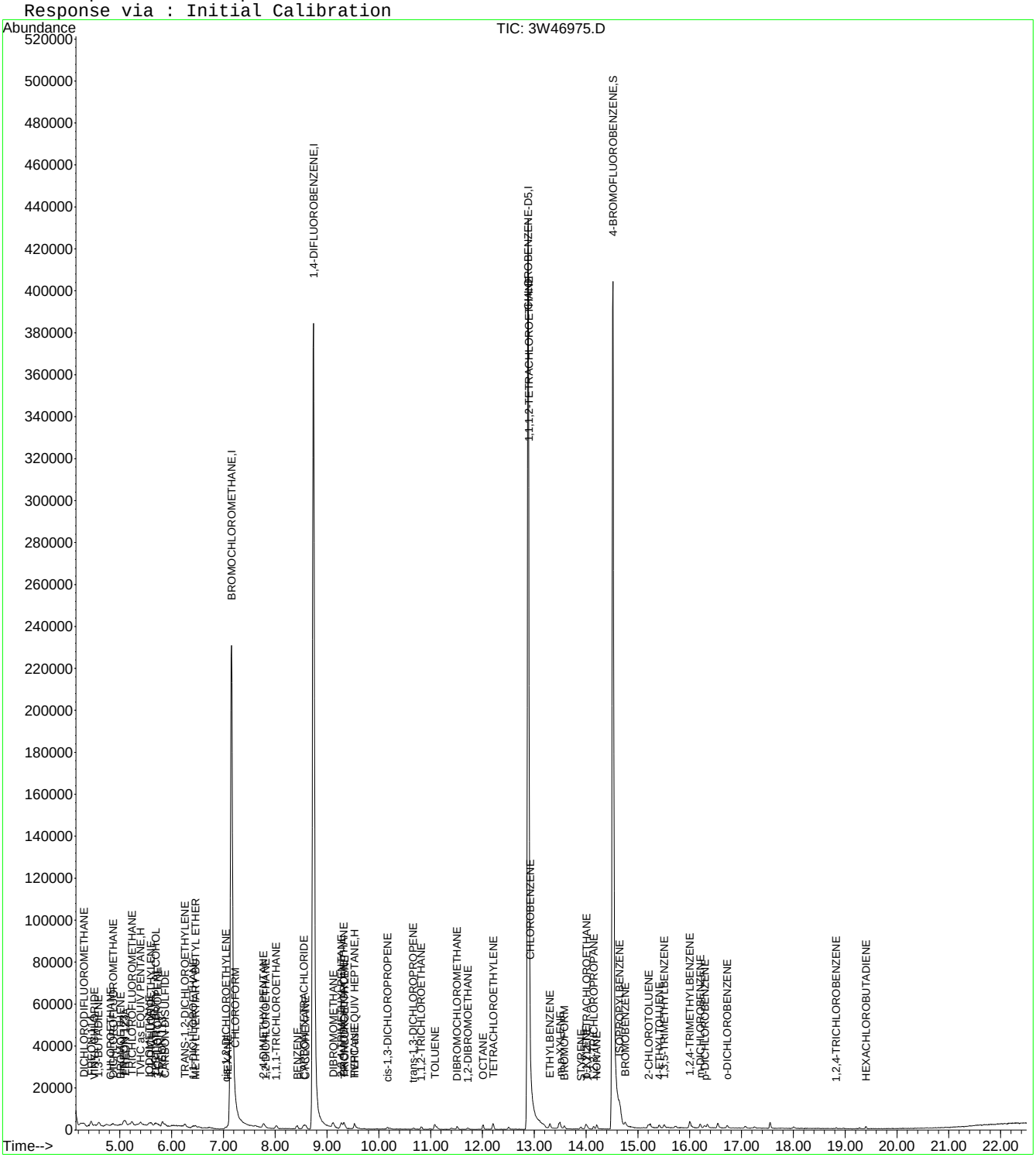
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
84)	NONANE	14.20	43	937	0.03	PPBV	#	57
85)	BROMOFORM	13.58	173	817	0.03	PPBV	#	93
87)	1,1,2,2-TETRACHLOROETHANE	14.01	83	1168	0.04	PPBV	#	88
88)	1,2,3-TRICHLOROPROPANE	14.15	75	844	0.04	PPBV		84
89)	ISOPROPYLBENZENE	14.65	105	2211	0.04	PPBV		93
90)	BROMOBENZENE	14.75	77	1146	0.05	PPBV	#	85
91)	2-CHLOROTOLUENE	15.20	126	473	0.03	PPBV	#	43
93)	4-ETHYLTOLUENE	15.41	105	1561m	0.03	PPBV		
94)	1,3,5-TRIMETHYLBENZENE	15.51	105	1578	0.03	PPBV	#	84
97)	1,2,4-TRIMETHYLBENZENE	16.01	105	1367	0.03	PPBV	#	84
98)	m-DICHLOROBENZENE	16.20	146	887	0.03	PPBV		99
100)	p-DICHLOROBENZENE	16.29	146	972	0.04	PPBV		90
103)	o-DICHLOROBENZENE	16.72	146	930	0.04	PPBV		95
106)	HEXACHLOROBUTADIENE	19.40	225	409	0.03	PPBV		95
107)	1,2,4-TRICHLOROBENZENE	18.83	180	239	0.03	PPBV	#	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W46975.D M3W1782.M Thu Apr 16 11:22:54 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46975.D Vial: 3
Acq On : 14 Apr 2015 10:36 pm Operator: YOUMINH
Sample : IC1782-0.04 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 16 11:17 2015 Quant Results File: M3W1782.RES

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Initial Calibration



Manual Integration Approval Summary

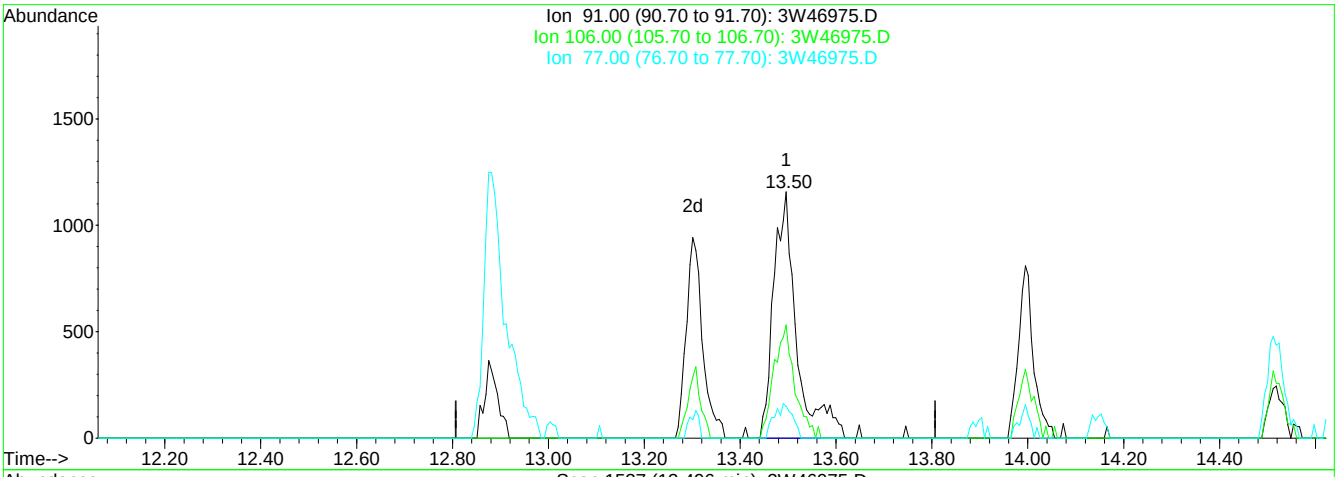
Sample Number:	V3W1782-IC1782	**Method:**	TO-15
Lab FileID:	3W46975.D	**Analyst approved:**	04/16/15 11:23 Youmin Hu
Injection Time:	04/14/15 22:36	**Supervisor approved:**	04/16/15 12:30 Jessica Reitan-Chu

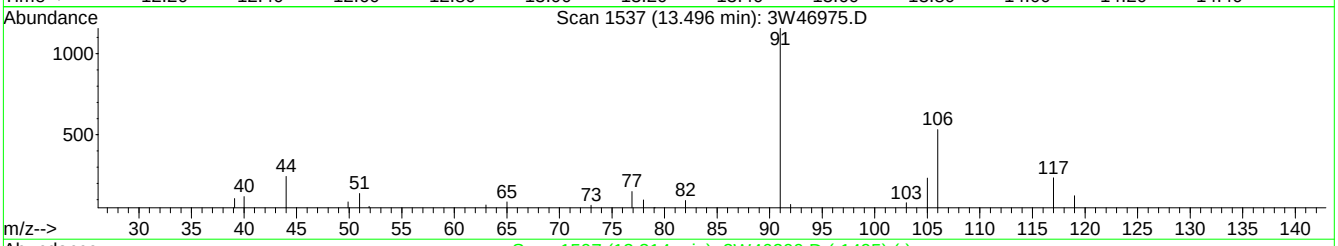
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethylbenzene	100-41-4		13.30	Poor instrument integration
4-Ethyltoluene	622-96-8		15.41	Overlapping peak

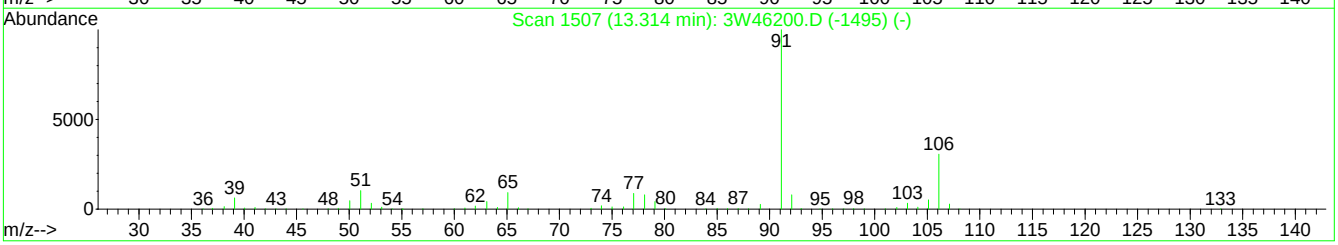
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W46975.D Vial: 3
Acq On : 14 Apr 2015 10:36 pm Operator: YOUMINH
Sample : IC1782-0.04 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 9:57 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 09:47:29 2015
Response via : Multiple Level Calibration







TIC: 3W46975.D

(80) ETHYLBENZENE

13.50min 0.07PPBV

response 3840

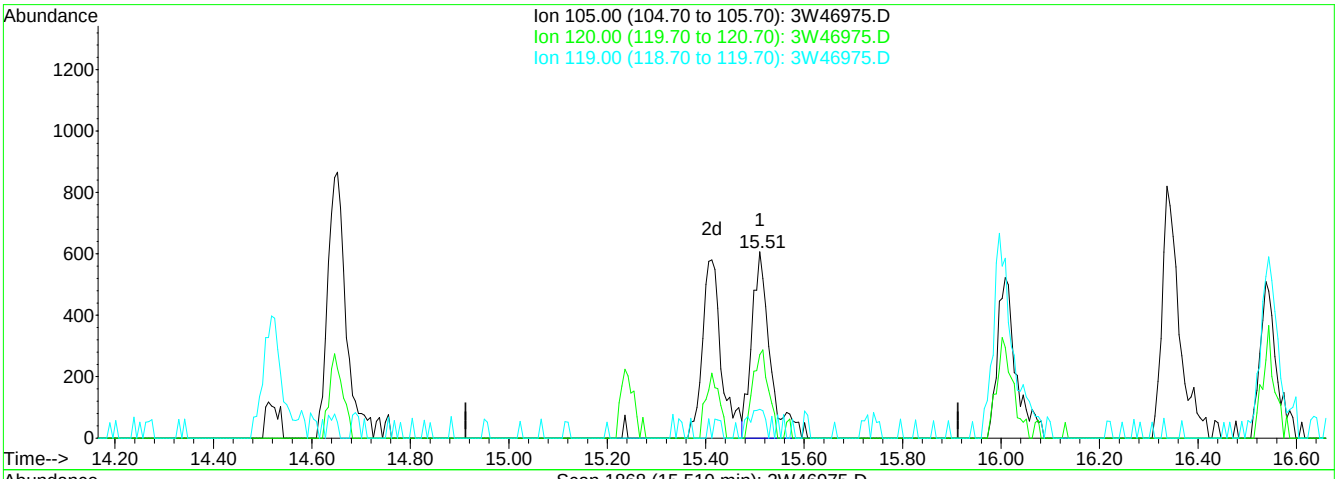
Ion	Exp%	Act%
91.00	100	100
106.00	31.00	41.69
77.00	8.60	11.17
0.00	0.00	0.00

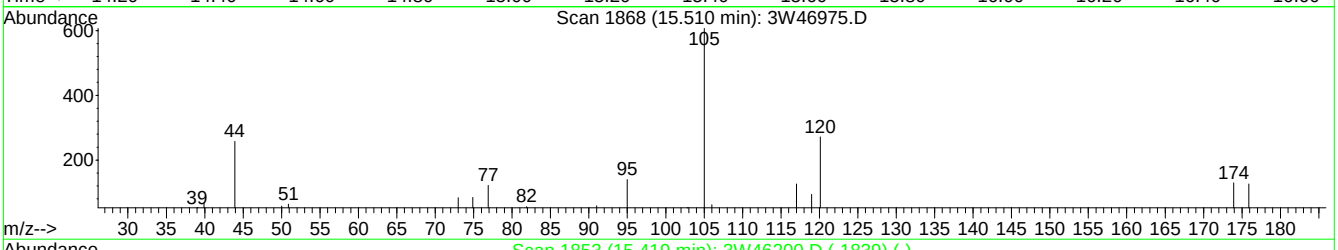
3W46975.D M3W1782.M Wed Apr 15 09:57:47 2015 MS3W

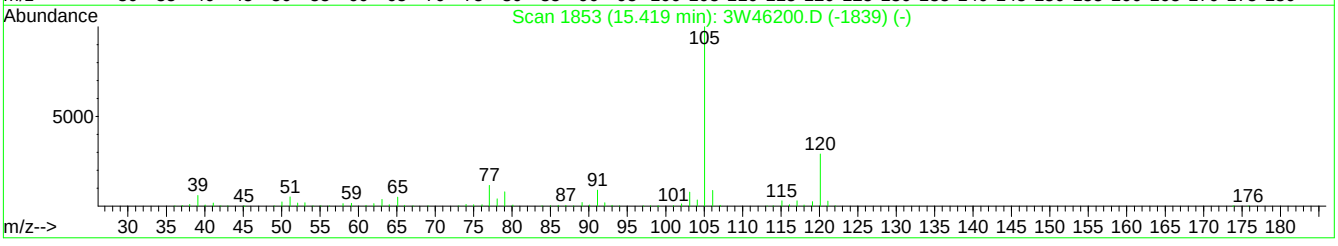
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W46975.D Vial: 3
Acq On : 14 Apr 2015 10:36 pm Operator: YOUMINH
Sample : IC1782-0.04 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 10:06 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 10:04:23 2015
Response via : Multiple Level Calibration







TIC: 3W46975.D

(93) 4-ETHYLTOLUENE

15.51min 0.03PPBV

response 1578

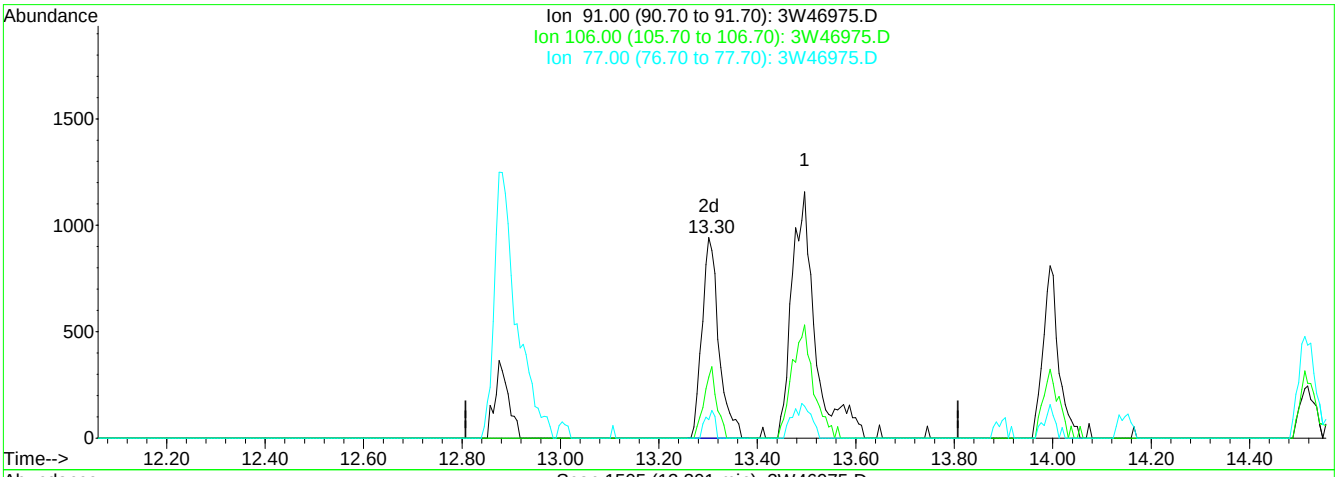
Ion	Exp%	Act%
105.00	100	100
120.00	29.50	40.37
119.00	2.40	13.94
0.00	0.00	0.00

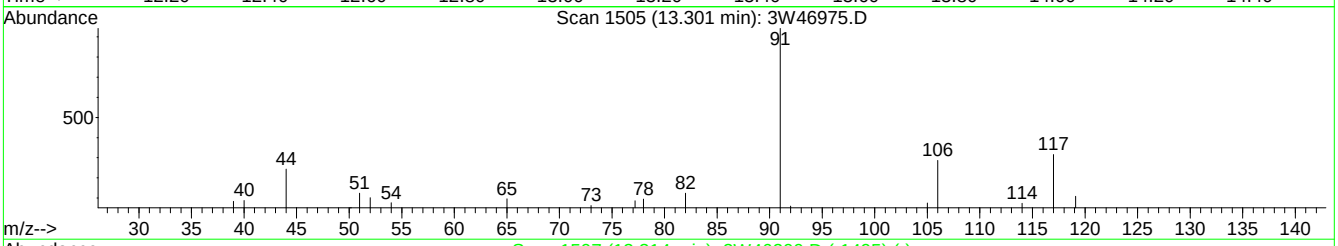
3W46975.D M3W1782.M Wed Apr 15 10:06:23 2015 MS3W

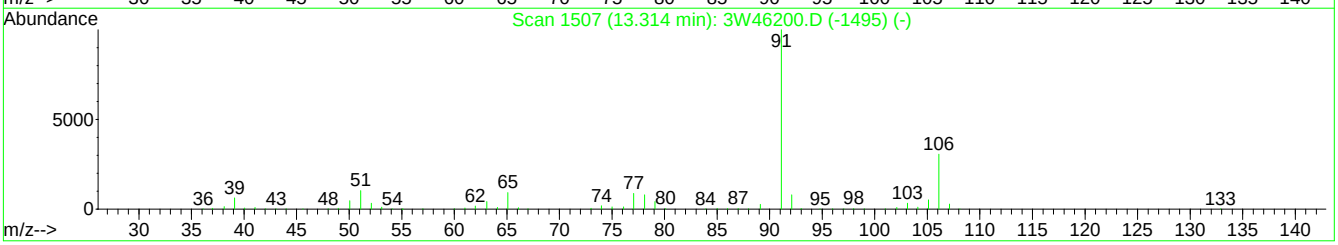
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W46975.D Vial: 3
Acq On : 14 Apr 2015 10:36 pm Operator: YOUMINH
Sample : IC1782-0.04 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 10:08 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 10:07:57 2015
Response via : Multiple Level Calibration







TIC: 3W46975.D

(80) ETHYLBENZENE

13.30min 0.04PPBV m

response 2243

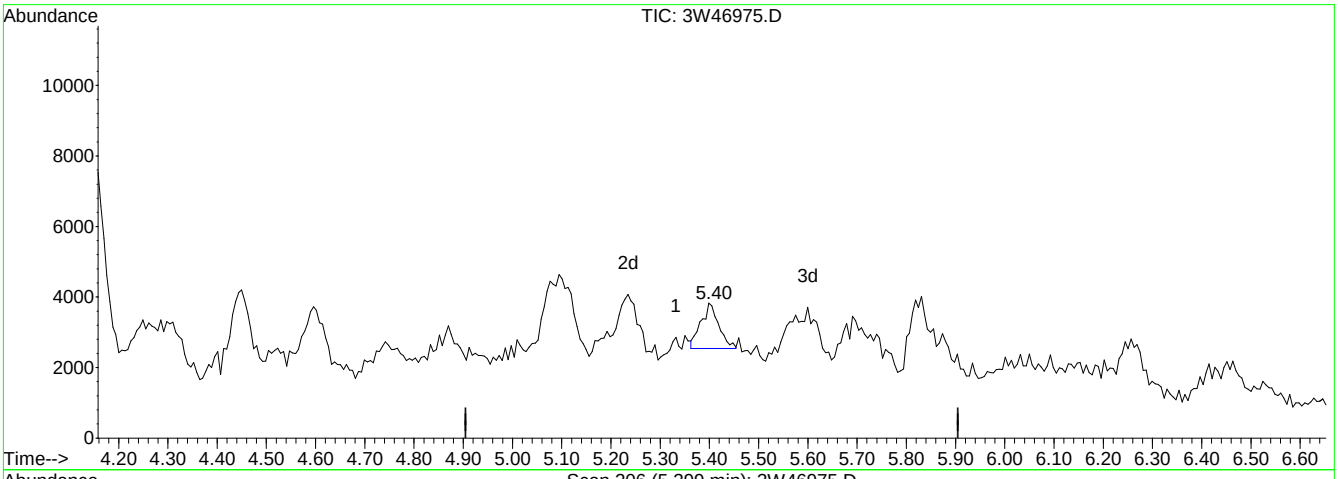
Ion	Exp%	Act%
91.00	100	100
106.00	31.00	71.38#
77.00	8.60	19.13
0.00	0.00	0.00

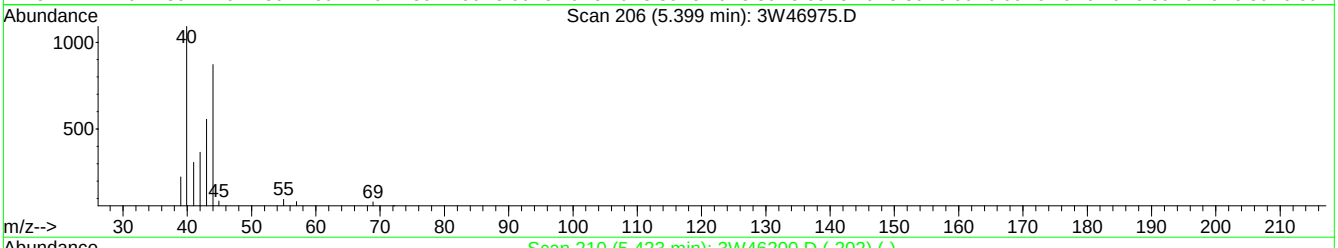
3W46975.D M3W1782.M Wed Apr 15 11:01:39 2015 MS3W

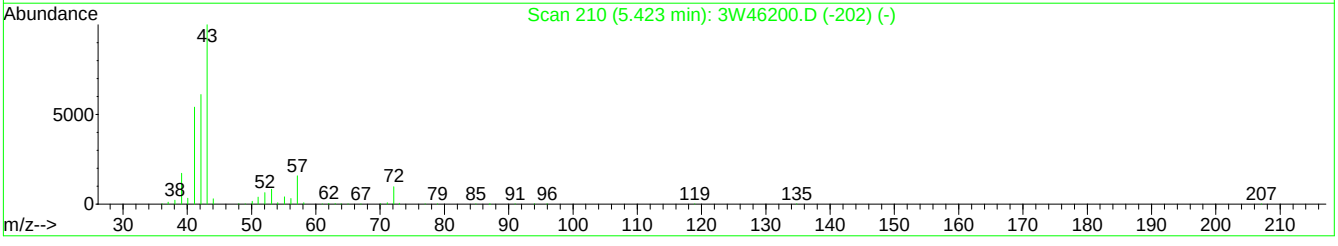
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W46975.D Vial: 3
Acq On : 14 Apr 2015 10:36 pm Operator: YOUMINH
Sample : IC1782-0.04 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 10:08 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 10:07:57 2015
Response via : Multiple Level Calibration







TIC: 3W46975.D

(25) TVHC as EQUIV PENTANE (H)

5.40min 0.03PPBV m

response 3222

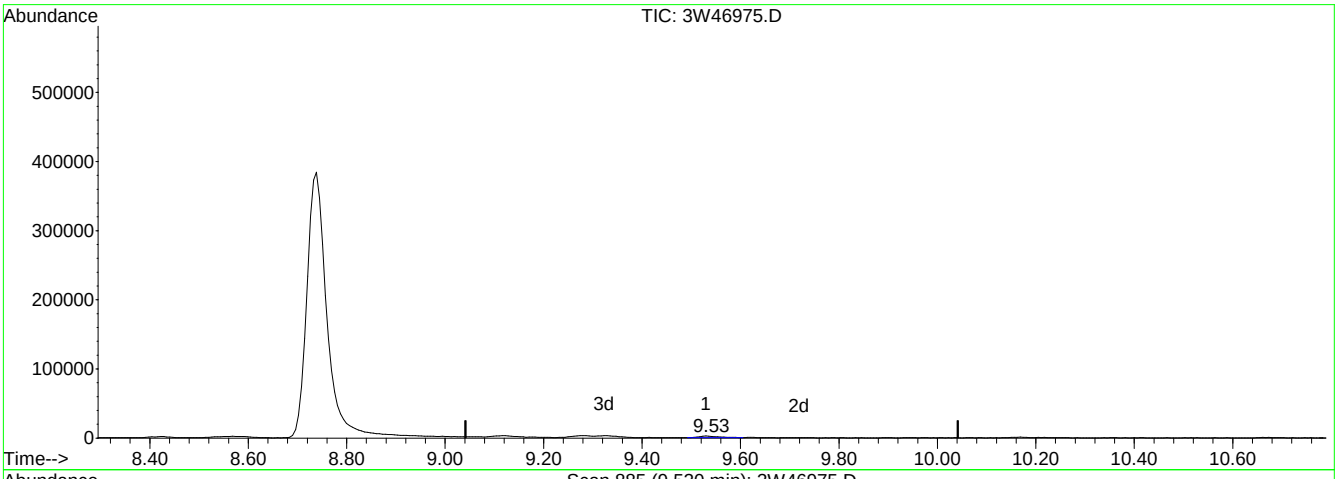
Signal	Exp%	Act%
TIC	100	100
0.00	2.50	0.00
0.00	2.20	0.00
0.00	0.00	0.00

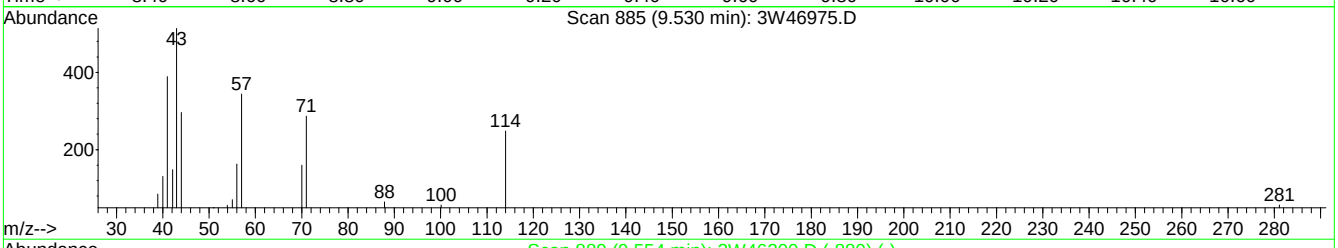
3W46975.D M3W1782.M Wed Apr 15 11:02:28 2015 MS3W

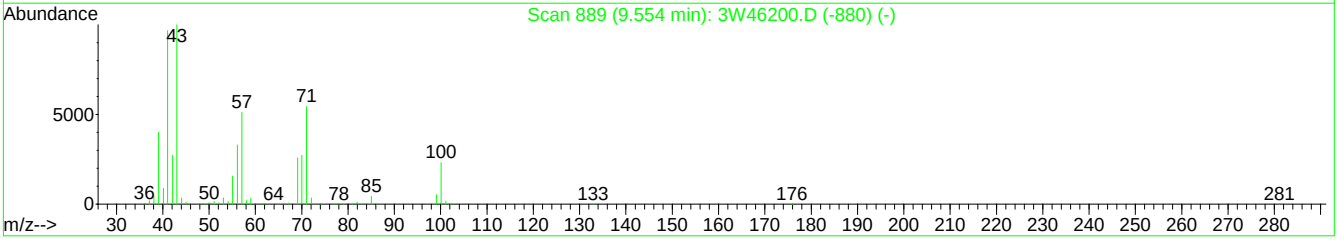
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W46975.D Vial: 3
Acq On : 14 Apr 2015 10:36 pm Operator: YOUMINH
Sample : IC1782-0.04 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 10:08 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 10:07:57 2015
Response via : Multiple Level Calibration







TIC: 3W46975.D

(64) TVHC as EQUIV HEPTANE (H)

9.53min 0.04PPBV m

response 6071

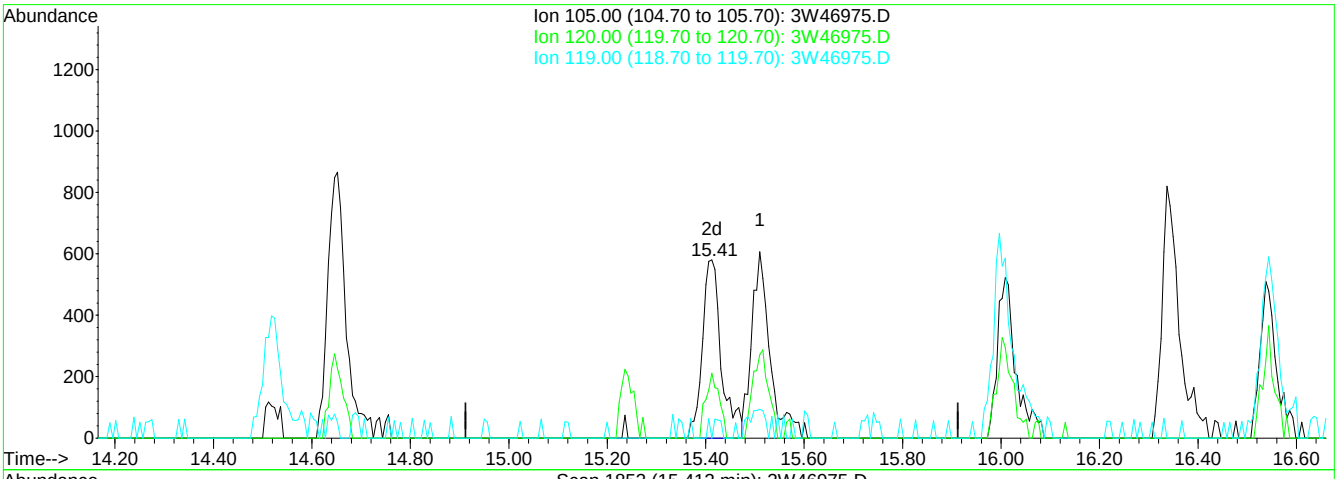
Signal	Exp%	Act%
TIC	100	100
0.00	1.30	0.00
0.00	1.20	0.00
0.00	0.00	0.00

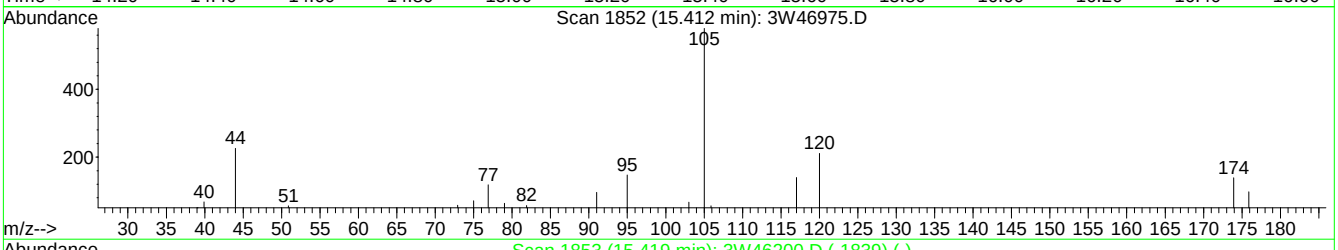
3W46975.D M3W1782.M Wed Apr 15 11:08:56 2015 MS3W

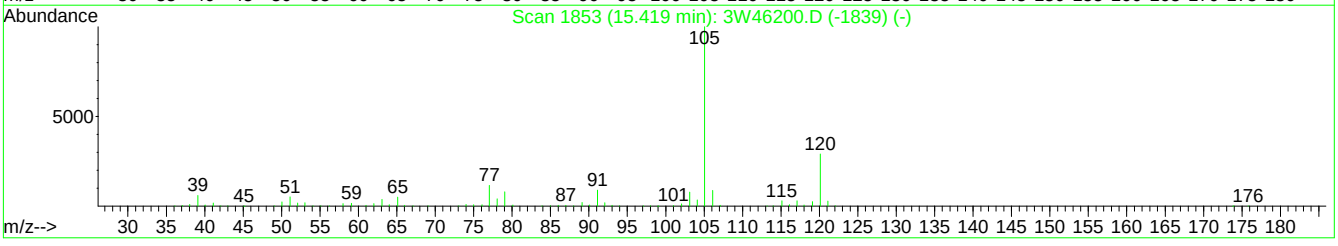
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W46975.D Vial: 3
Acq On : 14 Apr 2015 10:36 pm Operator: YOUMINH
Sample : IC1782-0.04 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 16 11:17 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 16 11:17:49 2015
Response via : Multiple Level Calibration







TIC: 3W46975.D

(93) 4-ETHYLTOLUENE

15.41min 0.03PPBV m

response 1561

Ion	Exp%	Act%
105.00	100	100
120.00	29.50	40.81
119.00	2.40	14.09
0.00	0.00	0.00

3W46975.D M3W1782.M Thu Apr 16 11:17:57 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46976.D Vial: 1
Acq On : 14 Apr 2015 11:17 pm Operator: YOUMINH
Sample : IC1782-30 Inst : MS3W
Misc : MS83225,V3W1782,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 09:49:08 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 09:47:29 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.18	128	117076	10.00	PPBV	0.01
52) 1,4-DIFLUOROBENZENE	8.75	114	534251	10.00	PPBV	0.00
71) CHLOROBENZENE-D5	12.89	82	290034	10.00	PPBV	0.01
System Monitoring Compounds						
86) 4-BROMOFLUOROBENZENE	14.52	95	328814	9.43	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 94.30%			
Target Compounds						Qvalue
4) FREON 152A	4.23	65	290356	27.98	PPBV	99
5) CHLORODIFLUOROMETHANE	4.25	67	111414	27.59	PPBV	98
6) DICHLORODIFLUOROMETHANE	4.31	85	1094427	27.18	PPBV	100
7) PROPYLENE	4.27	41	371003	27.83	PPBV	98
9) FREON 114	4.45	85	1129460	27.24	PPBV	99
10) CHLOROMETHANE	4.41	50	510159	27.64	PPBV	100
11) VINYL CHLORIDE	4.52	62	496472	27.76	PPBV	99
12) 1,3-BUTADIENE	4.58	54	368236	28.07	PPBV	99
13) n-BUTANE	4.61	43	700711	27.51	PPBV	100
14) BROMOMETHANE	4.74	94	426891	27.35	PPBV	99
15) CHLOROETHANE	4.83	64	259532	27.75	PPBV	99
16) DICHLOROFLUOROMETHANE	4.87	67	966079	27.23	PPBV	100
17) ACETONITRILE	5.05	41	348115	30.84	PPBV	98
18) FREON 123	5.08	83	1023368	27.69	PPBV	99
19) FREON 123A	5.11	117	557564	28.18	PPBV	98
20) TRICHLOROFLUOROMETHANE	5.24	101	1047709	27.57	PPBV	100
22) ISOPROPYL ALCOHOL	5.30	45	620322	22.03	PPBV	100
23) ACETONE	5.15	58	208016	30.24	PPBV	100
24) PENTANE	5.40	42	498893	27.95	PPBV	99
25) TVHC as EQUIV PENTANE	5.40	TIC	2780947m	28.83	PPBV	
26) IODOMETHANE	5.58	142	1069773	27.47	PPBV	99
27) 1,1-DICHLOROETHYLENE	5.61	96	405238	27.37	PPBV	97
28) CARBON DISULFIDE	5.87	76	1242154	28.00	PPBV	98
29) ETHANOL	4.91	45	139526	21.87	PPBV	98
30) BROMOETHENE	5.02	106	422947	27.69	PPBV	100
31) ACRYLONITRILE	5.44	52	272940	30.43	PPBV	99
32) METHYLENE CHLORIDE	5.70	84	369003	28.20	PPBV	95
33) 3-CHLOROPROPENE	5.75	76	205597	28.56	PPBV	99
34) FREON 113	5.83	151	633845	27.67	PPBV	99
35) TRANS-1,2-DICHLOROETHYLENE	6.26	96	422016	27.97	PPBV	97
36) TERTIARY BUTYL ALCOHOL	5.64	59	802274	22.36	PPBV	100
37) METHYL TERTIARY BUTYL ETHE	6.42	73	1187765	29.55	PPBV	99
38) TETRAHYDROFURAN	7.55	72	217119	31.37	PPBV	96
39) HEXANE	7.10	57	699005	28.46	PPBV	99
40) VINYL ACETATE	6.52	86	94859	31.84	PPBV	99
41) 1,1-DICHLOROETHANE	6.41	63	808667	28.45	PPBV	99
42) METHYL ETHYL KETONE	6.69	72	215483	31.43	PPBV #	92
43) cis-1,2-DICHLOROETHYLENE	7.06	96	446320	29.08	PPBV	100
44) DIISOPROPYL ETHER	7.11	59	178904	30.03	PPBV #	94
45) ETHYL ACETATE	7.18	61	168694	30.81	PPBV	97
46) METHYL ACRYLATE	7.19	55	749265	31.63	PPBV	98
47) CHLOROFORM	7.26	83	877182	28.78	PPBV	100
48) 2,4-DIMETHYLPENTANE	7.78	57	834867	28.44	PPBV	100
49) 1,1,1-TRICHLOROETHANE	8.03	97	841176	28.46	PPBV	99
50) CARBON TETRACHLORIDE	8.56	117	888579	28.17	PPBV	99
51) 1,2-DICHLOROETHANE	7.83	62	540176	30.24	PPBV	100
53) BENZENE	8.43	78	1325278	28.66	PPBV	100
54) CYCLOHEXANE	8.60	84	721958	27.58	PPBV	99
55) 2,3-DIMETHYLPENTANE	8.78	71	309144	28.60	PPBV	94

(#) = qualifier out of range (m) = manual integration
3W46976.D M3W1782.M Thu Apr 16 11:22:56 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46976.D Vial: 1
Acq On : 14 Apr 2015 11:17 pm Operator: YOUMINH
Sample : IC1782-30 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 09:49:08 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 09:47:29 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

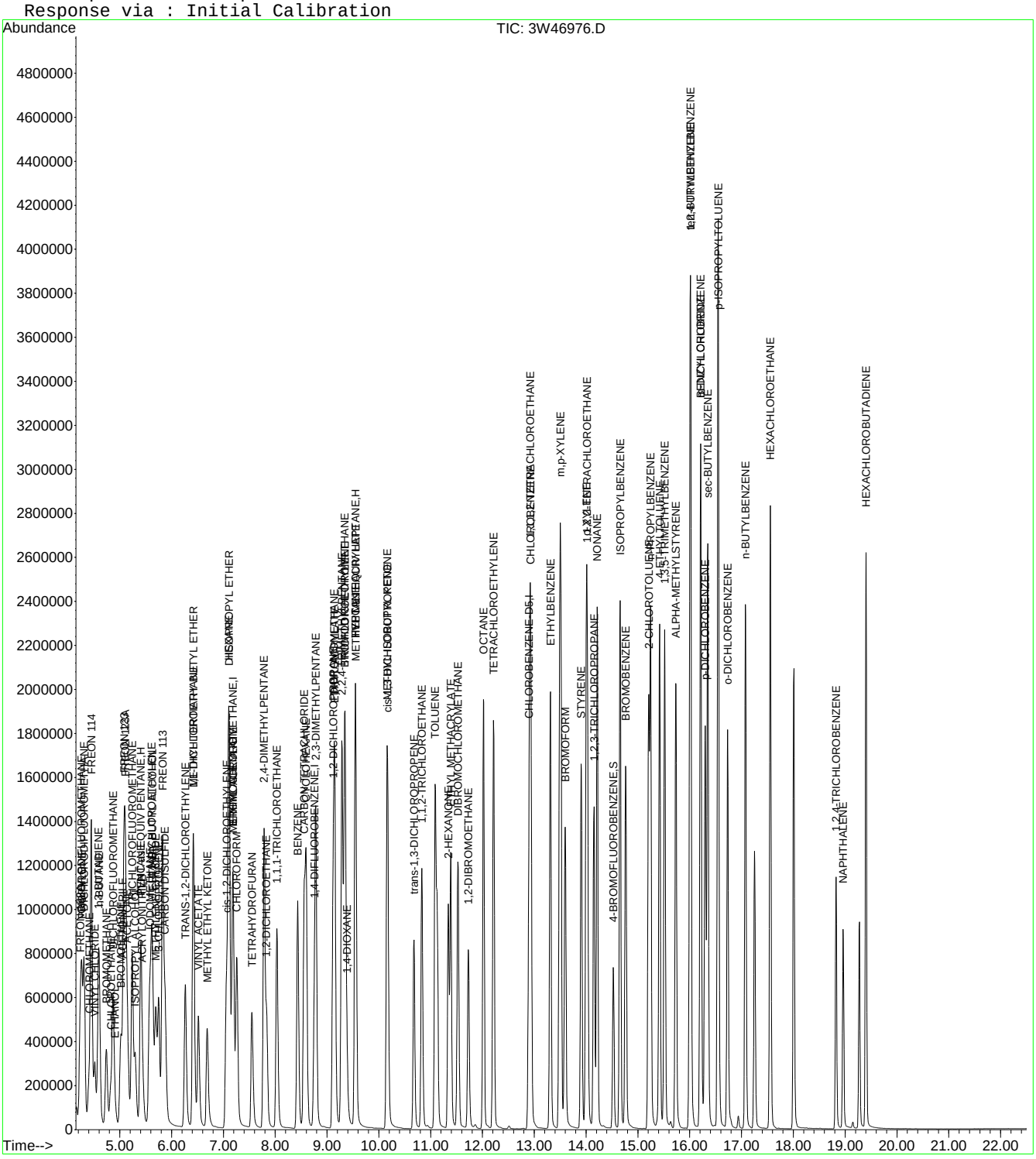
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
56)	TRICHLOROETHYLENE	9.35	95	575659	29.16	PPBV		99
57)	1,2-DICHLOROPROPANE	9.12	63	517164	29.13	PPBV		98
58)	DIBROMOMETHANE	9.15	174	512626	29.54	PPBV		98
59)	ETHYL ACRYLATE	9.15	55	981199	31.46	PPBV		100
60)	BROMODICHLOROMETHANE	9.33	83	952116	29.63	PPBV		100
61)	2,2,4-TRIMETHYLPENTANE	9.29	57	2115858	27.89	PPBV		99
62)	1,4-DIOXANE	9.39	88	236850	23.05	PPBV		99
63)	HEPTANE	9.54	43	820031	29.07	PPBV		98
64)	TVHC as EQUIV HEPTANE	9.55	TIC	5556329m	29.87	PPBV		
65)	METHYL METHACRYLATE	9.56	69	482966	31.00	PPBV		94
66)	METHYL ISOBUTYL KETONE	10.16	58	427409	31.21	PPBV		98
67)	cis-1,3-DICHLOROPROPENE	10.17	75	761725	31.43	PPBV		98
68)	TOLUENE	11.09	92	911528	30.04	PPBV		98
69)	trans-1,3-DICHLOROPROPENE	10.68	75	665982	32.69	PPBV		99
70)	1,1,2-TRICHLOROETHANE	10.83	83	466443	30.24	PPBV		100
72)	2-HEXANONE	11.34	58	572795	29.15	PPBV		98
73)	ETHYL METHACRYLATE	11.39	69	818808	28.87	PPBV		97
74)	TETRACHLOROETHYLENE	12.21	164	587241	27.49	PPBV		99
75)	DIBROMOCHLOROMETHANE	11.52	129	926136	27.56	PPBV		99
76)	1,2-DIBROMOETHANE	11.73	107	784953	29.38	PPBV		100
77)	OCTANE	12.02	43	1084203	26.54	PPBV		98
78)	1,1,1,2-TETRACHLOROETHANE	12.91	131	656748	26.64	PPBV		98
79)	CHLOROBENZENE	12.94	112	1148551	28.53	PPBV		100
80)	ETHYLBENZENE	13.31	91	1907339	26.97	PPBV		98
81)	m,p-XYLENE	13.50	106	1458521	54.44	PPBV		96
82)	o-XYLENE	14.00	106	720760	27.52	PPBV		99
83)	STYRENE	13.90	104	1106081	29.23	PPBV		99
84)	NONANE	14.21	43	1076632	27.14	PPBV		98
85)	BROMOFORM	13.60	173	939009	28.77	PPBV		99
87)	1,1,2,2-TETRACHLOROETHANE	14.03	83	1117199	27.15	PPBV		99
88)	1,2,3-TRICHLOROPROPANE	14.15	75	850710	28.20	PPBV		99
89)	ISOPROPYLBENZENE	14.66	105	2057510	26.37	PPBV		97
90)	BROMOBENZENE	14.76	77	1013646	29.26	PPBV		100
91)	2-CHLOROTOLUENE	15.21	126	526820	28.45	PPBV		99
92)	n-PROPYLBENZENE	15.24	120	567773	28.47	PPBV		99
93)	4-ETHYLTOLUENE	15.42	105	1939133	27.38	PPBV		98
94)	1,3,5-TRIMETHYLBENZENE	15.52	105	1681168	27.29	PPBV		99
95)	ALPHA-METHYLSTYRENE	15.73	118	848058	29.40	PPBV		99
96)	tert-BUTYLBENZENE	16.01	134	375662	27.17	PPBV		93
97)	1,2,4-TRIMETHYLBENZENE	16.02	105	1593315	26.85	PPBV		98
98)	m-DICHLOROBENZENE	16.21	146	1025304	29.46	PPBV		98
99)	BENZYL CHLORIDE	16.22	91	1380814	30.88	PPBV		98
100)	p-DICHLOROBENZENE	16.30	146	1024162	30.13	PPBV		99
101)	sec-BUTYLBENZENE	16.35	134	473818	28.51	PPBV	#	87
102)	p-ISOPROPYLTOLUENE	16.55	134	490071	27.92	PPBV	#	89
103)	o-DICHLOROBENZENE	16.73	146	991637	29.21	PPBV		99
104)	n-BUTYLBENZENE	17.08	134	446224	30.43	PPBV	#	90
105)	HEXACHLOROETHANE	17.55	117	726704	27.46	PPBV		99
106)	HEXACHLOROBUTADIENE	19.40	225	588544	28.84	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.83	180	451142	37.70	PPBV		99
108)	NAPHTHALENE	18.96	128	861506	39.15	PPBV		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46976.D
Vial: 1
Acq On : 14 Apr 2015 11:17 pm
Operator: YOUMINH
Sample : IC1782-30
Inst : MS3W
Misc : MS83225,V3W1782,,,,,1
Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 9:58 2015
Quant Results File: M3W1782.RES

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Initial Calibration

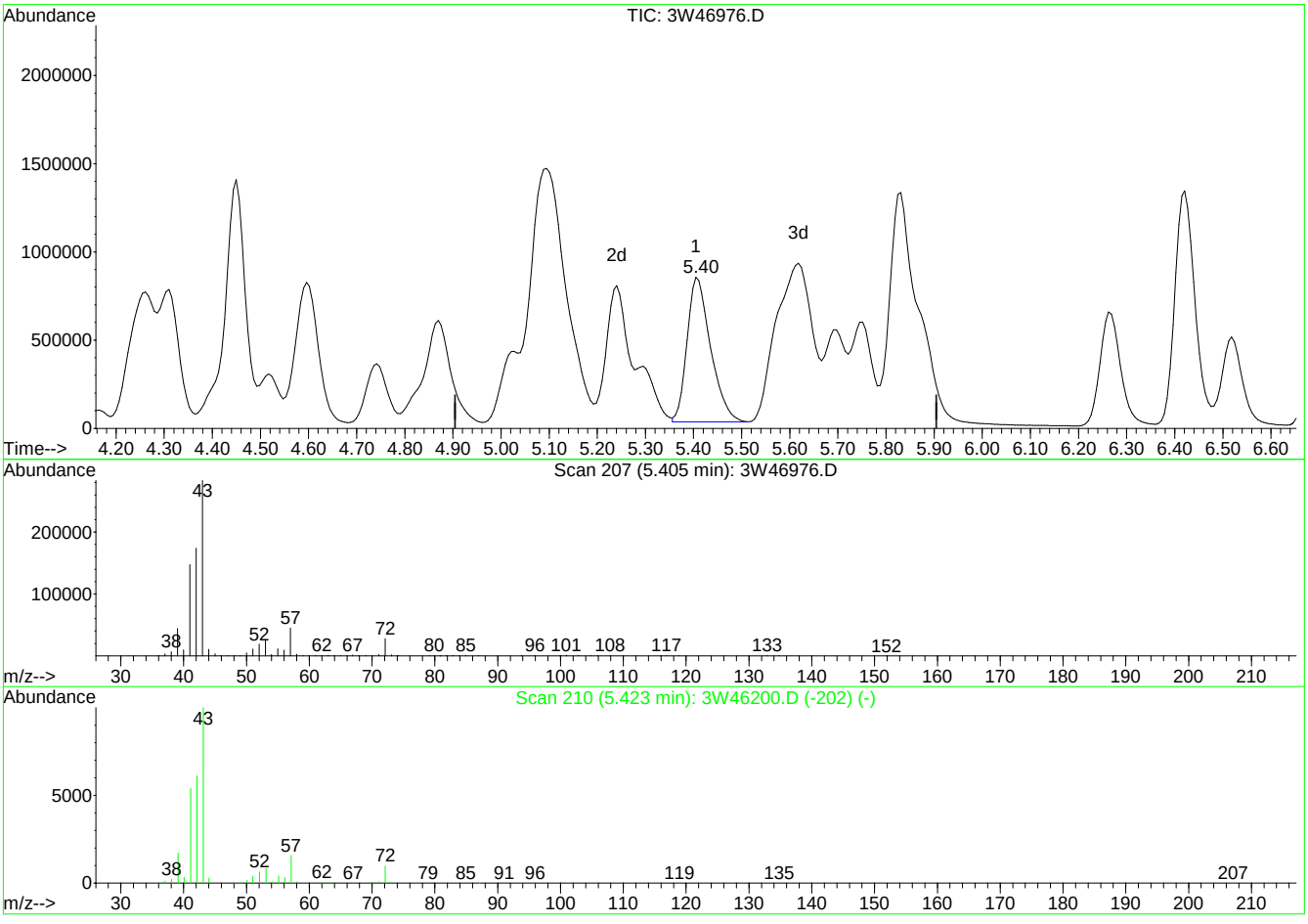


ACCUTEST LABORATORIES JB94203

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W46976.D Vial: 1
Acq On : 14 Apr 2015 11:17 pm Operator: YOUMINH
Sample : IC1782-30 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 9:58 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 10:07:57 2015
Response via : Multiple Level Calibration



TIC: 3W46976.D

(25) TVHC as EQUIV PENTANE (H)

5.40min 28.83PPBV m

response 2780947

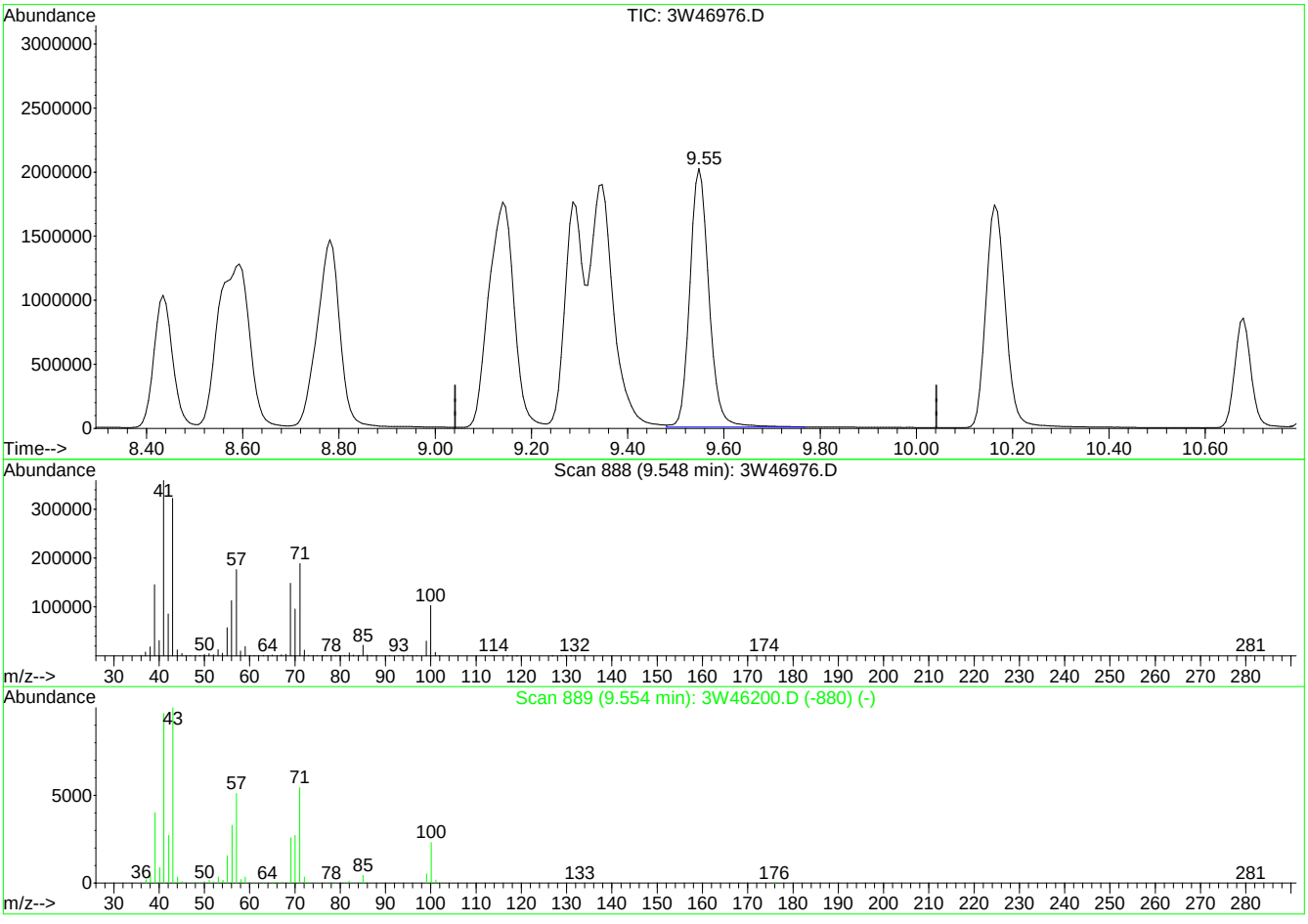
Signal	Exp%	Act%
TIC	100	100
0.00	2.50	4.02#
0.00	2.20	3.50#
0.00	0.00	0.00

3W46976.D M3W1782.M Wed Apr 15 11:02:36 2015 MS3W

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W46976.D Vial: 1
Acq On : 14 Apr 2015 11:17 pm Operator: YOUMINH
Sample : IC1782-30 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 9:58 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 10:07:57 2015
Response via : Multiple Level Calibration



TIC: 3W46976.D

(64) TVHC as EQUIV HEPTANE (H)

9.55min 29.87PPBV m

response 5556329

Signal	Exp%	Act%
TIC	100	100
0.00	1.30	2.01#
0.00	1.20	1.75#
0.00	0.00	0.00

3W46976.D M3W1782.M Wed Apr 15 11:09:02 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46978.D Vial: 1
Acq On : 15 Apr 2015 12:38 am Operator: YOUMINH
Sample : IC1782-40 Inst : MS3W
Misc : MS83225,V3W1782,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 09:49:13 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 09:47:29 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.18	128	126923	10.00	PPBV	0.01
52) 1,4-DIFLUOROBENZENE	8.75	114	572015	10.00	PPBV	0.00
71) CHLOROBENZENE-D5	12.89	82	310642	10.00	PPBV	0.01

System Monitoring Compounds

86) 4-BROMOFLUOROBENZENE	14.53	95	344315	9.22	PPBV	0.01

Spiked Amount 10.000 Range 65 - 128 Recovery = 92.20%

Target Compounds						Qvalue
4) FREON 152A	4.23	65	399414	35.50	PPBV	98
5) CHLORODIFLUOROMETHANE	4.25	67	151706	34.66	PPBV	100
6) DICHLORODIFLUOROMETHANE	4.31	85	1485684	34.04	PPBV	99
7) PROPYLENE	4.27	41	495962	34.32	PPBV	98
9) FREON 114	4.44	85	1521172	33.84	PPBV	97
10) CHLOROMETHANE	4.40	50	696462	34.81	PPBV	100
11) VINYL CHLORIDE	4.52	62	689889	35.59	PPBV	99
12) 1,3-BUTADIENE	4.58	54	497257	34.96	PPBV	96
13) n-BUTANE	4.60	43	921211	33.36	PPBV	99
14) BROMOMETHANE	4.74	94	595014	35.16	PPBV	99
15) CHLOROETHANE	4.82	64	356412	35.15	PPBV	98
16) DICHLOROFLUOROMETHANE	4.86	67	1290721	33.56	PPBV	99
17) ACETONITRILE	5.04	41	451395	36.89	PPBV	98
18) FREON 123	5.08	83	1348268	33.65	PPBV	99
19) FREON 123A	5.11	117	756703	35.28	PPBV	93
20) TRICHLOROFLUOROMETHANE	5.23	101	1372008	33.31	PPBV	99
22) ISOPROPYL ALCOHOL	5.30	45	767043	25.13	PPBV	100
23) ACETONE	5.15	58	278329	37.32	PPBV	95
24) PENTANE	5.40	42	641859	33.17	PPBV	99
25) TVHC as EQUIV PENTANE	5.40	TIC	3645526m	34.86	PPBV	
26) IODOMETHANE	5.57	142	1487785	35.24	PPBV	100
27) 1,1-DICHLOROETHYLENE	5.61	96	560830	34.93	PPBV	98
28) CARBON DISULFIDE	5.87	76	1701476	35.37	PPBV	97
29) ETHANOL	4.91	45	175540	25.38	PPBV	100
30) BROMOETHENE	5.02	106	591943	35.75	PPBV	100
31) ACRYLONITRILE	5.44	52	372007	38.26	PPBV	99
32) METHYLENE CHLORIDE	5.69	84	516615	36.42	PPBV	93
33) 3-CHLOROPROPENE	5.75	76	289299	37.06	PPBV	93
34) FREON 113	5.82	151	885672	35.66	PPBV	97
35) TRANS-1,2-DICHLOROETHYLENE	6.26	96	605147	36.99	PPBV	99
36) TERTIARY BUTYL ALCOHOL	5.64	59	1005950	25.87	PPBV	99
37) METHYL TERTIARY BUTYL ETHE	6.42	73	1643407	37.71	PPBV	99
38) TETRAHYDROFURAN	7.55	72	306454	40.84	PPBV	94
39) HEXANE	7.10	57	956271	35.91	PPBV	97
40) VINYL ACETATE	6.52	86	138562	42.91	PPBV #	88
41) 1,1-DICHLOROETHANE	6.41	63	1112063	36.09	PPBV	98
42) METHYL ETHYL KETONE	6.68	72	310559	41.78	PPBV #	86
43) cis-1,2-DICHLOROETHYLENE	7.06	96	629405	37.82	PPBV	99
44) DIISOPROPYL ETHER	7.11	59	247066	38.26	PPBV #	87
45) ETHYL ACETATE	7.18	61	232561	39.18	PPBV	94
46) METHYL ACRYLATE	7.19	55	1043531	40.64	PPBV	97
47) CHLOROFORM	7.26	83	1220175	36.93	PPBV	100
48) 2,4-DIMETHYLPENTANE	7.78	57	1146802	36.03	PPBV	99
49) 1,1,1-TRICHLOROETHANE	8.03	97	1167476	36.43	PPBV	99
50) CARBON TETRACHLORIDE	8.56	117	1219649	35.66	PPBV	99
51) 1,2-DICHLOROETHANE	7.83	62	749807	38.71	PPBV	99
53) BENZENE	8.43	78	1843535	37.24	PPBV	99
54) CYCLOHEXANE	8.60	84	997627	35.59	PPBV	99
55) 2,3-DIMETHYLPENTANE	8.78	71	432312	37.36	PPBV #	90

(#) = qualifier out of range (m) = manual integration
3W46978.D M3W1782.M Thu Apr 16 11:22:58 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46978.D Vial: 1
Acq On : 15 Apr 2015 12:38 am Operator: YOUMINH
Sample : IC1782-40 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 09:49:13 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 09:47:29 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

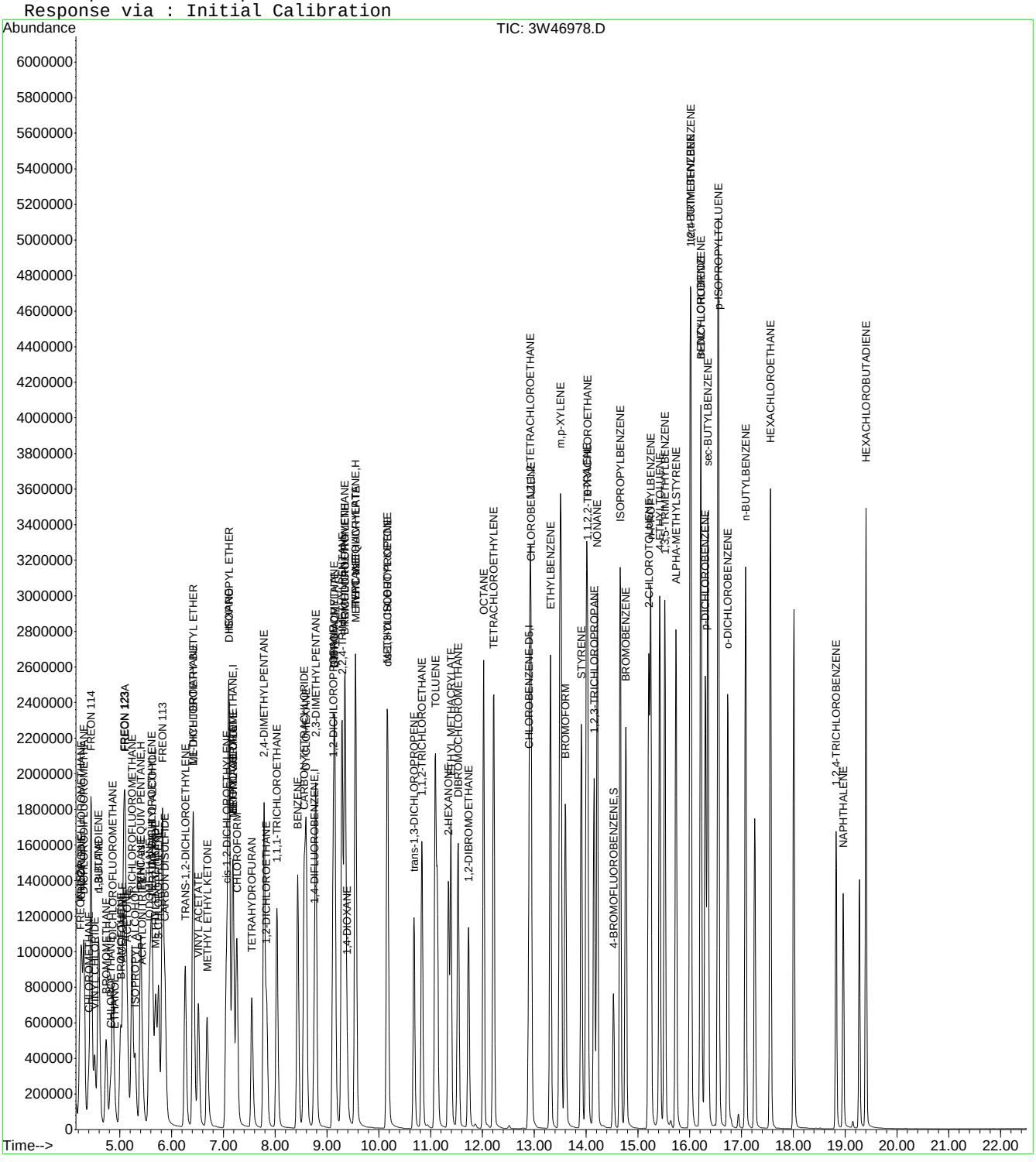
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
56)	TRICHLOROETHYLENE	9.35	95	787894	37.28	PPBV		98
57)	1,2-DICHLOROPROPANE	9.12	63	717892	37.77	PPBV		99
58)	DIBROMOMETHANE	9.15	174	712840	38.37	PPBV		100
59)	ETHYL ACRYLATE	9.15	55	1329876	39.83	PPBV		99
60)	BROMODICHLOROMETHANE	9.33	83	1280019	37.21	PPBV		100
61)	2,2,4-TRIMETHYLPENTANE	9.29	57	2851400	35.10	PPBV		99
62)	1,4-DIOXANE	9.39	88	320450	29.13	PPBV		98
63)	HEPTANE	9.54	43	1086855	35.98	PPBV		96
64)	TVHC as EQUIV HEPTANE	9.55	TIC	7500314m	37.66	PPBV		
65)	METHYL METHACRYLATE	9.56	69	663612	39.78	PPBV		91
66)	METHYL ISOBUTYL KETONE	10.16	58	587861	40.09	PPBV		95
67)	cis-1,3-DICHLOROPROPENE	10.17	75	1057652	40.76	PPBV		97
68)	TOLUENE	11.09	92	1259536	38.77	PPBV		96
69)	trans-1,3-DICHLOROPROPENE	10.68	75	936184	42.92	PPBV		98
70)	1,1,2-TRICHLOROETHANE	10.83	83	646754	39.16	PPBV		99
72)	2-HEXANONE	11.34	58	805789	38.29	PPBV		96
73)	ETHYL METHACRYLATE	11.39	69	1131402	37.25	PPBV		94
74)	TETRACHLOROETHYLENE	12.22	164	802173	35.06	PPBV		98
75)	DIBROMOCHLOROMETHANE	11.53	129	1271308	35.32	PPBV		99
76)	1,2-DIBROMOETHANE	11.73	107	1094192	38.24	PPBV		100
77)	OCTANE	12.02	43	1429600	32.68	PPBV		96
78)	1,1,1,2-TETRACHLOROETHANE	12.92	131	875684	33.16	PPBV		98
79)	CHLOROBENZENE	12.94	112	1558994	36.15	PPBV		99
80)	ETHYLBENZENE	13.31	91	2577061	34.03	PPBV		97
81)	m,p-XYLENE	13.51	106	1951102	67.99	PPBV		94
82)	o-XYLENE	14.01	106	975183	34.76	PPBV		96
83)	STYRENE	13.91	104	1540166	38.00	PPBV		99
84)	NONANE	14.21	43	1418676	33.39	PPBV		97
85)	BROMOFORM	13.60	173	1287260	36.83	PPBV		98
87)	1,1,2,2-TETRACHLOROETHANE	14.03	83	1473439	33.43	PPBV		99
88)	1,2,3-TRICHLOROPROPANE	14.15	75	1170971	36.24	PPBV		98
89)	ISOPROPYLBENZENE	14.66	105	2722032	32.57	PPBV		96
90)	BROMOBENZENE	14.77	77	1389484	37.45	PPBV		99
91)	2-CHLOROTOLUENE	15.21	126	727896	36.70	PPBV		99
92)	n-PROPYLBENZENE	15.25	120	777922	36.42	PPBV		99
93)	4-ETHYLTOLUENE	15.42	105	2606171	34.36	PPBV		96
94)	1,3,5-TRIMETHYLBENZENE	15.52	105	2254094	34.16	PPBV		98
95)	ALPHA-METHYLSTYRENE	15.73	118	1166986	37.78	PPBV		99
96)	tert-BUTYLBENZENE	16.01	134	499735	33.75	PPBV	#	89
97)	1,2,4-TRIMETHYLBENZENE	16.03	105	2075794	32.66	PPBV		98
98)	m-DICHLOROBENZENE	16.21	146	1382769	37.09	PPBV		98
99)	BENZYL CHLORIDE	16.22	91	1859449	38.82	PPBV		97
100)	p-DICHLOROBENZENE	16.30	146	1415370	38.88	PPBV		98
101)	sec-BUTYLBENZENE	16.35	134	644951	36.23	PPBV	#	81
102)	p-ISOPROPYLTOLUENE	16.56	134	644372	34.28	PPBV	#	85
103)	o-DICHLOROBENZENE	16.73	146	1353433	37.22	PPBV		97
104)	n-BUTYLBENZENE	17.08	134	620764	39.53	PPBV	#	83
105)	HEXACHLOROETHANE	17.55	117	968377	34.16	PPBV		99
106)	HEXACHLOROBUTADIENE	19.40	225	791405	36.21	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.83	180	658468	51.38	PPBV		99
108)	NAPHTHALENE	18.97	128	1273333	54.02	PPBV		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46978.D
Vial: 1
Acq On : 15 Apr 2015 12:38 am
Operator: YOUMINH
Sample : IC1782-40
Inst : MS3W
Misc : MS83225,V3W1782,,,,,1
Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 9:59 2015
Quant Results File: M3W1782.RES

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Initial Calibration

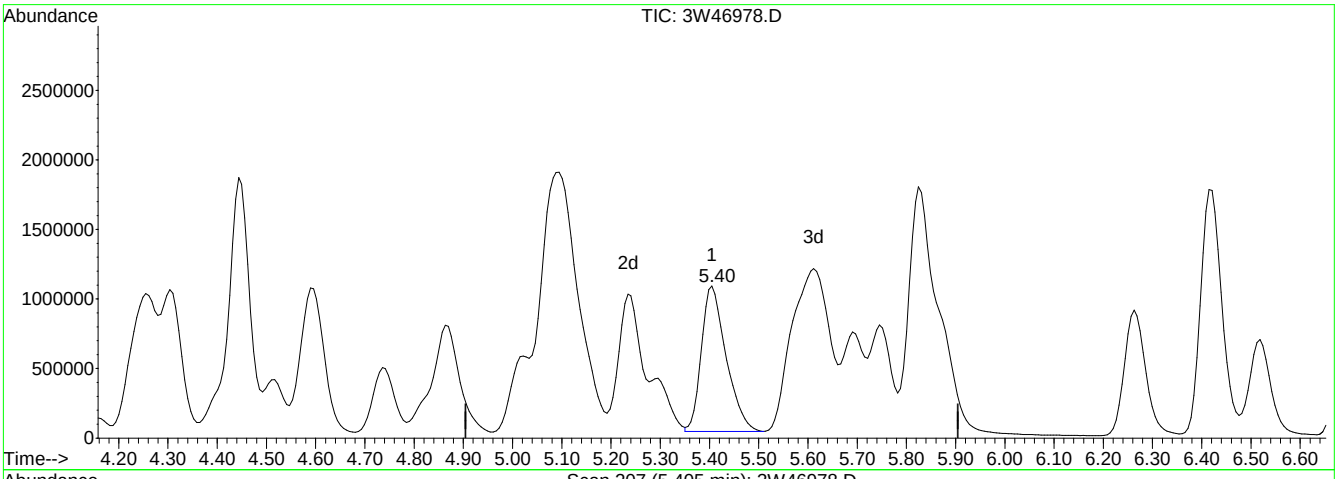


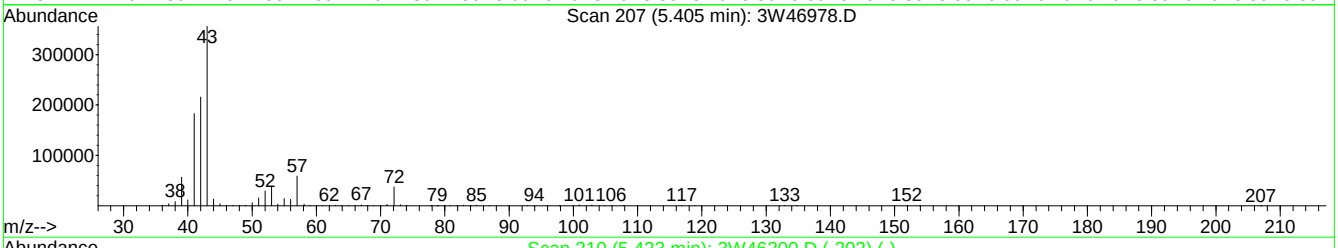
ACCUTEST LABORATORIES JB94203

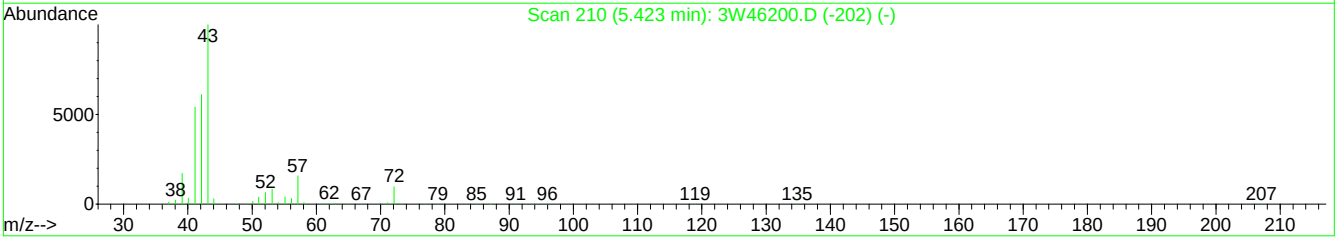
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W46978.D Vial: 1
Acq On : 15 Apr 2015 12:38 am Operator: YOUMINH
Sample : IC1782-40 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 9:59 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 10:07:57 2015
Response via : Multiple Level Calibration







