Phase II Environmental Site Assessment Report

For:

Sun Valley Nursery Filling Station Site
Block 6000, Lots 79 and 80
136 – 140 Croton Avenue
Ossining, New York 10562

Prepared For:

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1.0 INTRODUCTION

SESI Consulting Engineers (SESI) has conducted this Phase II Environmental Site Assessment (Phase II ESA) report on behalf of Macquesten Development, LLC for the properties located at 136-140 Croton Avenue, Ossining, New York ("Site"). The Site is identified on local tax maps as Block 6000, Lots 79 and 80. The Site is composed of two (2) adjacent parcels, with approximately 0.72 acres. Based on aerial photographs, the Site previously contained structures. However, during this field investigation, only concrete floor slabs were present. The Site is bound to the north by Croton Avenue, beyond which residences and commercial properties are present, to the east by Watson Avenue, beyond which residences and commercial properties are present, to the south by residences, and to the west by Prospect Avenue, beyond which residences are present. **Figure 1.1** presents a topographical Site Location Map and **Figure 1.2** presents a county Tax Map.

This Phase II ESA report summarizes the data of soil, groundwater, soil vapor, and ambient air samples collected by SESI to further investigate the Site. This report complies with the 2015 American Society for Testing and Materials standard (ASTM E1903).

1.1 SITE SETTINGS

The Site consists of two (2) parcels. The area contains building pads, asphalt pavement areas, and unpaved areas where previous greenhouse structures were located. There are no existing structures. The nearest surface water body is Kill Brook to the northwest (approximately 0.25 miles), which discharges into the Hudson River, located approximately one (1) mile west of the Site. Historical uses reportedly included a plant nursery (including greenhouses) and an automotive garage and gasoline filling stations.

1.2 PREVIOUS ENVIRONMENTAL REPORT SUMMARIES

SESI was provided with the following previous environmental reports and documents regarding the Site:

NYSDEC Brownfield Cleanup Program (BCP) Application, prepared by Haley & Aldrich of New York (H&A), dated November 10, 2020

H&A submitted a Brownfield Cleanup Program (BCP) Application for the Site on behalf of Amak Development, LLC pursuant to a Pre-Application Meeting that occurred on August 13, 2020 and

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in response to comments in the Letter of Incompleteness, dated November 3, 2020. The BCP Application references the following two (2) reports prepared for the Site:

- Phase I ESA, prepared by Berkshire Environmental Services & Technology LLC (Berkshire), dated November 30, 2017
- Phase II ESA, prepared by Berkshire, dated November 30, 2017.

SESI did not receive the 2017 Berkshire Phase I and Phase II ESA reports for review; however, the report findings were summarized in the H&A BCP Application.

The environmental history for the Site was summarized by H&A as follows:

> *"From the Phase I and Phase II reports completed by Berkshire, it was found that the Site was undeveloped land prior to the construction of the Site buildings in the 1940s and 1950s. Two (2) buildings were constructed with Building #1 used as a retail gasoline station and automotive repair garage until 1981 and building #2 serving the same purpose until 1996. USTs were historically located on both Site parcels. Four (4) 10,000-gallon gasoline USTs on the western side of 136 Croton Ave were removed in 1981 and were confirmed to be leaking. Additionally, there were three (3) gasoline USTs of unknown size historically located on the northern side of the 138-140 Croton Avenue parcel, which appear to have also been removed. There was also a former presence of an inground hydraulic lift in the 136 Croton Avenue parcel and the remains of an inground hydraulic lift inside the building on the 138-140 Croton Avenue parcel. After serving as the gasoline service station and automotive repair garage, the Site operated as a nursery until 2017, and now the Site remains vacant. Two greenhouse structures were demolished in February 2020."*

According to the H&A BCP Application, Berkshire conducted a Phase II Subsurface Investigation in November 2017. As part of the investigation, 13 soil borings were advanced to a maximum of 15 feet below ground surface (bgs) across the Site. Soil samples were collected and analyzed for a select group of volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs) and/or metals. Four (4) of the samples exhibited exceedances of the NYSDEC Part 375 soil cleanup objectives (SCOs) for unrestricted use (USCO) and/or restricted residential use. A summary of the results is as follows:

- The following petroleum and solvent-related analytes were found to exceed the NYSDEC USCOs in soil samples, primarily from two (2) to four (4) feet bgs:
    - Ethylbenzene– maximum 20.6 milligrams per kilogram (mg/kg)
    - Naphthalene– maximum 12.1 mg/kg;
    - n-Propylbenzene– maximum 8.54 mg/kg;
    - Toluene– maximum 50 mg/kg;
    - 1,3,5-Trimethylbenzene– maximum 18.100 mg/kg; and
    - Total Xylenes– maximum 96.7 mg/kg.
- Benzene (maximum 5.32 mg/kg) exceeded the NYSDEC RRSCOs in SB-4 (2) to four (4) feet bgs. This soil boring is located at the former gasoline pump island on the 136 Croton Avenue parcel.
- The compound 1,2,4-trimethylbenzene (maximum 52.2 mg/kg) exceeded the NYSDEC RRSCOs in SB-11 from (2) to four (4) feet bgs. This soil boring is located at the former gasoline pump island of the 138-140 Croton Avenue parcel.
- Arsenic, barium, chromium, mercury, and lead were also detected in the shallow samples; however, they did not exceed the USCOs or RRSCOs.
- The highest VOCs, PAHs, and metals were located at the northeastern corner of the 138-140 Croton Avenue parcel and northern section of the 136 Croton Avenue parcel.

Additional information regarding November 2017 soil sample data can be found in Section III of **Appendix A**. A summary of the soil sampling exceedances from the Berkshire Investigation are depicted on **Figure 1.5**.

NYSDEC BCP Application Denial Letter, dated December 31, 2020

Based on the aforementioned BCP Application submitted by H&A, the Department denied the request for the Site to participate in the BCP. In making its determination, the Department reviewed the Site data provided by the applicant and concluded that insufficient contamination was identified at the Site to require remediation under the BCP. It was noted that only soil sampling results were provided in the application, with only two (2) of the 13 borings marginally exceeding the RRSCOs. The Department also indicated that the requestor may re-apply with new data that may include groundwater, indoor air, and soil vapor sampling results.

Phase I ESA, prepared by SESI, dated November 2021

SESI conducted a Phase I ESA in November 2021. SESI identified the following Recognized Environmental Concerns (RECs) for the Site:

- **REC-1 Former Gasoline Station and Automobile Repair Garage**: The Site formerly operated as a retail gasoline station and automotive repair garage circa 1940s through 1990s. Four (4) 10,000-gallon gasoline underground storage tanks (USTs) that were identified to be leaking were removed from the western side of 136 Croton Ave in 1981 and three (3) USTs of unknown size were also reportedly removed from the northern side of 138-140 Croton Ave. Petroleum-related soil contamination above New York State Department of Environmental Conservation (NYSDEC) Restricted-Residential Soil Cleanup Objectives (RRSCOs) was identified at the locations of the former USTs. That contamination has yet to be delineated or remediated. Furthermore, it is not known whether the contamination related to this REC has impacted Site groundwater or soil gas. According to previous reports, there is also evidence of an in-ground hydraulic lift at the Site associated with these former operations. **SESI recommends conducting a geophysical evaluation at the former filling station to identify the locations of the previously removed USTs. Additionally, SESI recommends subsurface investigation be conducted at the Site to determine the nature and extent of the contamination associated with the former operations as a gasoline station and automotive repair garage.**
- **REC-2 Former Nursey Operations**: The Site formerly operated as a nursery from circa 1980s until 2017. It is not known if pesticides were used as part of the operations. Previous environmental investigations at the Site did not analyze soil sample for pesticides. Therefore, there is the potential for contamination related to these operations to have impacted the Site. **SESI recommends subsurface investigation be conducted at the Site to determine the nature and extent of the contamination associated with the former operations as a nursery.**
- **REC-3 Former Potential USTs and/or Aboveground Storage Tanks (ASTs)**: Several structures were present at the Site throughout its history. The heating source for these structures is not known. The historical on-Site structures may have utilized ASTs or USTs containing heating oil. Neither the size nor construction of the former potential ASTs or USTs is known. SESI is unable to rule out the potential presence of ASTs and/or USTs associated with the former on-Site structures. Furthermore, previous environmental documents depict the former presence of two (2) 275-gallon ASTs located outside of the

former nursery buildings. The locations of the former ASTs coincide with SESI's observations of concrete pads during the Site reconnaissance. Additional information pertaining to those tanks was not provided. **A subsurface geophysical evaluation should be considered to identify potential tanks associated with the former buildings.**

- **REC-4 Historical Spill #9613901**: Historical Spill #9613901 was assigned to the Site under facility name Sun Valley Nursey (located at 136 Croton Avenue) on February 26, 1997 when an unknown quantity of gasoline was released to the environment from a UST of unspecified size, resulting in soil impacts at the Site. The cause of the spill was listed as tank overfill. According to a DEC memo related to this case number, approximately 300 cubic yards of soil were removed to remediate the impacts. Based on an unidentified report, dated March 27, 1997, a No Further Action (NFA) was issued for the spill number on September 9, 1997 and the case was subsequently closed. Despite the closed status of the case, SESI has not received the remedial documents related to this spill number. Therefore, SESI cannot rule out the potential for there to still be environmental impacts at the Site related to Spill Number 9613901. **Therefore, additional investigation is recommended to determine if impacts related to this spill are present at the Site.**

Based on the previous environmental assessments and investigations, SESI identified the following AOCs to investigate as part of this Phase II ESA:

- **AOC-1 Historical Filling Station Pads and UST Removal Area**: Corresponds with REC-1 from the 2021 SESI Phase I ESA.
- **AOC-2A Potential UST GPR Anomaly 1**: Corresponds with REC-3.
- **AOC-2B Potential UST GPR Anomaly 2**: Corresponds with REC-2 and REC-3.
- **AOC-3 Historical AST**: Corresponds with REC-2 and REC-3.
- **AOC-4 Historical Hydraulic Lift Area**: Corresponds with REC-1 and REC-2.
- **AOC-5 Historical UST Removal Area**: Corresponds with REC-1.

Figure 1.3 depicts the locations of the aforementioned RECs identified in the 2021 SESI Phase I ESA and the corresponding AOCs investigated as part of this Phase II ESA.

2.0 SUBSURFACE INVESTIGATION

SESI conducted a Site investigation on both lots in August and September 2021. The purpose of the investigation was to further investigate and delineate the impacts identified during previous investigations. A summary of this Phase II ESA is included herein.

2.1 SITE GEOLOGY

Based on soil borings conducted during this investigation, brown-gray sand with silt and some gravel was generally present throughout the Site at depths of 0 to 10 feet bgs. Interbedded layers of brown silt with gravel and brown clay with silt and gravel (weathered bedrock) were encountered from approximately 10 to 45 feet bgs. Tan to orange unconsolidated till was encountered between 45 and 50 feet bgs.

2.2 SAMPLE COLLECTION SUMMARY

In total, 22 soil samples were collected from 23 soil borings, two (2) groundwater samples were collected from three (3) temporary well monitoring points, five (5) soil gas samples were collected from five (5) soil gas points, and one (1) ambient air sample was collected. The sampling occurred between August 13 and September 2, 2021.

Table 2.1 below presents a summary of the soil borings, monitoring wells, and soil vapor points installed during this Phase II ESA. The locations of the soil borings were based on the previous environmental sampling in November 2017. In addition, **Figure 1.4** presents soil, groundwater, soil gas and ambient air sample locations.

The samples were delivered under chain-of-custody and analyzed at SGS Laboratories, a New York State Department of Health (NYSDOH) ELAP-certified laboratory (NY Certification 10983). As noted in the table below, the soil samples were analyzed for Target Compound List +30 TICs/Target Analyte List (TCL+30/TAL), which includes total VOCs, base neutral acid extractables (BNAs), TAL metals (23 metals + cyanide), pesticides, and PCBs. The groundwater samples were analyzed for TCL+30/TAL as well as emerging contaminants perfluoroalkyl and polyfluoroalkyl substances (PFAS) and 1,4-dioxane. The soil gas samples analyzed VOCs by EPA TO-15 method.

Sample collection methods are described in the sections below.

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Table 2.1 - Sample Summary Table

Boring Location Name	Sample Name	Sample Date	Installation Method	Boring Depth (ft)	Sample Depth (ft)	Sample Media	Anlayses
SB-1	SB-1 (6.0-6.5)	8/13/2021	Direct Push (Geoprobe®)	15	6.0-6.5	Soil	TCL+30/TAL
SB-2	SB-2 (4.5-5.0)	8/13/2021	Direct Push (Geoprobe®)	10	4.5-5.0	Soil	TCL+30/TAL
SB-3	SB-3 (6.0-6.5)	8/13/2021	Direct Push (Geoprobe®)	10	6.0-6.5	Soil	TCL+30/TAL
SB-4	N/A	N/A	Direct Push (Geoprobe®)	10	N/A	Soil	N/A
SB-5	SB-5 (6.0-6.5)	8/13/2021	Direct Push (Geoprobe®)	10	6.0-6.5	Soil	TCL+30/TAL
SB-6	SB-6 (9.5-10.0)	8/13/2021	Direct Push (Geoprobe®)	10	9.5-10.0	Soil	TCL+30/TAL
SB-7	N/A	N/A	Direct Push (Geoprobe®)	10	N/A	Soil	N/A
SB-8	SB-8 (9.5-10.0)	8/13/2021	Direct Push (Geoprobe®)	10	9.5-10.0	Soil	TCL+30/TAL
SB-9	SB-9 (7.5-8.0)	8/13/2021	Direct Push (Geoprobe®)	10	7.5-8.0	Soil	TCL+30/TAL
SB-10	SB-10 (7.5-8.0)	8/13/2021	Direct Push (Geoprobe®)	10	7.5-8.0	Soil	TCL+30/TAL
SB-11	SB-11 (4.5-5.0)	8/16/2021	Direct Push (Geoprobe®)	10	4.5-5.0	Soil	TCL+30/TAL
SB-12	SB-12 (1.0-1.5)	8/16/2021	Direct Push (Geoprobe®)	10	1.0-1.5	Soil	TCL+30/TAL
SB-13	N/A	N/A	Direct Push (Geoprobe®)	14	N/A	Soil	N/A
SB-14	SB-14 (9.5-10.0)	8/16/2021	Direct Push (Geoprobe®)	10	9.5-10.0	Soil	TCL+30/TAL
SB-15	SB-15 (2.5-3.5)	8/16/2021	Direct Push (Geoprobe®)	10	2.5-3.5	Soil	TCL+30/TAL
SB-16	SB-16 (4.5-5.0)	8/16/2021	Direct Push (Geoprobe®)	10	4.5-5.0	Soil	TCL+30/TAL
SB-17	SB-17 (6.0-6.5)	8/16/2021	Direct Push (Geoprobe®)	10	6.0-6.5	Soil	TCL+30/TAL
SB-18	SB-18_2.0_2.5	9/2/2021	Direct Push (Sonic)	45	2.0-2.5	Soil	TCL+30/TAL
SB-18	SB-18_7.0_7.5	9/2/2021	Direct Push (Sonic)	45	7.0-7.5	Soil	TCL+30/TAL
SB-19	SB-19_3.0_3.5	9/2/2021	Direct Push (Sonic)	50	3.0-3.5	Soil	TCL+30/TAL
SB-19	SB-19_4.0_4.5	9/2/2021	Direct Push (Sonic)	50	4.0-4.5	Soil	TCL+30/TAL
SB-20	SB-20_3.0_3.5	9/2/2021	Direct Push (Sonic)	10	3.0-3.5	Soil	TCL+30/TAL
SB-21	SB-21_2.0_2.5	9/2/2021	Direct Push (Sonic)	10	2.0-2.5	Soil	TCL+30/TAL
SB-22	SB-22_2.0-2.5	9/2/2021	Direct Push (Sonic)	10	2.0-2.5	Soil	TCL+30/TAL
SB-23	SB-23_2.0_2.5	9/2/2021	Direct Push (Sonic)	10	2.0-2.5	Soil	TCL+30/TAL
TW-1	TW-1	9/2/2021	Direct Push (Sonic)	42	35	Water	TCL+30/TAL, PFAs, 1,4-Dioxane
TW-2	TW-2	9/2/2021	Direct Push (Sonic)	50	45	Water	TCL+30/TAL (no Metals), PFAs, 1,4-Dioxane
TW-3	N/A	8/13/2021	Direct Push (Geoprobe®)	15	N/A	Water	N/A
SG-1	SG-1	8/16/2021	Direct Push (Geoprobe®)	5	5	Soil Gas/Vapor	TO-15
SG-2	SG-2	8/16/2021	Direct Push (Geoprobe®)	5	5	Soil Gas/Vapor	TO-15
SG-3	SG-3	8/16/2021	Direct Push (Geoprobe®)	5	5	Soil Gas/Vapor	TO-15
SG-4	SG-4	8/16/2021	Direct Push (Geoprobe®)	5	5	Soil Gas/Vapor	TO-15
SG-5	SG-5	8/16/2021	Direct Push (Geoprobe®)	5	5	Soil Gas/Vapor	TO-15
AA-1	AA-1	8/16/2021	Direct Push (Geoprobe®)	0	0	Ambient Air	TO-15

2.3 SOIL BORINGS AND SOIL INVESTIGATION

Prior to conducting subsurface drilling, SESI's drilling contractor, Coastal Environmental Solutions, Inc. (Coastal) contacted New York's utility mark-out system. In addition, Coastal retained RSK Environmental Group (RSK) to locate underground utilities not included in the one-call and to conduct a geophysical survey using ground penetrating radar (GPR) and electromagnetic (EM) detection. The GPR/EM surveying was performed on August 13, 2021 to clear soil boring locations, as well as search for potential USTs. Two (2) metallic anomalies were found to the south and southwest of the former building located on Lot 79 (136 Croton Avenue property). These structures were identified as cylindrical and located depths between two (2) and three (3) feet bgs, which is consistent with an UST signature (AOC-2). Both anomalies were identified directly adjacent to and parallel with building footprints. GPR anomaly #1 was located

adjacent what was identified as a former AST pad. This GPR Anomaly No. 1 is approximately 12 feet by six (6) feet (AOC-2A). The GPR Anomaly No. 2 is located to the west of the same building and is approximately nine (9) feet by four (4) feet (AOC-2B). These areas are investigated as part of this Phase II ESA. RSK's Geophysical Investigation Report is provided as **Appendix B**. The potential USTs are depicted on **Figure 1.3**.

23 soil borings were advanced using a combination of direct-push, auger rotary, and sonic drilling methods. The borings were advanced to depths ranging from approximately ten (10) feet to 50 feet bgs using a track-mounted Geoprobe® rig. Borings were spaced evenly throughout the Site to supplement the November 2017 data and address AOCs based on this report and prior knowledge of Site usage. All borings and observations were logged to identify the presence of staining, fill material, and total VOC concentrations using a PID. Soil samples were collected based on the GPR/EM survey, previously identified AOCs, and any visual or olfactory impacts during the investigation. These soil samples were collected as discrete grab samples and were not composited. Soil boring logs are presented in **Appendix C** and soil boring locations are depicted in **Figure 1.4**.

2.4 GROUNDWATER INVESTIGATION

During the first mobilization in August 2021, refusal was encountered around approximately 15 feet bgs across the Site using direct push and auger rotary drilling methods and groundwater was not encountered during soil boring advancement to this depth. Furthermore, a one (1)-inch temporary well point (TW-3) was placed in soil boring SB-1 to a depth of 15 feet bgs and no groundwater was recovered. Weathered bedrock encountered at approximately 15 feet bgs resulted in a very tight formation rendering difficult for the Geoprobe® to push through. On September 2, 2021, SESI re-mobilized to the Site and Costal used a Sonic Drill Rig to advance soil borings to depths below 15 feet and install two (2) additional 2-inch temporary monitoring wells. These temporary wells (TW-1 and TW-2) were placed between 40 and 50 feet bgs for the purpose of collecting groundwater samples. Groundwater was encountered at 29.98 and 33.48 feet bgs for TW-1 and TW-2, respectively. No groundwater was recovered in TW-3. TW-1 and TW-2 were purged with a two (2)-inch bailers and exhibited high turbidity and slow recharge. These temporary wells were then sampled for TCL+30/TAL, PFAS and 1,4-dioxane. The temporary monitoring well locations are depicted in **Figure 1.4.** Monitoring well logs are included in **Appendix C**.

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2.5 SOIL GAS AND AMBIENT AIR INVESTIGATION

Five (5) soil gas samples (SG-1 through SG-5) were collected throughout the Site. Each was installed using direct push and tubing was placed beneath the soil, existing concrete building pad or asphalted roadway. These soil gas samples were collected in 1-L Summa cannisters with flow controllers set to collect the sample at a flow rate of 200 ml/min. In addition, one (1) ambient air sample (AA-1) was collected from a central outdoor location at the Site. The ambient air sample was collected in a 6-L Summa canister with flow controller set to collect the sample at a flow rate of 200 ml/min. Samples were analyzed for volatile vapors by U.S. EPA Method TO-15. Soil gas and ambient air sample locations are depicted in **Figure 1.4**.

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3.0 ANALYTICAL RESULTS

3.1 SOIL INVESTIGATION RESULTS

Soil samples were compared to the NYSDEC USCO and RRSCO Part 375 Soil Cleanup Objectives and associated CP-51 Soil Cleanup Guidance (SCG). A summary table of the analytical results compared to NYSDEC USCOs and RRSCOs is presented in **Table 3.1**, and **Figure 1.5**. The soil laboratory deliverables are provided as **Appendix D. Table 3.2** below includes a summary of the soil exceedances of the USCOs and RRSCOs.

Seven (7) of the 22 samples collected have exceedances of one (1) or more analyte above the soil cleanup objectives, including: SB-5 (6-6.5), SB-14 (9.5-10), SB-18 (2-2.5), SB-18 (7-7.5), SB-19 (3-3.5), SB-19 (4-4.5), and SB-22 (2-2.5). The contaminants identified at the Site at concentrations above either USCO or RRSCO include VOCs (acetone, and BTEX [benzene, toluene, ethylbenzene, and xylenes]), naphthalene, and metals (arsenic, copper, selenium, and silver).

Acetone was detected above its respective USCO in one (1) soil sample: SB-5 (0.0651 mg/kg) from 6.0 to 6.5 feet bgs. Copper was detected above its respective USCO in one (1) soil sample: SB-14 (69.5 mg/kg) from 9.5 to 10 feet bgs.

Soil samples from three (3) other soil boring locations exhibited concentrations exceeding the Part 375 Soil Cleanup Objectives and associated CP-15 SCG. These sample locations are SB-18, SB-19, and SB-22, further described below:

<u>SB-18</u>

The SB-18 soil boring was advanced adjacent to SB-4 from the 2017 Berkshire Phase II ESA and within the pump island area of the 136 Croton Ave parcel (**AOC-1**). Two (2) soil samples were collected from this location based on the highest PID readings. SB-18_2.0_2.5, collected from 2.0 to 2.5 feet bgs, exhibited a PID reading of 259 ppm, while the sample collected at 7.0 to 7.5 feet bgs (SB-18_7.0_7.5) exhibited a PID reading of 208 ppm.

Soil sample SB-18_2.0_2.5 exhibited detections of m,p-xylene (120 mg/kg) and total xylenes (167 mg/kg) at concentrations above their respective RRSCOs. This sample also contained concentrations of benzene (0.674 mg/kg), ethylbenzene (36.6 mg/kg), toluene (8.13 mg/kg), o-xylene (47.4 mg/kg), and naphthalene (13.8 mg/kg) above their respective USCOs.

Soil sample SB-18_7.0_7.5 exhibited concentrations of m,p-xylene (3.23 mg/kg), o-xylene (1.72 mg/kg), total xylenes (4.95 mg/kg), and silver (2.3 mg/kg) above their respective USCOs.

SB-19

The SB-19 soil boring was advanced adjacent to SB-11 from the 2017 Berkshire Phase II ESA and within the northeastern area of the 138-140 Croton Ave parcel (**AOC-5**). Two (2) soil samples were collected from this location based on the highest PID readings. SB-19_3.0_3.5, collected from 3.0 to 3.5 feet bgs, exhibited a PID reading of 1109 ppm, while the sample collected at 4.0 to 4.5 feet bgs (SB-19_4.0_4.5) exhibited a PID reading of 800 ppm.

Soil sample SB-19_3.0_3.5 exhibited detections of m,p-xylene (235 mg/kg) and total xylenes (329 mg/kg) above their respective RRSCOs. This sample also contained concentrations of benzene (2.97 mg/kg), ethylbenzene (48.3 mg/kg), toluene (67.5 mg/kg), o-xylene (93.5 mg/kg), and naphthalene (13.9 mg/kg) above their respective USCOs.

Soil sample SB-19_4.0_4.5 exhibited concentrations of benzene (0.287 mg/kg), ethylbenzene (8.88 mg/kg), toluene (7.6 mg/kg), m,p-xylene (46.4 mg/kg), o-xylene (17.7 mg/kg) and total xylenes (64.1 mg/kg) above their respective USCOs.

SB-22

The SB-22 soil boring was advanced adjacent to SB-18 on the eastern side of the historic pump islands in the northern portion of the 136 Croton Ave parcel (**AOC-1**). One (1) soil sample was collected from 2.0 to 2.5 feet bgs based on the previous depth of contamination noted in SB-18. The sample collected exhibited arsenic (85.4 mg/kg) at a concentration above its respective RRSCO and selenium (12.9 mg/kg) at a concentration above its respective USCO.

The laboratory noted that selenium and silver specifically exhibited elevated detection limits over USCOs due to dilutions required for high interfering element(s). These notes are made in the tables and figures presenting these data.

Metallic Anomalies (AOC-2)

The GPR survey identified two (2) metallic anomalies that had the subgrade appearance of USTs. Three (3) borings were advanced around each anomaly; SB-3, SB-4, and SB-5 for anomaly 1

(**AOC-2A**) and SB-6, SB-7, and SB-8 for anomaly 2. No visual impacts or odors were identified in the borings. Two (2) samples were collected from each AOC-2; SB-3 and SB-5 for AOC-2B, and SB-6 and SB-8 for AOC-2A. The only exceedance identified was acetone, which was detected at a concentration (0.0651 mg/kg) above its USCO in sample SB-5 (6-6.5). However, it should be noted that acetone is a common laboratory contaminant.

Greenhouse and Covered Areas

The former greenhouse and covered areas were identified as potentially containing pesticides and herbicides from previous nursery and plant growing activities. Several borings were advanced within the footprint of the former greenhouse structures, as depicted on **Figure 1.4**. Pesticides and herbicides were either not detected or not detected at concentrations above the soil cleanup objectives across the Site.

PCBs

PCBs were sampled throughout the Site and were non-detect, with the exception of Arcolor 1254 in soil sample SB-23_2.0-2.5; however, the concentration of this analyte does not exceed any of the soil cleanup objectives.