TIC: 3W46978.D

(25) TVHC as EQUIV PENTANE (H)

5.40min 34.86PPBV m

response 3645526

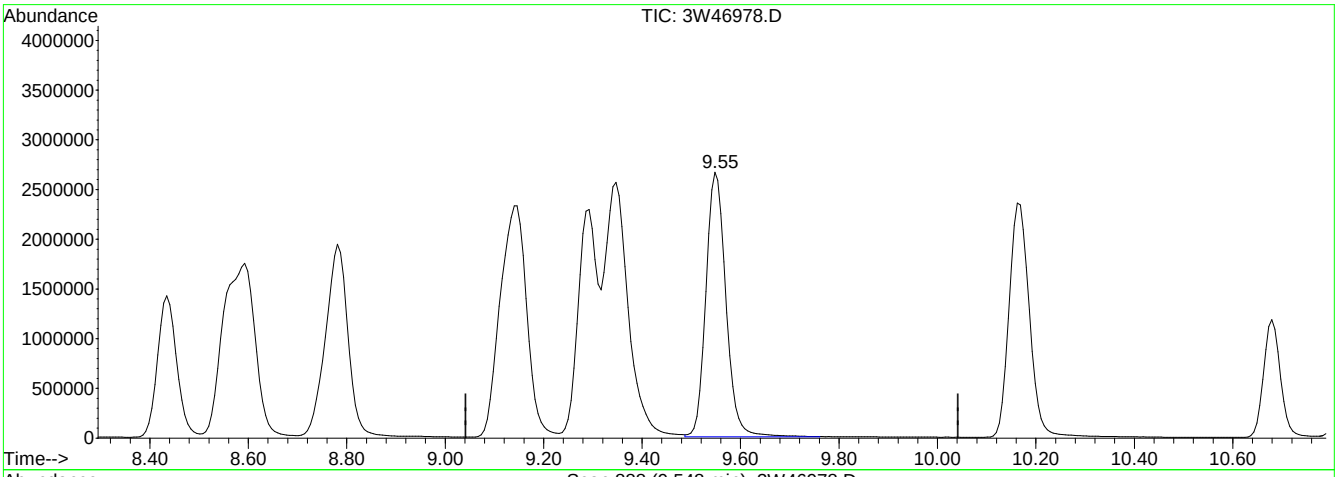
Signal	Exp%	Act%
TIC	100	100
0.00	2.50	4.52#
0.00	2.20	3.96#
0.00	0.00	0.00

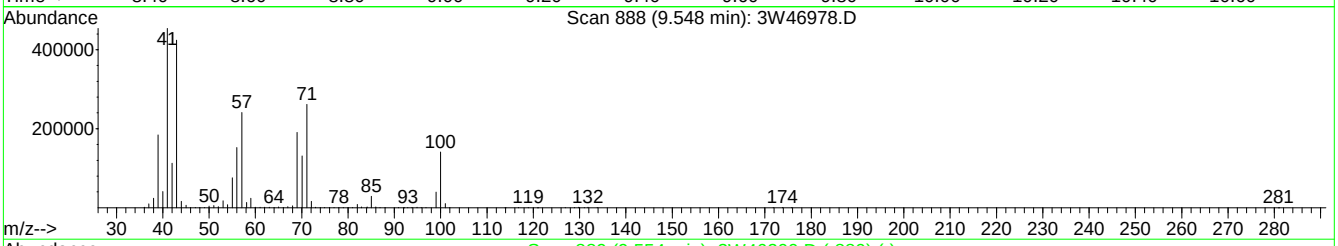
3W46978.D M3W1782.M Wed Apr 15 11:02:41 2015 MS3W

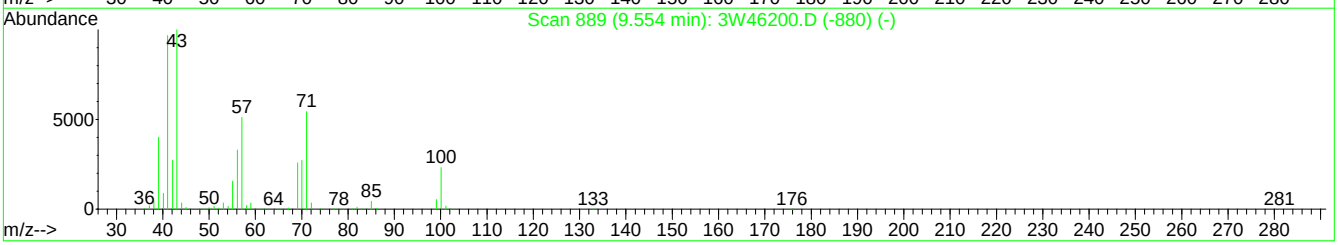
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W46978.D Vial: 1
Acq On : 15 Apr 2015 12:38 am Operator: YOUMINH
Sample : IC1782-40 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 15 9:59 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 10:07:57 2015
Response via : Multiple Level Calibration







TIC: 3W46978.D

(64) TVHC as EQUIV HEPTANE (H)

9.55min 37.66PPBV m

response 7500314

Signal	Exp%	Act%
TIC	100	100
0.00	1.30	2.20#
0.00	1.20	1.93#
0.00	0.00	0.00

3W46978.D M3W1782.M Wed Apr 15 11:09:07 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46980.D Vial: 4
Acq On : 15 Apr 2015 1:57 am Operator: YOUMINH
Sample : ICV1782-10 Inst : MS3W
Misc : MS83225,V3W1782,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 16 15:40:07 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 16 11:17:49 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.16	128	128846	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	8.74	114	575193	10.00	PPBV	0.00
71) CHLOROBENZENE-D5	12.89	82	277712	10.00	PPBV	0.00

System Monitoring Compounds

86) 4-BROMOFLUOROBENZENE	14.52	95	337114	10.85	PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 108.50%

Target Compounds						Qvalue
4) FREON 152A	4.23	65	109732	9.64	PPBV	99
5) CHLORODIFLUOROMETHANE	4.25	67	42516	9.67	PPBV	98
6) DICHLORODIFLUOROMETHANE	4.31	85	423294	9.38	PPBV	100
7) PROPYLENE	4.27	41	137668	9.31	PPBV	99
9) FREON 114	4.44	85	439507	9.44	PPBV	98
10) CHLOROMETHANE	4.40	50	188908	9.13	PPBV	98
11) VINYL CHLORIDE	4.52	62	188771	9.59	PPBV	100
12) 1,3-BUTADIENE	4.58	54	136836	9.77	PPBV	98
13) n-BUTANE	4.60	43	266203	9.37	PPBV	99
14) BROMOMETHANE	4.74	94	166744	9.72	PPBV	100
15) CHLOROETHANE	4.82	64	95299	9.42	PPBV	98
16) DICHLOROFLUOROMETHANE	4.86	67	364780	9.21	PPBV	99
17) ACETONITRILE	5.04	41	120857	9.75	PPBV	99
18) FREON 123	5.07	83	400632	9.60	PPBV	99
19) FREON 123A	5.11	117	215422	9.62	PPBV	96
20) TRICHLOROFLUOROMETHANE	5.23	101	398608	9.39	PPBV	100
22) ISOPROPYL ALCOHOL	5.29	45	304383	10.42	PPBV	100
23) ACETONE	5.15	58	73529	9.10	PPBV	97
24) PENTANE	5.40	42	182066	8.95	PPBV	100
25) TVHC as EQUIV PENTANE	5.40	TIC	997094m	9.72	PPBV	
26) IODOMETHANE	5.57	142	428441	9.97	PPBV	97
27) 1,1-DICHLOROETHYLENE	5.61	96	157237	9.65	PPBV	97
28) CARBON DISULFIDE	5.87	76	480959	9.70	PPBV	97
29) ETHANOL	4.91	45	70150	10.35	PPBV	99
30) BROMOETHENE	5.01	106	167655	10.09	PPBV	99
31) ACRYLONITRILE	5.42	52	95985	10.60	PPBV	93
32) METHYLENE CHLORIDE	5.68	84	140931	9.65	PPBV	92
33) 3-CHLOROPROPENE	5.75	76	77291	10.04	PPBV	92
34) FREON 113	5.82	151	258217	10.26	PPBV	98
35) TRANS-1,2-DICHLOROETHYLENE	6.26	96	167752	10.34	PPBV	98
36) TERTIARY BUTYL ALCOHOL	5.63	59	380130	10.68	PPBV	98
37) METHYL TERTIARY BUTYL ETHE	6.41	73	450654	10.34	PPBV	98
38) TETRAHYDROFURAN	7.55	72	78745	10.64	PPBV	97
39) HEXANE	7.09	57	261549	9.83	PPBV	99
40) VINYL ACETATE	6.51	86	34564	11.17	PPBV #	91
41) 1,1-DICHLOROETHANE	6.41	63	312126	9.71	PPBV	99
42) METHYL ETHYL KETONE	6.68	72	77585	10.77	PPBV	94
43) cis-1,2-DICHLOROETHYLENE	7.05	96	171794	10.44	PPBV	98
44) DIISOPROPYL ETHER	7.10	59	65356	10.65	PPBV	97
45) ETHYL ACETATE	7.17	61	58144	9.82	PPBV	98
46) METHYL ACRYLATE	7.19	55	260633	10.70	PPBV	98
47) CHLOROFORM	7.25	83	337805	9.85	PPBV	100
48) 2,4-DIMETHYLPENTANE	7.78	57	316920	9.94	PPBV	100
49) 1,1,1-TRICHLOROETHANE	8.03	97	325878	9.88	PPBV	99
50) CARBON TETRACHLORIDE	8.55	117	343663	9.86	PPBV	100
51) 1,2-DICHLOROETHANE	7.83	62	199124	10.35	PPBV	99
53) BENZENE	8.43	78	504010	9.99	PPBV	100
54) CYCLOHEXANE	8.59	84	275010	9.75	PPBV	99
55) 2,3-DIMETHYLPENTANE	8.78	71	114987	9.35	PPBV	97

(#) = qualifier out of range (m) = manual integration
3W46980.D M3W1782.M Thu Apr 16 15:41:13 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46980.D Vial: 4
Acq On : 15 Apr 2015 1:57 am Operator: YOUMINH
Sample : ICV1782-10 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 16 15:40:07 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 16 11:17:49 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
56)	TRICHLOROETHYLENE	9.34	95	213449	9.67	PPBV	98
57)	1,2-DICHLOROPROPANE	9.11	63	189619	9.34	PPBV	99
58)	DIBROMOMETHANE	9.13	174	195035	10.49	PPBV	98
59)	ETHYL ACRYLATE	9.14	55	338867	10.70	PPBV	100
60)	BROMODICHLOROMETHANE	9.32	83	352501	10.08	PPBV	99
61)	2,2,4-TRIMETHYLPENTANE	9.28	57	797017	9.47	PPBV	100
62)	1,4-DIOXANE	9.38	88	115693	11.71	PPBV	98
63)	HEPTANE	9.54	43	298451	9.64	PPBV	99
64)	TVHC as EQUIV HEPTANE	9.54	TIC	2007047m	10.34	PPBV	
65)	METHYL METHACRYLATE	9.55	69	171994	10.57	PPBV	96
66)	METHYL ISOBUTYL KETONE	10.15	58	147995	10.44	PPBV	99
67)	cis-1,3-DICHLOROPROPENE	10.17	75	268436	10.74	PPBV	99
68)	TOLUENE	11.08	92	335124	9.87	PPBV	100
69)	trans-1,3-DICHLOROPROPENE	10.67	75	227447	11.21	PPBV	99
70)	1,1,2-TRICHLOROETHANE	10.83	83	169429	10.46	PPBV	99
72)	2-HEXANONE	11.34	58	192910	11.15	PPBV	99
73)	ETHYL METHACRYLATE	11.38	69	282494	11.16	PPBV	98
74)	TETRACHLOROETHYLENE	12.21	164	217444	9.81	PPBV	99
75)	DIBROMOCHLOROMETHANE	11.52	129	341236	10.67	PPBV	100
76)	1,2-DIBROMOETHANE	11.72	107	277150	11.00	PPBV	100
77)	OCTANE	12.01	43	393741	10.56	PPBV	99
78)	1,1,1,2-TETRACHLOROETHANE	12.91	131	245684	10.57	PPBV	100
79)	CHLOROBENZENE	12.93	112	417124	10.58	PPBV	99
80)	ETHYLBENZENE	13.31	91	720022	10.90	PPBV	100
81)	m,p-XYLENE	13.50	106	544072	21.94	PPBV	98
82)	o-XYLENE	13.99	106	266835	11.20	PPBV	99
83)	STYRENE	13.90	104	391337	12.17	PPBV	99
84)	NONANE	14.21	43	389869	11.34	PPBV	99
85)	BROMOFORM	13.59	173	340084	11.56	PPBV	100
87)	1,1,2,2-TETRACHLOROETHANE	14.02	83	413281	11.08	PPBV	100
88)	1,2,3-TRICHLOROPROPANE	14.14	75	307819	11.09	PPBV	99
89)	ISOPROPYLBENZENE	14.65	105	793308	11.18	PPBV	100
90)	BROMOBENZENE	14.76	77	357443	10.84	PPBV	99
91)	2-CHLOROTOLUENE	15.20	126	191564	11.59	PPBV	99
92)	n-PROPYLBENZENE	15.24	120	203287	11.33	PPBV	100
93)	4-ETHYLTOLUENE	15.41	105	718952	12.17	PPBV	100
94)	1,3,5-TRIMETHYLBENZENE	15.51	105	629817	11.61	PPBV	100
95)	ALPHA-METHYLSTYRENE	15.73	118	298456	12.06	PPBV	99
96)	tert-BUTYLBENZENE	16.00	134	139731	11.58	PPBV	100
97)	1,2,4-TRIMETHYLBENZENE	16.01	105	601873	12.05	PPBV	100
98)	m-DICHLOROBENZENE	16.20	146	360484	11.86	PPBV	100
99)	BENZYL CHLORIDE	16.20	91	460618	11.60	PPBV	100
100)	p-DICHLOROBENZENE	16.29	146	355077	11.52	PPBV	99
101)	sec-BUTYLBENZENE	16.34	134	168473	11.32	PPBV	99
102)	p-ISOPROPYLTOLUENE	16.54	134	183049	12.01	PPBV	96
103)	o-DICHLOROBENZENE	16.73	146	353210	11.72	PPBV	100
104)	n-BUTYLBENZENE	17.07	134	152046	12.01	PPBV	98
105)	HEXACHLOROETHANE	17.55	117	267871	10.63	PPBV	99
106)	HEXACHLOROBUTADIENE	19.40	225	215600	12.53	PPBV	99
107)	1,2,4-TRICHLOROBENZENE	18.82	180	132816	12.55	PPBV	100
108)	NAPHTHALENE	18.96	128	244549	11.49	PPBV	99

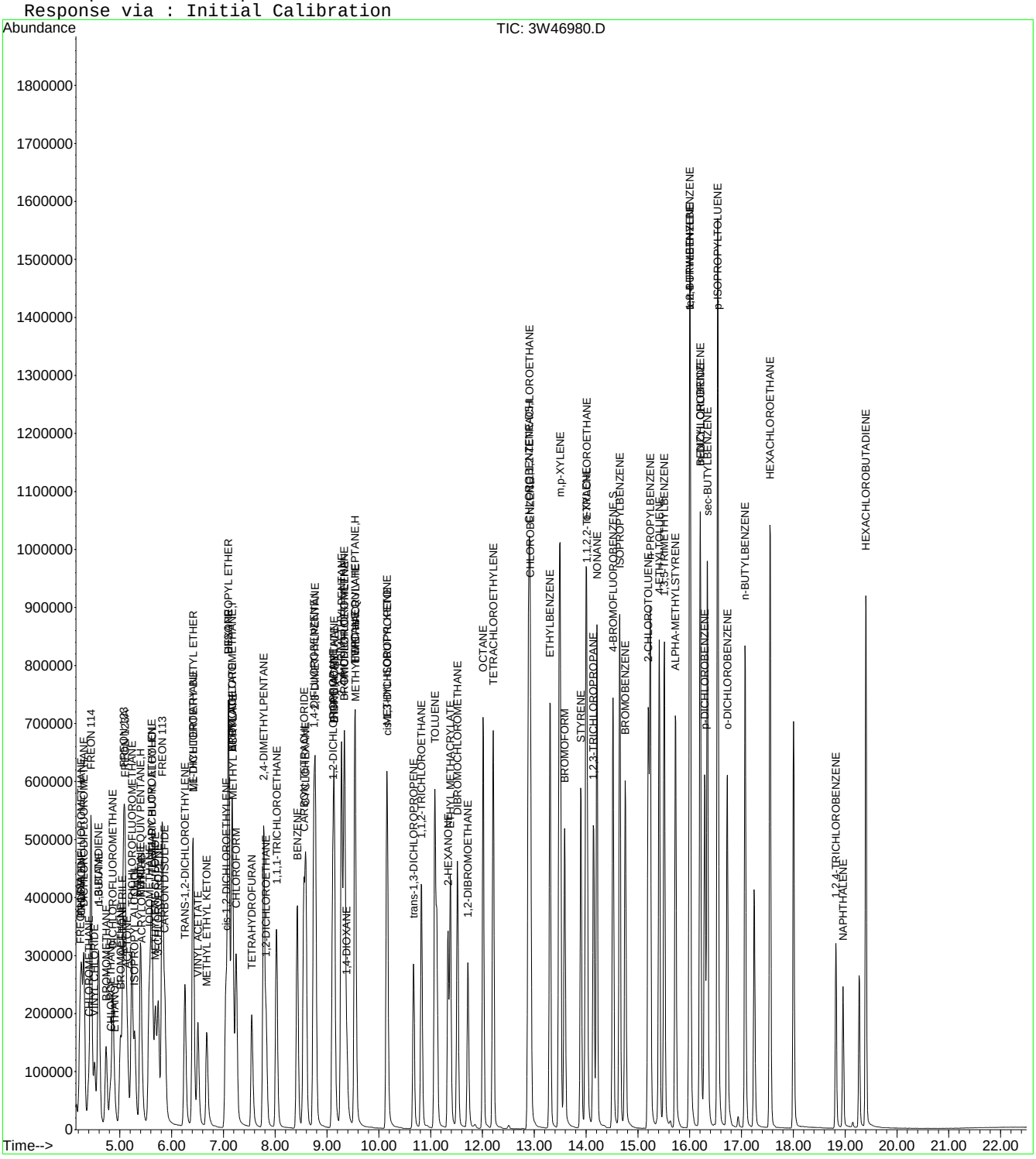
(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W46980.D M3W1782.M Thu Apr 16 15:41:13 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W46980.D
Acq On : 15 Apr 2015 1:57 am
Sample : ICV1782-10
Misc : MS83225,V3W1782,,,,,1
MS Integration Params: RTEINT1.P
Quant Time: Apr 16 15:40 2015

Vial: 4
Operator: YOUMINH
Inst : MS3W
Multiplr: 1.00
Quant Results File: M3W1782.RES

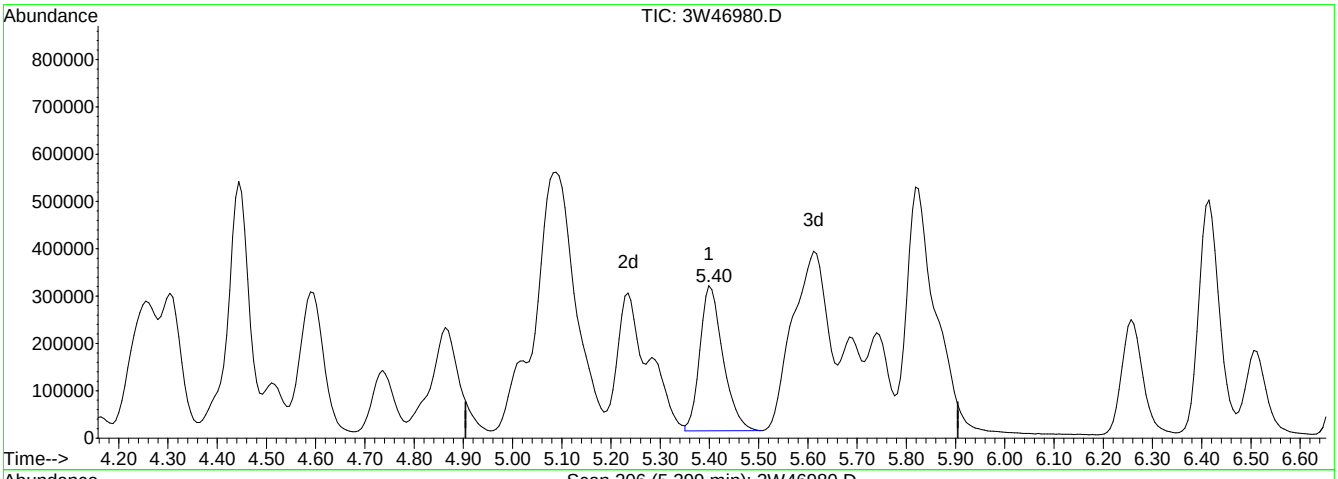
Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 16 11:17:49 2015
Response via : Initial Calibration

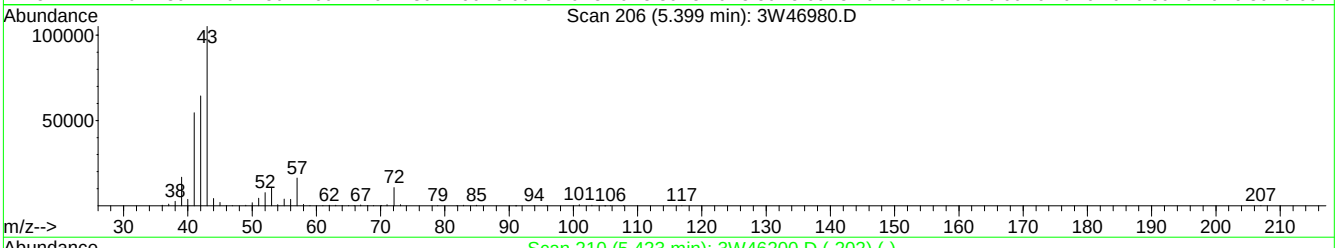


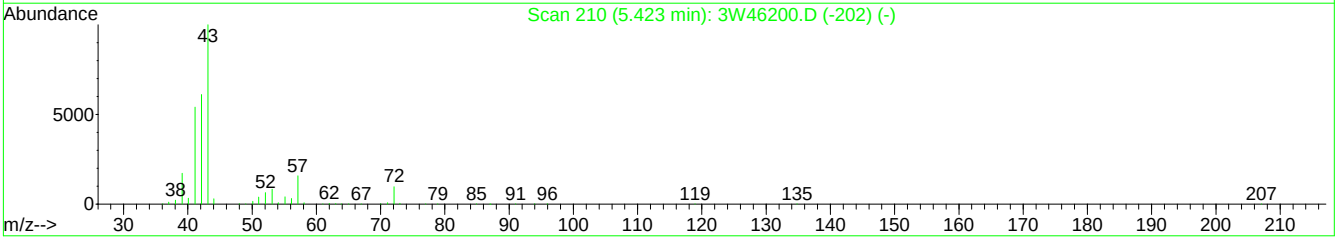
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W46980.D Vial: 4
Acq On : 15 Apr 2015 1:57 am Operator: YOUMINH
Sample : ICV1782-10 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 16 15:40 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 16 11:17:49 2015
Response via : Multiple Level Calibration







TIC: 3W46980.D

(25) TVHC as EQUIV PENTANE (H)

5.40min 9.72PPBV m

response 997094

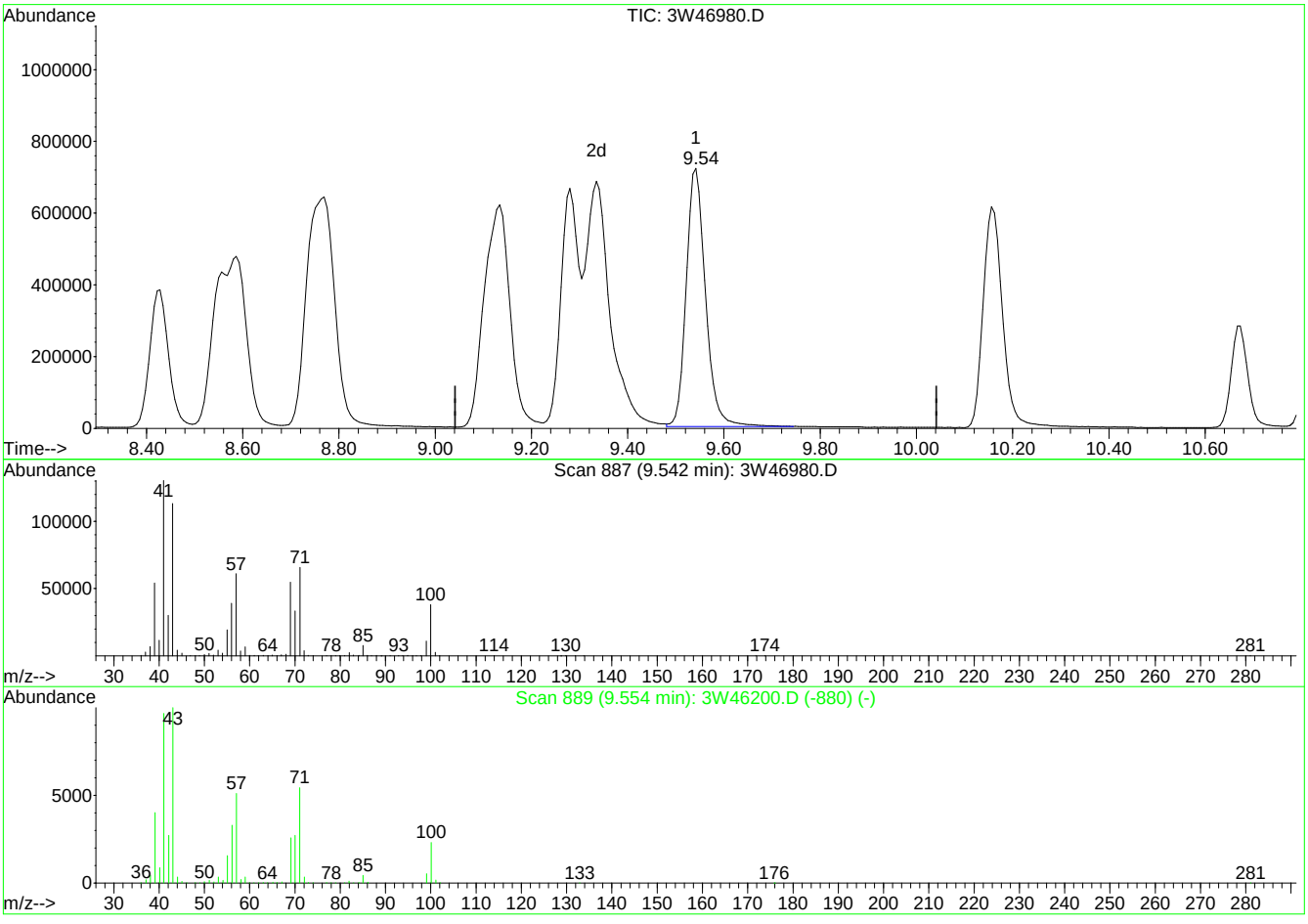
Signal	Exp%	Act%
TIC	100	100
0.00	2.50	3.02#
0.00	2.20	2.57#
0.00	0.00	0.00

3W46980.D M3W1782.M Thu Apr 16 15:41:56 2015 MS3W

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W46980.D Vial: 4
Acq On : 15 Apr 2015 1:57 am Operator: YOUMINH
Sample : ICV1782-10 Inst : MS3W
Misc : MS83225,V3W1782,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 16 15:40 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 16 11:17:49 2015
Response via : Multiple Level Calibration



TIC: 3W46980.D

(64) TVHC as EQUIV HEPTANE (H)

9.54min 10.34PPBV m

response 2007047

Signal	Exp%	Act%
TIC	100	100
0.00	1.30	1.50#
0.00	1.20	1.28#
0.00	0.00	0.00

3W46980.D M3W1782.M Thu Apr 16 15:43:58 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W47222.D Vial: 2
Acq On : 27 Apr 2015 10:30 am Operator: YOUMINH
Sample : CC1782-10 Inst : MS3W
Misc : MS84235,V3W1792,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 28 09:36:28 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.16	128	108651	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	8.74	114	481342	10.00	PPBV	0.00
71) CHLOROBENZENE-D5	12.88	82	230601	10.00	PPBV	0.00
System Monitoring Compounds						
86) 4-BROMOFLUOROBENZENE	14.52	95	272077	10.54	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery =	105.40%		
Target Compounds						Qvalue
4) FREON 152A	4.23	65	87520	9.12	PPBV	99
5) CHLORODIFLUOROMETHANE	4.26	67	33787	9.11	PPBV	99
6) DICHLORODIFLUOROMETHANE	4.31	85	339338	8.92	PPBV	99
7) PROPYLENE	4.27	41	112757	9.04	PPBV	98
9) FREON 114	4.44	85	353004	8.99	PPBV	98
10) CHLOROMETHANE	4.41	50	153894	8.82	PPBV	99
11) VINYL CHLORIDE	4.52	62	154724	9.32	PPBV	100
12) 1,3-BUTADIENE	4.58	54	111786	9.46	PPBV	98
13) n-BUTANE	4.60	43	220156	9.19	PPBV	100
14) BROMOMETHANE	4.74	94	136036	9.41	PPBV	100
15) CHLOROETHANE	4.82	64	79612	9.33	PPBV	99
16) DICHLOROFLUOROMETHANE	4.87	67	305768	9.15	PPBV	100
17) ACETONITRILE	5.04	41	105327	10.07	PPBV	99
18) FREON 123	5.08	83	334092	9.50	PPBV	100
19) FREON 123A	5.11	117	180703	9.57	PPBV	98
20) TRICHLOROFLUOROMETHANE	5.23	101	338637	9.46	PPBV	100
22) ISOPROPYL ALCOHOL	5.29	45	260119	10.56	PPBV	98
23) ACETONE	5.15	58	63830	9.37	PPBV	99
24) PENTANE	5.40	42	156626	9.13	PPBV	100
25) TVHC as EQUIV PENTANE	5.40	TIC	860569m	9.95	PPBV	
26) IODOMETHANE	5.57	142	355668	9.82	PPBV	99
27) 1,1-DICHLOROETHYLENE	5.61	96	128672	9.37	PPBV	98
28) CARBON DISULFIDE	5.87	76	390774	9.35	PPBV	99
29) ETHANOL	4.91	45	57613	10.08	PPBV	99
30) BROMOETHENE	5.02	106	135041	9.64	PPBV	99
31) ACRYLONITRILE	5.43	52	82368	10.79	PPBV	100
32) METHYLENE CHLORIDE	5.69	84	114765	9.32	PPBV	95
33) 3-CHLOROPROPENE	5.75	76	62718	9.66	PPBV	97
34) FREON 113	5.82	151	209028	9.85	PPBV	98
35) TRANS-1,2-DICHLOROETHYLENE	6.26	96	128643	9.40	PPBV	98
36) TERTIARY BUTYL ALCOHOL	5.63	59	325938	10.86	PPBV	100
37) METHYL TERTIARY BUTYL ETHE	6.42	73	365603	9.95	PPBV	100
38) TETRAHYDROFURAN	7.55	72	62084	9.95	PPBV	98
39) HEXANE	7.09	57	207682	9.26	PPBV	99
40) VINYL ACETATE	6.51	86	27569	10.56	PPBV	98
41) 1,1-DICHLOROETHANE	6.41	63	249191	9.19	PPBV	100
42) METHYL ETHYL KETONE	6.68	72	63592	10.47	PPBV	95
43) cis-1,2-DICHLOROETHYLENE	7.05	96	134163	9.67	PPBV	99
44) DIISOPROPYL ETHER	7.11	59	50052	9.67	PPBV #	85
45) ETHYL ACETATE	7.17	61	49274	9.87	PPBV	98
46) METHYL ACRYLATE	7.19	55	211749	10.30	PPBV	99
47) CHLOROFORM	7.25	83	264318	9.14	PPBV	100
48) 2,4-DIMETHYLPENTANE	7.78	57	253312	9.42	PPBV	100
49) 1,1,1-TRICHLOROETHANE	8.03	97	254370	9.14	PPBV	99
50) CARBON TETRACHLORIDE	8.55	117	264585	9.00	PPBV	99
51) 1,2-DICHLOROETHANE	7.83	62	157206	9.69	PPBV	99
53) BENZENE	8.42	78	394820	9.35	PPBV	99
54) CYCLOHEXANE	8.59	84	213442	9.04	PPBV	99
55) 2,3-DIMETHYLPENTANE	8.78	71	91558	8.90	PPBV	100

(#) = qualifier out of range (m) = manual integration
3W47222.D M3W1782.M Tue Apr 28 10:44:13 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W47222.D Vial: 2
Acq On : 27 Apr 2015 10:30 am Operator: YOUMINH
Sample : CC1782-10 Inst : MS3W
Misc : MS84235,V3W1792,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 28 09:36:28 2015 Quant Results File: M3W1782.RES

Quant Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Initial Calibration
DataAcq Meth : TO153W

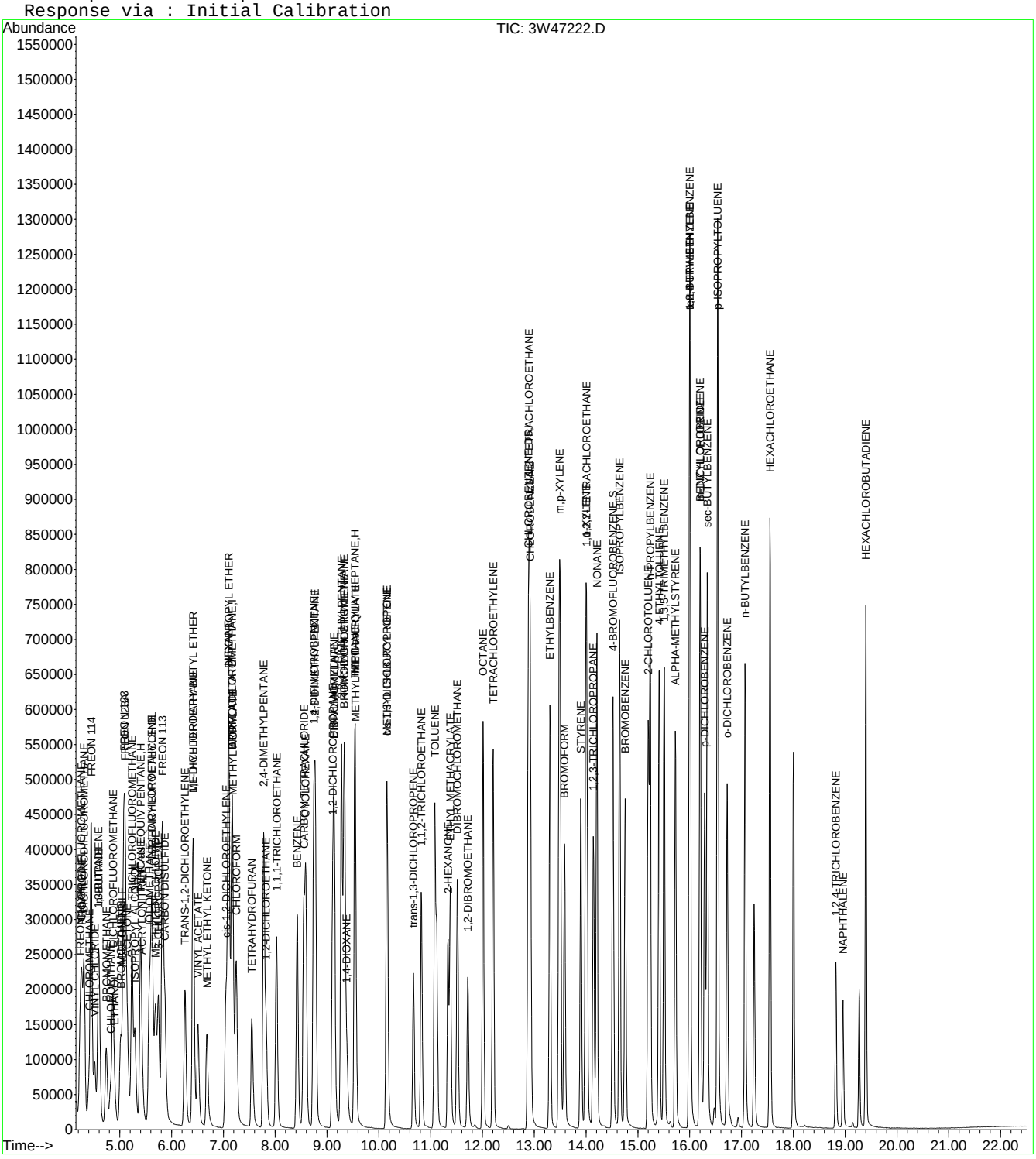
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
56)	TRICHLOROETHYLENE	9.34	95	168798	9.14	PPBV	99
57)	1,2-DICHLOROPROPANE	9.10	63	152229	8.96	PPBV	99
58)	DIBROMOMETHANE	9.13	174	155425	9.99	PPBV	97
59)	ETHYL ACRYLATE	9.14	55	271272	10.24	PPBV	100
60)	BROMODICHLOROMETHANE	9.32	83	281879	9.63	PPBV	98
61)	2,2,4-TRIMETHYLPENTANE	9.28	57	649196	9.22	PPBV	100
62)	1,4-DIOXANE	9.38	88	92215	11.16	PPBV	99
63)	HEPTANE	9.54	43	241687	9.33	PPBV	100
64)	TVHC as EQUIV HEPTANE	9.54	TIC	1598559m	9.84	PPBV	
65)	METHYL METHACRYLATE	9.55	69	135100	9.93	PPBV	99
66)	METHYL ISOBUTYL KETONE	10.15	58	118117	9.96	PPBV	99
67)	cis-1,3-DICHLOROPROPENE	10.16	75	208294	9.96	PPBV	99
68)	TOLUENE	11.08	92	264832	9.32	PPBV	99
69)	trans-1,3-DICHLOROPROPENE	10.67	75	174337	10.27	PPBV	100
70)	1,1,2-TRICHLOROETHANE	10.82	83	134307	9.91	PPBV	100
72)	2-HEXANONE	11.34	58	153544	10.69	PPBV	100
73)	ETHYL METHACRYLATE	11.38	69	221391	10.54	PPBV	99
74)	TETRACHLOROETHYLENE	12.21	164	173513	9.43	PPBV	98
75)	DIBROMOCHLOROMETHANE	11.52	129	265346	9.99	PPBV	100
76)	1,2-DIBROMOETHANE	11.72	107	212169	10.14	PPBV	100
77)	OCTANE	12.01	43	324233	10.47	PPBV	99
78)	1,1,1,2-TETRACHLOROETHANE	12.91	131	199149	10.32	PPBV	99
79)	CHLOROBENZENE	12.92	112	327678	10.01	PPBV	99
80)	ETHYLBENZENE	13.30	91	569708	10.39	PPBV	100
81)	m,p-XYLENE	13.49	106	433682	21.06	PPBV	99
82)	o-XYLENE	13.99	106	212404	10.74	PPBV	100
83)	STYRENE	13.90	104	307177	11.51	PPBV	99
84)	NONANE	14.21	43	321739	11.27	PPBV	100
85)	BROMOFORM	13.58	173	268757	11.00	PPBV	99
87)	1,1,2,2-TETRACHLOROETHANE	14.01	83	332387	10.74	PPBV	100
88)	1,2,3-TRICHLOROPROPANE	14.14	75	239729	10.40	PPBV	99
89)	ISOPROPYLBENZENE	14.65	105	629044	10.67	PPBV	100
90)	BROMOBENZENE	14.76	77	274860	10.04	PPBV	97
91)	2-CHLOROTOLUENE	15.20	126	150638	10.97	PPBV	100
92)	n-PROPYLBENZENE	15.24	120	162455	10.90	PPBV	100
93)	4-ETHYLTOLUENE	15.41	105	566434	11.60	PPBV	100
94)	1,3,5-TRIMETHYLBENZENE	15.51	105	492058	10.92	PPBV	100
95)	ALPHA-METHYLSTYRENE	15.72	118	232909	11.34	PPBV	99
96)	tert-BUTYLBENZENE	16.00	134	111734	11.15	PPBV	99
97)	1,2,4-TRIMETHYLBENZENE	16.01	105	477132	11.51	PPBV	100
98)	m-DICHLOROBENZENE	16.20	146	286282	11.34	PPBV	99
99)	BENZYL CHLORIDE	16.20	91	356606	10.81	PPBV	100
100)	p-DICHLOROBENZENE	16.29	146	278896	10.90	PPBV	99
101)	sec-BUTYLBENZENE	16.34	134	131369	10.63	PPBV	99
102)	p-ISOPROPYLTOLUENE	16.54	134	144103	11.39	PPBV	99
103)	o-DICHLOROBENZENE	16.72	146	280665	11.22	PPBV	99
104)	n-BUTYLBENZENE	17.07	134	119043	11.33	PPBV	99
105)	HEXACHLOROETHANE	17.55	117	215578	10.30	PPBV	98
106)	HEXACHLOROBUTADIENE	19.40	225	173258	12.13	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.82	180	99487	11.32	PPBV	99
108)	NAPHTHALENE	18.96	128	182339	10.32	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
3W47222.D M3W1782.M Tue Apr 28 10:44:13 2015 MS3W

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\3W47222.D
Vial: 2
Acq On : 27 Apr 2015 10:30 am
Operator: YOUMINH
Sample : CC1782-10
Inst : MS3W
Misc : MS84235,V3W1792,,,,,1
Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 28 9:52 2015
Quant Results File: M3W1782.RES

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Initial Calibration

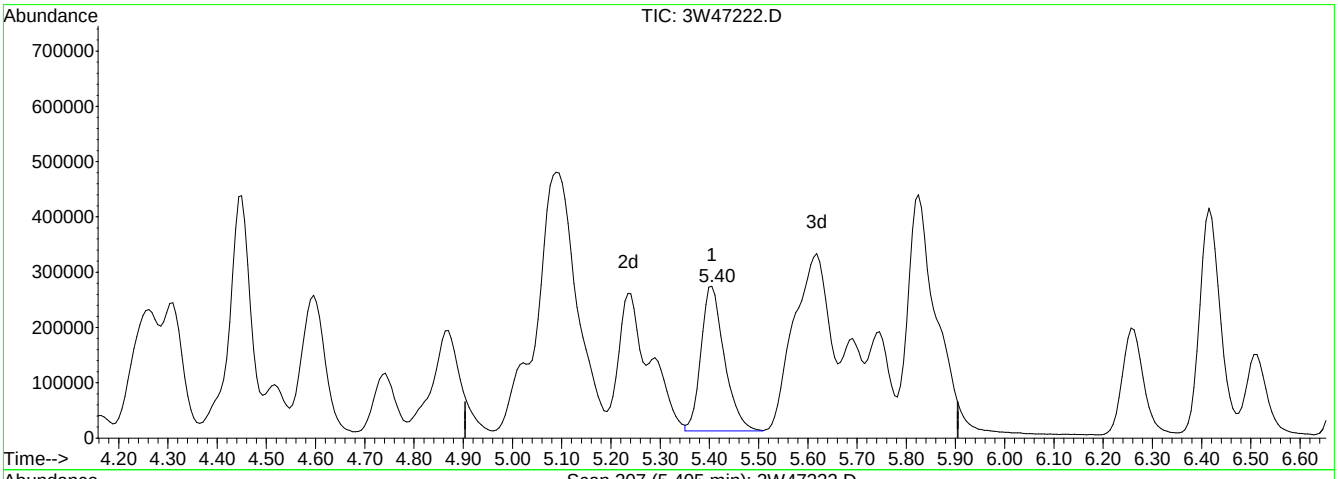


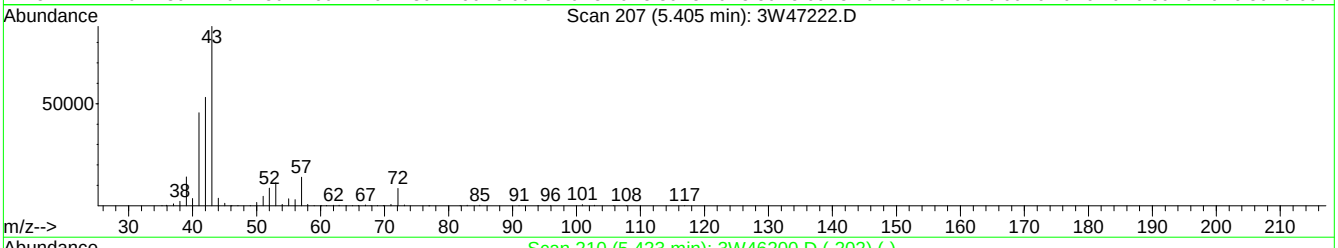
ACCUTEST LABORATORIES JB94203

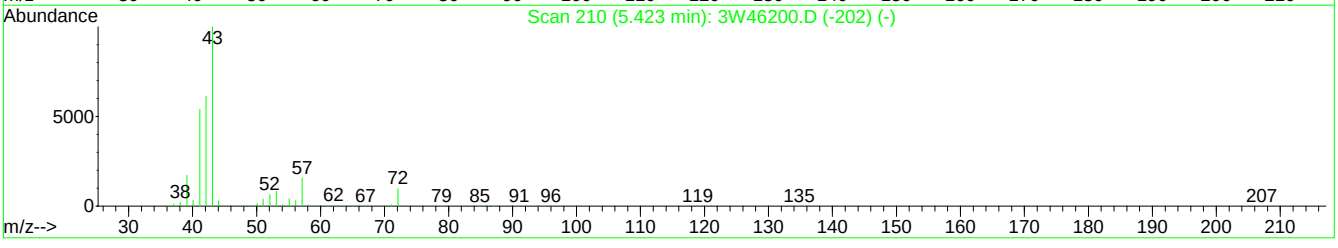
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W47222.D Vial: 2
Acq On : 27 Apr 2015 10:30 am Operator: YOUMINH
Sample : CC1782-10 Inst : MS3W
Misc : MS84235,V3W1792,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 28 9:52 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Multiple Level Calibration







TIC: 3W47222.D

(25) TVHC as EQUIV PENTANE (H)

5.40min 9.95PPBV m

response 860569

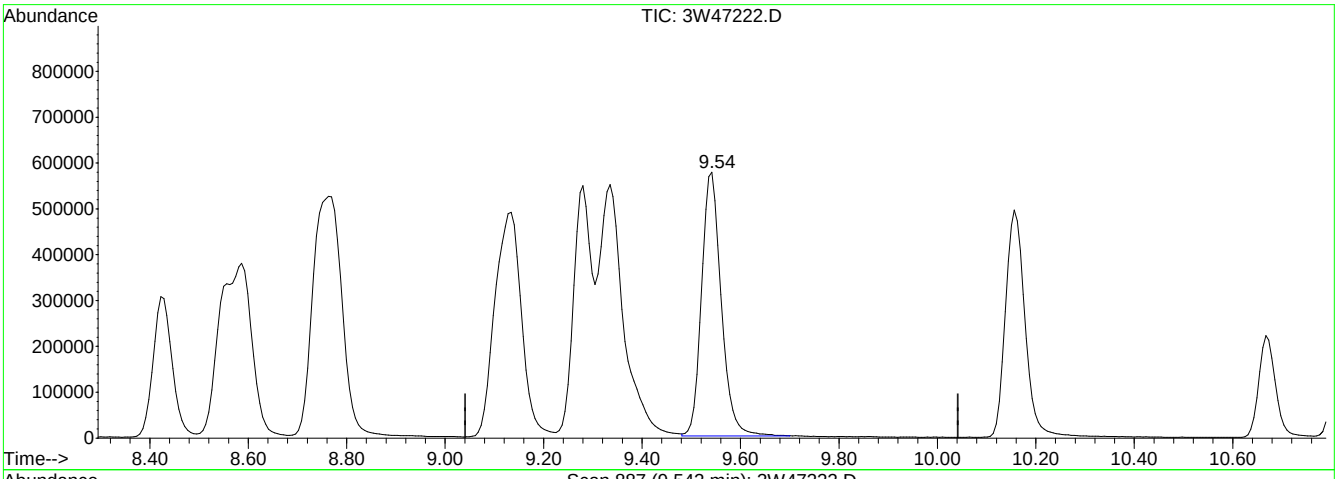
Signal	Exp%	Act%
TIC	100	100
0.00	2.50	2.64#
0.00	2.20	2.25#
0.00	0.00	0.00

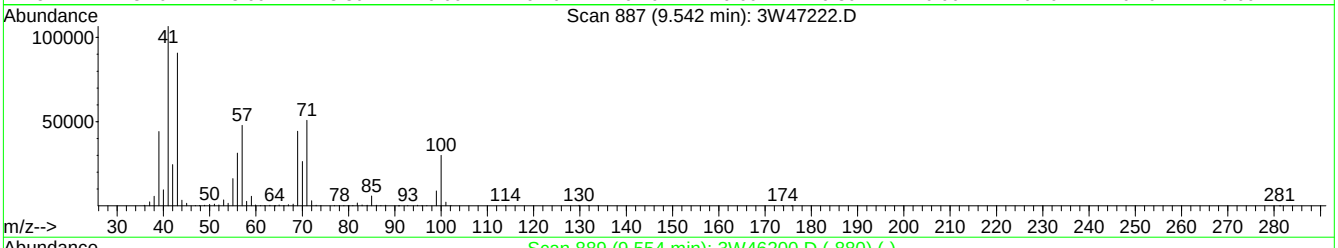
3W47222.D M3W1782.M Tue Apr 28 10:34:43 2015 MS3W

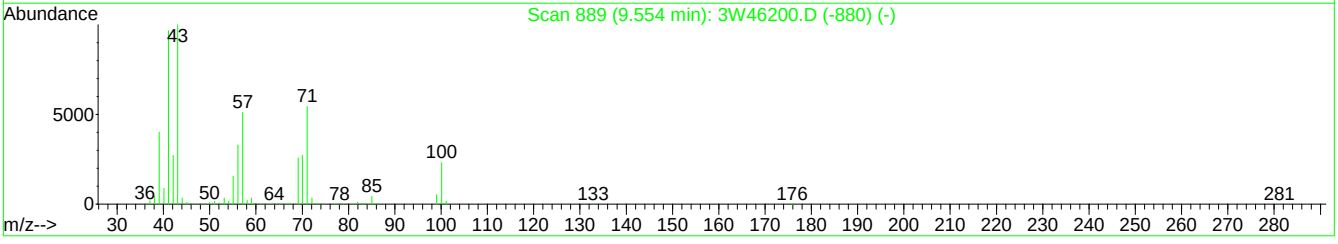
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3W47222.D Vial: 2
Acq On : 27 Apr 2015 10:30 am Operator: YOUMINH
Sample : CC1782-10 Inst : MS3W
Misc : MS84235,V3W1792,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P
Quant Time: Apr 28 9:52 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\M3W1782.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Wed Apr 15 11:30:49 2015
Response via : Multiple Level Calibration







TIC: 3W47222.D

(64) TVHC as EQUIV HEPTANE (H)

9.54min 9.84PPBV m

response 1598559

Signal	Exp%	Act%
TIC	100	100
0.00	1.30	1.42#
0.00	1.20	1.21#
0.00	0.00	0.00

3W47222.D M3W1782.M Tue Apr 28 10:48:59 2015 MS3W

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10668.D
Acq On : 2 Apr 2015 7:47 am
Operator : mikel1
Sample : IC419-0.04
Misc : MS82329,v5w419,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 03 14:37:58 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.576	130	145111	10.00	ppb(v	0.00
53) 1,4-Difluorobenzene	10.803	114	550493	10.00	ppb(v	0.00
75) Chlorobenzene-d5	16.407	82	279132	10.00	ppb(v	0.00
106) Bromochloromethane (A)	8.576	130	145111	10.00	ppb(v	0.00
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.658	95	377102	10.16	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 101.60%			
Target Compounds						Qvalue
5) Propene	3.975	41	573	0.05	ppb(v#	1
6) Dichlorodifluoromethane	4.043	85	1519	0.04	ppb(v#	90
8) Chloromethane	4.196	50	503	0.04	ppb(v#	42
9) Dichlorotetrafluoroethane	4.269	85	1432	0.04	ppb(v	90
10) Vinyl Chloride	4.385	62	571	0.04	ppb(v#	96
11) 1,3-Butadiene	4.495	54	406	0.04	ppb(v#	77
13) Bromomethane	4.746	94	690	0.04	ppb(v#	79
14) Chloroethane	4.905	64	251	0.03	ppb(v#	49
15) Dichlorofluoromethane	4.979	67	1320	0.04	ppb(v#	93
16) Acetonitrile	5.217	41	372	0.03	ppb(v#	1
17) Freon 123	5.352	83	1402	0.04	ppb(v	99
18) Freon 123A	5.401	117	726	0.04	ppb(v	89
19) Bromoethene	5.223	106	513	0.03	ppb(v#	84
20) Trichlorofluoromethane	5.609	101	1315	0.03	ppb(v#	89
21) Acetone	5.480	58	273	0.04	ppb(v	77
24) Iodomethane	6.147	142	1478	0.03	ppb(v	98
26) 1,1-Dichloroethene	6.215	61	840	0.03	ppb(v	90
27) Freon 113	6.588	101	1154	0.03	ppb(v	94
28) Methylene Chloride	6.337	84	615	0.04	ppb(v#	84
29) Carbon Disulfide	6.637	76	1609	0.03	ppb(v#	74
32) 3-Chloropropene	6.441	76	181	0.02	ppb(v#	89
33) trans-1,2-Dichloroethene	7.285	61	831	0.03	ppb(v#	89
35) Methyl tert-Butyl Ether	7.597	73	1389	0.03	ppb(v#	91
36) Vinyl Acetate	7.658	43	1223	0.03	ppb(v#	76
37) 1,1-Dichloroethane	7.499	63	1012	0.03	ppb(v#	97
39) Hexane	8.619	57	1189	0.05	ppb(v#	53
40) cis-1,2-Dichloroethene	8.392	61	714	0.03	ppb(v#	79
41) Di-isopropyl Ether	8.637	45	1949	0.03	ppb(v#	66
44) Chloroform	8.717	83	1203	0.03	ppb(v#	89
45) 2,4-Dimethylpentane	9.622	57	976	0.03	ppb(v	94
47) 1,1,1-Trichloroethane	9.836	97	1139	0.03	ppb(v#	86
48) 1,2-Dichloroethane	9.549	62	656	0.03	ppb(v#	91
49) Benzene	10.375	78	1921	0.04	ppb(v	96
50) Carbon Tetrachloride	10.552	117	1192	0.03	ppb(v	97
51) Cyclohexane	10.699	56	877	0.03	ppb(v	98
52) 2,3-Dimethylpentane	10.986	71	290	0.03	ppb(v#	89
54) 2,2,4-Trimethylpentane	11.696	57	2930	0.04	ppb(v#	97
55) Heptane	12.026	71	484	0.03	ppb(v#	83
56) Trichloroethene	11.647	95	854	0.04	ppb(v	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10668.D
Acq On : 2 Apr 2015 7:47 am
Operator : mikel1
Sample : IC419-0.04
Misc : MS82329,v5w419,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 03 14:37:58 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration

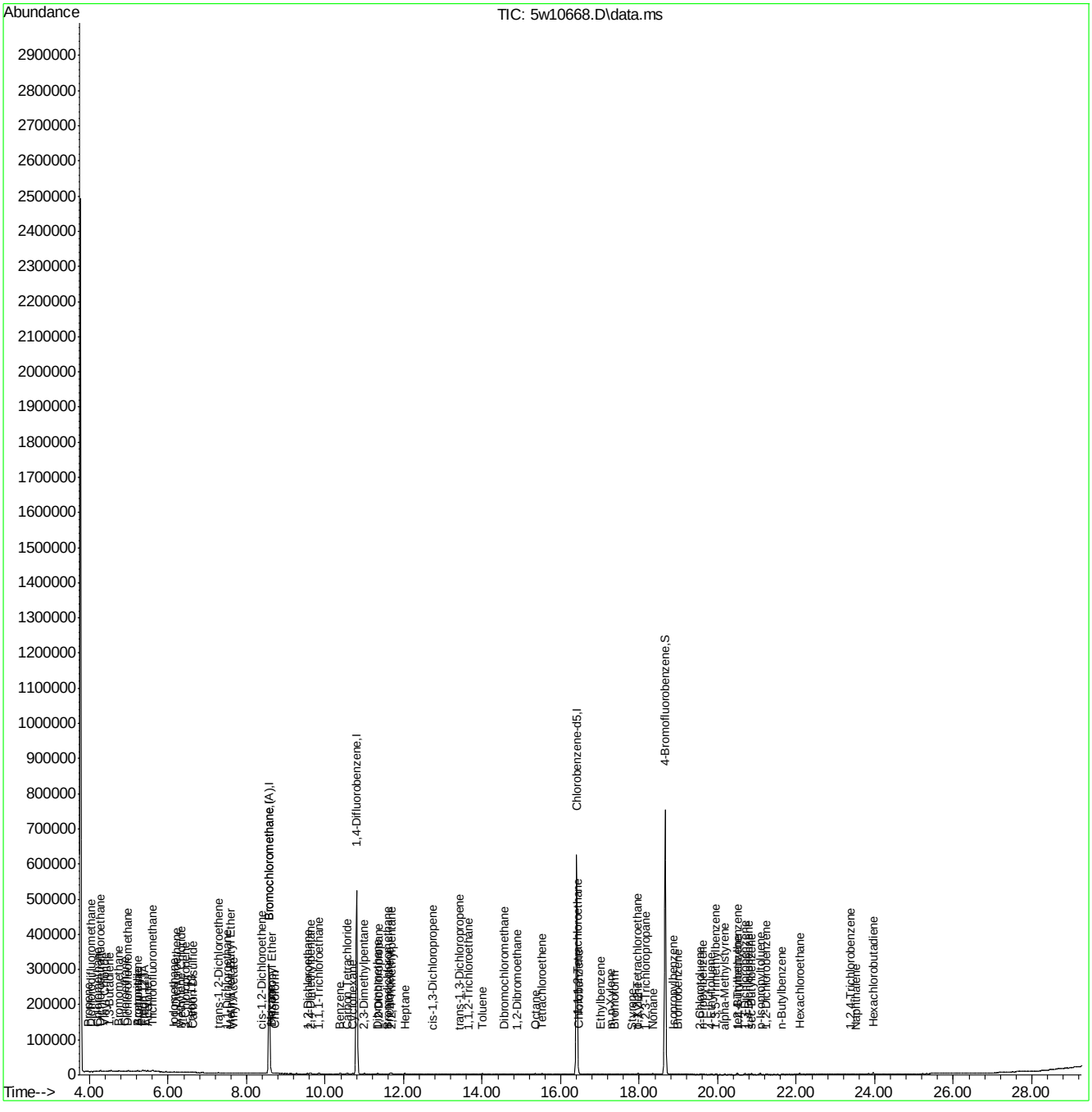
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57)	1,2-Dichloropropane	11.366	63	625	0.03	ppb(v#	44
58)	Dibromomethane	11.335	174	736	0.03	ppb(v	89
62)	Bromodichloromethane	11.598	83	1326	0.03	ppb(v#	93
63)	cis-1,3-Dichloropropene	12.736	75	985	0.03	ppb(v#	90
65)	trans-1,3-Dichloropropene	13.421	75	822	0.03	ppb(v#	70
66)	Toluene	14.002	91	2299	0.04	ppb(v#	92
67)	1,1,2-Trichloroethane	13.641	97	702	0.03	ppb(v	92
70)	Dibromochloromethane	14.559	129	1470	0.04	ppb(v#	93
71)	Tetrachloroethene	15.526	166	1110	0.04	ppb(v	92
72)	1,2-Dibromoethane	14.889	107	1136	0.03	ppb(v#	94
73)	Octane	15.354	43	1549	0.04	ppb(v	93
74)	1,1,1,2-Tetrachloroethane	16.443	131	851	0.03	ppb(v#	1
76)	Chlorobenzene	16.468	112	1756	0.04	ppb(v	95
77)	Ethylbenzene	17.025	91	2717	0.04	ppb(v	93
78)	m,p-Xylene	17.275	91	4455	0.08	ppb(v	95
79)	Styrene	17.820	104	1217	0.03	ppb(v	96
80)	Nonane	18.352	43	1596	0.04	ppb(v#	91
81)	o-Xylene	17.967	91	2085	0.04	ppb(v	94
82)	Bromoform	17.373	173	1219	0.03	ppb(v#	96
83)	1,1,2,2-Tetrachloroethane	17.967	83	1718	0.04	ppb(v#	97
84)	1,2,3-Trichloropropane	18.169	75	1117	0.03	ppb(v	95
85)	Isopropylbenzene	18.878	105	2840	0.04	ppb(v	98
86)	Bromobenzene	18.988	156	938	0.04	ppb(v	90
87)	2-Chlorotoluene	19.557	126	631	0.03	ppb(v	99
88)	n-Propylbenzene	19.625	120	664	0.03	ppb(v	96
90)	4-Ethyltoluene	19.833	105	2522	0.03	ppb(v	96
91)	1,3,5-Trimethylbenzene	19.949	105	2365	0.04	ppb(v	94
92)	alpha-Methylstyrene	20.169	118	825	0.02	ppb(v	94
93)	tert-Butylbenzene	20.493	134	418	0.03	ppb(v	85
94)	1,2,4-Trimethylbenzene	20.506	105	2135	0.03	ppb(v	97
95)	1,3-Dichlorobenzene	20.695	146	1663	0.04	ppb(v	91
97)	1,4-Dichlorobenzene	20.787	146	1648	0.04	ppb(v	91
98)	sec-Butylbenzene	20.860	134	535	0.03	ppb(v	88
99)	p-Isopropyltoluene	21.087	134	549	0.03	ppb(v	82
100)	1,2-Dichlorobenzene	21.234	146	1566	0.04	ppb(v	91
101)	n-Butylbenzene	21.637	134	373	0.02	ppb(v	86
102)	Hexachloroethane	22.090	201	912	0.04	ppb(v	97
103)	1,2,4-Trichlorobenzene	23.393	180	941	0.04	ppb(v	98
104)	Naphthalene	23.528	128	1620	0.03	ppb(v#	69
105)	Hexachlorobutadiene	23.962	225	1476	0.06	ppb(v	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10668.D
Acq On : 2 Apr 2015 7:47 am
Operator : mikel1
Sample : IC419-0.04
Misc : MS82329,v5w419,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 03 14:37:58 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Jessica Reitan-Chu
04/03/15 16:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10669.D
Acq On : 2 Apr 2015 8:28 am
Operator : mikel1
Sample : IC419-0.1
Misc : MS82329,v5w419,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 03 14:37:48 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.570	130	151786	10.00	ppb(v	0.00
53) 1,4-Difluorobenzene	10.803	114	577588	10.00	ppb(v	0.00
75) Chlorobenzene-d5	16.406	82	291832	10.00	ppb(v	0.00
106) Bromochloromethane (A)	8.570	130	151786	10.00	ppb(v	0.00
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.658	95	396053	10.21	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 102.10%			
Target Compounds						Qvalue
4) Chlorodifluoromethane	3.945	67	306	0.08	ppb(v#	41
5) Propene	3.969	41	1104	0.10	ppb(v#	1
6) Dichlorodifluoromethane	4.036	85	3675	0.08	ppb(v	98
8) Chloromethane	4.189	50	1211	0.09	ppb(v	96
9) Dichlorotetrafluoroethane	4.269	85	3600	0.08	ppb(v	96
10) Vinyl Chloride	4.379	62	1385	0.08	ppb(v#	97
11) 1,3-Butadiene	4.495	54	1006	0.08	ppb(v	90
12) n-Butane	4.550	58	177	0.07	ppb(v#	1
13) Bromomethane	4.746	94	1483	0.09	ppb(v	98
14) Chloroethane	4.899	64	744	0.09	ppb(v#	92
15) Dichlorofluoromethane	4.979	67	3175	0.09	ppb(v	98
16) Acetonitrile	5.217	41	1084m	0.08	ppb(v	
17) Freon 123	5.352	83	3406	0.08	ppb(v	94
18) Freon 123A	5.401	117	1788	0.09	ppb(v	93
19) Bromoethene	5.217	106	1336	0.08	ppb(v#	89
20) Trichlorofluoromethane	5.609	101	3522	0.08	ppb(v	97
21) Acetone	5.474	58	603	0.08	ppb(v	98
22) Pentane	5.939	57	309	0.08	ppb(v	94
24) Iodomethane	6.147	142	3729	0.08	ppb(v	99
25) Isopropyl Alcohol	5.694	45	2563	0.09	ppb(v#	76
26) 1,1-Dichloroethene	6.214	61	2137	0.08	ppb(v	92
27) Freon 113	6.588	101	2877	0.08	ppb(v	95
28) Methylene Chloride	6.331	84	1387	0.09	ppb(v	95
29) Carbon Disulfide	6.637	76	4065	0.08	ppb(v	99
30) Ethanol	5.021	45	664	0.10	ppb(v#	96
31) Acrylonitrile	5.890	53	772	0.06	ppb(v	99
32) 3-Chloropropene	6.453	76	503	0.06	ppb(v	97
33) trans-1,2-Dichloroethene	7.279	61	1904	0.08	ppb(v	96
35) Methyl tert-Butyl Ether	7.591	73	3479	0.08	ppb(v	95
36) Vinyl Acetate	7.658	43	2789	0.06	ppb(v#	76
37) 1,1-Dichloroethane	7.493	63	2611	0.08	ppb(v#	97
39) Hexane	8.619	57	2918	0.11	ppb(v#	54
40) cis-1,2-Dichloroethene	8.386	61	1966	0.08	ppb(v	99
41) Di-isopropyl Ether	8.631	45	4603	0.07	ppb(v	95
44) Chloroform	8.723	83	3077	0.08	ppb(v	98
45) 2,4-Dimethylpentane	9.616	57	2469	0.08	ppb(v	97
47) 1,1,1-Trichloroethane	9.836	97	2952	0.08	ppb(v	99
48) 1,2-Dichloroethane	9.549	62	1751	0.08	ppb(v#	92
49) Benzene	10.381	78	4533	0.08	ppb(v	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10669.D
Acq On : 2 Apr 2015 8:28 am
Operator : mikel1
Sample : IC419-0.1
Misc : MS82329,v5w419,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 03 14:37:48 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration

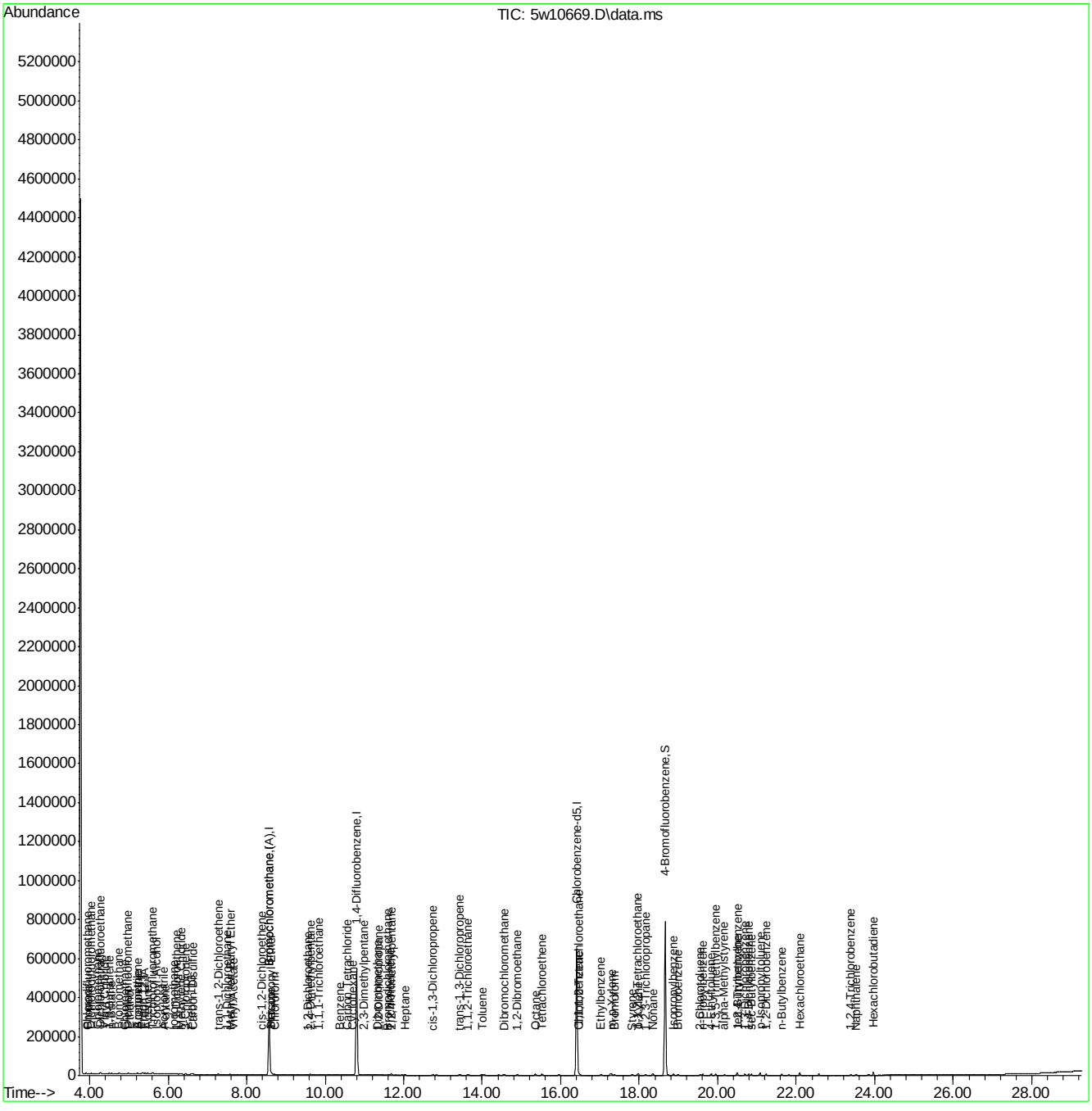
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	Carbon Tetrachloride	10.552	117	2953	0.08	ppb(v	96
51)	Cyclohexane	10.699	56	2239	0.08	ppb(v	94
52)	2,3-Dimethylpentane	10.980	71	866	0.07	ppb(v#	68
54)	2,2,4-Trimethylpentane	11.690	57	6655	0.08	ppb(v	100
55)	Heptane	12.026	71	1360	0.08	ppb(v	98
56)	Trichloroethene	11.653	95	2028	0.08	ppb(v	96
57)	1,2-Dichloropropane	11.359	63	1667	0.08	ppb(v#	95
58)	Dibromomethane	11.329	174	1938	0.09	ppb(v	99
62)	Bromodichloromethane	11.598	83	3222	0.08	ppb(v	99
63)	cis-1,3-Dichloropropene	12.736	75	2490	0.07	ppb(v#	91
65)	trans-1,3-Dichloropropene	13.421	75	2114	0.07	ppb(v	96
66)	Toluene	14.002	91	5335	0.08	ppb(v	98
67)	1,1,2-Trichloroethane	13.635	97	1783	0.08	ppb(v	97
70)	Dibromochloromethane	14.559	129	3449	0.08	ppb(v#	98
71)	Tetrachloroethene	15.526	166	2752	0.08	ppb(v	94
72)	1,2-Dibromoethane	14.889	107	2943	0.08	ppb(v#	97
73)	Octane	15.348	43	3385	0.08	ppb(v	97
74)	1,1,1,2-Tetrachloroethane	16.449	131	2118	0.07	ppb(v#	1
76)	Chlorobenzene	16.468	112	4218	0.09	ppb(v	96
77)	Ethylbenzene	17.024	91	6713	0.09	ppb(v	99
78)	m,p-Xylene	17.294	91	11122	0.18	ppb(v	99
79)	Styrene	17.820	104	3348	0.07	ppb(v	98
80)	Nonane	18.346	43	3490	0.09	ppb(v#	96
81)	o-Xylene	17.973	91	5226	0.08	ppb(v	98
82)	Bromoform	17.373	173	3182	0.08	ppb(v	97
83)	1,1,2,2-Tetrachloroethane	17.967	83	4354	0.09	ppb(v#	98
84)	1,2,3-Trichloropropane	18.162	75	2900	0.08	ppb(v	97
85)	Isopropylbenzene	18.872	105	7188	0.08	ppb(v	97
86)	Bromobenzene	18.982	156	2414	0.09	ppb(v	98
87)	2-Chlorotoluene	19.557	126	1803	0.08	ppb(v	93
88)	n-Propylbenzene	19.618	120	1690	0.08	ppb(v	98
90)	4-Ethyltoluene	19.832	105	6539	0.08	ppb(v	99
91)	1,3,5-Trimethylbenzene	19.943	105	5687	0.08	ppb(v	97
92)	alpha-Methylstyrene	20.163	118	2494	0.07	ppb(v	99
93)	tert-Butylbenzene	20.493	134	1194	0.08	ppb(v	96
94)	1,2,4-Trimethylbenzene	20.505	105	5484	0.08	ppb(v	88
95)	1,3-Dichlorobenzene	20.689	146	4043m	0.09	ppb(v	
97)	1,4-Dichlorobenzene	20.787	146	3976	0.09	ppb(v	97
98)	sec-Butylbenzene	20.860	134	1520	0.08	ppb(v	97
99)	p-Isopropyltoluene	21.080	134	1468	0.07	ppb(v	96
100)	1,2-Dichlorobenzene	21.233	146	3834	0.09	ppb(v	93
101)	n-Butylbenzene	21.631	134	1204	0.06	ppb(v	94
102)	Hexachloroethane	22.090	201	2231	0.09	ppb(v	97
103)	1,2,4-Trichlorobenzene	23.387	180	2105	0.08	ppb(v	97
104)	Naphthalene	23.521	128	2925	0.05	ppb(v	96
105)	Hexachlorobutadiene	23.962	225	3340	0.12	ppb(v	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10669.D
Acq On : 2 Apr 2015 8:28 am
Operator : mikel1
Sample : IC419-0.1
Misc : MS82329,v5w419,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 03 14:37:48 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration



Manual Integration Approval Summary

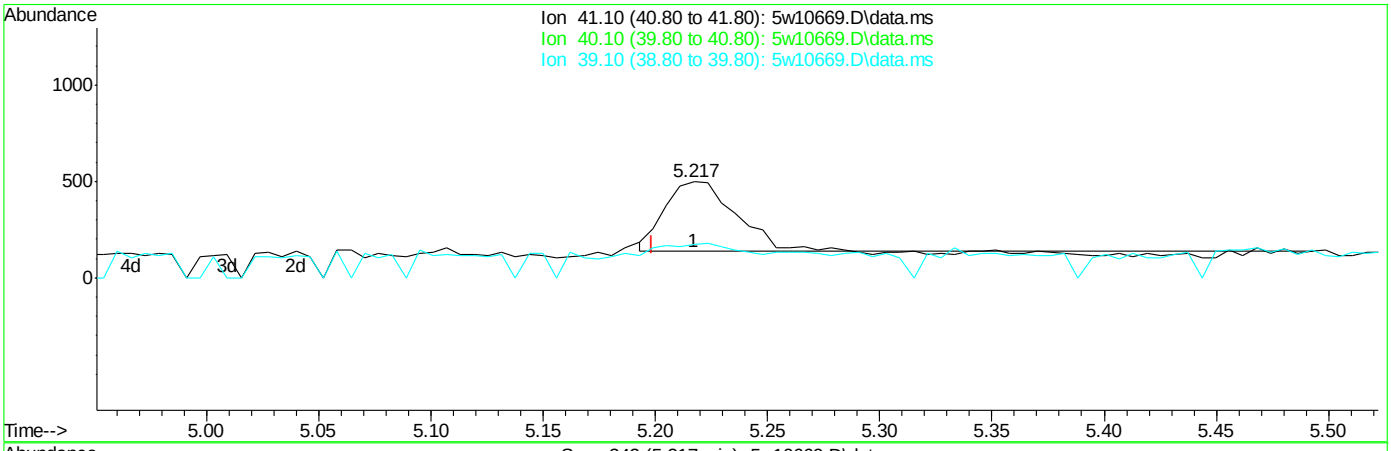
Sample Number:	V5W419-IC419	**Method:**	TO-15
Lab FileID:	5W10669.D	**Analyst approved:**	04/03/15 15:42 Youmin Hu
Injection Time:	04/02/15 08:28	**Supervisor approved:**	04/03/15 16:45 Jessica Reitan-Chu

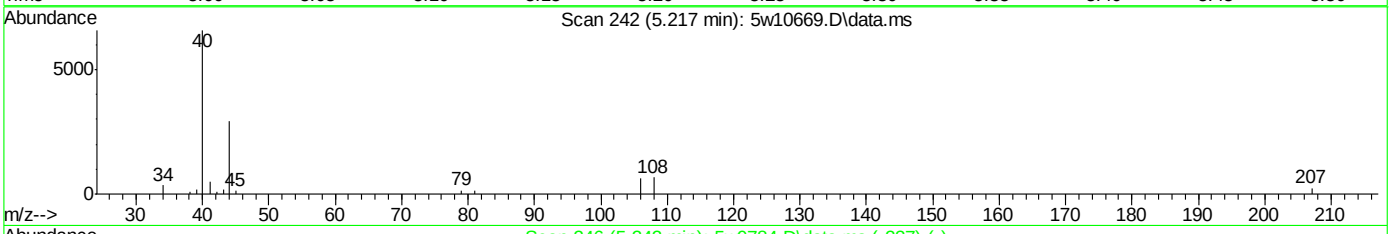
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		5.22	Poor instrument integration
m-Dichlorobenzene	541-73-1		20.69	Poor instrument integration

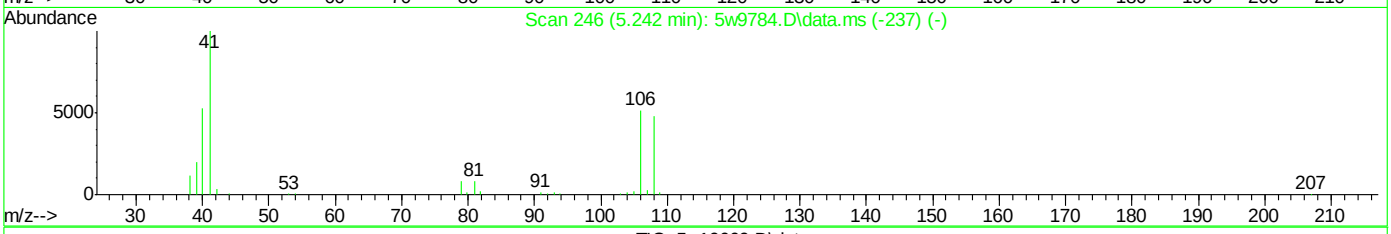
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10669.D
Acq On : 2 Apr 2015 8:28 am
Operator : mikel1
Sample : IC419-0.1
Misc : MS82329,v5w419,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 02 16:04:57 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Apr 02 16:04:22 2015
Response via : Initial Calibration







TIC: 5w10669.D\data.ms

(16) Acetonitrile

5.217min (+0.018) 0.05ppb(v)

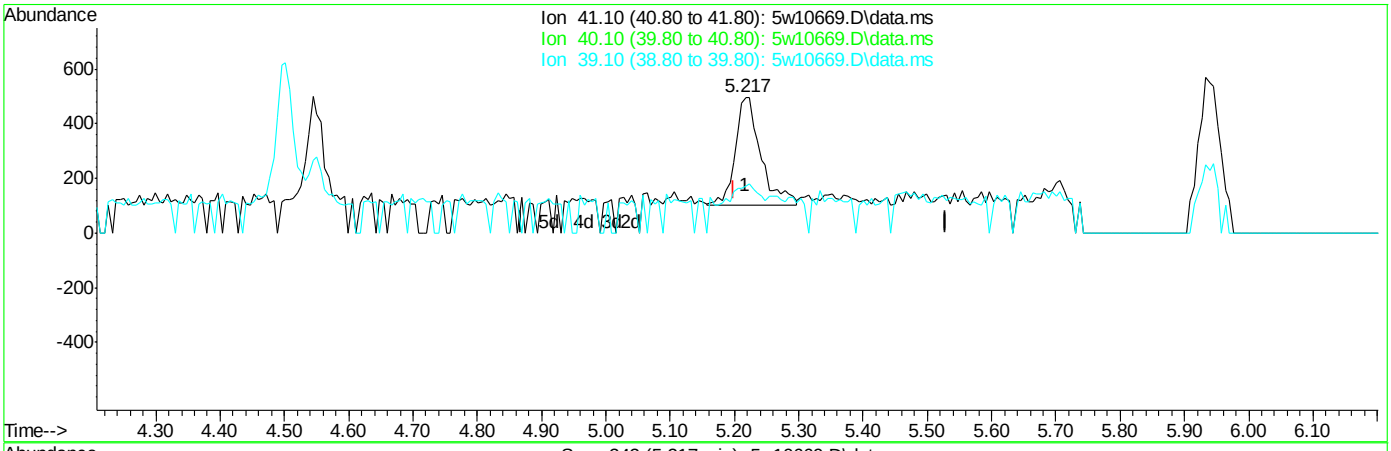
response 703

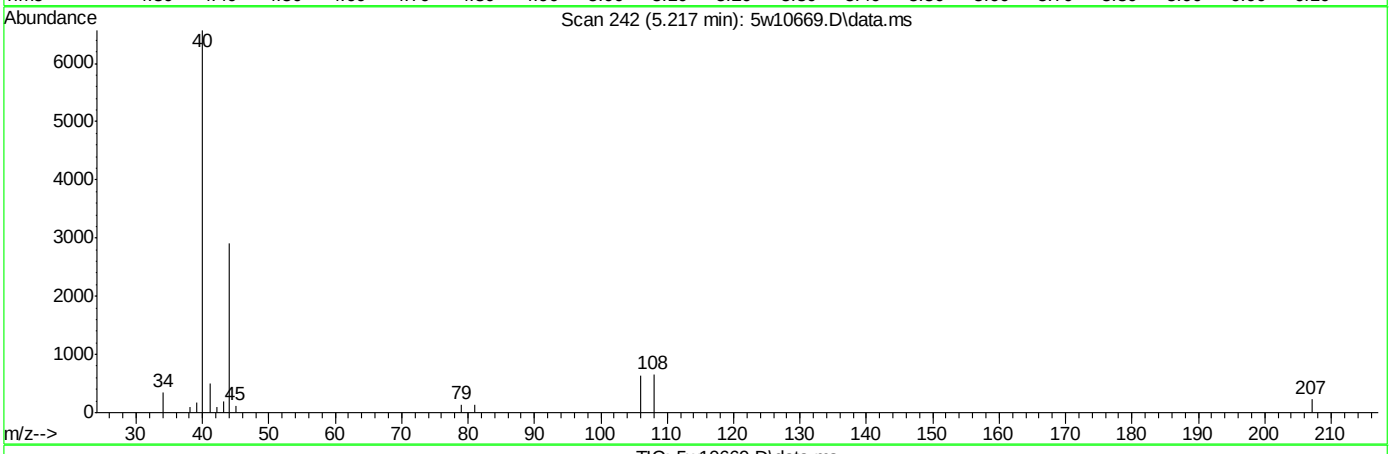
Ion	Exp%	Act%
41.10	100	100
40.10	53.80	1324.19#
39.10	19.60	34.48#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10669.D
Acq On : 2 Apr 2015 8:28 am
Operator : mikel1
Sample : IC419-0.1
Misc : MS82329,v5w419,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 03 07:01:07 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration





TIC: 5w10669.D\data.ms

(16) Acetonitrile

5.217min (+0.018) 0.08ppb(v) m

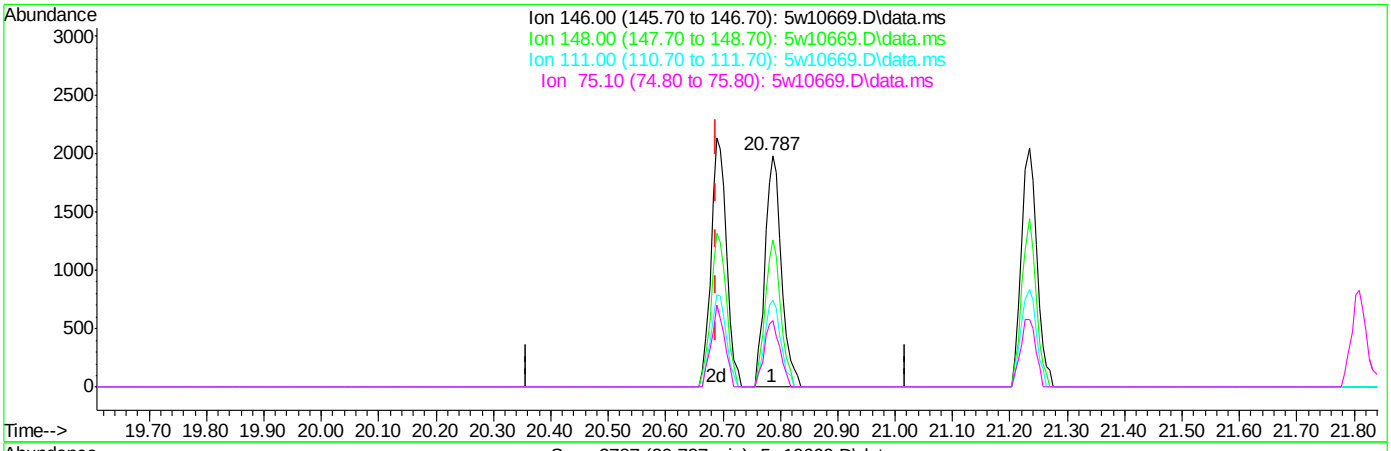
response 1084

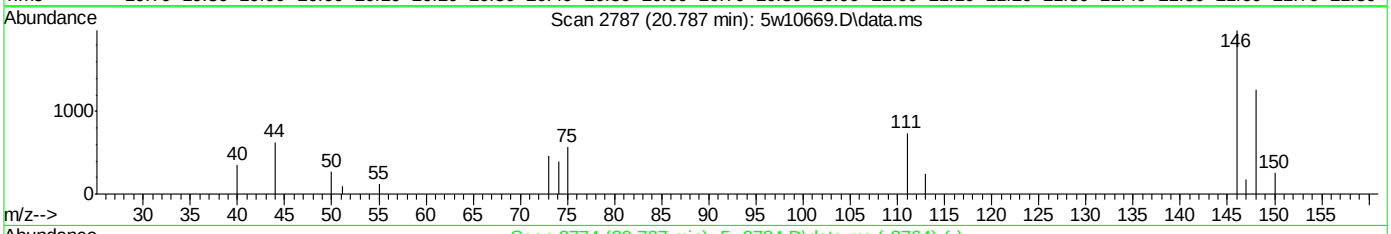
Ion	Exp%	Act%
41.10	100	100
40.10	53.80	1324.19#
39.10	19.60	34.48#
0.00	0.00	0.00

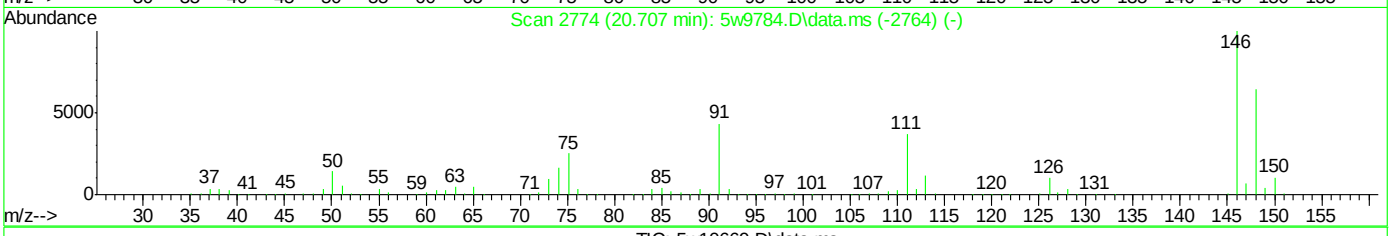
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10669.D
Acq On : 2 Apr 2015 8:28 am
Operator : mikel1
Sample : IC419-0.1
Misc : MS82329,v5w419,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 03 09:14:26 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration







TIC: 5w10669.D\data.ms

(95) 1,3-Dichlorobenzene

20.787min (+0.098) 0.09ppb(v)

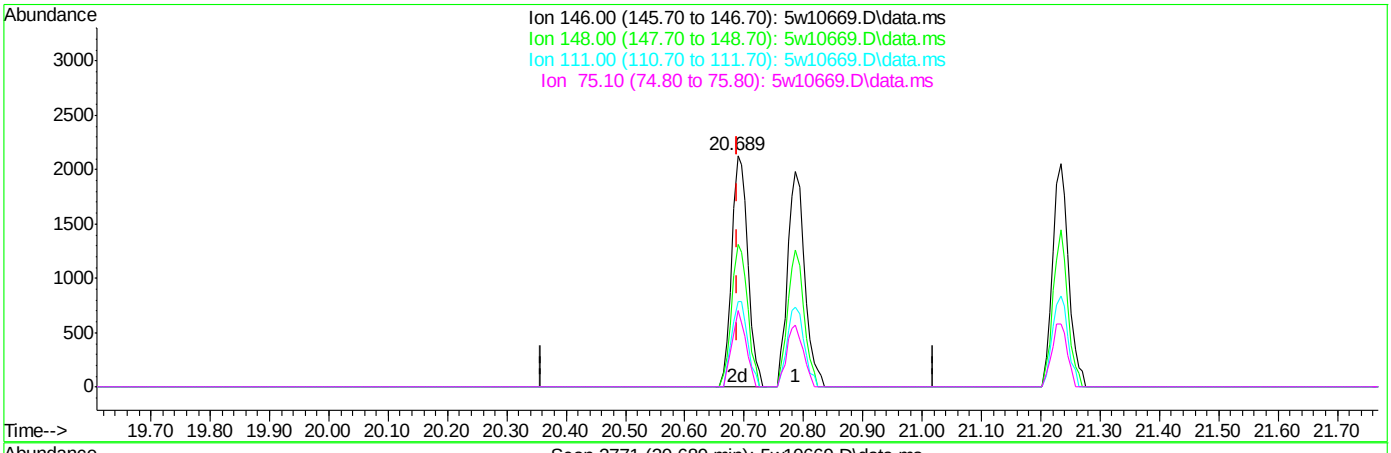
response 3976

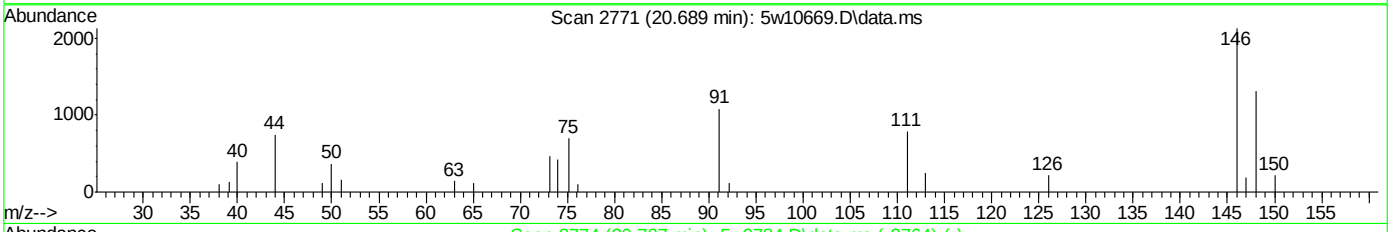
Ion	Exp%	Act%
146.00	100	100
148.00	64.70	63.60
111.00	37.20	37.30
75.10	25.10	28.72

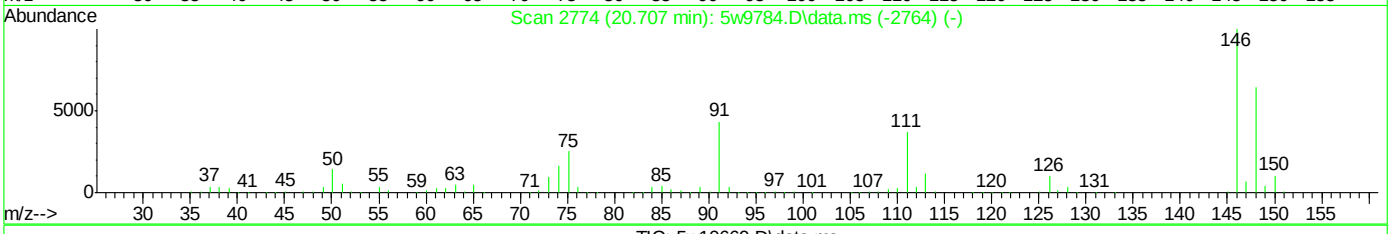
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10669.D
Acq On : 2 Apr 2015 8:28 am
Operator : mikel1
Sample : IC419-0.1
Misc : MS82329,v5w419,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 03 14:37:48 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration







TIC: 5w10669.D\data.ms

(95) 1,3-Dichlorobenzene

20.689min (0.000) 0.09ppb(v) m

response 4043

Ion	Exp%	Act%
146.00	100	100
148.00	64.70	61.64
111.00	37.20	37.09
75.10	25.10	33.00#

Manual Integrations APPROVED (compounds with "m" flag)
Jessica Reitan-Chu
04/03/15 16:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10670.D
Acq On : 2 Apr 2015 9:10 am
Operator : mikel1
Sample : IC419-0.2
Misc : MS82329,v5w419,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 06:48:36 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.594	130	146491	10.00	ppb(v	0.02
53) 1,4-Difluorobenzene	10.815	114	561880	10.00	ppb(v	0.01
75) Chlorobenzene-d5	16.413	82	287785	10.00	ppb(v	0.00
106) Bromochloromethane (A)	8.594	130	146491	10.00	ppb(v	0.02
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.664	95	388772	10.16	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 101.60%			
Target Compounds						Qvalue
3) Freon 152A	3.926	65	1894	0.20	ppb(v	89
4) Chlorodifluoromethane	3.969	67	635	0.16	ppb(v#	80
5) Propene	3.994	41	1870	0.17	ppb(v#	1
6) Dichlorodifluoromethane	4.061	85	7289	0.17	ppb(v	99
8) Chloromethane	4.208	50	2254	0.17	ppb(v	99
9) Dichlorotetrafluoroethane	4.294	85	7103	0.17	ppb(v	98
10) Vinyl Chloride	4.404	62	2847	0.18	ppb(v#	95
11) 1,3-Butadiene	4.520	54	1912	0.17	ppb(v	94
12) n-Butane	4.569	58	365	0.15	ppb(v#	31
13) Bromomethane	4.765	94	2852	0.18	ppb(v	98
14) Chloroethane	4.918	64	1378	0.17	ppb(v#	94
15) Dichlorofluoromethane	5.003	67	6247	0.17	ppb(v	99
16) Acetonitrile	5.242	41	4035	0.32	ppb(v#	1
17) Freon 123	5.376	83	6872	0.17	ppb(v	99
18) Freon 123A	5.425	117	3508	0.18	ppb(v	98
19) Bromoethene	5.242	106	2579	0.17	ppb(v	99
20) Trichlorofluoromethane	5.627	101	6933	0.17	ppb(v	100
21) Acetone	5.499	58	1540	0.21	ppb(v	93
22) Pentane	5.970	57	639	0.16	ppb(v	66
24) Iodomethane	6.166	142	7507	0.17	ppb(v	97
25) Isopropyl Alcohol	5.725	45	6043	0.22	ppb(v#	93
26) 1,1-Dichloroethene	6.239	61	4154	0.17	ppb(v	99
27) Freon 113	6.612	101	5693	0.17	ppb(v	93
28) Methylene Chloride	6.355	84	2450	0.17	ppb(v	99
29) Carbon Disulfide	6.661	76	8050	0.17	ppb(v	99
30) Ethanol	5.052	45	1932	0.29	ppb(v#	92
31) Acrylonitrile	5.915	53	2478	0.20	ppb(v	95
32) 3-Chloropropene	6.478	76	1163	0.15	ppb(v	95
33) trans-1,2-Dichloroethene	7.303	61	3893	0.16	ppb(v	97
34) tert-Butyl Alcohol	6.312	59	6232	0.17	ppb(v	95
35) Methyl tert-Butyl Ether	7.603	73	7431	0.17	ppb(v	95
36) Vinyl Acetate	7.677	43	7456	0.18	ppb(v	99
37) 1,1-Dichloroethane	7.511	63	5081	0.17	ppb(v#	97
38) 2-Butanone	7.976	72	1378	0.17	ppb(v	89
39) Hexane	8.637	57	4249	0.17	ppb(v	74
40) cis-1,2-Dichloroethene	8.405	61	3821	0.17	ppb(v	97
41) Di-isopropyl Ether	8.649	45	10020	0.17	ppb(v	96
42) Ethyl Acetate	8.686	61	843	0.14	ppb(v	86
43) Methyl Acrylate	8.668	55	5633	0.17	ppb(v	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10670.D
Acq On : 2 Apr 2015 9:10 am
Operator : mikel1
Sample : IC419-0.2
Misc : MS82329,v5w419,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 06:48:36 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Chloroform	8.735	83	6168	0.17	ppb(v	99
45) 2,4-Dimethylpentane	9.640	57	4796	0.16	ppb(v	96
46) Tetrahydrofuran	9.255	72	1289	0.16	ppb(v	86
47) 1,1,1-Trichloroethane	9.861	97	5833	0.17	ppb(v	98
48) 1,2-Dichloroethane	9.567	62	3560	0.16	ppb(v#	88
49) Benzene	10.393	78	8964	0.16	ppb(v	97
50) Carbon Tetrachloride	10.570	117	6017	0.17	ppb(v	98
51) Cyclohexane	10.717	56	4324	0.17	ppb(v	95
52) 2,3-Dimethylpentane	11.005	71	1780	0.16	ppb(v	90
54) 2,2,4-Trimethylpentane	11.702	57	13318	0.16	ppb(v	99
55) Heptane	12.039	71	2732	0.16	ppb(v	97
56) Trichloroethene	11.665	95	4132	0.17	ppb(v	99
57) 1,2-Dichloropropane	11.372	63	3335	0.16	ppb(v	99
58) Dibromomethane	11.341	174	3877	0.18	ppb(v	98
59) Ethyl Acrylate	11.415	55	6736	0.17	ppb(v	97
60) Methyl Methacrylate	11.941	69	3039	0.16	ppb(v	97
61) 1,4-Dioxane	11.720	88	2624	0.21	ppb(v#	79
62) Bromodichloromethane	11.610	83	6710	0.16	ppb(v	98
63) cis-1,3-Dichloropropene	12.748	75	5251	0.16	ppb(v	99
64) 4-Methyl-2-pentanone	12.828	58	2454	0.15	ppb(v	97
65) trans-1,3-Dichloropropene	13.427	75	4722	0.16	ppb(v	98
66) Toluene	14.008	91	10931	0.17	ppb(v	98
67) 1,1,2-Trichloroethane	13.641	97	3834	0.17	ppb(v	98
68) 2-Hexanone	14.400	58	3999	0.17	ppb(v	95
69) Ethyl Methacrylate	14.406	69	5278	0.16	ppb(v	98
70) Dibromochloromethane	14.565	129	6944	0.16	ppb(v	99
71) Tetrachloroethene	15.526	166	5283	0.17	ppb(v	99
72) 1,2-Dibromoethane	14.889	107	6441	0.17	ppb(v	100
73) Octane	15.360	43	6562	0.16	ppb(v	97
74) 1,1,1,2-Tetrachloroethane	16.449	131	4632	0.17	ppb(v#	1
76) Chlorobenzene	16.474	112	8831	0.19	ppb(v	99
77) Ethylbenzene	17.025	91	13919	0.18	ppb(v	99
78) m,p-Xylene	17.300	91	23073	0.39	ppb(v	96
79) Styrene	17.820	104	7796	0.17	ppb(v	98
80) Nonane	18.346	43	6914	0.18	ppb(v	96
81) o-Xylene	17.973	91	11023	0.18	ppb(v	98
82) Bromoform	17.373	173	6669	0.17	ppb(v	99
83) 1,1,2,2-Tetrachloroethane	17.967	83	9433	0.19	ppb(v	100
84) 1,2,3-Trichloropropane	18.162	75	6612	0.19	ppb(v	95
85) Isopropylbenzene	18.878	105	15075	0.18	ppb(v	100
86) Bromobenzene	18.988	156	4888	0.18	ppb(v	94
87) 2-Chlorotoluene	19.557	126	3667	0.17	ppb(v	82
88) n-Propylbenzene	19.625	120	3893	0.18	ppb(v	99
90) 4-Ethyltoluene	19.833	105	14653	0.18	ppb(v	99
91) 1,3,5-Trimethylbenzene	19.943	105	12234	0.18	ppb(v	99
92) alpha-Methylstyrene	20.163	118	5767	0.17	ppb(v	99
93) tert-Butylbenzene	20.487	134	2651	0.19	ppb(v	90
94) 1,2,4-Trimethylbenzene	20.499	105	12734	0.18	ppb(v	90
95) 1,3-Dichlorobenzene	20.689	146	8469	0.18	ppb(v	97
96) Benzyl Chloride	20.677	91	10190	0.16	ppb(v	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10670.D
Acq On : 2 Apr 2015 9:10 am
Operator : mikel1
Sample : IC419-0.2
Misc : MS82329,v5w419,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 06:48:36 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,4-Dichlorobenzene	20.781	146	8284	0.18	ppb(v	95
98)	sec-Butylbenzene	20.860	134	3271	0.18	ppb(v	97
99)	p-Isopropyltoluene	21.081	134	3636	0.18	ppb(v	96
100)	1,2-Dichlorobenzene	21.233	146	8077	0.19	ppb(v	97
101)	n-Butylbenzene	21.631	134	3298	0.18	ppb(v	93
102)	Hexachloroethane	22.090	201	4477	0.18	ppb(v	98
103)	1,2,4-Trichlorobenzene	23.387	180	5634	0.22	ppb(v	98
104)	Naphthalene	23.515	128	12390	0.23	ppb(v	98
105)	Hexachlorobutadiene	23.962	225	7344	0.27	ppb(v	100
107)	TVHC as equiv Pentane	5.964	TIC	14922m	0.21	ppb(v	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

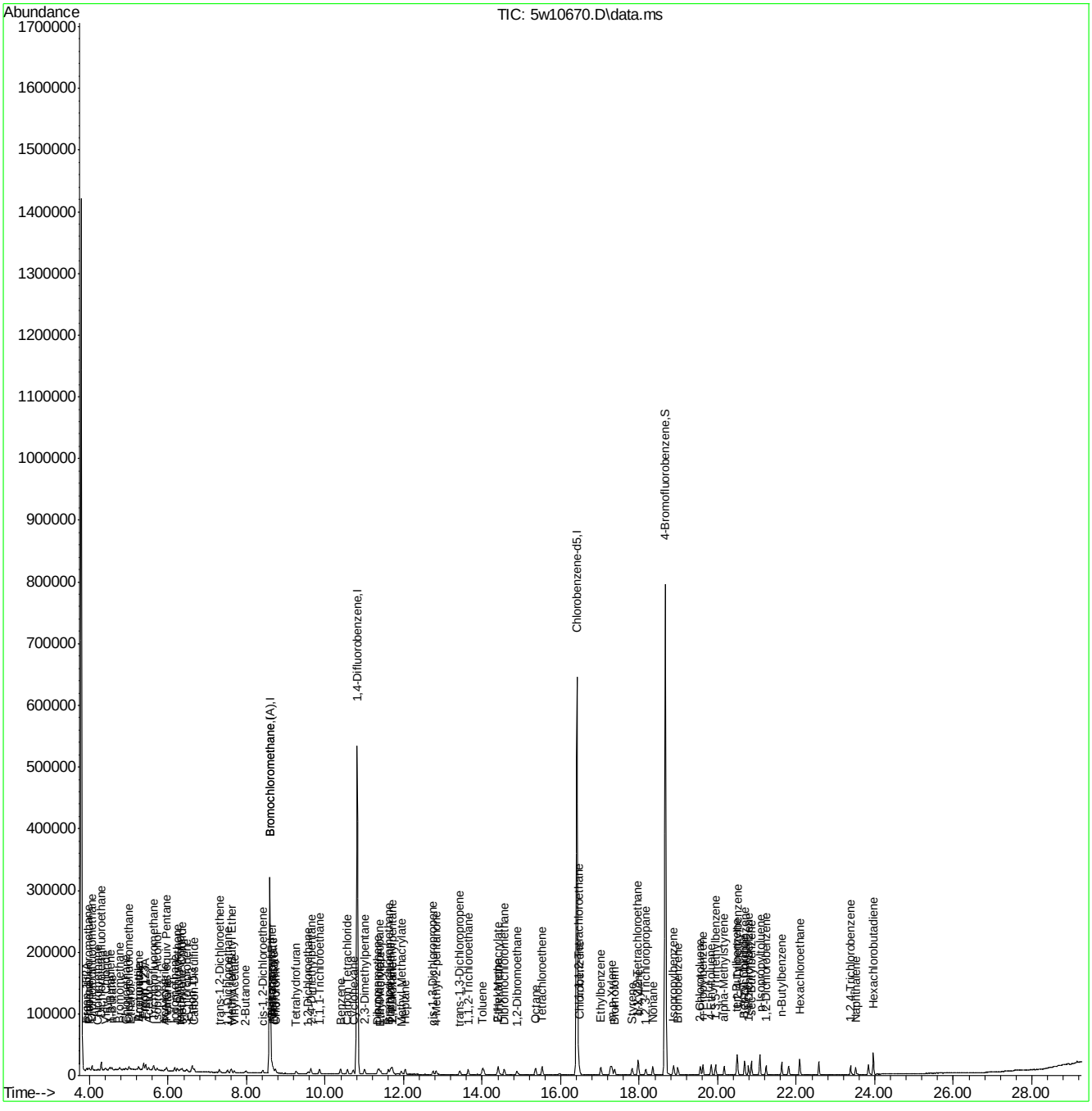
7.7.15

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10670.D
Acq On : 2 Apr 2015 9:10 am
Operator : mikel1
Sample : IC419-0.2
Misc : MS82329,v5w419,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 06:48:36 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration



Manual Integration Approval Summary

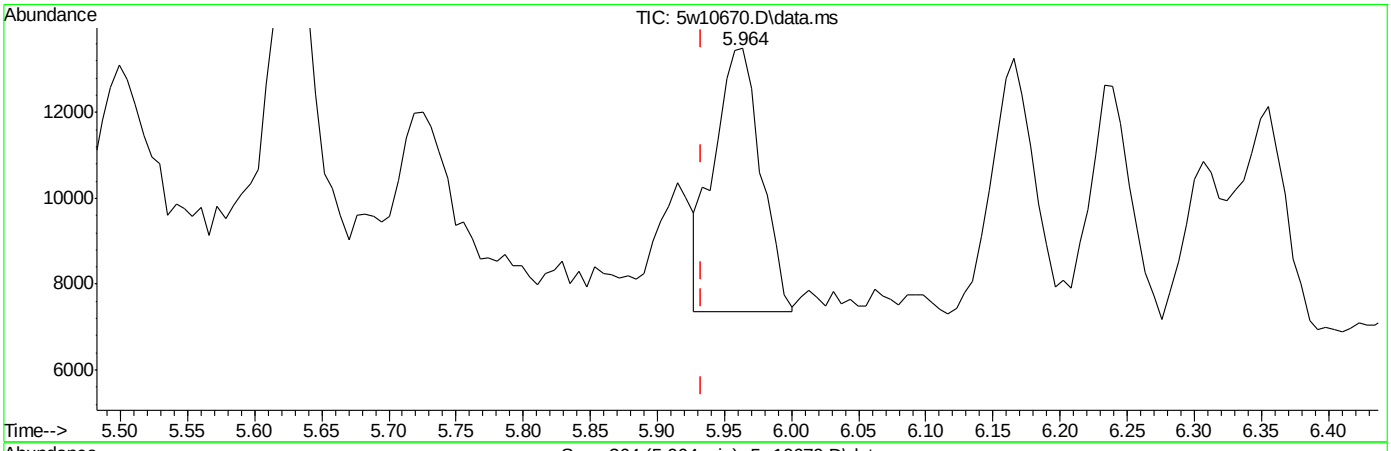
Sample Number:	V5W419-IC419	**Method:**	TO-15
Lab FileID:	5W10670.D	**Analyst approved:**	04/03/15 10:21 Michael Lee
Injection Time:	04/02/15 09:10	**Supervisor approved:**	04/03/15 16:45 Jessica Reitan-Chu

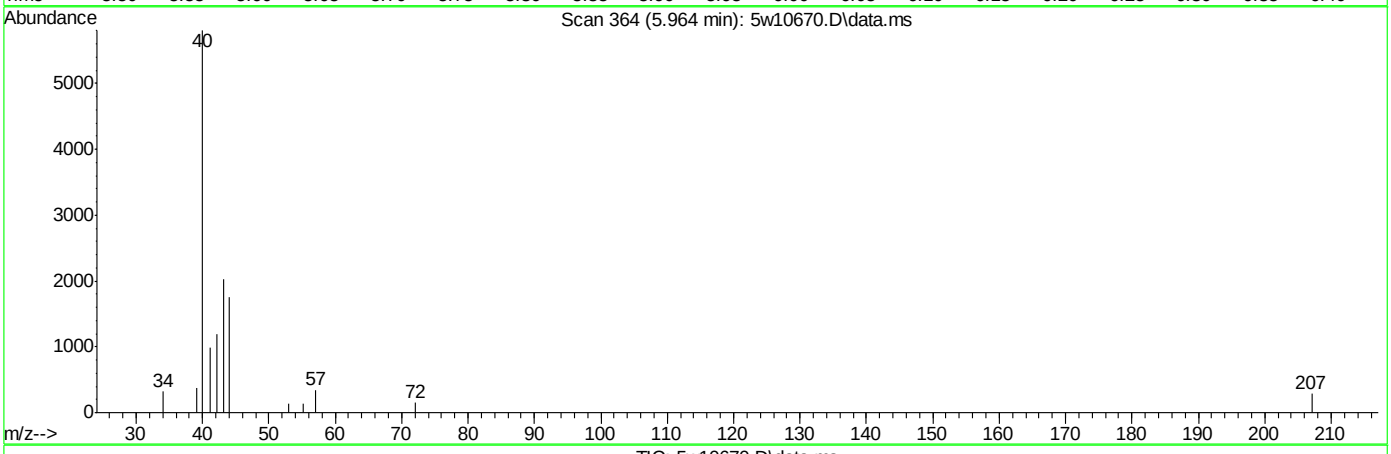
Parameter	CAS	Sig#	R.T. (min.)	Reason
TVHC As Equiv Pentane			5.96	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10670.D
Acq On : 2 Apr 2015 9:10 am
Operator : mikel1
Sample : IC419-0.2
Misc : MS82329,v5w419,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 06:45:05 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration





TIC: 5w10670.D\data.ms

(107) TVHC as equiv Pentane

5.964min (+0.031) 0.21ppb(v) m

response 14922

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Jessica Reitan-Chu 04/03/15 16:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10671.D
Acq On : 2 Apr 2015 9:52 am
Operator : mikel1
Sample : IC419-0.5
Misc : MS82329,v5w419,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 09:08:02 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.570	130	143660	10.00	ppb(v	0.00
53) 1,4-Difluorobenzene	10.803	114	551602	10.00	ppb(v	0.00
75) Chlorobenzene-d5	16.406	82	281353	10.00	ppb(v	0.00
106) Bromochloromethane (A)	8.570	130	143660	10.00	ppb(v	0.00
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.658	95	381327	10.19	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery	=	101.90%	
Target Compounds						Qvalue
3) Freon 152A	3.902	65	4416	0.47	ppb(v	99
4) Chlorodifluoromethane	3.945	67	1554	0.41	ppb(v	93
5) Propene	3.969	41	4523	0.43	ppb(v#	26
6) Dichlorodifluoromethane	4.036	85	17117	0.41	ppb(v	97
8) Chloromethane	4.183	50	5645	0.43	ppb(v	98
9) Dichlorotetrafluoroethane	4.269	85	16806	0.42	ppb(v	98
10) Vinyl Chloride	4.373	62	6692	0.42	ppb(v#	99
11) 1,3-Butadiene	4.495	54	4670	0.41	ppb(v	96
12) n-Butane	4.544	58	956	0.40	ppb(v#	66
13) Bromomethane	4.740	94	6717	0.43	ppb(v	98
14) Chloroethane	4.893	64	3287	0.42	ppb(v	97
15) Dichlorofluoromethane	4.972	67	14723	0.42	ppb(v	98
16) Acetonitrile	5.205	41	8412m	0.67	ppb(v	
17) Freon 123	5.346	83	16463	0.42	ppb(v	98
18) Freon 123A	5.401	117	9022	0.46	ppb(v	92
19) Bromoethene	5.217	106	6224	0.41	ppb(v	97
20) Trichlorofluoromethane	5.603	101	16708	0.42	ppb(v	99
21) Acetone	5.462	58	3493	0.49	ppb(v	96
22) Pentane	5.933	57	1554	0.40	ppb(v	96
24) Iodomethane	6.141	142	18005	0.42	ppb(v	99
25) Isopropyl Alcohol	5.682	45	14543	0.53	ppb(v	97
26) 1,1-Dichloroethene	6.208	61	10035	0.41	ppb(v	98
27) Freon 113	6.587	101	13937	0.42	ppb(v	99
28) Methylene Chloride	6.324	84	5957	0.42	ppb(v	94
29) Carbon Disulfide	6.630	76	19451	0.41	ppb(v	100
30) Ethanol	5.003	45	4098m	0.62	ppb(v	
31) Acrylonitrile	5.878	53	6044	0.49	ppb(v	97
32) 3-Chloropropene	6.447	76	2904	0.39	ppb(v	95
33) trans-1,2-Dichloroethene	7.279	61	9455	0.40	ppb(v	98
34) tert-Butyl Alcohol	6.269	59	14960	0.41	ppb(v	99
35) Methyl tert-Butyl Ether	7.572	73	17675	0.40	ppb(v	99
36) Vinyl Acetate	7.652	43	17809	0.44	ppb(v	100
37) 1,1-Dichloroethane	7.487	63	12075	0.41	ppb(v	98
38) 2-Butanone	7.933	72	3540	0.44	ppb(v	99
39) Hexane	8.619	57	10369	0.42	ppb(v	81
40) cis-1,2-Dichloroethene	8.386	61	9225	0.41	ppb(v	96
41) Di-isopropyl Ether	8.625	45	23617	0.40	ppb(v	98
42) Ethyl Acetate	8.655	61	2417	0.42	ppb(v	82
43) Methyl Acrylate	8.637	55	14124	0.44	ppb(v	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10671.D
Acq On : 2 Apr 2015 9:52 am
Operator : mikel1
Sample : IC419-0.5
Misc : MS82329,v5w419,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 09:08:02 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Chloroform	8.710	83	14891	0.41	ppb(v	99
45) 2,4-Dimethylpentane	9.616	57	11477	0.39	ppb(v	99
46) Tetrahydrofuran	9.224	72	3281	0.41	ppb(v	97
47) 1,1,1-Trichloroethane	9.836	97	13698	0.41	ppb(v	98
48) 1,2-Dichloroethane	9.548	62	8914	0.41	ppb(v	100
49) Benzene	10.374	78	21628	0.40	ppb(v	99
50) Carbon Tetrachloride	10.552	117	14291	0.40	ppb(v	98
51) Cyclohexane	10.699	56	10305	0.41	ppb(v	99
52) 2,3-Dimethylpentane	10.992	71	4407	0.40	ppb(v	97
54) 2,2,4-Trimethylpentane	11.690	57	32513	0.39	ppb(v	99
55) Heptane	12.026	71	6492	0.39	ppb(v	96
56) Trichloroethene	11.647	95	9736	0.40	ppb(v	98
57) 1,2-Dichloropropane	11.359	63	8129	0.40	ppb(v	96
58) Dibromomethane	11.329	174	9189	0.43	ppb(v	93
59) Ethyl Acrylate	11.390	55	16947	0.43	ppb(v	98
60) Methyl Methacrylate	11.922	69	7507	0.41	ppb(v	96
61) 1,4-Dioxane	11.696	88	6563	0.53	ppb(v#	66
62) Bromodichloromethane	11.592	83	16054	0.40	ppb(v	98
63) cis-1,3-Dichloropropene	12.736	75	12772	0.40	ppb(v	97
64) 4-Methyl-2-pentanone	12.809	58	6294	0.39	ppb(v	99
65) trans-1,3-Dichloropropene	13.415	75	11805	0.41	ppb(v	97
66) Toluene	13.996	91	25881	0.41	ppb(v	99
67) 1,1,2-Trichloroethane	13.629	97	9494	0.42	ppb(v	98
68) 2-Hexanone	14.381	58	10387	0.46	ppb(v	99
69) Ethyl Methacrylate	14.394	69	13064	0.40	ppb(v	99
70) Dibromochloromethane	14.553	129	16590	0.40	ppb(v	98
71) Tetrachloroethene	15.519	166	12726	0.41	ppb(v	97
72) 1,2-Dibromoethane	14.883	107	15647	0.42	ppb(v	99
73) Octane	15.348	43	14698	0.37	ppb(v	100
74) 1,1,1,2-Tetrachloroethane	16.443	131	11067	0.40	ppb(v#	1
76) Chlorobenzene	16.468	112	20868	0.46	ppb(v	98
77) Ethylbenzene	17.018	91	33601	0.44	ppb(v	99
78) m,p-Xylene	17.287	91	54942	0.94	ppb(v	97
79) Styrene	17.813	104	18654	0.42	ppb(v	98
80) Nonane	18.346	43	15719	0.41	ppb(v	98
81) o-Xylene	17.973	91	26060	0.44	ppb(v	98
82) Bromoform	17.367	173	16002	0.43	ppb(v	99
83) 1,1,2,2-Tetrachloroethane	17.966	83	22512	0.46	ppb(v	100
84) 1,2,3-Trichloropropane	18.162	75	15824	0.47	ppb(v	99
85) Isopropylbenzene	18.872	105	36683	0.45	ppb(v	100
86) Bromobenzene	18.982	156	11754	0.44	ppb(v	95
87) 2-Chlorotoluene	19.551	126	9086	0.44	ppb(v	98
88) n-Propylbenzene	19.618	120	9395	0.43	ppb(v	98
90) 4-Ethyltoluene	19.826	105	35301	0.43	ppb(v	99
91) 1,3,5-Trimethylbenzene	19.942	105	29640	0.44	ppb(v	99
92) alpha-Methylstyrene	20.163	118	14208	0.42	ppb(v	99
93) tert-Butylbenzene	20.487	134	6118	0.45	ppb(v	98
94) 1,2,4-Trimethylbenzene	20.499	105	30431	0.44	ppb(v	96
95) 1,3-Dichlorobenzene	20.689	146	20382	0.45	ppb(v	98
96) Benzyl Chloride	20.677	91	25388	0.42	ppb(v	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10671.D
Acq On : 2 Apr 2015 9:52 am
Operator : mikel1
Sample : IC419-0.5
Misc : MS82329,v5w419,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 09:08:02 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration

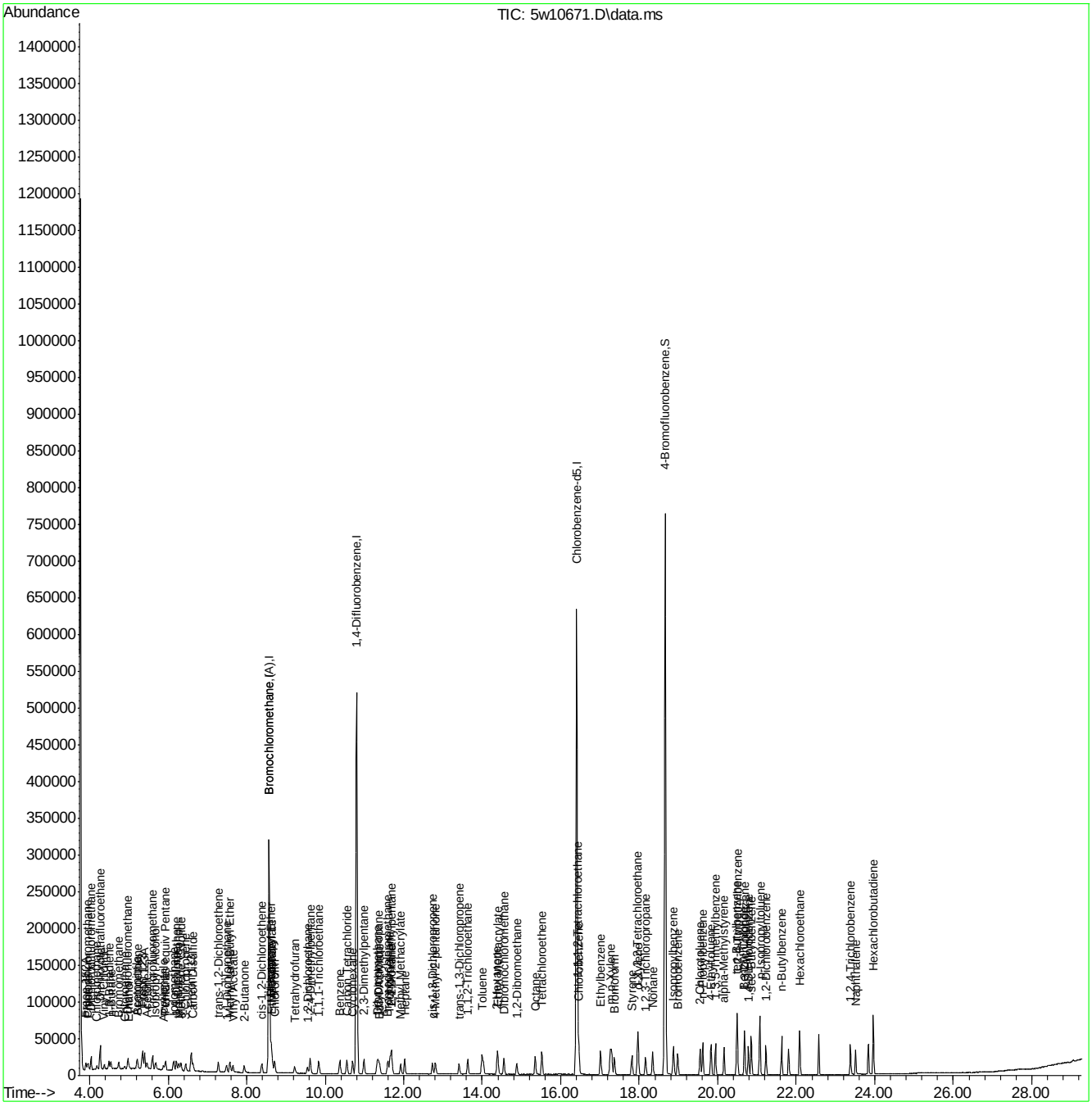
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,4-Dichlorobenzene	20.781	146	19842	0.45	ppb(v	96
98)	sec-Butylbenzene	20.860	134	7778	0.45	ppb(v	94
99)	p-Isopropyltoluene	21.080	134	8699	0.44	ppb(v	99
100)	1,2-Dichlorobenzene	21.227	146	19347	0.46	ppb(v	96
101)	n-Butylbenzene	21.631	134	7883	0.44	ppb(v	95
102)	Hexachloroethane	22.090	201	10334	0.42	ppb(v	95
103)	1,2,4-Trichlorobenzene	23.387	180	14100	0.55	ppb(v	99
104)	Naphthalene	23.515	128	31498	0.59	ppb(v	99
105)	Hexachlorobutadiene	23.962	225	16206	0.61	ppb(v	99
107)	TVHC as equiv Pentane	5.933	TIC	31595m	0.46	ppb(v	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10671.D
Acq On : 2 Apr 2015 9:52 am
Operator : mikel1
Sample : IC419-0.5
Misc : MS82329,v5w419,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 09:08:02 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration



Manual Integration Approval Summary

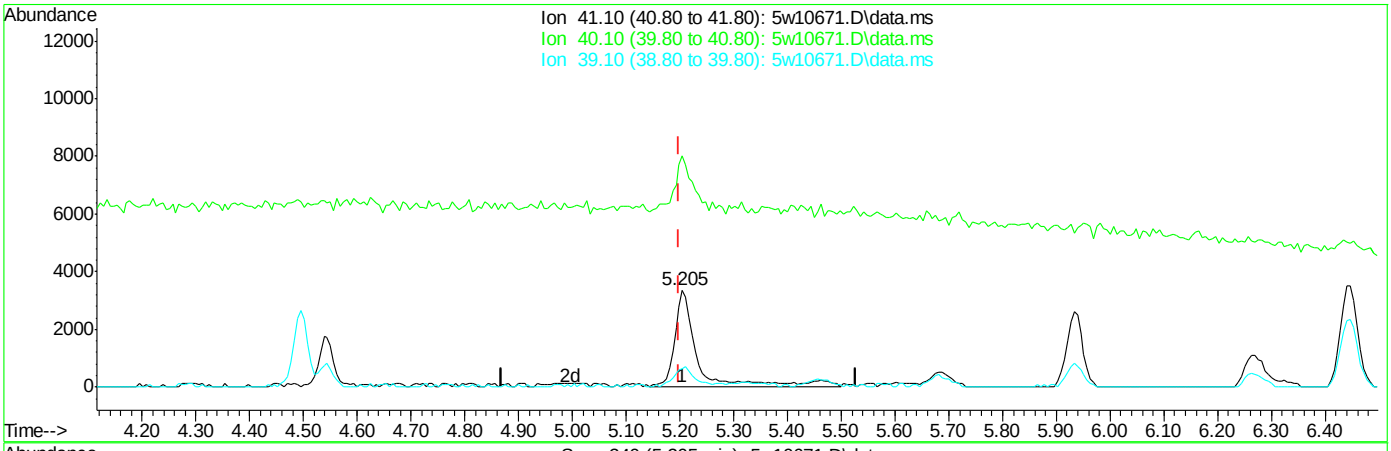
Sample Number:	V5W419-IC419	**Method:**	TO-15
Lab FileID:	5W10671.D	**Analyst approved:**	04/03/15 10:21 Michael Lee
Injection Time:	04/02/15 09:52	**Supervisor approved:**	04/03/15 16:45 Jessica Reitan-Chu

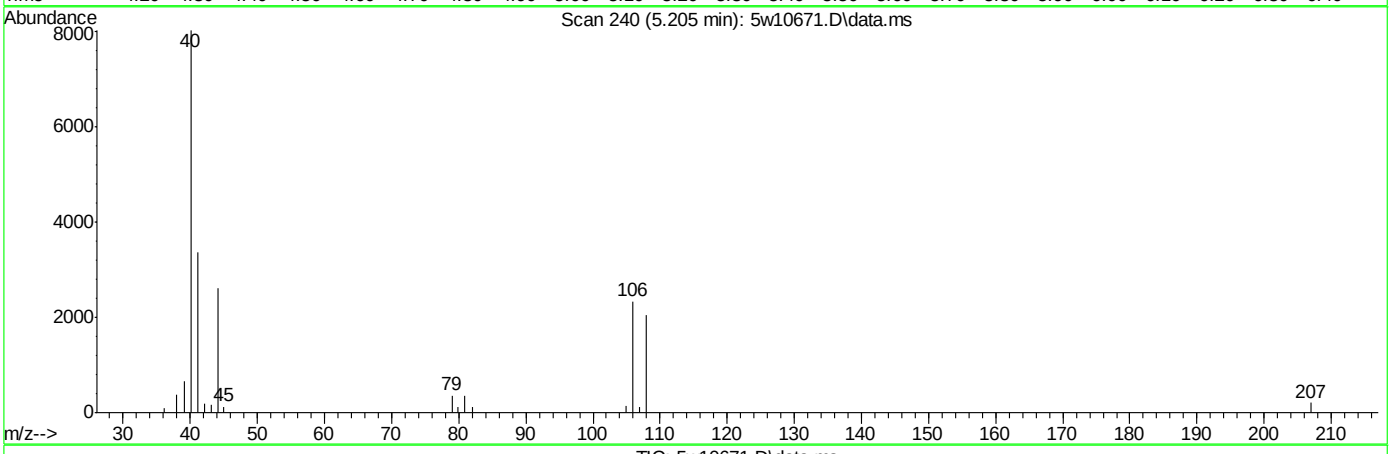
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethanol	64-17-5		5.00	Poor instrument integration
Acetonitrile	75-05-8		5.20	Poor instrument integration
TVHC As Equiv Pentane			5.93	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10671.D
Acq On : 2 Apr 2015 9:52 am
Operator : mikel1
Sample : IC419-0.5
Misc : MS82329,v5w419,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 02 16:13:08 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Apr 02 16:04:22 2015
Response via : Initial Calibration





TIC: 5w10671.D\data.ms

(16) Acetonitrile

5.205min (+0.006) 0.82ppb(v)

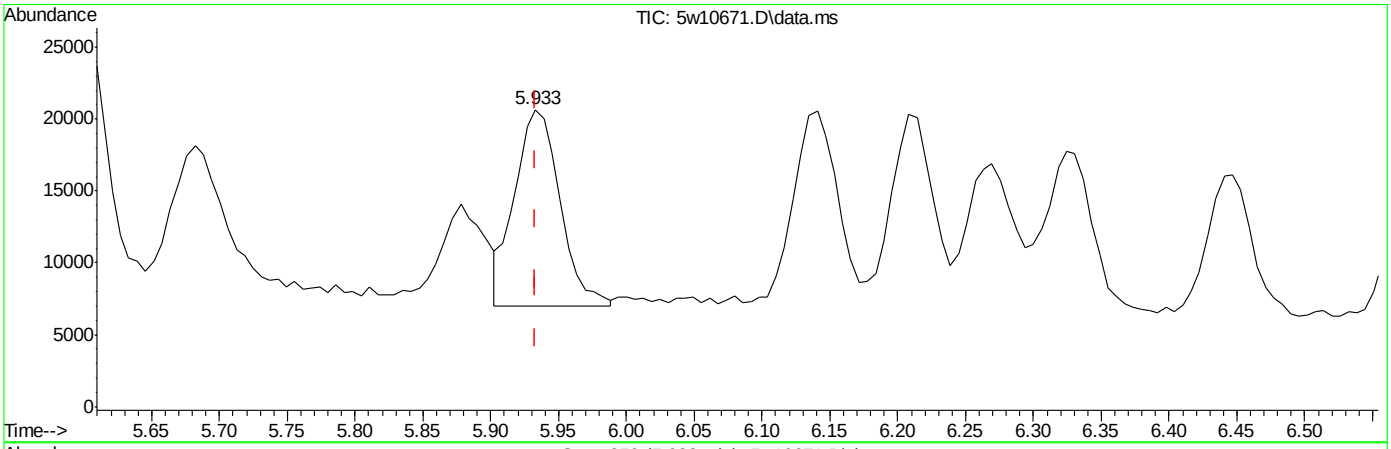
response 10309

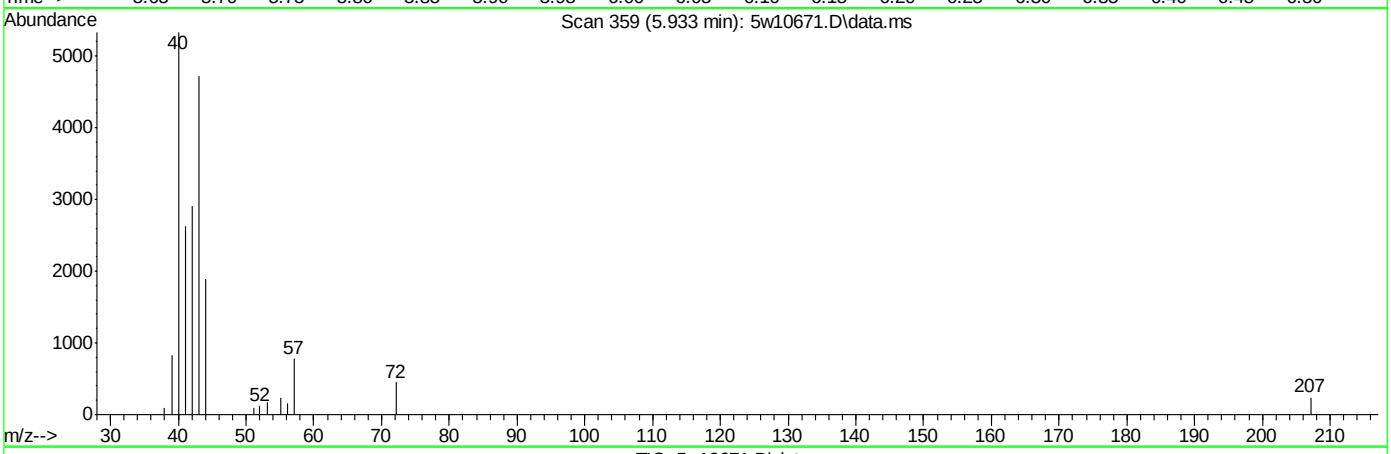
Ion	Exp%	Act%
41.10	100	100
40.10	53.80	238.42#
39.10	19.60	19.36
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10671.D
Acq On : 2 Apr 2015 9:52 am
Operator : mikel1
Sample : IC419-0.5
Misc : MS82329,v5w419,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 06:45:08 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration





TIC: 5w10671.D\data.ms

(107) TVHC as equiv Pentane

5.933min (-0.000) 0.46ppb(v) m

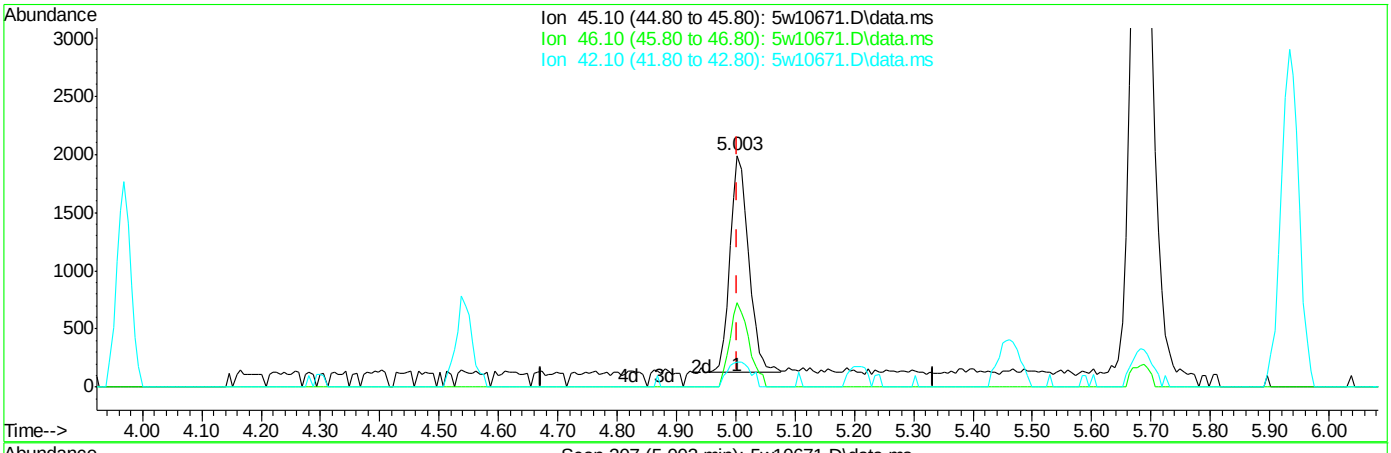
response 31595

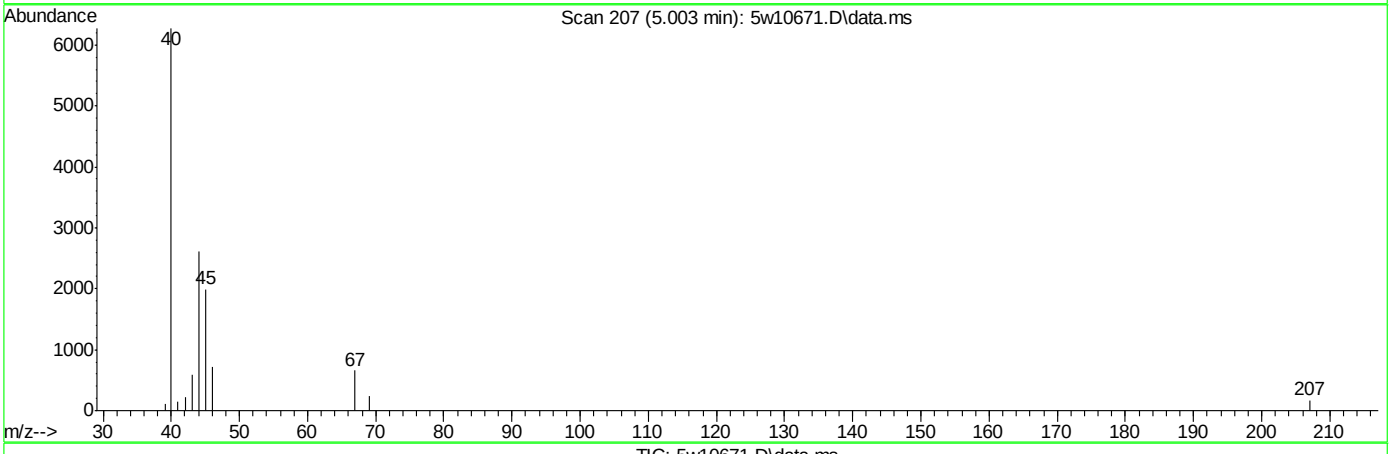
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10671.D
Acq On : 2 Apr 2015 9:52 am
Operator : mikel1
Sample : IC419-0.5
Misc : MS82329,v5w419,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 06:47:58 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration





TIC: 5w10671.D\data.ms

(30) Ethanol

5.003min (-0.000) 0.62ppb(v) m

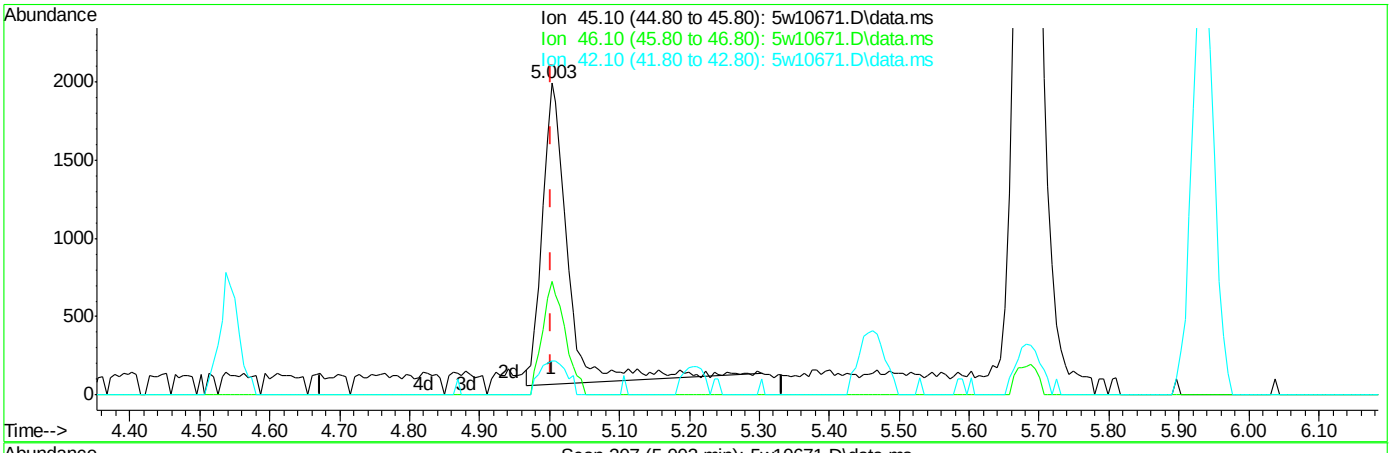
response 4098

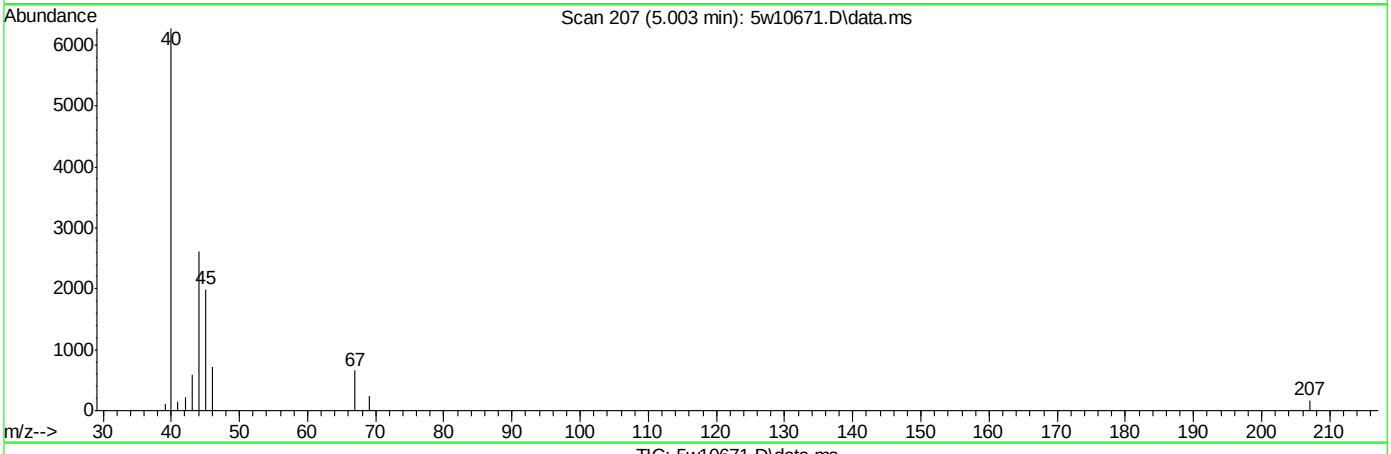
Ion	Exp%	Act%
45.10	100	100
46.10	35.10	36.31
42.10	7.80	10.95#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\Old-V5W\v5w419\
Data File : 5w10671.D
Acq On : 2 Apr 2015 9:52 am
Operator : mikel1
Sample : IC419-0.5
Misc : MS82329,v5w419,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 09:49:10 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 09:14:40 2015
Response via : Initial Calibration





TIC: 5w10671.D\data.ms

(30) Ethanol

5.003min (-0.000) 0.71ppb(v)