Table 3.2 - Soil Sample Exceedances

Client Sample ID:		USCO	RRSCO	SB-1 (6-6.5)	SB-2 (4.5-5.0)	SB-3 (6-6.5)	SB-5 (6-6.5)	SB-6 (9.5-10.0)	SB-8 (9.5-10.0)	SB-9 (7.5-8.0)	SB-10 (7.5-8.0)	SB-11(4.5-5.0)	SB-12(1.0-1.5)	SB-14(9.5-10.0)
Lab Sample ID:				JD29923-1	JD29923-2	JD29923-3	JD29923-4	JD29923-5	JD29923-6	JD29923-7	JD29923-8	JD30019-1	JD30019-2	JD30019-3
Date Sampled:				8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/16/2021	8/16/2021	8/16/2021
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Depth:	Units			6-6.5'	4.5-5.0'	6-6.5'	6-6.5'	9.5-10.0'	9.5-10.0'	7.5-8.0'	7.5-8.0'	4.5-5.0'	1.0-1.5'	9.5-10.0'
MS Volatiles (SW846 8260D)														
Acetone	mg/kg	0.05	100	ND (0.0054)	0.0071 J	0.0061 J	**0.0651**	0.0053 J	ND (0.0051)	ND (0.0040)	ND (0.0048)	ND (0.0037)	ND (0.0050)	0.0285
Benzene	mg/kg	0.06	4.8	ND (0.00059)	ND (0.00061)	ND (0.00041)	ND (0.00052)	ND (0.00042)	ND (0.00057)	ND (0.00044)	ND (0.00052)	ND (0.00041)	ND (0.00055)	0.00087
Ethylbenzene	mg/kg	1	41	ND (0.00059)	ND (0.00060)	ND (0.00041)	ND (0.00052)	ND (0.00042)	ND (0.00056)	ND (0.00044)	ND (0.00052)	ND (0.00041)	ND (0.00055)	ND (0.00062)
Toluene	mg/kg	0.7	100	ND (0.00068)	ND (0.00070)	ND (0.00048)	ND (0.00060)	ND (0.00048)	ND (0.00065)	ND (0.00051)	ND (0.00060)	ND (0.00047)	ND (0.00064)	0.0012 J
m,p-Xylene	mg/kg	0.26	100	ND (0.0012)	ND (0.0012)	ND (0.00082)	ND (0.0010)	ND (0.00082)	ND (0.0011)	ND (0.00087)	ND (0.0010)	ND (0.00081)	ND (0.0011)	0.0015
o-Xylene	mg/kg	0.26	100	ND (0.00060)	ND (0.00061)	ND (0.00042)	ND (0.00052)	ND (0.00042)	ND (0.00057)	ND (0.00044)	ND (0.00053)	ND (0.00041)	ND (0.00056)	ND (0.00062)
Xylene (total)	mg/kg	0.26	100	ND (0.00060)	ND (0.00061)	ND (0.00042)	ND (0.00052)	ND (0.00042)	ND (0.00057)	ND (0.00044)	ND (0.00053)	ND (0.00041)	ND (0.00056)	0.0015
MS Semi-volatiles (SW846 8270E)														
Naphthalene	mg/kg	12	100	ND (0.027)	ND (0.011)	ND (0.010)	ND (0.010)	ND (0.0098)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.019)	ND (0.010)
Metals Analysis														
Arsenic	mg/kg	13	16	<2.2	<4.4 [g]	<2.3	<4.4 [g]	<2.2	<4.5 [g]	<4.6 [g]	<2.3	<2.3	5.8	<4.4 [g]
Copper	mg/kg	50	270	20.1	16.7 [g]	15.3	18.8 [g]	12.2	20.5 [g]	20.3 [g]	10.9	19.1	14.1	**69.5 [g]**
Selenium	mg/kg	3.9	180	<2.2	<4.4 [g,h]	<2.3	<4.4 [g,h]	<2.2	<4.5 [g,h]	<4.6 [g,h]	<2.3	<2.3	<2.3	<4.4 [g,h]
Silver	mg/kg	2	180	1.1 [g]	1.1 [g]	<1.1 [g]	1.4 [g]	<2.7 [g,h]	1.4 [g]	1.5 [g]	1	1.4 [g]	<2.8 [g,h]	1.1 [g]

Client Sample ID:		USCO	RRSCO	SB-15(2.5-3.5)	SB-16(4.5-5.0)	SB-17(6-6.5)	SB-18_2.0_2.5	SB-18_7.0_7.5	SB-19_3.0_3.5	SB-19_4.0_4.5	SB-20_3.0_3.5	SB-21_2.0_2.5	SB-22_2.0_2.5	SB-23_2.0_2.5
Lab Sample ID:				JD30019-4	JD30019-5	JD30019-6	JD30962-1	JD30962-2	JD30962-3	JD30962-4	JD30962-5	JD30962-6	JD30962-7	JD30962-8
Date Sampled:				8/16/2021	8/16/2021	8/16/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Depth:	Units			2.5-3.5'	4.5-5.0'	6-6.5'	2.0-2.5'	7.0-7.5'	3.0-3.5'	4.0-4.5'	3.0-3.5'	2.0-2.5'	2.0-2.5'	2.0-2.5'
MS Volatiles (SW846 8260D)														
Acetone	mg/kg	0.05	100	ND (0.0037)	ND (0.0041)	0.0072 J	ND (0.22) [b]	ND (0.22) [c]	ND (0.21) [b]	ND (0.22) [b]	NA	NA	NA	NA
Benzene	mg/kg	0.06	4.8	ND (0.00040)	ND (0.00045)	ND (0.00040)	**0.674**	ND (0.024)	**2.97**	**0.287**	NA	NA	NA	NA
Ethylbenzene	mg/kg	1	41	ND (0.00040)	ND (0.00045)	ND (0.00040)	**36.6**	0.632	**48.3**	**8.88**	NA	NA	NA	NA
Toluene	mg/kg	0.7	100	ND (0.00047)	ND (0.00052)	ND (0.00046)	**8.13**	0.208	**67.5**	**7.6**	NA	NA	NA	NA
m,p-Xylene	mg/kg	0.26	100	ND (0.00080)	ND (0.00090)	ND (0.00078)	**120**	**3.23**	**235**	**46.4**	NA	NA	NA	NA
o-Xylene	mg/kg	0.26	100	ND (0.00041)	ND (0.00046)	ND (0.00040)	**47.4**	**1.72**	**93.5**	**17.7**	NA	NA	NA	NA
Xylene (total)	mg/kg	0.26	100	ND (0.00041)	ND (0.00046)	ND (0.00040)	**167**	**4.95**	**329**	**64.1**	NA	NA	NA	NA
MS Semi-volatiles (SW846 8270E)														
Naphthalene	mg/kg	12	100	ND (0.0099)	ND (0.010)	ND (0.0097)	**13.8**	0.202	**13.9**	8.26	ND (0.010)	ND (0.0098)	ND (0.0096)	ND (0.0098)
Metals Analysis														
Arsenic	mg/kg	13	16	<2.1	<4.3 [g]	2.6	<4.4 [g]	<2.2	<4.4 [g]	<4.7 [g]	<4.4 [g]	<4.3 [g]	**85.4**	<4.6 [g]
Copper	mg/kg	50	270	12.5	22.9 [g]	11.8	17.1 [g]	15.8	25.5 [g]	22.6 [g]	17.1 [g]	18.1 [g]	15.8	30.2 [g]
Selenium	mg/kg	3.9	180	<2.1	<4.3 [g,h]	<2.1	<4.4 [g,h]	<2.2	<4.4 [g,h]	<4.7 [g,h]	<4.4 [g,h]	<4.3 [g,h]	**12.9**	<4.6 [g,h]
Silver	mg/kg	2	180	1.3 [g]	1.8 [g]	1.5 [g]	2.0 [g]	**2.3 [g]**	2.0 [g]	2.0 [g]	1.5 [g]	1.9 [g]	<2.8 [g,h]	2.0 [g]

Footnotes:

[a] Associated CCV outside of control limits low.

[b] Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high. Associated CCV outside of control limits high, sample was ND.

[c] Associated CCV outside of control limits high, sample was ND.

[d] This compound in BS is outside in house QC limits bias high.

[e] Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

[f] More than 40 % RPD for detected concentrations between the two GC columns.

[g] Elevated detection limit due to dilution required for high interfering element.

[h] Elevated detection limit over USCOs due to dilution required for high interfering element.

Additional Notes:

mg/kg = Miligrams per kilogram

ND = Not Detected

- = No soil cleanup objective established

NA = Not Tested

J = The reported result is an estimate. The value is less than the minimum calibration level but greater than the estimated detection limit (EDL)

USCO = NY Unrestricted Use Soil Cleanup Objectives (6 NYCRR 375-6 12/06)

RRSCO = NY Restricted Residential Use Soil Cleanup Objectives w/CP-51 (10/10) (6 NYCRR 375-6 12/06)

= Concentration exceeds USCOs

= Concentration exceeds RRSCOs

3.2 GROUNDWATER INVESTIGATION RESULTS

In total, three (3) temporary well points were placed; however, groundwater was encountered in only two (2) of the temporary well points (TW-1 and TW-2) and one (1) groundwater sample was collected from each. Groundwater was not encountered in TW-3. The groundwater analytical results summary tables are included in **Tables 3.3**, and on **Figure 3.1**. The groundwater laboratory deliverable reports are included in **Appendix D**. **Table 3.4** below presents a summary of the groundwater exceedances of the ambient water quality standards (AWQS).

VOCs and metals were detected above AWQS in TW-1. The following concentrations of VOCs were found above the AWQS: benzene (2.2 ug/L), ethylbenzene (12.2 ug/L), toluene (11.1 ug/L), o-xylene (18.2 ug/L), and total xylene (62.9 ug/L). In addition, the following concentrations of metals were found above the AWQS: arsenic (29.6 ug/L), barium (4,140 ug/L), chromium (728 ug/L), copper (485 ug/L), iron (602,000 ug/L), lead (194 ug/L), manganese (9,180 ug/L), nickel (481 ug/L), silver (59.4 ug/L), and sodium (24,400 ug/L).

VOCs and naphthalene were detected above AWQS in TW-2. The following concentrations of VOCs were found above the AWQS: benzene (2.7 ug/L), ethylbenzene (12.5 ug/L), toluene (25.2 ug/L), o-xylene (49.1 ug/L), total xylenes (143 ug/L). In addition, naphthalene was found at a concentration of 16.3 ug/L. Metals were not analyzed for this sample due to the high turbidity and limited sample volume.

As shown on **Table 3.4** below, several metals including arsenic, barium, chromium, copper, iron, lead, magnesium, manganese, mercury, nickel, selenium, sodium, and zinc were detected at concentrations exceeding the AWQS in the groundwater samples. The presence of these contaminants is potentially attributable to sample turbidity from temporary wells. Additionally, iron, magnesium, manganese, and sodium are secondary concern metals, and the standards are not health based.

Pesticides and PCBs were not detected above their respective AWQS in the groundwater samples. PFAS and 1,4-dioxane were detected in both TW-1 and TW-2 below screening levels established in NYSDEC's June 2021 *Sampling, Analysis, and Assessment of PFAS* document.

Table 3.4 – Groundwater Sample Exceedances

Client Sample ID:	Units	NY GA AWQS	TW-1	TW-2
Lab Sample ID:			JD31011-1 & JD31011-1A	JD31011-2 & JD31011-2A
Date Sampled:			9/3/2021	9/3/2021
Matrix:			Groundwater	Groundwater
MS Volatiles (SW846 8260D)				
Benzene	ug/l	1	**2.2**	**2.7**
Ethylbenzene	ug/l	5	**12.2**	**12.5**
Toluene	ug/l	5	**11.1**	**25.2**
o-Xylene	ug/l	5	**18.2**	**49.1**
Xylene (total)	ug/l	5	**62.9**	**143**
MS Semi-volatiles (SW846 8270E)				
Naphthalene	ug/l	10	4.7	**16.3**
Metals Analysis				
Arsenic	ug/l	25	**29.6** [d]	NT
Barium	ug/l	1000	**4140**	NT
Chromium	ug/l	50	**728** [d]	NT
Copper	ug/l	200	**485** [d]	NT
Iron	ug/l	300	**602000**	NT
Lead	ug/l	25	**194** [d]	NT
Manganese	ug/l	300	**9180** [d]	NT
Nickel	ug/l	100	**481** [d]	NT
Silver	ug/l	50	**59.4** [d]	NT
Sodium	ug/l	20000	**24400**	NT

Notes:

NYSDEC = New York State Department of Environmental Conservation.
AWQS = Ambient Water Quality Standards.
ND = Compound not detected.
ug/l = Micrograms per liter.
ng/l = Nanograms per liter
- = No AWQS established
J = The reported result is an estimate. The value is less than the minimum calibration level but greater than the estimated detection limit (EDL)
NT = Not Tested
[a] = Associated CCV outside of control limits high, sample was ND.
[b] = Associated CCV outside of control limits low.
[c] = Associated ID Standard outside control limits due to matrix interference. Confirmed by reanalysis.
[d] = Elevated detection limit due to dilution required for high interfering element.
= Compound was detected
= Concentration of compound exceeds the NY TOGs Class GA GW or associated Guidance (noted as AWQS)

3.3 SOIL GAS AND AMBIENT AIR INVESTIGATION

Five (5) soil gas samples and one (1) outdoor ambient air sample were collected and analyzed for volatile vapors by U.S. EPA Method TO-15. **Table 3.5** presents a summary of soil gas and ambient air analytical data. The soil gas and ambient air analytical laboratory deliverable report is included in **Appendix D**. A soil gas and ambient air sample location plan and summary of the results is presented in **Figure 3.2**.

Although New York State does not have standards for soil vapor, for discussion purposes SESI has used the NYSDOH Matrices lower threshold levels to evaluate the Matrix A, B, and C listed compounds. **Table 3.6** below presents a summary of the soil gas detections and exceedances of the NYSDOH Matrix A Sub-Slab Vapor Concentrations Criteria (NY-SSC-A) and NYSDOH Matrix B Sub-Slab Vapor Concentrations Criteria (NY-SSC-B) lower threshold levels.

Methylene chloride was detected in two (2) samples (SG-3 and SG-5) at concentrations (147 and 504 ug/m^3, respectively) above the NY-SSC-B lower threshold. Vinyl chloride was also detected in sample SG-5 at a concentration of 12 ug/m^3 above the NY-SSC-C lower threshold. Additional compounds were detected (as depicted in the **Table 3.6** below); however, there are no NYSDOH Matrices exceedances for these compounds. The presence of chlorinated-, solvent-, and petroleum hydrocarbon-related VOCs suggests that an on-Site or nearby source(s) of these compounds is/are present. It is noted that due to the higher detections in SG-1 and SG-4, the laboratory diluted the matrix and minimum detection limits (MDLs) above the matrix standards.

Table 3.6 – Soil Gas and Ambient Air Exceedances

Client Sample ID:	NYSDOH Matrix A	NYSDOH Matrix B	NYSDOH Matrix C	SG-1	SG-2	SG-3	SG-4	SG-5	AA-1
Lab Sample ID:				JD30012-1	JD30012-2	JD30012-3	JD30012-4	JD30012-5	JD30012-6
Date Sampled:				8/16/2021	8/16/2021	8/16/2021	8/16/2021	8/16/2021	8/16/2021
Matrix:				Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Ambient Air
MS Volatiles (TO-15) - ug/m3									
Acetone (2-Propanone)				20300	164	615	216000	511	7.8
1,3-Butadiene				ND (130)	221	113	ND (690)	143	ND (0.082)
Benzene				8210	37.1	26	28500	48.6	0.42 J
Carbon disulfide				ND (93)	24	9.0 J	ND (500)	17	ND (0.059)
Chloromethane				ND (41)	6.4 J	ND (0.64)	ND (210)	19	0.85
Carbon tetrachloride	6			ND (190)	ND (3.0)	ND (3.0)	ND (1000)	ND (3.0)	0.43
Cyclohexane				ND (96)	ND (1.5)	ND (1.5)	888000	17	ND (0.062)
Dichlorodifluoromethane				ND (100)	ND (1.6)	ND (1.6)	ND (540)	ND (1.6)	1.8
Ethanol				ND (530)	51.8	360	ND (2800)	383	3.8
Ethylbenzene				5170	39	25	62100	20	0.42 J
Ethyl Acetate				ND (170)	33	66.2	ND (900)	34	6.1
4-Ethyltoluene				ND (190)	30	ND (2.9)	ND (980)	ND (2.9)	ND (0.12)
Heptane				68800	41	27	2490000	27	1.6
Hexane				133000	93.8	44.8	4830000	51.1	2.9
2-Hexanone				ND (190)	ND (3.0)	62.6	ND (1000)	ND (3.0)	ND (0.12)
Isopropyl Alcohol				ND (200)	33.7	221	ND (1100)	415	0.74
Methylene chloride		100		ND (66)	67	147	ND (340)	504	1.4
Methyl ethyl ketone				ND (160)	112	442	ND (830)	472	0.86
Methyl Isobutyl Ketone				ND (190)	18	25	ND (980)	27	ND (0.12)
Propylene				605 J	3320	742	ND (190)	989	ND (0.022)
1,2,4-Trimethylbenzene				ND (210)	33	ND (3.2)	ND (1100)	ND (3.2)	0.88
1,3,5-Trimethylbenzene				ND (210)	9.3 J	ND (3.3)	ND (1100)	ND (3.3)	ND (0.13)
2,2,4-Trimethylpentane				403000	46	27	395000	14 J	0.93
Tertiary Butyl Alcohol				ND (55)	30	57.9	ND (280)	58.5	ND (0.033)
Tetrachloroethylene		100		ND (260)	ND (4.2)	ND (4.2)	ND (1400)	ND (4.2)	0.21 J
Tetrahydrofuran				ND (190)	ND (2.9)	24	ND (1000)	ND (2.9)	ND (0.12)
Toluene				2860	193	170	211000	159	1.3
Trichlorofluoromethane				ND (200)	ND (3.1)	ND (3.1)	ND (1100)	ND (3.1)	1.3
Vinyl chloride			6	ND (74)	ND (1.2)	ND (1.2)	ND (380)	12	ND (0.046)
m,p-Xylene				6120	154	89.9	113000	62.5	1.5
o-Xylene				1750	47.3	28	24200	22	0.52 J
Xylenes (total)				7860	202	119	137000	84.3	2

Notes:

NYSDOH Matrix A - NYSDOH Matrix A Sub-slab Vapor Concentration Criteria Lower Threshold

NYSDOH Matrix B - NYSDOH Matrix B Sub-slab Vapor Concentration Criteria Lower Threshold

NYSDOH Matrix C - NYSDOH Matrix C Sub-slab Vapor Concentration Criteria Lower Threshold

J - Estimate value

ND - Compound not detected

ug/m^3 - Micrograms per cubic meter

Compound was detected

Concentration of compound exceeds the NYSDOH Matrix A Sub-Slab Vapor Concentrations Criteria

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on soil borings conducted during this investigation, brown-gray sand with silt and some gravel was generally present throughout the Site at depths of 0 to 10 feet bgs. Interbedded layers of brown silt with gravel and brown clay with silt and gravel (weathered bedrock) were encountered from approximately 10 to 45 feet bgs. Tan to orange unconsolidated till was encountered between 45 and 50 feet bgs. Groundwater was encountered between approximately 29 and 34 feet bgs.

Based on the sampling conducted as part of this Phase II investigation, it is evident that contamination of the soil, groundwater, and soil gas is present at the Site, as summarized below:

- **Soil:** The VOCs m,p-Xylene and total Xylenes as well as the metal arsenic were detected in soil above their respective RRSCOs. The VOCs benzene, ethylbenzene, toluene, o-Xylene, and acetone, the SVOC naphthalene, and the metals copper, iron, selenium, and silver were detected in soil above their respective USCOs.
- **Groundwater:** BTEX were detected in groundwater above their respective AWQS. The SVOC naphthalene was detected in groundwater above the AWQS. The metals arsenic, barium, chromium, copper, iron, lead, manganese, nickel, silver and sodium were detected in groundwater above their respective AWQS.
- **Soil Gas:** The VOC methylene chloride was detected in soil gas above the NY-SSC-B lower threshold and vinyl chloride was detected in soil gas above the NY-SSC-C lower threshold. Additional compounds were detected; however, there are no NYSDOH Matrices exceedances for these compounds. The presence of chlorinated-, solvent-, and petroleum hydrocarbon-related VOCs suggests that an on-Site or nearby source(s) of these compounds is/are present.

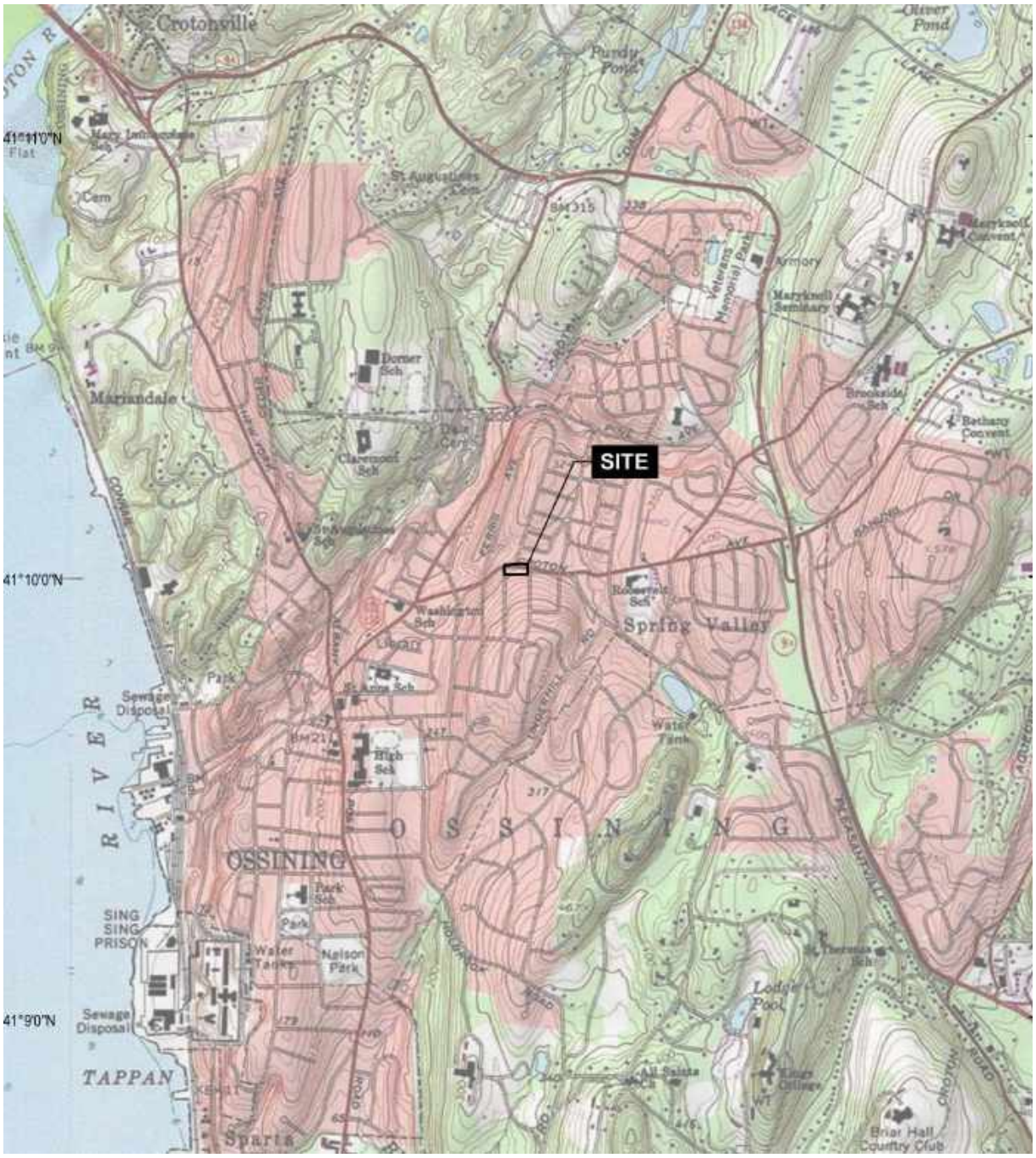
Petroleum-related impacts in soil are generally located within the vicinity of the historical filling station pads and UST removal area in the northwest of the Site (**AOC-1**) and the former UST removal area in the northeast of the Site (**AOC-5**). Furthermore, the groundwater and soil gas samples collected from the vicinity of AOC-1 and AOC-5 exhibit petroleum-related exceedances of the AWQS in groundwater and high detections of petroleum-related compounds in soil gas.

Soil gas samples within the central and southern portions of the Site exhibit detections of not only petroleum-related VOCs, but also chlorinated-VOCs.

With the exception of copper and acetone detected in exceedance of USCOs in samples SB-14 and SB-5, respectively, the soil samples collected across the remainder of the Site (outside of the vicinity of AOC-1 and AOC-5) did not exhibit exceedances of the USCOs or RRSOs. Two (2) subsurface anomalies, indicative of potential USTs, were identified during the Geophysical Survey conducted at the Site, identified as **AOC-2A** and **AOC-2B**. The soil samples collected within the vicinity of the potential USTs did not exhibit evidence of contamination; however, additional investigation is required to confirm whether USTs are not leaking and to property remove them from the Site.

Additional investigation is required to fully characterize the nature and extent of the contamination identified in the Site soil, groundwater, and soil gas across the Site. Remediation of the soil, groundwater, and soil vapor will be needed prior to Site development.

Figures



REFERENCE:
HISTORICAL TOPOGRAPHICAL MAP TAKEN FROM HALEY ALDRICH, MAP DATED SEPTEMBER 2020.





Scale 1"=2000'

0 2000 4000

FIG-1.1

PHASE II
136-140 CROTON AVENUE
OSSINING, NEW YORK 10652

SITE LOCATION MAP

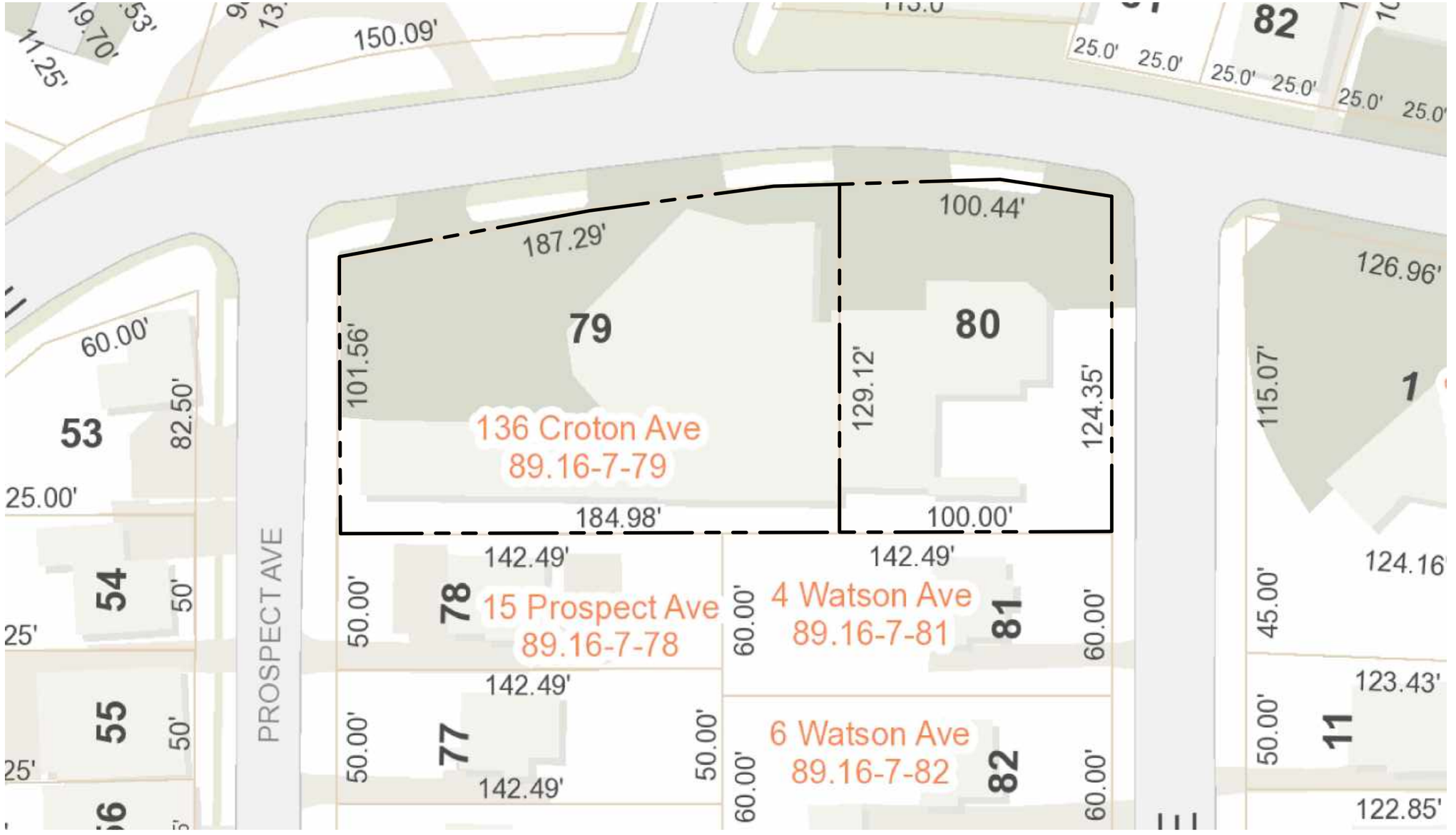
SESI CONSULTING ENGINEERS D.P.C.

SOILS / FOUNDATIONS
SITE DESIGN
ENVIRONMENTAL

12A MAPLE AVE. PINE BROOK, N.J. 07058 PH: 973-808-9050

DRAWN BY: aas
CHECKED BY: CCM
SCALE: AS NOTED
DATE: 08/30/2021
JOB NO.: 12060

N:\ACAD\12060\CAD\PHASE II\12060 – FIG-1.1 – SITE LOCATION MAP.DWG 10/29/21 12:18:29PM, aas, LAYOUT:FIG-1.1



LEGEND:

- SITE BOUNDARY

Scale 1"=40'

0 40 80

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REFERENCE
SITE AND PROPERTY TAX INFORMATION TAKEN FROM WESTCHESTER COUNTY GIS DATABASE. MAP DATED AUGUST 30, 2021.

dwg by: aas
chk by: CCM
scale: AS NOTED
date: 08/30/2021

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SOILS / FOUNDATIONS
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ENVIRONMENTAL
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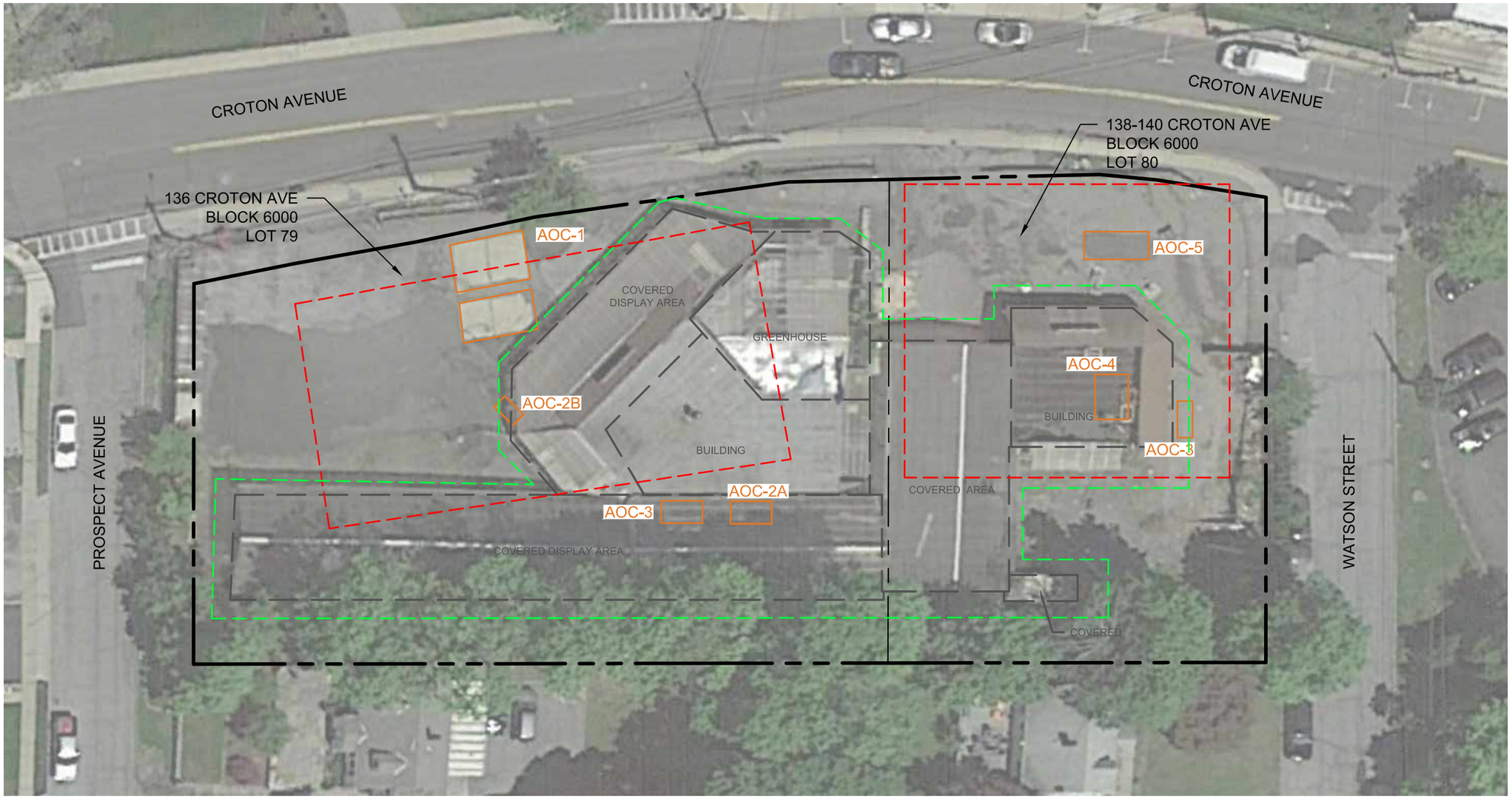
PHASE II
136-140 CROTON AVENUE
OSSINING, NEW YORK 10652

TAX MAP

job no: 12060
drawing no:

FIG-1.2

N:\ACAD\12060\CAD\PHASE II\12060 – FIG-1.2 – TAX MAP.DWG 10/29/21 12:18:41PM, gas, LAYOUT:FIG-1.2



NOTE:
1. BUILDING LINES DEPICT FORMER FEATURES. SITE CURRENTLY VACANT.
2. AREAS OF CONCERN (AOC's) ARE NOTED BASED ON BORINGS COLLECTED IN THE BERKSHIRE ENVIRONMENTAL SERVICES TECHNOLOGY LLC PHASE II INVESTIGATION IN 2017.
3. AOC's ARE APPROXIMATE LOCATIONS AND NOT CLEARLY IDENTIFIED IN 2017.

LEGEND:
- SITE BOUNDARY
- FORMER BUILDING OUTLINE
- APPROX. LOCATION OF AOC
- APPROXIMATE LOCATION OF REC-1
- APPROXIMATE LOCATION OF REC-2

AREA OF CONCERN (AOC) LEGEND:
AOC-1 - HISTORIC FILLING STATION PADS AND UNDERGROUND STORAGE TANK (UST) REMOVAL AREA
AOC-2A - POTENTIAL UST GPR ANOMOLY 1
AOC-2B - POTENTIAL UST GPR ANOMOLY 2
AOC-3 - HISTORIC ABOVEGROUND STORAGE TANK (AST)
AOC-4 - HISTORIC HYDRAULIC LIFT AREA
AOC-5 - HISTORIC UST REMOVAL AREA

RECOGNIZED ENVIRONMENTAL CONDITIONS (REC) LEGEND:
REC-1 - FORMER GASOLINE STATION AND AUTOMOBILE REPAIR GARAGE
REC-2 - FORMER NURSERY OPERATIONS
REC-3 - FORMER POTENTIAL UST's AND/OR AST's (SITE-WIDE)
REC-4 - HISTORICAL SPILL #9613901 (NOT DEPICTED)

Scale 1"=30'
0 30 60

NYS Education Law
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REFERENCE
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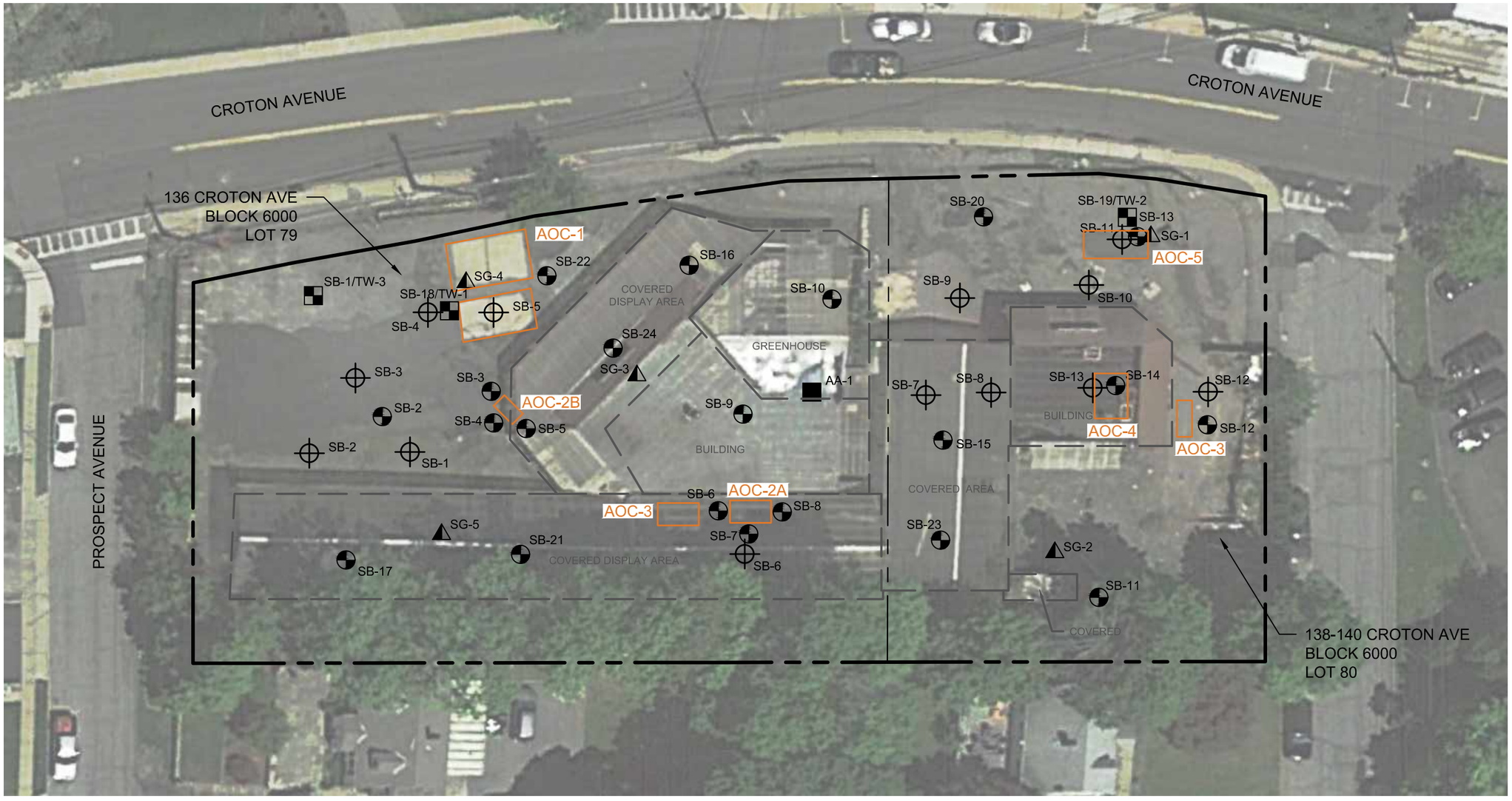
PHASE II
136-140 CROTON AVENUE
OSSINING, NEW YORK 10652

SITE PLAN & REC/AOC LOCATION MAP

job no: 12060
drawing no: FIG-1.3

1 of 1

N:\ACAD\12060\CAD\PHASE II\12060 – FIG-1.3 – SITE PLAN & REC-AOC LOCATION MAP.DWG 11/12/21 01:34:34PM, aas, LAYOUT:FIG-1.3



NOTES:
1. THIS PLAN IS FOR LOCATING SOIL SAMPLES ONLY.
2. OTHER SITE WORK SHOWN HERE IS NOT INTENDED FOR CONSTRUCTION.
3. 2017 RRSCO EXCEEDANCES OF BENZENE (SB-4 [2-4]) AND 1,2,4-TRIMETHYLBENZENE (SB-11 [2-4])
4. 2017 UUSCO EXCEEDANCES SB-4 (2-4), SB-3 (10-12), SB-5 (2-4), AND SB-11 (2-4)
5. BUILDING DEPICTS FORMER FEATURES. SITE CURRENTLY VACANT.

LEGEND:

- SITE BOUNDARY
- FORMER BUILDING OUTLINE
- 2017 BERKSHIRE INVESTIGATION
- SOIL BORINGS NUMBER & APPROX. LOCATION
- PROPOSED SOIL GAS POINTS NUMBER & APPROX. LOCATION
- AMBIENT AIR POINT
- APPROX. LOCATION OF AOC
- APPROX. LOCATION OF TEMPORARY WELL & SOIL BORING

AOC NOTES:
1. BUILDING LINES DEPICT FORMER FEATURES. SITE CURRENTLY VACANT.
2. AREAS OF CONCERN (AOC's) ARE NOTED BASED ON BORINGS COLLECTED IN THE BERKSHIRE ENVIRONMENTAL SERVICES TECHNOLOGY LLC PHASE II INVESTIGATION IN 2017.
3. AOC's ARE APPROXIMATE LOCATIONS AND NOT CLEARLY IDENTIFIED IN 2017.

AOC-1 - HISTORIC FILLING STATION PADS AND UNDERGROUND STORAGE TANK (UST) REMOVAL AREA
AOC-2A - POTENTIAL UST GPR ANOMOLY 1
AOC-2B - POTENTIAL UST GPR ANOMOLY 2
AOC-3 - HISTORIC ABOVEGROUND STORAGE TANK (AST)
AOC-4 - HISTORIC HYDRAULIC LIFT AREA
AOC-5 - HISTORIC UST REMOVAL AREA

Scale 1"=30'
0 30 60

REFERENCE
AERIAL IMAGE TAKEN FROM GOOGLE MAPS, IMAGE DATED 2019.

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scale: AS NOTED
date: 09/17/2021

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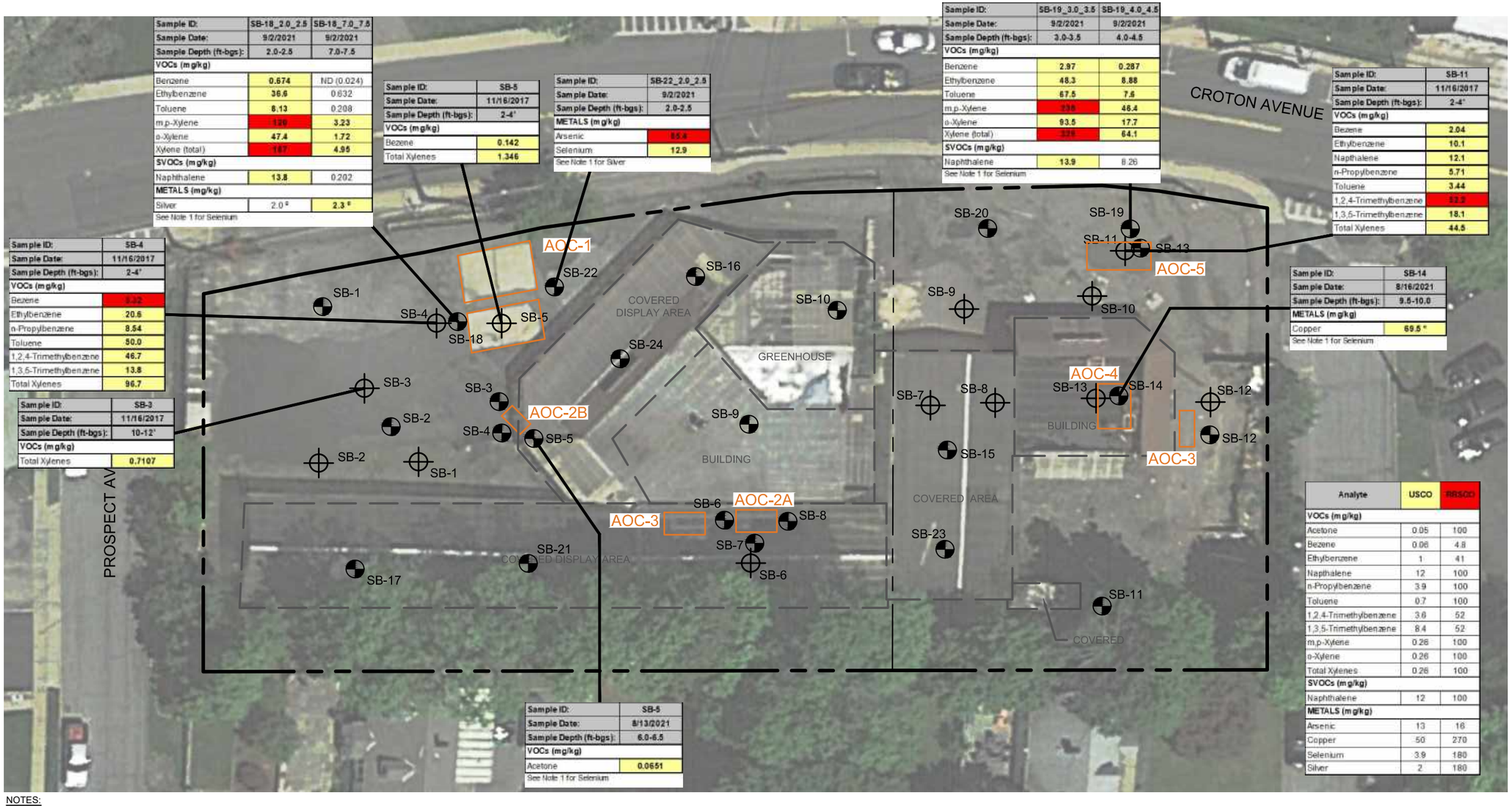
PHASE II
136-140 CROTON AVENUE
OSSINING, NEW YORK 10652

SAMPLE LOCATION MAP

job no: 12060
drawing no:

FIG-1.4

N:\ACAD\12060\CAD\PHASE II\12060 – FIG–1.4 – SAMPLE LOCATION PLAN.DWG 10/29/21 12:24:03PM, aas, LAYOUT:FIG–1.4



Sample ID:	SB-18_2.0_2.5	SB-18_7.0_7.5
Sample Date:	9/2/2021	9/2/2021
Sample Depth (ft-bgs):	2.0-2.5	7.0-7.5
VOCs (mg/kg)		
Benzene	0.674	ND (0.024)
Ethylbenzene	36.6	0.632
Toluene	8.13	0.208
m,p-Xylene	126	3.23
o-Xylene	47.4	1.72
Xylene (total)	167	4.95
SVOCs (mg/kg)		
Naphthalene	13.8	0.202
METALS (mg/kg)		
Silver	2.0 e	2.3 e

See Note 1 for Selenium

Sample ID:	SB-5
Sample Date:	11/16/2017
Sample Depth (ft-bgs):	2-4'
VOCs (mg/kg)	
Bezene	0.142
Total Xylenes	1.346

Sample ID:	SB-22_2.0_2.5
Sample Date:	9/2/2021
Sample Depth (ft-bgs):	2.0-2.5
METALS (mg/kg)	
Arsenic	85.4
Selenium	12.9

See Note 1 for Silver

Sample ID:	SB-19_3.0_3.5	SB-19_4.0_4.5
Sample Date:	9/2/2021	9/2/2021
Sample Depth (ft-bgs):	3.0-3.5	4.0-4.5
VOCs (mg/kg)		
Benzene	2.97	0.287
Ethylbenzene	48.3	8.88
Toluene	67.5	7.5
m,p-Xylene	236	46.4
o-Xylene	93.5	17.7
Xylene (total)	329	64.1
SVOCs (mg/kg)		
Naphthalene	13.9	8.26

See Note 1 for Selenium

Sample ID:	SB-11
Sample Date:	11/16/2017
Sample Depth (ft-bgs):	2-4'
VOCs (mg/kg)	
Bezene	2.04
Ethylbenzene	10.1
Napthalene	12.1
n-Propylbenzene	5.71
Toluene	3.44
1,2,4-Trimethylbenzene	53.2
1,3,5-Trimethylbenzene	18.1
Total Xylenes	44.5

Sample ID:	SB-4
Sample Date:	11/16/2017
Sample Depth (ft-bgs):	2-4'
VOCs (mg/kg)	
Bezene	5.32
Ethylbenzene	20.6
n-Propylbenzene	8.54
Toluene	50.0
1,2,4-Trimethylbenzene	46.7
1,3,5-Trimethylbenzene	13.8
Total Xylenes	96.7

Sample ID:	SB-3
Sample Date:	11/16/2017
Sample Depth (ft-bgs):	10-12'
VOCs (mg/kg)	
Total Xylenes	0.7107

Sample ID:	SB-14
Sample Date:	8/16/2021
Sample Depth (ft-bgs):	9.5-10.0
METALS (mg/kg)	
Copper	69.5 *

See Note 1 for Selenium

Sample ID:	SB-5
Sample Date:	8/13/2021
Sample Depth (ft-bgs):	6.0-6.5
VOCs (mg/kg)	
Acetone	0.0651

See Note 1 for Selenium

Analyte	USCO	RRSCO
VOCs (mg/kg)		
Acetone	0.05	100
Bezene	0.06	4.8
Ethylbenzene	1	41
Napthalene	12	100
n-Propylbenzene	3.9	100
Toluene	0.7	100
1,2,4-Trimethylbenzene	3.6	52
1,3,5-Trimethylbenzene	8.4	52
m,p-Xylene	0.26	100
o-Xylene	0.26	100
Total Xylenes	0.26	100
SVOCs (mg/kg)		
Naphthalene	12	100
METALS (mg/kg)		
Arsenic	13	16
Copper	50	270
Selenium	3.9	180
Silver	2	180

NOTES:
1. mg/kg = MILLIGRAMS PER KILOGRAM
2. ft-bgs = FEET BELOW GRADE SURFACE
3. - = NO SOIL CLEANUP OBJECTIVE ESTABLISHED
4. ND = NOT DETECTED
5. USCO = NY UNRESTRICTED USE SOIL CLEANUP OBJECTIVES (6 NYCRR 375-6 12/06)
6. RRSCO = NY RESTRICTED RESIDENTIAL USE SOIL CLEANUP OBJECTIVES w/CP-51 (10/10)(6 NYCRR 375-6 12/06)
7. e = ASSOCIATED CCV OUTSIDE OF CONTROL LIMITS LOW. LOW-LEVEL VERIFICATION WAS ANALYZED TO DEMONSTRATE SYSTEM SUITABILITY TO DETECT AFFECTED ANALYTES. ESTIMATED VALUE, DUE TO CORRESPONDING FAILURE IN THE BATCH ASSOCIATED CCV.
8. BUILDING DEPICTS FORMER FEATURES. SITE CURRENTLY VACANT.
9. g = ELEVATED DETECTION LIMIT DUE TO DILUTION REQUIRED FOR HIGH INTERFERING ELEMENT.
10. 1 = ELEVATED DETECTION LIMIT OVER USCO'S DUE TO DILUTION REQUIRED FOR HIGH INTERFERING ELEMENT.

LEGEND:

- SITE BOUNDARY
- FORMER BUILDING OUTLINE
- 2017 BERKSHIRE INVESTIGATION
- SOIL BORINGS NUMBER & APPROX. LOCATION
- APPROX. LOCATION OF AOC
- CONCENTRATION EXCEEDS USCO (0.0651)
- CONCENTRATION EXCEEDS RRSCO (5.32)

AOC NOTES:
1. BUILDING LINES DEPICT FORMER FEATURES. SITE CURRENTLY VACANT.
2. AREAS OF CONCERN (AOC's) ARE NOTED BASED ON BORINGS COLLECTED IN THE BERKSHIRE ENVIRONMENTAL SERVICES TECHNOLOGY LLC PHASE II INVESTIGATION IN 2017.
3. AOC's ARE APPROXIMATE LOCATIONS AND NOT CLEARLY IDENTIFIED IN 2017.

AOC-1 - HISTORIC FILLING STATION PADS AND UNDERGROUND STORAGE TANK (UST) REMOVAL AREA
AOC-2A - POTENTIAL UST GPR ANOMOLY 1
AOC-2B - POTENTIAL UST GPR ANOMOLY 2
AOC-3 - HISTORIC ABOVEGROUND STORAGE TANK (AST)
AOC-4 - HISTORIC HYDRAULIC LIFT AREA
AOC-5 - HISTORIC UST REMOVAL AREA

Scale 1"=30'
0 30 60

REFERENCE
AERIAL IMAGE TAKEN FROM GOOGLE MAPS, IMAGE DATED 2019.

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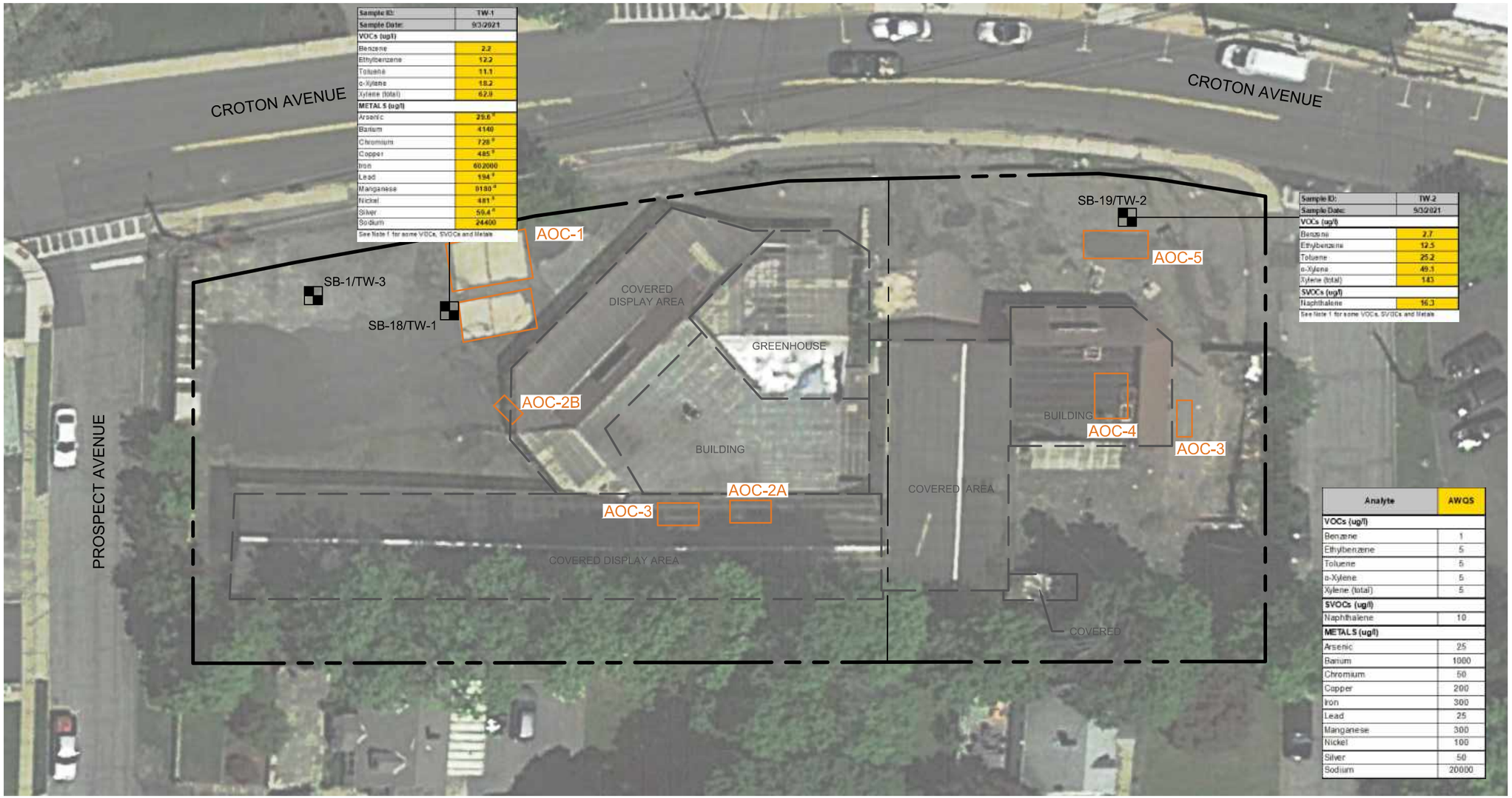
PHASE II
136-140 CROTON AVENUE
OSSINING, NEW YORK 10652

SOIL SAMPLE LOCATION & RESULTS MAP

job no: 12060
drawing no:

FIG-1.5

N:\ACAD\12060\CAD\PHASE II\2021-10-13\12060 - FIG-1.5 - SOIL SAMPLE LOCATIONS & RESULTS MAP.DWG 10/29/21 12:24:20PM, aas, LAYOUT:FIG-1.5



Sample ID:	TW-1
Sample Date:	9/3/2021
VOCs (ug/l)	
Benzene	2.2
Ethylbenzene	12.2
Toluene	11.1
o-Xylene	18.2
Xylene (total)	62.8
METALS (ug/l)	
Arsenic	28.6 [d]
Barium	4140
Chromium	726 [d]
Copper	485 [d]
Iron	60,2000
Lead	194 [d]
Manganese	8180 [d]
Nickel	481 [d]
Silver	58.4 [d]
Sodium	24400

See Note 1 for some VOCs, SVOCs and Metals

Sample ID:	TW-2
Sample Date:	9/3/2021
VOCs (ug/l)	
Benzene	2.7
Ethylbenzene	12.5
Toluene	25.2
o-Xylene	49.1
Xylene (total)	143
SVOCs (ug/l)	
Naphthalene	16.3

See Note 1 for some VOCs, SVOCs and Metals

Analyte	AWQS
VOCs (ug/l)	
Benzene	1
Ethylbenzene	5
Toluene	5
o-Xylene	5
Xylene (total)	5
SVOCs (ug/l)	
Naphthalene	10
METALS (ug/l)	
Arsenic	25
Barium	1000
Chromium	50
Copper	200
Iron	300
Lead	25
Manganese	300
Nickel	100
Silver	50
Sodium	20000

NOTES:
- NYSDEC = NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
- AWQS = AMBIENT WATER QUALITY STANDARDS
- ug/L = MICROGRAMS PER LITER
- NT = NOT TESTED
- 1 = DETECTION LIMIT EXCEEDS AWQS FOR SOME VOC's, SVOC's AND METALS
- d = ELEVATED DETECTION LIMIT DUE TO DILUTION REQUIRED FOR HIGH INTERFERING ELEMENT

LEGEND:

- SITE BOUNDARY
- FORMER BUILDING OUTLINE
- APPROX. LOCATION OF AOC
- APPROX. LOCATION OF TEMPORARY WELL & SOIL BORING
- 2.7 - CONCENTRATION OF COMPOUND EXCEEDS THE NY TOG's CLASS GA GW OR ASSOCIATED GUIDANCE (NOTED AS AWQS)

AOC NOTES:
1. BUILDING LINES DEPICT FORMER FEATURES. SITE CURRENTLY VACANT.
2. AREAS OF CONCERN (AOC's) ARE NOTED BASED ON BORINGS COLLECTED IN THE BERKSHIRE ENVIRONMENTAL SERVICES TECHNOLOGY LLC PHASE II INVESTIGATION IN 2017.
3. AOC's ARE APPROXIMATE LOCATIONS AND NOT CLEARLY IDENTIFIED IN 2017.