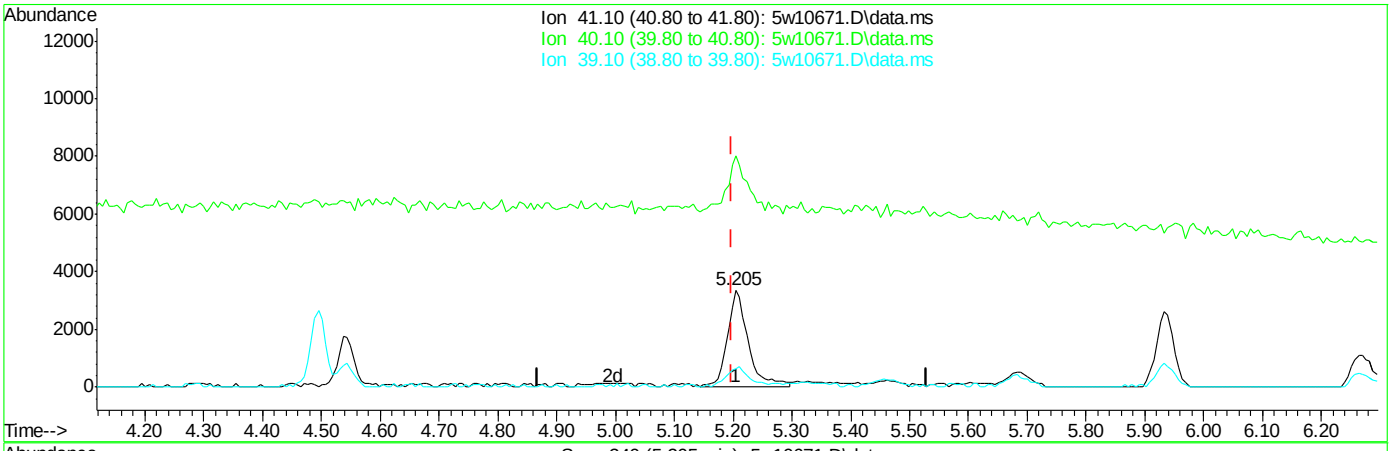
response 4843

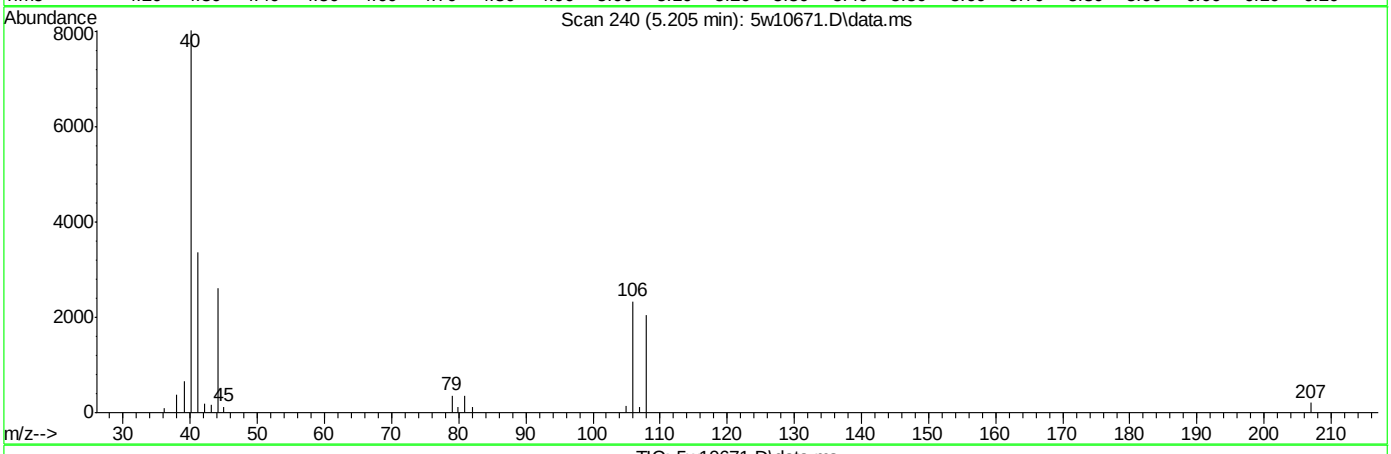
Ion	Exp%	Act%
45.10	100	100
46.10	35.10	36.31
42.10	7.80	10.95#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10671.D
Acq On : 2 Apr 2015 9:52 am
Operator : mikel1
Sample : IC419-0.5
Misc : MS82329,v5w419,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 09:08:02 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration





TIC: 5w10671.D\data.ms

(16) Acetonitrile

5.205min (+0.006) 0.67ppb(v) m

response 8412

Ion	Exp%	Act%
41.10	100	100
40.10	53.80	238.42#
39.10	19.60	19.36
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10672.D
Acq On : 2 Apr 2015 10:33 am
Operator : mikel1
Sample : IC419-5
Misc : MS82329,v5w419,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 03 06:46:58 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.576	130	135816	10.00	ppb(v	0.00
53) 1,4-Difluorobenzene	10.803	114	523140	10.00	ppb(v	0.00
75) Chlorobenzene-d5	16.407	82	276865	10.00	ppb(v	0.00
106) Bromochloromethane (A)	8.576	130	135816	10.00	ppb(v	0.00
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.658	95	367446	9.98	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 99.80%			
Target Compounds						Qvalue
3) Freon 152A	3.908	65	40319	4.55	ppb(v	99
4) Chlorodifluoromethane	3.945	67	16316	4.54	ppb(v	98
5) Propene	3.975	41	45314	4.54	ppb(v#	91
6) Dichlorodifluoromethane	4.043	85	175957	4.51	ppb(v	100
8) Chloromethane	4.183	50	57234	4.58	ppb(v	100
9) Dichlorotetrafluoroethane	4.269	85	173666	4.55	ppb(v	94
10) Vinyl Chloride	4.379	62	68974	4.58	ppb(v	99
11) 1,3-Butadiene	4.502	54	48516	4.56	ppb(v	99
12) n-Butane	4.551	58	10130	4.49	ppb(v#	95
13) Bromomethane	4.746	94	67439	4.56	ppb(v	99
14) Chloroethane	4.899	64	33728	4.58	ppb(v	99
15) Dichlorofluoromethane	4.979	67	150640	4.53	ppb(v	99
16) Acetonitrile	5.205	41	53939	4.55	ppb(v#	73
17) Freon 123	5.352	83	168431	4.55	ppb(v	99
18) Freon 123A	5.401	117	83767	4.56	ppb(v	89
19) Bromoethene	5.217	106	65278	4.52	ppb(v	98
20) Trichlorofluoromethane	5.603	101	169864	4.50	ppb(v	100
21) Acetone	5.450	58	30245	4.48	ppb(v	97
22) Pentane	5.939	57	16378	4.51	ppb(v	98
24) Iodomethane	6.141	142	183332	4.52	ppb(v	100
25) Isopropyl Alcohol	5.676	45	116828	4.48	ppb(v	96
26) 1,1-Dichloroethene	6.215	61	103382	4.51	ppb(v	99
27) Freon 113	6.588	101	142856	4.54	ppb(v	96
28) Methylene Chloride	6.331	84	61069	4.51	ppb(v	96
29) Carbon Disulfide	6.637	76	205557	4.56	ppb(v	99
30) Ethanol	5.003	45	28224	4.51	ppb(v	99
31) Acrylonitrile	5.878	53	51629	4.46	ppb(v	99
32) 3-Chloropropene	6.447	76	31322	4.43	ppb(v	96
33) trans-1,2-Dichloroethene	7.279	61	100337	4.49	ppb(v	96
34) tert-Butyl Alcohol	6.251	59	152721	4.43	ppb(v	99
35) Methyl tert-Butyl Ether	7.560	73	186081	4.50	ppb(v	99
36) Vinyl Acetate	7.646	43	170396	4.40	ppb(v	99
37) 1,1-Dichloroethane	7.493	63	126291	4.51	ppb(v	100
38) 2-Butanone	7.921	72	33696	4.44	ppb(v	97
39) Hexane	8.619	57	105820	4.48	ppb(v	89
40) cis-1,2-Dichloroethene	8.386	61	95053	4.49	ppb(v	97
41) Di-isopropyl Ether	8.619	45	246108	4.46	ppb(v	98
42) Ethyl Acetate	8.649	61	24109	4.38	ppb(v	84
43) Methyl Acrylate	8.631	55	133313	4.43	ppb(v	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10672.D
Acq On : 2 Apr 2015 10:33 am
Operator : mikel1
Sample : IC419-5
Misc : MS82329,v5w419,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 03 06:46:58 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Chloroform	8.717	83	154478	4.51	ppb(v	99
45) 2,4-Dimethylpentane	9.616	57	122808	4.41	ppb(v	99
46) Tetrahydrofuran	9.194	72	33843	4.46	ppb(v	98
47) 1,1,1-Trichloroethane	9.842	97	143482	4.51	ppb(v	99
48) 1,2-Dichloroethane	9.549	62	90926	4.44	ppb(v	99
49) Benzene	10.375	78	225401	4.46	ppb(v	99
50) Carbon Tetrachloride	10.552	117	151276	4.50	ppb(v	99
51) Cyclohexane	10.699	56	106275	4.47	ppb(v	99
52) 2,3-Dimethylpentane	10.992	71	46598	4.48	ppb(v	99
54) 2,2,4-Trimethylpentane	11.690	57	355008	4.54	ppb(v	99
55) Heptane	12.026	71	71162	4.47	ppb(v	99
56) Trichloroethene	11.653	95	104260	4.55	ppb(v	96
57) 1,2-Dichloropropane	11.360	63	87589	4.58	ppb(v	98
58) Dibromomethane	11.329	174	93098	4.57	ppb(v	91
59) Ethyl Acrylate	11.384	55	165889	4.46	ppb(v	100
60) Methyl Methacrylate	11.916	69	77993	4.48	ppb(v	98
61) 1,4-Dioxane	11.672	88	52754	4.48	ppb(v#	67
62) Bromodichloromethane	11.598	83	174070	4.53	ppb(v	99
63) cis-1,3-Dichloropropene	12.730	75	135635	4.51	ppb(v	98
64) 4-Methyl-2-pentanone	12.797	58	68043	4.43	ppb(v	98
65) trans-1,3-Dichloropropene	13.409	75	121361	4.45	ppb(v	99
66) Toluene	13.996	91	277873	4.60	ppb(v	99
67) 1,1,2-Trichloroethane	13.629	97	98280	4.57	ppb(v	99
68) 2-Hexanone	14.369	58	95435	4.44	ppb(v	97
69) Ethyl Methacrylate	14.394	69	138689	4.47	ppb(v	99
70) Dibromochloromethane	14.553	129	177826	4.53	ppb(v	99
71) Tetrachloroethene	15.520	166	134557	4.59	ppb(v	98
72) 1,2-Dibromoethane	14.883	107	159543	4.54	ppb(v	99
73) Octane	15.348	43	168184	4.49	ppb(v	99
74) 1,1,1,2-Tetrachloroethane	16.449	131	118516	4.56	ppb(v	98
76) Chlorobenzene	16.468	112	216753	4.85	ppb(v	97
77) Ethylbenzene	17.018	91	361064	4.84	ppb(v	99
78) m,p-Xylene	17.288	91	590592	10.28	ppb(v	98
79) Styrene	17.814	104	207424	4.72	ppb(v	99
80) Nonane	18.346	43	179154	4.78	ppb(v	97
81) o-Xylene	17.967	91	280685	4.79	ppb(v	98
82) Bromoform	17.367	173	173831	4.70	ppb(v	99
83) 1,1,2,2-Tetrachloroethane	17.961	83	227164	4.75	ppb(v	99
84) 1,2,3-Trichloropropane	18.156	75	158211	4.77	ppb(v	98
85) Isopropylbenzene	18.872	105	387581	4.82	ppb(v	99
86) Bromobenzene	18.982	156	126470	4.84	ppb(v	93
87) 2-Chlorotoluene	19.551	126	96512	4.78	ppb(v	93
88) n-Propylbenzene	19.618	120	102029	4.78	ppb(v	99
90) 4-Ethyltoluene	19.826	105	380794	4.76	ppb(v	99
91) 1,3,5-Trimethylbenzene	19.943	105	314198	4.75	ppb(v	99
92) alpha-Methylstyrene	20.163	118	156708	4.72	ppb(v	99
93) tert-Butylbenzene	20.487	134	64046	4.76	ppb(v	92
94) 1,2,4-Trimethylbenzene	20.499	105	322519	4.75	ppb(v	96
95) 1,3-Dichlorobenzene	20.689	146	208719	4.71	ppb(v	97
96) Benzyl Chloride	20.671	91	269999	4.51	ppb(v	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10672.D
Acq On : 2 Apr 2015 10:33 am
Operator : mikel1
Sample : IC419-5
Misc : MS82329,v5w419,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 03 06:46:58 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,4-Dichlorobenzene	20.781	146	204463	4.72	ppb(v	97
98)	sec-Butylbenzene	20.860	134	81041	4.72	ppb(v	99
99)	p-Isopropyltoluene	21.081	134	91233	4.65	ppb(v	99
100)	1,2-Dichlorobenzene	21.227	146	197823	4.74	ppb(v	97
101)	n-Butylbenzene	21.625	134	81822	4.62	ppb(v	90
102)	Hexachloroethane	22.090	201	112894	4.65	ppb(v	96
103)	1,2,4-Trichlorobenzene	23.381	180	110430	4.41	ppb(v	98
104)	Naphthalene	23.509	128	227861	4.33	ppb(v	99
105)	Hexachlorobutadiene	23.962	225	118980	4.55	ppb(v	98
107)	TVHC as equiv Pentane	5.939	TIC	291938	4.51	ppb(v	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

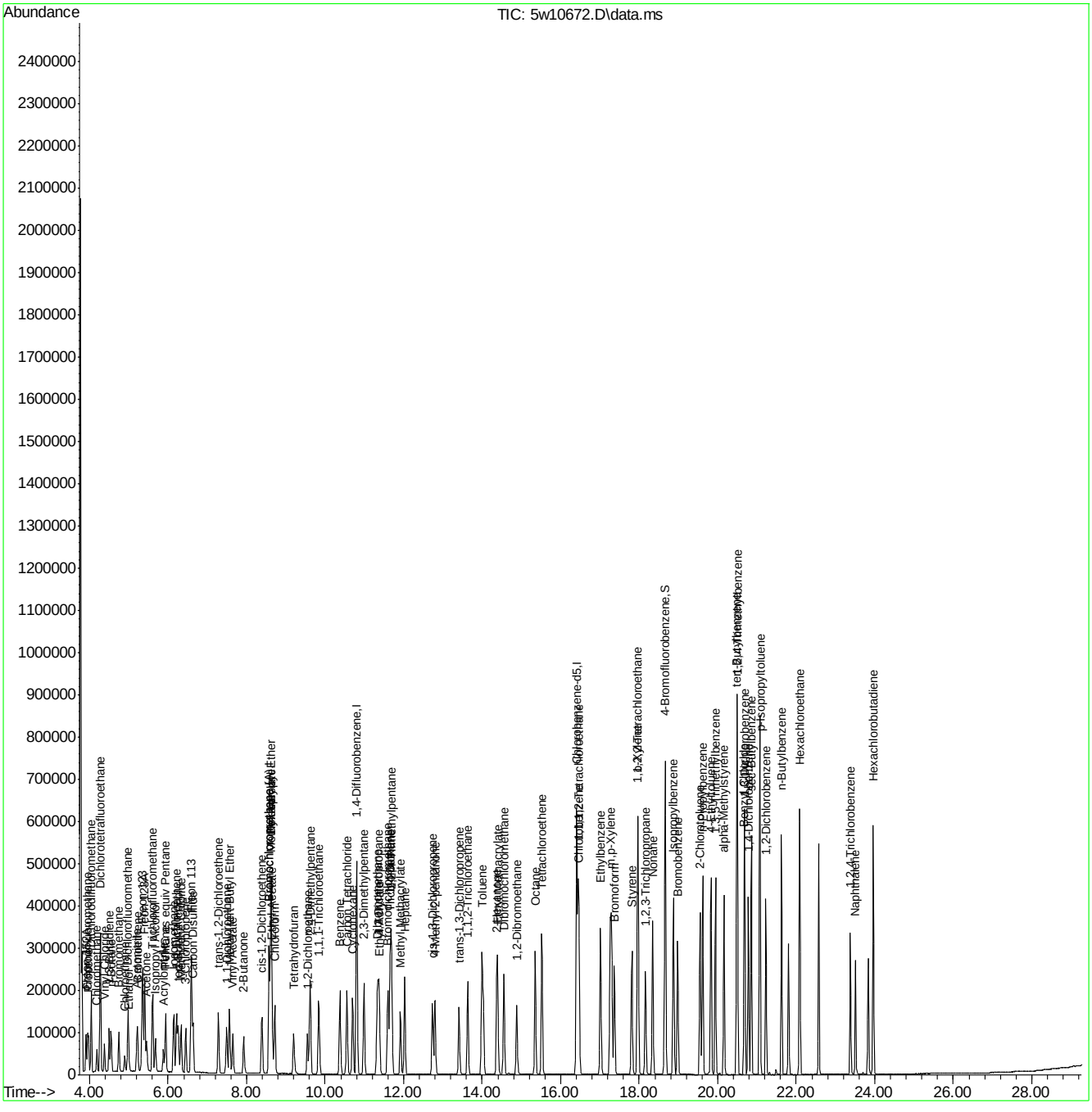
7.7.17

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10672.D
Acq On : 2 Apr 2015 10:33 am
Operator : mikel1
Sample : IC419-5
Misc : MS82329,v5w419,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 03 06:46:58 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10673.D
Acq On : 2 Apr 2015 11:15 am
Operator : mikel1
Sample : ICC419-10
Misc : MS82329,v5w419,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 03 06:41:57 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Apr 02 16:18:52 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.576	130	125305	10.00	ppb(v	0.00
53) 1,4-Difluorobenzene	10.803	114	487477	10.00	ppb(v	0.00
75) Chlorobenzene-d5	16.407	82	274874	10.00	ppb(v	0.00
106) Bromochloromethane (A)	8.576	130	125305	10.00	ppb(v	0.00
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.664	95	365422	10.19	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 101.90%			
Target Compounds						Qvalue
3) Freon 152A	3.902	65	81820	10.55	ppb(v	97
4) Chlorodifluoromethane	3.945	67	33188	11.24	ppb(v	99
5) Propene	3.969	41	92037	10.21	ppb(v#	95
6) Dichlorodifluoromethane	4.037	85	359928	11.13	ppb(v	99
8) Chloromethane	4.183	50	115324	11.01	ppb(v	99
9) Dichlorotetrafluoroethane	4.269	85	352189	11.10	ppb(v	97
10) Vinyl Chloride	4.373	62	138924	11.07	ppb(v	99
11) 1,3-Butadiene	4.495	54	98236	11.09	ppb(v	98
12) n-Butane	4.544	58	20838	11.63	ppb(v#	94
13) Bromomethane	4.740	94	136446	10.65	ppb(v	99
14) Chloroethane	4.893	64	67981	11.09	ppb(v	99
15) Dichlorofluoromethane	4.973	67	306475	11.02	ppb(v	100
16) Acetonitrile	5.199	41	109380	9.84	ppb(v	87
17) Freon 123	5.346	83	341393	11.07	ppb(v	100
18) Freon 123A	5.401	117	169507	10.62	ppb(v	92
19) Bromoethene	5.217	106	133158	11.24	ppb(v	97
20) Trichlorofluoromethane	5.603	101	347885	11.20	ppb(v	100
21) Acetone	5.444	58	62226	10.60	ppb(v	97
22) Pentane	5.933	57	33497	11.14	ppb(v	94
24) Iodomethane	6.141	142	373818	11.14	ppb(v	100
25) Isopropyl Alcohol	5.676	45	240420	10.40	ppb(v	95
26) 1,1-Dichloroethene	6.208	61	211329	11.08	ppb(v	97
27) Freon 113	6.588	101	290320	11.11	ppb(v	97
28) Methylene Chloride	6.331	84	124970	10.74	ppb(v	95
29) Carbon Disulfide	6.637	76	416351	11.23	ppb(v	99
30) Ethanol	5.003	45	57676	9.48	ppb(v	99
31) Acrylonitrile	5.878	53	106849	10.32	ppb(v	99
32) 3-Chloropropene	6.447	76	65272	11.07	ppb(v	96
33) trans-1,2-Dichloroethene	7.279	61	206157	11.25	ppb(v	96
34) tert-Butyl Alcohol	6.257	59	317786	10.91	ppb(v	98
35) Methyl tert-Butyl Ether	7.560	73	381929	11.35	ppb(v	99
36) Vinyl Acetate	7.646	43	356974	10.64	ppb(v	99
37) 1,1-Dichloroethane	7.493	63	258572	11.14	ppb(v	100
38) 2-Butanone	7.921	72	69949	10.74	ppb(v	98
39) Hexane	8.619	57	217690	10.38	ppb(v	90
40) cis-1,2-Dichloroethene	8.386	61	195463	11.17	ppb(v	97
41) Di-isopropyl Ether	8.619	45	508878	11.37	ppb(v	99
42) Ethyl Acetate	8.649	61	50739	11.12	ppb(v	84
43) Methyl Acrylate	8.631	55	277482	10.77	ppb(v	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10673.D
Acq On : 2 Apr 2015 11:15 am
Operator : mikel1
Sample : ICC419-10
Misc : MS82329,v5w419,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 03 06:41:57 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Apr 02 16:18:52 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Chloroform	8.717	83	315800	11.21	ppb(v	99
45) 2,4-Dimethylpentane	9.616	57	257043	11.36	ppb(v	98
46) Tetrahydrofuran	9.188	72	70021	11.01	ppb(v	100
47) 1,1,1-Trichloroethane	9.842	97	293680	11.16	ppb(v	99
48) 1,2-Dichloroethane	9.549	62	189049	11.45	ppb(v	99
49) Benzene	10.381	78	465974	11.22	ppb(v	100
50) Carbon Tetrachloride	10.552	117	310068	11.22	ppb(v	100
51) Cyclohexane	10.699	56	219219	11.08	ppb(v	99
52) 2,3-Dimethylpentane	10.992	71	95863	11.63	ppb(v	99
54) 2,2,4-Trimethylpentane	11.690	57	729292	11.22	ppb(v	100
55) Heptane	12.026	71	148250	11.45	ppb(v	99
56) Trichloroethene	11.653	95	213393	11.03	ppb(v	96
57) 1,2-Dichloropropane	11.359	63	178228	11.19	ppb(v	98
58) Dibromomethane	11.329	174	189903	10.89	ppb(v	89
59) Ethyl Acrylate	11.384	55	346726	10.68	ppb(v	99
60) Methyl Methacrylate	11.916	69	162317	10.81	ppb(v	99
61) 1,4-Dioxane	11.671	88	109845	10.05	ppb(v#	73
62) Bromodichloromethane	11.604	83	358081	11.24	ppb(v	100
63) cis-1,3-Dichloropropene	12.736	75	280288	11.28	ppb(v	98
64) 4-Methyl-2-pentanone	12.791	58	142995	10.99	ppb(v	99
65) trans-1,3-Dichloropropene	13.415	75	254176	11.40	ppb(v	99
66) Toluene	13.996	91	562531	11.01	ppb(v	98
67) 1,1,2-Trichloroethane	13.635	97	200216	11.22	ppb(v	99
68) 2-Hexanone	14.369	58	200458	10.48	ppb(v	97
69) Ethyl Methacrylate	14.394	69	288980	10.82	ppb(v	100
70) Dibromochloromethane	14.553	129	365921	11.09	ppb(v	99
71) Tetrachloroethene	15.526	166	273302	10.98	ppb(v	98
72) 1,2-Dibromoethane	14.883	107	327124	11.19	ppb(v	100
73) Octane	15.354	43	348941	11.01	ppb(v	99
74) 1,1,1,2-Tetrachloroethane	16.449	131	242316	11.29	ppb(v	100
76) Chlorobenzene	16.468	112	443262	10.77	ppb(v	97
77) Ethylbenzene	17.018	91	740535	11.08	ppb(v	99
78) m,p-Xylene	17.294	91	1141262	21.29	ppb(v	99
79) Styrene	17.814	104	436215	11.74	ppb(v	99
80) Nonane	18.346	43	372079	10.98	ppb(v	97
81) o-Xylene	17.973	91	582334	11.16	ppb(v	98
82) Bromoform	17.367	173	367578	11.32	ppb(v	100
83) 1,1,2,2-Tetrachloroethane	17.960	83	474998	10.96	ppb(v	98
84) 1,2,3-Trichloropropane	18.162	75	329636	11.00	ppb(v	99
85) Isopropylbenzene	18.872	105	798675	11.13	ppb(v	99
86) Bromobenzene	18.982	156	259245	11.05	ppb(v	92
87) 2-Chlorotoluene	19.557	126	200629	11.30	ppb(v	96
88) n-Propylbenzene	19.618	120	212080	11.47	ppb(v	99
90) 4-Ethyltoluene	19.832	105	794952	11.47	ppb(v	99
91) 1,3,5-Trimethylbenzene	19.943	105	657363	11.18	ppb(v	99
92) alpha-Methylstyrene	20.163	118	329602	11.82	ppb(v	98
93) tert-Butylbenzene	20.487	134	133493	11.20	ppb(v	94
94) 1,2,4-Trimethylbenzene	20.499	105	674376	11.46	ppb(v	91
95) 1,3-Dichlorobenzene	20.689	146	440028	11.02	ppb(v	97
96) Benzyl Chloride	20.677	91	594101	11.17	ppb(v	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10673.D
Acq On : 2 Apr 2015 11:15 am
Operator : mikel1
Sample : ICC419-10
Misc : MS82329,v5w419,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 03 06:41:57 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Apr 02 16:18:52 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97) 1,4-Dichlorobenzene	20.781	146	430001	10.93 ppb(v	96
98) sec-Butylbenzene	20.860	134	170537	11.21 ppb(v	98
99) p-Isopropyltoluene	21.080	134	194833	11.72 ppb(v	99
100) 1,2-Dichlorobenzene	21.227	146	414553	10.93 ppb(v	96
101) n-Butylbenzene	21.631	134	175802	11.34 ppb(v	96
102) Hexachloroethane	22.090	201	240967	11.01 ppb(v	94
103) 1,2,4-Trichlorobenzene	23.381	180	248485	10.45 ppb(v	98
104) Naphthalene	23.509	128	522192	10.89 ppb(v	100
105) Hexachlorobutadiene	23.962	225	259602	9.27 ppb(v	99
107) TVHC as equiv Pentane	5.933	TIC	597746	10.64 ppb(v	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

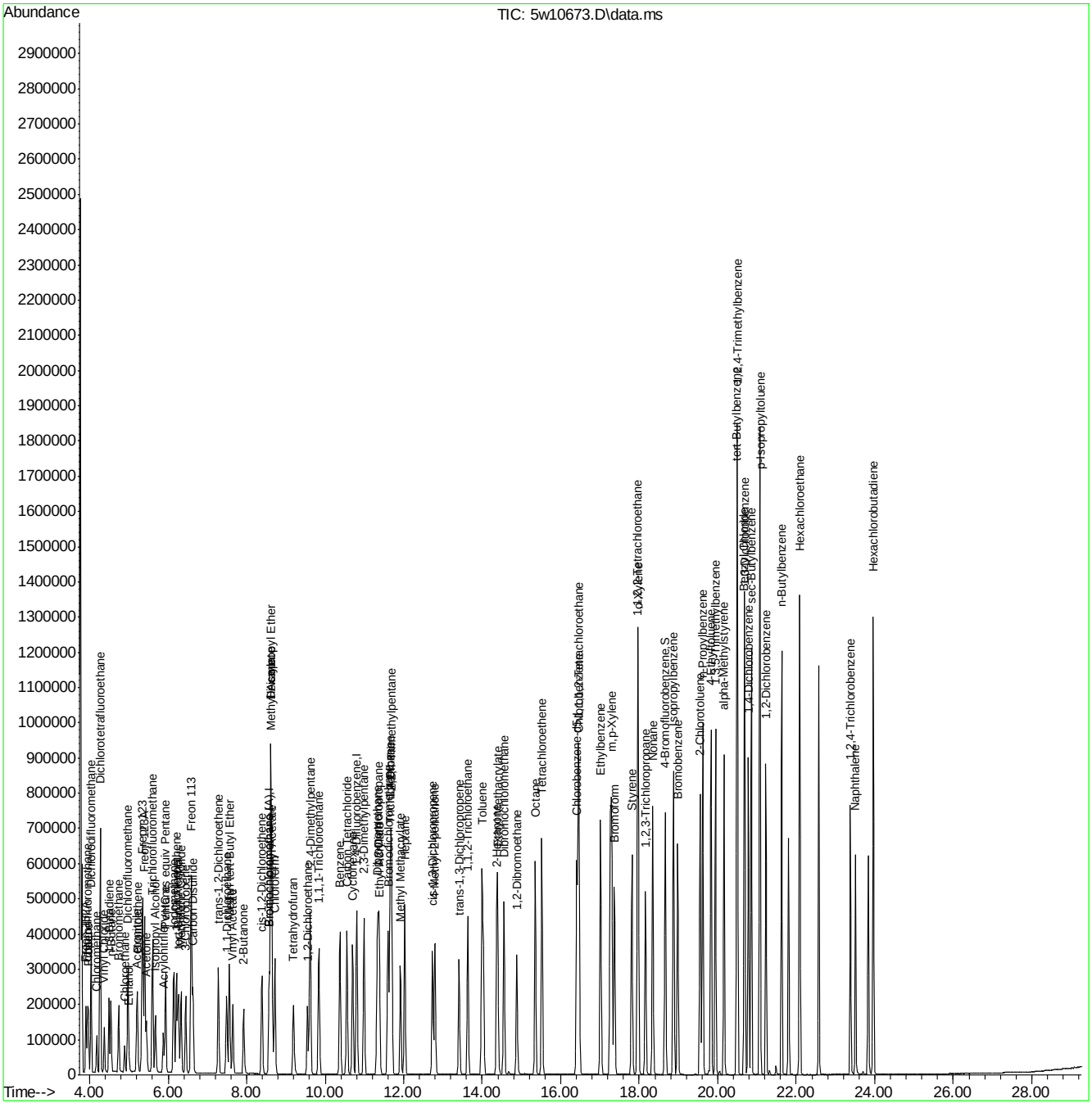
7.7.18

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10673.D
Acq On : 2 Apr 2015 11:15 am
Operator : mikel1
Sample : ICC419-10
Misc : MS82329,v5w419,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 03 06:41:57 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Apr 02 16:18:52 2015
Response via : Initial Calibration



m5w419.M Fri Apr 03 14:41:06 2015 GCMS5W Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10674.D
Acq On : 2 Apr 2015 11:57 am
Operator : mikel1
Sample : IC419-20
Misc : MS82329,v5w419,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 03 06:46:32 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.576	130	130719	10.00	ppb(v	0.00
53) 1,4-Difluorobenzene	10.809	114	500969	10.00	ppb(v	0.00
75) Chlorobenzene-d5	16.413	82	291612	10.00	ppb(v	0.00
106) Bromochloromethane (A)	8.576	130	130719	10.00	ppb(v	0.00
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.664	95	369204	9.52	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 95.20%			
Target Compounds						Qvalue
3) Freon 152A	3.902	65	155180	18.18	ppb(v	96
4) Chlorodifluoromethane	3.939	67	63951	18.47	ppb(v	98
5) Propene	3.969	41	177292	18.47	ppb(v	97
6) Dichlorodifluoromethane	4.037	85	685262	18.25	ppb(v	99
8) Chloromethane	4.177	50	217042	18.04	ppb(v	100
9) Dichlorotetrafluoroethane	4.269	85	668180	18.19	ppb(v	98
10) Vinyl Chloride	4.373	62	264057	18.22	ppb(v	100
11) 1,3-Butadiene	4.495	54	186858	18.23	ppb(v	99
12) n-Butane	4.544	58	38803	17.85	ppb(v	95
13) Bromomethane	4.740	94	261194	18.35	ppb(v	99
14) Chloroethane	4.893	64	129828	18.31	ppb(v	99
15) Dichlorofluoromethane	4.973	67	579011	18.11	ppb(v	100
16) Acetonitrile	5.199	41	208027	18.23	ppb(v	94
17) Freon 123	5.346	83	654005	18.36	ppb(v	100
18) Freon 123A	5.401	117	323061	18.27	ppb(v	90
19) Bromoethene	5.217	106	254528	18.32	ppb(v	98
20) Trichlorofluoromethane	5.603	101	659990	18.19	ppb(v	99
21) Acetone	5.444	58	119404	18.39	ppb(v	99
22) Pentane	5.933	57	65055	18.62	ppb(v	98
24) Iodomethane	6.141	142	715835	18.36	ppb(v	99
25) Isopropyl Alcohol	5.676	45	458382	18.28	ppb(v	95
26) 1,1-Dichloroethene	6.215	61	408840	18.54	ppb(v	99
27) Freon 113	6.588	101	561138	18.53	ppb(v	97
28) Methylene Chloride	6.331	84	240166	18.42	ppb(v	97
29) Carbon Disulfide	6.637	76	800914	18.44	ppb(v	99
30) Ethanol	5.003	45	105446	17.53	ppb(v	100
31) Acrylonitrile	5.878	53	207975	18.66	ppb(v	99
32) 3-Chloropropene	6.447	76	126842	18.63	ppb(v	98
33) trans-1,2-Dichloroethene	7.279	61	398675	18.54	ppb(v	97
34) tert-Butyl Alcohol	6.257	59	620491	18.72	ppb(v	99
35) Methyl tert-Butyl Ether	7.560	73	737387	18.51	ppb(v	99
36) Vinyl Acetate	7.646	43	702596	18.87	ppb(v	99
37) 1,1-Dichloroethane	7.493	63	496919	18.42	ppb(v	100
38) 2-Butanone	7.921	72	137382	18.83	ppb(v	97
39) Hexane	8.619	57	419812	18.49	ppb(v	87
40) cis-1,2-Dichloroethene	8.386	61	382534	18.76	ppb(v	97
41) Di-isopropyl Ether	8.619	45	978455	18.43	ppb(v	99
42) Ethyl Acetate	8.649	61	99097	18.72	ppb(v	86
43) Methyl Acrylate	8.631	55	541088	18.69	ppb(v	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10674.D
Acq On : 2 Apr 2015 11:57 am
Operator : mikel1
Sample : IC419-20
Misc : MS82329,v5w419,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 03 06:46:32 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Chloroform	8.723	83	610901	18.54	ppb(v	99
45) 2,4-Dimethylpentane	9.616	57	498411	18.59	ppb(v	98
46) Tetrahydrofuran	9.188	72	135771	18.59	ppb(v	100
47) 1,1,1-Trichloroethane	9.842	97	563243	18.38	ppb(v	99
48) 1,2-Dichloroethane	9.555	62	363109	18.41	ppb(v	99
49) Benzene	10.381	78	892581	18.36	ppb(v	99
50) Carbon Tetrachloride	10.552	117	603155	18.65	ppb(v	100
51) Cyclohexane	10.699	56	425347	18.60	ppb(v	98
52) 2,3-Dimethylpentane	10.992	71	185328	18.53	ppb(v	100
54) 2,2,4-Trimethylpentane	11.690	57	1402627	18.71	ppb(v	99
55) Heptane	12.026	71	285288	18.73	ppb(v	99
56) Trichloroethene	11.653	95	413256	18.84	ppb(v	95
57) 1,2-Dichloropropane	11.360	63	347706	18.98	ppb(v	98
58) Dibromomethane	11.329	174	365040	18.70	ppb(v	88
59) Ethyl Acrylate	11.384	55	677247	19.01	ppb(v	99
60) Methyl Methacrylate	11.922	69	315244	18.90	ppb(v	99
61) 1,4-Dioxane	11.672	88	216465	19.18	ppb(v#	81
62) Bromodichloromethane	11.604	83	692032	18.81	ppb(v	99
63) cis-1,3-Dichloropropene	12.736	75	540253	18.76	ppb(v	98
64) 4-Methyl-2-pentanone	12.797	58	278616	18.96	ppb(v	97
65) trans-1,3-Dichloropropene	13.415	75	497694	19.05	ppb(v	99
66) Toluene	13.996	91	1088439	18.83	ppb(v	98
67) 1,1,2-Trichloroethane	13.635	97	388406	18.88	ppb(v	99
68) 2-Hexanone	14.376	58	398688	19.35	ppb(v	95
69) Ethyl Methacrylate	14.394	69	570218	19.20	ppb(v	100
70) Dibromochloromethane	14.559	129	708557	18.84	ppb(v	99
71) Tetrachloroethene	15.526	166	525663	18.72	ppb(v	97
72) 1,2-Dibromoethane	14.883	107	630405	18.75	ppb(v	100
73) Octane	15.354	43	674539	18.81	ppb(v	99
74) 1,1,1,2-Tetrachloroethane	16.449	131	469472	18.85	ppb(v	99
76) Chlorobenzene	16.474	112	860141	18.29	ppb(v	97
77) Ethylbenzene	17.018	91	1427298	18.17	ppb(v	99
78) m,p-Xylene	17.294	91	2218989	36.65	ppb(v	98
79) Styrene	17.814	104	841928	18.19	ppb(v	97
80) Nonane	18.346	43	699475	17.72	ppb(v	98
81) o-Xylene	17.973	91	1123317	18.18	ppb(v	98
82) Bromoform	17.373	173	717889	18.41	ppb(v	99
83) 1,1,2,2-Tetrachloroethane	17.967	83	922345	18.30	ppb(v	98
84) 1,2,3-Trichloropropane	18.162	75	639379	18.28	ppb(v	98
85) Isopropylbenzene	18.878	105	1539304	18.17	ppb(v	99
86) Bromobenzene	18.982	156	499187	18.15	ppb(v	90
87) 2-Chlorotoluene	19.557	126	386860	18.18	ppb(v	95
88) n-Propylbenzene	19.618	120	410825	18.26	ppb(v	98
90) 4-Ethyltoluene	19.833	105	1537158	18.23	ppb(v	99
91) 1,3,5-Trimethylbenzene	19.943	105	1275119	18.28	ppb(v	98
92) alpha-Methylstyrene	20.163	118	640670	18.32	ppb(v	99
93) tert-Butylbenzene	20.493	134	260734	18.41	ppb(v	96
94) 1,2,4-Trimethylbenzene	20.506	105	1306962	18.27	ppb(v	96
95) 1,3-Dichlorobenzene	20.689	146	849414	18.20	ppb(v	95
96) Benzyl Chloride	20.677	91	1172836	18.61	ppb(v	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10674.D
Acq On : 2 Apr 2015 11:57 am
Operator : mikel1
Sample : IC419-20
Misc : MS82329,v5w419,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 03 06:46:32 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,4-Dichlorobenzene	20.787	146	835576	18.32	ppb(v	96
98)	sec-Butylbenzene	20.860	134	331402	18.32	ppb(v	99
99)	p-Isopropyltoluene	21.081	134	376884	18.23	ppb(v	97
100)	1,2-Dichlorobenzene	21.234	146	802012	18.24	ppb(v	96
101)	n-Butylbenzene	21.631	134	346119	18.56	ppb(v	97
102)	Hexachloroethane	22.090	201	477594	18.68	ppb(v	94
103)	1,2,4-Trichlorobenzene	23.387	180	499443	18.95	ppb(v	99
104)	Naphthalene	23.515	128	1053471	19.02	ppb(v	100
105)	Hexachlorobutadiene	23.962	225	494950	17.97	ppb(v	99
107)	TVHC as equiv Pentane	5.933	TIC	1108716	17.78	ppb(v	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

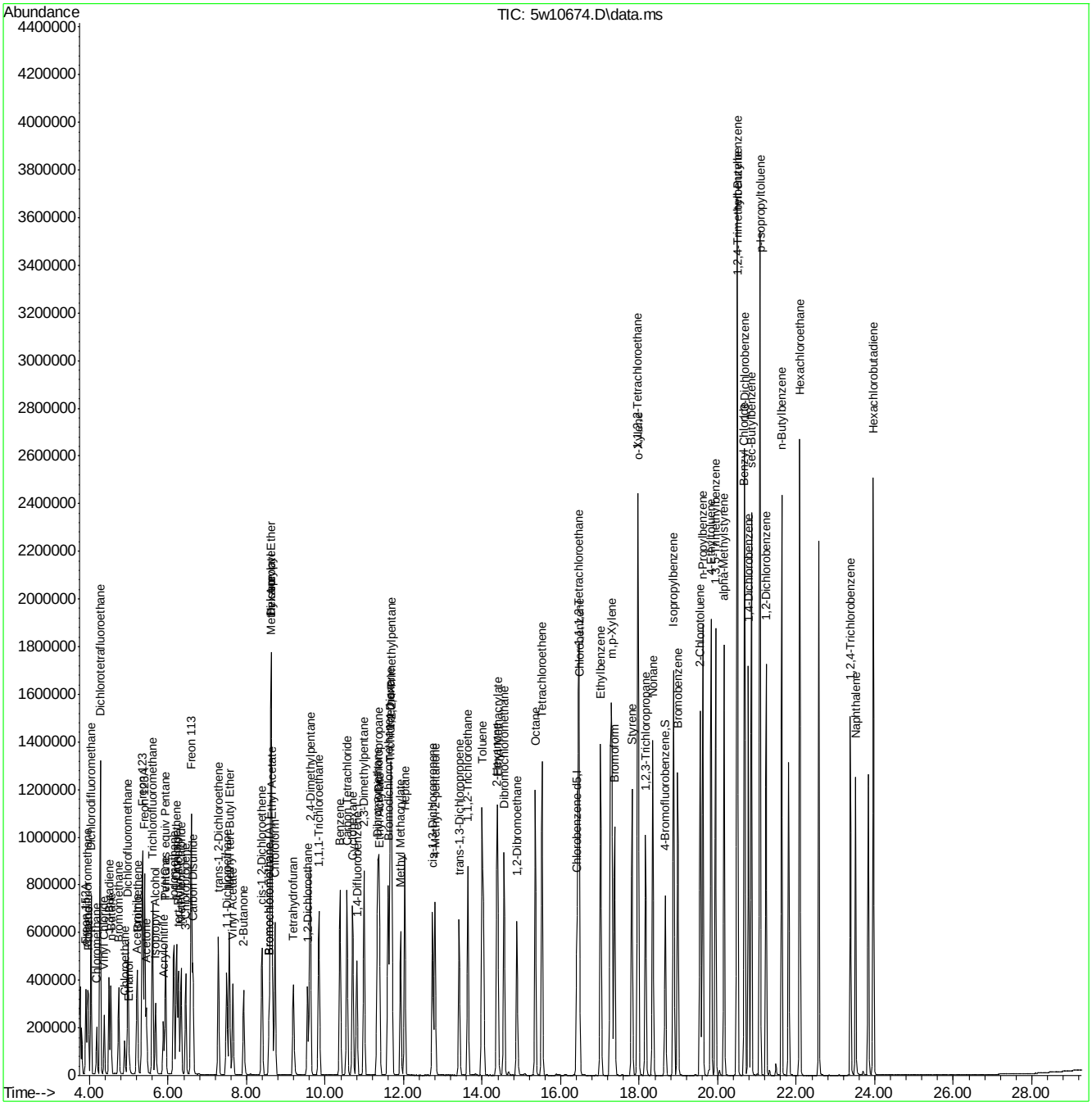
7.7.19

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10674.D
Acq On : 2 Apr 2015 11:57 am
Operator : mikel1
Sample : IC419-20
Misc : MS82329,v5w419,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 03 06:46:32 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10675.D
Acq On : 2 Apr 2015 12:41 pm
Operator : mikel1
Sample : IC419-30
Misc : MS82329,v5w419,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 03 06:46:12 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.582	130	131508	10.00	ppb(v	0.00
53) 1,4-Difluorobenzene	10.809	114	500121	10.00	ppb(v	0.00
75) Chlorobenzene-d5	16.413	82	309082	10.00	ppb(v	0.00
106) Bromochloromethane (A)	8.582	130	131508	10.00	ppb(v	0.00
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.664	95	373056	9.08	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 90.80%			
Target Compounds						Qvalue
3) Freon 152A	3.908	65	240585	28.02	ppb(v	97
4) Chlorodifluoromethane	3.945	67	98059	28.15	ppb(v	99
5) Propene	3.975	41	274091	28.38	ppb(v	97
6) Dichlorodifluoromethane	4.043	85	1054092	27.90	ppb(v	99
8) Chloromethane	4.189	50	331885	27.42	ppb(v	99
9) Dichlorotetrafluoroethane	4.275	85	1033037	27.95	ppb(v	97
10) Vinyl Chloride	4.379	62	406060	27.85	ppb(v	100
11) 1,3-Butadiene	4.501	54	287797	27.91	ppb(v	99
12) n-Butane	4.550	58	59619	27.26	ppb(v	94
13) Bromomethane	4.746	94	400004	27.93	ppb(v	100
14) Chloroethane	4.899	64	196915	27.60	ppb(v	99
15) Dichlorofluoromethane	4.979	67	887239	27.58	ppb(v	100
16) Acetonitrile	5.205	41	316441	27.57	ppb(v	96
17) Freon 123	5.352	83	1003759	28.02	ppb(v	100
18) Freon 123A	5.407	117	539931	30.35	ppb(v	93
19) Bromoethene	5.223	106	392204	28.06	ppb(v	99
20) Trichlorofluoromethane	5.609	101	1021100	27.97	ppb(v	100
21) Acetone	5.450	58	181919	27.86	ppb(v	99
22) Pentane	5.939	57	100656	28.63	ppb(v	99
24) Iodomethane	6.147	142	1100642	28.05	ppb(v	99
25) Isopropyl Alcohol	5.688	45	697343	27.64	ppb(v	95
26) 1,1-Dichloroethene	6.214	61	631030	28.45	ppb(v	98
27) Freon 113	6.594	101	860937	28.26	ppb(v	97
28) Methylene Chloride	6.337	84	369527	28.17	ppb(v	98
29) Carbon Disulfide	6.637	76	1228510	28.11	ppb(v	100
30) Ethanol	5.009	45	162625	26.87	ppb(v	99
31) Acrylonitrile	5.884	53	325292	29.01	ppb(v	100
32) 3-Chloropropene	6.453	76	199975	29.19	ppb(v	99
33) trans-1,2-Dichloroethene	7.285	61	618517	28.59	ppb(v	97
34) tert-Butyl Alcohol	6.269	59	961285	28.82	ppb(v	98
35) Methyl tert-Butyl Ether	7.560	73	1147041	28.62	ppb(v	99
36) Vinyl Acetate	7.652	43	1095501	29.24	ppb(v	99
37) 1,1-Dichloroethane	7.499	63	768116	28.30	ppb(v	100
38) 2-Butanone	7.927	72	212024	28.88	ppb(v	100
39) Hexane	8.619	57	644673	28.22	ppb(v	80
40) cis-1,2-Dichloroethene	8.392	61	588812	28.70	ppb(v	98
41) Di-isopropyl Ether	8.625	45	1491857	27.93	ppb(v	99
42) Ethyl Acetate	8.655	61	152487	28.64	ppb(v	83
43) Methyl Acrylate	8.643	55	831072	28.54	ppb(v	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10675.D
Acq On : 2 Apr 2015 12:41 pm
Operator : mikel1
Sample : IC419-30
Misc : MS82329,v5w419,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 03 06:46:12 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Chloroform	8.729	83	939850	28.36	ppb(v	99
45) 2,4-Dimethylpentane	9.622	57	765056	28.36	ppb(v	98
46) Tetrahydrofuran	9.188	72	208711	28.40	ppb(v	99
47) 1,1,1-Trichloroethane	9.842	97	871338	28.27	ppb(v	100
48) 1,2-Dichloroethane	9.555	62	559027	28.18	ppb(v	99
49) Benzene	10.387	78	1361354	27.84	ppb(v	99
50) Carbon Tetrachloride	10.558	117	931302	28.62	ppb(v	100
51) Cyclohexane	10.705	56	651148	28.30	ppb(v	99
52) 2,3-Dimethylpentane	10.992	71	286225	28.45	ppb(v	99
54) 2,2,4-Trimethylpentane	11.696	57	2137502	28.57	ppb(v	100
55) Heptane	12.032	71	437858	28.79	ppb(v	99
56) Trichloroethene	11.659	95	635048	29.01	ppb(v	96
57) 1,2-Dichloropropane	11.366	63	533824	29.19	ppb(v	98
58) Dibromomethane	11.335	174	564356	28.97	ppb(v	87
59) Ethyl Acrylate	11.390	55	1045937	29.40	ppb(v	99
60) Methyl Methacrylate	11.928	69	491072	29.49	ppb(v	99
61) 1,4-Dioxane	11.671	88	334480	29.68	ppb(v	90
62) Bromodichloromethane	11.610	83	1067655	29.06	ppb(v	100
63) cis-1,3-Dichloropropene	12.742	75	839654	29.20	ppb(v	99
64) 4-Methyl-2-pentanone	12.797	58	430948	29.38	ppb(v	98
65) trans-1,3-Dichloropropene	13.421	75	764738	29.33	ppb(v	99
66) Toluene	14.002	91	1658729	28.74	ppb(v	98
67) 1,1,2-Trichloroethane	13.641	97	594013	28.92	ppb(v	99
68) 2-Hexanone	14.375	58	612001	29.76	ppb(v	97
69) Ethyl Methacrylate	14.400	69	876428	29.56	ppb(v	99
70) Dibromochloromethane	14.559	129	1086330	28.94	ppb(v	99
71) Tetrachloroethene	15.526	166	801739	28.59	ppb(v	95
72) 1,2-Dibromoethane	14.889	107	974720	29.04	ppb(v	100
73) Octane	15.354	43	1032891	28.85	ppb(v	99
74) 1,1,1,2-Tetrachloroethane	16.455	131	718928	28.92	ppb(v	98
76) Chlorobenzene	16.474	112	1310232	26.29	ppb(v	97
77) Ethylbenzene	17.024	91	2162926	25.98	ppb(v	99
78) m,p-Xylene	17.300	91	3362666	52.41	ppb(v	98
79) Styrene	17.820	104	1277259	26.04	ppb(v	98
80) Nonane	18.352	43	1074917	25.69	ppb(v	99
81) o-Xylene	17.979	91	1694673	25.88	ppb(v	99
82) Bromoform	17.373	173	1098106	26.57	ppb(v	99
83) 1,1,2,2-Tetrachloroethane	17.967	83	1406649	26.34	ppb(v	98
84) 1,2,3-Trichloropropane	18.162	75	989874	26.71	ppb(v	98
85) Isopropylbenzene	18.878	105	2304453	25.66	ppb(v	99
86) Bromobenzene	18.988	156	758549	26.02	ppb(v	91
87) 2-Chlorotoluene	19.557	126	593049	26.29	ppb(v	95
88) n-Propylbenzene	19.624	120	624886	26.20	ppb(v	95
90) 4-Ethyltoluene	19.832	105	2327901	26.04	ppb(v	99
91) 1,3,5-Trimethylbenzene	19.949	105	1934159	26.17	ppb(v	99
92) alpha-Methylstyrene	20.163	118	987158	26.64	ppb(v	98
93) tert-Butylbenzene	20.493	134	394900	26.31	ppb(v	95
94) 1,2,4-Trimethylbenzene	20.505	105	1952629	25.75	ppb(v	95
95) 1,3-Dichlorobenzene	20.695	146	1298343	26.24	ppb(v	96
96) Benzyl Chloride	20.677	91	1817748	27.21	ppb(v	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10675.D
Acq On : 2 Apr 2015 12:41 pm
Operator : mikel1
Sample : IC419-30
Misc : MS82329,v5w419,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 03 06:46:12 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration

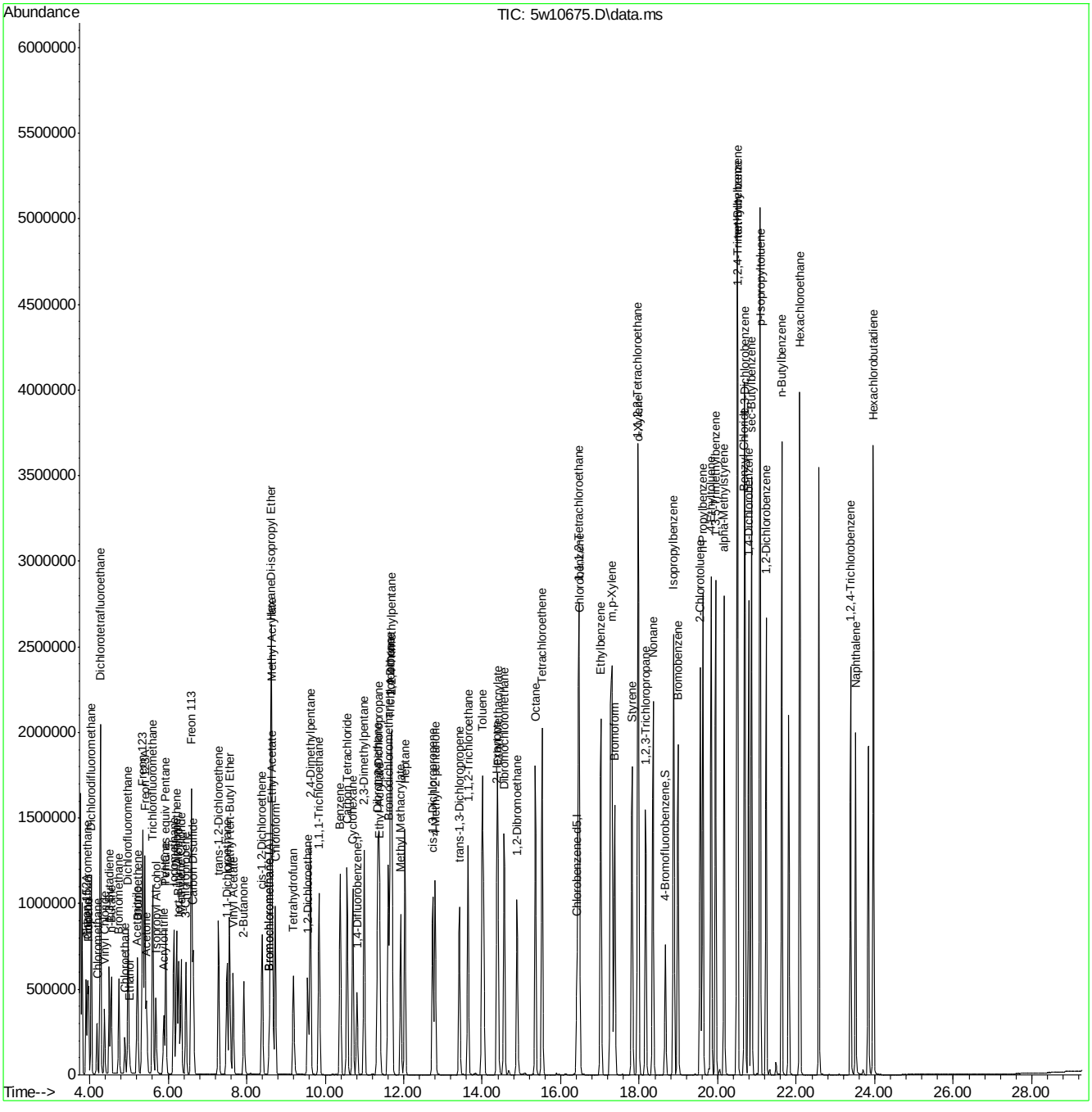
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,4-Dichlorobenzene	20.787	146	1282504	26.52	ppb(v	95
98)	sec-Butylbenzene	20.860	134	510499	26.62	ppb(v	95
99)	p-Isopropyltoluene	21.087	134	565346	25.81	ppb(v	93
100)	1,2-Dichlorobenzene	21.233	146	1233701	26.47	ppb(v	96
101)	n-Butylbenzene	21.631	134	541430	27.39	ppb(v	99
102)	Hexachloroethane	22.090	201	735534	27.15	ppb(v	92
103)	1,2,4-Trichlorobenzene	23.387	180	787273	28.18	ppb(v	99
104)	Naphthalene	23.515	128	1643431	27.99	ppb(v	99
105)	Hexachlorobutadiene	23.968	225	752127	25.77	ppb(v	99
107)	TVHC as equiv Pentane	5.939	TIC	1688415	26.91	ppb(v	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10675.D
Acq On : 2 Apr 2015 12:41 pm
Operator : mikel1
Sample : IC419-30
Misc : MS82329,v5w419,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 03 06:46:12 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10677.D
Acq On : 2 Apr 2015 2:10 pm
Operator : mikel1
Sample : IC419-40
Misc : MS82329,v5w419,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 03 06:45:34 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.582	130	125653	10.00	ppb(v	# 0.00
53) 1,4-Difluorobenzene	10.815	114	474135	10.00	ppb(v	0.01
75) Chlorobenzene-d5	16.413	82	313831	10.00	ppb(v	0.00
106) Bromochloromethane (A)	8.582	130	125653	10.00	ppb(v	# 0.00
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.664	95	374424	8.97	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 89.70%			
Target Compounds						Qvalue
3) Freon 152A	3.908	65	311932	38.02	ppb(v	97
4) Chlorodifluoromethane	3.945	67	127024	38.17	ppb(v	100
5) Propene	3.975	41	360312	39.04	ppb(v	98
6) Dichlorodifluoromethane	4.037	85	1283750	35.57	ppb(v	99
8) Chloromethane	4.183	50	436478	37.74	ppb(v	100
9) Dichlorotetrafluoroethane	4.269	85	1332144	37.72	ppb(v	95
10) Vinyl Chloride	4.379	62	528081	37.91	ppb(v	100
11) 1,3-Butadiene	4.502	54	379645	38.54	ppb(v	99
12) n-Butane	4.544	58	77959	37.31	ppb(v	92
13) Bromomethane	4.746	94	516946	37.78	ppb(v	100
14) Chloroethane	4.899	64	260111	38.16	ppb(v	99
15) Dichlorofluoromethane	4.979	67	1153971	37.55	ppb(v	99
16) Acetonitrile	5.211	41	421179	38.40	ppb(v	97
17) Freon 123	5.352	83	1308840	38.23	ppb(v	100
18) Freon 123A	5.407	117	698805	41.11	ppb(v	92
19) Bromoethene	5.217	106	505073	37.83	ppb(v	99
20) Trichlorofluoromethane	5.609	101	1324872	37.98	ppb(v	99
21) Acetone	5.450	58	240244	38.50	ppb(v	99
22) Pentane	5.939	57	135164	40.24	ppb(v	97
24) Iodomethane	6.147	142	1416057	37.78	ppb(v	98
25) Isopropyl Alcohol	5.695	45	917803	38.07	ppb(v	95
26) 1,1-Dichloroethene	6.215	61	833691	39.34	ppb(v	98
27) Freon 113	6.594	101	1128313	38.76	ppb(v	97
28) Methylene Chloride	6.337	84	484369	38.65	ppb(v	96
29) Carbon Disulfide	6.637	76	1606991	38.49	ppb(v	100
30) Ethanol	5.015	45	212960	36.82	ppb(v	99
31) Acrylonitrile	5.890	53	433259	40.44	ppb(v	99
32) 3-Chloropropene	6.453	76	260879	39.86	ppb(v	98
33) trans-1,2-Dichloroethene	7.285	61	813185	39.34	ppb(v	96
34) tert-Butyl Alcohol	6.276	59	1241057	38.95	ppb(v	98
35) Methyl tert-Butyl Ether	7.567	73	1491675	38.95	ppb(v	99
36) Vinyl Acetate	7.658	43	1457542	40.72	ppb(v	100
37) 1,1-Dichloroethane	7.499	63	1017991	39.26	ppb(v	99
38) 2-Butanone	7.928	72	279884	39.90	ppb(v	98
39) Hexane	8.625	57	834814	38.24	ppb(v	83
40) cis-1,2-Dichloroethene	8.399	61	775825	39.58	ppb(v	97
41) Di-isopropyl Ether	8.625	45	1931346	37.85	ppb(v	99
42) Ethyl Acetate	8.662	61	201079	39.52	ppb(v	71
43) Methyl Acrylate	8.643	55	1083556	38.94	ppb(v	97

ACCUTEST LABORATORIES JB94203

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10677.D
Acq On : 2 Apr 2015 2:10 pm
Operator : mikel1
Sample : IC419-40
Misc : MS82329,v5w419,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 03 06:45:34 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Chloroform	8.729	83	1229239	38.82	ppb(v	100
45) 2,4-Dimethylpentane	9.622	57	1005445	39.01	ppb(v	98
46) Tetrahydrofuran	9.194	72	276074	39.32	ppb(v	99
47) 1,1,1-Trichloroethane	9.848	97	1140424	38.72	ppb(v	99
48) 1,2-Dichloroethane	9.561	62	734035	38.72	ppb(v	99
49) Benzene	10.387	78	1789479	38.30	ppb(v	99
50) Carbon Tetrachloride	10.558	117	1220846	39.26	ppb(v	99
51) Cyclohexane	10.705	56	866891	39.43	ppb(v	98
52) 2,3-Dimethylpentane	10.999	71	373599	38.86	ppb(v	99
54) 2,2,4-Trimethylpentane	11.696	57	2802562	39.51	ppb(v	100
55) Heptane	12.032	71	575661	39.92	ppb(v	98
56) Trichloroethene	11.665	95	836746	40.31	ppb(v	96
57) 1,2-Dichloropropane	11.372	63	706530	40.76	ppb(v	98
58) Dibromomethane	11.341	174	729186	39.48	ppb(v	89
59) Ethyl Acrylate	11.396	55	1382839	41.01	ppb(v	99
60) Methyl Methacrylate	11.928	69	647085	40.99	ppb(v	99
61) 1,4-Dioxane	11.678	88	439432	41.13	ppb(v#	82
62) Bromodichloromethane	11.610	83	1402277	40.26	ppb(v	100
63) cis-1,3-Dichloropropene	12.742	75	1111615	40.78	ppb(v	98
64) 4-Methyl-2-pentanone	12.803	58	574238	41.29	ppb(v	96
65) trans-1,3-Dichloropropene	13.421	75	1015709	41.09	ppb(v	99
66) Toluene	14.002	91	2176560	39.78	ppb(v	98
67) 1,1,2-Trichloroethane	13.641	97	782506	40.18	ppb(v	98
68) 2-Hexanone	14.382	58	820552	42.09	ppb(v	95
69) Ethyl Methacrylate	14.400	69	1169704	41.62	ppb(v	100
70) Dibromochloromethane	14.565	129	1419472	39.88	ppb(v	98
71) Tetrachloroethene	15.532	166	1039600	39.11	ppb(v	96
72) 1,2-Dibromoethane	14.896	107	1275834	40.10	ppb(v	99
73) Octane	15.361	43	1370697	40.39	ppb(v	97
74) 1,1,1,2-Tetrachloroethane	16.456	131	945414	40.11	ppb(v	98
76) Chlorobenzene	16.480	112	1732137	34.23	ppb(v	97
77) Ethylbenzene	17.025	91	2830312	33.48	ppb(v	99
78) m,p-Xylene	17.300	91	4441056	68.17	ppb(v	98
79) Styrene	17.820	104	1681508	33.76	ppb(v	97
80) Nonane	18.352	43	1437354	33.84	ppb(v	99
81) o-Xylene	17.979	91	2199825	33.09	ppb(v	99
82) Bromoform	17.379	173	1441736	34.35	ppb(v	99
83) 1,1,2,2-Tetrachloroethane	17.973	83	1824700	33.65	ppb(v	99
84) 1,2,3-Trichloropropane	18.169	75	1303610	34.64	ppb(v	98
85) Isopropylbenzene	18.884	105	3042474	33.37	ppb(v	99
86) Bromobenzene	18.988	156	1001545	33.84	ppb(v	89
87) 2-Chlorotoluene	19.557	126	775243	33.84	ppb(v	96
88) n-Propylbenzene	19.625	120	815660	33.69	ppb(v	96
90) 4-Ethyltoluene	19.833	105	2960119	32.61	ppb(v	98
91) 1,3,5-Trimethylbenzene	19.949	105	2543895	33.89	ppb(v	99
92) alpha-Methylstyrene	20.169	118	1293763	34.38	ppb(v	98
93) tert-Butylbenzene	20.499	134	505387	33.16	ppb(v	95
94) 1,2,4-Trimethylbenzene	20.512	105	2471320	32.10	ppb(v	93
95) 1,3-Dichlorobenzene	20.695	146	1673170	33.30	ppb(v	95
96) Benzyl Chloride	20.683	91	2361139	34.81	ppb(v	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10677.D
Acq On : 2 Apr 2015 2:10 pm
Operator : mikel1
Sample : IC419-40
Misc : MS82329,v5w419,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 03 06:45:34 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration

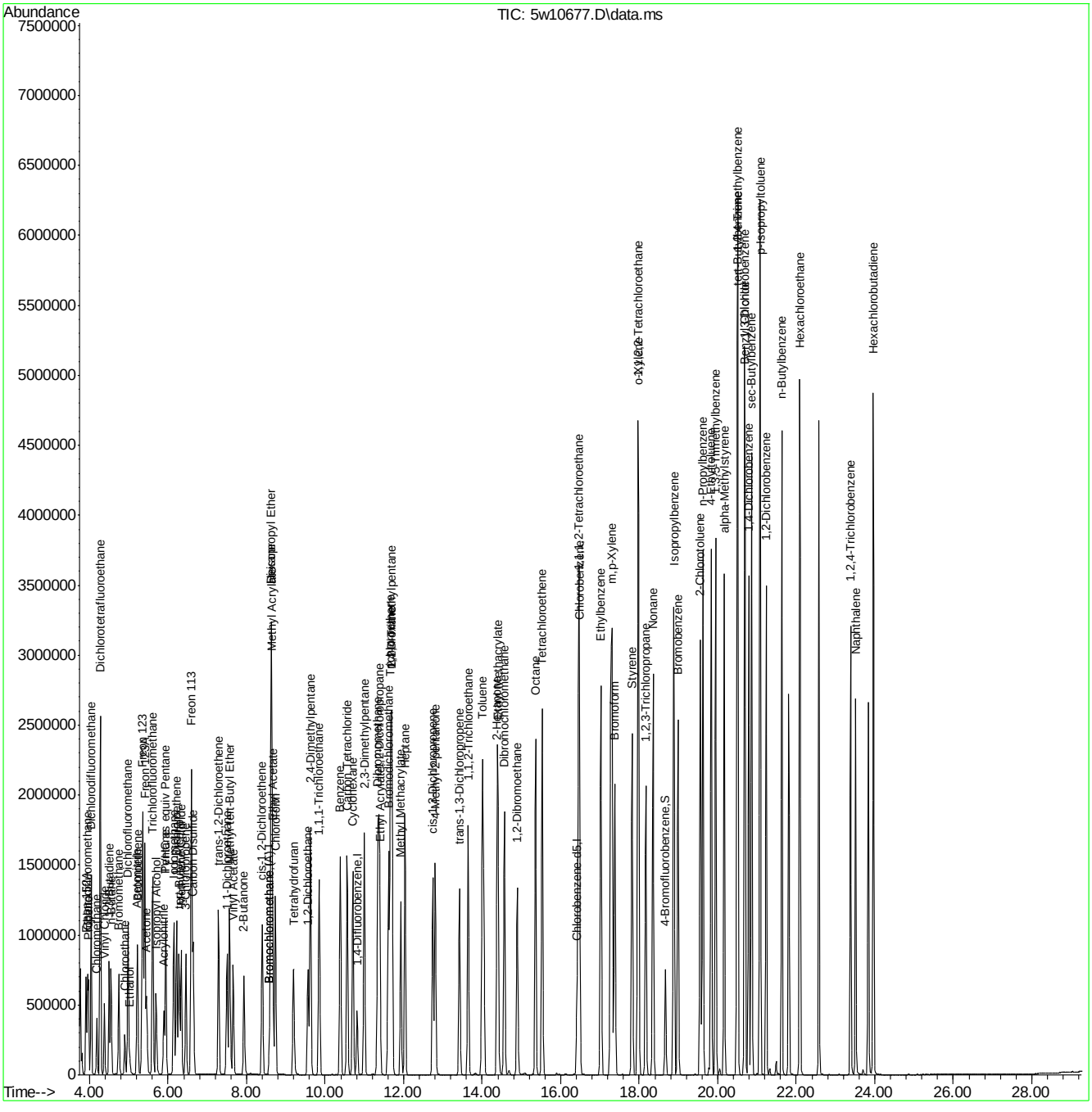
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,4-Dichlorobenzene	20.787	146	1670757	34.03	ppb(v	94
98)	sec-Butylbenzene	20.866	134	670275	34.42	ppb(v	88
99)	p-Isopropyltoluene	21.087	134	721063	32.42	ppb(v	94
100)	1,2-Dichlorobenzene	21.234	146	1607616	33.97	ppb(v	94
101)	n-Butylbenzene	21.637	134	702099	34.98	ppb(v	93
102)	Hexachloroethane	22.096	201	964697	35.06	ppb(v	99
103)	1,2,4-Trichlorobenzene	23.387	180	1044190	36.81	ppb(v	98
104)	Naphthalene	23.515	128	2169860	36.39	ppb(v	98
105)	Hexachlorobutadiene	23.968	225	1018002	34.35	ppb(v	98
107)	TVHC as equiv Pentane	5.939	TIC	2250879	37.55	ppb(v	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10677.D
Acq On : 2 Apr 2015 2:10 pm
Operator : mikel1
Sample : IC419-40
Misc : MS82329,v5w419,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 03 06:45:34 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 06:42:39 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10679.D
Acq On : 2 Apr 2015 3:35 pm
Operator : mikel1
Sample : ICV419-10
Misc : MS82329,v5w419,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 03 14:39:47 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.576	130	145529	10.00	ppb(v	# 0.00
53) 1,4-Difluorobenzene	10.809	114	562119	10.00	ppb(v	0.00
75) Chlorobenzene-d5	16.407	82	308603	10.00	ppb(v	0.00
106) Bromochloromethane (A)	8.576	130	145529	10.00	ppb(v	# 0.00
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.664	95	400572	9.95	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery	=	99.50%	
Target Compounds						Qvalue
3) Freon 152A	3.908	65	79002	8.77	ppb(v	95
4) Chlorodifluoromethane	3.945	67	32241	9.40	ppb(v	98
5) Propene	3.975	41	91109	8.70	ppb(v#	95
6) Dichlorodifluoromethane	4.043	85	341566	9.10	ppb(v	99
8) Chloromethane	4.183	50	109298	8.99	ppb(v	99
9) Dichlorotetrafluoroethane	4.275	85	334975	9.09	ppb(v	97
10) Vinyl Chloride	4.379	62	131531	9.02	ppb(v	99
11) 1,3-Butadiene	4.501	54	95084	9.24	ppb(v	99
12) n-Butane	4.550	58	20075	9.64	ppb(v#	92
13) Bromomethane	4.746	94	129281	8.69	ppb(v	99
14) Chloroethane	4.899	64	64676	9.08	ppb(v	99
15) Dichlorofluoromethane	4.979	67	293093	9.08	ppb(v	99
16) Acetonitrile	5.205	41	108391	8.37	ppb(v	88
17) Freon 123	5.352	83	330491	9.23	ppb(v	100
18) Freon 123A	5.407	117	162006	8.74	ppb(v	90
19) Bromoethene	5.217	106	126845	9.22	ppb(v	99
20) Trichlorofluoromethane	5.609	101	331746	9.20	ppb(v	100
21) Acetone	5.450	58	59923	8.79	ppb(v	96
22) Pentane	5.939	57	32709	9.37	ppb(v	95
24) Iodomethane	6.147	142	352730	9.05	ppb(v	99
25) Isopropyl Alcohol	5.682	45	239386	8.91	ppb(v	95
26) 1,1-Dichloroethene	6.214	61	211127	9.53	ppb(v	97
27) Freon 113	6.594	101	284057	9.36	ppb(v	96
28) Methylene Chloride	6.331	84	122065	9.04	ppb(v	95
29) Carbon Disulfide	6.637	76	404697	9.40	ppb(v	99
30) Ethanol	5.009	45	57141	8.30	ppb(v	99
31) Acrylonitrile	5.884	53	104166	9.10	ppb(v	98
32) 3-Chloropropene	6.453	76	63430	9.96	ppb(v	93
33) trans-1,2-Dichloroethene	7.285	61	202398	9.51	ppb(v	96
34) tert-Butyl Alcohol	6.263	59	312876	9.25	ppb(v	99
35) Methyl tert-Butyl Ether	7.560	73	370350	9.48	ppb(v	98
36) Vinyl Acetate	7.652	43	365966	9.97	ppb(v	99
37) 1,1-Dichloroethane	7.493	63	252098	9.35	ppb(v	99
38) 2-Butanone	7.927	72	68202	9.02	ppb(v	97
39) Hexane	8.619	57	215550	8.85	ppb(v	88
40) cis-1,2-Dichloroethene	8.392	61	192760	9.48	ppb(v	96
41) Di-isopropyl Ether	8.625	45	514678	9.90	ppb(v	99
42) Ethyl Acetate	8.649	61	49762	9.39	ppb(v	98
43) Methyl Acrylate	8.637	55	279477	9.34	ppb(v	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w10679.D
Acq On : 2 Apr 2015 3:35 pm
Operator : mikel1
Sample : ICV419-10
Misc : MS82329,v5w419,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 03 14:39:47 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Chloroform	8.723	83	307558	9.40	ppb(v	99
45) 2,4-Dimethylpentane	9.622	57	252356	9.60	ppb(v	99
46) Tetrahydrofuran	9.194	72	67472	9.14	ppb(v	98
47) 1,1,1-Trichloroethane	9.842	97	282945	9.26	ppb(v	99
48) 1,2-Dichloroethane	9.555	62	185630	9.68	ppb(v	100
49) Benzene	10.381	78	445596	9.24	ppb(v	99
50) Carbon Tetrachloride	10.558	117	297135	9.26	ppb(v	100
51) Cyclohexane	10.699	56	215524	9.38	ppb(v	97
52) 2,3-Dimethylpentane	10.992	71	93465	9.76	ppb(v	97
54) 2,2,4-Trimethylpentane	11.690	57	718754	9.59	ppb(v	99
55) Heptane	12.026	71	143036	9.58	ppb(v	98
56) Trichloroethene	11.653	95	204455	9.16	ppb(v	94
57) 1,2-Dichloropropane	11.359	63	173834	9.47	ppb(v	98
58) Dibromomethane	11.329	174	176954	8.80	ppb(v	85
59) Ethyl Acrylate	11.384	55	346410	9.25	ppb(v	99
60) Methyl Methacrylate	11.922	69	160278	9.25	ppb(v	98
61) 1,4-Dioxane	11.671	88	109253	8.67	ppb(v#	76
62) Bromodichloromethane	11.604	83	346507	9.43	ppb(v	99
63) cis-1,3-Dichloropropene	12.736	75	269332	9.40	ppb(v	98
64) 4-Methyl-2-pentanone	12.797	58	141613	9.44	ppb(v	99
65) trans-1,3-Dichloropropene	13.415	75	245918	9.57	ppb(v	98
66) Toluene	13.996	91	538120	9.13	ppb(v	99
67) 1,1,2-Trichloroethane	13.635	97	190494	9.25	ppb(v	99
68) 2-Hexanone	14.375	58	199613	9.05	ppb(v	98
69) Ethyl Methacrylate	14.394	69	286811	9.31	ppb(v	99
70) Dibromochloromethane	14.559	129	344967	9.06	ppb(v	100
71) Tetrachloroethene	15.526	166	252765	8.81	ppb(v	97
72) 1,2-Dibromoethane	14.883	107	308771	9.16	ppb(v	100
73) Octane	15.354	43	341426	9.35	ppb(v	99
74) 1,1,1,2-Tetrachloroethane	16.449	131	229591	9.28	ppb(v	99
76) Chlorobenzene	16.468	112	418477	9.05	ppb(v	96
77) Ethylbenzene	17.018	91	701795	9.36	ppb(v	99
78) m,p-Xylene	17.294	91	1159065	19.26	ppb(v	98
79) Styrene	17.814	104	406468	9.75	ppb(v	98
80) Nonane	18.346	43	350606	9.22	ppb(v	97
81) o-Xylene	17.973	91	552099	9.43	ppb(v	97
82) Bromoform	17.367	173	340182	9.33	ppb(v	99
83) 1,1,2,2-Tetrachloroethane	17.967	83	454216	9.33	ppb(v	98
84) 1,2,3-Trichloropropane	18.162	75	314214	9.34	ppb(v	98
85) Isopropylbenzene	18.878	105	753773	9.36	ppb(v	99
86) Bromobenzene	18.982	156	240198	9.12	ppb(v	90
87) 2-Chlorotoluene	19.551	126	183976	9.23	ppb(v	90
88) n-Propylbenzene	19.618	120	197522	9.51	ppb(v	99
90) 4-Ethyltoluene	19.832	105	745702	9.58	ppb(v	99
91) 1,3,5-Trimethylbenzene	19.943	105	614078	9.30	ppb(v	98
92) alpha-Methylstyrene	20.163	118	312707	9.99	ppb(v	98
93) tert-Butylbenzene	20.493	134	126932	9.48	ppb(v	94
94) 1,2,4-Trimethylbenzene	20.499	105	643020	9.73	ppb(v	89
95) 1,3-Dichlorobenzene	20.689	146	404987	9.02	ppb(v	96
96) Benzyl Chloride	20.677	91	553198	9.27	ppb(v	99