AOC-1 - HISTORIC FILLING STATION PADS AND UNDERGROUND STORAGE TANK (UST) REMOVAL AREA
AOC-2A - POTENTIAL UST GPR ANOMOLY 1
AOC-2B - POTENTIAL UST GPR ANOMOLY 2
AOC-3 - HISTORIC ABOVEGROUND STORAGE TANK (AST)
AOC-4 - HISTORIC HYDRAULIC LIFT AREA
AOC-5 - HISTORIC UST REMOVAL AREA

Scale 1"=30'

0 30 60

REFERENCE
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date: 10/13/2021

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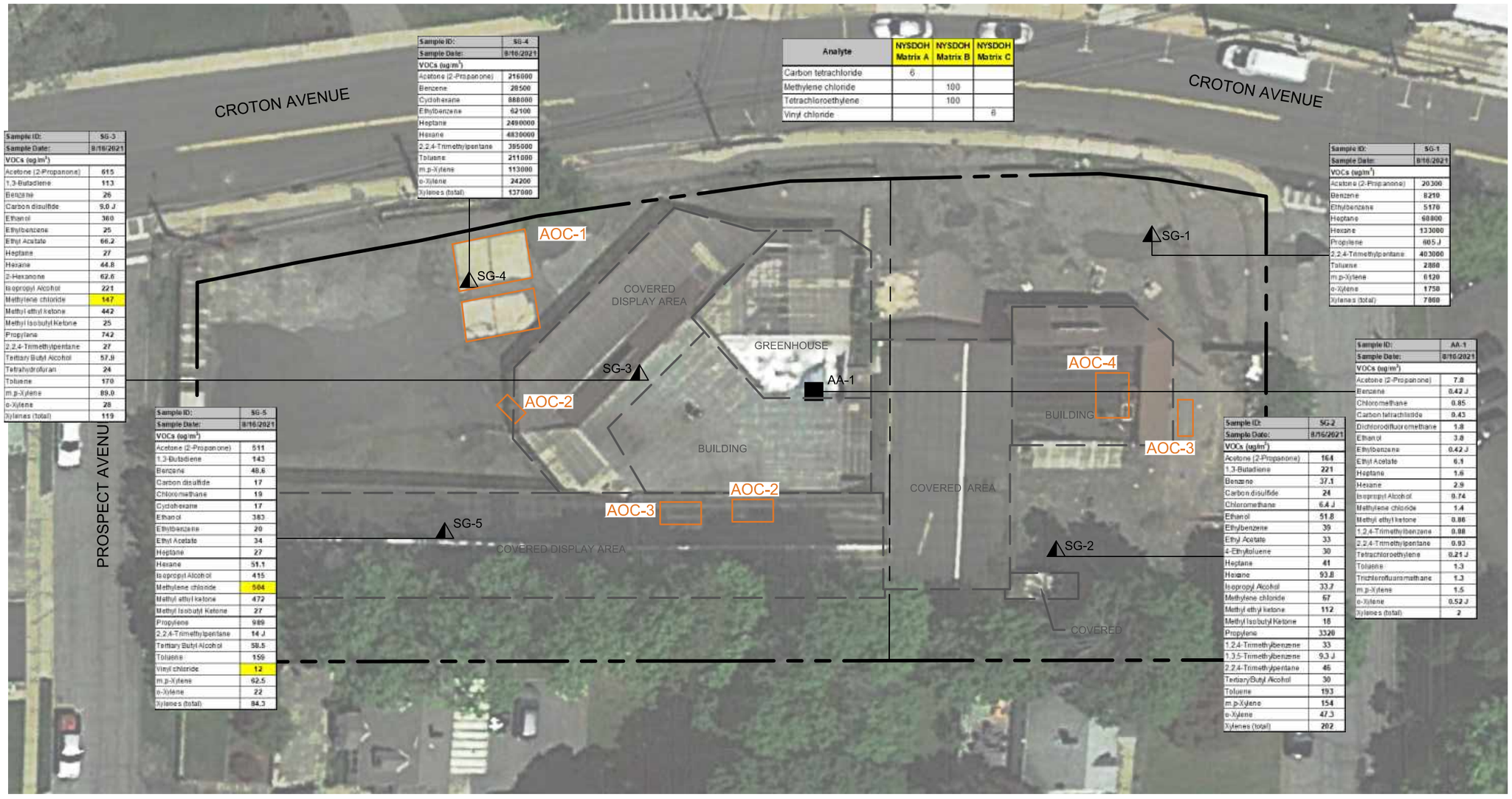
PHASE II
136-140 CROTON AVENUE
OSSINING, NEW YORK 10652

GROUNDWATER SAMPLE LOCATION & RESULTS MAP

job no: 12060
drawing no:

FIG-3.1

N:\ACAD\12060\CAD\PHASE II\2021-10-13\12060 - FIG-3.1 - GROUNDWATER SAMPLE & RESULTS MAP.DWG 10/29/21 12:24:34PM, aas, LAYOUT:FIG-3.1



Sample ID:	SG-3
Sample Date:	8/16/2021
VOCs (ug/m³)	
Acetone (2-Propanone)	615
1,3-Butadiene	113
Benzene	26
Carbon disulfide	9.0 J
Ethanol	360
Ethylbenzene	25
Ethyl Acetate	66.2
Heptane	27
Hexane	44.8
2-Hexanone	62.6
Isopropyl Alcohol	221
Methylene chloride	147
Methyl ethyl ketone	442
Methyl Isobutyl Ketone	25
Propylene	742
2,2,4-Trimethylpentane	27
Tertiary Butyl Alcohol	57.8
Tetrahydrofuran	24
Toluene	170
m,p-Xylene	89.0
o-Xylene	28
Xylenes (total)	119

Sample ID:	SG-4
Sample Date:	8/16/2021
VOCs (ug/m³)	
Acetone (2-Propanone)	216000
Benzene	20500
Cyclohexane	888000
Ethylbenzene	62100
Heptane	2490000
Hexane	4830000
2,2,4-Trimethylpentane	395000
Toluene	251000
m,p-Xylene	113000
o-Xylene	24200
Xylenes (total)	137000

Sample ID:	SG-5
Sample Date:	8/16/2021
VOCs (ug/m³)	
Acetone (2-Propanone)	511
1,3-Butadiene	143
Benzene	48.6
Carbon disulfide	17
Chloromethane	19
Cyclohexane	17
Ethanol	383
Ethylbenzene	20
Ethyl Acetate	34
Heptane	27
Hexane	51.1
Isopropyl Alcohol	415
Methylene chloride	504
Methyl ethyl ketone	472
Methyl Isobutyl Ketone	27
Propylene	989
2,2,4-Trimethylpentane	14 J
Tertiary Butyl Alcohol	58.5
Toluene	159
Vinyl chloride	12
m,p-Xylene	62.5
o-Xylene	22
Xylenes (total)	84.3

Analyte	NYSDOH Matrix A	NYSDOH Matrix B	NYSDOH Matrix C
Carbon tetrachloride	6		
Methylene chloride		100	
Tetrachloroethylene		100	
Vinyl chloride			6

Sample ID:	SG-1
Sample Date:	8/16/2021
VOCs (ug/m³)	
Acetone (2-Propanone)	20300
Benzene	8210
Ethylbenzene	5170
Heptane	68800
Hexane	133000
Propylene	605 J
2,2,4-Trimethylpentane	403000
Toluene	2880
m,p-Xylene	6120
o-Xylene	1750
Xylenes (total)	7860

Sample ID:	SG-2
Sample Date:	8/16/2021
VOCs (ug/m³)	
Acetone (2-Propanone)	164
1,3-Butadiene	221
Benzene	37.1
Carbon disulfide	24
Chloromethane	6.4 J
Ethanol	51.8
Ethylbenzene	39
Ethyl Acetate	33
4-Ethyltoluene	30
Heptane	41
Hexane	93.8
Isopropyl Alcohol	33.7
Methylene chloride	57
Methyl ethyl ketone	112
Methyl Isobutyl Ketone	18
Propylene	3320
1,2,4-Trimethylbenzene	33
1,3,5-Trimethylbenzene	9.3 J
2,2,4-Trimethylpentane	46
Tertiary Butyl Alcohol	30
Toluene	193
m,p-Xylene	154
o-Xylene	47.3
Xylenes (total)	202

Sample ID:	AA-1
Sample Date:	8/16/2021
VOCs (ug/m³)	
Acetone (2-Propanone)	7.8
Benzene	0.42 J
Chloromethane	0.85
Carbon tetrachloride	0.43
Dichlorodifluoromethane	1.8
Ethanol	3.8
Ethylbenzene	0.42 J
Ethyl Acetate	6.1
Heptane	1.6
Hexane	2.9
Isopropyl Alcohol	0.74
Methylene chloride	1.4
Methyl ethyl ketone	0.86
1,2,4-Trimethylbenzene	0.88
2,2,4-Trimethylpentane	0.93
Tetrachloroethylene	0.21 J
Toluene	1.3
Trichlorofluoromethane	1.3
m,p-Xylene	1.5
o-Xylene	0.52 J
Xylenes (total)	2

NOTES:
1. NYSDOH MATRIX A - NYSDOH MATRIX A SUB-SLAB VAPOR CONCENTRATION CRITERIA LOWER THRESHOLD
2. NYSDOH MATRIX B - NYSDOH MATRIX B SUB-SLAB VAPOR CONCENTRATION CRITERIA LOWER THRESHOLD
3. NYSDOH MATRIX C - NYSDOH MATRIX C SUB-SLAB VAPOR CONCENTRATION CRITERIA LOWER THRESHOLD
4. J = ESTIMATED VALUE
5. ug/m3 = MICROGRAMS PER CUBIC METER
6. **Bolded** - COMPOUND WAS DETECTED
7. BUILDING DEPICTS FORMER FEATURES. SITE CURRENTLY VACANT.

LEGEND:
- SITE BOUNDARY
- FORMER BUILDING OUTLINE
- PROPOSED SOIL GAS POINTS NUMBER & APPROX. LOCATION
- AMBIENT AIR POINT
- APPROX. LOCATION OF AOC
- 504 - CONCENTRATION OF COMPOUND EXCEEDS THE NYSDOH MATRIX A SUB-SLAB VAPOR CONCENTRATION CRITERIA

AOC NOTES:
1. BUILDING LINES DEPICT FORMER FEATURES. SITE CURRENTLY VACANT.
2. AREAS OF CONCERN (AOC's) ARE NOTED BASED ON BORINGS COLLECTED IN THE BERKSHIRE ENVIRONMENTAL SERVICES TECHNOLOGY LLC PHASE II INVESTIGATION IN 2017.
3. AOC's ARE APPROXIMATE LOCATIONS AND NOT CLEARLY IDENTIFIED IN 2017.

AOC-1 - HISTORIC FILLING STATION PADS AND UNDERGROUND STORAGE TANK (UST) REMOVAL AREA
AOC-2A - POTENTIAL UST GPR ANOMOLY 1
AOC-2B - POTENTIAL UST GPR ANOMOLY 2
AOC-3 - HISTORIC ABOVEGROUND STORAGE TANK (AST)
AOC-4 - HISTORIC HYDRAULIC LIFT AREA
AOC-5 - HISTORIC UST REMOVAL AREA

Scale 1"=30'
0 30 60

REFERENCE
AERIAL IMAGE TAKEN FROM GOOGLE MAPS, IMAGE DATED 2019.

NYS Education Law
Unauthorized alterations or additions to this plan are a violation of section 7209 (2) of the New York State Education Law. Copies of this map not having the seal of the engineer shall not be valid.

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SESI CONSULTING ENGINEERS D.P.C.
SOILS / FOUNDATIONS
SITE DESIGN
ENVIRONMENTAL
12A MAPLE AVE. PINE BROOK, N.J. 07058 PH: 973-808-9050

dwg by: aas
chk by: CCM
scale: AS NOTED
date: 09/01/2021

PHASE II
136-140 CROTON AVENUE
OSSINING, NEW YORK 10652

SOIL GAS & AMBIENT AIR SAMPLE LOCATION & RESULTS MAP

job no: 12060
drawing no:

FIG-3.2

N:\ACAD\12060\CAD\PHASE II\12060 – FIG-3.2 – SSSG & AMBIENT AIR SAMPLE LOCATION & RESULTS MAP.DWG 10/29/21 12:24:54PM, gas, LAYOUT:FIG-3.2

Tables

Table 3.1 - Soil Analytical Table
August 13 - September 3, 2021
136-140 Croton Avenue, Ossining, NY
Project No. 12060
SESI Consulting Engineers

Client Sample ID:		USCO	RRSCO	SB-1 (6-6.5)	SB-2 (4.5-5.0)	SB-3 (6-6.5)	SB-5 (6-6.5)	SB-6 (9.5-10.0)	SB-8 (9.5-10.0)	SB-9 (7.5-8.0)	SB-10 (7.5-8.0)	SB-11(4.5-5.0)	SB-12(1.0-1.5)	SB-14(9.5-10.0)	SB-15(2.5-3.5)
Lab Sample ID:				JD29923-1	JD29923-2	JD29923-3	JD29923-4	JD29923-5	JD29923-6	JD29923-7	JD29923-8	JD30019-1	JD30019-2	JD30019-3	JD30019-4
Date Sampled:				8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/16/2021	8/16/2021	8/16/2021	8/16/2021
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Depth:	Units			6-6.5'	4.5-5.0'	6-6.5'	6-6.5'	9.5-10.0'	9.5-10.0'	7.5-8.0'	7.5-8.0'	4.5-5.0'	1.0-1.5'	9.5-10.0'	2.5-3.5'
MS Volatiles (SW846 8260D)															
Acetone	mg/kg	0.05	100	ND (0.0054)	0.0071 J	0.0061 J	**0.0651**	0.0053 J	ND (0.0051)	ND (0.0040)	ND (0.0048)	ND (0.0037)	ND (0.0050)	0.0285	ND (0.0037)
Benzene	mg/kg	0.06	4.8	ND (0.00059)	ND (0.00061)	ND (0.00041)	ND (0.00052)	ND (0.00042)	ND (0.00057)	ND (0.00044)	ND (0.00052)	ND (0.00041)	ND (0.00055)	0.00087	ND (0.00040)
Bromochloromethane	mg/kg	-	-	ND (0.00073)	ND (0.00075)	ND (0.00051)	ND (0.00064)	ND (0.00051)	ND (0.00070)	ND (0.00054)	ND (0.00064)	ND (0.00051)	ND (0.00068)	ND (0.00076)	ND (0.00050)
Bromodichloromethane	mg/kg	-	-	ND (0.00056)	ND (0.00057)	ND (0.00039)	ND (0.00049)	ND (0.00039)	ND (0.00053)	ND (0.00041)	ND (0.00049)	ND (0.00039)	ND (0.00052)	ND (0.00058)	ND (0.00038)
Bromoform	mg/kg	-	-	ND (0.0018)	ND (0.0018)	ND (0.0012)	ND (0.0015)	ND (0.0012)	ND (0.0017)	ND (0.0013)	ND (0.0016)	ND (0.0012)	ND (0.0017)	ND (0.0019)	ND (0.0012)
Bromomethane	mg/kg	-	-	ND (0.0010)	ND (0.0010)	ND (0.00070)	ND (0.00087)	ND (0.00070)	ND (0.00095)	ND (0.00074)	ND (0.00088) [a]	ND (0.00069)	ND (0.00093)	ND (0.0010)	ND (0.00068)
2-Butanone (MEK)	mg/kg	0.12	100	ND (0.0032)	ND (0.0032)	ND (0.0022)	0.0097 J	ND (0.0022)	ND (0.0030)	ND (0.0023) [c]	ND (0.0028)	ND (0.0022) [c]	ND (0.0030) [c]	ND (0.0033)	ND (0.0022) [c]
Carbon disulfide	mg/kg	-	-	ND (0.00070)	ND (0.00071)	ND (0.00049)	0.00066 J	0.00052 J	ND (0.00067)	ND (0.00052)	ND (0.00061)	ND (0.00048)	ND (0.00065)	0.0047	ND (0.00048)
Carbon tetrachloride	mg/kg	0.76	2.4	ND (0.00081)	ND (0.00082)	ND (0.00056)	ND (0.00070)	ND (0.00057)	ND (0.00077)	ND (0.00060)	ND (0.00071)	ND (0.00056)	ND (0.00075)	ND (0.00084)	ND (0.00055)
Chlorobenzene	mg/kg	1.1	100	ND (0.00060)	ND (0.00061)	ND (0.00042)	ND (0.00052)	ND (0.00042)	ND (0.00057)	ND (0.00044)	ND (0.00053)	ND (0.00041)	ND (0.00056)	ND (0.00062)	ND (0.00041)
Chloroethane	mg/kg	-	-	ND (0.00077)	ND (0.00079)	ND (0.00054)	ND (0.00067)	ND (0.00054)	ND (0.00073)	ND (0.00057)	ND (0.00068)	ND (0.00053)	ND (0.00072)	ND (0.00080)	ND (0.00053)
Chloroform	mg/kg	0.37	49	ND (0.00068)	ND (0.00069)	ND (0.00047)	ND (0.00059)	ND (0.00048)	ND (0.00065)	ND (0.00050)	ND (0.00060)	ND (0.00047)	ND (0.00063)	ND (0.00071)	ND (0.00046)
Chloromethane	mg/kg	-	-	ND (0.0026)	ND (0.0026)	ND (0.0018)	ND (0.0022)	ND (0.0018)	ND (0.0024)	ND (0.0019)	ND (0.0023)	ND (0.0018)	ND (0.0024)	ND (0.0027)	ND (0.0017)
Cyclohexane	mg/kg	-	-	ND (0.00086)	ND (0.00088)	ND (0.00060)	ND (0.00075)	ND (0.00060)	ND (0.00082)	ND (0.00063)	ND (0.00075)	ND (0.00059)	ND (0.00080)	ND (0.00089)	ND (0.00058)
1,2-Dibromo-3-chloropropane	mg/kg	-	-	ND (0.00090)	ND (0.00092)	ND (0.00063)	ND (0.00079)	ND (0.00064)	ND (0.00086)	ND (0.00067)	ND (0.00080)	ND (0.00063)	ND (0.00084)	ND (0.00094)	ND (0.00062)
Dibromochloromethane	mg/kg	-	-	ND (0.00073)	ND (0.00075)	ND (0.00051)	ND (0.00064)	ND (0.00051)	ND (0.00070)	ND (0.00054)	ND (0.00064)	ND (0.00051)	ND (0.00068)	ND (0.00076)	ND (0.00050)
1,2-Dibromoethane	mg/kg	-	-	ND (0.00055)	ND (0.00056)	ND (0.00038)	ND (0.00048)	ND (0.00039)	ND (0.00052)	ND (0.00041)	ND (0.00048)	ND (0.00038)	ND (0.00051)	ND (0.00057)	ND (0.00037)
1,2-Dichlorobenzene	mg/kg	1.1	100	ND (0.00071)	ND (0.00073)	ND (0.00050)	ND (0.00062)	ND (0.00050)	ND (0.00068)	ND (0.00053)	ND (0.00063)	ND (0.00049)	ND (0.00066)	ND (0.00074)	ND (0.00049)
1,3-Dichlorobenzene	mg/kg	2.4	49	ND (0.00065)	ND (0.00066)	ND (0.00045)	ND (0.00056)	ND (0.00045)	ND (0.00062)	ND (0.00048)	ND (0.00057)	ND (0.00045)	ND (0.00060)	ND (0.00067)	ND (0.00044)
1,4-Dichlorobenzene	mg/kg	1.8	13	ND (0.00064)	ND (0.00066)	ND (0.00045)	ND (0.00056)	ND (0.00045)	ND (0.00061)	ND (0.00048)	ND (0.00057)	ND (0.00045)	ND (0.00060)	0.00067 J	ND (0.00044)
Dichlorodifluoromethane	mg/kg	-	-	ND (0.00095) [a]	ND (0.00097) [a]	ND (0.00066) [a]	ND (0.00083) [a]	ND (0.00067) [a]	ND (0.00090) [a]	ND (0.00070)	ND (0.00084) [a]	ND (0.00066)	ND (0.00088)	ND (0.00099) [a]	ND (0.00065)
1,1-Dichloroethane	mg/kg	0.27	26	ND (0.00064)	ND (0.00066)	ND (0.00045)	ND (0.00056)	ND (0.00045)	ND (0.00062)	ND (0.00048)	ND (0.00057)	ND (0.00045)	ND (0.00060)	ND (0.00067)	ND (0.00044)
1,2-Dichloroethane	mg/kg	0.02	3.1	ND (0.00061)	ND (0.00063)	ND (0.00043)	ND (0.00053)	ND (0.00043)	ND (0.00058)	ND (0.00045)	ND (0.00054)	ND (0.00042)	ND (0.00057)	ND (0.00064)	ND (0.00042)
1,1-Dichloroethene	mg/kg	0.33	100	ND (0.00085)	ND (0.00087)	ND (0.00060)	ND (0.00074)	ND (0.00060)	ND (0.00081)	ND (0.00063)	ND (0.00075)	ND (0.00059)	ND (0.00080)	ND (0.00089)	ND (0.00058)
cis-1,2-Dichloroethene	mg/kg	0.25	100	ND (0.0011)	ND (0.0011)	ND (0.00076)	ND (0.00096)	ND (0.00077)	ND (0.0010)	ND (0.00081)	ND (0.00097)	ND (0.00076)	ND (0.0010)	ND (0.0011)	ND (0.00075)
trans-1,2-Dichloroethene	mg/kg	0.19	100	ND (0.00080)	ND (0.00081)	ND (0.00056)	ND (0.00069)	ND (0.00056)	ND (0.00076)	ND (0.00059)	ND (0.00070)	ND (0.00055)	ND (0.00074)	ND (0.00083)	ND (0.00054)
1,2-Dichloropropane	mg/kg	-	-	ND (0.00062)	ND (0.00063)	ND (0.00043)	ND (0.00054)	ND (0.00043)	ND (0.00059)	ND (0.00046)	ND (0.00054)	ND (0.00043)	ND (0.00058)	ND (0.00064)	ND (0.00042)
cis-1,3-Dichloropropene	mg/kg	-	-	ND (0.00062)	ND (0.00063)	ND (0.00043)	ND (0.00054)	ND (0.00044)	ND (0.00059)	ND (0.00046)	ND (0.00055)	ND (0.00043)	ND (0.00058)	ND (0.00065)	ND (0.00042)
trans-1,3-Dichloropropene	mg/kg	-	-	ND (0.00060)	ND (0.00061)	ND (0.00042)	ND (0.00052)	ND (0.00042)	ND (0.00057)	ND (0.00044) [c]	ND (0.00053)	ND (0.00041) [c]	ND (0.00056) [c]	ND (0.00062)	ND (0.00041) [c]
Ethylbenzene	mg/kg	1	41	ND (0.00059)	ND (0.00060)	ND (0.00041)	ND (0.00052)	ND (0.00042)	ND (0.00056)	ND (0.00044)	ND (0.00052)	ND (0.00041)	ND (0.00055)	ND (0.00062)	ND (0.00040)
Freon 113	mg/kg	-	-	ND (0.0035)	ND (0.0036)	ND (0.0024)	ND (0.0030)	ND (0.0024)	ND (0.0033)	ND (0.0026)	ND (0.0031)	ND (0.0024)	ND (0.0032)	ND (0.0036)	ND (0.0024)
2-Hexanone	mg/kg	-	-	ND (0.0028)	ND (0.0028)	ND (0.0019)	ND (0.0024)	ND (0.0019)	ND (0.0026)	ND (0.0020)	ND (0.0024)	ND (0.0019)	ND (0.0026)	ND (0.0029)	ND (0.0019)
Isopropylbenzene	mg/kg	-	-	ND (0.0019)	ND (0.0019)	ND (0.0013)	ND (0.0016)	ND (0.0013)	ND (0.0018)	ND (0.0014)	ND (0.0016)	ND (0.0013)	ND (0.0017)	ND (0.0019)	ND (0.0013)
Methyl Acetate	mg/kg	-	-	ND (0.0018)	ND (0.0019)	ND (0.0013)	ND (0.0016)	ND (0.0013)	ND (0.0017)	ND (0.0013)	ND (0.0016)	ND (0.0013)	ND (0.0017)	ND (0.0019)	ND (0.0012)
Methylcyclohexane	mg/kg	-	-	ND (0.0011)	ND (0.0012)	ND (0.00080)	ND (0.0010)	ND (0.00080)	ND (0.0011)	ND (0.00085)	ND (0.0010)	ND (0.00079)	ND (0.0011)	0.0012 J	ND (0.00078)
Methyl Tert Butyl Ether	mg/kg	0.93	100	ND (0.00061)	ND (0.00062)	ND (0.00043)	ND (0.00053)	ND (0.00043)	ND (0.00058)	ND (0.00045) [c]	ND (0.00054)	ND (0.00042) [c]	ND (0.00057) [c]	0.002	ND (0.00042) [c]
4-Methyl-2-pentanone(MIBK)	mg/kg	-	-	ND (0.0030)	ND (0.0030)	ND (0.0021)	ND (0.0026)	ND (0.0021)	ND (0.0028)	ND (0.0022)	ND (0.0026)	ND (0.0021)	ND (0.0028)	ND (0.0031)	ND (0.0020)
Methylene chloride	mg/kg	0.05	100	ND (0.0034)	ND (0.0035)	ND (0.0024)	ND (0.0030)	ND (0.0024)	ND (0.0032)	ND (0.0025)	ND (0.0030)	ND (0.0024)	ND (0.0032)	0.0055 J	ND (0.0023)
Styrene	mg/kg	-	-	ND (0.00052)	ND (0.00054)	ND (0.00037)	ND (0.00046)	ND (0.00037)	ND (0.00050)	ND (0.00039)	ND (0.00046)	ND (0.00036)	ND (0.00049)	ND (0.00055)	ND (0.00036)
1,1,2,2-Tetrachloroethane	mg/kg	-	-	ND (0.00078)	ND (0.00080)	ND (0.00054)	ND (0.00068)	ND (0.00055)	ND (0.00074)	ND (0.00058)	ND (0.00069)	ND (0.00054)	ND (0.00073)	ND (0.00081)	ND (0.00053)
Tetrachloroethene	mg/kg	1.3	19	ND (0.00076)	ND (0.00077)	ND (0.00053)	ND (0.00066)	ND (0.00053)	ND (0.00072)	ND (0.00056)	ND (0.00067)	ND (0.00052)	ND (0.00071)	ND (0.00079)	ND (0.00052)
Toluene	mg/kg	0.7	100	ND (0.00068)	ND (0.00070)	ND (0.00048)	ND (0.00060)	ND (0.00048)	ND (0.00065)	ND (0.00051)	ND (0.00060)	ND (0.00047)	ND (0.00064)	0.0012 J	ND (0.00047)
1,2,3-Trichlorobenzene	mg/kg	-	-	ND (0.0033)	ND (0.0033)	ND (0.0023)	ND (0.0028)	ND (0.0023)	ND (0.0031)	ND (0.0024)	ND (0.0029)	ND (0.0023)	ND (0.0030)	ND (0.0034)	ND (0.0022)
1,2,4-Trichlorobenzene	mg/kg	-	-	ND (0.0033)	ND (0.0033)	ND (0.0023)	ND (0.0028)	ND (0.0023)	ND (0.0031)	ND (0.0024)	ND (0.0029)	ND (0.0023)	ND (0.0030)	ND (0.0034)	ND (0.0022)
1,1,1-Trichloroethane	mg/kg	0.68	100	ND (0.00063)	ND (0.00064)	ND (0.00044)	ND (0.00055)	ND (0.00044)	ND (0.00060)	ND (0.00047)	ND (0.00056)	ND (0.00044)	ND (0.00059)	ND (0.00066)	ND (0.00043)
1,1,2-Trichloroethane	mg/kg	-	-	ND (0.00072)	ND (0.00074)	ND (0.00050)	ND (0.00063)	ND (0.00051)	ND (0.00069)	ND (0.00054)	ND (0.00064)	ND (0.00050)	ND (0.00067)	ND (0.00075)	ND (0.00049)

Table 3.1 - Soil Analytical Table
August 13 - September 3, 2021
136-140 Croton Avenue, Ossining, NY
Project No. 12060
SESI Consulting Engineers

Client Sample ID:		USCO	RRSCO	SB-1 (6-6.5)	SB-2 (4.5-5.0)	SB-3 (6-6.5)	SB-5 (6-6.5)	SB-6 (9.5-10.0)	SB-8 (9.5-10.0)	SB-9 (7.5-8.0)	SB-10 (7.5-8.0)	SB-11(4.5-5.0)	SB-12(1.0-1.5)	SB-14(9.5-10.0)	SB-15(2.5-3.5)
Lab Sample ID:				JD29923-1	JD29923-2	JD29923-3	JD29923-4	JD29923-5	JD29923-6	JD29923-7	JD29923-8	JD30019-1	JD30019-2	JD30019-3	JD30019-4
Date Sampled:				8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/16/2021	8/16/2021	8/16/2021	8/16/2021
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Depth:	Units			6-6.5'	4.5-5.0'	6-6.5'	6-6.5'	9.5-10.0'	9.5-10.0'	7.5-8.0'	7.5-8.0'	4.5-5.0'	1.0-1.5'	9.5-10.0'	2.5-3.5'
Trichloroethene	mg/kg	0.47	21	ND (0.00099)	ND (0.0010)	ND (0.00069)	ND (0.00087)	ND (0.00070)	ND (0.00095)	ND (0.00074)	ND (0.00088)	ND (0.00069)	ND (0.00093)	ND (0.0010)	ND (0.00068)
Trichlorofluoromethane	mg/kg	-	-	ND (0.00089)	ND (0.00091)	ND (0.00062)	ND (0.00078)	ND (0.00063)	ND (0.00085)	ND (0.00066)	ND (0.00079)	ND (0.00062)	ND (0.00083)	ND (0.00093)	ND (0.00061)
Vinyl chloride	mg/kg	0.02	0.9	ND (0.00063)	ND (0.00064)	ND (0.00044)	ND (0.00055)	ND (0.00044)	ND (0.00060)	ND (0.00046)	ND (0.00055)	ND (0.00043)	ND (0.00059)	ND (0.00065)	ND (0.00043)
m,p-Xylene	mg/kg	0.26	100	ND (0.0012)	ND (0.0012)	ND (0.00082)	ND (0.0010)	ND (0.00082)	ND (0.0011)	ND (0.00087)	ND (0.0010)	ND (0.00081)	ND (0.0011)	0.0015	ND (0.00080)
o-Xylene	mg/kg	0.26	100	ND (0.00060)	ND (0.00061)	ND (0.00042)	ND (0.00052)	ND (0.00042)	ND (0.00057)	ND (0.00044)	ND (0.00053)	ND (0.00041)	ND (0.00056)	ND (0.00062)	ND (0.00041)
Xylene (total)	mg/kg	0.26	100	ND (0.00060)	ND (0.00061)	ND (0.00042)	ND (0.00052)	ND (0.00042)	ND (0.00057)	ND (0.00044)	ND (0.00053)	ND (0.00041)	ND (0.00056)	0.0015	ND (0.00041)
MS Volatile TIC															
Total TIC, Volatile	mg/kg	-	-	0	0	0	0	0	0	0	0	0	0	0	0
MS Semi-volatiles (SW846 8270E)															
2-Chlorophenol	mg/kg	-	-	ND (0.047)	ND (0.019)	ND (0.018)	ND (0.018)	ND (0.017)	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.034)	ND (0.018)	ND (0.017)
4-Chloro-3-methyl phenol	mg/kg	-	-	ND (0.058)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.042)	ND (0.022)	ND (0.021)
2,4-Dichlorophenol	mg/kg	-	-	ND (0.081)	ND (0.033)	ND (0.031)	ND (0.031)	ND (0.029)	ND (0.031)	ND (0.031)	ND (0.031)	ND (0.030)	ND (0.059)	ND (0.031)	ND (0.030)
2,4-Dimethylphenol	mg/kg	-	-	ND (0.17)	ND (0.068)	ND (0.065)	ND (0.064)	ND (0.062)	ND (0.064)	ND (0.065)	ND (0.065)	ND (0.064)	ND (0.12)	ND (0.065)	ND (0.062)
2,4-Dinitrophenol	mg/kg	-	-	ND (0.36)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.13)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.13)	ND (0.26)	ND (0.14)	ND (0.13)
4,6-Dinitro-o-cresol	mg/kg	-	-	ND (0.10)	ND (0.041)	ND (0.039)	ND (0.038)	ND (0.037)	ND (0.039)	ND (0.039)	ND (0.039)	ND (0.038)	ND (0.074)	ND (0.039)	ND (0.037)
2-Methylphenol	mg/kg	0.33	100	ND (0.060)	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.044)	0.0319 J	ND (0.022)
3&4-Methylphenol	mg/kg	-	-	ND (0.078)	ND (0.031)	ND (0.030)	ND (0.030)	ND (0.028)	ND (0.030)	ND (0.030)	ND (0.030)	ND (0.029)	ND (0.057)	ND (0.030)	ND (0.029)
2-Nitrophenol	mg/kg	-	-	ND (0.062)	ND (0.025)	ND (0.024)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.024)	ND (0.024)	ND (0.024)	ND (0.046)	ND (0.024)	ND (0.023)
4-Nitrophenol	mg/kg	-	-	ND (0.25)	ND (0.10)	ND (0.097)	ND (0.096)	ND (0.092)	ND (0.096)	ND (0.098)	ND (0.098)	ND (0.095)	ND (0.18)	ND (0.097)	ND (0.093)
Pentachlorophenol	mg/kg	0.8	6.7	ND (0.089)	ND (0.036)	ND (0.034)	ND (0.034)	ND (0.032)	ND (0.034)	ND (0.034)	ND (0.034)	ND (0.034)	ND (0.065)	ND (0.034)	ND (0.033)
Phenol	mg/kg	0.33	100	ND (0.049)	ND (0.020)	ND (0.019)	ND (0.019)	ND (0.018)	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.036)	ND (0.019)	ND (0.018)
2,3,4,6-Tetrachlorophenol	mg/kg	-	-	ND (0.063)	ND (0.025)	ND (0.024)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.024)	ND (0.024)	ND (0.024)	ND (0.046)	ND (0.024)	ND (0.023)
2,4,5-Trichlorophenol	mg/kg	-	-	ND (0.071)	ND (0.029)	ND (0.027)	ND (0.027)	ND (0.026)	ND (0.027)	ND (0.027)	ND (0.027)	ND (0.027)	ND (0.052)	ND (0.027)	ND (0.026)
2,4,6-Trichlorophenol	mg/kg	-	-	ND (0.056)	ND (0.023)	ND (0.022)	ND (0.021)	ND (0.021)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.041)	ND (0.022)	ND (0.021)
Acenaphthene	mg/kg	20	100	ND (0.033)	ND (0.013)	ND (0.013)	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.013)	ND (0.013)	ND (0.012)	ND (0.024)	ND (0.013)	ND (0.012)
Acenaphthylene	mg/kg	100	100	ND (0.048)	ND (0.019)	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.019)	ND (0.019)	ND (0.018)	ND (0.035)	ND (0.019)	ND (0.018)
Acetophenone	mg/kg	-	-	ND (0.020)	ND (0.0082)	ND (0.0078)	ND (0.0077)	ND (0.0074)	ND (0.0078)	ND (0.0079)	ND (0.0079)	ND (0.0077)	ND (0.015)	ND (0.0079)	ND (0.0075)
Anthracene	mg/kg	100	100	ND (0.058)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.042)	ND (0.022)	ND (0.021)
Atrazine	mg/kg	-	-	ND (0.040) [c]	ND (0.016) [c]	ND (0.016) [c]	ND (0.015) [c]	ND (0.015) [c]	ND (0.015) [c]	ND (0.016) [c]	ND (0.016) [c]	ND (0.015) [c]	ND (0.030) [c]	ND (0.016) [c]	ND (0.015) [c]
Benzo(a)anthracene	mg/kg	1	1	ND (0.027)	ND (0.011)	0.0113 J	ND (0.010)	ND (0.0098)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	0.0204 J	0.0113 J	ND (0.0099)
Benzo(a)pyrene	mg/kg	1	1	ND (0.043)	ND (0.017)	ND (0.017)	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.017)	ND (0.017)	ND (0.016)	ND (0.031)	ND (0.017)	ND (0.016)
Benzo(b)fluoranthene	mg/kg	1	1	ND (0.042)	ND (0.017)	ND (0.016)	ND (0.016)	ND (0.015)	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.031)	0.0162 J	ND (0.015)
Benzo(g,h,i)perylene	mg/kg	100	100	ND (0.047)	ND (0.019)	ND (0.018)	ND (0.018)	ND (0.017)	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.018)	0.0436 J	ND (0.018)	ND (0.017)
Benzo(k)fluoranthene	mg/kg	0.8	3.9	ND (0.044)	ND (0.018)	ND (0.017)	ND (0.017)	ND (0.016)	ND (0.017)	ND (0.017)	ND (0.017)	ND (0.017)	ND (0.032)	ND (0.017)	ND (0.016)
4-Bromophenyl phenyl ether	mg/kg	-	-	ND (0.036)	ND (0.015)	ND (0.014)	ND (0.014)	ND (0.013)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.027)	ND (0.014)	ND (0.014)
Butyl benzyl phthalate	mg/kg	-	-	ND (0.023)	ND (0.0093)	ND (0.0088)	ND (0.0088)	ND (0.0084)	ND (0.0088)	ND (0.0090)	ND (0.0090)	ND (0.0087)	ND (0.017)	ND (0.0089)	ND (0.0085)
1,1'-Biphenyl	mg/kg	-	-	ND (0.013)	ND (0.0052)	ND (0.0050)	ND (0.0049)	ND (0.0047)	ND (0.0049)	ND (0.0050)	ND (0.0050)	ND (0.0049)	ND (0.0095)	ND (0.0050)	ND (0.0048)
Benzaldehyde	mg/kg	-	-	ND (0.023)	ND (0.0095)	ND (0.0090)	ND (0.0089)	ND (0.0086)	ND (0.0090)	ND (0.0091)	ND (0.0091)	ND (0.0088)	ND (0.017)	ND (0.0091)	ND (0.0087)
2-Chloronaphthalene	mg/kg	-	-	ND (0.023)	ND (0.0091)	ND (0.0086)	ND (0.0085)	ND (0.0082)	ND (0.0086)	ND (0.0087)	ND (0.0087)	ND (0.0085)	ND (0.016)	ND (0.0087)	ND (0.0083)
4-Chloroaniline	mg/kg	-	-	ND (0.034)	ND (0.014)	ND (0.013)	ND (0.013)	ND (0.012)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.025)	ND (0.013)	ND (0.013)
Carbazole	mg/kg	-	-	ND (0.014)	ND (0.0055)	ND (0.0053)	ND (0.0052)	ND (0.0050)	ND (0.0052)	ND (0.0053)	ND (0.0053)	ND (0.0052)	ND (0.010)	ND (0.0053)	ND (0.0051)
Caprolactam	mg/kg	-	-	ND (0.037) [c]	ND (0.015) [c]	ND (0.014) [c]	ND (0.014) [c]	ND (0.014) [c]	ND (0.014) [c]	ND (0.015) [c]	ND (0.014) [c]	ND (0.014) [d]	ND (0.027) [c]	ND (0.014) [d]	ND (0.014) [d]
Chrysene	mg/kg	1	3.9	ND (0.030)	ND (0.012)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.022)	0.0136 J	ND (0.011)
bis(2-Chloroethoxy)methane	mg/kg	-	-	ND (0.020)	ND (0.0082)	ND (0.0078)	ND (0.0077)	ND (0.0074)	ND (0.0077)	ND (0.0079)	ND (0.0078)	ND (0.0076)	ND (0.015)	ND (0.0078)	ND (0.0075)
bis(2-Chloroethyl)ether	mg/kg	-	-	ND (0.041)	ND (0.016)	ND (0.016)	ND (0.015)	ND (0.015)	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.015)	ND (0.030)	ND (0.016)	ND (0.015)

Table 3.1 - Soil Analytical Table
August 13 - September 3, 2021
136-140 Croton Avenue, Ossining, NY
Project No. 12060
SESI Consulting Engineers

Client Sample ID:		USCO	RRSCO	SB-1 (6-6.5)	SB-2 (4.5-5.0)	SB-3 (6-6.5)	SB-5 (6-6.5)	SB-6 (9.5-10.0)	SB-8 (9.5-10.0)	SB-9 (7.5-8.0)	SB-10 (7.5-8.0)	SB-11(4.5-5.0)	SB-12(1.0-1.5)	SB-14(9.5-10.0)	SB-15(2.5-3.5)
Lab Sample ID:				JD29923-1	JD29923-2	JD29923-3	JD29923-4	JD29923-5	JD29923-6	JD29923-7	JD29923-8	JD30019-1	JD30019-2	JD30019-3	JD30019-4
Date Sampled:				8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/16/2021	8/16/2021	8/16/2021	8/16/2021
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Depth:	Units			6-6.5'	4.5-5.0'	6-6.5'	6-6.5'	9.5-10.0'	9.5-10.0'	7.5-8.0'	7.5-8.0'	4.5-5.0'	1.0-1.5'	9.5-10.0'	2.5-3.5'
2,2'-Oxybis(1-chloropropane)	mg/kg	-	-	ND (0.034)	ND (0.014)	ND (0.013)	ND (0.013)	ND (0.012)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.025)	ND (0.013)	ND (0.013)
4-Chlorophenyl phenyl ether	mg/kg	-	-	ND (0.031)	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.022)	ND (0.012)	ND (0.011)
2,4-Dinitrotoluene	mg/kg	-	-	ND (0.029)	ND (0.012)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.021)	ND (0.011)	ND (0.011)
2,6-Dinitrotoluene	mg/kg	-	-	ND (0.047)	ND (0.019)	ND (0.018)	ND (0.018)	ND (0.017)	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.018) [c]	ND (0.035) [c]	ND (0.018) [c]	ND (0.018) [c]
3,3'-Dichlorobenzidine	mg/kg	-	-	ND (0.079)	ND (0.032)	ND (0.030)	ND (0.030)	ND (0.029)	ND (0.030)	ND (0.031)	ND (0.031)	ND (0.030)	ND (0.058)	ND (0.030)	ND (0.029)
1,4-Dioxane	mg/kg	0.1	13	ND (0.062)	ND (0.025)	ND (0.024)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.024)	ND (0.024)	ND (0.024)	ND (0.046)	ND (0.024)	ND (0.023)
Dibenzo(a,h)anthracene	mg/kg	0.33	0.33	ND (0.042)	ND (0.017)	ND (0.016)	ND (0.016)	ND (0.015)	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.031)	ND (0.016)	ND (0.015)
Dibenzofuran	mg/kg	7	59	ND (0.038)	ND (0.016)	ND (0.015)	ND (0.015)	ND (0.014)	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.028)	ND (0.015)	ND (0.014)
Di-n-butyl phthalate	mg/kg	-	-	ND (0.015)	ND (0.0062)	ND (0.0059)	ND (0.0059)	ND (0.0056)	ND (0.0059)	ND (0.0060)	ND (0.0060)	ND (0.0058)	0.0304 J	ND (0.0060)	ND (0.0057)
Di-n-octyl phthalate	mg/kg	-	-	ND (0.024)	ND (0.0095)	ND (0.0090)	ND (0.0089)	ND (0.0086)	ND (0.0090)	ND (0.0091)	ND (0.0091)	ND (0.0089)	ND (0.017)	ND (0.0091)	ND (0.0087)
Diethyl phthalate	mg/kg	-	-	ND (0.020)	ND (0.0081)	ND (0.0077)	ND (0.0076)	ND (0.0074)	ND (0.0077)	ND (0.0078)	ND (0.0078)	ND (0.0076)	ND (0.015)	ND (0.0078)	ND (0.0075)
Dimethyl phthalate	mg/kg	-	-	ND (0.017)	ND (0.0068)	ND (0.0065)	ND (0.0064)	ND (0.0062)	ND (0.0064)	ND (0.0065)	ND (0.0065)	ND (0.0064)	ND (0.012)	ND (0.0065)	ND (0.0062)
bis(2-Ethylhexyl)phthalate	mg/kg	-	-	ND (0.022)	ND (0.0089)	ND (0.0085)	ND (0.0084)	ND (0.0081)	ND (0.0084)	ND (0.0086)	ND (0.0086)	ND (0.0083)	ND (0.016)	0.0694 J	ND (0.0082)
Fluoranthene	mg/kg	100	100	ND (0.042)	ND (0.017)	ND (0.016)	ND (0.016)	ND (0.015)	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.031)	0.0177 J	ND (0.016)
Fluorene	mg/kg	30	100	ND (0.043)	ND (0.018)	ND (0.017)	ND (0.016)	ND (0.016)	ND (0.017)	ND (0.017)	ND (0.017)	ND (0.016)	ND (0.032)	ND (0.017)	ND (0.016)
Hexachlorobenzene	mg/kg	0.33	1.2	ND (0.024)	ND (0.0097)	ND (0.0092)	ND (0.0091)	ND (0.0087)	ND (0.0091)	ND (0.0093)	ND (0.0093)	ND (0.0090)	ND (0.017)	ND (0.0092)	ND (0.0089)
Hexachlorobutadiene	mg/kg	-	-	ND (0.038)	ND (0.015)	ND (0.015)	ND (0.014)	ND (0.014)	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.014)	ND (0.028)	ND (0.015)	ND (0.014)
Hexachlorocyclopentadiene	mg/kg	-	-	ND (0.038)	ND (0.015)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.015)	ND (0.015)	ND (0.014)	ND (0.027)	ND (0.015)	ND (0.014)
Hexachloroethane	mg/kg	-	-	ND (0.047)	ND (0.019)	ND (0.018)	ND (0.018)	ND (0.017)	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.034)	ND (0.018)	ND (0.017)
Indeno(1,2,3-cd)pyrene	mg/kg	0.5	0.5	ND (0.044)	ND (0.018)	ND (0.017)	ND (0.017)	ND (0.016)	ND (0.017)	ND (0.017)	ND (0.017)	ND (0.017)	ND (0.032)	ND (0.017)	ND (0.016)
Isophorone	mg/kg	-	-	ND (0.020)	ND (0.0082)	ND (0.0078)	ND (0.0077)	ND (0.0074)	ND (0.0077)	ND (0.0079)	ND (0.0078)	ND (0.0076)	ND (0.015)	ND (0.0078)	ND (0.0075)
2-Methylnaphthalene	mg/kg	-	-	ND (0.021)	ND (0.0086)	ND (0.0082)	ND (0.0081)	ND (0.0078)	ND (0.0082)	ND (0.0083)	ND (0.0083)	ND (0.0081)	ND (0.016)	ND (0.0083)	ND (0.0079)
2-Nitroaniline	mg/kg	-	-	ND (0.022)	ND (0.0090)	ND (0.0086)	ND (0.0085)	ND (0.0082)	ND (0.0085)	ND (0.0087)	ND (0.0087)	ND (0.0084)	ND (0.016)	ND (0.0086)	ND (0.0083)
3-Nitroaniline	mg/kg	-	-	ND (0.024)	ND (0.0095)	ND (0.0091)	ND (0.0090)	ND (0.0086)	ND (0.0090)	ND (0.0092)	ND (0.0092)	ND (0.0089)	ND (0.017)	ND (0.0091)	ND (0.0087)
4-Nitroaniline	mg/kg	-	-	ND (0.024)	ND (0.0099)	ND (0.0094)	ND (0.0093)	ND (0.0090)	ND (0.0094)	ND (0.0095)	ND (0.0095)	ND (0.0092)	ND (0.018)	ND (0.0095)	ND (0.0091)
Naphthalene	mg/kg	12	100	ND (0.027)	ND (0.011)	ND (0.010)	ND (0.010)	ND (0.0098)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.019)	ND (0.010)	ND (0.0099)
Nitrobenzene	mg/kg	-	15	ND (0.036)	ND (0.015)	ND (0.014)	ND (0.014)	ND (0.013)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.027)	ND (0.014)	ND (0.014)
N-Nitroso-di-n-propylamine	mg/kg	-	-	ND (0.027)	ND (0.011)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.010)	ND (0.020)	ND (0.011)	ND (0.010)
N-Nitrosodiphenylamine	mg/kg	-	-	ND (0.035)	ND (0.014)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.025)	ND (0.013)	ND (0.013)
Phenanthrene	mg/kg	100	100	ND (0.032)	ND (0.013)	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.023)	ND (0.012)	ND (0.012)
Pyrene	mg/kg	100	100	ND (0.030)	ND (0.012)	0.0177 J	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.011)	0.0319 J	0.0181 J	0.0111 J
1,2,4,5-Tetrachlorobenzene	mg/kg	-	-	ND (0.024)	ND (0.0097)	ND (0.0092)	ND (0.0091)	ND (0.0088)	ND (0.0092)	ND (0.0093)	ND (0.0093)	ND (0.0091)	ND (0.018)	ND (0.0093)	ND (0.0089)
MS Semi-volatile TIC															
Total TIC, Semi-Volatile	mg/kg	-	-	0	0	0	0	0	0	0.23 J	0	0	0	2.03 J	0.4 J
GC/LC Semi-volatiles (SW846 8081B)															
Aldrin	mg/kg	0.005	0.097	ND (0.00056)	ND (0.00062)	ND (0.00057)	ND (0.00057)	ND (0.00058)	ND (0.00059)	ND (0.00059)	ND (0.00058)	ND (0.00057)	ND (0.00053)	ND (0.00057)	ND (0.00055)
alpha-BHC	mg/kg	0.02	0.48	ND (0.00056)	ND (0.00061)	ND (0.00056)	ND (0.00056)	ND (0.00057)	ND (0.00058)	ND (0.00058)	ND (0.00057)	ND (0.00056)	ND (0.00052)	ND (0.00056)	ND (0.00055)
beta-BHC	mg/kg	0.036	0.36	ND (0.00062)	ND (0.00068)	ND (0.00062)	ND (0.00062)	ND (0.00064)	ND (0.00065)	ND (0.00065)	ND (0.00063)	ND (0.00062)	ND (0.00058)	ND (0.00063)	ND (0.00061)
delta-BHC	mg/kg	0.04	100	ND (0.00066)	ND (0.00072)	ND (0.00066)	ND (0.00066)	ND (0.00067)	ND (0.00069)	ND (0.00069)	ND (0.00067)	ND (0.00066)	ND (0.00062)	ND (0.00066)	ND (0.00064)
gamma-BHC (Lindane)	mg/kg	0.1	1.3	ND (0.00050)	ND (0.00056)	ND (0.00051)	ND (0.00051)	ND (0.00052)	ND (0.00053)	ND (0.00053)	ND (0.00052)	ND (0.00051)	ND (0.00048)	ND (0.00051)	ND (0.00049)
alpha-Chlordane	mg/kg	0.094	4.2	ND (0.00055)	0.0011 [f]	0.0015 [f]	ND (0.00056)	ND (0.00057)	ND (0.00058)	ND (0.00058)	ND (0.00056)	ND (0.00056)	ND (0.00052)	ND (0.00056)	ND (0.00054)
gamma-Chlordane	mg/kg	-	-	ND (0.00031)	0.00058 J [f]	0.0011	ND (0.00031)	ND (0.00032)	ND (0.00032)	ND (0.00032)	ND (0.00032)	ND (0.00031)	ND (0.00029)	ND (0.00031)	ND (0.00030)
Dieldrin	mg/kg	0.005	0.2	ND (0.00047)	ND (0.00052)	ND (0.00047)	ND (0.00047)	ND (0.00048)	ND (0.00049)	ND (0.00049)	ND (0.00048)	ND (0.00047)	ND (0.00044)	ND (0.00048)	ND (0.00046)
4,4'-DDD	mg/kg	0.0033	13	ND (0.00063)	ND (0.00069)	ND (0.00063)	ND (0.00063)	ND (0.00065)	ND (0.00066)	ND (0.00066)	ND (0.00064)	ND (0.00063)	ND (0.00059)	ND (0.00064)	ND (0.00062)
4,4'-DDE	mg/kg	0.0033	8.9	ND (0.00060)	0.0011 [f]	ND (0.00060)	ND (0.00061)	ND (0.00062)	ND (0.00063)	ND (0.00063)	ND (0.00061)	ND (0.00061)	ND (0.00057)	ND (0.00061)	ND (0.00059)

Table 3.1 - Soil Analytical Table
August 13 - September 3, 2021
136-140 Croton Avenue, Ossining, NY
Project No. 12060
SESI Consulting Engineers