Quantitation Report (QT Reviewed)

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Acq On : 2 Apr 2015 3:35 pm
Operator : mikel1
Sample : ICV419-10
Misc : MS82329,v5w419,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 03 14:39:47 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,4-Dichlorobenzene	20.781	146	399577	9.05	ppb(v	96
98)	sec-Butylbenzene	20.860	134	158706	9.29	ppb(v	94
99)	p-Isopropyltoluene	21.080	134	180921	9.69	ppb(v	98
100)	1,2-Dichlorobenzene	21.233	146	384471	9.03	ppb(v	97
101)	n-Butylbenzene	21.631	134	163496	9.84	ppb(v	95
102)	Hexachloroethane	22.090	201	221414	9.01	ppb(v	91
103)	1,2,4-Trichlorobenzene	23.381	180	243607	9.13	ppb(v	98
104)	Naphthalene	23.509	128	515582	9.58	ppb(v	100
105)	Hexachlorobutadiene	23.962	225	235006	7.47	ppb(v	99
107)	TVHC as equiv Pentane	5.939	TIC	573122	8.73	ppb(v	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
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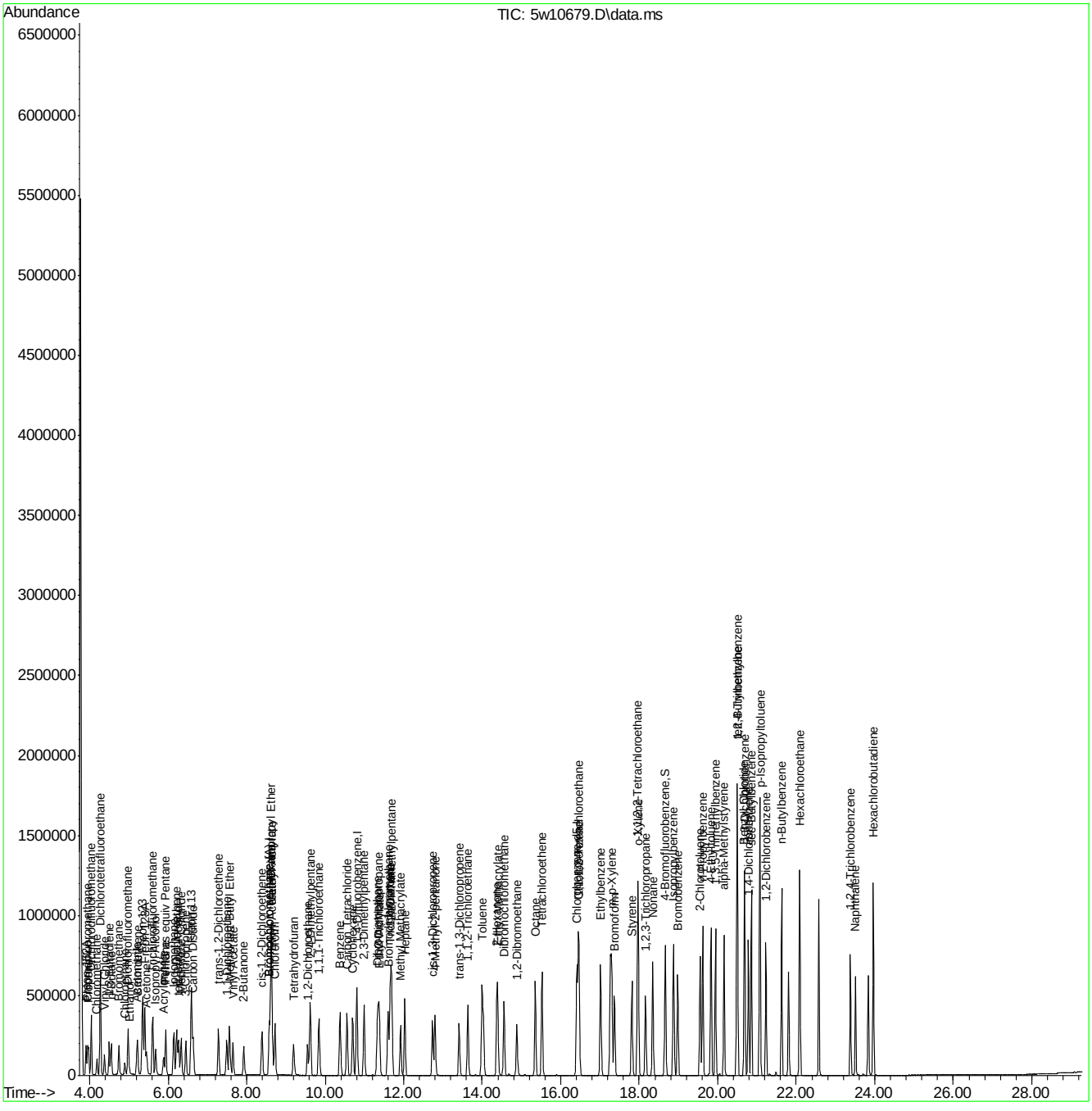
Acq On : 2 Apr 2015 3:35 pm
Operator : mikel1
Sample : ICV419-10
Misc : MS82329,v5w419,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 03 14:39:47 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11426.D
Acq On : 8 May 2015 7:27 am
Operator : mikel1
Sample : CC419-10
Misc : MS84579,v5w449,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 08 10:23:02 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.552	130	141147	10.00	ppb(v	-0.02
53) 1,4-Difluorobenzene	10.778	114	510745	10.00	ppb(v	-0.02
75) Chlorobenzene-d5	16.376	82	279320	10.00	ppb(v	-0.03
106) Bromochloromethane (A)	8.552	130	141147	10.00	ppb(v	-0.02
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.634	95	359437	9.87	ppb(v	-0.03
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.70%			
Target Compounds						Qvalue
3) Freon 152A	3.902	65	84489	9.67	ppb(v	98
4) Chlorodifluoromethane	3.939	67	32706	9.83	ppb(v	98
5) Propene	3.969	41	96460	9.50	ppb(v	98
6) Dichlorodifluoromethane	4.031	85	360093	9.89	ppb(v	99
8) Chloromethane	4.177	50	131056	11.11	ppb(v	99
9) Dichlorotetrafluoroethane	4.263	85	388033	10.85	ppb(v	95
10) Vinyl Chloride	4.373	62	156345	11.06	ppb(v	99
11) 1,3-Butadiene	4.489	54	107490	10.77	ppb(v	97
12) n-Butane	4.538	58	22605	11.20	ppb(v	80
13) Bromomethane	4.734	94	149221	10.34	ppb(v	100
14) Chloroethane	4.887	64	75016	10.86	ppb(v	99
15) Dichlorofluoromethane	4.967	67	340727	10.88	ppb(v	100
16) Acetonitrile	5.187	41	127815	10.18	ppb(v	99
17) Freon 123	5.334	83	372388	10.72	ppb(v	99
18) Freon 123A	5.389	117	180936	10.06	ppb(v	87
19) Bromoethene	5.205	106	139097	10.43	ppb(v	100
20) Trichlorofluoromethane	5.591	101	367045	10.49	ppb(v	100
21) Acetone	5.431	58	69672	10.53	ppb(v	94
22) Pentane	5.921	57	33624	9.93	ppb(v	84
24) Iodomethane	6.123	142	365479	9.67	ppb(v	100
25) Isopropyl Alcohol	5.658	45	271909	10.44	ppb(v	98
26) 1,1-Dichloroethene	6.196	61	211361	9.84	ppb(v	97
27) Freon 113	6.569	101	290877	9.89	ppb(v	97
28) Methylene Chloride	6.312	84	127512	9.73	ppb(v	92
29) Carbon Disulfide	6.612	76	429751	10.29	ppb(v	99
30) Ethanol	4.991	45	61344	9.19	ppb(v	97
31) Acrylonitrile	5.860	53	109945	9.91	ppb(v	97
32) 3-Chloropropene	6.429	76	62993	10.20	ppb(v	87
33) trans-1,2-Dichloroethene	7.261	61	203522	9.86	ppb(v	94
34) tert-Butyl Alcohol	6.233	59	312404	9.52	ppb(v	97
35) Methyl tert-Butyl Ether	7.536	73	355324	9.38	ppb(v	95
36) Vinyl Acetate	7.622	43	373380	10.49	ppb(v	97
37) 1,1-Dichloroethane	7.469	63	259432	9.92	ppb(v	99
38) 2-Butanone	7.897	72	66838	9.11	ppb(v	91
39) Hexane	8.594	57	221674	9.38	ppb(v	98
40) cis-1,2-Dichloroethene	8.362	61	190672	9.67	ppb(v	95
41) Di-isopropyl Ether	8.594	45	537293	10.66	ppb(v	98
42) Ethyl Acetate	8.619	61	51272	9.97	ppb(v	92
43) Methyl Acrylate	8.607	55	286275	9.86	ppb(v	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11426.D
Acq On : 8 May 2015 7:27 am
Operator : mikel1
Sample : CC419-10
Misc : MS84579,v5w449,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 08 10:23:02 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44)	Chloroform	8.692	83	314142	9.90	ppb(v	98
45)	2,4-Dimethylpentane	9.592	57	251908	9.89	ppb(v	98
46)	Tetrahydrofuran	9.163	72	65529	9.15	ppb(v	92
47)	1,1,1-Trichloroethane	9.812	97	283536	9.57	ppb(v	99
48)	1,2-Dichloroethane	9.524	62	186431	10.03	ppb(v	99
49)	Benzene	10.350	78	438400	9.37	ppb(v	99
50)	Carbon Tetrachloride	10.528	117	302667	9.73	ppb(v	98
51)	Cyclohexane	10.668	56	211588	9.49	ppb(v	96
52)	2,3-Dimethylpentane	10.962	71	90007	9.69	ppb(v	93
54)	2,2,4-Trimethylpentane	11.659	57	740837	10.88	ppb(v	99
55)	Heptane	11.996	71	141799	10.45	ppb(v	95
56)	Trichloroethene	11.623	95	205038	10.11	ppb(v	95
57)	1,2-Dichloropropane	11.329	63	178095	10.68	ppb(v	98
58)	Dibromomethane	11.298	174	186830	10.23	ppb(v	91
59)	Ethyl Acrylate	11.353	55	342323	10.06	ppb(v	98
60)	Methyl Methacrylate	11.886	69	152450	9.69	ppb(v	93
61)	1,4-Dioxane	11.641	88	108222	9.45	ppb(v#	72
62)	Bromodichloromethane	11.568	83	350087	10.49	ppb(v	98
63)	cis-1,3-Dichloropropene	12.705	75	259920	9.98	ppb(v	98
64)	4-Methyl-2-pentanone	12.761	58	143121	10.50	ppb(v	96
65)	trans-1,3-Dichloropropene	13.385	75	236161	10.11	ppb(v	98
66)	Toluene	13.966	91	532679	9.95	ppb(v	99
67)	1,1,2-Trichloroethane	13.605	97	192359	10.29	ppb(v	99
68)	2-Hexanone	14.339	58	202737	10.11	ppb(v	99
69)	Ethyl Methacrylate	14.363	69	285053	10.18	ppb(v	98
70)	Dibromochloromethane	14.529	129	357249	10.33	ppb(v	99
71)	Tetrachloroethene	15.495	166	266279	10.21	ppb(v	99
72)	1,2-Dibromoethane	14.853	107	308688	10.08	ppb(v	99
73)	Octane	15.324	43	358182	10.79	ppb(v	96
74)	1,1,1,2-Tetrachloroethane	16.419	131	234635	10.43	ppb(v	100
76)	Chlorobenzene	16.437	112	422543	10.10	ppb(v	97
77)	Ethylbenzene	16.988	91	683088	10.06	ppb(v	98
78)	m,p-Xylene	17.263	91	1082665	19.88	ppb(v	98
79)	Styrene	17.783	104	389889	10.33	ppb(v	98
80)	Nonane	18.315	43	387892	11.26	ppb(v	94
81)	o-Xylene	17.936	91	555843	10.49	ppb(v	98
82)	Bromoform	17.337	173	360648	10.93	ppb(v	99
83)	1,1,2,2-Tetrachloroethane	17.930	83	480215	10.90	ppb(v	97
84)	1,2,3-Trichloropropane	18.126	75	325680	10.69	ppb(v	97
85)	Isopropylbenzene	18.842	105	761022	10.44	ppb(v	99
86)	Bromobenzene	18.952	156	249668	10.47	ppb(v	92
87)	2-Chlorotoluene	19.527	126	186818	10.35	ppb(v	94
88)	n-Propylbenzene	19.594	120	203053	10.81	ppb(v	99
90)	4-Ethyltoluene	19.802	105	747621	10.61	ppb(v	99
91)	1,3,5-Trimethylbenzene	19.918	105	626142	10.48	ppb(v	98
92)	alpha-Methylstyrene	20.138	118	303517	10.71	ppb(v	98
93)	tert-Butylbenzene	20.469	134	129715	10.71	ppb(v	90
94)	1,2,4-Trimethylbenzene	20.475	105	665867	11.14	ppb(v	93
95)	1,3-Dichlorobenzene	20.665	146	435167	10.71	ppb(v	98
96)	Benzyl Chloride	20.652	91	600734	11.12	ppb(v	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
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Acq On : 8 May 2015 7:27 am
Operator : mikel1
Sample : CC419-10
Misc : MS84579,v5w449,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 08 10:23:02 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,4-Dichlorobenzene	20.756	146	422837	10.58	ppb(v	97
98)	sec-Butylbenzene	20.836	134	163253	10.56	ppb(v	91
99)	p-Isopropyltoluene	21.056	134	185664	10.99	ppb(v	96
100)	1,2-Dichlorobenzene	21.203	146	405007	10.51	ppb(v	96
101)	n-Butylbenzene	21.607	134	165823	11.02	ppb(v	86
102)	Hexachloroethane	22.066	201	260154	11.70	ppb(v	92
103)	1,2,4-Trichlorobenzene	23.363	180	240353	9.95	ppb(v	99
104)	Naphthalene	23.491	128	493709	10.13	ppb(v	99
105)	Hexachlorobutadiene	23.944	225	254257	8.93	ppb(v	100
107)	TVHC as equiv Pentane	5.921	TIC	618239	9.72	ppb(v	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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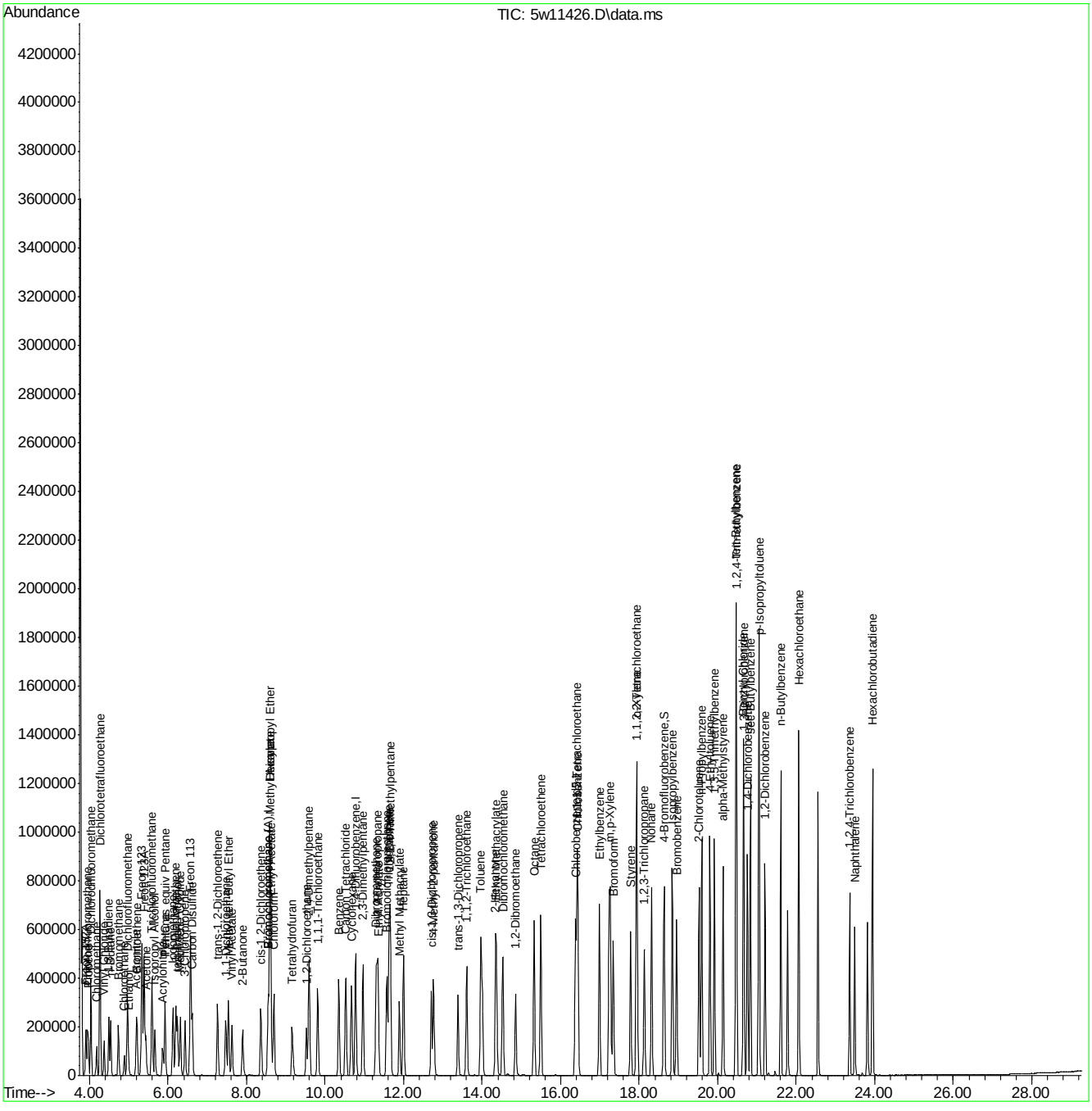
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 08 10:23:02 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11456.D
Acq On : 9 May 2015 8:16 am
Operator : mikel1
Sample : CC419-10
Misc : MS84855,v5w450,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 09 13:50:06 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.551	130	143161	10.00	ppb(v	#-0.02
53) 1,4-Difluorobenzene	10.778	114	520348	10.00	ppb(v	-0.02
75) Chlorobenzene-d5	16.376	82	293233	10.00	ppb(v	-0.03
106) Bromochloromethane (A)	8.551	130	143161	10.00	ppb(v	#-0.02
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.627	95	368077	9.63	ppb(v	-0.04
Spiked Amount 10.000	Range 65 - 128		Recovery = 96.30%			
Target Compounds						Qvalue
3) Freon 152A	3.914	65	103165	11.64	ppb(v	97
4) Chlorodifluoromethane	3.951	67	39475	11.70	ppb(v	100
5) Propene	3.981	41	125200	12.16	ppb(v	99
6) Dichlorodifluoromethane	4.043	85	427247	11.57	ppb(v	100
8) Chloromethane	4.189	50	151561	12.67	ppb(v	100
9) Dichlorotetrafluoroethane	4.275	85	444062	12.25	ppb(v	97
10) Vinyl Chloride	4.385	62	177924	12.41	ppb(v	99
11) 1,3-Butadiene	4.501	54	123103	12.16	ppb(v	98
12) n-Butane	4.550	58	25776	12.59	ppb(v	92
13) Bromomethane	4.746	94	171907	11.75	ppb(v	99
14) Chloroethane	4.899	64	83041	11.86	ppb(v	99
15) Dichlorofluoromethane	4.972	67	372568	11.73	ppb(v	100
16) Acetonitrile	5.199	41	132811	10.43	ppb(v	99
17) Freon 123	5.346	83	419819	11.91	ppb(v	100
18) Freon 123A	5.401	117	210351	11.54	ppb(v	93
19) Bromoethene	5.217	106	164070	12.12	ppb(v	98
20) Trichlorofluoromethane	5.596	101	404951	11.41	ppb(v	99
21) Acetone	5.444	58	75784	11.30	ppb(v	96
22) Pentane	5.933	57	41110	11.97	ppb(v	89
24) Iodomethane	6.135	142	424438	11.07	ppb(v	99
25) Isopropyl Alcohol	5.664	45	296929	11.24	ppb(v	96
26) 1,1-Dichloroethene	6.208	61	254527	11.68	ppb(v	96
27) Freon 113	6.575	101	330162	11.06	ppb(v	95
28) Methylene Chloride	6.318	84	145561	10.95	ppb(v	89
29) Carbon Disulfide	6.624	76	489942	11.57	ppb(v	99
30) Ethanol	4.997	45	67347	9.95	ppb(v	99
31) Acrylonitrile	5.872	53	131346	11.67	ppb(v	99
32) 3-Chloropropene	6.435	76	75076	11.99	ppb(v	84
33) trans-1,2-Dichloroethene	7.267	61	245548	11.73	ppb(v	94
34) tert-Butyl Alcohol	6.245	59	386254	11.61	ppb(v	99
35) Methyl tert-Butyl Ether	7.542	73	431611	11.23	ppb(v	96
36) Vinyl Acetate	7.628	43	464690	12.87	ppb(v	96
37) 1,1-Dichloroethane	7.475	63	304339	11.47	ppb(v	99
38) 2-Butanone	7.903	72	81715	10.98	ppb(v	85
39) Hexane	8.600	57	263761	11.01	ppb(v	97
40) cis-1,2-Dichloroethene	8.368	61	233877	11.69	ppb(v	93
41) Di-isopropyl Ether	8.600	45	652061	12.75	ppb(v	98
42) Ethyl Acetate	8.625	61	61530	11.80	ppb(v	87
43) Methyl Acrylate	8.613	55	341280	11.59	ppb(v	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11456.D
Acq On : 9 May 2015 8:16 am
Operator : mikel1
Sample : CC419-10
Misc : MS84855,v5w450,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 09 13:50:06 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44)	Chloroform	8.698	83	355034	11.03	ppb(v	98
45)	2,4-Dimethylpentane	9.597	57	305806	11.83	ppb(v	97
46)	Tetrahydrofuran	9.163	72	80065	11.02	ppb(v	87
47)	1,1,1-Trichloroethane	9.818	97	316828	10.54	ppb(v	99
48)	1,2-Dichloroethane	9.524	62	216769	11.50	ppb(v	97
49)	Benzene	10.356	78	519826	10.96	ppb(v	99
50)	Carbon Tetrachloride	10.527	117	336793	10.67	ppb(v	99
51)	Cyclohexane	10.674	56	262114	11.59	ppb(v	94
52)	2,3-Dimethylpentane	10.962	71	108501	11.52	ppb(v	92
54)	2,2,4-Trimethylpentane	11.665	57	892540	12.86	ppb(v	99
55)	Heptane	12.002	71	169949	12.30	ppb(v	96
56)	Trichloroethene	11.629	95	235229	11.39	ppb(v	95
57)	1,2-Dichloropropane	11.335	63	214377	12.61	ppb(v	97
58)	Dibromomethane	11.304	174	210186	11.30	ppb(v	91
59)	Ethyl Acrylate	11.353	55	423830	12.23	ppb(v	98
60)	Methyl Methacrylate	11.892	69	187512	11.70	ppb(v	89
61)	1,4-Dioxane	11.641	88	128284	11.00	ppb(v#	76
62)	Bromodichloromethane	11.573	83	402532	11.84	ppb(v	99
63)	cis-1,3-Dichloropropene	12.705	75	314453	11.86	ppb(v	97
64)	4-Methyl-2-pentanone	12.766	58	175253	12.62	ppb(v	93
65)	trans-1,3-Dichloropropene	13.384	75	284633	11.96	ppb(v	98
66)	Toluene	13.966	91	614682	11.27	ppb(v	99
67)	1,1,2-Trichloroethane	13.605	97	223337	11.72	ppb(v	97
68)	2-Hexanone	14.339	58	247058	12.10	ppb(v	96
69)	Ethyl Methacrylate	14.363	69	338376	11.87	ppb(v	97
70)	Dibromochloromethane	14.528	129	399956	11.35	ppb(v	100
71)	Tetrachloroethene	15.495	166	296418	11.16	ppb(v	98
72)	1,2-Dibromoethane	14.853	107	357768	11.46	ppb(v	100
73)	Octane	15.324	43	442730	13.09	ppb(v	94
74)	1,1,1,2-Tetrachloroethane	16.419	131	259458	11.32	ppb(v	98
76)	Chlorobenzene	16.437	112	476754	10.85	ppb(v	96
77)	Ethylbenzene	16.988	91	802604	11.26	ppb(v	98
78)	m,p-Xylene	17.263	91	1248876	21.84	ppb(v	98
79)	Styrene	17.783	104	458632	11.57	ppb(v	98
80)	Nonane	18.315	43	455317	12.60	ppb(v	93
81)	o-Xylene	17.936	91	642773	11.55	ppb(v	98
82)	Bromoform	17.336	173	403867	11.66	ppb(v	100
83)	1,1,2,2-Tetrachloroethane	17.930	83	550891	11.91	ppb(v	99
84)	1,2,3-Trichloropropane	18.132	75	378389	11.84	ppb(v	96
85)	Isopropylbenzene	18.841	105	869724	11.37	ppb(v	98
86)	Bromobenzene	18.951	156	281432	11.25	ppb(v	89
87)	2-Chlorotoluene	19.526	126	212269	11.21	ppb(v	91
88)	n-Propylbenzene	19.594	120	224983	11.40	ppb(v	92
90)	4-Ethyltoluene	19.802	105	860113	11.63	ppb(v	99
91)	1,3,5-Trimethylbenzene	19.918	105	708388	11.29	ppb(v	99
92)	alpha-Methylstyrene	20.132	118	353535	11.88	ppb(v	97
93)	tert-Butylbenzene	20.462	134	145344	11.43	ppb(v	90
94)	1,2,4-Trimethylbenzene	20.475	105	747457	11.91	ppb(v	96
95)	1,3-Dichlorobenzene	20.664	146	479327	11.24	ppb(v	97
96)	Benzyl Chloride	20.646	91	678028	11.95	ppb(v	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11456.D
Acq On : 9 May 2015 8:16 am
Operator : mikel1
Sample : CC419-10
Misc : MS84855,v5w450,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 09 13:50:06 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,4-Dichlorobenzene	20.756	146	471332	11.23	ppb(v	97
98)	sec-Butylbenzene	20.836	134	182246	11.23	ppb(v	91
99)	p-Isopropyltoluene	21.056	134	212566	11.99	ppb(v	98
100)	1,2-Dichlorobenzene	21.203	146	455864	11.27	ppb(v	97
101)	n-Butylbenzene	21.607	134	188611	11.94	ppb(v	85
102)	Hexachloroethane	22.065	201	282720	12.11	ppb(v	94
103)	1,2,4-Trichlorobenzene	23.362	180	278876	11.00	ppb(v	99
104)	Naphthalene	23.491	128	588997	11.52	ppb(v	100
105)	Hexachlorobutadiene	23.943	225	288067	9.64	ppb(v	100
107)	TVHC as equiv Pentane	5.933	TIC	750836	11.63	ppb(v	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

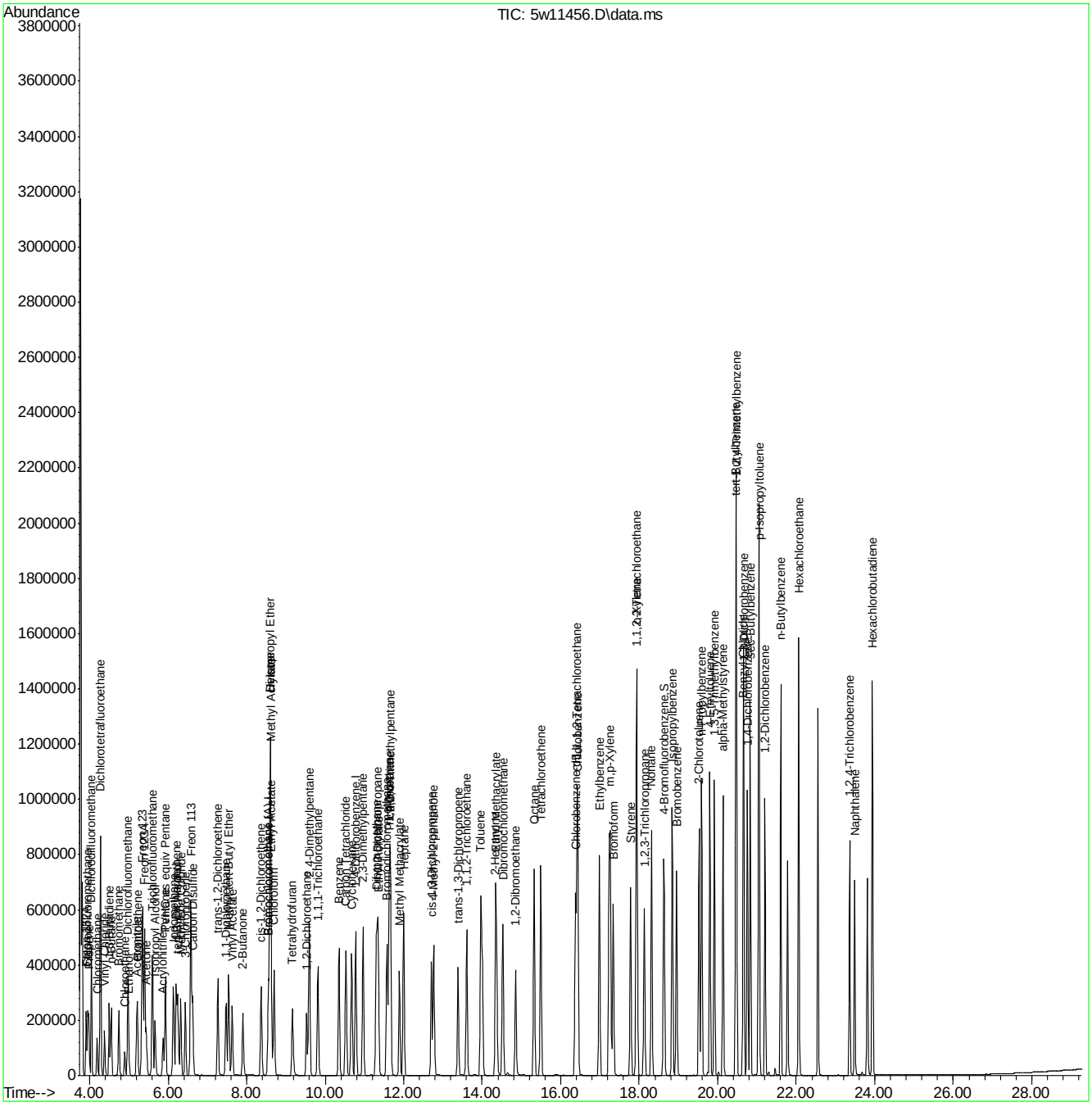
7.7.24

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11456.D
Acq On : 9 May 2015 8:16 am
Operator : mikel1
Sample : CC419-10
Misc : MS84855,v5w450,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 09 13:50:06 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11479.D
Acq On : 11 May 2015 8:27 am
Operator : mikel1
Sample : CC419-10
Misc : MS84920,v5w451,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 06:43:20 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.558	130	134148	10.00	ppb(v	-0.02
53) 1,4-Difluorobenzene	10.778	114	484503	10.00	ppb(v	-0.02
75) Chlorobenzene-d5	16.376	82	257733	10.00	ppb(v	-0.03
106) Bromochloromethane (A)	8.558	130	134148	10.00	ppb(v	-0.02
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.627	95	332022	9.88	ppb(v	-0.04
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.80%			
Target Compounds						Qvalue
3) Freon 152A	3.914	65	80764	9.73	ppb(v	98
4) Chlorodifluoromethane	3.957	67	31653	10.01	ppb(v	97
5) Propene	3.981	41	90304	9.36	ppb(v	98
6) Dichlorodifluoromethane	4.049	85	348013	10.06	ppb(v	100
8) Chloromethane	4.189	50	124106	11.07	ppb(v	99
9) Dichlorotetrafluoroethane	4.275	85	381225	11.22	ppb(v	96
10) Vinyl Chloride	4.385	62	149939	11.16	ppb(v	100
11) 1,3-Butadiene	4.501	54	102997	10.86	ppb(v	99
12) n-Butane	4.550	58	21798	11.36	ppb(v	90
13) Bromomethane	4.746	94	147874	10.79	ppb(v	99
14) Chloroethane	4.899	64	72810	11.09	ppb(v	99
15) Dichlorofluoromethane	4.979	67	330468	11.10	ppb(v	100
16) Acetonitrile	5.199	41	116812	9.79	ppb(v	99
17) Freon 123	5.346	83	368987	11.18	ppb(v	100
18) Freon 123A	5.401	117	182654	10.69	ppb(v	91
19) Bromoethene	5.217	106	143092	11.28	ppb(v	98
20) Trichlorofluoromethane	5.597	101	365797	11.00	ppb(v	100
21) Acetone	5.444	58	66728	10.62	ppb(v	100
22) Pentane	5.933	57	32321	10.04	ppb(v	91
24) Iodomethane	6.135	142	368517	10.26	ppb(v	99
25) Isopropyl Alcohol	5.670	45	254270	10.27	ppb(v	96
26) 1,1-Dichloroethene	6.208	61	203782	9.98	ppb(v	100
27) Freon 113	6.575	101	282556	10.10	ppb(v	97
28) Methylene Chloride	6.318	84	123554	9.92	ppb(v	96
29) Carbon Disulfide	6.624	76	410002	10.33	ppb(v	100
30) Ethanol	5.003	45	58707	9.26	ppb(v	98
31) Acrylonitrile	5.872	53	101374	9.61	ppb(v	99
32) 3-Chloropropene	6.435	76	61962	10.56	ppb(v	93
33) trans-1,2-Dichloroethene	7.267	61	194557	9.92	ppb(v	97
34) tert-Butyl Alcohol	6.245	59	303277	9.72	ppb(v	99
35) Methyl tert-Butyl Ether	7.542	73	349793	9.71	ppb(v	97
36) Vinyl Acetate	7.634	43	346147	10.23	ppb(v	98
37) 1,1-Dichloroethane	7.475	63	245774	9.89	ppb(v	99
38) 2-Butanone	7.903	72	65397	9.38	ppb(v	100
39) Hexane	8.600	57	204248	9.10	ppb(v	99
40) cis-1,2-Dichloroethene	8.368	61	183133	9.77	ppb(v	98
41) Di-isopropyl Ether	8.600	45	488681	10.20	ppb(v	100
42) Ethyl Acetate	8.625	61	48190	9.86	ppb(v	93
43) Methyl Acrylate	8.613	55	264560	9.59	ppb(v	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11479.D
Acq On : 11 May 2015 8:27 am
Operator : mikel1
Sample : CC419-10
Misc : MS84920,v5w451,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 06:43:20 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44)	Chloroform	8.698	83	299865	9.94	ppb(v	100
45)	2,4-Dimethylpentane	9.598	57	237089	9.79	ppb(v	99
46)	Tetrahydrofuran	9.163	72	63291	9.30	ppb(v	96
47)	1,1,1-Trichloroethane	9.818	97	275074	9.77	ppb(v	98
48)	1,2-Dichloroethane	9.530	62	177191	10.03	ppb(v	99
49)	Benzene	10.356	78	424514	9.55	ppb(v	100
50)	Carbon Tetrachloride	10.527	117	297898	10.07	ppb(v	100
51)	Cyclohexane	10.674	56	202574	9.56	ppb(v	97
52)	2,3-Dimethylpentane	10.968	71	86903	9.85	ppb(v	96
54)	2,2,4-Trimethylpentane	11.665	57	694304	10.75	ppb(v	100
55)	Heptane	11.996	71	133760	10.40	ppb(v	97
56)	Trichloroethene	11.622	95	199536	10.37	ppb(v	96
57)	1,2-Dichloropropane	11.335	63	167665	10.59	ppb(v	98
58)	Dibromomethane	11.304	174	187394	10.82	ppb(v	97
59)	Ethyl Acrylate	11.353	55	320972	9.95	ppb(v	99
60)	Methyl Methacrylate	11.892	69	144575	9.68	ppb(v	96
61)	1,4-Dioxane	11.641	88	105746	9.74	ppb(v#	83
62)	Bromodichloromethane	11.574	83	334974	10.58	ppb(v	99
63)	cis-1,3-Dichloropropene	12.705	75	252377	10.22	ppb(v	98
64)	4-Methyl-2-pentanone	12.760	58	133692	10.34	ppb(v	98
65)	trans-1,3-Dichloropropene	13.384	75	229998	10.38	ppb(v	99
66)	Toluene	13.966	91	513751	10.12	ppb(v	99
67)	1,1,2-Trichloroethane	13.605	97	187178	10.55	ppb(v	99
68)	2-Hexanone	14.339	58	188805	9.93	ppb(v	98
69)	Ethyl Methacrylate	14.363	69	271267	10.22	ppb(v	99
70)	Dibromochloromethane	14.522	129	353468	10.77	ppb(v	99
71)	Tetrachloroethene	15.495	166	267266	10.81	ppb(v	100
72)	1,2-Dibromoethane	14.853	107	300369	10.34	ppb(v	99
73)	Octane	15.324	43	325866	10.35	ppb(v	98
74)	1,1,1,2-Tetrachloroethane	16.419	131	231432	10.85	ppb(v	99
76)	Chlorobenzene	16.437	112	415598	10.76	ppb(v	99
77)	Ethylbenzene	16.982	91	663383	10.59	ppb(v	99
78)	m,p-Xylene	17.257	91	1049089	20.87	ppb(v	99
79)	Styrene	17.777	104	386937	11.11	ppb(v	99
80)	Nonane	18.315	43	349545	11.00	ppb(v	98
81)	o-Xylene	17.936	91	542749	11.10	ppb(v	99
82)	Bromoform	17.336	173	363167	11.92	ppb(v	100
83)	1,1,2,2-Tetrachloroethane	17.930	83	456519	11.23	ppb(v	98
84)	1,2,3-Trichloropropane	18.126	75	308687	10.99	ppb(v	98
85)	Isopropylbenzene	18.841	105	741293	11.02	ppb(v	99
86)	Bromobenzene	18.951	156	251682	11.44	ppb(v	98
87)	2-Chlorotoluene	19.520	126	183596	11.03	ppb(v	98
88)	n-Propylbenzene	19.588	120	198507	11.45	ppb(v	94
90)	4-Ethyltoluene	19.802	105	739320	11.37	ppb(v	99
91)	1,3,5-Trimethylbenzene	19.912	105	607458	11.01	ppb(v	99
92)	alpha-Methylstyrene	20.132	118	305473	11.68	ppb(v	98
93)	tert-Butylbenzene	20.463	134	130266	11.66	ppb(v	96
94)	1,2,4-Trimethylbenzene	20.475	105	650211	11.79	ppb(v	98
95)	1,3-Dichlorobenzene	20.658	146	427771	11.41	ppb(v	98
96)	Benzyl Chloride	20.646	91	563187	11.30	ppb(v	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11479.D
Acq On : 11 May 2015 8:27 am
Operator : mikel1
Sample : CC419-10
Misc : MS84920,v5w451,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 06:43:20 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

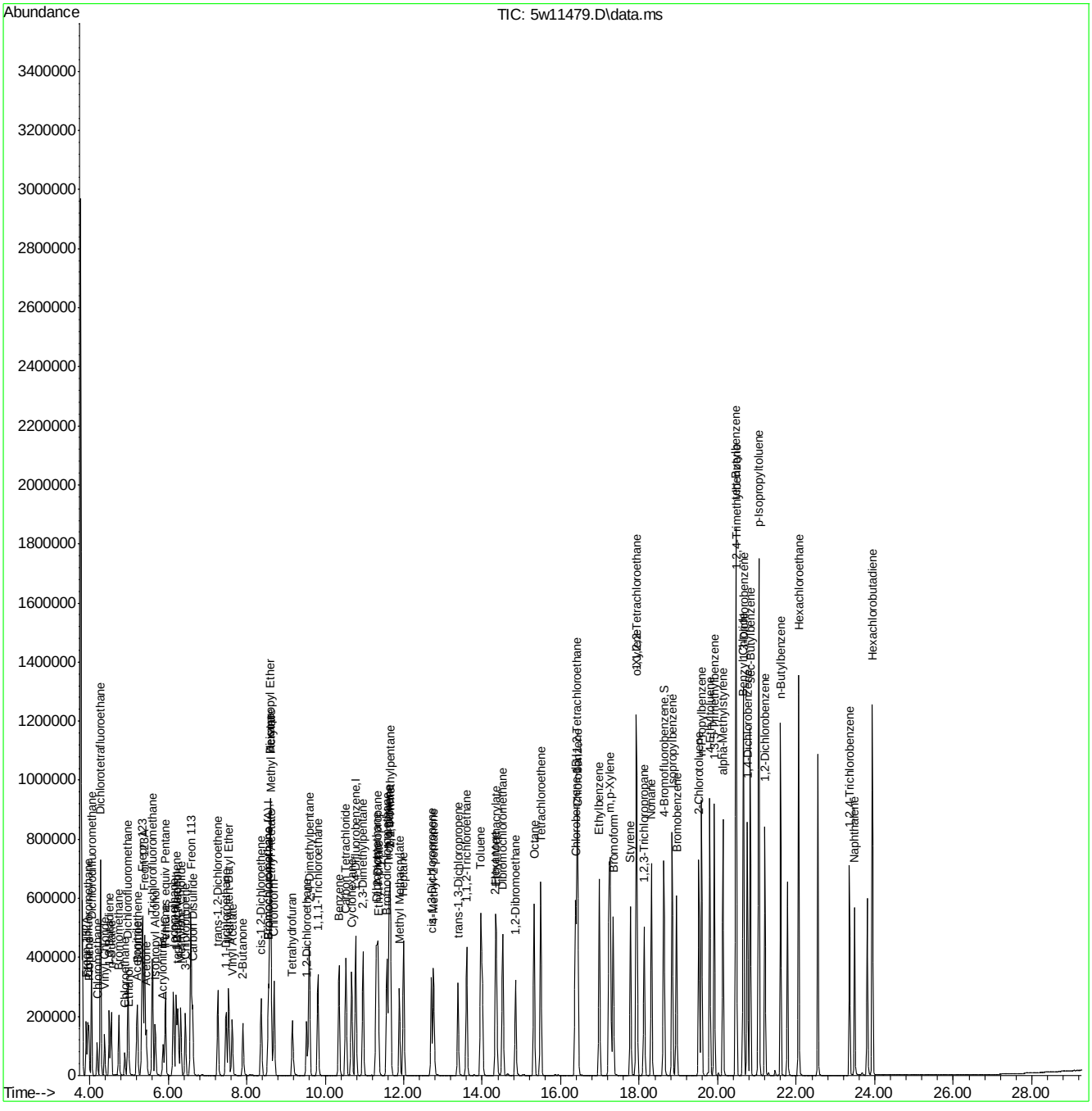
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,4-Dichlorobenzene	20.756	146	418210	11.34	ppb(v	99
98)	sec-Butylbenzene	20.830	134	162060	11.36	ppb(v	94
99)	p-Isopropyltoluene	21.050	134	187874	12.05	ppb(v	94
100)	1,2-Dichlorobenzene	21.203	146	406745	11.44	ppb(v	99
101)	n-Butylbenzene	21.607	134	165836	11.95	ppb(v	98
102)	Hexachloroethane	22.065	201	261906	12.76	ppb(v	96
103)	1,2,4-Trichlorobenzene	23.362	180	240577	10.79	ppb(v	99
104)	Naphthalene	23.485	128	482318	10.73	ppb(v	99
105)	Hexachlorobutadiene	23.937	225	260329	9.91	ppb(v	99
107)	TVHC as equiv Pentane	5.933	TIC	571159	9.44	ppb(v	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11479.D
Acq On : 11 May 2015 8:27 am
Operator : mikel1
Sample : CC419-10
Misc : MS84920,v5w451,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 06:43:20 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11506.D
Acq On : 12 May 2015 9:14 am
Operator : mikel1
Sample : CC419-10
Misc : MS84578,v5w452,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 06:40:54 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.551	130	123323	10.00	ppb(v	#-0.02
53) 1,4-Difluorobenzene	10.772	114	438645	10.00	ppb(v	-0.03
75) Chlorobenzene-d5	16.376	82	242338	10.00	ppb(v	-0.03
106) Bromochloromethane (A)	8.551	130	123323	10.00	ppb(v	#-0.02
System Monitoring Compounds						
89) 4-Bromofluorobenzene	18.627	95	311012	9.84	ppb(v	-0.04
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.40%			
Target Compounds						Qvalue
3) Freon 152A	3.908	65	80582	10.56	ppb(v	95
4) Chlorodifluoromethane	3.951	67	31536	10.85	ppb(v	100
5) Propene	3.975	41	92571	10.44	ppb(v	98
6) Dichlorodifluoromethane	4.043	85	344324	10.82	ppb(v	100
8) Chloromethane	4.190	50	127325	12.35	ppb(v	100
9) Dichlorotetrafluoroethane	4.275	85	363818	11.65	ppb(v	97
10) Vinyl Chloride	4.379	62	146060	11.83	ppb(v	99
11) 1,3-Butadiene	4.502	54	101239	11.61	ppb(v	96
12) n-Butane	4.544	58	21440	12.15	ppb(v	80
13) Bromomethane	4.740	94	139555	11.07	ppb(v	99
14) Chloroethane	4.893	64	70376	11.66	ppb(v	99
15) Dichlorofluoromethane	4.973	67	324160	11.85	ppb(v	100
16) Acetonitrile	5.193	41	123600	11.27	ppb(v	100
17) Freon 123	5.340	83	351789	11.59	ppb(v	100
18) Freon 123A	5.395	117	170946	10.88	ppb(v	84
19) Bromoethene	5.211	106	129392	11.10	ppb(v	98
20) Trichlorofluoromethane	5.597	101	348260	11.39	ppb(v	100
21) Acetone	5.438	58	66859	11.57	ppb(v	92
22) Pentane	5.927	57	31437	10.62	ppb(v	81
24) Iodomethane	6.129	142	327042	9.90	ppb(v	97
25) Isopropyl Alcohol	5.664	45	253674	11.15	ppb(v	98
26) 1,1-Dichloroethene	6.202	61	199344	10.62	ppb(v	96
27) Freon 113	6.575	101	269638	10.49	ppb(v	97
28) Methylene Chloride	6.312	84	118890	10.39	ppb(v	90
29) Carbon Disulfide	6.618	76	400040	10.96	ppb(v	99
30) Ethanol	4.997	45	58721	10.07	ppb(v	99
31) Acrylonitrile	5.866	53	99930	10.30	ppb(v	100
32) 3-Chloropropene	6.435	76	56878	10.54	ppb(v	86
33) trans-1,2-Dichloroethene	7.261	61	185732	10.30	ppb(v	94
34) tert-Butyl Alcohol	6.239	59	286524	9.99	ppb(v	96
35) Methyl tert-Butyl Ether	7.536	73	324536	9.80	ppb(v	93
36) Vinyl Acetate	7.628	43	347825	11.19	ppb(v	97
37) 1,1-Dichloroethane	7.469	63	242963	10.63	ppb(v	100
38) 2-Butanone	7.897	72	61845	9.65	ppb(v	82
39) Hexane	8.594	57	206627	10.01	ppb(v	99
40) cis-1,2-Dichloroethene	8.362	61	174496	10.13	ppb(v	91
41) Di-isopropyl Ether	8.594	45	501569	11.39	ppb(v	98
42) Ethyl Acetate	8.619	61	47866	10.66	ppb(v	80
43) Methyl Acrylate	8.607	55	269984	10.64	ppb(v	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11506.D
Acq On : 12 May 2015 9:14 am
Operator : mikel1
Sample : CC419-10
Misc : MS84578,v5w452,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 06:40:54 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44)	Chloroform	8.692	83	295685	10.66	ppb(v	98
45)	2,4-Dimethylpentane	9.591	57	233024	10.47	ppb(v	98
46)	Tetrahydrofuran	9.157	72	59224	9.47	ppb(v	91
47)	1,1,1-Trichloroethane	9.812	97	263480	10.18	ppb(v	99
48)	1,2-Dichloroethane	9.524	62	177038	10.90	ppb(v	99
49)	Benzene	10.350	78	400244	9.79	ppb(v	98
50)	Carbon Tetrachloride	10.521	117	286651	10.54	ppb(v	99
51)	Cyclohexane	10.668	56	196361	10.08	ppb(v	96
52)	2,3-Dimethylpentane	10.962	71	84465	10.41	ppb(v	92
54)	2,2,4-Trimethylpentane	11.659	57	702078	12.00	ppb(v	99
55)	Heptane	11.996	71	130016	11.16	ppb(v	95
56)	Trichloroethene	11.623	95	191598	11.00	ppb(v	95
57)	1,2-Dichloropropane	11.329	63	168400	11.75	ppb(v	98
58)	Dibromomethane	11.298	174	173707	11.07	ppb(v	92
59)	Ethyl Acrylate	11.353	55	318189	10.89	ppb(v	98
60)	Methyl Methacrylate	11.886	69	139204	10.30	ppb(v	91
61)	1,4-Dioxane	11.635	88	100455	10.22	ppb(v#	83
62)	Bromodichloromethane	11.567	83	330395	11.53	ppb(v	99
63)	cis-1,3-Dichloropropene	12.705	75	235980	10.55	ppb(v	97
64)	4-Methyl-2-pentanone	12.760	58	132751	11.34	ppb(v	96
65)	trans-1,3-Dichloropropene	13.378	75	214696	10.71	ppb(v	98
66)	Toluene	13.966	91	488299	10.62	ppb(v	99
67)	1,1,2-Trichloroethane	13.599	97	181196	11.28	ppb(v	98
68)	2-Hexanone	14.339	58	185696	10.79	ppb(v	98
69)	Ethyl Methacrylate	14.357	69	262842	10.93	ppb(v	98
70)	Dibromochloromethane	14.522	129	333938	11.24	ppb(v	98
71)	Tetrachloroethene	15.489	166	251960	11.25	ppb(v	98
72)	1,2-Dibromoethane	14.847	107	285523	10.85	ppb(v	100
73)	Octane	15.318	43	334523	11.73	ppb(v	94
74)	1,1,1,2-Tetrachloroethane	16.413	131	219396	11.36	ppb(v	98
76)	Chlorobenzene	16.437	112	392392	10.81	ppb(v	97
77)	Ethylbenzene	16.982	91	629244	10.68	ppb(v	98
78)	m,p-Xylene	17.257	91	1073325	22.71	ppb(v	98
79)	Styrene	17.777	104	358045	10.93	ppb(v	97
80)	Nonane	18.309	43	360461	12.07	ppb(v	94
81)	o-Xylene	17.936	91	518504	11.28	ppb(v	98
82)	Bromoform	17.330	173	337685	11.79	ppb(v	99
83)	1,1,2,2-Tetrachloroethane	17.930	83	454198	11.89	ppb(v	98
84)	1,2,3-Trichloropropane	18.126	75	307388	11.63	ppb(v	96
85)	Isopropylbenzene	18.841	105	708074	11.20	ppb(v	99
86)	Bromobenzene	18.945	156	235265	11.38	ppb(v	92
87)	2-Chlorotoluene	19.520	126	170785	10.91	ppb(v	93
88)	n-Propylbenzene	19.588	120	188543	11.56	ppb(v	93
90)	4-Ethyltoluene	19.802	105	707373	11.57	ppb(v	99
91)	1,3,5-Trimethylbenzene	19.912	105	589855	11.37	ppb(v	98
92)	alpha-Methylstyrene	20.132	118	287814	11.71	ppb(v	98
93)	tert-Butylbenzene	20.463	134	122269	11.63	ppb(v	90
94)	1,2,4-Trimethylbenzene	20.475	105	630459	12.15	ppb(v	97
95)	1,3-Dichlorobenzene	20.658	146	412508	11.70	ppb(v	97
96)	Benzyl Chloride	20.646	91	558116	11.91	ppb(v	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11506.D
Acq On : 12 May 2015 9:14 am
Operator : mikel1
Sample : CC419-10
Misc : MS84578,v5w452,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 06:40:54 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration

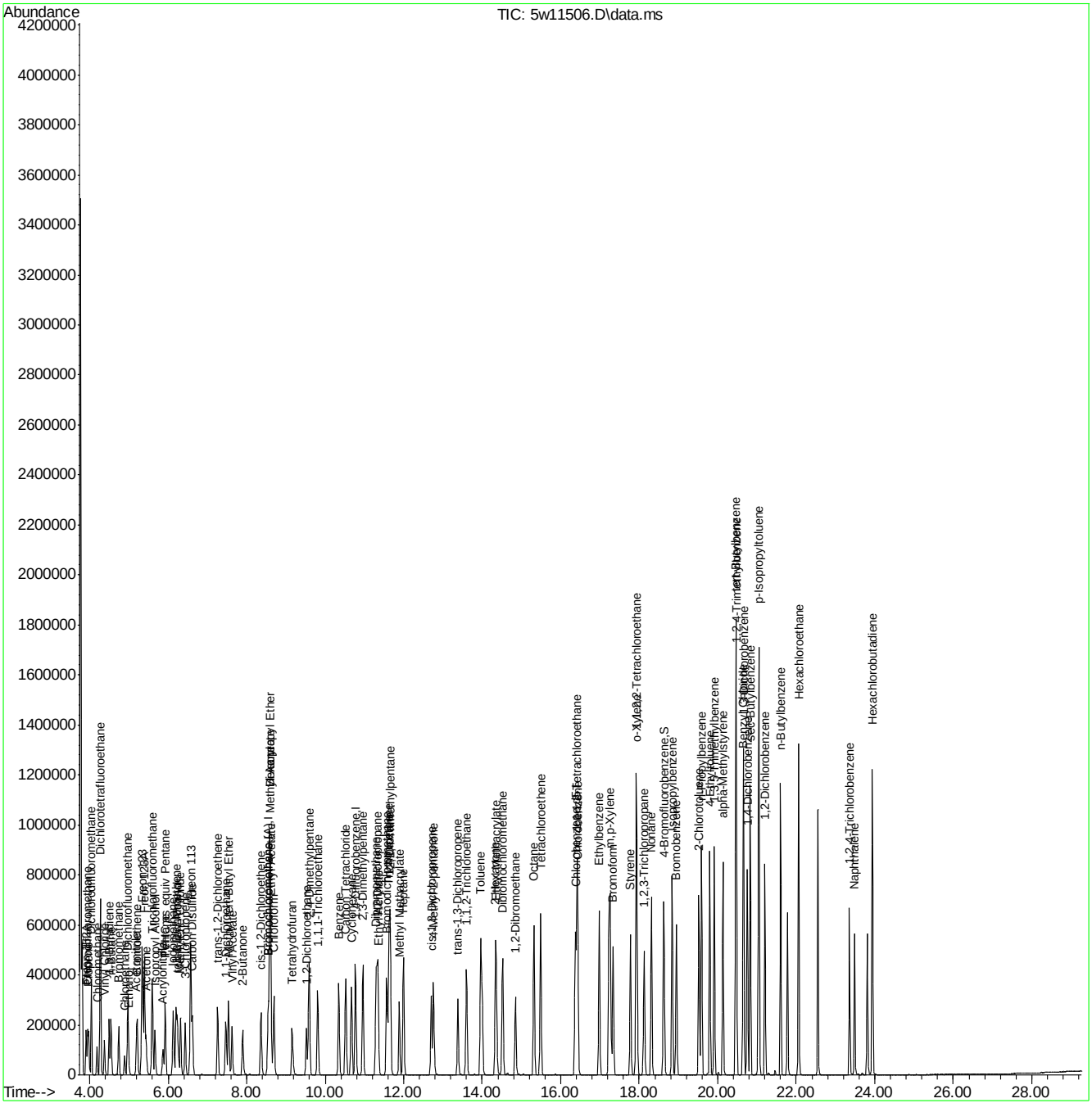
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,4-Dichlorobenzene	20.756	146	398281	11.49	ppb(v	98
98)	sec-Butylbenzene	20.830	134	153712	11.46	ppb(v	89
99)	p-Isopropyltoluene	21.050	134	178708	12.19	ppb(v	91
100)	1,2-Dichlorobenzene	21.203	146	383905	11.48	ppb(v	98
101)	n-Butylbenzene	21.607	134	156423	11.98	ppb(v	92
102)	Hexachloroethane	22.065	201	246345	12.77	ppb(v	99
103)	1,2,4-Trichlorobenzene	23.362	180	224064	10.69	ppb(v	100
104)	Naphthalene	23.485	128	458868	10.86	ppb(v	100
105)	Hexachlorobutadiene	23.937	225	245097	9.93	ppb(v	99
107)	TVHC as equiv Pentane	5.927	TIC	593491	10.67	ppb(v	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 5w11506.D
Acq On : 12 May 2015 9:14 am
Operator : mikel1
Sample : CC419-10
Misc : MS84578,v5w452,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 06:40:54 2015
Quant Method : C:\msdchem\1\METHODS\m5w419.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Fri Apr 03 14:39:01 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50852.D Vial: 1
Acq On : 8 Apr 2015 9:03 pm Operator: danat
Sample : ICC2031-10 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 09:33:00 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	9.34	128	109176	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	11.08	114	473536	10.00	PPBV	0.00
67) CHLOROBENZENE-D5	15.36	82	215001	10.00	PPBV	0.00
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	16.97	95	249413	10.00	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 100.00%			
Target Compounds						Qvalue
3) FREON 152A	5.07	65	74622	10.00	PPBV	100
4) CHLORODIFLUOROMETHANE	5.11	67	32595	10.00	PPBV	100
5) DICHLORODIFLUOROMETHANE	5.22	85	361897	10.00	PPBV	100
6) PROPYLENE	5.15	41	92468	10.00	PPBV	100
7) FREON 114	5.46	85	368686	10.00	PPBV	100
9) CHLOROMETHANE	5.38	52	36585	10.00	PPBV	100
10) VINYL CHLORIDE	5.58	62	146184	10.00	PPBV	100
11) 1,3-BUTADIENE	5.71	54	113233	10.00	PPBV	100
12) n-BUTANE	5.76	58	30267	10.00	PPBV	100
13) BROMOMETHANE	5.96	94	134976	10.00	PPBV	100
14) CHLOROETHANE	6.11	64	80903	10.00	PPBV	100
15) DICHLOROFLUOROMETHANE	6.18	67	299932	10.00	PPBV	100
16) ACROLEIN	6.52	56	56102	10.00	PPBV	100
17) TRICHLOROFLUOROMETHANE	6.78	101	363643	10.00	PPBV	100
18) ISOPROPYL ALCOHOL	6.82	45	206788	10.00	PPBV	100
19) ACETONE	6.64	58	65729	10.00	PPBV	100
21) ACRYLONITRILE	7.03	53	107417	10.00	PPBV	100
22) PENTANE	7.07	57	42541	10.00	PPBV	100
23) IODOMETHANE	7.30	142	396832	10.00	PPBV	100
24) 1,1-DICHLOROETHYLENE	7.34	96	133578	10.00	PPBV	100
25) CARBON DISULFIDE	7.75	76	366163	10.00	PPBV	100
26) ETHANOL	6.19	45	48962	9.98	PPBV	100
27) ACETONITRILE	6.41	41	100534	10.00	PPBV	100
28) BROMOETHENE	6.43	106	140027	10.00	PPBV	100
29) METHYLENE CHLORIDE	7.43	84	113607	10.00	PPBV	100
30) 3-CHLOROPROPENE	7.54	76	63739	10.00	PPBV	100
31) FREON 113	7.65	151	265385	10.00	PPBV	100
32) TRANS-1,2-DICHLOROETHYLENE	8.25	96	145169	10.00	PPBV	100
33) TERTIARY BUTYL ALCOHOL	7.35	59	245390	10.00	PPBV	100
34) METHYL TERTIARY BUTYL ETHE	8.48	73	384709	10.00	PPBV	100
35) TETRAHYDROFURAN	9.84	72	61529	10.00	PPBV	100
36) HEXANE	9.34	57	210582	10.00	PPBV	100
37) VINYL ACETATE	8.53	86	37847	10.00	PPBV	100
38) 1,1-DICHLOROETHANE	8.44	63	223818	10.00	PPBV	100
39) METHYL ETHYL KETONE	8.78	72	62023	10.00	PPBV	100
40) cis-1,2-DICHLOROETHYLENE	9.18	96	149525	10.00	PPBV	100
41) DI-ISOPROPYL ETHER	9.32	87	124360	10.00	PPBV	100
42) ETHYL ACETATE	9.34	61	41795	10.00	PPBV	100
43) METHYL ACRYLATE	9.35	55	234968	10.00	PPBV	100
44) CHLOROFORM	9.44	83	281589	10.00	PPBV	100
45) 2,4-DIMETHYLPENTANE	10.14	57	239527	10.00	PPBV	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50852.D Vial: 1
Acq On : 8 Apr 2015 9:03 pm Operator: danat
Sample : ICC2031-10 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 09:33:00 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,1-TRICHLOROETHANE	10.36	97	296175	10.00	PPBV	100
47)	CARBON TETRACHLORIDE	10.92	117	332489	10.00	PPBV	100
48)	1,2-DICHLOROETHANE	10.12	62	171398	10.00	PPBV	100
50)	BENZENE	10.79	78	433704	10.00	PPBV	100
51)	CYCLOHEXANE	11.05	84	204412	10.00	PPBV	100
52)	2,3-DIMETHYLPENTANE	11.22	71	97226	10.00	PPBV	100
53)	TRICHLOROETHYLENE	11.77	95	202002	10.00	PPBV	100
54)	DIBROMOMETHANE	11.53	174	221247	10.00	PPBV	100
55)	1,2-DICHLOROPROPANE	11.55	63	143621	10.00	PPBV	100
56)	ETHYL ACRYLATE	11.49	55	264202	10.00	PPBV	100
57)	BROMODICHLOROMETHANE	11.73	83	316828	10.00	PPBV	100
58)	2,2,4-TRIMETHYLPENTANE	11.77	57	673958	10.00	PPBV	100
59)	1,4-DIOXANE	11.77	88	88601	10.00	PPBV	100
60)	METHYL METHACRYLATE	11.91	69	146990	10.00	PPBV	100
61)	HEPTANE	12.00	43	227238	10.00	PPBV	100
62)	METHYL ISOBUTYL KETONE	12.60	43	237708	10.00	PPBV	100
63)	cis-1,3-DICHLOROPROPENE	12.58	75	247171	10.00	PPBV	100
64)	TOLUENE	13.55	92	334027	10.00	PPBV	100
65)	trans-1,3-DICHLOROPROPENE	13.08	75	216401	10.00	PPBV	100
66)	1,1,2-TRICHLOROETHANE	13.27	83	141658	10.00	PPBV	100
68)	ETHYL METHACRYLATE	13.77	69	229083	10.00	PPBV	100
69)	2-HEXANONE	13.78	58	129414	10.01	PPBV	100
70)	TETRACHLOROETHYLENE	14.70	164	260704	10.00	PPBV	100
71)	DIBROMOCHLOROMETHANE	14.00	129	352113	10.01	PPBV	100
72)	1,2-DIBROMOETHANE	14.25	107	276059	10.01	PPBV	100
73)	OCTANE	14.49	43	312760	10.00	PPBV	100
74)	1,1,1,2-TETRACHLOROETHANE	15.39	131	256402	10.00	PPBV	100
75)	CHLOROBENZENE	15.41	112	460172	10.00	PPBV	100
76)	ETHYLBENZENE	15.79	91	681587	10.00	PPBV	100
77)	m,p-XYLENE	15.98	106	588309	20.00	PPBV	100
78)	o-XYLENE	16.48	106	273508	10.00	PPBV	100
79)	STYRENE	16.37	104	439059	10.00	PPBV	100
80)	1,2,3-TRICHLOROPROPANE	16.62	75	251074	10.00	PPBV	100
81)	NONANE	16.66	43	329021	10.00	PPBV	100
82)	BROMOFORM	16.10	173	360612	10.00	PPBV	100
84)	1,1,2,2-TETRACHLOROETHANE	16.48	83	352073	10.00	PPBV	100
85)	ISOPROPYLBENZENE	17.10	105	802206	10.00	PPBV	100
86)	BROMOBENZENE	17.23	156	264231	10.00	PPBV	100
87)	2-CHLOROTOLUENE	17.63	126	195920	10.00	PPBV	100
88)	n-PROPYLBENZENE	17.65	120	223823	10.00	PPBV	100
89)	4-ETHYLTOLUENE	17.80	105	702151	10.00	PPBV	100
90)	1,3,5-TRIMETHYLBENZENE	17.88	105	669370	10.00	PPBV	100
91)	ALPHA-METHYLSTYRENE	18.06	118	311722	10.00	PPBV	100
92)	TERT-BUTYLBENZENE	18.33	134	166421	10.00	PPBV	100
93)	1,2,4-TRIMETHYLBENZENE	18.33	105	620279	10.00	PPBV	100
94)	m-DICHLOROBENZENE	18.52	146	393412	10.00	PPBV	100
95)	BENZYL CHLORIDE	18.50	91	420020	10.00	PPBV	100
96)	p-DICHLOROBENZENE	18.59	146	395606	10.00	PPBV	100
97)	SEC-BUTYLBENZENE	18.63	134	197535	10.00	PPBV	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50852.D Vial: 1
Acq On : 8 Apr 2015 9:03 pm Operator: danat
Sample : ICC2031-10 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 09:33:00 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

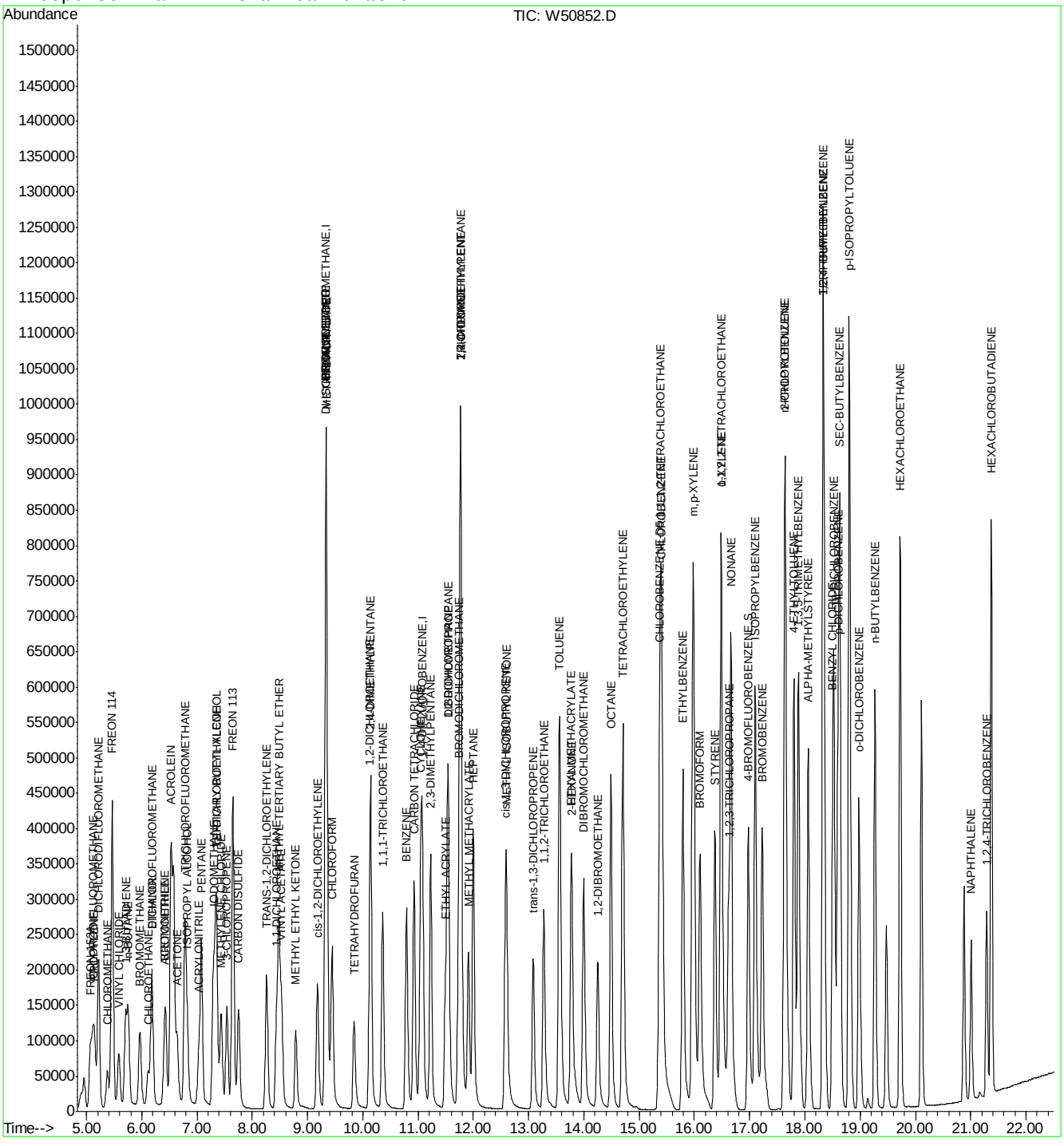
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	p-ISOPROPYLTOLUENE	18.80	134	201002	10.00	PPBV	100
99)	o-DICHLOROBENZENE	18.98	146	356999	10.00	PPBV	100
100)	n-BUTYLBENZENE	19.27	134	171172	10.00	PPBV	100
101)	HEXACHLOROETHANE	19.72	201	271396	10.00	PPBV	100
102)	HEXACHLOROBUTADIENE	21.37	225	259356	10.00	PPBV	100
103)	1,2,4-TRICHLOROBENZENE	21.29	180	139999	10.00	PPBV	100
104)	NAPHTHALENE	21.01	128	286006	10.00	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50852.D Vial: 1
Acq On : 8 Apr 2015 9:03 pm Operator: danat
Sample : ICC2031-10 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 9 9:33 2015 Quant Results File: MW2031.RES