Client Sample ID:		USCO	RRSCO	SB-1 (6-6.5)	SB-2 (4.5-5.0)	SB-3 (6-6.5)	SB-5 (6-6.5)	SB-6 (9.5-10.0)	SB-8 (9.5-10.0)	SB-9 (7.5-8.0)	SB-10 (7.5-8.0)	SB-11(4.5-5.0)	SB-12(1.0-1.5)	SB-14(9.5-10.0)	SB-15(2.5-3.5)
Lab Sample ID:				JD29923-1	JD29923-2	JD29923-3	JD29923-4	JD29923-5	JD29923-6	JD29923-7	JD29923-8	JD30019-1	JD30019-2	JD30019-3	JD30019-4
Date Sampled:				8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/16/2021	8/16/2021	8/16/2021	8/16/2021
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Depth:	Units			6-6.5'	4.5-5.0'	6-6.5'	6-6.5'	9.5-10.0'	9.5-10.0'	7.5-8.0'	7.5-8.0'	4.5-5.0'	1.0-1.5'	9.5-10.0'	2.5-3.5'
4,4'-DDT	mg/kg	0.0033	7.9	ND (0.00061)	0.0021	ND (0.00061)	ND (0.00061)	ND (0.00062)	ND (0.00063)	ND (0.00063)	ND (0.00062)	ND (0.00061)	ND (0.00057)	ND (0.00061)	ND (0.00059)
Endrin	mg/kg	0.014	11	ND (0.00053)	ND (0.00059)	ND (0.00053)	ND (0.00054)	ND (0.00055)	ND (0.00056)	ND (0.00056)	ND (0.00054)	ND (0.00054)	ND (0.00050)	ND (0.00054)	ND (0.00052)
Endosulfan sulfate	mg/kg	2.4	24	ND (0.00053)	ND (0.00059)	ND (0.00054)	ND (0.00054)	ND (0.00055)	ND (0.00056)	ND (0.00056)	ND (0.00055)	ND (0.00054)	ND (0.00050)	ND (0.00054)	ND (0.00052)
Endrin aldehyde	mg/kg	-	-	ND (0.00039)	ND (0.00043)	ND (0.00039)	ND (0.00039)	ND (0.00040)	ND (0.00041)	ND (0.00041)	ND (0.00040)	ND (0.00039)	ND (0.00037)	ND (0.00039)	ND (0.00038)
Endosulfan-I	mg/kg	2.4	24	ND (0.00039)	0.00083	ND (0.00040)	ND (0.00040)	ND (0.00040)	ND (0.00041)	ND (0.00041)	ND (0.00040)	ND (0.00040)	ND (0.00037)	ND (0.00040)	ND (0.00039)
Endosulfan-II	mg/kg	2.4	24	ND (0.00043)	ND (0.00047)	ND (0.00043)	ND (0.00043)	ND (0.00044)	ND (0.00045)	ND (0.00045)	ND (0.00044)	ND (0.00043)	ND (0.00040)	ND (0.00043)	ND (0.00042)
Heptachlor	mg/kg	0.042	2.1	ND (0.00059)	ND (0.00065)	ND (0.00059)	ND (0.00060)	ND (0.00061)	ND (0.00062)	ND (0.00062)	ND (0.00060)	ND (0.00060)	ND (0.00056)	ND (0.00060)	ND (0.00058)
Heptachlor epoxide	mg/kg	-	-	ND (0.00048)	0.00079 [T]	ND (0.00048)	ND (0.00048)	ND (0.00049)	ND (0.00050)	ND (0.00050)	ND (0.00049)	ND (0.00048)	ND (0.00045)	ND (0.00049)	ND (0.00047)
Methoxychlor	mg/kg	-	-	ND (0.00054)	ND (0.00060)	ND (0.00055)	ND (0.00055)	ND (0.00056)	ND (0.00057)	ND (0.00057)	ND (0.00056)	ND (0.00055)	ND (0.00051)	ND (0.00055)	ND (0.00053)
Endrin ketone	mg/kg	-	-	ND (0.00050)	ND (0.00054)	ND (0.00050)	ND (0.00050)	ND (0.00051)	ND (0.00052)	ND (0.00052)	ND (0.00051)	ND (0.00050)	ND (0.00047)	ND (0.00050)	ND (0.00049)
Toxaphene	mg/kg	-	-	ND (0.016)	ND (0.018)	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.017)	ND (0.017)	ND (0.016)	ND (0.016)	ND (0.015)	ND (0.016)	ND (0.016)
GC/LC Semi-volatiles (SW846 8082A)															
Aroclor 1016	mg/kg	0.1	1	ND (0.016)	ND (0.018)	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.017)	ND (0.017)	ND (0.016)	ND (0.016)	ND (0.015)	ND (0.016)	ND (0.016)
Aroclor 1221	mg/kg	0.1	1	ND (0.021)	ND (0.023)	ND (0.021)	ND (0.021)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.020)	ND (0.021)	ND (0.021)
Aroclor 1232	mg/kg	0.1	1	ND (0.022)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.022)	ND (0.021)
Aroclor 1242	mg/kg	0.1	1	ND (0.014)	ND (0.015)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.015)	ND (0.015)	ND (0.014)	ND (0.014)	ND (0.013)	ND (0.014)	ND (0.014)
Aroclor 1248	mg/kg	0.1	1	ND (0.031)	ND (0.034)	ND (0.031)	ND (0.031)	ND (0.031)	ND (0.032)	ND (0.032)	ND (0.031)	ND (0.031)	ND (0.029)	ND (0.031)	ND (0.030)
Aroclor 1254	mg/kg	0.1	1	ND (0.018)	ND (0.020)	ND (0.018)	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.017)	ND (0.019)	ND (0.018)
Aroclor 1260	mg/kg	0.1	1	ND (0.015)	ND (0.016)	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.014)	ND (0.015)	ND (0.014)
Aroclor 1268	mg/kg	0.1	1	ND (0.014)	ND (0.016)	ND (0.014)	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.014)	ND (0.015)	ND (0.014)
Aroclor 1262	mg/kg	0.1	1	ND (0.022)	ND (0.025)	ND (0.022)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.021)	ND (0.023)	ND (0.022)
Metals Analysis															
Aluminum	mg/kg	-	-	11700	13700	12100	15800	10300	17000	16200	7740	12000	6390	10300	10800
Antimony	mg/kg	-	-	<4.4 [g]	<4.4 [g]	<4.6 [g]	<4.4 [g]	<11 [g]	<4.5 [g]	<4.6 [g]	<2.3	<2.3	<2.3	<2.2	<2.1
Arsenic	mg/kg	13	16	<2.2	<4.4 [g]	<2.3	<4.4 [g]	<2.2	<4.5 [g]	<4.6 [g]	<2.3	<2.3	5.8	<4.4 [g]	<2.1
Barium	mg/kg	350	400	141	136	120	170	107	174	168	103	118	43.8	100	106
Beryllium	mg/kg	7.2	72	0.56 [g]	0.70 [g]	0.60 [g]	0.82 [g]	<1.1 [g]	0.87 [g]	0.85 [g]	0.36	0.87 [g]	<0.23	0.67	0.75 [g]
Cadmium	mg/kg	2.5	4.3	<0.55	-	<0.57	<1.1 [g]	<0.54	<1.1 [g]	<1.2 [g]	<0.58	<0.56	<0.56	<1.1 [g]	<0.53
Calcium	mg/kg	-	-	10200	6800	9240	9000	41300	11300	9530	5340	8500	96700 [g]	3400	2000
Chromium	mg/kg	-	-	20.1	23.5	28.5	27	17.3	27.6	27.1	15	19.3	10.9	16.3	16.6
Cobalt	mg/kg	-	-	<11 [g]	<11 [g]	<11 [g]	11.3 [g]	<27 [g]	11.8 [g]	<12 [g]	6.1	<11 [g]	6.3	10.6	<11 [g]
Copper	mg/kg	50	270	20.1	16.7 [g]	15.3	18.8 [g]	12.2	20.5 [g]	20.3 [g]	10.9	19.1	14.1	**69.5 [g]**	12.5
Iron	mg/kg	-	-	20000	24800	21400	27000	17700	28000	28000	15000	20800	14600	24000	18900
Lead	mg/kg	63	400	6.9	11.0 [g]	11.7	7.7 [g]	5.6	8.4 [g]	7.6 [g]	4.4	9.1	45.3	57.7 [g]	5.2
Magnesium	mg/kg	-	-	7380	7110	8270	9260	24000	9150	9050	4710	7400	47000 [g]	4870	4720
Manganese	mg/kg	1600	2000	350	343	281	284	275	409	314	545	287	361	245	261
Mercury	mg/kg	0.18	0.81	<0.033	<0.033	<0.030	<0.036	<0.034	<0.034	<0.034	<0.030	<0.033	<0.033	<0.038	<0.028
Nickel	mg/kg	30	310	14.2	17.6	16.8	20.4	13.6	21.6	21	11.2	17	16.6	16.9	14.7
Potassium	mg/kg	-	-	5410	5460	5080	6820	4230	7170	7180	3300	4670	1770	2730	4800
Selenium	mg/kg	3.9	180	<2.2	<4.4 [g,h]	<2.3	<4.4 [g,h]	<2.2	<4.5 [g,h]	<4.6 [g,h]	<2.3	<2.3	<2.3	<4.4 [g,h]	<2.1
Silver	mg/kg	2	180	1.1 [g]	1.1 [g]	<1.1 [g]	1.4 [g]	<2.7 [g,h]	1.4 [g]	1.5 [g]	1	1.4 [g]	<2.8 [g,h]	1.1 [g]	1.3 [g]
Sodium	mg/kg	-	-	<1100	<1100	<1100	<1100	<1100	<1100	<1200	<1200	<1100	<1100	<1100	<1100
Thallium	mg/kg	-	-	<2.2 [g]	<2.2 [g]	<2.3 [g]	<2.2 [g]	<5.4 [g]	<2.3 [g]	<2.3 [g]	<1.2	<2.3 [g]	<1.1	<2.2 [g]	<2.1 [g]

Table 3.1 - Soil Analytical Table
August 13 - September 3, 2021
136-140 Croton Avenue, Ossining, NY
Project No. 12060
SESI Consulting Engineers

Client Sample ID:		USCO	RRSCO	SB-1 (6-6.5)	SB-2 (4.5-5.0)	SB-3 (6-6.5)	SB-5 (6-6.5)	SB-6 (9.5-10.0)	SB-8 (9.5-10.0)	SB-9 (7.5-8.0)	SB-10 (7.5-8.0)	SB-11(4.5-5.0)	SB-12(1.0-1.5)	SB-14(9.5-10.0)	SB-15(2.5-3.5)
Lab Sample ID:				JD29923-1	JD29923-2	JD29923-3	JD29923-4	JD29923-5	JD29923-6	JD29923-7	JD29923-8	JD30019-1	JD30019-2	JD30019-3	JD30019-4
Date Sampled:				8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/16/2021	8/16/2021	8/16/2021	8/16/2021
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Depth:	Units			6-6.5'	4.5-5.0'	6-6.5'	6-6.5'	9.5-10.0'	9.5-10.0'	7.5-8.0'	7.5-8.0'	4.5-5.0'	1.0-1.5'	9.5-10.0'	2.5-3.5'
Vanadium	mg/kg	-	-	28.6	33.3	29.4	36.2	26.4	37.9	36.8	20.2	28.5	30.2	56.7	23.8
Zinc	mg/kg	109	10000	45	53.8	52.6	56.1	37.2	58.9	58.6	32.8	51.3	50.3	102	49.8
General Chemistry															
Cyanide	mg/kg	27	27	<0.25	<0.26	<0.24	<0.25	<0.22	<0.25	<0.26	<0.27	<0.22	<0.24	<0.24	<0.21
Solids, Percent	%	-	-	93.6	87.3	91.6	91.6	92.4	91.4	90.8	88.8	92.2	93.4	87.5	93.7

Footnotes:

[a] Associated CCV outside of control limits low.

[b] Associated CCV outside of control limits high, sample was ND.
This compound in blank spike is outside in house QC limits bias high.
Associated CCV outside of control limits high, sample was ND.

[c] Associated CCV outside of control limits high, sample was ND.

[d] This compound in BS is outside in house QC limits bias high.

[e] Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

[f] More than 40 % RPD for detected concentrations between the two GC columns.

[g] Elevated detection limit due to dilution required for high interfering element.

[h] Elevated detection limit over USCOs due to dilution required for high interfering element.

Additional Notes:

mg/kg = Miligrams per kilogram
ND = Not Detected
- = No soil cleanup objective established
NA = Not Analyzed
J = The reported result is an estimate. The value is less than the minimum calibration level but greater than the estimated detection limit (EDL)
USCO = NY Unrestricted Use Soil Cleanup Objectives (6 NYCRR 375-6 12/06)
RRSCO = NY Restricted Residential Use Soil Cleanup Objectives w/CP-51 (10/10) (6 NYCRR 375-6 12/06)

= Compound was detected
= Concentration exceeds USCOs
= Concentration exceeds RRSCOs

Table 3.1 - Soil Analytical Table
August 13 - September 3, 2021
136-140 Croton Avenue, Ossining, NY
Project No. 12060
SESI Consulting Engineers

Client Sample ID:		USCO	RRSCO	SB-16(4.5-5.0)	SB-17(6-6.5)	SB-18_2.0_2.5	SB-18_7.0_7.5	SB-19_3.0_3.5	SB-19_4.0_4.5	SB-20_3.0_3.5	SB-21_2.0_2.5	SB-22_2.0_2.5	SB-23_2.0_2.5
Lab Sample ID:				JD30019-5	JD30019-6	JD30962-1	JD30962-2	JD30962-3	JD30962-4	JD30962-5	JD30962-6	JD30962-7	JD30962-8
Date Sampled:				8/16/2021	8/16/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Depth:	Units			4.5-5.0'	6-6.5'	2.0-2.5'	7.0-7.5'	3.0-3.5'	4.0-4.5'	3.0-3.5'	2.0-2.5'	2.0-2.5'	2.0-2.5'
MS Volatiles (SW846 8260D)													
Acetone	mg/kg	0.05	100	ND (0.0041)	0.0072 J	ND (0.22) [b]	ND (0.22) [c]	ND (0.21) [b]	ND (0.22) [b]	NA	NA	NA	NA
Benzene	mg/kg	0.06	4.8	ND (0.00045)	ND (0.00040)	**0.674**	ND (0.024)	**2.97**	**0.287**	NA	NA	NA	NA
Bromochloromethane	mg/kg	-	-	ND (0.00056)	ND (0.00049)	ND (0.030)	ND (0.030)	ND (0.029)	ND (0.029)	NA	NA	NA	NA
Bromodichloromethane	mg/kg	-	-	ND (0.00043)	ND (0.00037)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.022)	NA	NA	NA	NA
Bromoform	mg/kg	-	-	ND (0.0014)	ND (0.0012)	ND (0.072)	ND (0.072)	ND (0.071)	ND (0.071)	NA	NA	NA	NA
Bromomethane	mg/kg	-	-	ND (0.00076)	ND (0.00067)	ND (0.040)	ND (0.041)	ND (0.040)	ND (0.040)	NA	NA	NA	NA
2-Butanone (MEK)	mg/kg	0.12	100	ND (0.0024) [c]	ND (0.0021) [c]	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	NA	NA	NA	NA
Carbon disulfide	mg/kg	-	-	ND (0.00053)	ND (0.00047)	ND (0.028)	ND (0.028)	ND (0.028)	ND (0.028)	NA	NA	NA	NA
Carbon tetrachloride	mg/kg	0.76	2.4	ND (0.00062)	ND (0.00054)	ND (0.033)	ND (0.033)	ND (0.032)	ND (0.032)	NA	NA	NA	NA
Chlorobenzene	mg/kg	1.1	100	ND (0.00046)	ND (0.00040)	ND (0.024)	ND (0.024)	ND (0.024)	ND (0.024)	NA	NA	NA	NA
Chloroethane	mg/kg	-	-	ND (0.00059)	ND (0.00052)	ND (0.031)	ND (0.031)	ND (0.031)	ND (0.031)	NA	NA	NA	NA
Chloroform	mg/kg	0.37	49	ND (0.00052)	ND (0.00045)	ND (0.027)	ND (0.028)	ND (0.027)	ND (0.027)	NA	NA	NA	NA
Chloromethane	mg/kg	-	-	ND (0.0020)	ND (0.0017)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	NA	NA	NA	NA
Cyclohexane	mg/kg	-	-	ND (0.00066)	ND (0.00057)	1.03	ND (0.035)	3.7	0.549	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/kg	-	-	ND (0.00069)	ND (0.00061)	ND (0.037)	ND (0.037)	ND (0.036)	ND (0.036)	NA	NA	NA	NA
Dibromochloromethane	mg/kg	-	-	ND (0.00056)	ND (0.00049)	ND (0.030)	ND (0.030)	ND (0.029)	ND (0.029)	NA	NA	NA	NA
1,2-Dibromoethane	mg/kg	-	-	ND (0.00042)	ND (0.00037)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	1.1	100	ND (0.00055)	ND (0.00048)	ND (0.029)	ND (0.029)	ND (0.028)	ND (0.028)	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	2.4	49	ND (0.00050)	ND (0.00043)	ND (0.026)	ND (0.026)	ND (0.026)	ND (0.026)	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	1.8	13	ND (0.00049)	ND (0.00043)	ND (0.026)	ND (0.026)	ND (0.026)	ND (0.026)	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	-	-	ND (0.00073)	ND (0.00064)	ND (0.038)	ND (0.039)	ND (0.038)	ND (0.038)	NA	NA	NA	NA
1,1-Dichloroethane	mg/kg	0.27	26	ND (0.00049)	ND (0.00043)	ND (0.026)	ND (0.026)	ND (0.026)	ND (0.026)	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	0.02	3.1	ND (0.00047)	ND (0.00041)	ND (0.025)	ND (0.025)	ND (0.024)	ND (0.025)	NA	NA	NA	NA
1,1-Dichloroethene	mg/kg	0.33	100	ND (0.00065)	ND (0.00057)	ND (0.035)	ND (0.035)	ND (0.034)	ND (0.034)	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/kg	0.25	100	ND (0.00084)	ND (0.00073)	ND (0.044)	ND (0.045)	ND (0.044)	ND (0.044)	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/kg	0.19	100	ND (0.00061)	ND (0.00053)	ND (0.032)	ND (0.033)	ND (0.032)	ND (0.032)	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	-	-	ND (0.00047)	ND (0.00041)	ND (0.025)	ND (0.025)	ND (0.025)	ND (0.025)	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	-	-	ND (0.00047)	ND (0.00041)	ND (0.025)	ND (0.025)	ND (0.025)	ND (0.025)	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/kg	-	-	ND (0.00046) [c]	ND (0.00040) [c]	ND (0.024)	ND (0.024)	ND (0.024)	ND (0.024)	NA	NA	NA	NA
Ethylbenzene	mg/kg	1	41	ND (0.00045)	ND (0.00040)	**36.6**	0.632	**48.3**	**8.88**	NA	NA	NA	NA
Freon 113	mg/kg	-	-	ND (0.0027)	ND (0.0023)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	NA	NA	NA	NA
2-Hexanone	mg/kg	-	-	ND (0.0021)	ND (0.0019)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	NA	NA	NA	NA
Isopropylbenzene	mg/kg	-	-	ND (0.0014)	ND (0.0012)	7.34	0.298	7.99	1.97	NA	NA	NA	NA
Methyl Acetate	mg/kg	-	-	ND (0.0014)	ND (0.0012)	ND (0.073)	ND (0.074)	ND (0.072)	ND (0.073)	NA	NA	NA	NA
Methylcyclohexane	mg/kg	-	-	ND (0.00087)	ND (0.00076)	3.82	ND (0.047)	27.6	5.33	NA	NA	NA	NA
Methyl Tert Butyl Ether	mg/kg	0.93	100	ND (0.00047) [c]	ND (0.00041) [c]	ND (0.025)	ND (0.025)	ND (0.024)	ND (0.024)	NA	NA	NA	NA
4-Methyl-2-pentanone(MIBK)	mg/kg	-	-	ND (0.0023)	ND (0.0020)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	NA	NA	NA	NA
Methylene chloride	mg/kg	0.05	100	ND (0.0026)	ND (0.0023)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	NA	NA	NA	NA
Styrene	mg/kg	-	-	ND (0.00040)	ND (0.00035)	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.021)	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	-	-	ND (0.00060)	ND (0.00052)	ND (0.032)	ND (0.032)	ND (0.031)	ND (0.031)	NA	NA	NA	NA
Tetrachloroethene	mg/kg	1.3	19	ND (0.00058)	ND (0.00051)	ND (0.031)	ND (0.031)	ND (0.030)	ND (0.030)	NA	NA	NA	NA
Toluene	mg/kg	0.7	100	ND (0.00052)	ND (0.00046)	**8.13**	0.208	**67.5**	**7.6**	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	-	-	ND (0.0025)	ND (0.0022)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	-	-	ND (0.0025)	ND (0.0022)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	0.68	100	ND (0.00048)	ND (0.00042)	ND (0.025)	ND (0.026)	ND (0.025)	ND (0.025)	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	-	-	ND (0.00055)	ND (0.00048)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)	NA	NA	NA	NA

Table 3.1 - Soil Analytical Table
August 13 - September 3, 2021
136-140 Croton Avenue, Ossining, NY
Project No. 12060
SESI Consulting Engineers

Client Sample ID:		USCO	RRSCO	SB-16(4.5-5.0)	SB-17(6-6.5)	SB-18_2.0_2.5	SB-18_7.0_7.5	SB-19_3.0_3.5	SB-19_4.0_4.5	SB-20_3.0_3.5	SB-21_2.0_2.5	SB-22_2.0_2.5	SB-23_2.0_2.5
Lab Sample ID:				JD30019-5	JD30019-6	JD30962-1	JD30962-2	JD30962-3	JD30962-4	JD30962-5	JD30962-6	JD30962-7	JD30962-8
Date Sampled:				8/16/2021	8/16/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Depth:	Units			4.5-5.0'	6-6.5'	2.0-2.5'	7.0-7.5'	3.0-3.5'	4.0-4.5'	3.0-3.5'	2.0-2.5'	2.0-2.5'	2.0-2.5'
Trichloroethene	mg/kg	0.47	21	ND (0.00076)	ND (0.00067)	ND (0.040)	ND (0.041)	ND (0.040)	ND (0.040)	NA	NA	NA	NA
Trichlorofluoromethane	mg/kg	-	-	ND (0.00068)	ND (0.00060)	ND (0.036)	ND (0.036)	ND (0.035)	ND (0.036)	NA	NA	NA	NA
Vinyl chloride	mg/kg	0.02	0.9	ND (0.00048)	ND (0.00042)	ND (0.025)	ND (0.026)	ND (0.025)	ND (0.025)	NA	NA	NA	NA
m,p-Xylene	mg/kg	0.26	100	ND (0.00090)	ND (0.00078)	**120**	**3.23**	**235**	**46.4**	NA	NA	NA	NA
o-Xylene	mg/kg	0.26	100	ND (0.00046)	ND (0.00040)	**47.4**	**1.72**	**93.5**	**17.7**	NA	NA	NA	NA
Xylene (total)	mg/kg	0.26	100	ND (0.00046)	ND (0.00040)	**167**	**4.95**	**329**	**64.1**	NA	NA	NA	NA
MS Volatile TIC													
Total TIC, Volatile	mg/kg	-	-	0	0	543 J	53.1 J	209.4 J	128.5 J	NA	NA	NA	NA
MS Semi-volatiles (SW846 8270E)													
2-Chlorophenol	mg/kg	-	-	ND (0.018)	ND (0.017)	ND (0.036)	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.017)	ND (0.017)	ND (0.017)
4-Chloro-3-methyl phenol	mg/kg	-	-	ND (0.022)	ND (0.021)	ND (0.044)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.021)	ND (0.021)
2,4-Dichlorophenol	mg/kg	-	-	ND (0.031)	ND (0.029)	ND (0.062)	ND (0.030)	ND (0.030)	ND (0.031)	ND (0.031)	ND (0.030)	ND (0.029)	ND (0.029)
2,4-Dimethylphenol	mg/kg	-	-	ND (0.064)	ND (0.061)	ND (0.13)	ND (0.064)	ND (0.063)	ND (0.065)	ND (0.064)	ND (0.062)	ND (0.060)	ND (0.062)
2,4-Dinitrophenol	mg/kg	-	-	ND (0.13)	ND (0.13)	ND (0.27) [c]	ND (0.13) [c]	ND (0.13) [c]	ND (0.14) [c]	ND (0.14) [c]	ND (0.13) [c]	ND (0.13) [c]	ND (0.13) [c]
4,6-Dinitro-o-cresol	mg/kg	-	-	ND (0.038)	ND (0.037)	ND (0.078)	ND (0.038)	ND (0.038)	ND (0.039)	ND (0.039)	ND (0.037)	ND (0.036)	ND (0.037)
2-Methylphenol	mg/kg	0.33	100	ND (0.023)	ND (0.022)	ND (0.046)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)
3&4-Methylphenol	mg/kg	-	-	ND (0.029)	ND (0.028)	ND (0.060)	ND (0.029)	ND (0.029)	ND (0.030)	ND (0.030)	ND (0.029)	ND (0.028)	ND (0.028)
2-Nitrophenol	mg/kg	-	-	ND (0.024)	ND (0.023)	ND (0.048)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.024)	ND (0.023)	ND (0.022)	ND (0.023)
4-Nitrophenol	mg/kg	-	-	ND (0.095)	ND (0.092)	ND (0.19)	ND (0.095)	ND (0.095)	ND (0.097)	ND (0.096)	ND (0.093)	ND (0.091)	ND (0.092)
Pentachlorophenol	mg/kg	0.8	6.7	ND (0.034)	ND (0.032)	ND (0.068)	ND (0.034)	ND (0.033)	ND (0.034)	ND (0.034)	ND (0.033)	ND (0.032)	ND (0.032)
Phenol	mg/kg	0.33	100	ND (0.019)	ND (0.018)	ND (0.038)	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.018)	ND (0.018)	ND (0.018)
2,3,4,6-Tetrachlorophenol	mg/kg	-	-	ND (0.024)	ND (0.023)	ND (0.048)	ND (0.024)	ND (0.024)	ND (0.024)	ND (0.024)	ND (0.023)	ND (0.022)	ND (0.023)
2,4,5-Trichlorophenol	mg/kg	-	-	ND (0.027)	ND (0.026)	ND (0.054)	ND (0.027)	ND (0.027)	ND (0.027)	ND (0.027)	ND (0.026)	ND (0.025)	ND (0.026)
2,4,6-Trichlorophenol	mg/kg	-	-	ND (0.021)	ND (0.020)	ND (0.043)	ND (0.021)	ND (0.021)	ND (0.022)	ND (0.021)	ND (0.021)	ND (0.020)	ND (0.021)
Acenaphthene	mg/kg	20	100	ND (0.012)	ND (0.012)	0.0529 J	ND (0.012)	0.0501	0.0309 J	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)
Acenaphthylene	mg/kg	100	100	ND (0.018)	ND (0.017)	ND (0.037)	ND (0.018)	0.0349 J	ND (0.019)	ND (0.018)	ND (0.018)	ND (0.017)	ND (0.018)
Acetophenone	mg/kg	-	-	ND (0.0077)	ND (0.0074)	ND (0.016)	ND (0.0077)	ND (0.0076)	ND (0.0078)	ND (0.0077)	ND (0.0075)	ND (0.0073)	ND (0.0074)
Anthracene	mg/kg	100	100	ND (0.022)	ND (0.021)	ND (0.044)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.021)	ND (0.021)
Atrazine	mg/kg	-	-	ND (0.015) [c]	ND (0.015) [c]	ND (0.031)	ND (0.015)	ND (0.015)	ND (0.016)	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)
Benzo(a)anthracene	mg/kg	1	1	ND (0.010)	ND (0.0097)	ND (0.021)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	0.0152 J	0.041	0.0872
Benzo(a)pyrene	mg/kg	1	1	ND (0.016)	ND (0.016)	ND (0.033)	ND (0.016)	ND (0.016)	ND (0.017)	ND (0.016)	ND (0.016)	0.0363	0.0827
Benzo(b)fluoranthene	mg/kg	1	1	ND (0.016)	ND (0.015)	ND (0.032)	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.015)	0.0409	0.107
Benzo(g,h,i)perylene	mg/kg	100	100	ND (0.018)	ND (0.017)	ND (0.036)	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.017)	0.0232 J	0.0765
Benzo(k)fluoranthene	mg/kg	0.8	3.9	ND (0.017)	ND (0.016)	ND (0.034)	ND (0.017)	ND (0.017)	ND (0.017)	ND (0.017)	ND (0.016)	0.0213 J	0.0436
4-Bromophenyl phenyl ether	mg/kg	-	-	ND (0.014)	ND (0.013)	ND (0.028)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.013)	ND (0.013)	ND (0.013)
Butyl benzyl phthalate	mg/kg	-	-	ND (0.0087)	ND (0.0084)	ND (0.018)	ND (0.0087)	ND (0.0087)	ND (0.0089)	ND (0.0088)	ND (0.0085)	ND (0.0083)	ND (0.0084)
1,1'-Biphenyl	mg/kg	-	-	ND (0.0049)	ND (0.0047)	0.243	0.0088 J	0.241	0.145	ND (0.0049)	ND (0.0048)	ND (0.0047)	0.0048 J
Benzaldehyde	mg/kg	-	-	ND (0.0089)	ND (0.0085)	ND (0.018)	ND (0.0089)	ND (0.0088)	ND (0.0090)	ND (0.0089)	ND (0.0086)	ND (0.0084)	ND (0.0086)
2-Chloronaphthalene	mg/kg	-	-	ND (0.0085)	ND (0.0082)	ND (0.017)	ND (0.0085)	ND (0.0085)	ND (0.0087)	ND (0.0086)	ND (0.0083)	ND (0.0081)	ND (0.0082)
4-Chloroaniline	mg/kg	-	-	ND (0.013)	ND (0.012)	ND (0.026)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.012)	ND (0.012)
Carbazole	mg/kg	-	-	ND (0.0052)	ND (0.0050)	ND (0.011)	ND (0.0052)	ND (0.0052)	ND (0.0053)	ND (0.0052)	ND (0.0050)	ND (0.0049)	ND (0.0050)
Caprolactam	mg/kg	-	-	ND (0.014) [d]	ND (0.014) [d]	ND (0.029) [e]	ND (0.014) [e]	ND (0.014) [e]	ND (0.014) [e]	ND (0.014) [e]	ND (0.014) [e]	ND (0.013) [e]	ND (0.014) [e]
Chrysene	mg/kg	1	3.9	ND (0.011)	ND (0.011)	ND (0.023)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	0.0119 J	0.0342	0.088
bis(2-Chloroethoxy)methane	mg/kg	-	-	ND (0.0077)	ND (0.0074)	ND (0.016)	ND (0.0077)	ND (0.0076)	ND (0.0078)	ND (0.0077)	ND (0.0074)	ND (0.0073)	ND (0.0074)
bis(2-Chloroethyl)ether	mg/kg	-	-	ND (0.015)	ND (0.015)	ND (0.031)	ND (0.015)	ND (0.015)	ND (0.016)	ND (0.016)	ND (0.015)	ND (0.015)	ND (0.015)

Table 3.1 - Soil Analytical Table
August 13 - September 3, 2021
136-140 Croton Avenue, Ossining, NY
Project No. 12060
SESI Consulting Engineers

Client Sample ID:		USCO	RRSCO	SB-16(4.5-5.0)	SB-17(6-6.5)	SB-18_2.0_2.5	SB-18_7.0_7.5	SB-19_3.0_3.5	SB-19_4.0_4.5	SB-20_3.0_3.5	SB-21_2.0_2.5	SB-22_2.0_2.5	SB-23_2.0_2.5
Lab Sample ID:				JD30019-5	JD30019-6	JD30962-1	JD30962-2	JD30962-3	JD30962-4	JD30962-5	JD30962-6	JD30962-7	JD30962-8
Date Sampled:				8/16/2021	8/16/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Depth:	Units			4.5-5.0'	6-6.5'	2.0-2.5'	7.0-7.5'	3.0-3.5'	4.0-4.5'	3.0-3.5'	2.0-2.5'	2.0-2.5'	2.0-2.5'
2,2'-Oxybis(1-chloropropane)	mg/kg	-	-	ND (0.013)	ND (0.012)	ND (0.026)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.012)	ND (0.012)	ND (0.012)
4-Chlorophenyl phenyl ether	mg/kg	-	-	ND (0.012)	ND (0.011)	ND (0.023)	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.011)	ND (0.011)
2,4-Dinitrotoluene	mg/kg	-	-	ND (0.011)	ND (0.011)	ND (0.022)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
2,6-Dinitrotoluene	mg/kg	-	-	ND (0.018) [c]	ND (0.017) [c]	ND (0.036)	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.017)	ND (0.017)	ND (0.017)
3,3'-Dichlorobenzidine	mg/kg	-	-	ND (0.030)	ND (0.029)	ND (0.060)	ND (0.030)	ND (0.030)	ND (0.030)	ND (0.030)	ND (0.029)	ND (0.028)	ND (0.029)
1,4-Dioxane	mg/kg	0.1	13	ND (0.024)	ND (0.023)	ND (0.048)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.024)	ND (0.023)	ND (0.022)	ND (0.023)
Dibenzo(a,h)anthracene	mg/kg	0.33	0.33	ND (0.016)	ND (0.015)	ND (0.032)	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.015)	ND (0.015)	0.0177 J
Dibenzofuran	mg/kg	7	59	ND (0.015)	ND (0.014)	0.0407 J	ND (0.015)	ND (0.014)	0.0179 J	ND (0.015)	ND (0.014)	ND (0.014)	ND (0.014)
Di-n-butyl phthalate	mg/kg	-	-	ND (0.0058)	ND (0.0056)	ND (0.012)	ND (0.0058)	ND (0.0058)	ND (0.0059)	ND (0.0059)	ND (0.0057)	ND (0.0055)	ND (0.0056)
Di-n-octyl phthalate	mg/kg	-	-	ND (0.0089)	ND (0.0086)	ND (0.018)	ND (0.0089)	ND (0.0088)	ND (0.0091)	ND (0.0090)	ND (0.0087)	ND (0.0085)	ND (0.0086)
Diethyl phthalate	mg/kg	-	-	ND (0.0076)	ND (0.0073)	ND (0.015)	ND (0.0076)	ND (0.0076)	ND (0.0078)	ND (0.0077)	ND (0.0074)	ND (0.0072)	ND (0.0074)
Dimethyl phthalate	mg/kg	-	-	ND (0.0064)	ND (0.0061)	ND (0.013)	ND (0.0064)	ND (0.0063)	ND (0.0065)	ND (0.0064)	ND (0.0062)	ND (0.0060)	ND (0.0062)
bis(2-Ethylhexyl)phthalate	mg/kg	-	-	ND (0.0084)	ND (0.0080)	ND (0.017)	ND (0.0084)	0.0726	0.0691 J	ND (0.0084)	ND (0.0081)	ND (0.0079)	0.13
Fluoranthene	mg/kg	100	100	ND (0.016)	ND (0.015)	0.0368 J	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.016)	0.0206 J	0.0689	0.149
Fluorene	mg/kg	30	100	ND (0.016)	ND (0.016)	0.112	ND (0.016)	0.0557	0.0381	ND (0.017)	ND (0.016)	ND (0.016)	ND (0.016)
Hexachlorobenzene	mg/kg	0.33	1.2	ND (0.0090)	ND (0.0087)	ND (0.018)	ND (0.0090)	ND (0.0090)	ND (0.0092)	ND (0.0091)	ND (0.0088)	ND (0.0086)	ND (0.0087)
Hexachlorobutadiene	mg/kg	-	-	ND (0.014)	ND (0.014)	ND (0.029)	ND (0.014)	ND (0.014)	ND (0.015)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)
Hexachlorocyclopentadiene	mg/kg	-	-	ND (0.014)	ND (0.014)	ND (0.029) [e]	ND (0.014) [e]	ND (0.014) [e]	ND (0.015) [e]	ND (0.014) [e]	ND (0.014) [e]	ND (0.014) [e]	ND (0.014) [e]
Hexachloroethane	mg/kg	-	-	ND (0.018)	ND (0.017)	ND (0.036)	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.017)	ND (0.017)	ND (0.017)
Indeno(1,2,3-cd)pyrene	mg/kg	0.5	0.5	ND (0.017)	ND (0.016)	ND (0.034)	ND (0.017)	ND (0.017)	ND (0.017)	ND (0.017)	ND (0.016)	0.0257 J	0.0708
Isophorone	mg/kg	-	-	ND (0.0077)	ND (0.0074)	ND (0.016)	ND (0.0077)	ND (0.0076)	ND (0.0078)	ND (0.0077)	ND (0.0074)	ND (0.0073)	ND (0.0074)
2-Methylnaphthalene	mg/kg	-	-	ND (0.0081)	ND (0.0078)	12.3	0.305	14.5	8.84	ND (0.0081)	ND (0.0079)	ND (0.0077)	ND (0.0078)
2-Nitroaniline	mg/kg	-	-	ND (0.0084)	ND (0.0081)	ND (0.017)	ND (0.0084)	ND (0.0084)	ND (0.0086)	ND (0.0085)	ND (0.0082)	ND (0.0080)	ND (0.0082)
3-Nitroaniline	mg/kg	-	-	ND (0.0089)	ND (0.0086)	ND (0.018)	ND (0.0089)	ND (0.0089)	ND (0.0091)	ND (0.0090)	ND (0.0087)	ND (0.0085)	ND (0.0086)
4-Nitroaniline	mg/kg	-	-	ND (0.0093)	ND (0.0089)	ND (0.019)	ND (0.0093)	ND (0.0092)	ND (0.0094)	ND (0.0093)	ND (0.0090)	ND (0.0088)	ND (0.0090)
Naphthalene	mg/kg	12	100	ND (0.010)	ND (0.0097)	**13.8**	0.202	**13.9**	8.26	ND (0.010)	ND (0.0098)	ND (0.0096)	ND (0.0098)
Nitrobenzene	mg/kg	-	15	ND (0.014)	ND (0.013)	ND (0.028)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.013)	ND (0.013)	ND (0.013)
N-Nitroso-di-n-propylamine	mg/kg	-	-	ND (0.010)	ND (0.0099)	ND (0.021)	ND (0.010)	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.010)	ND (0.0098)	ND (0.010)
N-Nitrosodiphenylamine	mg/kg	-	-	ND (0.013)	ND (0.013)	ND (0.027)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.012)	ND (0.013)
Phenanthrene	mg/kg	100	100	ND (0.012)	ND (0.012)	0.167	ND (0.012)	0.1	0.0628	ND (0.012)	ND (0.012)	0.0228 J	0.0581
Pyrene	mg/kg	100	100	ND (0.011)	ND (0.011)	0.0519 J	ND (0.011)	0.0208 J	ND (0.012)	ND (0.012)	0.0198 J	0.0606	0.16
1,2,4,5-Tetrachlorobenzene	mg/kg	-	-	ND (0.0091)	ND (0.0087)	ND (0.018)	ND (0.0091)	ND (0.0090)	ND (0.0093)	ND (0.0091)	ND (0.0088)	ND (0.0086)	ND (0.0088)
MS Semi-volatile TIC													
Total TIC, Semi-Volatile	mg/kg	-	-	0	0	274.26 J	8.73 J	164.86 J	132.98 J	0	1.06 J	0	4.12 J
GC/LC Semi-volatiles (SW846 8081B)													
Aldrin	mg/kg	0.005	0.097	ND (0.00056)	ND (0.00058)	NA	NA	NA	NA	NA	NA	NA	NA
alpha-BHC	mg/kg	0.02	0.48	ND (0.00055)	ND (0.00057)	NA	NA	NA	NA	NA	NA	NA	NA
beta-BHC	mg/kg	0.036	0.36	ND (0.00061)	ND (0.00063)	NA	NA	NA	NA	NA	NA	NA	NA
delta-BHC	mg/kg	0.04	100	ND (0.00065)	ND (0.00067)	NA	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	mg/kg	0.1	1.3	ND (0.00050)	ND (0.00052)	NA	NA	NA	NA	NA	NA	NA	NA
alpha-Chlordane	mg/kg	0.094	4.2	ND (0.00055)	ND (0.00056)	NA	NA	NA	NA	NA	NA	NA	NA
gamma-Chlordane	mg/kg	-	-	ND (0.00031)	ND (0.00032)	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	mg/kg	0.005	0.2	ND (0.00047)	ND (0.00048)	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDD	mg/kg	0.0033	13	ND (0.00062)	ND (0.00064)	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	mg/kg	0.0033	8.9	ND (0.00060)	ND (0.00061)	NA	NA	NA	NA	NA	NA	NA	NA

Table 3.1 - Soil Analytical Table
August 13 - September 3, 2021
136-140 Croton Avenue, Ossining, NY
Project No. 12060
SESI Consulting Engineers

Client Sample ID:		USCO	RRSCO	SB-16(4.5-5.0)	SB-17(6-6.5)	SB-18_2.0_2.5	SB-18_7.0_7.5	SB-19_3.0_3.5	SB-19_4.0_4.5	SB-20_3.0_3.5	SB-21_2.0_2.5	SB-22_2.0_2.5	SB-23_2.0_2.5
Lab Sample ID:				JD30019-5	JD30019-6	JD30962-1	JD30962-2	JD30962-3	JD30962-4	JD30962-5	JD30962-6	JD30962-7	JD30962-8
Date Sampled:				8/16/2021	8/16/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Depth:	Units			4.5-5.0'	6-6.5'	2.0-2.5'	7.0-7.5'	3.0-3.5'	4.0-4.5'	3.0-3.5'	2.0-2.5'	2.0-2.5'	2.0-2.5'
4,4'-DDT	mg/kg	0.0033	7.9	ND (0.00060)	ND (0.00062)	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	mg/kg	0.014	11	ND (0.00053)	ND (0.00054)	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	mg/kg	2.4	24	ND (0.00053)	ND (0.00055)	NA	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	mg/kg	-	-	ND (0.00039)	ND (0.00040)	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan-I	mg/kg	2.4	24	ND (0.00039)	ND (0.00040)	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan-II	mg/kg	2.4	24	ND (0.00042)	ND (0.00044)	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	mg/kg	0.042	2.1	ND (0.00059)	ND (0.00060)	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	mg/kg	-	-	ND (0.00048)	ND (0.00049)	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	mg/kg	-	-	ND (0.00054)	ND (0.00056)	NA	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	mg/kg	-	-	ND (0.00049)	ND (0.00051)	NA	NA	NA	NA	NA	NA	NA	NA
Toxaphene	mg/kg	-	-	ND (0.016)	ND (0.016)	NA	NA	NA	NA	NA	NA	NA	NA
GC/LC Semi-volatiles (SW846 8082A)													
Aroclor 1016	mg/kg	0.1	1	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.015)	ND (0.017)	ND (0.016)	ND (0.017)	ND (0.016)	ND (0.016)	ND (0.016)
Aroclor 1221	mg/kg	0.1	1	ND (0.021)	ND (0.022)	ND (0.021)	ND (0.020)	ND (0.022)	ND (0.021)	ND (0.023)	ND (0.021)	ND (0.021)	ND (0.021)
Aroclor 1232	mg/kg	0.1	1	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.023)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.021)	ND (0.022)
Aroclor 1242	mg/kg	0.1	1	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.013)	ND (0.015)	ND (0.014)	ND (0.015)	ND (0.014)	ND (0.014)	ND (0.014)
Aroclor 1248	mg/kg	0.1	1	ND (0.030)	ND (0.031)	ND (0.030)	ND (0.029)	ND (0.032)	ND (0.031)	ND (0.033)	ND (0.030)	ND (0.030)	ND (0.031)
Aroclor 1254	mg/kg	0.1	1	ND (0.018)	ND (0.019)	ND (0.018)	ND (0.018)	ND (0.019)	ND (0.019)	ND (0.020)	ND (0.018)	ND (0.018)	0.0196 J
Aroclor 1260	mg/kg	0.1	1	ND (0.014)	ND (0.015)	ND (0.014)	ND (0.014)	ND (0.015)	ND (0.015)	ND (0.016)	ND (0.015)	ND (0.014)	ND (0.015)
Aroclor 1268	mg/kg	0.1	1	ND (0.014)	ND (0.015)	ND (0.014)	ND (0.014)	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.014)	ND (0.014)	ND (0.014)
Aroclor 1262	mg/kg	0.1	1	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.021)	ND (0.023)	ND (0.023)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.022)
Metals Analysis													
Aluminum	mg/kg	-	-	15600	10700	12800	13500	14900	14800	13400	13000	12900	13300
Antimony	mg/kg	-	-	<4.3 [g]	<2.1	<2.2	<2.2	<2.2	<2.3	<2.2	<2.1	3	<2.3
Arsenic	mg/kg	13	16	<4.3 [g]	2.6	<4.4 [g]	<2.2	<4.4 [g]	<4.7 [g]	<4.4 [g]	<4.3 [g]	**85.4**	<4.6 [g]
Barium	mg/kg	350	400	160	128	139	165	141	142	135	125	122	144
Beryllium	mg/kg	7.2	72	1.0 [g]	0.74 [g]	0.54 [g]	0.56 [g]	0.66 [g]	0.63 [g]	0.63 [g]	0.57 [g]	<1.1 [g]	0.59 [g]
Cadmium	mg/kg	2.5	4.3	<1.1 [g]	<0.53	<1.1 [g]	<0.56	<1.1 [g]	<1.2 [g]	<1.1 [g]	<1.1 [g]	<0.56	<1.1 [g]
Calcium	mg/kg	-	-	8340	9090	4650	7010	2650	3270	2910	4570	10900	5880
Chromium	mg/kg	-	-	27.5	17.5	25.1	22.5	24.7	24.8	22.2	22.5	17.7	22.9
Cobalt	mg/kg	-	-	12.9 [g]	<11 [g]	<11 [g]	<11 [g]	11.4 [g]	<12 [g]	<11 [g]	<11 [g]	<28 [g]	<11 [g]
Copper	mg/kg	50	270	22.9 [g]	11.8	17.1 [g]	15.8	25.5 [g]	22.6 [g]	17.1 [g]	18.1 [g]	15.8	30.2 [g]
Iron	mg/kg	-	-	24800	18500	24700	21800	27300	24900	22800	23400	21200	26200
Lead	mg/kg	63	400	8.1 [g]	3.5	12.9 [g]	6.5	16.7 [g]	15.0 [g]	6.6 [g]	11.0 [g]	31.2	40.9 [g]
Magnesium	mg/kg	-	-	8340	6100	5680	7200	5800	5980	5370	5850	6080	6970
Manganese	mg/kg	1600	2000	624 [g]	228	267	405	368	463	319	298	336	321
Mercury	mg/kg	0.18	0.81	<0.030	<0.031	<0.034	<0.029	<0.029	<0.037	<0.030	<0.033	<0.035	<0.034
Nickel	mg/kg	30	310	27.7	15	16.8	18	21.8	20.3	17.8	16.8	15.4	17.9
Potassium	mg/kg	-	-	6230	5230	5370	6220	5580	5470	4950	5140	4130	5420
Selenium	mg/kg	3.9	180	<4.3 [g,h]	<2.1	<4.4 [g,h]	<2.2	<4.4 [g,h]	<4.7 [g,h]	<4.4 [g,h]	<4.3 [g,h]	**12.9**	<4.6 [g,h]
Silver	mg/kg	2	180	1.8 [g]	1.5 [g]	2.0 [g]	**2.3 [g]**	2.0 [g]	2.0 [g]	1.5 [g]	1.9 [g]	<2.8 [g,h]	2.0 [g]
Sodium	mg/kg	-	-	<1100	<1100	<1100	<1100	<1100	<1200	<1100	<1100	<1100	<1100
Thallium	mg/kg	-	-	<2.2 [g]	<2.1 [g]	<2.2 [g]	<2.2 [g]	<2.2 [g]	<2.3 [g]	<2.2 [g]	<2.1 [g]	<5.6 [g]	<2.3 [g]

Table 3.1 - Soil Analytical Table
August 13 - September 3, 2021
136-140 Croton Avenue, Ossining, NY
Project No. 12060
SESI Consulting Engineers

Client Sample ID:		USCO	RRSCO	SB-16(4.5-5.0)	SB-17(6-6.5)	SB-18_2.0_2.5	SB-18_7.0_7.5	SB-19_3.0_3.5	SB-19_4.0_4.5	SB-20_3.0_3.5	SB-21_2.0_2.5	SB-22_2.0_2.5	SB-23_2.0_2.5
Lab Sample ID:				JD30019-5	JD30019-6	JD30962-1	JD30962-2	JD30962-3	JD30962-4	JD30962-5	JD30962-6	JD30962-7	JD30962-8
Date Sampled:				8/16/2021	8/16/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Depth:	Units			4.5-5.0'	6-6.5'	2.0-2.5'	7.0-7.5'	3.0-3.5'	4.0-4.5'	3.0-3.5'	2.0-2.5'	2.0-2.5'	2.0-2.5'
Vanadium	mg/kg	-	-	38.1	27	33.7	32.1	33.2	34.3	33	30.8	37.3	35.8
Zinc	mg/kg	109	10000	54.8	43.3	97.5	50.7	58.7	58.7	50.8	50.9	42.9	68
General Chemistry													
Cyanide	mg/kg	27	27	<0.28	<0.30	NA	NA	NA	NA	NA	NA	NA	NA
Solids, Percent	%	-	-	92.6	95.4	91.4	91.7	91.4	89.7	90.5	91	92.9	92.1

Footnotes:

[a] Associated CCV outside of control limits low.

[b] Associated CCV outside of control limits high, sample was ND.
This compound in blank spike is outside in house QC limits bias high.
Associated CCV outside of control limits high, sample was ND.

[c] Associated CCV outside of control limits high, sample was ND.

[d] This compound in BS is outside in house QC limits bias high.

[e] Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

[f] More than 40 % RPD for detected concentrations between the two GC columns.

[g] Elevated detection limit due to dilution required for high interfering elemer

[h] Elevated detection limit over USCOs due to dilution required for high interfering element.

Additional Notes:

mg/kg = Miligrams per kilogram
ND = Not Detected
- = No soil cleanup objective established
NA = Not Analyzed
J = The reported result is an estimate. The value is less than the minimum calibration level but greater than the estimated detection limit (EDL)
USCO = NY Unrestricted Use Soil Cleanup Objectives (6 NYCRR 375-6 12/06)
RRSCO = NY Restricted Residential Use Soil Cleanup Objectives w/CP-51 (10/10) (6 NYCRR 375-6 12/06)

= Compound was detected
= Concentration exceeds USCOs
= Concentration exceeds RRSCOs

Table 3.3 - Groundwater Analytical Table
September 3, 2021
136-140 Croton Avenue, Ossining, NY
Project No. 12060
SESI Consulting Engineers

Client Sample ID:		AWQS	TW-1	TW-2
Lab Sample ID:			JD31011-1 & JD31011-1A	JD31011-2 & JD31011-2A
Date Sampled:			9/3/2021	9/3/2021
Matrix:	Units		Groundwater	Groundwater
MS Volatiles (SW846 8260D)				
Acetone	ug/l	50	26.9	7.9 J
Benzene	ug/l	1	**2.2**	**2.7**
Bromochloromethane	ug/l	5	ND (0.48)	ND (0.48)
Bromodichloromethane	ug/l	50	ND (0.45)	ND (0.45)
Bromoform	ug/l	50	ND (0.63)	ND (0.63)
Bromomethane	ug/l	5	ND (1.6)	ND (1.6)
2-Butanone (MEK)	ug/l	50	ND (6.9)	ND (6.9)
Carbon disulfide	ug/l	60	ND (0.46)	ND (0.46)
Carbon tetrachloride	ug/l	5	ND (0.55)	ND (0.55)
Chlorobenzene	ug/l	5	ND (0.56)	ND (0.56)
Chloroethane	ug/l	5	ND (0.73)	ND (0.73)
Chloroform	ug/l	7	ND (0.50)	ND (0.50)
Chloromethane	ug/l	5	ND (0.76)	ND (0.76)
Cyclohexane	ug/l	-	ND (0.78)	ND (0.78)
1,2-Dibromo-3-chloropropane	ug/l	0.04	ND (0.53) [e]	ND (0.53) [e]
Dibromochloromethane	ug/l	50	ND (0.56)	ND (0.56)
1,2-Dibromoethane	ug/l	0.0006	ND (0.48) [e]	ND (0.48) [e]
1,2-Dichlorobenzene	ug/l	3	ND (0.53)	ND (0.53)
1,3-Dichlorobenzene	ug/l	3	ND (0.54)	ND (0.54)
1,4-Dichlorobenzene	ug/l	3	ND (0.51)	ND (0.51)
Dichlorodifluoromethane	ug/l	5	ND (0.56) [a]	ND (0.56) [a]
1,1-Dichloroethane	ug/l	5	ND (0.57)	ND (0.57)
1,2-Dichloroethane	ug/l	0.6	ND (0.60)	ND (0.60)
1,1-Dichloroethene	ug/l	5	ND (0.59)	ND (0.59)
cis-1,2-Dichloroethene	ug/l	5	ND (0.51)	ND (0.51)
trans-1,2-Dichloroethene	ug/l	5	ND (0.54)	ND (0.54)
1,2-Dichloropropane	ug/l	1	ND (0.51)	ND (0.51)
cis-1,3-Dichloropropene	ug/l	0.4	ND (0.47) [e]	ND (0.47) [e]
trans-1,3-Dichloropropene	ug/l	0.4	ND (0.43) [e]	ND (0.43) [e]
Ethylbenzene	ug/l	5	**12.2**	**12.5**
Freon 113	ug/l	5	ND (0.58)	ND (0.58)
2-Hexanone	ug/l	50	ND (2.0)	ND (2.0)
Isopropylbenzene	ug/l	5	1.9	1.5
Methyl Acetate	ug/l	-	ND (0.80) [b]	ND (0.80) [b]
Methylcyclohexane	ug/l	-	1.1 J	0.87 J
Methyl Tert Butyl Ether	ug/l	10	ND (0.51)	ND (0.51)
4-Methyl-2-pentanone(MIBK)	ug/l	-	ND (1.9)	ND (1.9)
Methylene chloride	ug/l	5	ND (1.0) [b]	ND (1.0) [b]
Styrene	ug/l	5	ND (0.49)	ND (0.49)
1,1,2,2-Tetrachloroethane	ug/l	5	ND (0.65)	ND (0.65)
Tetrachloroethene	ug/l	5	ND (0.90)	ND (0.90)
Toluene	ug/l	5	**11.1**	**25.2**
1,2,3-Trichlorobenzene	ug/l	5	ND (0.50)	ND (0.50)
1,2,4-Trichlorobenzene	ug/l	5	ND (0.50)	ND (0.50)
1,1,1-Trichloroethane	ug/l	5	ND (0.54)	ND (0.54)

Table 3.3 - Groundwater Analytical Table
September 3, 2021
136-140 Croton Avenue, Ossining, NY
Project No. 12060
SESI Consulting Engineers

Client Sample ID:		AWQS	TW-1	TW-2
Lab Sample ID:			JD31011-1 & JD31011-1A	JD31011-2 & JD31011-2A
Date Sampled:			9/3/2021	9/3/2021
Matrix:	Units		Groundwater	Groundwater
1,1,2-Trichloroethane	ug/l	1	ND (0.53)	ND (0.53)
Trichloroethene	ug/l	5	ND (0.53)	ND (0.53)
Trichlorofluoromethane	ug/l	5	ND (0.40)	ND (0.40)
Vinyl chloride	ug/l	2	ND (0.79)	ND (0.79)
m,p-Xylene	ug/l	-	44.7	93.9
o-Xylene	ug/l	5	**18.2**	**49.1**
Xylene (total)	ug/l	5	**62.9**	**143**
MS Volatile TIC				
Total TIC, Volatile	ug/l	-	122.5 J	233.5 J
MS Semi-volatiles (EPA 537M BY ID)				
Perfluorobutanoic acid	ng/l	-	2.8 J	ND (3.4)
Perfluoropentanoic acid	ng/l	-	1.4 J	ND (1.7)
Perfluorohexanoic acid	ng/l	-	1.5 J	ND (1.7)
Perfluoroheptanoic acid	ng/l	-	ND (1.3)	ND (1.7)
Perfluorooctanoic acid	ng/l	10	2.8	ND (1.7)
Perfluorononanoic acid	ng/l	-	ND (1.3)	ND (1.7)
Perfluorodecanoic acid	ng/l	-	ND (1.3)	ND (1.7)
Perfluoroundecanoic acid	ng/l	-	ND (1.3)	ND (1.7)
Perfluorododecanoic acid	ng/l	-	ND (1.3)	ND (1.7)
Perfluorotridecanoic acid	ng/l	-	ND (1.3)	ND (1.7)
Perfluorotetradecanoic acid	ng/l	-	ND (1.3)	ND (8.6) [c]
Perfluorobutanesulfonic acid	ng/l	-	1.6 J	ND (1.7)
Perfluorohexanesulfonic acid	ng/l	-	2.7	ND (1.7)
Perfluoroheptanesulfonic acid	ng/l	-	ND (1.3)	ND (1.7)
Perfluorooctanesulfonic acid	ng/l	10	1.3 J	ND (1.7)
Perfluorodecanesulfonic acid	ng/l	-	ND (1.3)	ND (1.7)
PFOSA	ng/l	-	ND (2.5)	ND (3.4)
MeFOSAA	ng/l	-	ND (2.5)	ND (3.4)
EtFOSAA	ng/l	-	ND (2.5)	ND (3.4)
6:2 Fluorotelomer sulfonate	ng/l	-	36.3	59.7
8:2 Fluorotelomer sulfonate	ng/l	-	ND (2.5)	ND (3.4)
MS Semi-volatiles (SW846 8270E)				
2-Chlorophenol	ug/l	-	ND (0.91)	ND (0.60)
4-Chloro-3-methyl phenol	ug/l	-	ND (0.99)	ND (0.66)
2,4-Dichlorophenol	ug/l	1	ND (1.4) [e]	ND (0.93)
2,4-Dimethylphenol	ug/l	1	ND (2.7) [e]	ND (1.8) [e]
2,4-Dinitrophenol	ug/l	1	ND (1.7) [e]	ND (1.1) [e]
4,6-Dinitro-o-cresol	ug/l	-	ND (1.4)	ND (0.96)
2-Methylphenol	ug/l	-	1.1 J	0.68 J
3&4-Methylphenol	ug/l	-	1.1 J	1.3 J
2-Nitrophenol	ug/l	-	ND (1.1)	ND (0.71)

Table 3.3 - Groundwater Analytical Table
September 3, 2021
136-140 Croton Avenue, Ossining, NY
Project No. 12060
SESI Consulting Engineers

Client Sample ID:		AWQS	TW-1	TW-2
Lab Sample ID:			JD31011-1 & JD31011-1A	JD31011-2 & JD31011-2A
Date Sampled:			9/3/2021	9/3/2021
Matrix:	Units		Groundwater	Groundwater
4-Nitrophenol	ug/l	-	ND (1.3)	ND (0.85)
Pentachlorophenol	ug/l	1	ND (1.5) [e]	ND (1.0)
Phenol	ug/l	1	ND (0.44)	ND (0.29)
2,3,4,6-Tetrachlorophenol	ug/l	-	ND (1.6)	ND (1.1)
2,4,5-Trichlorophenol	ug/l	-	ND (1.5)	ND (0.98)
2,4,6-Trichlorophenol	ug/l	-	ND (1.0)	ND (0.68)
Acenaphthene	ug/l	20	ND (0.21)	ND (0.14)
Acenaphthylene	ug/l	-	ND (0.15)	0.31 J
Acetophenone	ug/l	-	ND (0.23)	ND (0.15)
Anthracene	ug/l	50	ND (0.23)	ND (0.16)
Atrazine	ug/l	7.5	ND (0.50)	ND (0.33)
Benzaldehyde	ug/l	-	ND (0.32)	ND (0.21)
Benzo(a)anthracene	ug/l	0.002	ND (0.23) [e]	ND (0.15) [e]
Benzo(a)pyrene	ug/l	0.002	ND (0.24) [e]	ND (0.16) [e]
Benzo(b)fluoranthene	ug/l	0.002	ND (0.23) [e]	ND (0.15) [e]
Benzo(g,h,i)perylene	ug/l	-	ND (0.38)	ND (0.25)
Benzo(k)fluoranthene	ug/l	0.002	ND (0.23) [e]	ND (0.15) [e]
4-Bromophenyl phenyl ether	ug/l	-	ND (0.45)	ND (0.30)
Butyl benzyl phthalate	ug/l	50	ND (0.51)	ND (0.34)
1,1'-Biphenyl	ug/l	5	ND (0.24)	0.28 J
2-Chloronaphthalene	ug/l	10	ND (0.26)	ND (0.17)
4-Chloroaniline	ug/l	5	ND (0.38)	ND (0.25)
Carbazole	ug/l	-	ND (0.25)	ND (0.17)
Caprolactam	ug/l	-	132	66.4
Chrysene	ug/l	0.002	ND (0.20) [e]	ND (0.13) [e]
bis(2-Chloroethoxy)methane	ug/l	5	ND (0.31)	ND (0.20)
bis(2-Chloroethyl)ether	ug/l	1	ND (0.28)	ND (0.18)
2,2'-Oxybis(1-chloropropane)	ug/l	5	ND (0.45)	ND (0.30)
4-Chlorophenyl phenyl ether	ug/l	-	ND (0.41)	ND (0.27)
2,4-Dinitrotoluene	ug/l	5	ND (0.61)	ND (0.41)
2,6-Dinitrotoluene	ug/l	5	ND (0.53)	ND (0.35)
3,3'-Dichlorobenzidine	ug/l	5	ND (0.56)	ND (0.37)
1,4-Dioxane	ug/l	-	ND (0.73)	0.92
Dibenzo(a,h)anthracene	ug/l	-	ND (0.37)	ND (0.24)
Dibenzofuran	ug/l	-	ND (0.24)	ND (0.16)
Di-n-butyl phthalate	ug/l	50	35.4 B	8.0 B
Di-n-octyl phthalate	ug/l	50	ND (0.26)	ND (0.17)
Diethyl phthalate	ug/l	50	11.6	3.2
Dimethyl phthalate	ug/l	50	ND (0.24)	ND (0.16)
bis(2-Ethylhexyl)phthalate	ug/l	5	ND (1.8)	ND (1.2)
Fluoranthene	ug/l	50	ND (0.19)	ND (0.12)
Fluorene	ug/l	50	ND (0.19)	ND (0.13)
Hexachlorobenzene	ug/l	0.04	ND (0.36) [e]	ND (0.24) [e]
Hexachlorobutadiene	ug/l	0.5	ND (0.55) [e]	ND (0.36)
Hexachlorocyclopentadiene	ug/l	5	ND (3.1) [a]	ND (2.0) [a]
Hexachloroethane	ug/l	5	ND (0.43)	ND (0.29)