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50853.D Vial: 1
Acq On : 8 Apr 2015 9:44 pm Operator: danat
Sample : IC2031-5 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 09:33:01 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	9.33	128	108740	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	11.08	114	482742	10.00	PPBV	0.00
67) CHLOROBENZENE-D5	15.36	82	218267	10.00	PPBV	0.00
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	16.97	95	265581	10.49	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 104.90%			
Target Compounds						Qvalue
3) FREON 152A	5.07	65	39969	5.38	PPBV	99
4) CHLORODIFLUOROMETHANE	5.11	67	17609	5.42	PPBV	100
5) DICHLORODIFLUOROMETHANE	5.22	85	194306	5.39	PPBV	100
6) PROPYLENE	5.15	41	50269	5.46	PPBV	99
7) FREON 114	5.46	85	195550	5.33	PPBV	99
9) CHLOROMETHANE	5.37	52	19446	5.34	PPBV #	87
10) VINYL CHLORIDE	5.58	62	78368	5.38	PPBV	100
11) 1,3-BUTADIENE	5.71	54	60711	5.38	PPBV	99
12) n-BUTANE	5.76	58	16108	5.34	PPBV	98
13) BROMOMETHANE	5.96	94	73409	5.46	PPBV	98
14) CHLOROETHANE	6.11	64	43749	5.43	PPBV	90
15) DICHLOROFLUOROMETHANE	6.18	67	163696	5.48	PPBV	100
16) ACROLEIN	6.52	56	27165	4.86	PPBV	99
17) TRICHLOROFLUOROMETHANE	6.78	101	195113	5.39	PPBV	100
18) ISOPROPYL ALCOHOL	6.82	45	98946	4.80	PPBV	98
19) ACETONE	6.63	58	32300	4.93	PPBV	91
21) ACRYLONITRILE	7.03	53	52991	4.95	PPBV	99
22) PENTANE	7.08	57	23012	5.43	PPBV	99
23) IODOMETHANE	7.29	142	211965	5.36	PPBV	100
24) 1,1-DICHLOROETHYLENE	7.34	96	72903	5.48	PPBV	97
25) CARBON DISULFIDE	7.75	76	194826	5.34	PPBV	100
26) ETHANOL	6.19	45	24596	5.04	PPBV	100
27) ACETONITRILE	6.40	41	49747	4.97	PPBV	100
28) BROMOETHENE	6.43	106	75634	5.42	PPBV	100
29) METHYLENE CHLORIDE	7.44	84	60731	5.37	PPBV	99
30) 3-CHLOROPROPENE	7.54	76	33410	5.26	PPBV	98
31) FREON 113	7.64	151	140803	5.33	PPBV	99
32) TRANS-1,2-DICHLOROETHYLENE	8.25	96	77582	5.37	PPBV	99
33) TERTIARY BUTYL ALCOHOL	7.35	59	118470	4.85	PPBV	99
34) METHYL TERTIARY BUTYL ETHE	8.49	73	185638	4.84	PPBV	99
35) TETRAHYDROFURAN	9.85	72	29000	4.73	PPBV	100
36) HEXANE	9.33	57	106538	5.08	PPBV	99
37) VINYL ACETATE	8.53	86	18078	4.80	PPBV	99
38) 1,1-DICHLOROETHANE	8.44	63	114547	5.14	PPBV	99
39) METHYL ETHYL KETONE	8.78	72	28250	4.57	PPBV	95
40) cis-1,2-DICHLOROETHYLENE	9.18	96	78141	5.25	PPBV	99
41) DI-ISOPROPYL ETHER	9.32	87	58413	4.72	PPBV	99
42) ETHYL ACETATE	9.34	61	18697	4.49	PPBV #	88
43) METHYL ACRYLATE	9.35	55	110938	4.74	PPBV	99
44) CHLOROFORM	9.44	83	144925	5.17	PPBV	100
45) 2,4-DIMETHYLPENTANE	10.14	57	119266	5.00	PPBV	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50853.D Vial: 1
Acq On : 8 Apr 2015 9:44 pm Operator: danat
Sample : IC2031-5 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 09:33:01 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,1,1-TRICHLOROETHANE	10.36	97	153208	5.19	PPBV		100
47)	CARBON TETRACHLORIDE	10.92	117	172312	5.20	PPBV		99
48)	1,2-DICHLOROETHANE	10.13	62	87531	5.13	PPBV		100
50)	BENZENE	10.79	78	221895	5.02	PPBV		100
51)	CYCLOHEXANE	11.05	84	107259	5.15	PPBV		96
52)	2,3-DIMETHYLPENTANE	11.22	71	49648	5.01	PPBV		97
53)	TRICHLOROETHYLENE	11.77	95	103094	5.01	PPBV		100
54)	DIBROMOMETHANE	11.53	174	113152	5.02	PPBV		99
55)	1,2-DICHLOROPROPANE	11.55	63	71113	4.86	PPBV		99
56)	ETHYL ACRYLATE	11.49	55	115562	4.29	PPBV		99
57)	BROMODICHLOROMETHANE	11.73	83	160162	4.96	PPBV		100
58)	2,2,4-TRIMETHYLPENTANE	11.77	57	334302	4.87	PPBV		100
59)	1,4-DIOXANE	11.78	88	41060	4.55	PPBV		99
60)	METHYL METHACRYLATE	11.91	69	65366	4.36	PPBV		100
61)	HEPTANE	12.00	43	112456	4.85	PPBV		99
62)	METHYL ISOBUTYL KETONE	12.60	43	97373	4.02	PPBV		97
63)	cis-1,3-DICHLOROPROPENE	12.58	75	120375	4.78	PPBV		100
64)	TOLUENE	13.55	92	163678	4.81	PPBV		99
65)	trans-1,3-DICHLOROPROPENE	13.08	75	105880	4.80	PPBV		98
66)	1,1,2-TRICHLOROETHANE	13.27	83	69947	4.84	PPBV		99
68)	ETHYL METHACRYLATE	13.77	69	96237	4.14	PPBV		100
69)	2-HEXANONE	13.78	58	56336	4.29	PPBV		97
70)	TETRACHLOROETHYLENE	14.70	164	133812	5.06	PPBV		99
71)	DIBROMOCHLOROMETHANE	13.99	129	176287	4.94	PPBV		99
72)	1,2-DIBROMOETHANE	14.25	107	133620	4.77	PPBV		100
73)	OCTANE	14.49	43	156329	4.92	PPBV		100
74)	1,1,1,2-TETRACHLOROETHANE	15.39	131	127485	4.90	PPBV	#	53
75)	CHLOROBENZENE	15.41	112	227457	4.87	PPBV		100
76)	ETHYLBENZENE	15.79	91	332270	4.80	PPBV		100
77)	m,p-XYLENE	15.98	106	283011	9.48	PPBV		100
78)	o-XYLENE	16.48	106	130482	4.70	PPBV		99
79)	STYRENE	16.37	104	210064	4.71	PPBV		99
80)	1,2,3-TRICHLOROPROPANE	16.62	75	118763	4.66	PPBV		99
81)	NONANE	16.66	43	160811	4.81	PPBV		100
82)	BROMOFORM	16.10	173	172968	4.72	PPBV		100
84)	1,1,2,2-TETRACHLOROETHANE	16.48	83	165174	4.62	PPBV		99
85)	ISOPROPYLBENZENE	17.10	105	388915	4.78	PPBV		100
86)	BROMOBENZENE	17.23	156	127765	4.76	PPBV		99
87)	2-CHLOROTOLUENE	17.62	126	94900	4.77	PPBV	#	67
88)	n-PROPYLBENZENE	17.65	120	106049	4.67	PPBV		98
89)	4-ETHYLTOLUENE	17.80	105	331113	4.65	PPBV		100
90)	1,3,5-TRIMETHYLBENZENE	17.88	105	318707	4.69	PPBV		100
91)	ALPHA-METHYLSTYRENE	18.06	118	144796	4.58	PPBV		100
92)	TERT-BUTYLBENZENE	18.33	134	78173	4.63	PPBV		99
93)	1,2,4-TRIMETHYLBENZENE	18.34	105	288679	4.58	PPBV		99
94)	m-DICHLOROBENZENE	18.52	146	183017	4.58	PPBV		100
95)	BENZYL CHLORIDE	18.50	91	183568	4.31	PPBV		100
96)	p-DICHLOROBENZENE	18.59	146	183957	4.58	PPBV		100
97)	SEC-BUTYLBENZENE	18.63	134	92721	4.62	PPBV		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50853.D Vial: 1
Acq On : 8 Apr 2015 9:44 pm Operator: danat
Sample : IC2031-5 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 09:33:01 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

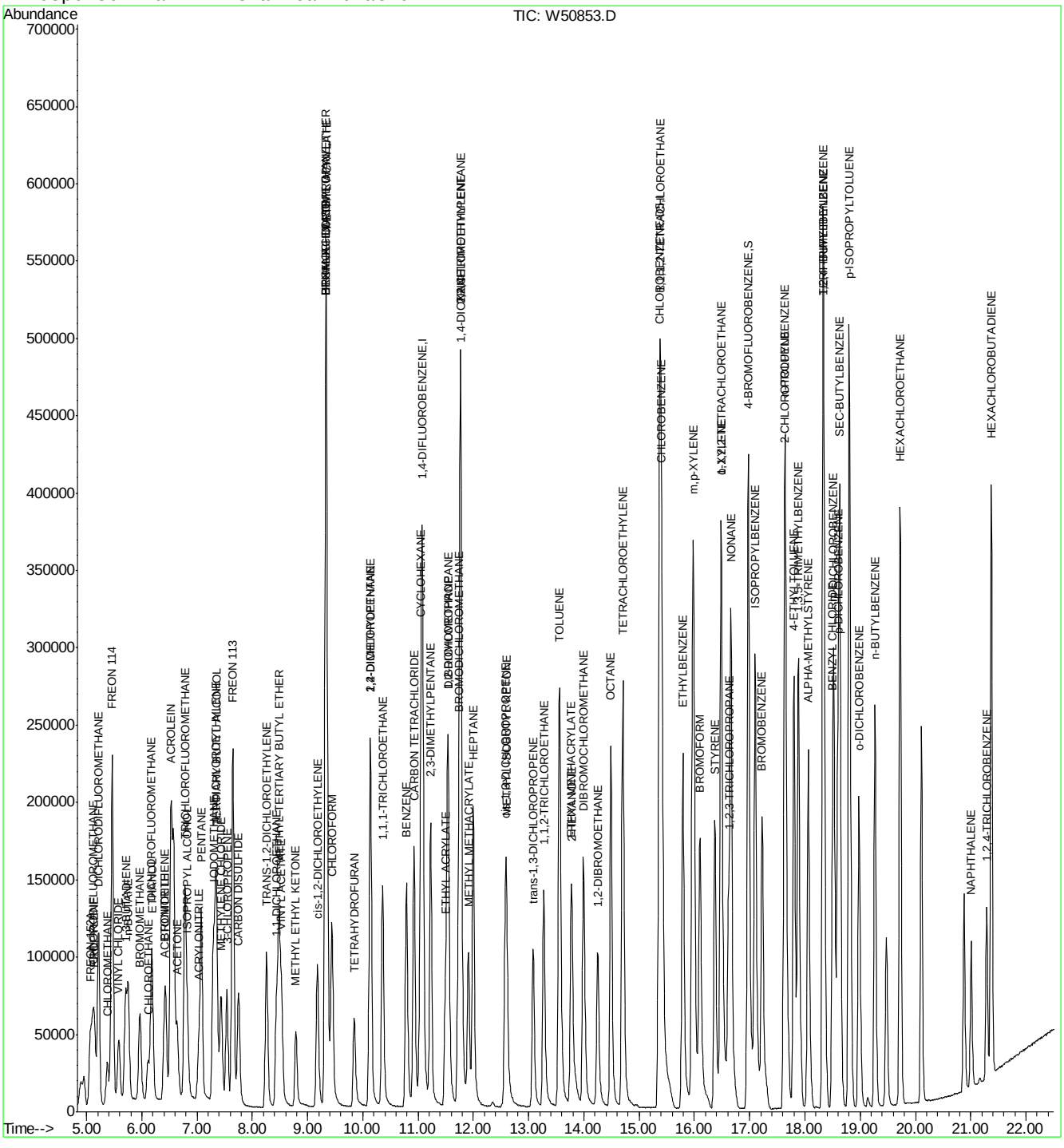
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	p-ISOPROPYLTOLUENE	18.80	134	92004	4.51	PPBV	100
99)	o-DICHLOROBENZENE	18.98	146	167754	4.63	PPBV	100
100)	n-BUTYLBENZENE	19.27	134	75822	4.36	PPBV	99
101)	HEXACHLOROETHANE	19.72	201	130958	4.75	PPBV	99
102)	HEXACHLOROBUTADIENE	21.37	225	124475	4.73	PPBV	99
103)	1,2,4-TRICHLOROBENZENE	21.29	180	60284	4.24	PPBV	99
104)	NAPHTHALENE	21.01	128	121909	4.20	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50853.D Vial: 1
Acq On : 8 Apr 2015 9:44 pm Operator: danat
Sample : IC2031-5 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 9 9:35 2015 Quant Results File: MW2031.RES

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Jessica Reitan-Chu 04/15/15 14:24

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50854.D Vial: 2
Acq On : 8 Apr 2015 10:24 pm Operator: danat
Sample : IC2031-0.5 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 09:33:01 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	9.33	128	106117	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	11.08	114	478232	10.00	PPBV	0.00
67) CHLOROBENZENE-D5	15.36	82	205227	10.00	PPBV	0.00

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	16.97	95	248200	10.43	PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 104.30%

Target Compounds						Qvalue
3) FREON 152A	5.07	65	3294	0.45	PPBV	90
4) CHLORODIFLUOROMETHANE	5.12	67	1485	0.47	PPBV	93
5) DICHLORODIFLUOROMETHANE	5.22	85	16571	0.47	PPBV	98
6) PROPYLENE	5.15	41	4896	0.54	PPBV	98
7) FREON 114	5.46	85	16708	0.47	PPBV	98
9) CHLOROMETHANE	5.39	52	1670	0.47	PPBV #	65
10) VINYL CHLORIDE	5.58	62	6667	0.47	PPBV	99
11) 1,3-BUTADIENE	5.71	54	5404	0.49	PPBV	89
12) n-BUTANE	5.76	58	1403	0.48	PPBV #	87
13) BROMOMETHANE	5.97	94	6301	0.48	PPBV	84
14) CHLOROETHANE	6.11	64	3683	0.47	PPBV	91
15) DICHLOROFLUOROMETHANE	6.18	67	14699	0.50	PPBV	94
16) ACROLEIN	6.53	56	2910m	0.53	PPBV	
17) TRICHLOROFLUOROMETHANE	6.79	101	16073	0.45	PPBV	98
18) ISOPROPYL ALCOHOL	6.83	45	12980	0.65	PPBV	90
19) ACETONE	6.65	58	3960	0.62	PPBV	99
21) ACRYLONITRILE	7.04	53	6446	0.62	PPBV	95
22) PENTANE	7.07	57	2589	0.63	PPBV #	76
23) IODOMETHANE	7.29	142	17528	0.45	PPBV	99
24) 1,1-DICHLOROETHYLENE	7.34	96	6556	0.50	PPBV	89
25) CARBON DISULFIDE	7.75	76	16710	0.47	PPBV	96
26) ETHANOL	6.19	45	4670m	0.98	PPBV	
27) ACETONITRILE	6.42	41	6735	0.69	PPBV	92
28) BROMOETHENE	6.43	106	6308	0.46	PPBV #	98
29) METHYLENE CHLORIDE	7.43	84	5796	0.52	PPBV	99
30) 3-CHLOROPROPENE	7.54	76	2761	0.45	PPBV #	78
31) FREON 113	7.65	151	11379	0.44	PPBV	100
32) TRANS-1,2-DICHLOROETHYLENE	8.26	96	7088	0.50	PPBV	92
33) TERTIARY BUTYL ALCOHOL	7.36	59	12564	0.53	PPBV	78
34) METHYL TERTIARY BUTYL ETHE	8.49	73	17922	0.48	PPBV	97
35) TETRAHYDROFURAN	9.86	72	2625	0.44	PPBV #	89
36) HEXANE	9.33	57	9100	0.44	PPBV	95
37) VINYL ACETATE	8.54	86	1504	0.41	PPBV #	39
38) 1,1-DICHLOROETHANE	8.44	63	9903	0.46	PPBV	99
39) METHYL ETHYL KETONE	8.79	72	3077	0.51	PPBV	97
40) cis-1,2-DICHLOROETHYLENE	9.18	96	7407	0.51	PPBV	89
41) DI-ISOPROPYL ETHER	9.33	87	5515	0.46	PPBV	97
42) ETHYL ACETATE	9.36	61	1793	0.44	PPBV #	17
43) METHYL ACRYLATE	9.35	55	11658	0.51	PPBV	96
44) CHLOROFORM	9.44	83	12629	0.46	PPBV	98
45) 2,4-DIMETHYLPENTANE	10.14	57	10032	0.43	PPBV	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50854.D Vial: 2
Acq On : 8 Apr 2015 10:24 pm Operator: danat
Sample : IC2031-0.5 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 09:33:01 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,1,1-TRICHLOROETHANE	10.36	97	13314	0.46	PPBV		99
47)	CARBON TETRACHLORIDE	10.92	117	14948	0.46	PPBV		99
48)	1,2-DICHLOROETHANE	10.12	62	7773	0.47	PPBV		96
50)	BENZENE	10.78	78	19502	0.45	PPBV		99
51)	CYCLOHEXANE	11.05	84	9408	0.46	PPBV	#	33
52)	2,3-DIMETHYLPENTANE	11.22	71	4065	0.41	PPBV		85
53)	TRICHLOROETHYLENE	11.77	95	8625	0.42	PPBV		97
54)	DIBROMOMETHANE	11.53	174	10172	0.46	PPBV		99
55)	1,2-DICHLOROPROPANE	11.55	63	6261	0.43	PPBV		97
56)	ETHYL ACRYLATE	11.49	55	13528	0.51	PPBV	#	94
57)	BROMODICHLOROMETHANE	11.73	83	13457	0.42	PPBV		97
58)	2,2,4-TRIMETHYLPENTANE	11.77	57	28188	0.41	PPBV		100
59)	1,4-DIOXANE	11.79	88	5495	0.61	PPBV	#	43
60)	METHYL METHACRYLATE	11.91	69	6848	0.46	PPBV		96
61)	HEPTANE	12.00	43	10732	0.47	PPBV		92
62)	METHYL ISOBUTYL KETONE	12.61	43	13309	0.55	PPBV		89
63)	cis-1,3-DICHLOROPROPENE	12.58	75	10468	0.42	PPBV		96
64)	TOLUENE	13.55	92	14323	0.42	PPBV		98
65)	trans-1,3-DICHLOROPROPENE	13.08	75	9608	0.44	PPBV		97
66)	1,1,2-TRICHLOROETHANE	13.27	83	6093	0.43	PPBV		98
68)	ETHYL METHACRYLATE	13.77	69	10575	0.48	PPBV		94
69)	2-HEXANONE	13.80	58	7477	0.61	PPBV	#	77
70)	TETRACHLOROETHYLENE	14.70	164	11630	0.47	PPBV		99
71)	DIBROMOCHLOROMETHANE	13.99	129	14386	0.43	PPBV		99
72)	1,2-DIBROMOETHANE	14.25	107	11973	0.45	PPBV		99
73)	OCTANE	14.49	43	14108	0.47	PPBV		93
74)	1,1,1,2-TETRACHLOROETHANE	15.39	131	11129	0.45	PPBV	#	1
75)	CHLOROBENZENE	15.41	112	20316	0.46	PPBV		88
76)	ETHYLBENZENE	15.79	91	29566	0.45	PPBV		99
77)	m,p-XYLENE	15.98	106	25365	0.90	PPBV		99
78)	o-XYLENE	16.49	106	11779	0.45	PPBV		99
79)	STYRENE	16.37	104	18392	0.44	PPBV		100
80)	1,2,3-TRICHLOROPROPANE	16.63	75	12057	0.50	PPBV		95
81)	NONANE	16.66	43	13520	0.43	PPBV		94
82)	BROMOFORM	16.10	173	14619	0.42	PPBV		96
84)	1,1,2,2-TETRACHLOROETHANE	16.48	83	15825	0.47	PPBV		99
85)	ISOPROPYLBENZENE	17.10	105	35349	0.46	PPBV		99
86)	BROMOBENZENE	17.23	156	11653	0.46	PPBV		100
87)	2-CHLOROTOLUENE	17.63	126	8572	0.46	PPBV	#	83
88)	n-PROPYLBENZENE	17.65	120	9573	0.45	PPBV		100
89)	4-ETHYLTOLUENE	17.80	105	30624	0.46	PPBV		98
90)	1,3,5-TRIMETHYLBENZENE	17.88	105	28742	0.45	PPBV		98
91)	ALPHA-METHYLSTYRENE	18.06	118	12791	0.43	PPBV		99
92)	TERT-BUTYLBENZENE	18.33	134	7355	0.46	PPBV		99
93)	1,2,4-TRIMETHYLBENZENE	18.34	105	26742	0.45	PPBV		98
94)	m-DICHLOROBENZENE	18.53	146	16459	0.44	PPBV		98
95)	BENZYL CHLORIDE	18.50	91	17051	0.43	PPBV		98
96)	p-DICHLOROBENZENE	18.59	146	17231	0.46	PPBV		99
97)	SEC-BUTYLBENZENE	18.63	134	8709	0.46	PPBV		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50854.D Vial: 2
Acq On : 8 Apr 2015 10:24 pm Operator: danat
Sample : IC2031-0.5 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 09:33:01 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

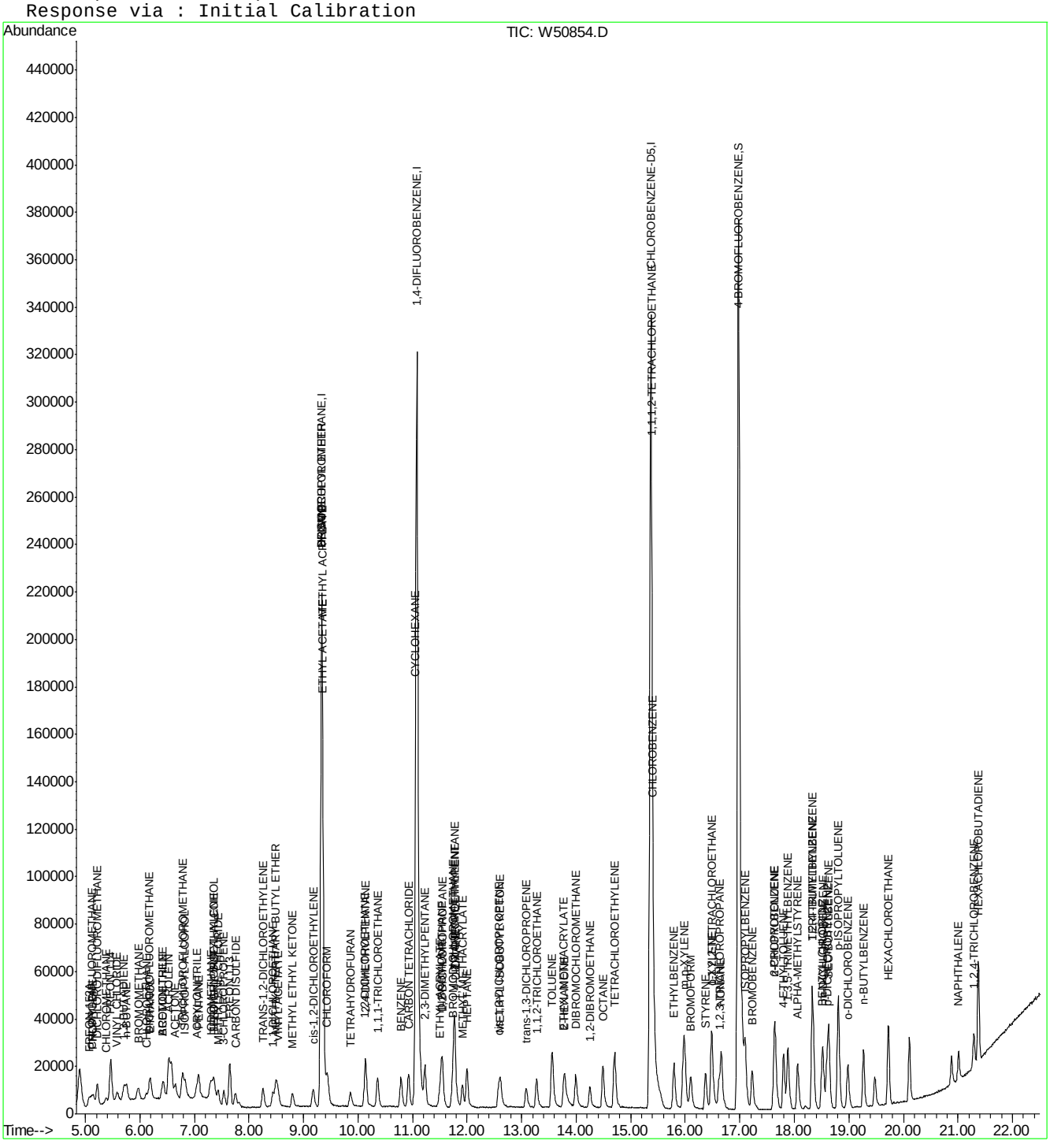
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	p-ISOPROPYLTOLUENE	18.80	134	8855	0.46	PPBV	99
99)	o-DICHLOROBENZENE	18.98	146	16475	0.48	PPBV	99
100)	n-BUTYLBENZENE	19.27	134	7575	0.46	PPBV	97
101)	HEXACHLOROETHANE	19.73	201	11257	0.43	PPBV	98
102)	HEXACHLOROBUTADIENE	21.37	225	14487	0.59	PPBV	96
103)	1,2,4-TRICHLOROBENZENE	21.29	180	8923	0.67	PPBV	99
104)	NAPHTHALENE	21.01	128	17310	0.63	PPBV	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50854.D Vial: 2
Acq On : 8 Apr 2015 10:24 pm Operator: danat
Sample : IC2031-0.5 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 9 11:17 2015 Quant Results File: MW2031.RES

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration



Manual Integration Approval Summary

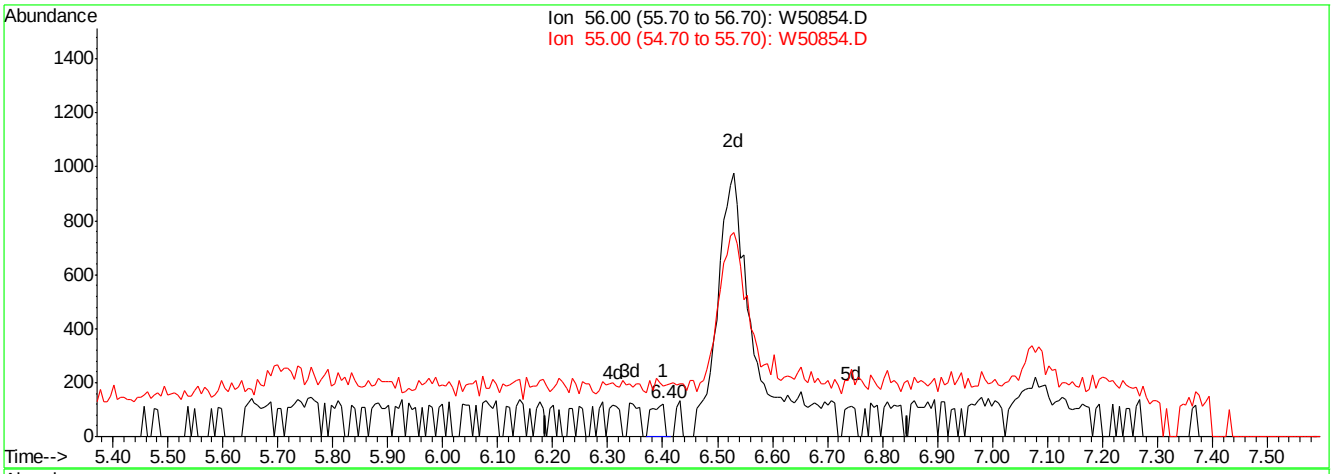
Sample Number:	VW2031-IC2031	**Method:**	TO-15
Lab FileID:	W50854.D	**Analyst approved:**	04/09/15 18:16 Youmin Hu
Injection Time:	04/08/15 22:24	**Supervisor approved:**	04/15/15 14:24 Jessica Reitan-Chu

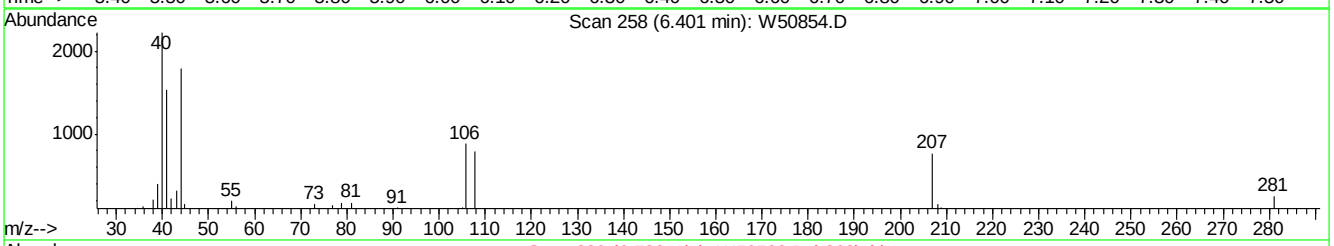
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethanol	64-17-5		6.19	Poor instrument integration
Acrolein	107-02-8		6.53	Poor instrument integration

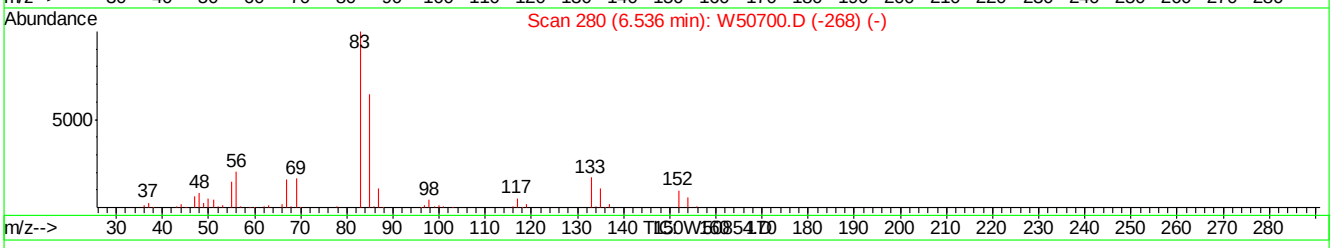
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W50854.D Vial: 2
Acq On : 8 Apr 2015 10:24 pm Operator: danat
Sample : IC2031-0.5 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 9 9:35 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Multiple Level Calibration







(16) ACROLEIN

6.40min 0.04PPBV

response 199

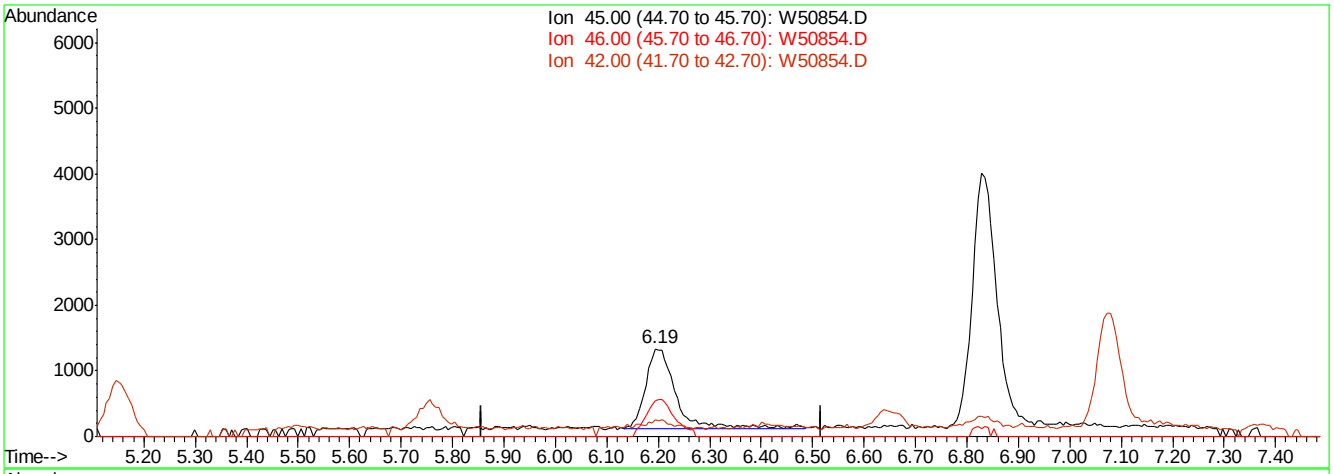
Ion	Exp%	Act%
56.00	100	100
55.00	71.00	70.85
0.00	0.00	0.00
0.00	0.00	0.00

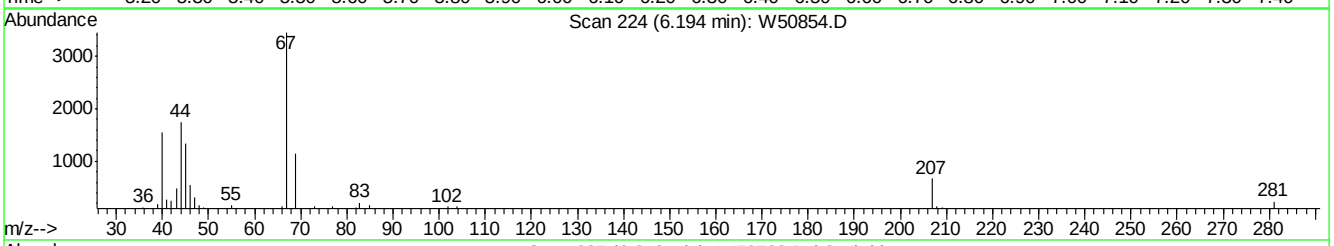
W50854.D MW2031.M Thu Apr 09 09:35:41 2015 MSW

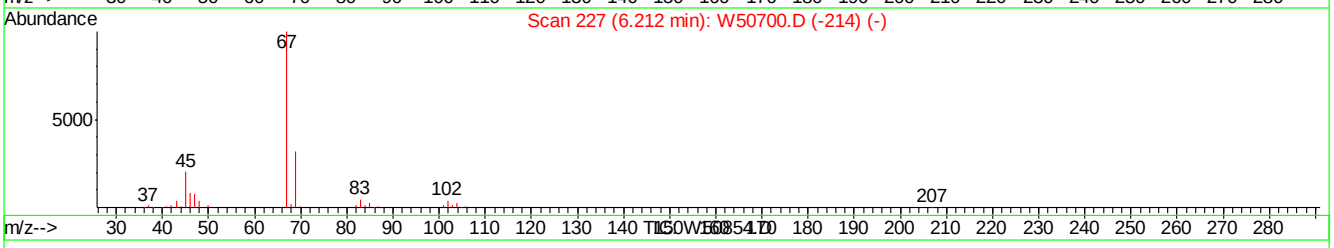
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W50854.D Vial: 2
Acq On : 8 Apr 2015 10:24 pm Operator: danat
Sample : IC2031-0.5 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 9 9:35 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Multiple Level Calibration







(26) ETHANOL

6.19min 1.07PPBV

response 5099

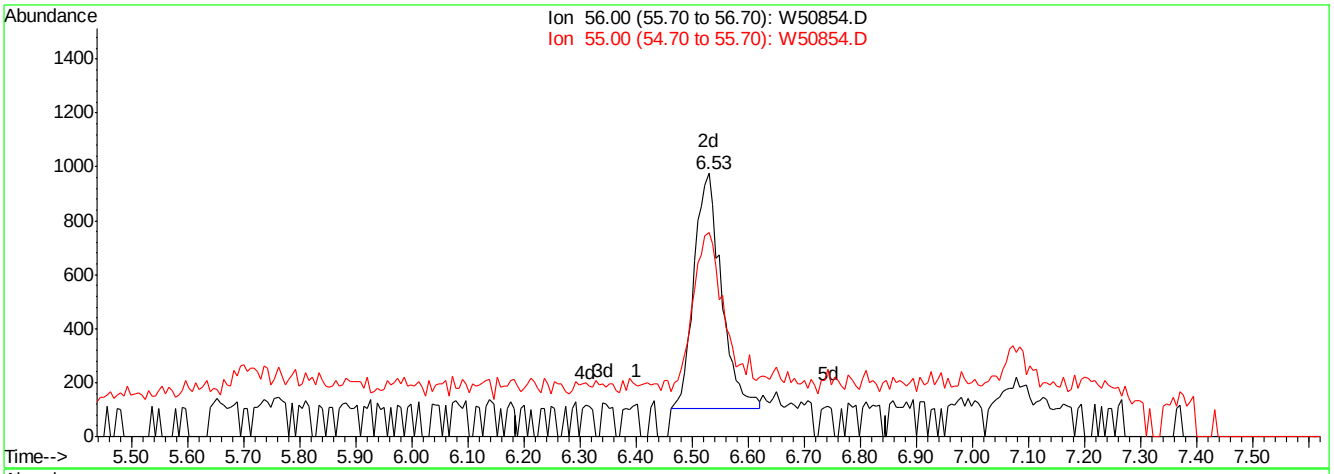
Ion	Exp%	Act%
45.00	100	100
46.00	41.20	42.28
42.00	8.00	13.65
0.00	0.00	0.00

W50854.D MW2031.M Thu Apr 09 09:36:13 2015 MSW

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W50854.D Vial: 2
Acq On : 8 Apr 2015 10:24 pm Operator: danat
Sample : IC2031-0.5 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 9 11:17 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 11:17:09 2015
Response via : Multiple Level Calibration



(16) ACROLEIN

6.53min 0.53PPBV m

response 2910

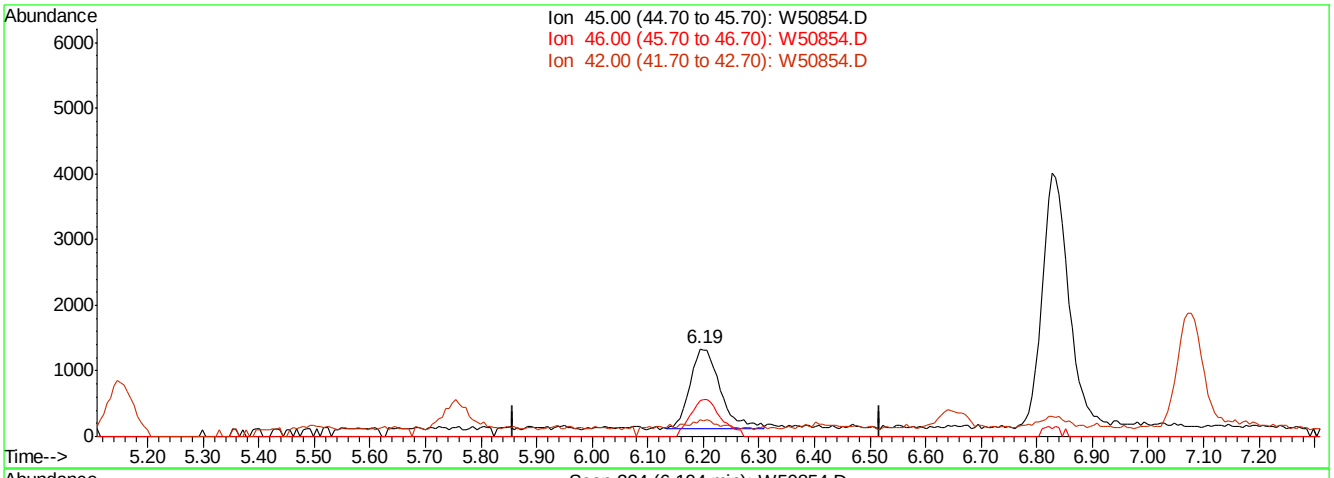
Ion	Exp%	Act%
56.00	100	100
55.00	71.00	4.85#
0.00	0.00	0.00
0.00	0.00	0.00

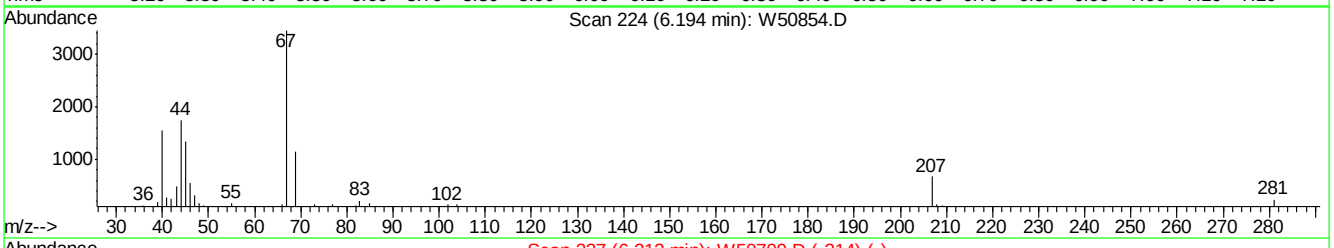
W50854.D MW2031.M Thu Apr 09 18:05:24 2015 MSW

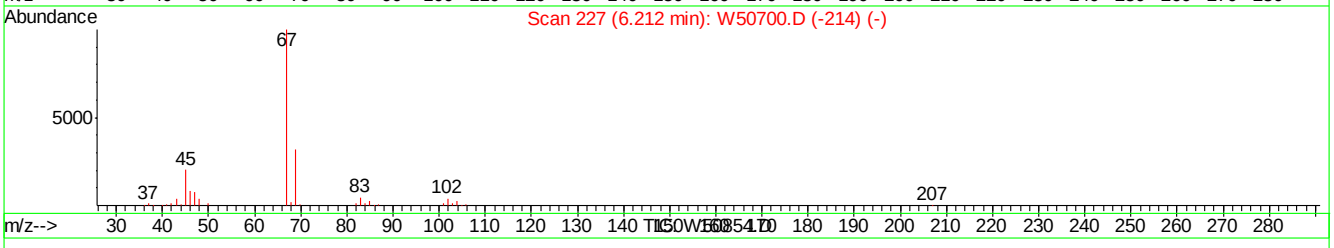
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W50854.D Vial: 2
Acq On : 8 Apr 2015 10:24 pm Operator: danat
Sample : IC2031-0.5 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 9 11:17 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 11:17:09 2015
Response via : Multiple Level Calibration







(26) ETHANOL

6.19min 0.98PPBV m

response 4670

Ion	Exp%	Act%
45.00	100	100
46.00	41.20	0.00#
42.00	8.00	0.00
0.00	0.00	0.00

W50854.D MW2031.M Thu Apr 09 18:05:30 2015 MSW

Manual Integrations APPROVED (compounds with "m" flag)
Jessica Reitan-Chu 04/15/15 14:24

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50855.D Vial: 2
Acq On : 8 Apr 2015 11:05 pm Operator: danat
Sample : IC2031-0.2 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 09:33:02 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	9.33	128	104341	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	11.08	114	459618	10.00	PPBV	0.00
67) CHLOROBENZENE-D5	15.36	82	198861	10.00	PPBV	0.00

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	16.97	95	236941	10.27	PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 102.70%

Target Compounds						Qvalue
3) FREON 152A	5.07	65	1290	0.18	PPBV	93
4) CHLORODIFLUOROMETHANE	5.11	67	544	0.17	PPBV #	41
5) DICHLORODIFLUOROMETHANE	5.22	85	6692	0.19	PPBV	99
6) PROPYLENE	5.15	41	2128	0.24	PPBV	96
7) FREON 114	5.46	85	6355	0.18	PPBV	99
9) CHLOROMETHANE	5.37	52	607	0.17	PPBV #	62
10) VINYL CHLORIDE	5.58	62	2484	0.18	PPBV	94
11) 1,3-BUTADIENE	5.72	54	2169	0.20	PPBV #	82
12) n-BUTANE	5.77	58	465	0.16	PPBV #	39
13) BROMOMETHANE	5.97	94	2475	0.19	PPBV #	69
14) CHLOROETHANE	6.11	64	1368	0.18	PPBV #	43
15) DICHLOROFLUOROMETHANE	6.18	67	6179	0.22	PPBV #	91
16) ACROLEIN	6.52	56	1805m	0.34	PPBV	
17) TRICHLOROFLUOROMETHANE	6.78	101	6198	0.18	PPBV	93
18) ISOPROPYL ALCOHOL	6.84	45	4956	0.25	PPBV	71
19) ACETONE	6.65	58	1585	0.25	PPBV	93
21) ACRYLONITRILE	7.05	53	2524	0.25	PPBV	92
22) PENTANE	7.08	57	1128	0.28	PPBV #	60
23) IODOMETHANE	7.30	142	6953	0.18	PPBV	98
24) 1,1-DICHLOROETHYLENE	7.34	96	2924	0.23	PPBV #	76
25) CARBON DISULFIDE	7.75	76	7100	0.20	PPBV	94
27) ACETONITRILE	6.42	41	2683	0.28	PPBV #	73
28) BROMOETHENE	6.43	106	2507	0.19	PPBV #	95
29) METHYLENE CHLORIDE	7.44	84	2275	0.21	PPBV	96
30) 3-CHLOROPROPENE	7.55	76	1017	0.17	PPBV #	62
31) FREON 113	7.64	151	4571	0.18	PPBV	98
32) TRANS-1,2-DICHLOROETHYLENE	8.25	96	3130	0.23	PPBV #	79
33) TERTIARY BUTYL ALCOHOL	7.37	59	4453	0.19	PPBV #	59
34) METHYL TERTIARY BUTYL ETHE	8.50	73	7344	0.20	PPBV	94
35) TETRAHYDROFURAN	9.87	72	787	0.13	PPBV #	67
36) HEXANE	9.33	57	3601	0.18	PPBV	97
37) VINYL ACETATE	8.53	86	439	0.12	PPBV #	1
38) 1,1-DICHLOROETHANE	8.44	63	3902	0.18	PPBV	93
39) METHYL ETHYL KETONE	8.80	72	1014	0.17	PPBV	94
40) cis-1,2-DICHLOROETHYLENE	9.18	96	3155	0.22	PPBV	82
41) DI-ISOPROPYL ETHER	9.33	87	2061	0.17	PPBV #	85
42) ETHYL ACETATE	9.35	61	541	0.14	PPBV #	75
43) METHYL ACRYLATE	9.36	55	4456	0.20	PPBV #	81
44) CHLOROFORM	9.44	83	5015	0.19	PPBV	97
45) 2,4-DIMETHYLPENTANE	10.14	57	3925	0.17	PPBV	99
46) 1,1,1-TRICHLOROETHANE	10.36	97	5343	0.19	PPBV	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50855.D Vial: 2
Acq On : 8 Apr 2015 11:05 pm Operator: danat
Sample : IC2031-0.2 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 09:33:02 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
47)	CARBON TETRACHLORIDE	10.93	117	5735	0.18	PPBV		98
48)	1,2-DICHLOROETHANE	10.13	62	2910	0.18	PPBV		90
50)	BENZENE	10.79	78	7740	0.18	PPBV		97
51)	CYCLOHEXANE	11.05	84	4182	0.21	PPBV	#	9
52)	2,3-DIMETHYLPENTANE	11.22	71	1494	0.16	PPBV	#	74
53)	TRICHLOROETHYLENE	11.76	95	3294	0.17	PPBV		97
54)	DIBROMOMETHANE	11.53	174	3888	0.18	PPBV		99
55)	1,2-DICHLOROPROPANE	11.55	63	2344	0.17	PPBV		89
56)	ETHYL ACRYLATE	11.50	55	4669	0.18	PPBV	#	84
57)	BROMODICHLOROMETHANE	11.73	83	5162	0.17	PPBV		100
58)	2,2,4-TRIMETHYLPENTANE	11.77	57	10886	0.17	PPBV		98
59)	1,4-DIOXANE	11.80	88	1600	0.19	PPBV	#	36
60)	METHYL METHACRYLATE	11.92	69	2184	0.15	PPBV		86
61)	HEPTANE	12.00	43	4444	0.20	PPBV		85
62)	METHYL ISOBUTYL KETONE	12.62	43	4254	0.18	PPBV		79
63)	cis-1,3-DICHLOROPROPENE	12.58	75	4079	0.17	PPBV		96
64)	TOLUENE	13.55	92	5315	0.16	PPBV		95
65)	trans-1,3-DICHLOROPROPENE	13.08	75	3645	0.17	PPBV		96
66)	1,1,2-TRICHLOROETHANE	13.27	83	2213	0.16	PPBV		99
68)	ETHYL METHACRYLATE	13.77	69	3341	0.16	PPBV	#	81
69)	2-HEXANONE	13.80	58	1954	0.16	PPBV	#	46
70)	TETRACHLOROETHYLENE	14.70	164	4465	0.19	PPBV		98
71)	DIBROMOCHLOROMETHANE	13.99	129	5481	0.17	PPBV		96
72)	1,2-DIBROMOETHANE	14.25	107	4378	0.17	PPBV	#	97
73)	OCTANE	14.49	43	5492	0.19	PPBV		90
74)	1,1,1,2-TETRACHLOROETHANE	15.39	131	4182	0.18	PPBV	#	1
75)	CHLOROBENZENE	15.41	112	7782	0.18	PPBV	#	67
76)	ETHYLBENZENE	15.79	91	11317	0.18	PPBV		96
77)	m,p-XYLENE	15.98	106	9225	0.34	PPBV		94
78)	o-XYLENE	16.48	106	4206	0.17	PPBV		95
79)	STYRENE	16.37	104	6226	0.15	PPBV		95
80)	1,2,3-TRICHLOROPROPANE	16.62	75	4681	0.20	PPBV	#	87
81)	NONANE	16.66	43	5288	0.17	PPBV		88
82)	BROMOFORM	16.10	173	5113	0.15	PPBV		94
84)	1,1,2,2-TETRACHLOROETHANE	16.48	83	5806	0.18	PPBV		97
85)	ISOPROPYLBENZENE	17.09	105	13589	0.18	PPBV		98
86)	BROMOBENZENE	17.22	156	4343	0.18	PPBV		97
87)	2-CHLOROTOLUENE	17.62	126	3169	0.17	PPBV	#	45
88)	n-PROPYLBENZENE	17.65	120	3499	0.17	PPBV		96
89)	4-ETHYLTOLUENE	17.80	105	10720	0.17	PPBV	#	98
90)	1,3,5-TRIMETHYLBENZENE	17.88	105	11226	0.18	PPBV		99
91)	ALPHA-METHYLSTYRENE	18.06	118	4399	0.15	PPBV		97
92)	TERT-BUTYLBENZENE	18.33	134	2601	0.17	PPBV		93
93)	1,2,4-TRIMETHYLBENZENE	18.34	105	9641	0.17	PPBV		96
94)	m-DICHLOROBENZENE	18.53	146	5971	0.16	PPBV		98
95)	BENZYL CHLORIDE	18.50	91	5564	0.14	PPBV		97
96)	p-DICHLOROBENZENE	18.59	146	5978	0.16	PPBV		96
97)	SEC-BUTYLBENZENE	18.63	134	3077	0.17	PPBV		93
98)	p-ISOPROPYLTOLUENE	18.80	134	3144	0.17	PPBV		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50855.D Vial: 2
Acq On : 8 Apr 2015 11:05 pm Operator: danat
Sample : IC2031-0.2 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 09:33:02 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

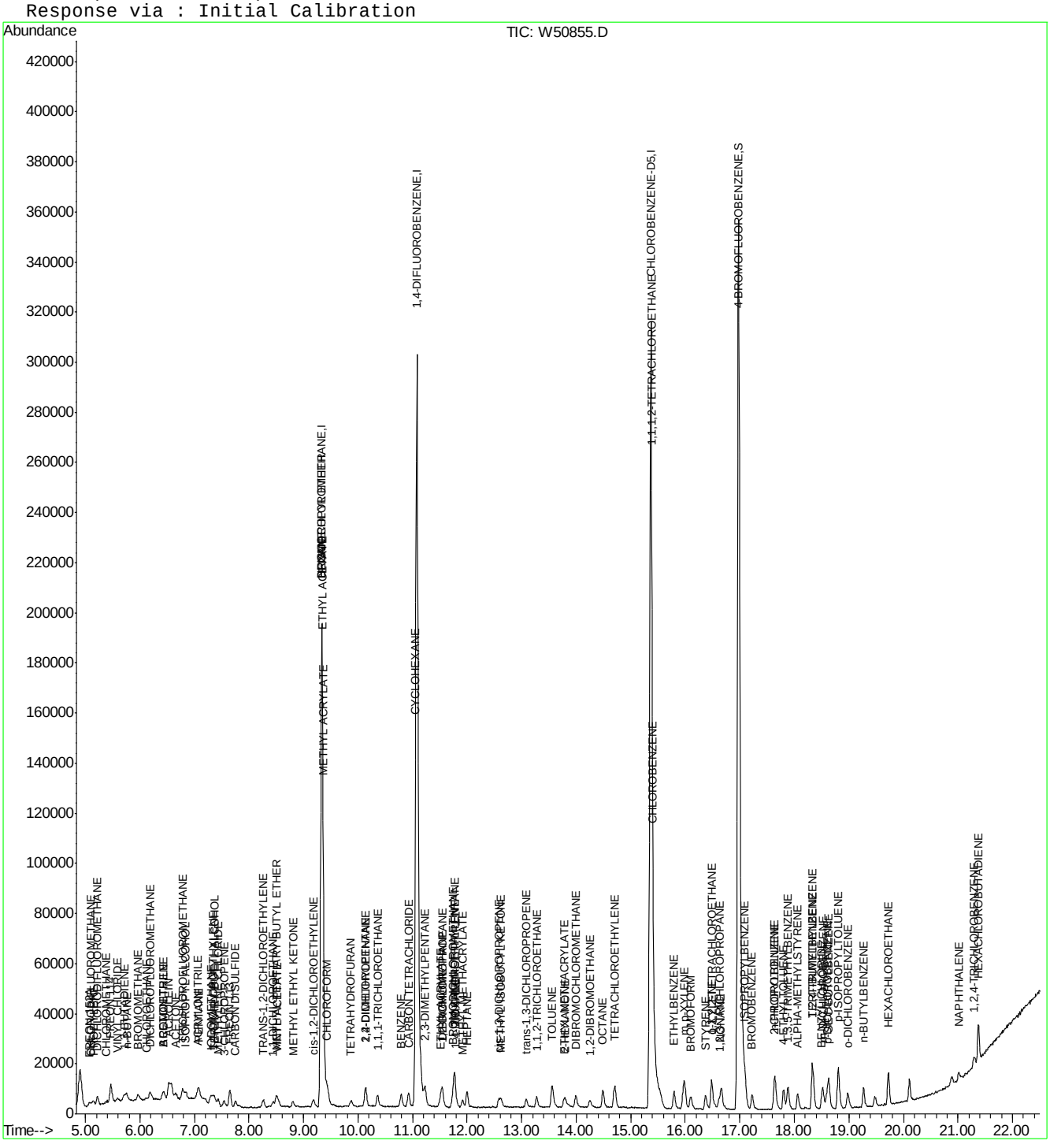
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
99)	o-DICHLOROBENZENE	18.98	146	5843	0.18	PPBV	96
100)	n-BUTYLBENZENE	19.27	134	2477	0.16	PPBV	95
101)	HEXACHLOROETHANE	19.73	201	4165	0.17	PPBV	93
102)	HEXACHLOROBUTADIENE	21.38	225	5535	0.23	PPBV	94
103)	1,2,4-TRICHLOROBENZENE	21.29	180	2874	0.22	PPBV	95
104)	NAPHTHALENE	21.01	128	5383	0.20	PPBV	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50855.D Vial: 2
Acq On : 8 Apr 2015 11:05 pm Operator: danat
Sample : IC2031-0.2 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 9 11:17 2015 Quant Results File: MW2031.RES

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration



Manual Integration Approval Summary

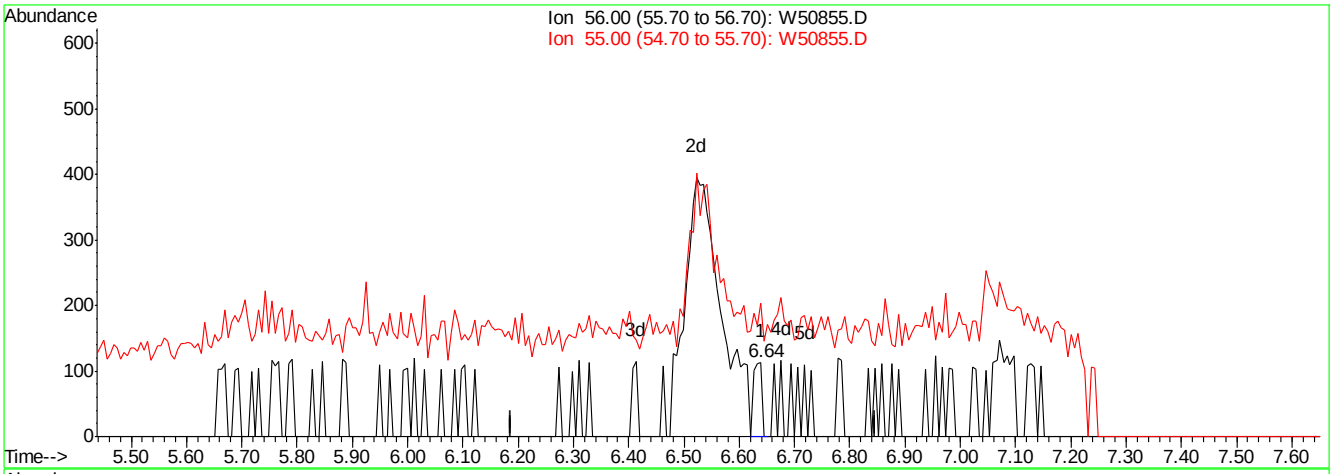
Sample Number:	VW2031-IC2031	**Method:**	TO-15
Lab FileID:	W50855.D	**Analyst approved:**	04/09/15 18:16 Youmin Hu
Injection Time:	04/08/15 23:05	**Supervisor approved:**	04/15/15 14:24 Jessica Reitan-Chu

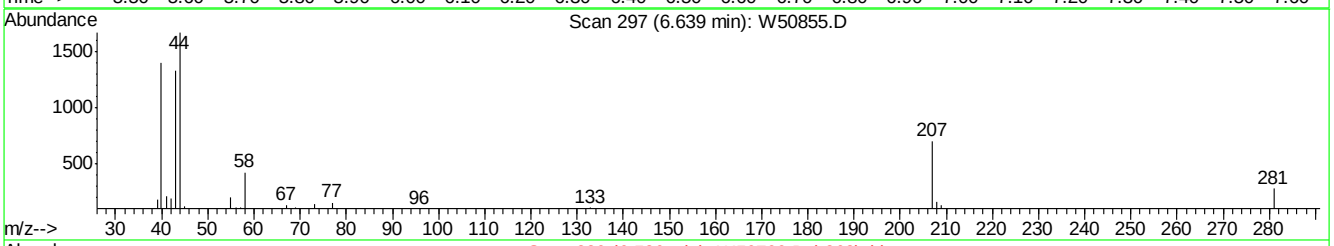
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acrolein	107-02-8		6.52	Poor instrument integration

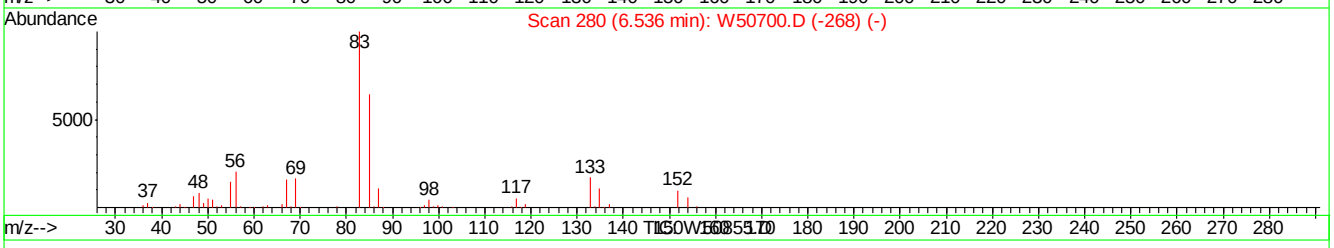
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\W50855.D Vial: 2
Acq On : 8 Apr 2015 11:05 pm Operator: danat
Sample : IC2031-0.2 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 9 18:06 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 11:17:09 2015
Response via : Multiple Level Calibration







(16) ACROLEIN

6.64min 0.02PPBV

response 119

Ion	Exp%	Act%
56.00	100	100
55.00	71.00	67.23
0.00	0.00	0.00
0.00	0.00	0.00

W50855.D MW2031.M Thu Apr 09 18:06:40 2015 MSW

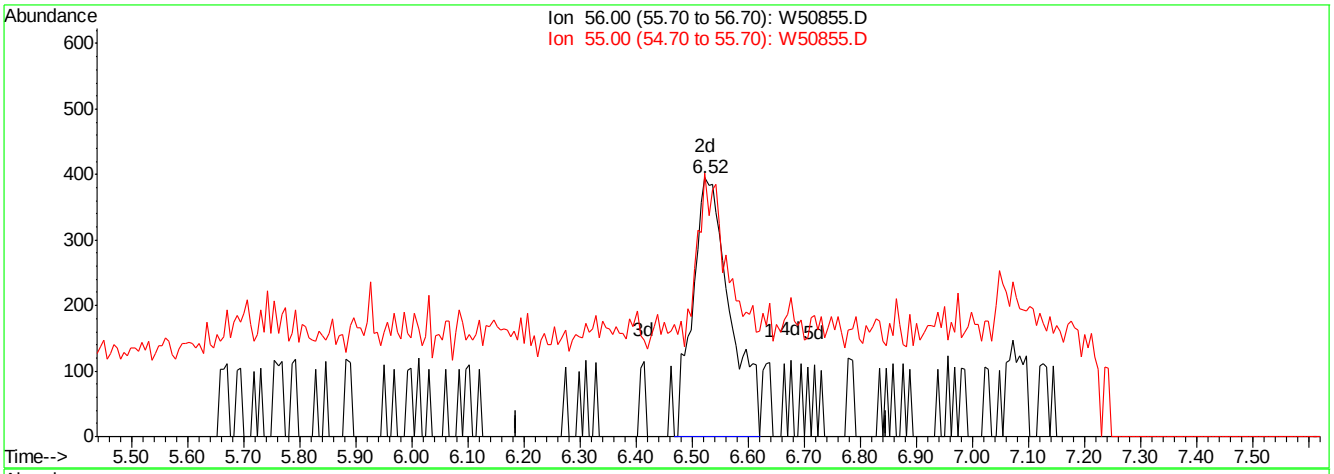
7.7.30.2

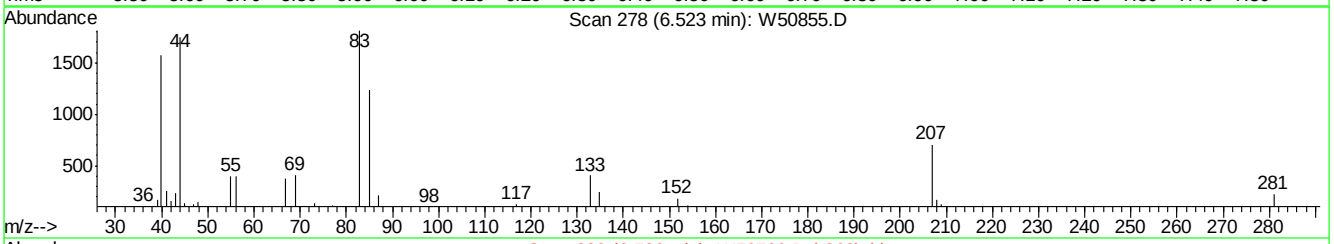
7

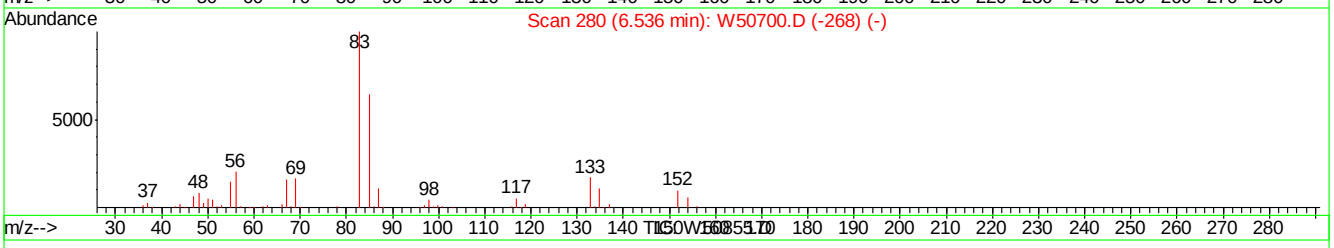
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W50855.D Vial: 2
Acq On : 8 Apr 2015 11:05 pm Operator: danat
Sample : IC2031-0.2 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 9 11:17 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 11:17:09 2015
Response via : Multiple Level Calibration







(16) ACROLEIN

6.52min 0.34PPBV m

response 1805

Ion	Exp%	Act%
56.00	100	100
55.00	71.00	4.43#
0.00	0.00	0.00
0.00	0.00	0.00

W50855.D MW2031.M Thu Apr 09 18:07:00 2015 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50856.D Vial: 1
Acq On : 8 Apr 2015 11:45 pm Operator: danat
Sample : IC2031-20 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 09:33:03 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	9.33	128	112037	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	11.08	114	488569	10.00	PPBV	0.00
67) CHLOROBENZENE-D5	15.37	82	239711	10.00	PPBV	0.00
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	16.97	95	271685	9.77	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 97.70%			
Target Compounds						Qvalue
3) FREON 152A	5.07	65	134873	17.61	PPBV	99
4) CHLORODIFLUOROMETHANE	5.11	67	60308	18.03	PPBV	99
5) DICHLORODIFLUOROMETHANE	5.22	85	666533	17.95	PPBV	100
6) PROPYLENE	5.15	41	163520	17.23	PPBV	98
7) FREON 114	5.46	85	680192	17.98	PPBV	99
9) CHLOROMETHANE	5.37	52	64112	17.08	PPBV	91
10) VINYL CHLORIDE	5.58	62	262316	17.49	PPBV	100
11) 1,3-BUTADIENE	5.71	54	201404	17.33	PPBV	99
12) n-BUTANE	5.75	58	54185	17.45	PPBV	99
13) BROMOMETHANE	5.96	94	244699	17.67	PPBV	98
14) CHLOROETHANE	6.11	64	147158	17.72	PPBV	98
15) DICHLOROFLUOROMETHANE	6.18	67	551914	17.93	PPBV	99
16) ACROLEIN	6.52	56	107857	18.73	PPBV	98
17) TRICHLOROFLUOROMETHANE	6.78	101	675612	18.10	PPBV	99
18) ISOPROPYL ALCOHOL	6.82	45	398505	18.77	PPBV	99
19) ACETONE	6.63	58	125591	18.62	PPBV	99
21) ACRYLONITRILE	7.03	53	205166	18.61	PPBV	99
22) PENTANE	7.08	57	73889	16.93	PPBV	94
23) IODOMETHANE	7.29	142	723942	17.78	PPBV	99
24) 1,1-DICHLOROETHYLENE	7.34	96	249147	18.18	PPBV	99
25) CARBON DISULFIDE	7.75	76	671865	17.88	PPBV	100
26) ETHANOL	6.19	45	90577	18.00	PPBV	100
27) ACETONITRILE	6.40	41	190177	18.43	PPBV	99
28) BROMOETHENE	6.43	106	262159	18.24	PPBV	100
29) METHYLENE CHLORIDE	7.43	84	208260	17.86	PPBV	99
30) 3-CHLOROPROPENE	7.54	76	117027	17.89	PPBV	99
31) FREON 113	7.64	151	499434	18.34	PPBV	99
32) TRANS-1,2-DICHLOROETHYLENE	8.25	96	265710	17.84	PPBV	98
33) TERTIARY BUTYL ALCOHOL	7.36	59	484184	19.23	PPBV	100
34) METHYL TERTIARY BUTYL ETHE	8.48	73	734756	18.61	PPBV	99
35) TETRAHYDROFURAN	9.84	72	118336	18.74	PPBV	99
36) HEXANE	9.33	57	398435	18.44	PPBV	99
37) VINYL ACETATE	8.53	86	71723	18.47	PPBV	98
38) 1,1-DICHLOROETHANE	8.44	63	415937	18.11	PPBV	100
39) METHYL ETHYL KETONE	8.79	72	122075	19.18	PPBV	99
40) cis-1,2-DICHLOROETHYLENE	9.18	96	276130	18.00	PPBV	99
41) DI-ISOPROPYL ETHER	9.32	87	242858	19.03	PPBV	100
42) ETHYL ACETATE	9.34	61	82871	19.32	PPBV #	87
43) METHYL ACRYLATE	9.35	55	455987	18.91	PPBV	100
44) CHLOROFORM	9.44	83	526157	18.21	PPBV	100
45) 2,4-DIMETHYLPENTANE	10.14	57	451217	18.35	PPBV	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50856.D Vial: 1
Acq On : 8 Apr 2015 11:45 pm Operator: danat
Sample : IC2031-20 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 09:33:03 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,1,1-TRICHLOROETHANE	10.36	97	554657	18.25	PPBV		100
47)	CARBON TETRACHLORIDE	10.92	117	627754	18.40	PPBV		100
48)	1,2-DICHLOROETHANE	10.13	62	323419	18.39	PPBV		100
50)	BENZENE	10.79	78	807077	18.04	PPBV		100
51)	CYCLOHEXANE	11.05	84	382703	18.15	PPBV		97
52)	2,3-DIMETHYLPENTANE	11.22	71	183301	18.27	PPBV		100
53)	TRICHLOROETHYLENE	11.77	95	386415	18.54	PPBV		99
54)	DIBROMOMETHANE	11.53	174	425717	18.65	PPBV		100
55)	1,2-DICHLOROPROPANE	11.55	63	278933	18.82	PPBV		100
56)	ETHYL ACRYLATE	11.49	55	535324	19.64	PPBV		100
57)	BROMODICHLOROMETHANE	11.74	83	611464	18.71	PPBV		100
58)	2,2,4-TRIMETHYLPENTANE	11.77	57	1301998	18.72	PPBV		100
59)	1,4-DIOXANE	11.77	88	178998	19.58	PPBV		93
60)	METHYL METHACRYLATE	11.91	69	287617	18.97	PPBV		99
61)	HEPTANE	12.00	43	429337	18.31	PPBV		100
62)	METHYL ISOBUTYL KETONE	12.60	43	506654	20.66	PPBV		100
63)	cis-1,3-DICHLOROPROPENE	12.58	75	473401	18.56	PPBV		100
64)	TOLUENE	13.55	92	639803	18.56	PPBV		100
65)	trans-1,3-DICHLOROPROPENE	13.08	75	419750	18.80	PPBV		100
66)	1,1,2-TRICHLOROETHANE	13.27	83	272701	18.66	PPBV		100
68)	ETHYL METHACRYLATE	13.77	69	480038	18.80	PPBV		100
69)	2-HEXANONE	13.78	58	284199	19.72	PPBV		99
70)	TETRACHLOROETHYLENE	14.70	164	508472	17.49	PPBV		100
71)	DIBROMOCHLOROMETHANE	14.00	129	685913	17.49	PPBV		100
72)	1,2-DIBROMOETHANE	14.25	107	541846	17.62	PPBV		100
73)	OCTANE	14.49	43	593759	17.03	PPBV		99
74)	1,1,1,2-TETRACHLOROETHANE	15.39	131	500069	17.49	PPBV	#	80
75)	CHLOROBENZENE	15.41	112	900069	17.54	PPBV		99
76)	ETHYLBENZENE	15.79	91	1327169	17.46	PPBV		100
77)	m,p-XYLENE	15.98	106	1149641	35.05	PPBV		99
78)	o-XYLENE	16.49	106	537032	17.61	PPBV		100
79)	STYRENE	16.37	104	861111	17.59	PPBV		100
80)	1,2,3-TRICHLOROPROPANE	16.62	75	498227	17.80	PPBV		100
81)	NONANE	16.66	43	631165	17.21	PPBV		99
82)	BROMOFORM	16.11	173	729617	18.15	PPBV		99
84)	1,1,2,2-TETRACHLOROETHANE	16.48	83	701620	17.87	PPBV		100
85)	ISOPROPYLBENZENE	17.10	105	1582390	17.69	PPBV		100
86)	BROMOBENZENE	17.23	156	526166	17.86	PPBV		99
87)	2-CHLOROTOLUENE	17.63	126	385822	17.66	PPBV		95
88)	n-PROPYLBENZENE	17.65	120	448612	17.98	PPBV		97
89)	4-ETHYLTOLUENE	17.80	105	1405047	17.95	PPBV		100
90)	1,3,5-TRIMETHYLBENZENE	17.88	105	1328053	17.80	PPBV		100
91)	ALPHA-METHYLSTYRENE	18.06	118	625702	18.00	PPBV		100
92)	TERT-BUTYLBENZENE	18.33	134	334749	18.04	PPBV		99
93)	1,2,4-TRIMETHYLBENZENE	18.34	105	1256407	18.17	PPBV		99
94)	m-DICHLOROBENZENE	18.52	146	804410	18.34	PPBV		100
95)	BENZYL CHLORIDE	18.50	91	887634	18.95	PPBV		100
96)	p-DICHLOROBENZENE	18.59	146	816803	18.52	PPBV		100
97)	SEC-BUTYLBENZENE	18.63	134	399631	18.15	PPBV		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50856.D Vial: 1
Acq On : 8 Apr 2015 11:45 pm Operator: danat
Sample : IC2031-20 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 09:33:03 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

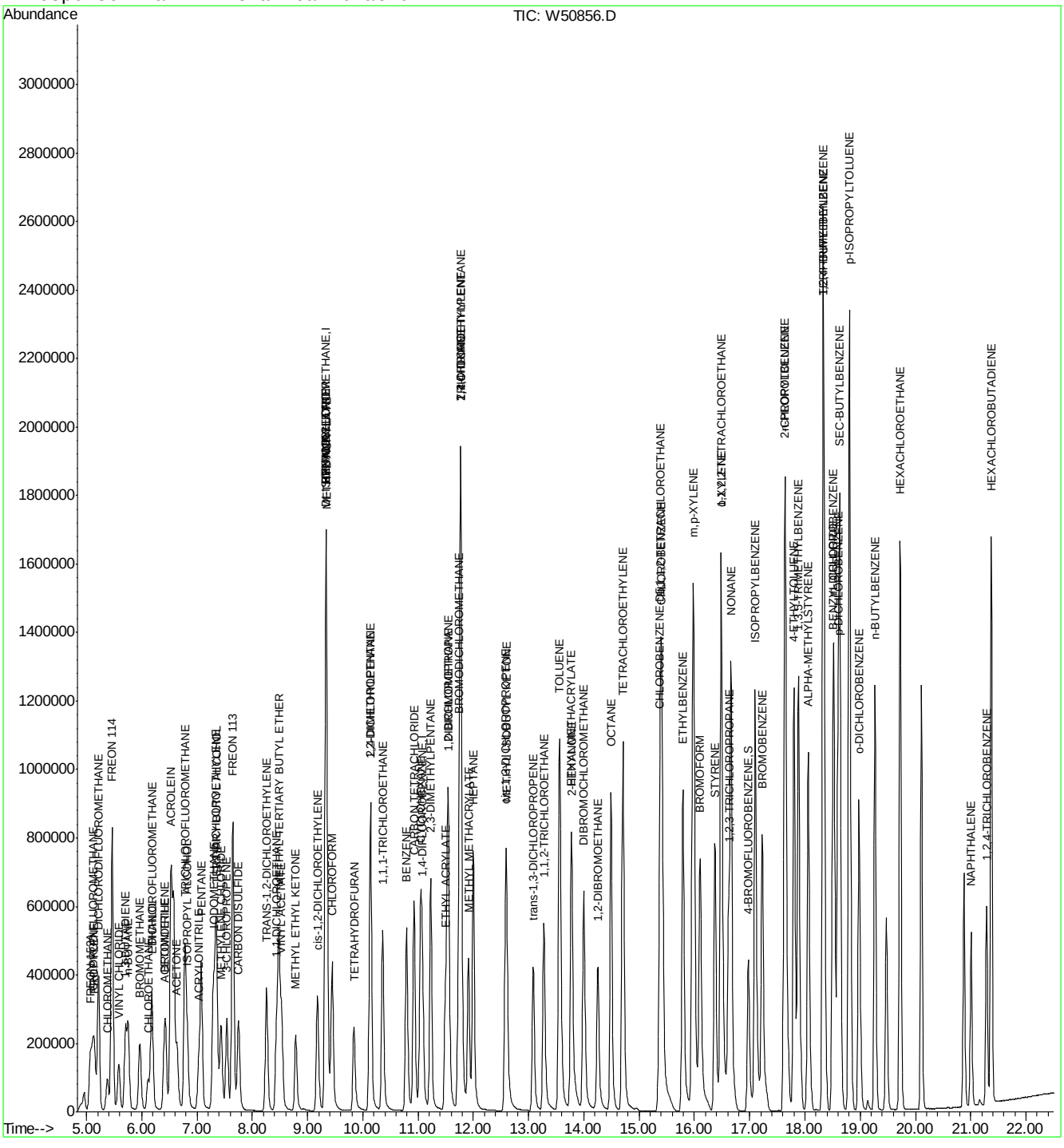
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	p-ISOPROPYLTOLUENE	18.80	134	412848	18.42	PPBV	99
99)	o-DICHLOROBENZENE	18.98	146	723230	18.17	PPBV	100
100)	n-BUTYLBENZENE	19.27	134	350050	18.34	PPBV	100
101)	HEXACHLOROETHANE	19.72	201	546773	18.07	PPBV	99
102)	HEXACHLOROBUTADIENE	21.37	225	524005	18.12	PPBV	100
103)	1,2,4-TRICHLOROBENZENE	21.29	180	306679	19.65	PPBV	100
104)	NAPHTHALENE	21.01	128	635852	19.94	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50856.D Vial: 1
Acq On : 8 Apr 2015 11:45 pm Operator: danat
Sample : IC2031-20 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 9 9:38 2015 Quant Results File: MW2031.RES

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50857.D Vial: 1
Acq On : 9 Apr 2015 12:25 am Operator: danat
Sample : IC2031-15 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 09:33:04 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	9.33	128	109149	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	11.08	114	480136	10.00	PPBV	0.00
67) CHLOROBENZENE-D5	15.37	82	231943	10.00	PPBV	0.00
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	16.97	95	274794	10.21	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 102.10%			
Target Compounds						Qvalue
3) FREON 152A	5.07	65	104168	13.96	PPBV	99
4) CHLORODIFLUOROMETHANE	5.11	67	46659	14.32	PPBV	99
5) DICHLORODIFLUOROMETHANE	5.22	85	521993	14.43	PPBV	100
6) PROPYLENE	5.15	41	125991	13.63	PPBV	98
7) FREON 114	5.46	85	531255	14.41	PPBV	98
9) CHLOROMETHANE	5.38	52	50236	13.73	PPBV #	88
10) VINYL CHLORIDE	5.58	62	206687	14.14	PPBV	100
11) 1,3-BUTADIENE	5.71	54	156821	13.85	PPBV	100
12) n-BUTANE	5.76	58	42367	14.00	PPBV	97
13) BROMOMETHANE	5.96	94	195653	14.50	PPBV	98
14) CHLOROETHANE	6.11	64	114869	14.20	PPBV	91
15) DICHLOROFLUOROMETHANE	6.18	67	433280	14.45	PPBV	99
16) ACROLEIN	6.52	56	80708	14.39	PPBV	99
17) TRICHLOROFLUOROMETHANE	6.78	101	529265	14.56	PPBV	99
18) ISOPROPYL ALCOHOL	6.82	45	318216	15.39	PPBV	99
19) ACETONE	6.64	58	95174	14.48	PPBV	99
21) ACRYLONITRILE	7.03	53	156776	14.60	PPBV	100
22) PENTANE	7.07	57	57652	13.56	PPBV	97
23) IODOMETHANE	7.29	142	575167	14.50	PPBV	99
24) 1,1-DICHLOROETHYLENE	7.34	96	194913	14.60	PPBV	98
25) CARBON DISULFIDE	7.75	76	519060	14.18	PPBV	100
26) ETHANOL	6.19	45	74829	15.26	PPBV	98
27) ACETONITRILE	6.40	41	141521	14.08	PPBV	100
28) BROMOETHENE	6.43	106	206311	14.74	PPBV	100
29) METHYLENE CHLORIDE	7.43	84	160926	14.17	PPBV	99
30) 3-CHLOROPROPENE	7.54	76	90852	14.26	PPBV	100
31) FREON 113	7.64	151	391869	14.77	PPBV	99
32) TRANS-1,2-DICHLOROETHYLENE	8.25	96	209368	14.43	PPBV	100
33) TERTIARY BUTYL ALCOHOL	7.35	59	386035	15.74	PPBV	100
34) METHYL TERTIARY BUTYL ETHE	8.48	73	564363	14.67	PPBV	100
35) TETRAHYDROFURAN	9.84	72	90498	14.71	PPBV	99
36) HEXANE	9.33	57	304073	14.44	PPBV	99
37) VINYL ACETATE	8.53	86	54982	14.53	PPBV	99
38) 1,1-DICHLOROETHANE	8.44	63	320557	14.33	PPBV	100
39) METHYL ETHYL KETONE	8.79	72	92416	14.90	PPBV	99
40) cis-1,2-DICHLOROETHYLENE	9.18	96	215494	14.42	PPBV	100
41) DI-ISOPROPYL ETHER	9.32	87	184915	14.87	PPBV	99
42) ETHYL ACETATE	9.34	61	61559	14.73	PPBV #	92
43) METHYL ACRYLATE	9.35	55	343587	14.63	PPBV	99
44) CHLOROFORM	9.44	83	406843	14.45	PPBV	100
45) 2,4-DIMETHYLPENTANE	10.14	57	344519	14.38	PPBV	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50857.D Vial: 1
Acq On : 9 Apr 2015 12:25 am Operator: danat
Sample : IC2031-15 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 09:33:04 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,1,1-TRICHLOROETHANE	10.36	97	430567	14.54	PPBV		100
47)	CARBON TETRACHLORIDE	10.92	117	488950	14.71	PPBV		100
48)	1,2-DICHLOROETHANE	10.13	62	247321	14.43	PPBV		100
50)	BENZENE	10.79	78	622215	14.15	PPBV		100
51)	CYCLOHEXANE	11.05	84	295678	14.27	PPBV		98
52)	2,3-DIMETHYLPENTANE	11.22	71	140846	14.29	PPBV		99
53)	TRICHLOROETHYLENE	11.77	95	295076	14.41	PPBV		99
54)	DIBROMOMETHANE	11.53	174	330600	14.74	PPBV		99
55)	1,2-DICHLOROPROPANE	11.55	63	210010	14.42	PPBV		99
56)	ETHYL ACRYLATE	11.49	55	398500	14.88	PPBV		100
57)	BROMODICHLOROMETHANE	11.74	83	467460	14.55	PPBV		100
58)	2,2,4-TRIMETHYLPENTANE	11.77	57	985347	14.42	PPBV		100
59)	1,4-DIOXANE	11.77	88	144360	16.07	PPBV	#	88
60)	METHYL METHACRYLATE	11.91	69	217789	14.61	PPBV		99
61)	HEPTANE	12.00	43	324652	14.09	PPBV		99
62)	METHYL ISOBUTYL KETONE	12.60	43	372286	15.45	PPBV		100
63)	cis-1,3-DICHLOROPROPENE	12.58	75	356964	14.24	PPBV		100
64)	TOLUENE	13.55	92	487603	14.40	PPBV		100
65)	trans-1,3-DICHLOROPROPENE	13.08	75	320944	14.63	PPBV		99
66)	1,1,2-TRICHLOROETHANE	13.27	83	206432	14.37	PPBV		100
68)	ETHYL METHACRYLATE	13.77	69	353289	14.30	PPBV		100
69)	2-HEXANONE	13.78	58	206580	14.82	PPBV		99
70)	TETRACHLOROETHYLENE	14.70	164	389491	13.85	PPBV		99
71)	DIBROMOCHLOROMETHANE	14.00	129	524200	13.82	PPBV		100
72)	1,2-DIBROMOETHANE	14.25	107	410085	13.78	PPBV		100
73)	OCTANE	14.49	43	447566	13.26	PPBV		99
74)	1,1,1,2-TETRACHLOROETHANE	15.39	131	381111	13.78	PPBV		87
75)	CHLOROBENZENE	15.41	112	681815	13.73	PPBV		99
76)	ETHYLBENZENE	15.79	91	1009850	13.73	PPBV		100
77)	m,p-XYLENE	15.98	106	867907	27.35	PPBV		100
78)	o-XYLENE	16.48	106	406165	13.77	PPBV		99
79)	STYRENE	16.37	104	651097	13.75	PPBV		99
80)	1,2,3-TRICHLOROPROPANE	16.62	75	372917	13.77	PPBV		99
81)	NONANE	16.66	43	471366	13.28	PPBV		99
82)	BROMOFORM	16.10	173	553149	14.22	PPBV		100
84)	1,1,2,2-TETRACHLOROETHANE	16.48	83	524645	13.81	PPBV		100
85)	ISOPROPYLBENZENE	17.10	105	1196837	13.83	PPBV		100
86)	BROMOBENZENE	17.23	156	398512	13.98	PPBV		98
87)	2-CHLOROTOLUENE	17.63	126	291732	13.80	PPBV		97
88)	n-PROPYLBENZENE	17.65	120	337709	13.99	PPBV		97
89)	4-ETHYLTOLUENE	17.80	105	1066922	14.09	PPBV		100
90)	1,3,5-TRIMETHYLBENZENE	17.88	105	989626	13.70	PPBV		99
91)	ALPHA-METHYLSTYRENE	18.06	118	468203	13.92	PPBV		100
92)	TERT-BUTYLBENZENE	18.33	134	252535	14.07	PPBV		98
93)	1,2,4-TRIMETHYLBENZENE	18.34	105	939535	14.04	PPBV		99
94)	m-DICHLOROBENZENE	18.52	146	609151	14.35	PPBV		100
95)	BENZYL CHLORIDE	18.50	91	652456	14.40	PPBV		100
96)	p-DICHLOROBENZENE	18.59	146	607552	14.24	PPBV		100
97)	SEC-BUTYLBENZENE	18.63	134	301393	14.14	PPBV		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50857.D Vial: 1
Acq On : 9 Apr 2015 12:25 am Operator: danat
Sample : IC2031-15 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 09:33:04 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

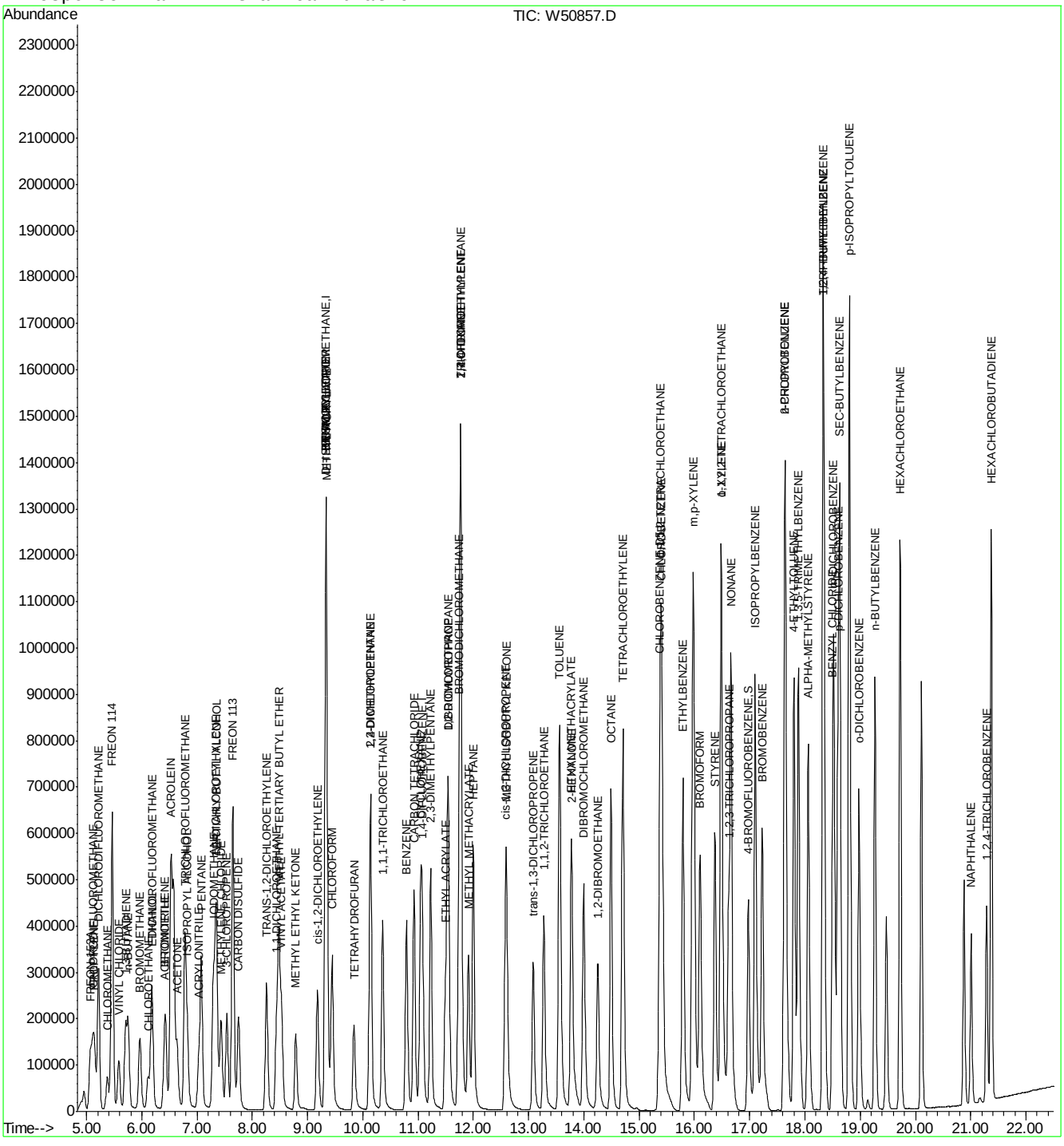
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	p-ISOPROPYLTOLUENE	18.80	134	310553	14.32	PPBV	99
99)	o-DICHLOROBENZENE	18.98	146	546154	14.18	PPBV	100
100)	n-BUTYLBENZENE	19.27	134	262504	14.22	PPBV	99
101)	HEXACHLOROETHANE	19.72	201	408612	13.96	PPBV	99
102)	HEXACHLOROBUTADIENE	21.37	225	390725	13.96	PPBV	100
103)	1,2,4-TRICHLOROBENZENE	21.29	180	222115	14.71	PPBV	100
104)	NAPHTHALENE	21.01	128	460350	14.92	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50857.D Vial: 1
Acq On : 9 Apr 2015 12:25 am Operator: danat
Sample : IC2031-15 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 9 9:38 2015 Quant Results File: MW2031.RES

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration



W50859.D

Manual Integrations APPROVED (compounds with "m" flag)
Jessica Reitan-Chu 04/15/15 14:24

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50859.D Vial: 3
Acq On : 9 Apr 2015 1:46 am Operator: danat
Sample : IC2031-0.1 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 09:33:05 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	9.33	128	106804	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	11.08	114	480958	10.00	PPBV	0.00
67) CHLOROBENZENE-D5	15.36	82	196435	10.00	PPBV	0.00

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	16.97	95	221823	9.73	PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 97.30%

Target Compounds						Qvalue
3) FREON 152A	5.07	65	660	0.09	PPBV #	57
5) DICHLORODIFLUOROMETHANE	5.22	85	3669	0.10	PPBV	95
6) PROPYLENE	5.15	41	1101	0.12	PPBV	89
7) FREON 114	5.46	85	3720	0.10	PPBV	96
10) VINYL CHLORIDE	5.58	62	1412	0.10	PPBV #	84
11) 1,3-BUTADIENE	5.71	54	1129	0.10	PPBV #	1
13) BROMOMETHANE	5.97	94	1341	0.10	PPBV #	44
14) CHLOROETHANE	6.11	64	768	0.10	PPBV #	45
15) DICHLOROFLUOROMETHANE	6.18	67	3413	0.12	PPBV #	92
17) TRICHLOROFLUOROMETHANE	6.79	101	3601	0.10	PPBV	94
22) PENTANE	7.08	57	494	0.12	PPBV #	73
23) IODOMETHANE	7.29	142	3881	0.10	PPBV	99
24) 1,1-DICHLOROETHYLENE	7.33	96	1879	0.14	PPBV #	61
25) CARBON DISULFIDE	7.75	76	4521	0.13	PPBV	96
28) BROMOETHENE	6.43	106	1415	0.10	PPBV #	96
29) METHYLENE CHLORIDE	7.44	84	1439	0.13	PPBV	98
30) 3-CHLOROPROPENE	7.54	76	543	0.09	PPBV #	46
31) FREON 113	7.65	151	2619	0.10	PPBV	98
32) TRANS-1,2-DICHLOROETHYLENE	8.26	96	2034	0.14	PPBV #	68
33) TERTIARY BUTYL ALCOHOL	7.38	59	3074	0.13	PPBV	73
34) METHYL TERTIARY BUTYL ETHE	8.50	73	4503	0.12	PPBV	93
35) TETRAHYDROFURAN	9.86	72	562	0.09	PPBV #	62
36) HEXANE	9.33	57	2110	0.10	PPBV	96
38) 1,1-DICHLOROETHANE	8.44	63	2267	0.10	PPBV	92
39) METHYL ETHYL KETONE	8.80	72	897	0.15	PPBV	92
40) cis-1,2-DICHLOROETHYLENE	9.18	96	2176	0.15	PPBV #	68
41) DI-ISOPROPYL ETHER	9.33	87	1173	0.10	PPBV	95
42) ETHYL ACETATE	9.36	61	376	0.09	PPBV #	24
44) CHLOROFORM	9.44	83	2876	0.10	PPBV #	87
45) 2,4-DIMETHYLPENTANE	10.13	57	2165	0.09	PPBV	94
46) 1,1,1-TRICHLOROETHANE	10.36	97	2961	0.10	PPBV	98
47) CARBON TETRACHLORIDE	10.92	117	3331	0.10	PPBV	98
48) 1,2-DICHLOROETHANE	10.12	62	1723	0.10	PPBV #	89
50) BENZENE	10.78	78	4773	0.11	PPBV	94
51) CYCLOHEXANE	11.05	84	2381	0.11	PPBV #	9
52) 2,3-DIMETHYLPENTANE	11.22	71	827	0.08	PPBV #	64
53) TRICHLOROETHYLENE	11.77	95	1883	0.09	PPBV	100
54) DIBROMOMETHANE	11.53	174	2577	0.11	PPBV	99
55) 1,2-DICHLOROPROPANE	11.55	63	1420	0.10	PPBV	85
57) BROMODICHLOROMETHANE	11.73	83	3040	0.09	PPBV	99
58) 2,2,4-TRIMETHYLPENTANE	11.77	57	6467	0.09	PPBV	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50859.D Vial: 3
Acq On : 9 Apr 2015 1:46 am Operator: danat
Sample : IC2031-0.1 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 09:33:05 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

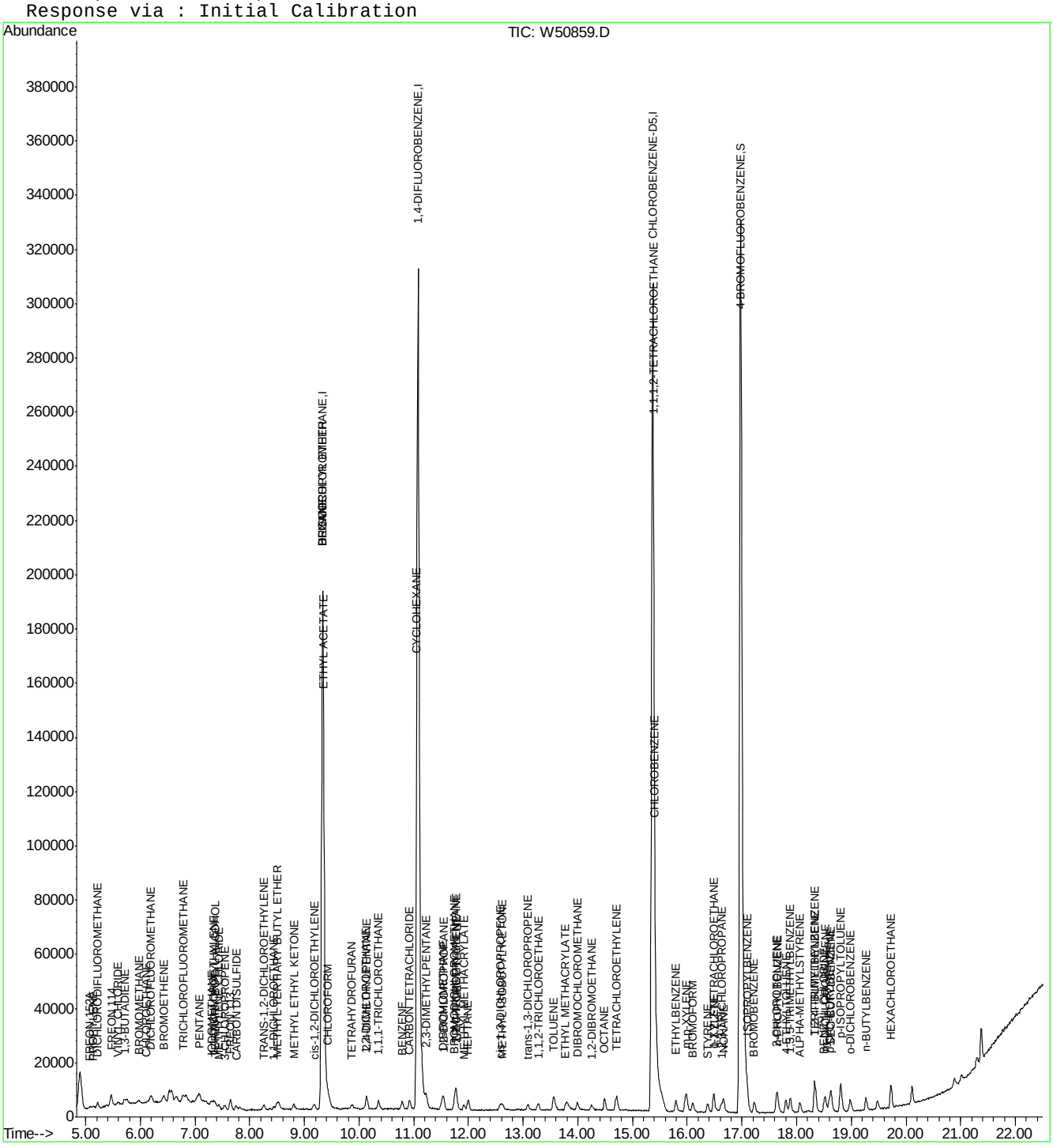
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
60)	METHYL METHACRYLATE	11.92	69	1467	0.10	PPBV	#	81
61)	HEPTANE	12.00	43	2522	0.11	PPBV		84
62)	METHYL ISOBUTYL KETONE	12.62	43	2825	0.12	PPBV		74
63)	cis-1,3-DICHLOROPROPENE	12.58	75	2446	0.10	PPBV		96
64)	TOLUENE	13.55	92	3224	0.10	PPBV		97
65)	trans-1,3-DICHLOROPROPENE	13.09	75	2425	0.11	PPBV		94
66)	1,1,2-TRICHLOROETHANE	13.28	83	1280	0.09	PPBV		92
68)	ETHYL METHACRYLATE	13.77	69	2280	0.11	PPBV	#	75
70)	TETRACHLOROETHYLENE	14.70	164	2670	0.11	PPBV		97
71)	DIBROMOCHLOROMETHANE	13.99	129	3436	0.11	PPBV		93
72)	1,2-DIBROMOETHANE	14.25	107	2871	0.11	PPBV	#	98
73)	OCTANE	14.49	43	3134	0.11	PPBV	#	88
74)	1,1,1,2-TETRACHLOROETHANE	15.39	131	2540	0.11	PPBV	#	1
75)	CHLOROBENZENE	15.41	112	4637	0.11	PPBV	#	53
76)	ETHYLBENZENE	15.79	91	6807	0.11	PPBV		95
77)	m,p-XYLENE	15.98	106	5597	0.21	PPBV		97
78)	o-XYLENE	16.48	106	2478	0.10	PPBV		89
79)	STYRENE	16.37	104	4197	0.10	PPBV		98
80)	1,2,3-TRICHLOROPROPANE	16.62	75	3232	0.14	PPBV	#	84
81)	NONANE	16.66	43	3201	0.11	PPBV		82
82)	BROMOFORM	16.10	173	3334	0.10	PPBV		94
84)	1,1,2,2-TETRACHLOROETHANE	16.48	83	3874	0.12	PPBV		95
85)	ISOPROPYLBENZENE	17.10	105	8101	0.11	PPBV		99
86)	BROMOBENZENE	17.22	156	2775	0.11	PPBV		99
87)	2-CHLOROTOLUENE	17.63	126	2018	0.11	PPBV	#	66
88)	n-PROPYLBENZENE	17.65	120	2063	0.10	PPBV		82
89)	4-ETHYLTOLUENE	17.80	105	6880m	0.11	PPBV		
90)	1,3,5-TRIMETHYLBENZENE	17.89	105	7090	0.12	PPBV		99
91)	ALPHA-METHYLSTYRENE	18.06	118	2822	0.10	PPBV		95
92)	TERT-BUTYLBENZENE	18.34	134	1606	0.11	PPBV		85
93)	1,2,4-TRIMETHYLBENZENE	18.34	105	6238	0.11	PPBV		95
94)	m-DICHLOROBENZENE	18.52	146	4088	0.11	PPBV		95
95)	BENZYL CHLORIDE	18.50	91	4338	0.11	PPBV		94
96)	p-DICHLOROBENZENE	18.59	146	4261	0.12	PPBV		99
97)	SEC-BUTYLBENZENE	18.63	134	2020	0.11	PPBV		96
98)	p-ISOPROPYLTOLUENE	18.80	134	2101	0.11	PPBV		95
99)	o-DICHLOROBENZENE	18.98	146	4108	0.13	PPBV		95
100)	n-BUTYLBENZENE	19.27	134	1655	0.11	PPBV		94
101)	HEXACHLOROETHANE	19.73	201	2721	0.11	PPBV		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50859.D Vial: 3
Acq On : 9 Apr 2015 1:46 am Operator: danat
Sample : IC2031-0.1 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 9 18:09 2015 Quant Results File: MW2031.RES

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration



Manual Integration Approval Summary

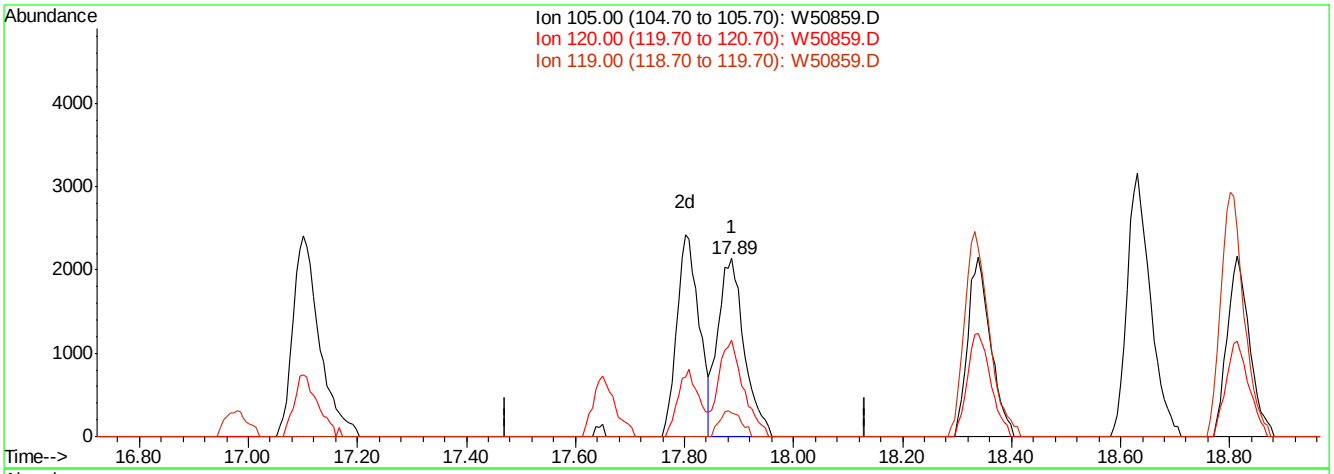
Sample Number:	VW2031-IC2031	**Method:**	TO-15
Lab FileID:	W50859.D	**Analyst approved:**	04/09/15 18:16 Youmin Hu
Injection Time:	04/09/15 01:46	**Supervisor approved:**	04/15/15 14:24 Jessica Reitan-Chu

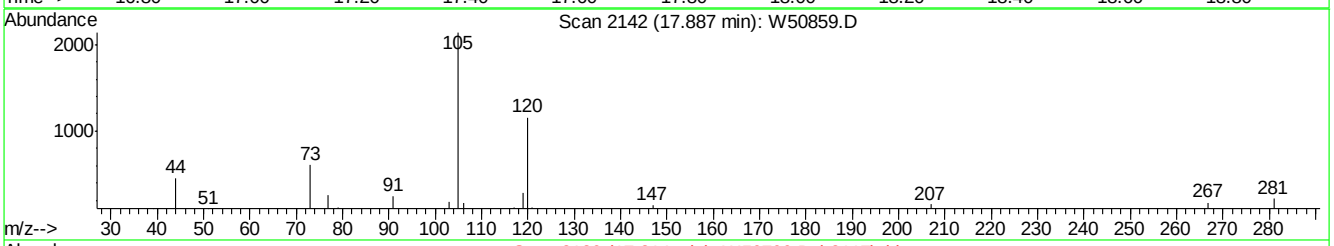
Parameter	CAS	Sig#	R.T. (min.)	Reason
4-Ethyltoluene	622-96-8		17.80	Poor instrument integration

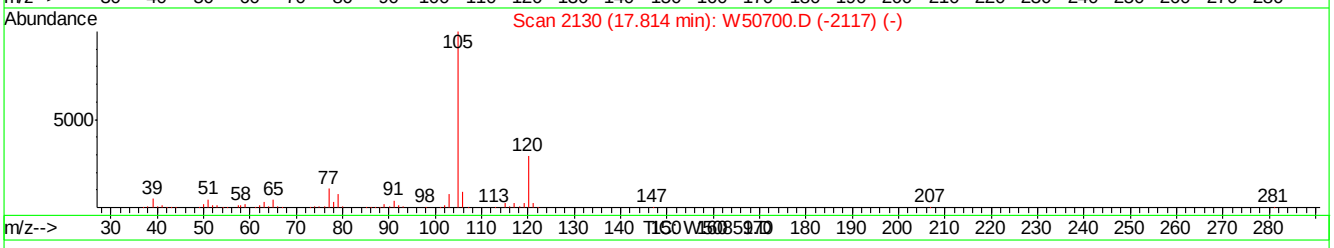
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W50859.D Vial: 3
Acq On : 9 Apr 2015 1:46 am Operator: danat
Sample : IC2031-0.1 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 9 9:39 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 11:17:09 2015
Response via : Multiple Level Calibration







(89) 4-ETHYLTOLUENE

17.89min 0.11PPBV

response 7090

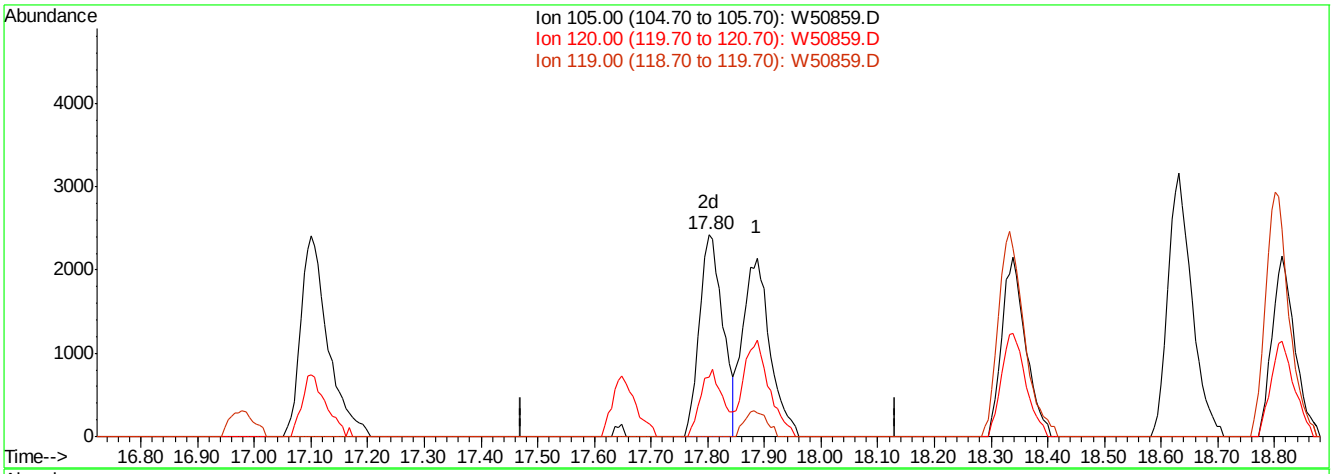
Ion	Exp%	Act%
105.00	100	100
120.00	31.20	51.17
119.00	2.60	11.88
0.00	0.00	0.00

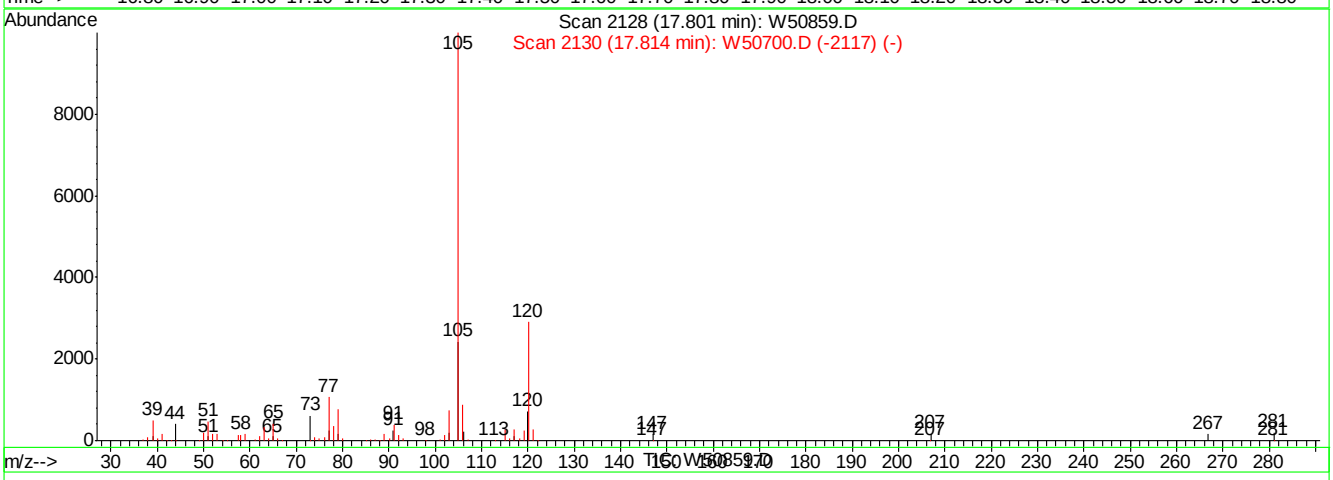
W50859.D MW2031.M Thu Apr 09 18:09:15 2015 MSW

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W50859.D Vial: 3
Acq On : 9 Apr 2015 1:46 am Operator: danat
Sample : IC2031-0.1 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 9 18:09 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 11:17:09 2015
Response via : Multiple Level Calibration





(89) 4-ETHYLTOLUENE

17.80min 0.11PPBV m

response 6880

Ion	Exp%	Act%
105.00	100	100
120.00	31.20	52.73#
119.00	2.60	12.24
0.00	0.00	0.00

W50859.D MW2031.M Thu Apr 09 18:09:24 2015 MSW

Manual Integrations APPROVED (compounds with "m" flag)
Jessica Reitan-Chu 04/15/15 14:24

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50860.D Vial: 3
Acq On : 9 Apr 2015 2:27 am Operator: danat
Sample : IC2031-0.04 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 09:33:06 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	9.34	128	103414	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	11.08	114	447506	10.00	PPBV	0.00
67) CHLOROBENZENE-D5	15.36	82	186595	10.00	PPBV	0.00

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	16.97	95	214637	9.92	PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 99.20%

Target Compounds						Qvalue
5) DICHLORODIFLUOROMETHANE	5.22	85	1348	0.04	PPBV #	83
6) PROPYLENE	5.15	41	458	0.05	PPBV	87
7) FREON 114	5.46	85	1349	0.04	PPBV	90
10) VINYL CHLORIDE	5.59	62	432	0.03	PPBV #	49
11) 1,3-BUTADIENE	5.72	54	373	0.03	PPBV #	1
13) BROMOMETHANE	5.96	94	431	0.03	PPBV #	1
15) DICHLOROFLUOROMETHANE	6.19	67	1290	0.05	PPBV #	89
17) TRICHLOROFLUOROMETHANE	6.79	101	1310	0.04	PPBV #	89
23) IODOMETHANE	7.30	142	1343	0.04	PPBV	92
28) BROMOETHENE	6.43	106	381	0.03	PPBV #	88
29) METHYLENE CHLORIDE	7.43	84	432	0.04	PPBV #	79
31) FREON 113	7.64	151	903	0.04	PPBV	94
33) TERTIARY BUTYL ALCOHOL	7.38	59	808	0.03	PPBV	77
34) METHYL TERTIARY BUTYL ETHE	8.50	73	1486	0.04	PPBV	65
36) HEXANE	9.34	57	670	0.03	PPBV	89
38) 1,1-DICHLOROETHANE	8.44	63	667	0.03	PPBV #	50
44) CHLOROFORM	9.45	83	966	0.04	PPBV #	84
45) 2,4-DIMETHYLPENTANE	10.14	57	660	0.03	PPBV #	76
46) 1,1,1-TRICHLOROETHANE	10.36	97	921	0.03	PPBV	82
47) CARBON TETRACHLORIDE	10.92	117	1095	0.03	PPBV	82
48) 1,2-DICHLOROETHANE	10.13	62	519	0.03	PPBV #	49
50) BENZENE	10.79	78	1674	0.04	PPBV	80
53) TRICHLOROETHYLENE	11.76	95	569	0.03	PPBV	93
54) DIBROMOMETHANE	11.53	174	841	0.04	PPBV	92
55) 1,2-DICHLOROPROPANE	11.55	63	393	0.03	PPBV #	36
57) BROMODICHLOROMETHANE	11.74	83	983	0.03	PPBV	90
58) 2,2,4-TRIMETHYLPENTANE	11.77	57	2090	0.03	PPBV #	87
61) HEPTANE	11.99	43	801	0.04	PPBV #	67
62) METHYL ISOBUTYL KETONE	12.64	43	694	0.03	PPBV #	45
63) cis-1,3-DICHLOROPROPENE	12.59	75	783	0.03	PPBV #	68
64) TOLUENE	13.55	92	1008	0.03	PPBV #	88
65) trans-1,3-DICHLOROPROPENE	13.09	75	782	0.04	PPBV #	64
66) 1,1,2-TRICHLOROETHANE	13.27	83	350	0.03	PPBV #	77
70) TETRACHLOROETHYLENE	14.70	164	841	0.04	PPBV	93
71) DIBROMOCHLOROMETHANE	13.99	129	999	0.03	PPBV #	81
72) 1,2-DIBROMOETHANE	14.25	107	852	0.04	PPBV #	97
73) OCTANE	14.49	43	1144	0.04	PPBV #	69
74) 1,1,1,2-TETRACHLOROETHANE	15.39	131	724	0.03	PPBV #	1
75) CHLOROBENZENE	15.42	112	1456	0.04	PPBV #	52
76) ETHYLBENZENE	15.80	91	2153m	0.04	PPBV	
77) m,p-XYLENE	15.97	106	1639	0.06	PPBV #	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50860.D Vial: 3
Acq On : 9 Apr 2015 2:27 am Operator: danat
Sample : IC2031-0.04 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 09:33:06 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

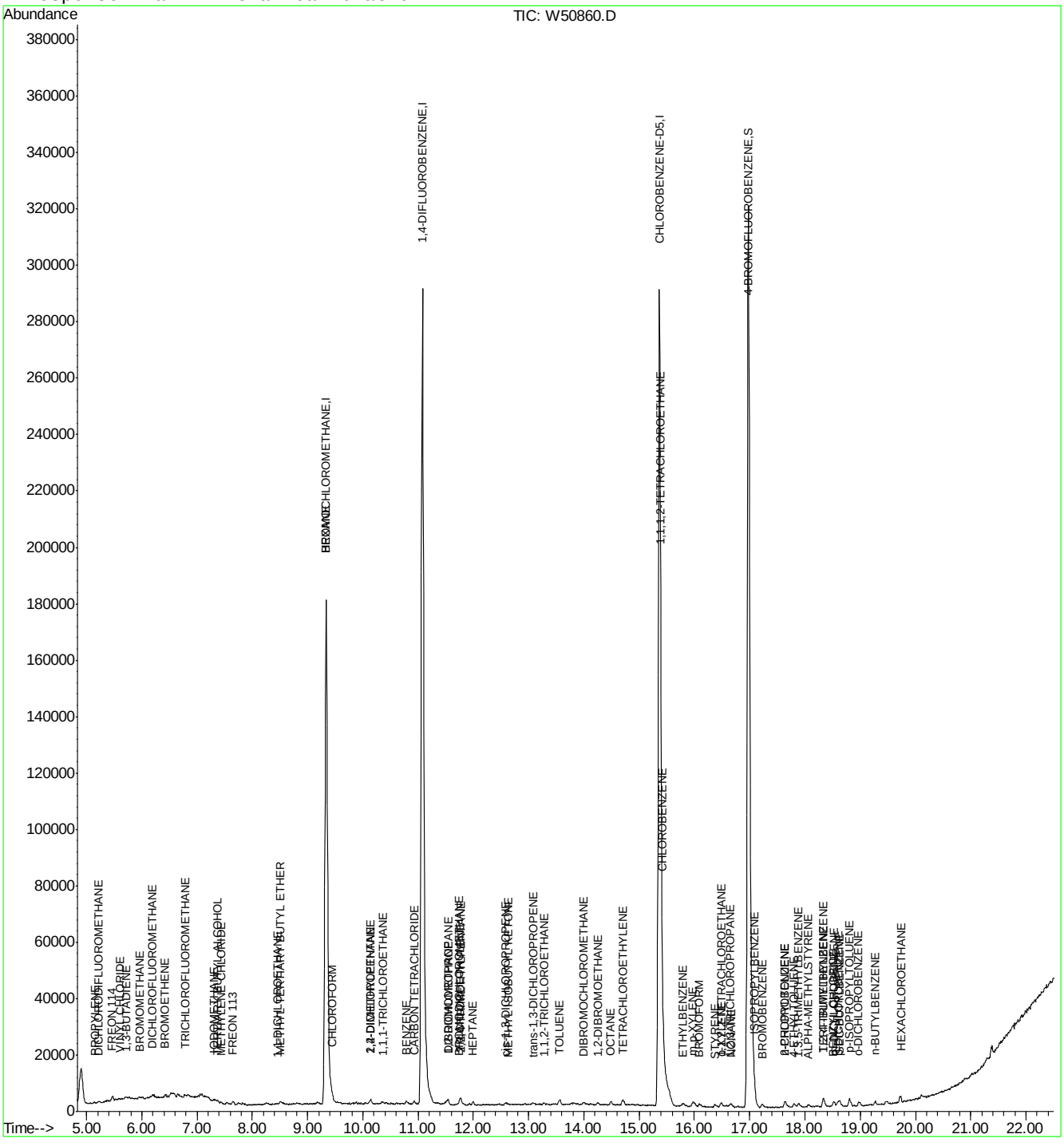
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
78)	o-XYLENE	16.48	106	660	0.03	PPBV	#	61
79)	STYRENE	16.37	104	1146	0.03	PPBV		91
80)	1,2,3-TRICHLOROPROPANE	16.64	75	1006	0.05	PPBV	#	56
81)	NONANE	16.66	43	1032	0.04	PPBV	#	58
82)	BROMOFORM	16.09	173	1049	0.03	PPBV	#	83
84)	1,1,2,2-TETRACHLOROETHANE	16.48	83	1145	0.04	PPBV	#	92
85)	ISOPROPYLBENZENE	17.09	105	2712	0.04	PPBV		86
86)	BROMOBENZENE	17.23	156	836	0.04	PPBV		98
87)	2-CHLOROTOLUENE	17.63	126	513	0.03	PPBV	#	76
88)	n-PROPYLBENZENE	17.65	120	496	0.03	PPBV	#	1
89)	4-ETHYLTOLUENE	17.80	105	2230	0.04	PPBV	#	91
90)	1,3,5-TRIMETHYLBENZENE	17.88	105	2100	0.04	PPBV	#	96
91)	ALPHA-METHYLSTYRENE	18.05	118	806	0.03	PPBV		86
92)	TERT-BUTYLBENZENE	18.33	134	404	0.03	PPBV	#	53
93)	1,2,4-TRIMETHYLBENZENE	18.34	105	1956	0.04	PPBV		97
94)	m-DICHLOROBENZENE	18.53	146	1340	0.04	PPBV		84
95)	BENZYL CHLORIDE	18.50	91	1334	0.04	PPBV	#	70
96)	p-DICHLOROBENZENE	18.59	146	1440	0.04	PPBV		92
97)	SEC-BUTYLBENZENE	18.62	134	542	0.03	PPBV	#	65
98)	p-ISOPROPYLTOLUENE	18.81	134	537	0.03	PPBV		78
99)	o-DICHLOROBENZENE	18.98	146	1349	0.04	PPBV		86
100)	n-BUTYLBENZENE	19.27	134	443	0.03	PPBV		88
101)	HEXACHLOROETHANE	19.73	201	821	0.03	PPBV	#	79

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50860.D Vial: 3
Acq On : 9 Apr 2015 2:27 am Operator: danat
Sample : IC2031-0.04 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 9 9:48 2015 Quant Results File: MW2031.RES

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration



Manual Integration Approval Summary

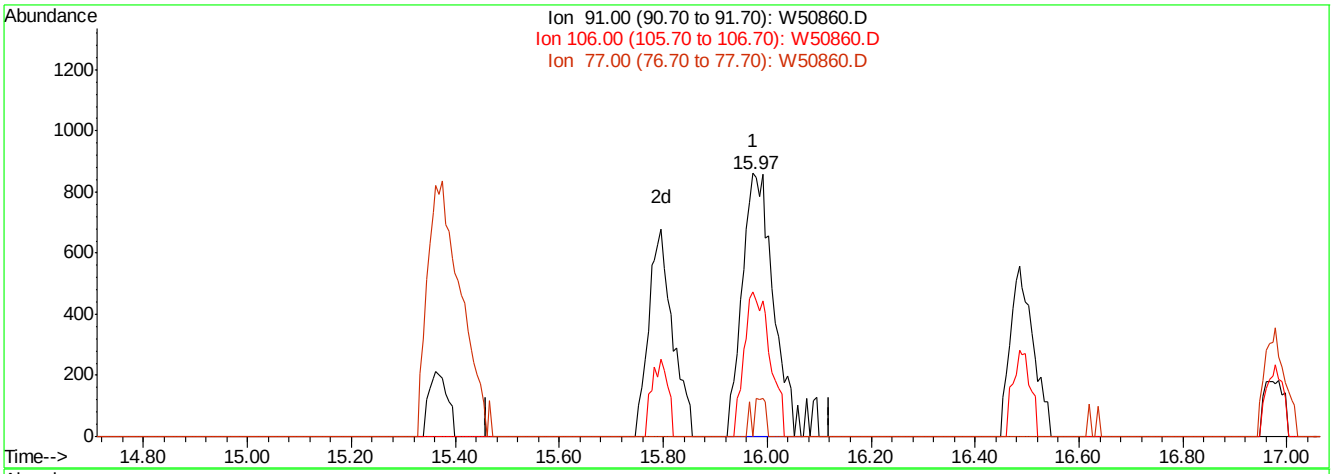
Sample Number:	VW2031-IC2031	**Method:**	TO-15
Lab FileID:	W50860.D	**Analyst approved:**	04/09/15 18:16 Youmin Hu
Injection Time:	04/09/15 02:27	**Supervisor approved:**	04/15/15 14:24 Jessica Reitan-Chu

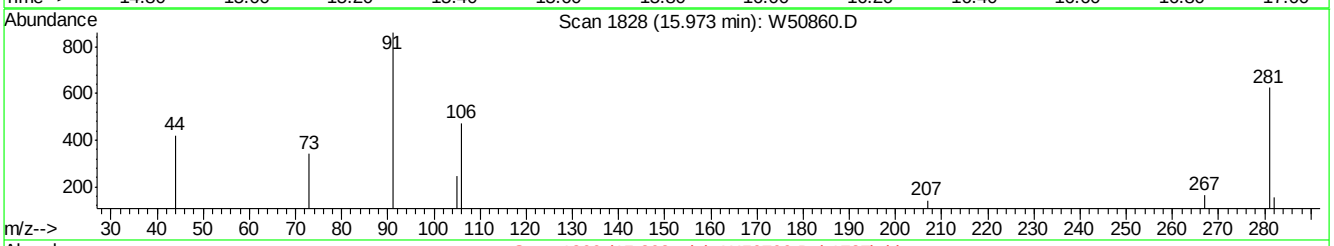
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethylbenzene	100-41-4		15.80	Poor instrument integration

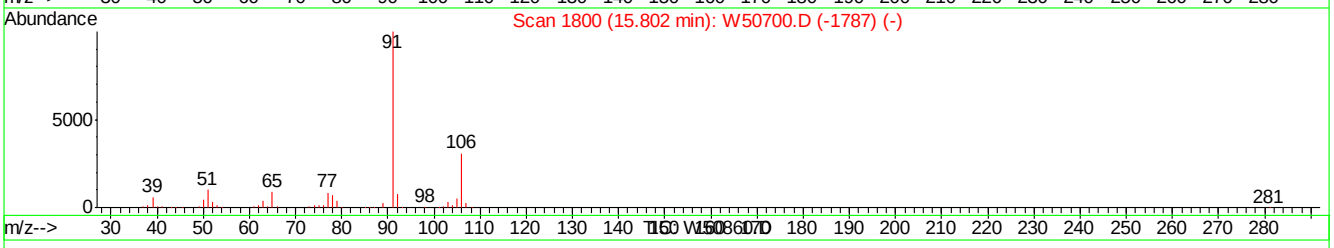
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLD_W\W50860.D Vial: 3
Acq On : 9 Apr 2015 2:27 am Operator: danat
Sample : IC2031-0.04 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 9 18:15 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Multiple Level Calibration







(76) ETHYLBENZENE

15.97min 0.07PPBV

response 3562

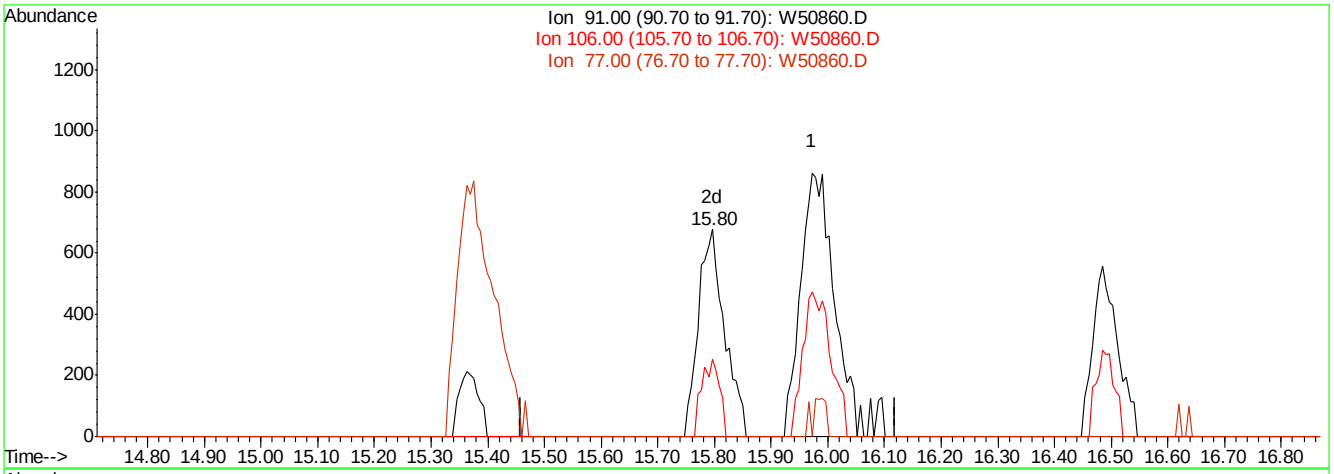
Ion	Exp%	Act%
91.00	100	100
106.00	33.00	46.01
77.00	8.10	6.06
0.00	0.00	0.00

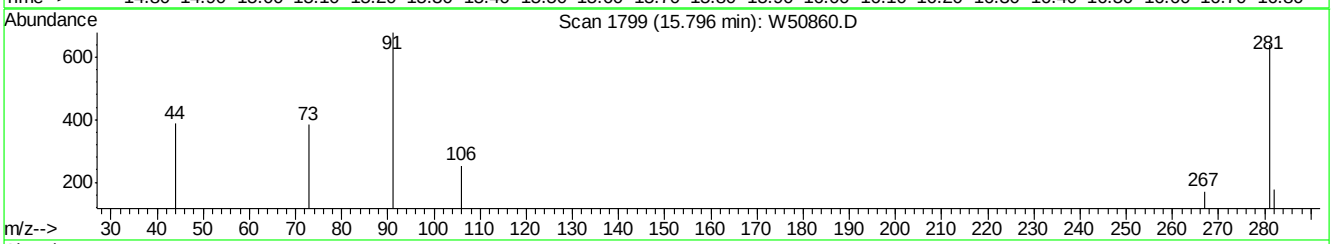
W50860.D MW2031.M Thu Apr 09 18:15:30 2015 MSW

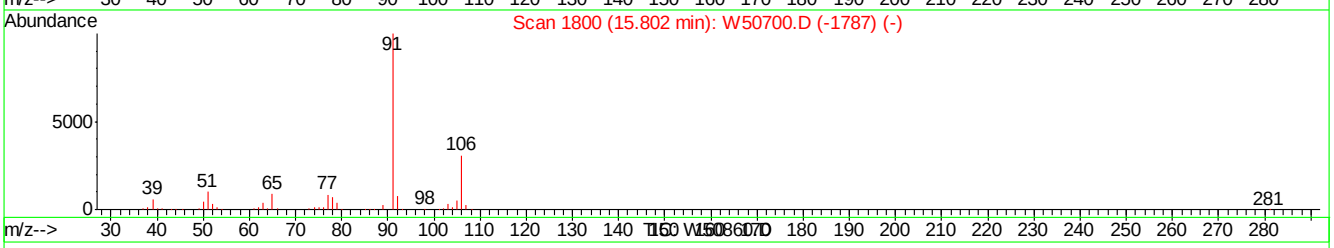
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W50860.D Vial: 3
Acq On : 9 Apr 2015 2:27 am Operator: danat
Sample : IC2031-0.04 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 9 9:48 2015 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Multiple Level Calibration







(76) ETHYLBENZENE

15.80min 0.04PPBV m

response 2153

Ion	Exp%	Act%
91.00	100	100
106.00	33.00	76.13#
77.00	8.10	10.03
0.00	0.00	0.00

W50860.D MW2031.M Thu Apr 09 18:15:45 2015 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50861.D Vial: 1
Acq On : 9 Apr 2015 3:07 am Operator: danat
Sample : IC2031-30 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 09:33:07 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	9.34	128	110048	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	11.08	114	476452	10.00	PPBV	0.00
67) CHLOROBENZENE-D5	15.37	82	250221	10.00	PPBV	0.00
System Monitoring Compounds						
83) 4-BROMOFLUOROBENZENE	16.97	95	276380	9.52	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 95.20%			
Target Compounds						Qvalue
3) FREON 152A	5.07	65	203719	27.08	PPBV	100
4) CHLORODIFLUOROMETHANE	5.11	67	89519	27.25	PPBV	99
5) DICHLORODIFLUOROMETHANE	5.22	85	996166	27.31	PPBV	100
6) PROPYLENE	5.15	41	244908	26.28	PPBV	99
7) FREON 114	5.46	85	1013715	27.28	PPBV	99
9) CHLOROMETHANE	5.38	52	94887	25.73	PPBV #	83
10) VINYL CHLORIDE	5.58	62	387847	26.32	PPBV	99
11) 1,3-BUTADIENE	5.71	54	295721	25.91	PPBV	99
12) n-BUTANE	5.75	58	79426	26.03	PPBV	100
13) BROMOMETHANE	5.96	94	366219	26.92	PPBV	98
14) CHLOROETHANE	6.11	64	219055	26.86	PPBV	88
15) DICHLOROFLUOROMETHANE	6.18	67	814770	26.95	PPBV	99
16) ACROLEIN	6.52	56	156318	27.64	PPBV	99
17) TRICHLOROFLUOROMETHANE	6.78	101	1003216	27.37	PPBV	100
18) ISOPROPYL ALCOHOL	6.82	45	608530	29.18	PPBV	100
19) ACETONE	6.63	58	179117	27.03	PPBV	97
21) ACRYLONITRILE	7.03	53	298251	27.55	PPBV	99
22) PENTANE	7.07	57	106826	24.91	PPBV	95
23) IODOMETHANE	7.30	142	1085862	27.15	PPBV	99
24) 1,1-DICHLOROETHYLENE	7.34	96	372604	27.67	PPBV	99
25) CARBON DISULFIDE	7.75	76	994103	26.93	PPBV	100
26) ETHANOL	6.19	45	137705	27.85	PPBV	100
27) ACETONITRILE	6.40	41	277925	27.43	PPBV	99
28) BROMOETHENE	6.43	106	389008	27.56	PPBV	100
29) METHYLENE CHLORIDE	7.44	84	307562	26.86	PPBV	99
30) 3-CHLOROPROPENE	7.54	76	175019	27.24	PPBV	99
31) FREON 113	7.64	151	750500	28.06	PPBV	99
32) TRANS-1,2-DICHLOROETHYLENE	8.25	96	396427	27.09	PPBV	98
33) TERTIARY BUTYL ALCOHOL	7.36	59	752678	30.43	PPBV	100
34) METHYL TERTIARY BUTYL ETHE	8.48	73	1104117	28.47	PPBV	99
35) TETRAHYDROFURAN	9.84	72	178839	28.84	PPBV	99
36) HEXANE	9.33	57	610338	28.75	PPBV	98
37) VINYL ACETATE	8.53	86	107586	28.20	PPBV	97
38) 1,1-DICHLOROETHANE	8.44	63	624345	27.67	PPBV	99
39) METHYL ETHYL KETONE	8.78	72	183866	29.41	PPBV	98
40) cis-1,2-DICHLOROETHYLENE	9.18	96	413668	27.45	PPBV	99
41) DI-ISOPROPYL ETHER	9.33	87	370202	29.53	PPBV	99
42) ETHYL ACETATE	9.35	61	125838	29.87	PPBV #	69
43) METHYL ACRYLATE	9.35	55	696138	29.39	PPBV	99
44) CHLOROFORM	9.44	83	787015	27.73	PPBV	99
45) 2,4-DIMETHYLPENTANE	10.14	57	685115	28.37	PPBV	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50861.D Vial: 1
Acq On : 9 Apr 2015 3:07 am Operator: danat
Sample : IC2031-30 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 09:33:07 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,1,1-TRICHLOROETHANE	10.36	97	829755	27.79	PPBV		100
47)	CARBON TETRACHLORIDE	10.93	117	945361	28.21	PPBV		100
48)	1,2-DICHLOROETHANE	10.13	62	483553	27.99	PPBV		100
50)	BENZENE	10.79	78	1206820	27.66	PPBV		100
51)	CYCLOHEXANE	11.05	84	572896	27.86	PPBV		97
52)	2,3-DIMETHYLPENTANE	11.23	71	277157	28.33	PPBV		100
53)	TRICHLOROETHYLENE	11.77	95	587086	28.89	PPBV		99
54)	DIBROMOMETHANE	11.54	174	646119	29.02	PPBV		100
55)	1,2-DICHLOROPROPANE	11.55	63	426390	29.51	PPBV		99
56)	ETHYL ACRYLATE	11.49	55	822501	30.94	PPBV		99
57)	BROMODICHLOROMETHANE	11.74	83	929179	29.15	PPBV		100
58)	2,2,4-TRIMETHYLPENTANE	11.77	57	2002470	29.53	PPBV		100
59)	1,4-DIOXANE	11.77	88	285578	32.03	PPBV	#	88
60)	METHYL METHACRYLATE	11.91	69	438334	29.64	PPBV		98
61)	HEPTANE	12.00	43	648176	28.35	PPBV		100
62)	METHYL ISOBUTYL KETONE	12.60	43	788466	32.97	PPBV		99
63)	cis-1,3-DICHLOROPROPENE	12.58	75	716074	28.78	PPBV		100
64)	TOLUENE	13.56	92	968129	28.81	PPBV		100
65)	trans-1,3-DICHLOROPROPENE	13.08	75	632641	29.06	PPBV		99
66)	1,1,2-TRICHLOROETHANE	13.28	83	409085	28.70	PPBV		100
68)	ETHYL METHACRYLATE	13.77	69	745270	27.96	PPBV		100
69)	2-HEXANONE	13.78	58	451000	29.98	PPBV		98
70)	TETRACHLOROETHYLENE	14.70	164	773513	25.49	PPBV		100
71)	DIBROMOCHLOROMETHANE	14.00	129	1050189	25.66	PPBV		100
72)	1,2-DIBROMOETHANE	14.25	107	820696	25.56	PPBV		100
73)	OCTANE	14.49	43	898119	24.67	PPBV		99
74)	1,1,1,2-TETRACHLOROETHANE	15.39	131	756939	25.37	PPBV	#	73
75)	CHLOROBENZENE	15.41	112	1361099	25.41	PPBV		99
76)	ETHYLBENZENE	15.79	91	2003884	25.26	PPBV		100
77)	m,p-XYLENE	15.98	106	1746208	51.01	PPBV		100
78)	o-XYLENE	16.49	106	818944	25.73	PPBV		100
79)	STYRENE	16.37	104	1308985	25.62	PPBV		99
80)	1,2,3-TRICHLOROPROPANE	16.62	75	755006	25.84	PPBV		100
81)	NONANE	16.66	43	952100	24.86	PPBV		99
82)	BROMOFORM	16.11	173	1129238	26.91	PPBV		99
84)	1,1,2,2-TETRACHLOROETHANE	16.48	83	1075622	26.25	PPBV		100
85)	ISOPROPYLBENZENE	17.10	105	2392243	25.62	PPBV		100
86)	BROMOBENZENE	17.23	156	800605	26.03	PPBV		99
87)	2-CHLOROTOLUENE	17.63	126	586187	25.71	PPBV	#	86
88)	n-PROPYLBENZENE	17.65	120	683157	26.23	PPBV		96
89)	4-ETHYLTOLUENE	17.80	105	2132051	26.09	PPBV		100
90)	1,3,5-TRIMETHYLBENZENE	17.88	105	2017431	25.90	PPBV		100
91)	ALPHA-METHYLSTYRENE	18.06	118	947989	26.13	PPBV		100
92)	TERT-BUTYLBENZENE	18.33	134	506005	26.13	PPBV		99
93)	1,2,4-TRIMETHYLBENZENE	18.34	105	1917249	26.56	PPBV		98
94)	m-DICHLOROBENZENE	18.53	146	1225446	26.76	PPBV		100
95)	BENZYL CHLORIDE	18.50	91	1370793	28.04	PPBV		99
96)	p-DICHLOROBENZENE	18.60	146	1257265	27.31	PPBV		100
97)	SEC-BUTYLBENZENE	18.63	134	607033	26.40	PPBV		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50861.D Vial: 1
Acq On : 9 Apr 2015 3:07 am Operator: danat
Sample : IC2031-30 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 09:33:07 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

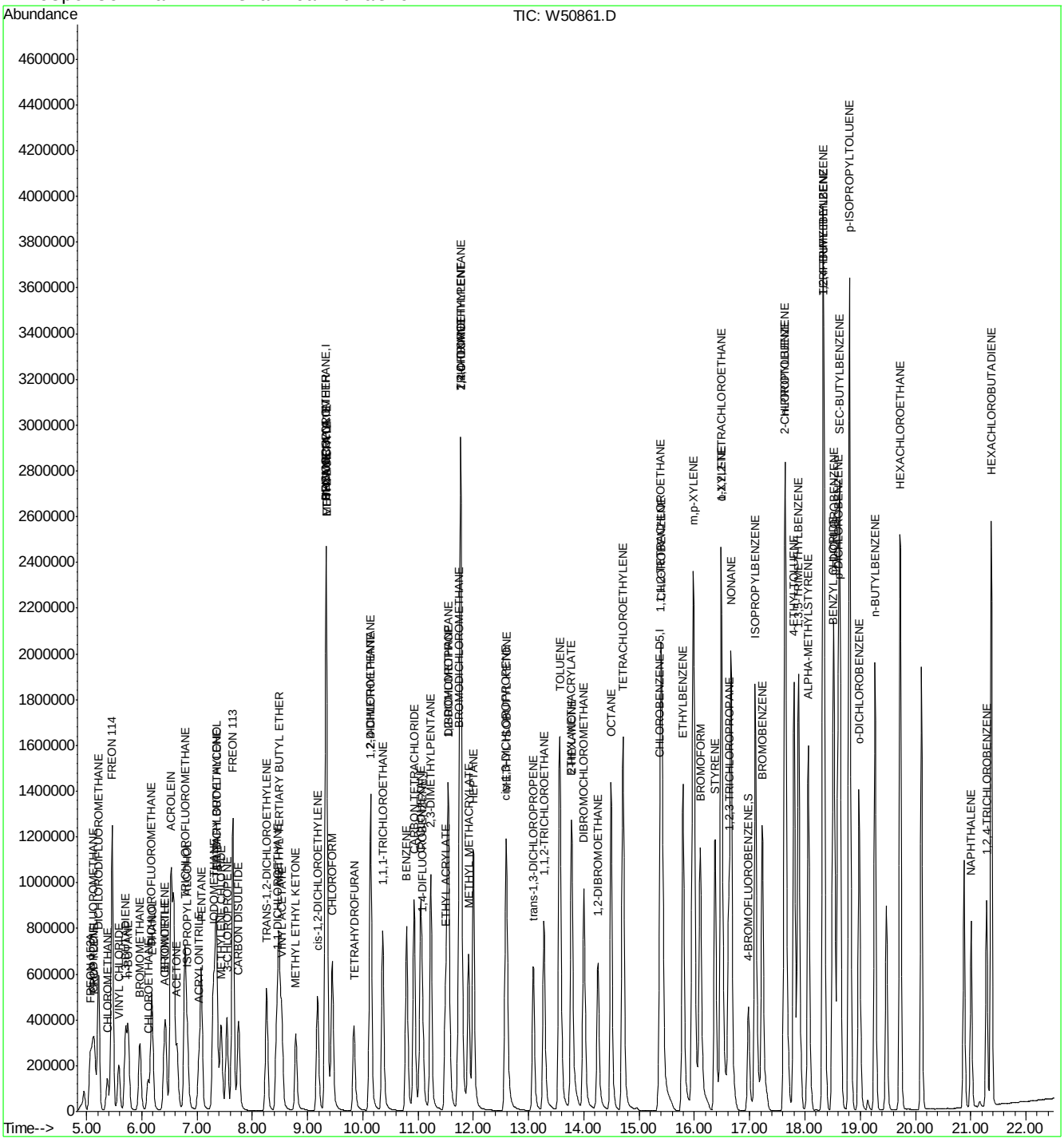
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	p-ISOPROPYLTOLUENE	18.80	134	628054	26.85	PPBV	98
99)	o-DICHLOROBENZENE	18.98	146	1099531	26.46	PPBV	100
100)	n-BUTYLBENZENE	19.27	134	531650	26.69	PPBV	100
101)	HEXACHLOROETHANE	19.73	201	834983	26.44	PPBV	99
102)	HEXACHLOROBUTADIENE	21.37	225	798415	26.45	PPBV	100
103)	1,2,4-TRICHLOROBENZENE	21.29	180	466989	28.66	PPBV	100
104)	NAPHTHALENE	21.01	128	993484	29.85	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50861.D Vial: 1
Acq On : 9 Apr 2015 3:07 am Operator: danat
Sample : IC2031-30 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 9 9:41 2015 Quant Results File: MW2031.RES

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50863.D Vial: 1
Acq On : 9 Apr 2015 4:28 am Operator: danat
Sample : IC2031-40 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 09:33:08 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	9.34	128	123049	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	11.08	114	504510	10.00	PPBV	0.00
67) CHLOROBENZENE-D5	15.38	82	271480	10.00	PPBV	0.01

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	16.98	95	279321	8.87	PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 88.70%

Target Compounds						Qvalue
3) FREON 152A	5.07	65	280088	33.30	PPBV	99
4) CHLORODIFLUOROMETHANE	5.11	67	122585	33.37	PPBV	99
5) DICHLORODIFLUOROMETHANE	5.21	85	1380753	33.85	PPBV	100
6) PROPYLENE	5.15	41	336295	32.27	PPBV	99
7) FREON 114	5.46	85	1437020	34.58	PPBV	98
9) CHLOROMETHANE	5.38	52	133161	32.29	PPBV #	82
10) VINYL CHLORIDE	5.58	62	544686	33.06	PPBV	100
11) 1,3-BUTADIENE	5.71	54	414922	32.51	PPBV	99
12) n-BUTANE	5.75	58	111350	32.64	PPBV	97
13) BROMOMETHANE	5.96	94	520104	34.19	PPBV	99
14) CHLOROETHANE	6.11	64	304064	33.35	PPBV	91
15) DICHLOROFLUOROMETHANE	6.18	67	1130581	33.44	PPBV	99
16) ACROLEIN	6.52	56	215435	34.07	PPBV	99
17) TRICHLOROFLUOROMETHANE	6.78	101	1378936	33.64	PPBV	100
18) ISOPROPYL ALCOHOL	6.83	45	847166	36.34	PPBV	99
19) ACETONE	6.63	58	259823	35.07	PPBV	97
21) ACRYLONITRILE	7.03	53	416352	34.39	PPBV	99
22) PENTANE	7.07	57	147224	30.71	PPBV	99
23) IODOMETHANE	7.29	142	1554238	34.75	PPBV	99
24) 1,1-DICHLOROETHYLENE	7.34	96	529946	35.20	PPBV	98
25) CARBON DISULFIDE	7.75	76	1389617	33.67	PPBV	100
26) ETHANOL	6.19	45	197931	35.81	PPBV	99
27) ACETONITRILE	6.40	41	383992	33.89	PPBV	99
28) BROMOETHENE	6.43	106	552851	35.03	PPBV	99
29) METHYLENE CHLORIDE	7.43	84	431966	33.74	PPBV	99
30) 3-CHLOROPROPENE	7.54	76	248086	34.53	PPBV	99
31) FREON 113	7.64	151	1063882	35.57	PPBV	99
32) TRANS-1,2-DICHLOROETHYLENE	8.25	96	556967	34.04	PPBV	99
33) TERTIARY BUTYL ALCOHOL	7.36	59	1083257	39.17	PPBV	99
34) METHYL TERTIARY BUTYL ETHE	8.48	73	1578285	36.40	PPBV	100
35) TETRAHYDROFURAN	9.84	72	254732	36.73	PPBV	98
36) HEXANE	9.34	57	854695	36.01	PPBV	96
37) VINYL ACETATE	8.54	86	155193	36.38	PPBV	99
38) 1,1-DICHLOROETHANE	8.44	63	877941	34.80	PPBV	100
39) METHYL ETHYL KETONE	8.79	72	263143	37.64	PPBV	97
40) cis-1,2-DICHLOROETHYLENE	9.18	96	578995	34.36	PPBV	99
41) DI-ISOPROPYL ETHER	9.33	87	530219	37.83	PPBV	100
42) ETHYL ACETATE	9.35	61	181045	38.43	PPBV #	60
43) METHYL ACRYLATE	9.35	55	988493	37.33	PPBV	99
44) CHLOROFORM	9.45	83	1101891	34.72	PPBV	99
45) 2,4-DIMETHYLPENTANE	10.14	57	960271	35.56	PPBV	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50863.D Vial: 1
Acq On : 9 Apr 2015 4:28 am Operator: danat
Sample : IC2031-40 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 09:33:08 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,1,1-TRICHLOROETHANE	10.36	97	1171409	35.09	PPBV		100
47)	CARBON TETRACHLORIDE	10.93	117	1327411	35.42	PPBV		100
48)	1,2-DICHLOROETHANE	10.13	62	676987	35.04	PPBV		100
50)	BENZENE	10.79	78	1690140	36.58	PPBV		100
51)	CYCLOHEXANE	11.05	84	804167	36.93	PPBV		96
52)	2,3-DIMETHYLPENTANE	11.23	71	390733	37.72	PPBV		99
53)	TRICHLOROETHYLENE	11.77	95	826898	38.42	PPBV		98
54)	DIBROMOMETHANE	11.54	174	906180	38.44	PPBV		99
55)	1,2-DICHLOROPROPANE	11.55	63	603333	39.43	PPBV		99
56)	ETHYL ACRYLATE	11.50	55	1172778	41.66	PPBV		100
57)	BROMODICHLOROMETHANE	11.74	83	1307918	38.75	PPBV		100
58)	2,2,4-TRIMETHYLPENTANE	11.77	57	2812610	39.17	PPBV		100
59)	1,4-DIOXANE	11.77	88	423120	44.82	PPBV	#	83
60)	METHYL METHACRYLATE	11.91	69	621974	39.72	PPBV		98
61)	HEPTANE	12.00	43	905021	37.38	PPBV		99
62)	METHYL ISOBUTYL KETONE	12.61	43	1132450	44.72	PPBV		99
63)	cis-1,3-DICHLOROPROPENE	12.58	75	1008730	38.29	PPBV		99
64)	TOLUENE	13.56	92	1369834	38.49	PPBV		99
65)	trans-1,3-DICHLOROPROPENE	13.09	75	896718	38.89	PPBV		99
66)	1,1,2-TRICHLOROETHANE	13.28	83	578560	38.33	PPBV		100
68)	ETHYL METHACRYLATE	13.77	69	1070776	37.03	PPBV		100
69)	2-HEXANONE	13.78	58	653555	40.05	PPBV		97
70)	TETRACHLOROETHYLENE	14.71	164	1083836	32.92	PPBV		100
71)	DIBROMOCHLOROMETHANE	14.00	129	1472387	33.16	PPBV		100
72)	1,2-DIBROMOETHANE	14.25	107	1158629	33.26	PPBV		100
73)	OCTANE	14.49	43	1248101	31.60	PPBV		98
74)	1,1,1,2-TETRACHLOROETHANE	15.39	131	1068732	33.01	PPBV	#	65
75)	CHLOROBENZENE	15.42	112	1916035	32.98	PPBV		100
76)	ETHYLBENZENE	15.80	91	2836183	32.95	PPBV		100
77)	m,p-XYLENE	15.98	106	2460109	66.23	PPBV		99
78)	o-XYLENE	16.49	106	1151821	33.35	PPBV		100
79)	STYRENE	16.38	104	1848098	33.34	PPBV		99
80)	1,2,3-TRICHLOROPROPANE	16.62	75	1067488	33.67	PPBV		100
81)	NONANE	16.66	43	1325692	31.91	PPBV		98
82)	BROMOFORM	16.11	173	1596319	35.06	PPBV		99
84)	1,1,2,2-TETRACHLOROETHANE	16.48	83	1521041	34.21	PPBV		100
85)	ISOPROPYLBENZENE	17.10	105	3366290	33.23	PPBV		99
86)	BROMOBENZENE	17.23	156	1126727	33.77	PPBV		99
87)	2-CHLOROTOLUENE	17.63	126	827508	33.45	PPBV	#	82
88)	n-PROPYLBENZENE	17.65	120	959506	33.95	PPBV		96
89)	4-ETHYLTOLUENE	17.81	105	3086050	34.81	PPBV		99
90)	1,3,5-TRIMETHYLBENZENE	17.89	105	2763883	32.70	PPBV		98
91)	ALPHA-METHYLSTYRENE	18.06	118	1340046	34.05	PPBV		99
92)	TERT-BUTYLBENZENE	18.33	134	704362	33.52	PPBV		98
93)	1,2,4-TRIMETHYLBENZENE	18.34	105	2695885	34.42	PPBV		97
94)	m-DICHLOROBENZENE	18.53	146	1711160	34.45	PPBV		100
95)	BENZYL CHLORIDE	18.50	91	1973633	37.21	PPBV		99
96)	p-DICHLOROBENZENE	18.60	146	1781385	35.66	PPBV		99
97)	SEC-BUTYLBENZENE	18.63	134	851357	34.13	PPBV		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50863.D Vial: 1
Acq On : 9 Apr 2015 4:28 am Operator: danat
Sample : IC2031-40 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 09:33:08 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 09:31:40 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	p-ISOPROPYLTOLUENE	18.80	134	874111	34.44	PPBV	98
99)	o-DICHLOROBENZENE	18.98	146	1551550	34.42	PPBV	100
100)	n-BUTYLBENZENE	19.27	134	752654	34.82	PPBV	100
101)	HEXACHLOROETHANE	19.73	201	1174725	34.28	PPBV	99
102)	HEXACHLOROBUTADIENE	21.37	225	1186515	36.23	PPBV	100
103)	1,2,4-TRICHLOROBENZENE	21.29	180	760666	43.03	PPBV	100
104)	NAPHTHALENE	21.01	128	1568341	43.43	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

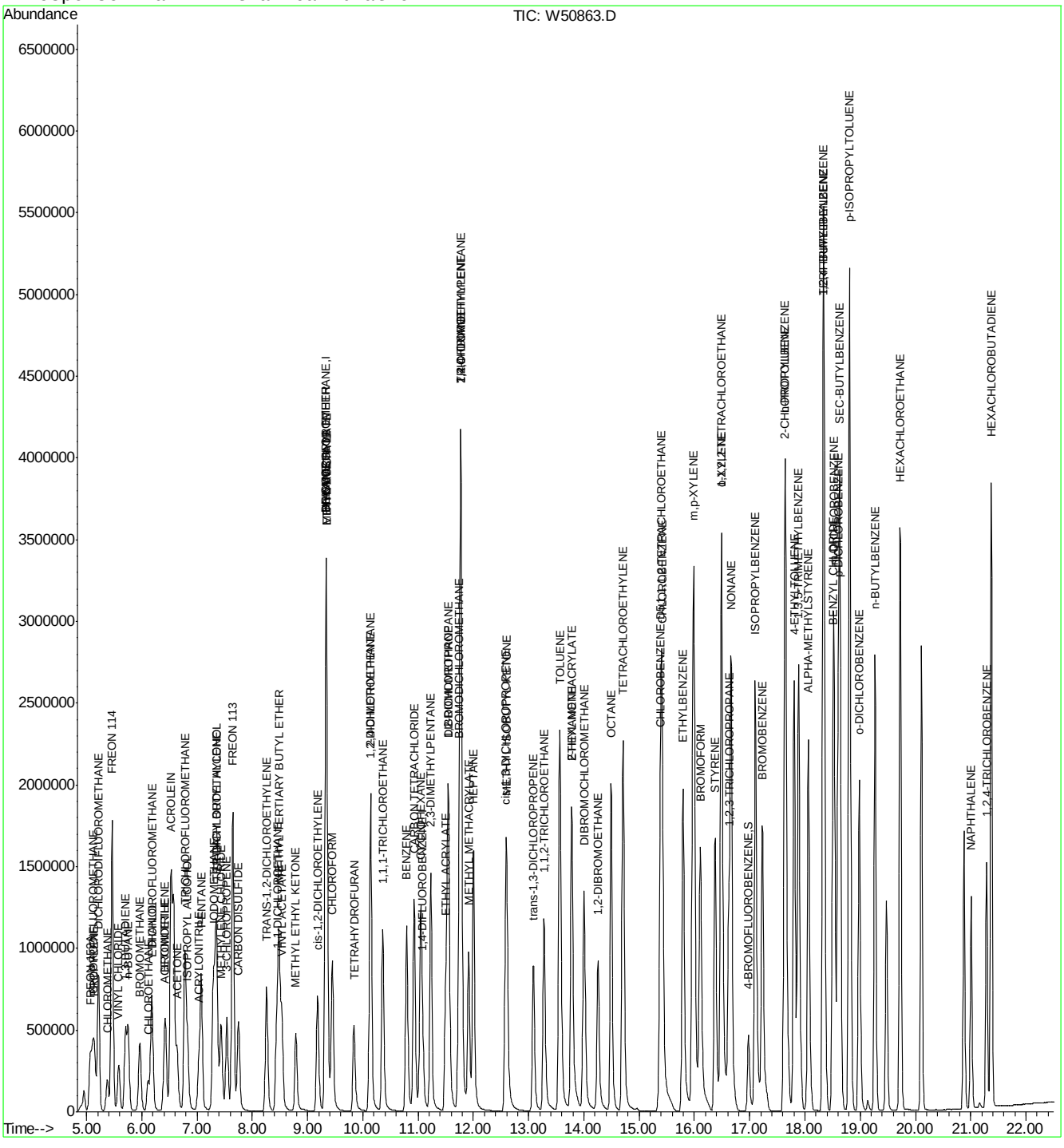
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50863.D
Acq On : 9 Apr 2015 4:28 am
Sample : IC2031-40
Misc : MS83140,VW2031,,,,,1
MS Integration Params: rteint.p
Quant Time: Apr 9 9:41 2015

Vial: 1
Operator: danat
Inst : MSW
Multiplr: 1.00

Quant Results File: MW2031.RES

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50865.D Vial: 4
Acq On : 9 Apr 2015 5:48 am Operator: danat
Sample : ICV2031-10 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 18:12:47 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	9.33	128	118473	10.00	PPBV	0.00
49) 1,4-DIFLUOROBENZENE	11.08	114	509455	10.00	PPBV	0.00
67) CHLOROBENZENE-D5	15.36	82	228359	10.00	PPBV	0.00

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	16.97	95	266147	10.13	PPBV	0.00

Spiked Amount 10.000 Range 65 - 128 Recovery = 101.30%

Target Compounds						Qvalue
3) FREON 152A	5.07	65	77523	10.33	PPBV	100
4) CHLORODIFLUOROMETHANE	5.11	67	34170	10.31	PPBV	99
5) DICHLORODIFLUOROMETHANE	5.22	85	364588	9.65	PPBV	100
6) PROPYLENE	5.15	41	86841	8.35	PPBV	99
7) FREON 114	5.46	85	387858	10.17	PPBV	98
9) CHLOROMETHANE	5.38	52	36594	10.09	PPBV	97
10) VINYL CHLORIDE	5.58	62	149996	10.29	PPBV	100
11) 1,3-BUTADIENE	5.71	54	117196	10.13	PPBV	99
12) n-BUTANE	5.76	58	31386	10.45	PPBV	98
13) BROMOMETHANE	5.96	94	144388	10.41	PPBV	98
14) CHLOROETHANE	6.11	64	85604	10.40	PPBV	95
15) DICHLOROFLUOROMETHANE	6.18	67	322871	9.85	PPBV	99
16) ACROLEIN	6.52	56	59709	9.35	PPBV	98
17) TRICHLOROFLUOROMETHANE	6.78	101	393375	10.53	PPBV	100
18) ISOPROPYL ALCOHOL	6.82	45	210575	8.99	PPBV	100
19) ACETONE	6.64	58	67770	9.31	PPBV	99
21) ACRYLONITRILE	7.03	53	115171	9.71	PPBV	99
22) PENTANE	7.07	57	42409	8.93	PPBV	97
23) IODOMETHANE	7.29	142	437465	10.78	PPBV	100
24) 1,1-DICHLOROETHYLENE	7.34	96	148140	9.81	PPBV	98
25) CARBON DISULFIDE	7.75	76	389021	9.94	PPBV	100
26) ETHANOL	6.19	45	52831	9.02	PPBV	96
27) ACETONITRILE	6.40	41	105303	9.20	PPBV	99
28) BROMOETHENE	6.43	106	154679	10.84	PPBV	99
29) METHYLENE CHLORIDE	7.43	84	122600	9.90	PPBV	99
30) 3-CHLOROPROPENE	7.54	76	69694	10.97	PPBV	100
31) FREON 113	7.64	151	302695	11.09	PPBV	98
32) TRANS-1,2-DICHLOROETHYLENE	8.25	96	157796	9.75	PPBV	99
33) TERTIARY BUTYL ALCOHOL	7.35	59	249984	9.27	PPBV	100
34) METHYL TERTIARY BUTYL ETHE	8.48	73	408046	9.86	PPBV	100
35) TETRAHYDROFURAN	9.84	72	64102	10.51	PPBV	100
36) HEXANE	9.33	57	227810	10.60	PPBV	99
37) VINYL ACETATE	8.53	86	40743	11.14	PPBV	98
38) 1,1-DICHLOROETHANE	8.44	63	245802	10.85	PPBV	100
39) METHYL ETHYL KETONE	8.78	72	64630	9.45	PPBV	99
40) cis-1,2-DICHLOROETHYLENE	9.18	96	163982	9.79	PPBV	99
41) DI-ISOPROPYL ETHER	9.32	87	132794	10.35	PPBV	99
42) ETHYL ACETATE	9.34	61	43935	10.53	PPBV	99
43) METHYL ACRYLATE	9.35	55	250247	10.07	PPBV	100
44) CHLOROFORM	9.44	83	310655	10.70	PPBV	100
45) 2,4-DIMETHYLPENTANE	10.14	57	259965	11.01	PPBV	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50865.D Vial: 4
Acq On : 9 Apr 2015 5:48 am Operator: danat
Sample : ICV2031-10 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 18:12:47 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,1-TRICHLOROETHANE	10.36	97	327932	10.81	PPBV	100
47)	CARBON TETRACHLORIDE	10.92	117	370652	10.83	PPBV	100
48)	1,2-DICHLOROETHANE	10.12	62	188895	10.85	PPBV	100
50)	BENZENE	10.79	78	469178	10.47	PPBV	100
51)	CYCLOHEXANE	11.04	84	219924	10.17	PPBV	99
52)	2,3-DIMETHYLPENTANE	11.22	71	105500	11.05	PPBV	100
53)	TRICHLOROETHYLENE	11.77	95	222081	11.16	PPBV	98
54)	DIBROMOMETHANE	11.53	174	252029	10.79	PPBV	98
55)	1,2-DICHLOROPROPANE	11.55	63	156575	10.96	PPBV	99
56)	ETHYL ACRYLATE	11.49	55	277438	9.97	PPBV	99
57)	BROMODICHLOROMETHANE	11.73	83	352552	11.14	PPBV	100
58)	2,2,4-TRIMETHYLPENTANE	11.77	57	737111	10.98	PPBV	100
59)	1,4-DIOXANE	11.77	88	93245	9.42	PPBV	98
60)	METHYL METHACRYLATE	11.91	69	154744	10.43	PPBV	99
61)	HEPTANE	12.00	43	247167	10.45	PPBV	100
62)	METHYL ISOBUTYL KETONE	12.60	43	241430	9.39	PPBV	100
63)	cis-1,3-DICHLOROPROPENE	12.58	75	269825	10.97	PPBV	98
64)	TOLUENE	13.55	92	363841	11.02	PPBV	100
65)	trans-1,3-DICHLOROPROPENE	13.08	75	235178	10.50	PPBV	99
66)	1,1,2-TRICHLOROETHANE	13.27	83	152883	11.18	PPBV	100
68)	ETHYL METHACRYLATE	13.77	69	236862	10.40	PPBV	100
69)	2-HEXANONE	13.78	58	131519	9.75	PPBV	99
70)	TETRACHLOROETHYLENE	14.70	164	294774	11.33	PPBV	99
71)	DIBROMOCHLOROMETHANE	14.00	129	401311	11.86	PPBV	99
72)	1,2-DIBROMOETHANE	14.25	107	303662	11.22	PPBV	100
73)	OCTANE	14.49	43	342674	11.00	PPBV	100
74)	1,1,1,2-TETRACHLOROETHANE	15.39	131	286018	11.50	PPBV	96
75)	CHLOROBENZENE	15.41	112	508043	11.19	PPBV	99
76)	ETHYLBENZENE	15.79	91	736036	11.02	PPBV	100
77)	m,p-XYLENE	15.98	106	637633	22.65	PPBV	99
78)	o-XYLENE	16.48	106	296639	11.54	PPBV	99
79)	STYRENE	16.37	104	472447	11.42	PPBV	99
80)	1,2,3-TRICHLOROPROPANE	16.62	75	269573	10.09	PPBV	100
81)	NONANE	16.66	43	356914	11.31	PPBV	100
82)	BROMOFORM	16.10	173	411130	11.87	PPBV	100
84)	1,1,2,2-TETRACHLOROETHANE	16.48	83	373420	10.57	PPBV	100
85)	ISOPROPYLBENZENE	17.10	105	872987	10.94	PPBV	100
86)	BROMOBENZENE	17.23	156	293912	11.18	PPBV	98
87)	2-CHLOROTOLUENE	17.63	126	214890	11.32	PPBV	99
88)	n-PROPYLBENZENE	17.65	120	243984	11.56	PPBV	98
89)	4-ETHYLTOLUENE	17.80	105	756333	10.99	PPBV	100
90)	1,3,5-TRIMETHYLBENZENE	17.88	105	717244	10.86	PPBV	100
91)	ALPHA-METHYLSTYRENE	18.06	118	333876	11.43	PPBV	99
92)	TERT-BUTYLBENZENE	18.33	134	180847	11.37	PPBV	99
93)	1,2,4-TRIMETHYLBENZENE	18.34	105	663565	10.88	PPBV	99
94)	m-DICHLOROBENZENE	18.52	146	436195	11.15	PPBV	99
95)	BENZYL CHLORIDE	18.50	91	446027	10.81	PPBV	99
96)	p-DICHLOROBENZENE	18.59	146	438110	10.92	PPBV	99
97)	SEC-BUTYLBENZENE	18.63	134	214934	11.15	PPBV	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50865.D Vial: 4
Acq On : 9 Apr 2015 5:48 am Operator: danat
Sample : ICV2031-10 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 09 18:12:47 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

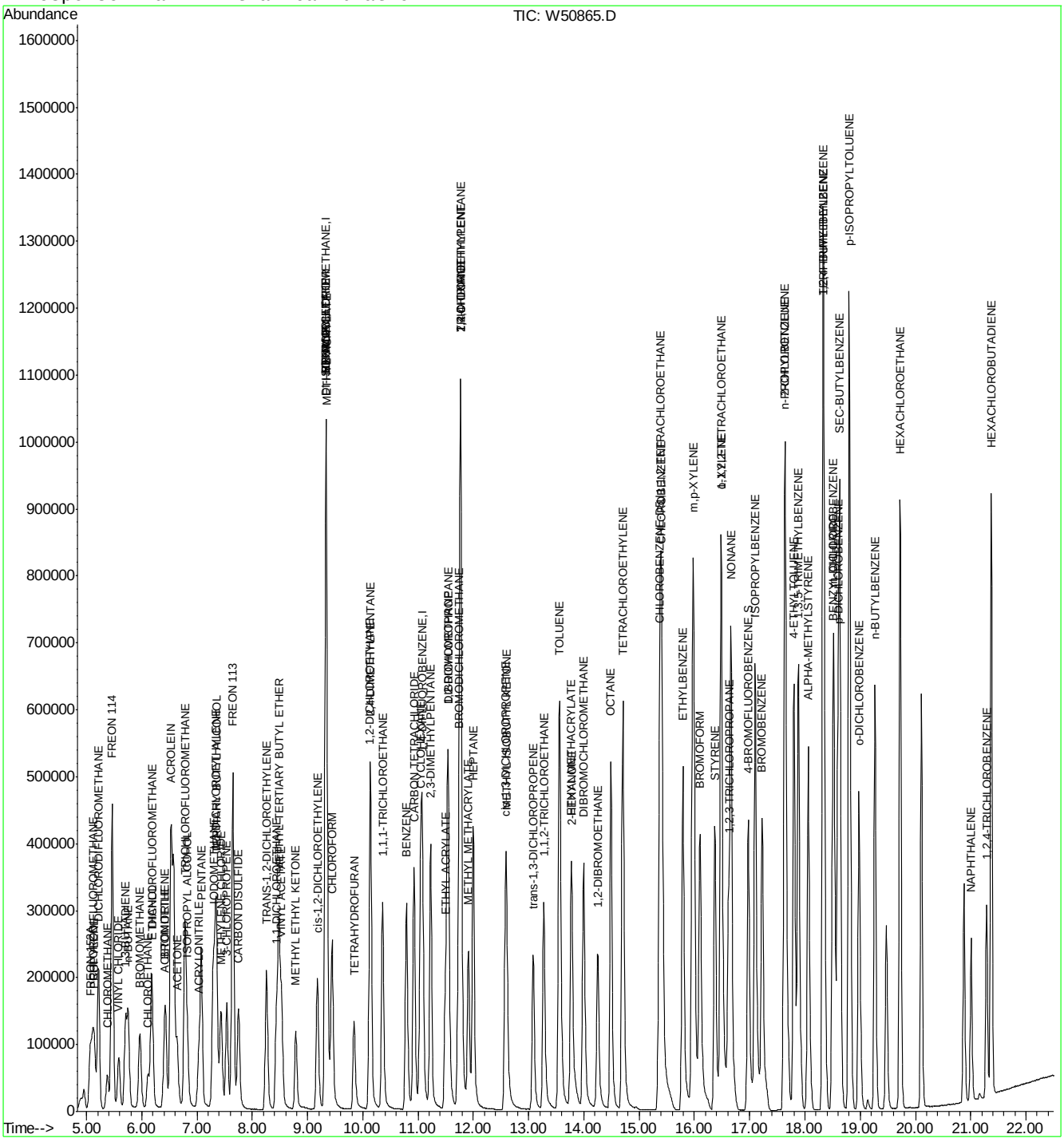
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	p-ISOPROPYLTOLUENE	18.80	134	219915	11.18	PPBV	99
99)	o-DICHLOROBENZENE	18.98	146	389729	10.57	PPBV	100
100)	n-BUTYLBENZENE	19.27	134	183924	11.23	PPBV	99
101)	HEXACHLOROETHANE	19.72	201	304918	11.51	PPBV	99
102)	HEXACHLOROBUTADIENE	21.37	225	285495	10.50	PPBV	100
103)	1,2,4-TRICHLOROBENZENE	21.29	180	153855	9.99	PPBV	100
104)	NAPHTHALENE	21.01	128	305606	9.82	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W50865.D Vial: 4
Acq On : 9 Apr 2015 5:48 am Operator: danat
Sample : ICV2031-10 Inst : MSW
Misc : MS83140,VW2031,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 9 18:12 2015 Quant Results File: MW2031.RES

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES JB94203

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W51045.D Vial: 2
Acq On : 23 Apr 2015 11:13 am Operator: mikel1
Sample : CC2031-10 Inst : MSW
Misc : MS83902,VW2039,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:09:37 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	9.33	128	95737	10.00	PPBV	-0.01
49) 1,4-DIFLUOROBENZENE	11.07	114	414580	10.00	PPBV	-0.01
67) CHLOROBENZENE-D5	15.35	82	183274	10.00	PPBV	-0.01

System Monitoring Compounds

83) 4-BROMOFLUOROBENZENE	16.96	95	218246	10.35	PPBV	-0.01

Spiked Amount 10.000 Range 65 - 128 Recovery = 103.50%

Target Compounds						Qvalue
3) FREON 152A	5.07	65	65985	10.88	PPBV #	88
4) CHLORODIFLUOROMETHANE	5.12	67	21374	7.98	PPBV	100
5) DICHLORODIFLUOROMETHANE	5.21	85	264211	8.65	PPBV	99
6) PROPYLENE	5.14	41	71688	8.53	PPBV	96
7) FREON 114	5.46	85	321561	10.44	PPBV	95
9) CHLOROMETHANE	5.37	52	30921	10.55	PPBV	97
10) VINYL CHLORIDE	5.58	62	131908	11.19	PPBV	99
11) 1,3-BUTADIENE	5.70	54	97052	10.38	PPBV	93
12) n-BUTANE	5.76	58	27151	11.19	PPBV	85
13) BROMOMETHANE	5.96	94	130436	11.63	PPBV	98
14) CHLOROETHANE	6.11	64	73959	11.12	PPBV	90
15) DICHLOROFLUOROMETHANE	6.17	67	250356	9.45	PPBV	99
16) ACROLEIN	6.51	56	43582	8.44	PPBV	99
17) TRICHLOROFLUOROMETHANE	6.77	101	293125	9.71	PPBV	100
18) ISOPROPYL ALCOHOL	6.82	45	159802	8.44	PPBV	97
19) ACETONE	6.63	58	52865	8.99	PPBV #	89
21) ACRYLONITRILE	7.02	53	85636	8.94	PPBV	99
22) PENTANE	7.07	57	36663	9.55	PPBV	96
23) IODOMETHANE	7.29	142	334527	10.21	PPBV	92
24) 1,1-DICHLOROETHYLENE	7.33	96	119367	9.78	PPBV	94
25) CARBON DISULFIDE	7.74	76	337697	10.68	PPBV	96
26) ETHANOL	6.19	45	38597	8.15	PPBV	99
27) ACETONITRILE	6.40	41	75437	8.16	PPBV	98
28) BROMOETHENE	6.42	106	135969	11.79	PPBV #	98
29) METHYLENE CHLORIDE	7.43	84	100827	10.07	PPBV	99
30) 3-CHLOROPROPENE	7.53	76	56214	10.95	PPBV #	86
31) FREON 113	7.64	151	207560	9.41	PPBV	97
32) TRANS-1,2-DICHLOROETHYLENE	8.25	96	120636	9.22	PPBV	99
33) TERTIARY BUTYL ALCOHOL	7.35	59	189181	8.68	PPBV	99
34) METHYL TERTIARY BUTYL ETHE	8.47	73	267461	8.00	PPBV	98
35) TETRAHYDROFURAN	9.83	72	49401	10.02	PPBV	95
36) HEXANE	9.33	57	196020	11.28	PPBV	88
37) VINYL ACETATE	8.52	86	29860	10.10	PPBV #	87
38) 1,1-DICHLOROETHANE	8.43	63	182445	9.97	PPBV	99
39) METHYL ETHYL KETONE	8.77	72	48910	8.85	PPBV	94
40) cis-1,2-DICHLOROETHYLENE	9.16	96	118441	8.75	PPBV	98
41) DI-ISOPROPYL ETHER	9.31	87	93460	9.01	PPBV	97
42) ETHYL ACETATE	9.33	61	33743	10.00	PPBV #	67
43) METHYL ACRYLATE	9.33	55	186414	9.29	PPBV	99
44) CHLOROFORM	9.43	83	203304	8.66	PPBV	99
45) 2,4-DIMETHYLPENTANE	10.13	57	196599	10.31	PPBV	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W51045.D Vial: 2
Acq On : 23 Apr 2015 11:13 am Operator: mikel1
Sample : CC2031-10 Inst : MSW
Misc : MS83902,VW2039,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:09:37 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,1,1-TRICHLOROETHANE	10.35	97	192523	7.86	PPBV		100
47)	CARBON TETRACHLORIDE	10.91	117	215982	7.81	PPBV		100
48)	1,2-DICHLOROETHANE	10.11	62	113030	8.03	PPBV		98
50)	BENZENE	10.78	78	354354	9.72	PPBV		99
51)	CYCLOHEXANE	11.03	84	169492	9.63	PPBV		98
52)	2,3-DIMETHYLPENTANE	11.21	71	79430	10.23	PPBV		99
53)	TRICHLOROETHYLENE	11.75	95	152606	9.42	PPBV		99
54)	DIBROMOMETHANE	11.52	174	166295	8.75	PPBV		100
55)	1,2-DICHLOROPROPANE	11.53	63	123556	10.63	PPBV		92
56)	ETHYL ACRYLATE	11.48	55	197473	8.72	PPBV		99
57)	BROMODICHLOROMETHANE	11.72	83	226714	8.80	PPBV		100
58)	2,2,4-TRIMETHYLPENTANE	11.76	57	554747	10.15	PPBV		99
59)	1,4-DIOXANE	11.76	88	70700	8.78	PPBV		93
60)	METHYL METHACRYLATE	11.90	69	113545	9.40	PPBV		92
61)	HEPTANE	11.99	43	183356	9.53	PPBV		97
62)	METHYL ISOBUTYL KETONE	12.59	43	171943	8.22	PPBV		97
63)	cis-1,3-DICHLOROPROPENE	12.56	75	192856	9.63	PPBV		89
64)	TOLUENE	13.54	92	258267	9.61	PPBV		99
65)	trans-1,3-DICHLOROPROPENE	13.07	75	159648	8.76	PPBV		94
66)	1,1,2-TRICHLOROETHANE	13.26	83	111954	10.06	PPBV		98
68)	ETHYL METHACRYLATE	13.75	69	166178	9.09	PPBV		97
69)	2-HEXANONE	13.77	58	101429	9.37	PPBV		92
70)	TETRACHLOROETHYLENE	14.69	164	193320	9.26	PPBV		97
71)	DIBROMOCHLOROMETHANE	13.99	129	251166	9.25	PPBV		100
72)	1,2-DIBROMOETHANE	14.24	107	206586	9.51	PPBV		100
73)	OCTANE	14.48	43	252424	10.10	PPBV		98
74)	1,1,1,2-TETRACHLOROETHANE	15.38	131	182410	9.14	PPBV		89
75)	CHLOROBENZENE	15.40	112	349957	9.60	PPBV		100
76)	ETHYLBENZENE	15.78	91	508416	9.49	PPBV		100
77)	m,p-XYLENE	15.97	106	435678	19.29	PPBV		99
78)	o-XYLENE	16.47	106	204110	9.89	PPBV		97
79)	STYRENE	16.36	104	326942	9.85	PPBV		99
80)	1,2,3-TRICHLOROPROPANE	16.61	75	191980	8.95	PPBV		96
81)	NONANE	16.65	43	266064	10.50	PPBV		98
82)	BROMOFORM	16.09	173	259814	9.35	PPBV		99
84)	1,1,2,2-TETRACHLOROETHANE	16.47	83	279231	9.85	PPBV		99
85)	ISOPROPYLBENZENE	17.09	105	586509	9.16	PPBV		99
86)	BROMOBENZENE	17.22	156	191767	9.09	PPBV		97
87)	2-CHLOROTOLUENE	17.62	126	144741	9.50	PPBV	#	88
88)	n-PROPYLBENZENE	17.64	120	163264	9.64	PPBV		97
89)	4-ETHYLTOLUENE	17.79	105	507911	9.19	PPBV		100
90)	1,3,5-TRIMETHYLBENZENE	17.87	105	479444	9.04	PPBV		100
91)	ALPHA-METHYLSTYRENE	18.05	118	224326	9.57	PPBV		99
92)	TERT-BUTYLBENZENE	18.32	134	118230	9.26	PPBV		96
93)	1,2,4-TRIMETHYLBENZENE	18.33	105	442557	9.04	PPBV		99
94)	m-DICHLOROBENZENE	18.51	146	286237	9.12	PPBV		99
95)	BENZYL CHLORIDE	18.49	91	304766	9.21	PPBV		99
96)	p-DICHLOROBENZENE	18.58	146	292640	9.09	PPBV		99
97)	SEC-BUTYLBENZENE	18.62	134	141738	9.17	PPBV		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W51045.D Vial: 2
Acq On : 23 Apr 2015 11:13 am Operator: mikel1
Sample : CC2031-10 Inst : MSW
Misc : MS83902,VW2039,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:09:37 2015 Quant Results File: MW2031.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration
DataAcq Meth : TO15W

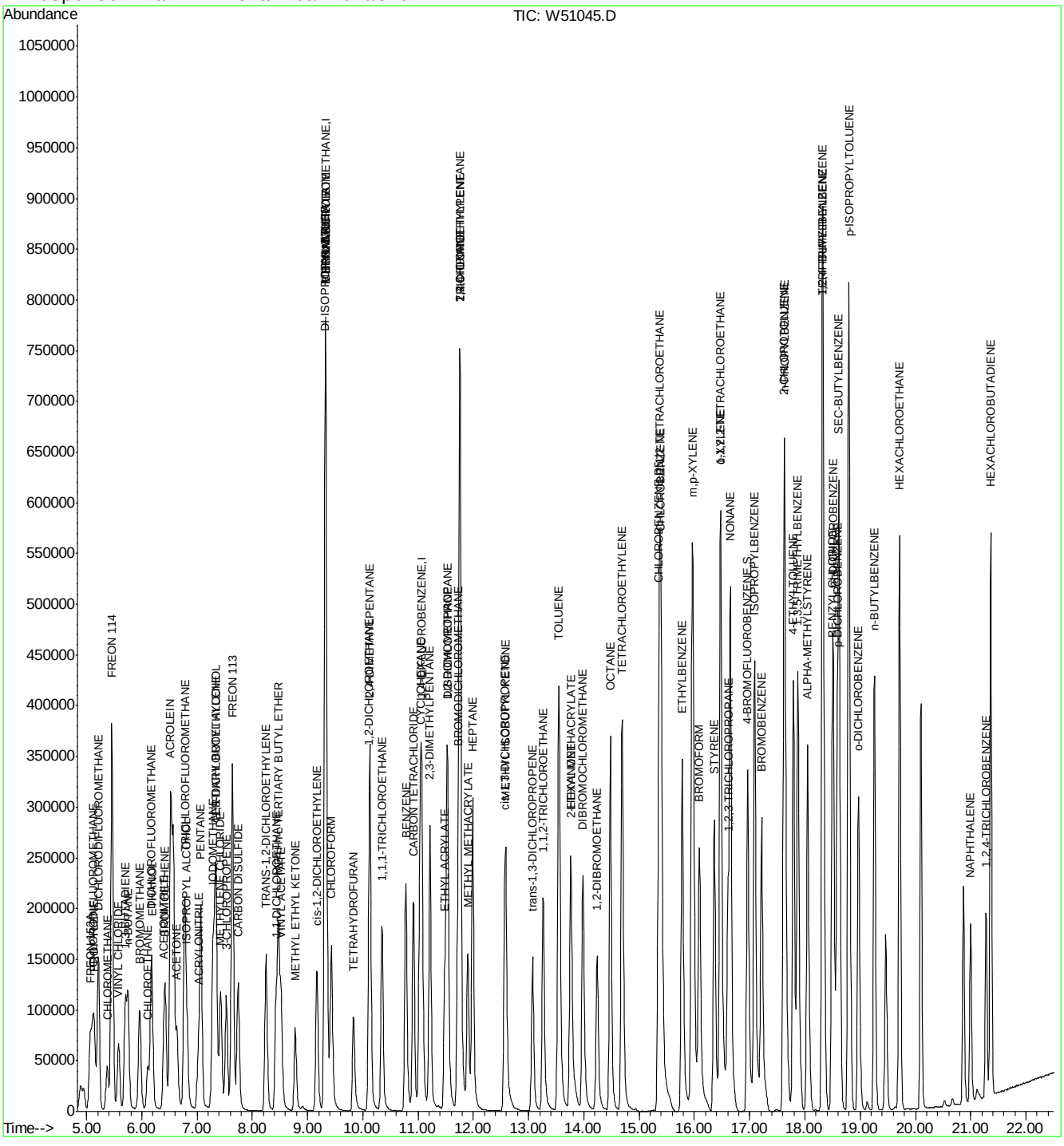
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	p-ISOPROPYLTOLUENE	18.79	134	145833	9.24	PPBV	97
99)	o-DICHLOROBENZENE	18.97	146	261433	8.84	PPBV	99
100)	n-BUTYLBENZENE	19.26	134	120986	9.20	PPBV	93
101)	HEXACHLOROETHANE	19.72	201	196606	9.25	PPBV	100
102)	HEXACHLOROBUTADIENE	21.36	225	181098	8.30	PPBV	99
103)	1,2,4-TRICHLOROBENZENE	21.28	180	101051	8.17	PPBV	99
104)	NAPHTHALENE	21.00	128	210685	8.43	PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W51045.D Vial: 2
Acq On : 23 Apr 2015 11:13 am Operator: mikel1
Sample : CC2031-10 Inst : MSW
Misc : MS83902,VW2039,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 24 11:32 2015 Quant Results File: MW2031.RES

Method : C:\MSDCHEM\1\METHODS\MW2031.M (RTE Integrator)
Title : TO15 by GCMS w/Rtx-1, 60m X 0.32mm ID X 1.0 um
Last Update : Thu Apr 09 18:09:30 2015
Response via : Initial Calibration



TO-14/TO-15

ACCUTEST

Date: 4/14/15

Batch ID: V3W1782

Analyst Signature: [illegible]

Columns: RTX-160MX0.32mm

Method: 3WTO15.M

Seq. File: 3W041415.S

Initial Cal. Method: M3W1775

AS Data

Method: TO15.MPT

Standard Data

Lot #	Description	Conc.
AS 6469	TO15 IS/Surr	100ppbv

Standard Data

Lot #	Description	Conc.
AS 6483	TO15LCS	40ppbv
AS 6484	TO15STD	40ppbv
AS 6485	TO15STD	1.0ppbv
AS 6486	TO15STD	0.4ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 4/15/15

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
5	~~3W4969~~ YH	BFB		A962	100					NG	3W46958
2	3W46959	CC1775-10		A971	100					NG	
2	3W46960	CC1775-10		A971	100					NG	
5	3W46961	BFB		A962	100					NG	
2	3W46962	CC1775-10		A971	100					NG	
2	3W46963	CC1775-10		A971	100					NG	
5	3W46964	IB		A962	100					notused	
5	3W46965	IB		A962	100					notused	
5	3W46966	BFB		A962	100					OK	
1	3W46967	ICC1782-10		A973	100			✓	✓	OK	
1	3W46968	IC1782-5		A973	50			✓	✓	OK	
2	3W46969	IC1782-0.5		A969	200			✓	✓	OK	
2	3W46970	IC1782-0.2		A969	80			✓	✓	OK	
1	3W46971	IC1782-20		A973	200			✓	✓	OK	
1	3W46972	IC1782-15		A973	150			✓	✓	OK	
5	3W46973	~~IC~~ YH IB		A962	100			✓	✓	—	
3	3W46974	IC1782-0.1		A966	100			✓	✓	OK	
3	3W46975	IC1782-0.04		A966	40			✓	✓	OK	
1	3W46976	IC1782-30		A973	300			✓	✓	OK	
5	3W46977	IB		A962	100			✓	✓	—	
1	3W46978	IC1782-40		A973	400			✓	✓	OK	
5	3W46979	IB		A962	100			✓	✓	—	
4	3W46980	ICV1782-10		A975	100			✓	✓	OK	
					YH						

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

Form: AT008-05

Rev. Date: 10/20/09

TO-14/TO-15

ACCUTEST

Batch ID: V3W1792

Date: 4/27/15

Analyst Signature: [illegible]

Columns: RTX-1 60M X0.32mm

Method: 3W TO15.M

Seq. File: 3W150427.S

Initial Cal. Method: M3W1782

AS Data

Method: TO15.MPT

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS6484	TO15STD	40ppbv
AS 6483	TO15LCS	40ppbv
AS 6469	IS/SURR	100ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 4/28/15

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
1	3W47220	BFB		open position	400					on	
2	3W47221	CC1782-10		A971	100					not used	
2	3W47222	CC1782-10		A971	100			✓	✓	on	
3	3W47223	BS		A977	100			✓	✓	RR	carryover
3	3W47224	BS		A977	100			✓	✓	on	
3	3W47225	BSD		A977	100			✓	✓	OK	
4	3W47226	IB		A962	100			✓	✓	—	
4	3W47227	MB		A962	400			✓	✓	on	
5	3W47228	JB93155-6	STD	A868	100	1.30		✓	✓	on	don't report
6	3W47229	JB93291-6	STD	A612	25	1.25		✓	✓	OK	
7	3W47230	JB93291-7	↓	A591	25	2.40		✓	✓	on	
8	3W47231	SCC		A534	400	1		✓	✓	RR	possible Cl6
9	3W47232	JB93155-5	STD	A1000	620	1.55		✓	✓	on	RR20ml
10	3W47233	JB93155-6	↓	A868	~~100~~ 400	1.30		✓	✓	on	520ml
11	3W47234	JB93291-8CF	STD	A583, A439	200	46		↑	↓	on	
12	3W47235	JB93291-9	↓	A393	25	1.30		✓	✓	on	
13	3W47236	JB93291-10CF	↓	A573	20	1		✓	✓	on	
14	3W47237	JB93105-1	STD+GC	A1020, A455	50	1,300		↑	✓	on	RR100,000X
15	3W47238	JB93105-2	↓	A656, A184	100	286		↑	↓	on	RR5,000X
15	3W47239	JB93105-2Dup	↓	A656, A184	100	286		↑	↓	on	
16	3W47240	SCC		A259	400	1		✓	✓	on	
1	3W47241	JB92987-1	NYSVLL	A1055	592	1.48		✓	✓	on	compound list revised
2	3W47242	JB92987-2	↓	A349	400	1		✓	✓	on	4/27/15
3	3W47243	JB92987-3	↓	A1177	632	1.58		✓	✓	on	↓
4	3W47244	JB92987-4	↓	A1086	400	1		✓	✓	OK	↓
5	3W47245	JB92987-6	↓	A629	400	1		✓	✓	on	↓
6	3W47246	JB92987-7	↓	A467	400	1		✓	✓	on	↓
7	3W47247	JB92987-8	↓	A635	400	1		✓	✓	on	↓
8	3W47248	JB92987-9	↓	A218	400	1		✓	✓	on	↓
9	3W47249	JB92987-10	↓	A987	400	1		✓	✓	on	↓

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error, # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

Form: AT008-05

Rev. Date: 10/20/09

Laboratories

Canister Secondary Dilution Log

			Original Canister Dilution				Secondary Canister Dilution						
Date	Initials	Accutest Sample ID	Canister ID	Vacuum in "Hg at time of Dilution	Final Pressure psig	Dilution Factor	Canister ID	Canister Volume CC	Sample Volume Added CC	Final Pressure psig	Equiv Total Volume CC	Dilution Factor	Final Canister Dilution Factor
4/27/15	YH	JB93155-6	A868	5.0	1.2	1.30							
↑	↑	JB93291-6	A612	4.0	1.2	1.25							
		↓ -7	A591	5.0	14.7	2.40							
		JB93155-5	A1000	9.0	1.2	1.55							
		JB93291-9	A393	5.0	1.2	1.30							
		JB93105-1	A1020	5.0	1.2	1.30	A455	6000	10	9.8	10,000	1.000	1.300
↓	↓	↓ -2	A656	7.0	1.3	1.43	A184	6000	50	9.8	10,000	200	286

Definition:

Final DF = (Original Canister DF) x (Secondary Canister DF)

Dilution Factor at Instrument = (Final Canister Dilution Factor) x (Normal Sampling Volume in cc) / (Sample Volume in cc Injected)

Example:

Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig or 750cc equiv volume. This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20(from canister dilution) x 20(from instrument dilution) = 400

Notes:

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error; # 3 = Computer Miscalclulation, # 4 = Analyst's Correction Error

Form: AT003-03
Rev. Date: 6/13/06

TO-14/TO-15

ACCUTEST

Batch ID: V5W419

Analyst Signature: [illegible]

Date: 4/2/15

Columns: RTX-1 60m x 0.32

Method: 5WTO15.M

Seq. File: 150402.S

Initial Cal. Method: M5W419

AS Data

Method: TO15.CTO

Standard Data

Lot #	Description	Conc.
As6474	TO15 LCS	40 ppbv

Standard Data

Lot #	Description	Conc.
As6470	Int STD/Surr	100 ppbv
As6471	TO15 STD	40 ppbv
As6472	TO15 STD	1.0 ppbv
As6473	TO15 STD	0.4 ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: YH Date: 4/2/15

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
ML 5 ~~1~~	5W10667	BFB		open position	400					ok	
1	5W10668	IC419-0.04		A966	40			✓	✓	ok	
1	5W10669	IC419-0.1		A966	100			✓	✓	ok	
2	5W10670	IC419-0.2		A969	80			✓	✓	ok	
2	5W10671	IC419-0.5		A969	200			✓	✓	ok	
3	5W10672	IC419-5		A981	50			✓	✓	ok	
3	5W10673	IC419-10		A981	100			✓	✓	ok	
3	5W10674	IC419-20		A981	200			✓	✓	ok	
3	5W10675	IC419-30		A981	300			✓	✓	ok	
ML 4/2 5 ~~1~~	5W10676	IB		A963	400			✓	✓	reused	
3	5W10677	IC419-40		A981	400			✓	✓	ok	
ML 4/2 5 ~~1~~	5W10678	IB		A963	400			✓	✓	reused	
4	5W10679	ICV419-10		A965	100			✓	✓	ok	
	~~5W10680~~										

ML 4/2

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error; # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

Form: AT008-05

Rev. Date: 10/20/09

TO-14/TO-15

ACCUTEST

Batch ID: ML 5/8 ~~V5W448~~ V5W449

Analyst Signature: Michael [illegible]

Date: 5/8/15

Columns: RTX-1 60m x 0.32mm x 1.0µm
Method: 5WT015.M
Seq. File: 150508.5
Initial Cal. Method: M5W419

AS Data

Method: T015.CTO

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS6501	ML 5/8 ~~IAT STD/SURR~~ T015 STD	100 ppbv
AS6502	ML 5/8 ~~#2~~ T015 ~~STD~~ LCS	40 ppbv
AS6503	ML 5/8 ~~#2~~ ~~T015 LCS~~ IS/SURR	40 ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 5/12/15

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int./STD Areas	Surr	Status Data	Comments
1	5W11425	BFB		open position	400					ok	
2	5W11426	CC419-10		A973	100			✓	✓	ok	
3	5W11427	BS		A975	100			✓	✓	ok	
3	5W11428	BSD		A975	100			✓	✓	ok	
4	5W11429	IB		A963	400					not used	
4	5W11430	MB		A963	400			✓	✓	ok	
5	5W11431	JB94210-1	STD	A1196	400	1		✓	✓	ok/OL	RR 20mL
6	5W11432	JB94210-2	✓	A885	400	1		✓	✓	ok/OL	RR 40mL
7	5W11433	JB94210-3	✓	A1113	400	1		✓	✓	ok/OL	RR 70mL - on BW.com
8	5W11434	JB94210-4	✓	A233	400	1		✓	✓	ok/OL	RR 100mL - on W.com
5	~~5W11435~~	JB94210-1	✓	A1196	20	1.48		✓	✓	ok	5W11435
6	~~5W11436~~ ML 5/8	JB94210-2	✓	A885	40	1		✓	✓	OK	5W11436
9	~~5W11437~~ ML 5/8 #2	JB94203-1 ~~JB94210-3~~ ML 5/8	✓	A827 ~~A1113~~ ML 5/8	100 ~~40~~ ML 5/8	1		✓	✓	ok	5W11437
9	~~5W11438~~ ML	JB94203-1DUP	✓	A827	100	1		✓	✓	ok	5W11438 RR 50mL
10	~~5W11439~~ ML	JB94203-2	✓	A089	100	1		✓	✓	ok/OL	5W11439 RR 50mL
11	~~5W11440~~ ML	JB94203-3	✓	A1021	100	1		✓	✓	ok/OL	5W11440 RR 20mL
12	~~5W11441~~ ML	JB94203-4	✓	A463	100	1		✓	✓	ok/OL	5W11441 RR 10mL
13	~~5W11442~~ ML	JB94203-5	✓	A647	50	1		✓	✓	ok/OL	5W11442 RR 20mL
14	~~5W11443~~ ML	JB94080-1	✓	A1221	20	1.35		✓	✓	ok	5W11443
15	~~5W11444~~ ML	JB94079-1	STD+CC	A1061, A873, A583	200	50,000		✓	✓	ok	5W11444
16	~~5W11445~~ ML	JB94079-2	✓	A1080	20	1.38		✓	✓	RR	5W11445 RR 200%
1	~~5W11446~~ ML	SCC		A504	400			✓	✓	RR	5W11446 RR possible carry
2	~~5W11447~~ ML	JB94194-1		A1191	155	1.55		✓	✓		5W11447
3	~~5W11448~~ ML	JB94194-2		A219	100	1		✓	✓		5W11448
4	~~5W11449~~ ML	JB94194-3		A1182	100	1		✓	✓		5W11449
5	~~5W11450~~ ML	JB94194-4		A893	100	1		✓	✓		5W11450
6	~~5W11451~~ ML	JB94194-5		A766	100	1		✓	✓		5W11451
7	~~5W11452~~ ML	JB94194-6		A638	100	1		✓	✓		5W11452
8	~~5W11453~~ ML	JB94194-7		A748	100	1		✓	✓		5W11453

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

Form: AT008-05
Rev. Date: 10/20/09

ACCUTEST Laboratories

Canister Secondary Dilution Log

			Original Canister Dilution				Secondary Canister Dilution						
Date	Initials	Accutest Sample ID	Canister ID	Vacuum in "Hg at time of Dilution	Final Pressure psig	Dilution Factor	Canister ID	Canister Volume CC	Sample Volume Added CC	Final Pressure psig	Equiv Total Volume CC	Dilution Factor	Final Canister Dilution Factor
5/8/15	ML	JB94210-1	A1196	8.0	1.2	1.48							1.48
	ML	JB94079-1	A1061, A873	0	0	1250	A583	1000	50	14.7	2000	40	50,000

Definition:

Final DF = (Original Canister DF) x (Secondary Canister DF)

Dilution Factor at Instrument = (Final Canister Dilution Factor) x (Normal Sampling Volume in cc) / (Sample Volume in cc Injected)

Example:

Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig or 750cc equiv volume. This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20(from canister dilution) x 20(from instrument dilution) = 400

Notes:

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error; # 3 = Computer Miscalclulation, # 4 = Analyst's Correction Error

189

Form: AT003-03
Rev. Date: 6/13/06

TO-14/TO-15

ACCUTEST

Batch ID: V5W450

Analyst Signature: [signature]

Date: 5/9/15

Columns: RTX-1 60mx0.32mm x1.0µm
Method: SCTO15.M
Seq. File: 150509.5
Initial Cal. Method: M5W419

AS Data

Method: TO15.CTD

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS6501	TO15 STD	40ppbv
ML 5/9 ~~AS6502~~		
AS6503	Int STD/Surr	100ppbv
AS6502	TO15 LCS	40ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 5/12/15

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
1	5W11454	BFD		open position	400					ok	
2	5W11455	CC419-10		A973	100					not used	Fail ↑
2	5W11456	CC419-10		A973	100			✓	✓	ok	
3	5W11457	BS		A975	100			✓	✓	ok	
3	5W11458	BSD		A975	100			✓	✓	ok	
4	5W11459	IB		A963	400						
4	5W11460	MB		A963	400			✓	✓	ok	
5	5W11461	JB94307-4	STD	A423, A1220	200	45.2		✓	✓	ok/OL	RR10mL; for low pollts
6	5W11462	JB94307-5	✓	A615, A1248	200	115		✓	✓	ok/OL	RR 100mL
7	5W11463	JB94307-7	✓	A786	20	1.33		✓	✓	ok/OL	RR 100x
8	5W11464	JB94307-9	✓	A1152	50	1		✓	✓	ok/OL	ML 5/9 RR ~~20mL~~ 10mL
9	5W11465	JB94307-11	✓	A558	10	1.18		✓	✓	OK	RR 50mL; too dilute
10	5W11466	JB94307-10	✓	A565	10	1.25		✓	✓	OK	
6 ML 5/9 ~~8~~	5W11467	JB94307-5	✓	A615, A1248	100	115		✓	✓	OK	
7	5W11468	JB94307-7	✓	A786, A614	200	53.2		✓	✓	OK	
11	5W11469	JB94245-1	SL	A745	100	1		✓	✓	ok	
11	5W11470	JB94245-1DUP	✓	A745	100	1		✓	✓	ok	
12	5W11471	JB94203-2	STD	A089	50	1		✓	✓	ok	RR 20mL
13	5W11472	JB94203-3	✓	A1021	20	1.33		✓	✓	ok	
14	5W11473	JB94203-4	✓	A463	10	1.45		✓	✓	ok	
15	5W11474	JB94203-5	✓	A1048	20	1.10		✓	✓	RR	Valve closed
16	5W11475	SCC		A504	400			✓	✓	ok	
8	5W11476	JB94307-9	STD	A1152	10	1.30		✓	✓	RR	data not match
9	5W11477	JB94307-11	✓	A558	50	1.18		✓	✓	OK	
											ML 5/12

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Form: AT008-05
Rev. Date: 10/20/09

Accutest Laboratories

Canister Secondary Dilution Log

			Original Canister Dilution				Secondary Canister Dilution						
Date	Initials	Accutest Sample ID	Canister ID	Vacuum in "Hg at time of Dilution	Final Pressure psig	Dilution Factor	Canister ID	Canister Volume CC	Sample Volume Added CC	Final Pressure psig	Equiv Total Volume CC	Dilution Factor	Final Canister Dilution Factor
5/9/15	ML	JB94307-4	A423	1.5	1.6	1.13	A1220	1000	50	14.7	2000	40	45.2
5/9/15	ML	JB94307-5	A615	2.0	1.1	1.15	A1248	1000	20	14.7	2000	100	115
5/9/15	ML	JB94307-7	A786	2.5	3.2	1.33							1.73
5/9/15	ML	JB94307-7	A786	2.5	3.2	1.33	A614	1000	50	14.7	2000	40	53.2
5/9/15	ML	JB94203-3	A1021	5.5	1.2	1.33							1.33
5/9/15	ML	JB94203-4	A463	2.5	1.3	1.45							1.45
5/9/15	ML	ML 5/9 ~~JB94203-5~~											
5/9/15	ML	JB94307-9	A452	5.0	1.2	1.30							1.30

Definition:

Final DF = (Original Canister DF) x (Secondary Canister DF)

Dilution Factor at Instrument = (Final Canister Dilution Factor) x (Normal Sampling Volume in cc) / (Sample Volume in cc Injected)

Example:

Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig or 750cc equiv volume. This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20(from canister dilution) x 20(from instrument dilution) = 400

Notes:

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error; # 3 = Computer Miscalclulation, # 4 = Analyst's Correction Error

188

Form: AT003-03
Rev. Date: 6/13/06

TO-14/TO-15

ACCUTEST

Batch ID: V5W451

Date: 5/11/15

Analyst Signature: [illegible]

Columns: RTX-1 60M X0.32mm

Method: SW TO15.M

Seq. File: 150511.S

Initial Cal. Method: M5W419

AS Data

Method: TO15.CTO

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS6501	TO15STD	40ppbv
AS6502	TO15LCS	40ppbv
AS6503	IS/Surr	100ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 5/12/15

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
1	5W11478	~~CC~~ BFB		open Rm Atm	400					ok	
2	5W11479	CC 419-10		A973	100			✓	✓	ok	
3	5W11480	BS		A975	100			✓	✓	ok	
3	5W11481	BSD		A975	100			✓	✓	ok	
4	5W11482	IB		A963	100					not used	
4	5W11483	MB		A963	400			✓	✓	ok	5W11484
5	~~5W11484~~ YM	JB94307-9	STD	A1152	10	1.30		✓	✓	ok	
6	5W11485	JB94388-1	STD	A413	20	1		✓	✓	ok/DL	RR100ml
7	5W11486	JB94388-2	↓	A1115	20	1		✓	✓	ok	
8	5W11487	JB94388-3	↓	A1203	20	1		✓	✓	ok/DL	RR100ml
9	5W11488	JB94388-4	↓	A1246	20	1		✓	✓	ok	
9	5W11489	JB94388-4Dup	STD	A1246	20	1		✓	✓	ok	
10	5W11490	JB94388-1	↓	A413	100	1		✓	✓	ok	
11	5W11491	JB94388-3	↓	A1208	100	1		✓	✓	ok	
12	5W11492	JB94203-5	STD	A647	20	1		✓	✓	ok	
13	5W11493	SCC		A1204	400	1		✓	✓	ok	
14	5W11494	JB94079-2	STD+GC	A1080, A799	100	138		✓	✓	ok	
14	5W11495	JB94079-2	↓	A1080, A799	10	138		✓	✓	ok/DL	RR10,000x
15	5W11496	TCLP lab		A057	20	2.86		✓	✓	ok	
16	5W11497	JB94194-8		A1166	100	1		✓	✓	ok	
1	5W11498	JB94254-1	STD	A1053	20	1		✓	✓	ok/DL	RR10ml
2	5W11499	JB94254-2	↓	A183	20	1		✓	✓	ok/DL	RR10ml
3	5W11500	JB94254-3	↓	A1093	20	1		✓	✓	ok/DL	RR10ml
4	5W11501	SCC		A696	400	1		✓	✓	ML 5/12 RR	RR possible PCE c/o
5	5W11502	JB93739-1	STD	A440	20	1.43		✓	✓	ok	
6	5W11503	JB93739-3	↓	A693	50	1.48		✓	✓	ok	
											ML 5/12

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

Form: AT008-05

Rev. Date: 10/20/09

ACCUTEST Laboratories

Canister Secondary Dilution Log

			Original Canister Dilution				Secondary Canister Dilution						
Date	Initials	Accutest Sample ID	Canister ID	Vacuum in "Hg at time of Dilution	Final Pressure psig	Dilution Factor	Canister ID	Canister Volume CC	Sample Volume Added CC	Final Pressure psig	Equiv Total Volume CC	Dilution Factor	Final Canister Dilution Factor
5/11/15	YH	TCIPlab	A057	9	14.7	2.86							
		JB93739-1	A440	7	1.3	1.43							
		↓ -3	A693	8	1.2	1.48							

Definition:

Final DF = (Original Canister DF) x (Secondary Canister DF)

Dilution Factor at Instrument = (Final Canister Dilution Factor) x (Normal Sampling Volume in cc) / (Sample Volume in cc Injected)

Example:

Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig or 750cc equiv volume. This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20(from canister dilution) x 20(from instrument dilution) = 400

Notes:

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error; # 3 = Computer Miscalclulation, # 4 = Analyst's Correction Error

Form: AT003-03
Rev. Date: 6/13/06

TO-14/TO-15

ACCUTEST

Batch ID: V5W452

Analyst Signature: [signature]

Date: 5/12/15

Columns: RTX-1 60m x 0.32mm x 1.0µm
Method: SW TO15.M
Seq. File: 150512.S
Initial Cal. Method: MSW419

AS Data

Method: TO15.CTO

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
As 6501	TO15 STD	40 ppbv
As 6502	TO15 LCS	40 ppbv
As 6503	Int STD/Surr	100 ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: YH Date: 5/14/15

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
1	SW11504	BFB		open position	400					ok	
2	SW11505	CC419-10		A973	100					RR	wrong canister Label
2	SW11506	CC419-10		A973	100			✓	✓	ok	
3	SW11507	BS		A975	100			✓	✓	ok	
3	SW11508	BSD		A975	100			✓	✓	ok	
4	SW11509	IB		A963	400					not used	
4	SW11510	MB		A963	400			✓	✓	ok	
5	SW11511	SCC		A696 ~~A967~~ ML 5/12	400			✓	✓	ok	
6	SW11512	JB94453-1	STD	A1110	400	1		✓	✓	ok	
6	SW11513	JB94453-1 DUP	✓	A1110	400	1		✓	✓	ok	
7	SW11514	JB94079-2	STD+GC	A1050, A799	.5	138		✓	✓	ok	
8	SW11515	JB94254-1	STD	A1053	10	1.23		✓	✓	ok	
9	SW11516	JB94254-2	✓	A183	10	1.30		✓	✓	ok	
10	SW11517	JB94254-3	✓	A1093	10	1.25		✓	✓	ok	
11	SW11518	JB94203-2	✓	A089	20	1.48		✓	✓	ok	
12	SW11519	JB94315-1	PADFTMB MTBE	A1142	20	1.23		✓	✓	ok/DL	RR 10mL
13	SW11520	JB94315-2	✓	A1127	20	1.23		✓	✓	ok/DL	RR 50x
14	SW11521	JB94315-3	✓	A412	20	1.30		✓	✓	ok/DL	RR 10mL
15	SW11522	JB94315-4	✓	A578, A717	200	52		✓	✓	ok/DL	RR 100mL
16	SW11523	JB94317-~~2~~ 4 ML 5/12	✓	A408	20	1.23		✓	✓	ok/DL	RR 10mL
1	SW11524	JB94317-3	✓	A685	20	1.35		✓	✓	ok	RR 50x
2	SW11525	JB94317-2	✓	A607, A726	100	52		✓	✓	ok	
3	SW11526	JB94317-1	✓	A680	100	1		✓	✓	RR	RR possible carryover from B
4	SW11527	SCC		A426	400			✓	✓	ok	
											ML 5/13

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

Form: AT008-05
Rev. Date: 10/20/09

ACCUTEST Laboratories

Canister Secondary Dilution Log

			Original Canister Dilution				Secondary Canister Dilution						
Date	Initials	Accutest Sample ID	Canister ID	Vacuum in "Hg at time of Dilution	Final Pressure psig	Dilution Factor	Canister ID	Canister Volume CC	Sample Volume Added CC	Final Pressure psig	Equiv Total Volume CC	Dilution Factor	Final Canister Dilution Factor
5/12/15	ML	JB94254-3	A1693	4.0	1.2	1.25							1.25
5/12/15	ML	JB94254-2	A183	5.0	1.2	1.30							ML 5/12 ~~1.33~~ 1.30
5/12/15	ML	JB94254-1	A1653	3.5	1.2	1.23							1.23
		JB94315-4	A578	5.0	1.2	1.30	A717	1000	50	14.7	2000	40	52
		JB94203-2	A089	8.0	1.2	1.48							1.48
		JB94315-1	A1142	3.5	1.2	1.23							
		JB94315-2	A1127	3.5	1.2	1.23							
		JB94315-3	A412	5.0	1.2	1.30							
		JB94317-2	A607	5.0	1.2	1.30	A720	1000	50	14.7	2000	40	52
		JB94317-3	A685	6.0	1.2	1.35							
		JB94317-4	A408	3.5	1.2	1.23							

Definition:

Final DF = (Original Canister DF) x (Secondary Canister DF)

Dilution Factor at Instrument = (Final Canister Dilution Factor) x (Normal Sampling Volume in cc) / (Sample Volume in cc Injected)

Example:

Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig or 750cc equiv volume. This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20(from canister dilution) x 20(from instrument dilution) = 400

Notes:

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192

Form: AT003-03
Rev. Date: 6/13/06

TO-14/TO-15

ACCUTEST

Batch ID: VW2031

Date: 4/8/15

Analyst Signature: [illegible]

Columns: RTX-160MX0.32mm
Method: TO15W.M
Seq. File: W150408.S
Initial Cal. Method: MW2031

AS Data

Method: TO15.MPT

Standard Data

Lot #	Description	Conc.
AS 6468	IS/Surr	100ppbv

Standard Data

Lot #	Description	Conc.
AS6479	TO15STD	40ppbv
AS6480	4/8 YH ~~TO15LCS~~ TO15STD	1.0ppbv
AS6481	TO15 STD	0.4ppbv
AS6482	TO15LCS	40ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 4/10/15

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
5	W50840	BFB		A959	400					NO	
2	W50841	CC2026-10		A978	100						
2	W50842	CC2026-10		A978	100						
5	W50843	BFB		A959	400						
2	W50844	CC2026-10		A978	100						
2	W50845	CC2026-10		A978	100						
2	W50846	CC2026-10		A978	100						
5	W50847	IB		A959	100					not used	
5	W50848	IB		A959	100					not used	
5	W50849	IB		A959	100					not used	
5	W50850	IB		A959	100					not used	
5	W50851	BFB		A959	100					OK	
1	W50852	ICC2031-10		A964	100			✓	✓	OK	
1	W50853	IC2031-5		A964	50			✓	✓	OK	
2	W50854	IC2031-0.5		A980	200			✓	✓	OK	
2	W50855	IC2031-0.2		A980	80			✓	✓	OK	
1	W50856	IC2031-20		A964	200			✓	✓	OK	
1	W50857	IC2031-15		A964	150			✓	✓	OK	
5	W50858	IB		A959	100			✓	✓	—	
3	W50859	IC2031-0.1		A974	100			✓	✓	OK	
3	W50860	IC2031-0.04		A974	40			✓	✓	OK	
1	W50861	IC2031-30		A964	300			✓	✓	OK	
5	W50862	IB		A959	100			✓	✓	~~FA~~ YH	
1	W50863	IC2031-40		A964	400			✓	✓	OK	
5	W50864	IB		A959	100			✓	✓	—	
4	W50865	ICV2031-10		A970	100			✓	✓	OK	
					YH						

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Form: AT008-05
Rev. Date: 10/20/09

159

7.8.8

7

TO-14/TO-15

ACCUTEST

Batch ID: VW2039

Date: YH ~~4/23/15~~ 4/23/15

Analyst Signature: [illegible]

Columns: RTX-160MXD.32mm

Method: TO15WIM

Seq. File: W150423.S

Initial Cal. Method: MW2031

AS Data

Method: TO15.MPT

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS6479	TO15STD	40ppbv
AS6482	TO15LCS	40ppbv
AS6468	IS/SURR	100ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 4/24/15

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
1	W51040	BFB		openposition	400					notused	
2	W51041	CC2031-10		A978	100					↓	
3	W51042	BS		A970	100						
3	W51043	BSD		A970	100					↓	
1	W51044	BFB		openposition	400					ok	
2	W51045	CC2031-10		A978	100			✓	✓	ok	
3	W51046	BS		A970	100			✓	✓	ok	
3	W51047	BSD		A970	100			✓	✓	ok	
4	W51048	IB		A959	400			✓	✓	—	
4	W51049	MB		A959	400			✓	✓	ok	
5	W51050	JB92903-2	STD	A720	20	1.30		✓	✓	ok	
6	W51051	JB92903-4	↓	A494	20	2.40		✓	✓	ok	
7	W51052	JB92914-1	STD+GC	A856, A234, A217	200	51,200		✓	✓	ok	
8	W51053	JB92914-2	↓	A664, A441	25	775		✓	✓	ok	
9	W51054	JB92799-17	STD	A1126	20	2.40		✓	✓	ok	
10	W51055	JB92799-18	↓	A722	50	1.35		✓	✓	ok	
11	W51056	SCC		A131	400	1		✓	✓	ok	
12	W51057	JB93068-1	STD	A539	100	1		✓	✓	ok	
12	W51058	JB93068-10up	↓	A539	100	1		✓	✓	ok	
13	W51059	JB93068-2	↓	A694	50	1		✓	✓	M	RR 100X
14	W51060	JB93068-3	↓	A545	50	1		✓	✓	ok	RR 100X
15	W51061	Airlab	SL	A040	400	1		✓	✓	ok	RR 40mL
16	W51062	VOA lab	↓	A041	400	1		✓	✓	ok	ML 4/24 ~~RR 40mL~~
1	W51063	Hallway	↓	A056	400	1		✓	✓	ok	RR 40mL
2	W51064	TCLP lab	↓	A003	592	1.48		✓	✓	ok	
2	W51065	TCLP lab	↓	A003	20	1.48		✓	✓	ok	
3	W51066	Wetchem	↓	A039	400	1		✓	✓	ok	
3	W51067	Wetchem	↓	A039	20	1		✓	✓	ok	
4	W51068	SVOA large	↓	A993	400	1		✓	✓	ok	
4	W51069	SVOA large	↓	A993	20	1		✓	✓	ok	

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Form: AT008-05

Rev. Date: 10/20/09

TO-14/TO-15

ACCUTEST

Date: 4/23/15

Batch ID: VW2039

Analyst Signature: [illegible]

Columns: RTX-160MX0.32mm

Method: T015WM

Seq. File: W150423.S

Initial Cal. Method: MW2031

AS Data

Method: T015.MPT

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see pg 175	

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 4/24/15

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
5	W51070	SVOA Small	SL	A083	400	1		✓	✓	ok	
5	W51071	SVOA Small	↓	A083	20	1		✓	✓	ok	
					YH						

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Form: AT008-05

Rev. Date: 10/20/09

ACCUTEST Laboratories

Canister Secondary Dilution Log

			Original Canister Dilution				Secondary Canister Dilution						
Date	Initials	Accutest Sample ID	Canister ID	Vacuum in "Hg at time of Dilution	Final Pressure psig	Dilution Factor	Canister ID	Canister Volume CC	Sample Volume Added CC	Final Pressure psig	Equiv Total Volume CC	Dilution Factor	Final Canister Dilution Factor
4/23/15	YH	JB92903-2	A720	5.0	1.2	1.30							
↓	↓	↓ -4	A494	5.0	14.7	2.40							
		JB92914-1	A234	14.7	14.7	1.280	A1217	1000	50	14.7	2000	40	51.200
		JB92919-17	A1126	5.0	14.7	2.40							
↓	↓	↓ -18	A722	6.0	1.2	1.35							

Definition:

Final DF = (Original Canister DF) x (Secondary Canister DF)

Dilution Factor at Instrument = (Final Canister Dilution Factor) x (Normal Sampling Volume in cc) / (Sample Volume in cc Injected)

Example:

Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig or 750cc equiv volume. This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20(from canister dilution) x 20(from instrument dilution) = 400

Notes:

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Form: AT003-03
Rev. Date: 6/13/06