Table 3.3 - Groundwater Analytical Table
September 3, 2021
136-140 Croton Avenue, Ossining, NY
Project No. 12060
SESI Consulting Engineers

Client Sample ID:		AWQS	TW-1	TW-2
Lab Sample ID:			JD31011-1 & JD31011-1A	JD31011-2 & JD31011-2A
Date Sampled:			9/3/2021	9/3/2021
Matrix:	Units		Groundwater	Groundwater
Indeno(1,2,3-cd)pyrene	ug/l	0.002	ND (0.37) [e]	ND (0.24) [e]
Isophorone	ug/l	50	ND (0.31)	ND (0.20)
2-Methylnaphthalene	ug/l	50	3.3	10.2
2-Nitroaniline	ug/l	5	ND (0.31)	ND (0.20)
3-Nitroaniline	ug/l	5	ND (0.43)	ND (0.28)
4-Nitroaniline	ug/l	5	ND (0.49)	ND (0.32)
Naphthalene	ug/l	10	4.7	**16.3**
Nitrobenzene	ug/l	0.4	ND (0.71) [e]	ND (0.47) [e]
N-Nitroso-di-n-propylamine	ug/l	-	ND (0.53)	ND (0.35)
N-Nitrosodiphenylamine	ug/l	-	ND (0.25)	ND (0.16)
Phenanthrene	ug/l	50	ND (0.19)	ND (0.13)
Pyrene	ug/l	50	ND (0.24)	ND (0.16)
1,2,4,5-Tetrachlorobenzene	ug/l	5	ND (0.41)	ND (0.27)
MS Semi-volatiles (SW846 8270E BY SIM)				
1,4-Dioxane	ug/l	-	0.219	1.22
MS Semi-volatile TIC				
Total TIC, Semi-Volatile	ug/l	-	217.4 J	351.6 J
GC/LC Semi-volatiles (SW846 8081B)				
Aldrin	ug/l	ND	ND (0.0046)	ND (0.0046)
alpha-BHC	ug/l	0.01	ND (0.0046)	ND (0.0046)
beta-BHC	ug/l	0.04	ND (0.0071)	ND (0.0071)
delta-BHC	ug/l	0.04	ND (0.0058)	ND (0.0058)
gamma-BHC (Lindane)	ug/l	0.05	ND (0.0053)	ND (0.0053)
alpha-Chlordane	ug/l	-	ND (0.0044)	ND (0.0044)
gamma-Chlordane	ug/l	-	ND (0.0038)	ND (0.0038)
Dieldrin	ug/l	0.004	ND (0.0068) [e]	ND (0.0068) [e]
4,4'-DDD	ug/l	0.3	ND (0.0051)	ND (0.0051)
4,4'-DDE	ug/l	0.2	ND (0.0045)	ND (0.0045)
4,4'-DDT	ug/l	0.2	ND (0.0061)	ND (0.0061)
Endrin	ug/l	ND	ND (0.0054)	ND (0.0054)
Endosulfan sulfate	ug/l	-	ND (0.0048)	ND (0.0048)
Endrin aldehyde	ug/l	5	ND (0.0060)	ND (0.0060)
Endrin ketone	ug/l	5	ND (0.0055)	ND (0.0055)
Endosulfan-I	ug/l	-	ND (0.0047)	ND (0.0047)
Endosulfan-II	ug/l	-	ND (0.0043)	ND (0.0043)
Heptachlor	ug/l	0.04	ND (0.0040)	ND (0.0040)
Heptachlor epoxide	ug/l	0.03	ND (0.0053)	ND (0.0053)
Methoxychlor	ug/l	35	ND (0.0060)	ND (0.0060)
Toxaphene	ug/l	0.06	ND (0.14) [e]	ND (0.14) [e]

Table 3.3 - Groundwater Analytical Table
September 3, 2021
136-140 Croton Avenue, Ossining, NY
Project No. 12060
SESI Consulting Engineers

Client Sample ID:		AWQS	TW-1	TW-2
Lab Sample ID:			JD31011-1 & JD31011-1A	JD31011-2 & JD31011-2A
Date Sampled:			9/3/2021	9/3/2021
Matrix:	Units		Groundwater	Groundwater
GC/LC Semi-volatiles (SW846 8082A)				
Aroclor 1016	ug/l	0.09	ND (0.17) [e]	NA
Aroclor 1221	ug/l	0.09	ND (0.37) [e]	NA
Aroclor 1232	ug/l	0.09	ND (0.23) [e]	NA
Aroclor 1242	ug/l	0.09	ND (0.20) [e]	NA
Aroclor 1248	ug/l	0.09	ND (0.11) [e]	NA
Aroclor 1254	ug/l	0.09	ND (0.37) [e]	NA
Aroclor 1260	ug/l	0.09	ND (0.14) [e]	NA
Aroclor 1268	ug/l	0.09	ND (0.15) [e]	NA
Aroclor 1262	ug/l	0.09	ND (0.17) [e]	NA
Metals Analysis				
Aluminum	ug/l	-	393000	NA
Antimony	ug/l	3	<30 [d,e]	NA
Arsenic	ug/l	25	**29.6** [d]	NA
Barium	ug/l	1000	**4140**	NA
Beryllium	ug/l	3	10.9 [d]	NA
Cadmium	ug/l	5	<15 [d,e]	NA
Calcium	ug/l	-	497000	NA
Chromium	ug/l	50	**728** [d]	NA
Cobalt	ug/l	-	<250 [d]	NA
Copper	ug/l	200	**485** [d]	NA
Iron	ug/l	300	**602000**	NA
Lead	ug/l	25	**194** [d]	NA
Magnesium	ug/l	35000	402000	NA
Manganese	ug/l	300	**9180** [d]	NA
Mercury	ug/l	0.7	<1.2 [e]	NA
Nickel	ug/l	100	**481** [d]	NA
Potassium	ug/l	-	196000 [d]	NA
Selenium	ug/l	10	<50 [d,e]	NA
Silver	ug/l	50	**59.4** [d]	NA
Sodium	ug/l	20000	**24400**	NA
Thallium	ug/l	-	<50 [d]	NA
Vanadium	ug/l	-	766	NA
Zinc	ug/l	2000	1670	NA
General Chemistry				
Cyanide	ug/l	200	<10	NA

Table 3.3 - Groundwater Analytical Table
September 3, 2021
136-140 Croton Avenue, Ossining, NY
Project No. 12060
SESI Consulting Engineers

Client Sample ID:		AWQS	TW-1	TW-2
Lab Sample ID:			JD31011-1 & JD31011-1A	JD31011-2 & JD31011-2A
Date Sampled:			9/3/2021	9/3/2021
Matrix:	Units		Groundwater	Groundwater

Notes:

NYSDEC = New York State Department of Environmental Conservation.

AWQS = Ambient Water Quality Standards.

ND = Compound not detected.

ug/l = Micrograms per liter.

ng/l = Nanograms per liter

- = No AWQS established

J = The reported result is an estimate. The value is less than the minimum calibration level but greater than the estimated detection limit (EDL).

NT = Not Tested

[a] = Associated CCV outside of control limits high, sample was ND.

[b] = Associated CCV outside of control limits low.

[c] = Associated ID Standard outside control limits due to matrix interference. Confirmed by reanalysis.

[d] = Elevated detection limit due to dilution required for high interfering element.

[e] = Detection limit above AWQS or associated guidance

= Compound was detected

= Concentration of compound exceeds the AWQS

[1] **NOTE: The above contain the following criteria that must be evaluated manually by the user:**

Sum of Aldicarb and Methomyl at 0.35 ug/l.

Sum of Iron and Manganese at 500 ug/l.

Sum of Parathion and Methyl parathion at 1.5 ug/l.

Sum of Phenolic compounds (total phenols) at 1 ug/l.

Sum of Phenols, total chlorinated at 1 ug/l.

Sum of Phenols, total unchlorinated at 1 ug/l.
Principal organic contaminant at 5 ug/l defined as "any and every individual substance, whether listed in this Table or not, that is in one of the principal organic contaminant classes as defined in section 700.1 of this Title" unless listed elsewhere in this table.

Table 3.5 - Soil Gas and Ambient Air Analytical Table
August 16, 2021
136-140 Croton Avenue, Ossining, NY
Project No. 12060
SESI Consulting Engineers

Client Sample ID:	NYSDOH Matrix A	NYSDOH Matrix B	NYSDOH Matrix C	SG-1	SG-2	SG-3	SG-4	SG-5	AA-1
Lab Sample ID:				JD30012-1	JD30012-2	JD30012-3	JD30012-4	JD30012-5	JD30012-6
Date Sampled:				8/16/2021	8/16/2021	8/16/2021	8/16/2021	8/16/2021	8/16/2021
Matrix:				Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Ambient Air
MS Volatiles (TO-15) - ug/m3									
Acetone (2-Propanone)				20300	164	615	216000	511	7.8
1,3-Butadiene				ND (130)	221	113	ND (690)	143	ND (0.082)
Benzene				8210	37.1	26	28500	48.6	0.42 J
Bromodichloromethane				ND (230)	ND (3.6)	ND (3.6)	ND (1200)	ND (3.6)	ND (0.14)
Bromoform				ND (500)	ND (7.8)	ND (7.8)	ND (2600)	ND (7.8)	ND (0.31)
Bromomethane				ND (110)	ND (1.7)	ND (1.7)	ND (580)	ND (1.7)	ND (0.070)
Bromoethene				ND (120)	ND (1.9)	ND (1.9)	ND (660)	ND (1.9)	ND (0.079)
Benzyl Chloride				ND (370)	ND (5.7)	ND (5.7)	ND (2000)	ND (5.7)	ND (0.23)
Carbon disulfide				ND (93)	24	9.0 J	ND (500)	17	ND (0.059)
Chlorobenzene				ND (160)	ND (2.4)	ND (2.4)	ND (830)	ND (2.4)	ND (0.097)
Chloroethane				ND (160)	ND (2.6)	ND (2.6)	ND (870)	ND (2.6)	ND (0.10)
Chloroform				ND (120)	ND (2.0)	ND (2.0)	ND (630)	ND (2.0)	ND (0.078)
Chloromethane				ND (41)	6.4 J	ND (0.64)	ND (210)	19	0.85
3-Chloropropene				ND (160)	ND (2.5)	ND (2.5)	ND (850)	ND (2.5)	ND (0.10)
2-Chlorotoluene				ND (170)	ND (2.6)	ND (2.6)	ND (880)	ND (2.6)	ND (0.10)
Carbon tetrachloride	6			ND (190)	ND (3.0)	ND (3.0)	ND (1000)	ND (3.0)	0.43
Cyclohexane				ND (96)	ND (1.5)	ND (1.5)	888000	17	ND (0.062)
1,1-Dichloroethane	6			ND (61)	ND (0.93)	ND (0.93)	ND (320)	ND (0.93)	ND (0.038)
1,1-Dichloroethylene				ND (83)	ND (1.3)	ND (1.3)	ND (440)	ND (1.3)	ND (0.052)
1,2-Dibromoethane (EDB)				ND (180)	ND (2.8)	ND (2.8)	ND (920)	ND (2.8)	ND (0.11)
1,2-Dichloroethane				ND (110)	ND (1.7)	ND (1.7)	ND (570)	ND (1.7)	ND (0.069)
1,2-Dichloropropane				ND (120)	ND (1.8)	ND (1.8)	ND (600)	ND (1.8)	ND (0.069)
1,4-Dioxane				ND (240)	ND (3.6)	ND (3.6)	ND (1300)	ND (3.6)	ND (0.15)
Dichlorodifluoromethane				ND (100)	ND (1.6)	ND (1.6)	ND (540)	ND (1.6)	1.8
Dibromochloromethane				ND (370)	ND (5.7)	ND (5.7)	ND (2000)	ND (5.7)	ND (0.23)
trans-1,2-Dichloroethylene				ND (37)	ND (0.59)	ND (0.59)	ND (190)	ND (0.59)	ND (0.023)
cis-1,2-Dichloroethylene	6			ND (59)	ND (0.91)	ND (0.91)	ND (310)	ND (0.91)	ND (0.037)
cis-1,3-Dichloropropene				ND (110)	ND (1.8)	ND (1.8)	ND (590)	ND (1.8)	ND (0.073)
m-Dichlorobenzene				ND (140)	ND (2.3)	ND (2.3)	ND (780)	ND (2.3)	ND (0.090)
o-Dichlorobenzene				ND (170)	ND (2.6)	ND (2.6)	ND (900)	ND (2.6)	ND (0.10)
p-Dichlorobenzene				ND (130)	ND (2.1)	ND (2.1)	ND (720)	ND (2.1)	ND (0.084)
trans-1,3-Dichloropropene				ND (110)	ND (1.8)	ND (1.8)	ND (590)	ND (1.8)	ND (0.073)
Ethanol				ND (530)	51.8	360	ND (2800)	383	3.8
Ethylbenzene				5170	39	25	62100	20	0.42 J
Ethyl Acetate				ND (170)	33	66.2	ND (900)	34	6.1
4-Ethyltoluene				ND (190)	30	ND (2.9)	ND (980)	ND (2.9)	ND (0.12)
Freon 113				ND (170)	ND (2.6)	ND (2.6)	ND (920)	ND (2.6)	ND (0.11)
Freon 114				ND (170)	ND (2.7)	ND (2.7)	ND (910)	ND (2.7)	ND (0.10)
Heptane				68800	41	27	2490000	27	1.6
Hexachlorobutadiene				ND (620)	ND (9.7)	ND (9.7)	ND (3300)	ND (9.7)	ND (0.38)
Hexane				133000	93.8	44.8	4830000	51.1	2.9
2-Hexanone				ND (190)	ND (3.0)	62.6	ND (1000)	ND (3.0)	ND (0.12)
Isopropyl Alcohol				ND (200)	33.7	221	ND (1100)	415	0.74
Methylene chloride		100		ND (66)	67	147	ND (340)	504	1.4
Methyl ethyl ketone				ND (160)	112	442	ND (830)	472	0.86
Methyl Isobutyl Ketone				ND (190)	18	25	ND (980)	27	ND (0.12)
Methyl Tert Butyl Ether				ND (90)	ND (1.4)	ND (1.4)	ND (470)	ND (1.4)	ND (0.054)
Methylmethacrylate				ND (170)	ND (2.7)	ND (2.7)	ND (900)	ND (2.7)	ND (0.11)
Propylene				605 J	3320	742	ND (190)	989	ND (0.022)
Styrene				ND (100)	ND (1.6)	ND (1.6)	ND (550)	ND (1.6)	ND (0.064)
1,1,1-Trichloroethane		100		ND (230)	ND (3.6)	ND (3.6)	ND (1200)	ND (3.6)	ND (0.15)
1,1,2,2-Tetrachloroethane				ND (240)	ND (3.7)	ND (3.7)	ND (1200)	ND (3.7)	ND (0.15)
1,1,2-Trichloroethane				ND (210)	ND (3.3)	ND (3.3)	ND (1100)	ND (3.3)	ND (0.13)
1,2,4-Trichlorobenzene				ND (820)	ND (13)	ND (13)	ND (4500)	ND (13)	ND (0.53)
1,2,4-Trimethylbenzene				ND (210)	33	ND (3.2)	ND (1100)	ND (3.2)	0.88
1,3,5-Trimethylbenzene				ND (210)	9.3 J	ND (3.3)	ND (1100)	ND (3.3)	ND (0.13)
2,2,4-Trimethylpentane				403000	46	27	395000	14 J	0.93
Tertiary Butyl Alcohol				ND (55)	30	57.9	ND (280)	58.5	ND (0.033)
Tetrachloroethylene		100		ND (260)	ND (4.2)	ND (4.2)	ND (1400)	ND (4.2)	0.21 J
Tetrahydrofuran				ND (190)	ND (2.9)	24	ND (1000)	ND (2.9)	ND (0.12)
Toluene				2860	193	170	211000	159	1.3
Trichloroethylene	6			ND (130)	ND (2.0)	ND (2.0)	ND (700)	ND (2.0)	ND (0.081)
Trichlorofluoromethane				ND (200)	ND (3.1)	ND (3.1)	ND (1100)	ND (3.1)	1.3
Vinyl chloride			6	ND (74)	ND (1.2)	ND (1.2)	ND (380)	12	ND (0.046)
Vinyl Acetate				ND (150)	ND (2.4)	ND (2.4)	ND (810)	ND (2.4)	ND (0.095)
m,p-Xylene				6120	154	89.9	113000	62.5	1.5
o-Xylene				1750	47.3	28	24200	22	0.52 J
Xylenes (total)				7860	202	119	137000	84.3	2

Notes:

NYSDOH Matrix A - NYSDOH Matrix A Sub-slab Vapor Concentration Criteria Lower Threshold
NYSDOH Matrix B - NYSDOH Matrix B Sub-slab Vapor Concentration Criteria Lower Threshold
NYSDOH Matrix C - NYSDOH Matrix C Sub-slab Vapor Concentration Criteria Lower Threshold
J - Estimate value
ND - Compound not detected
ug/m3 - Micrograms per cubic meter
Compound was detected
Concentration of compound exceeds the NYSDOH Matrix A Sub-Slab Vapor Concentrations Criteria

Appendix A:

Previous Environmental Reports

NYSDEC BROWNFIELD CLEANUP PROGRAM APPLICATION

136-140 CROTON AVENUE
BLOCK 7, LOTS 79 & 80
OSSINING, NEW YORK

PREPARED FOR:
AMAK DEVELOPMENT, LLC
116 GREENWICH AVENUE,
GREENWICH, CONNECTICUT 06830

BCP Application
(Electronic):

HALEY & ALDRICH OF NEW YORK.| 237 WEST 35TH STREET, 16TH FLOOR, NEW YORK, NEW YORK 10123

Haley & Aldrich of New York
237 West 35th Street
16th Floor
New York, NY 10123
Tel: 646.277.5686

10 November 2020
File No. 134347-002

Chief, Site Control Section
New York Start Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 11th Floor
Albany, New York 12233

Subject: Brownfield Cleanup Program Application
136-140 Croton Avenue
Ossining, New York 10562 (Site)

Ladies and Gentlemen,

Haley & Aldrich of New York, on behalf of Amak Development LLC has prepared this revised Brownfield Cleanup Program Application for the above referenced Site pursuant to the Pre-Application Meeting on 13 August 2020 and comments in the Letter of Incompleteness dated 3 November 2020. Enclosed in this package is a USB drive which contains the following: 1) Phase I Site Assessment dated 30 November 2017 entitled "Phase I Environmental Site Assessment" and 2) Phase II Subsurface Investigation dated 30 November 2017 entitled "Phase II Subsurface Investigation".

Comments have been addressed as follows:

Section I:
- All names of members of Amak Development LLC have been added.

Section II:
- Project schedule has been revised to reflect Certificate of Completion expected date in Fall 2021.

Section III:
- Reports are provided separately on a USB attached at Section III
- Soil results have been compared to the Restricted Residential Soil Cleanup Objectives
- Standards have been corrected in Section III.2
- Standards have been revised in the Figure

Section IV:
- The Environmental Assessment has been revised into the prescribed format

Section X:
- An explanation has been provided describing how the proposed use is consistent with applicable community master plans.

Section XI:
- The name of the requestor has been revised and signature page reattached

Should you have any questions, please do not hesitate to contact me at (646) 277-5686 or via email at jbellew@haleyaldrich.com.

Thank you.



James M. Bellew
Senior Associate

Enclosed copies provided via email to:

Dmitri Daniarov & Susan Gerov (Amak Development LLC.)	Email: gpgllc@yahoo.com
Diana Rubin (Law Offices of Diana Rubin	Email: dianarubinatty@gmail.com
Gerard Burke (NYSDEC)	Email: Gerard.burke@dec.ny.gov
Janet Brown (NYSDEC)	Email: janet.brown@dec.ny.gov
William Bennett (NYSDEC)	Email: william.bennett@dec.ny.gov

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

BROWNFIELD CLEANUP PROGRAM (BCP) APPLICATION FORM

DEC requires an application to request major changes to the description of the property set forth in a Brownfield Cleanup Agreement, or "*BCA*" (e.g., adding a significant amount of new property, or adding property that could affect an eligibility determination due to contamination levels or intended land use). Such application must be submitted and processed in the same manner as the original application, including the required public comment period. **Is this an application to amend an existing BCA?**

☐ **Yes** ☑ **No** **If yes, provide existing site number:** _____

PART A (note: application is separated into Parts A and B for DEC review purposes) ***BCP App Rev 10***

Section I. Requestor Information - See Instructions for Further Guidance

DEC USE ONLY
BCP SITE #: _____

NAME Amak Development LLC

ADDRESS 136 Croton Avenue

CITY/TOWN Ossining ZIP CODE 10562

PHONE 203-809-0880 | FAX | E-MAIL gpgllc@yahoo.com

Is the requestor authorized to conduct business in New York State (NYS)? ☑ Yes ☐ No

- If the requestor is a Corporation, LLC, LLP or other entity requiring authorization from the NYS Department of State to conduct business in NYS, the requestor's name must appear, exactly as given above, in the NYS Department of State's Corporation & Business Entity Database. A print-out of entity information from the database must be submitted to the New York State Department of Environmental Conservation (DEC) with the application to document that the requestor is authorized to do business in NYS. **Please note:** If the requestor is an LLC, the members/owners names need to be provided on a separate attachment.

Do all individuals that will be certifying documents meet the requirements detailed below? ☑ Yes ☐ No

- Individuals that will be certifying BCP documents, as well as their employers, meet the requirements of Section 1.5 of *DER-10: Technical Guidance for Site Investigation and Remediation* and Article 145 of New York State Education Law. **Documents that are not properly certified will be not approved under the BCP**.

Section II. Project Description

1. What stage is the project starting at? ☑ Investigation ☐ Remediation

NOTE: If the project is proposed to start at the remediation stage, a Remedial Investigation Report (RIR) at a minimum is required to be attached, resulting in a 30-day public comment period. If an Alternatives Analysis and Remedial Work Plan are also attached (see DER-10 / Technical Guidance for Site Investigation and Remediation for further guidance) then a 45-day public comment period is required.

2. If a final RIR is included, please verify it meets the requirements of Environmental Conservation Law (ECL) Article 27-1415(2): ☐ Yes ☑ No

3. Please attach a short description of the overall development project, including:

- the date that the remedial program is to start; and
- the date the Certificate of Completion is anticipated.

Section III. Property's Environmental History

All applications **must include** an Investigation Report (per ECL 27-1407(1)). The report must be sufficient to establish contamination of environmental media on the site above applicable Standards, Criteria and Guidance (SCGs) based on the reasonably anticipated use of the property.

To the extent that existing information/studies/reports are available to the requestor, please attach the following (***please submit the information requested in this section in electronic format only***):

1. **Reports:** an example of an Investigation Report is a Phase II Environmental Site Assessment report prepared in accordance with the latest American Society for Testing and Materials standard (ASTM E1903). **Please submit a separate electronic copy of each report in Portable Document Format (PDF).**

2. SAMPLING DATA: INDICATE KNOWN CONTAMINANTS AND THE MEDIA WHICH ARE KNOWN TO HAVE BEEN AFFECTED. LABORATORY REPORTS SHOULD BE REFERENCED AND COPIES INCLUDED.

Contaminant Category	Soil	Groundwater	Soil Gas
Petroleum	yes	not sampled	
Chlorinated Solvents			
Other VOCs		not sampled	
SVOCs	yes		
Metals	yes	not sampled	
Pesticides	not sampled	not sampled	
PCBs			
Other*	yes	not sampled	

***Please describe:** see attached

3. FOR EACH IMPACTED MEDIUM INDICATED ABOVE, INCLUDE A SITE DRAWING INDICATING:

- **SAMPLE LOCATION**
- **DATE OF SAMPLING EVENT**
- **KEY CONTAMINANTS AND CONCENTRATION DETECTED**
- **FOR SOIL, HIGHLIGHT IF ABOVE REASONABLY ANTICIPATED USE**
- **FOR GROUNDWATER, HIGHLIGHT EXCEEDANCES OF 6NYCRR PART 703.5**
- **FOR SOIL GAS/ SOIL VAPOR/ INDOOR AIR, HIGHLIGHT IF ABOVE MITIGATE LEVELS ON THE NEW YORK STATE DEPARTMENT OF HEALTH MATRIX**

THESE DRAWINGS ARE TO BE REPRESENTATIVE OF ALL DATA BEING RELIED UPON TO MAKE THE CASE THAT THE SITE IS IN NEED OF REMEDIATION UNDER THE BCP. DRAWINGS SHOULD NOT BE BIGGER THAN 11" X 17". THESE DRAWINGS SHOULD BE PREPARED IN ACCORDANCE WITH ANY GUIDANCE PROVIDED.

ARE THE REQUIRED MAPS INCLUDED WITH THE APPLICATION?* ☑ **Yes** ☐ **No**
(*answering No will result in an incomplete application)

4. INDICATE PAST LAND USES (CHECK ALL THAT APPLY):

☐ Coal Gas Manufacturing	☐ Manufacturing	☐ Agricultural Co-op	☐ Dry Cleaner
☐ Salvage Yard	☐ Bulk Plant	☐ Pipeline	☑ Service Station
☐ Landfill	☐ Tannery	☐ Electroplating	☐ Unknown

Other: nursery

Section IV. Property Information - See Instructions for Further Guidance

PROPOSED SITE NAME 136-140 Croton Avenue

ADDRESS/LOCATION 136-140 Croton Avenue

CITY/TOWN Ossining ZIP CODE 10562

MUNICIPALITY(IF MORE THAN ONE, LIST ALL): Ossining

COUNTY Westchester SITE SIZE (ACRES) 0.8

LATITUDE (degrees/minutes/seconds)	LONGITUDE (degrees/minutes/seconds)
41 ° 10 ‘ 1.5 “	73 ° 51 ‘ 8.0 “

Complete tax map information for all tax parcels included within the proposed site boundary. If a portion of any lot is proposed , please indicate as such by inserting “P/O” in front of the lot number in the appropriate box below, and only include the acreage for that portion of the tax parcel in the corresponding far right column.ATTACH REQUIRED MAPS PER THE APPLICATION INSTRUCTIONS.

Parcel Address	Section No.	Block No.	Lot No.	Acreage
136 Croton Avenue	16	7	79	0.5
138-140 Croton Avenue	16	7	80	0.3

1. Do the proposed site boundaries correspond to tax map metes and bounds? ☑ Yes ☐ No
   If no, please attach an accurate map of the propsed site.

2. Is the required property map attached to the application? ☑ Yes ☐ No
   (application will not be processed without map)

3. Is the property within a designated Environmental Zone (En-zone) pursuant to Tax Law 21(b)(6)?
   (See DEC's website for more information) Yes ☐ No ☑

   If yes, identify census tract : _____

   Percentage of property in En-zone (check one): ☐ 0-49% ☐ 50-99% ☐ 100%

4. Is this application one of multiple applications for a large development project, where the development project spans more than 25 acres (see additional criteria in BCP application instructions)? ☐ Yes ☑ No

   If yes, identify name of properties (and site numbers if available) in related BCP applications:_____

5. Is the contamination from groundwater or soil vapor solely emanating from property other than the site subject to the present application? ☐ Yes ☑ No

6. Has the property previously been remediated pursuant to Titles 9, 13, or 14 of ECL Article 27, Title 5 of ECL Article 56, or Article 12 of Navigation Law? ☐ Yes ☑ No
   If yes, attach relevant supporting documentation.

7. Are there any lands under water? ☐ Yes ☑ No
   If yes, these lands should be clearly delineated on the site map.

Section IV. Property Information (continued)

8. Are there any easements or existing rights of way that would preclude remediation in these areas? If yes, identify here and attach appropriate information. ☐ Yes ☑ No

Easement/Right-of-way Holder	Description

9. List of Permits issued by the DEC or USEPA Relating to the Proposed Site (type here or attach information)

Type	Issuing Agency	Description

10. Property Description and Environmental Assessment – **please refer to application instructions for the proper format of <u>each</u> narrative requested.**

Are the Property Description and Environmental Assessment narratives included in the **prescribed format**? ☑ Yes ☐ No

Note: Questions 11 through 13 only pertain to sites located within the five counties comprising New York City

11. Is the requestor seeking a determination that the site is eligible for tangible property tax credits? ☐ Yes ☐ No
If yes, requestor must answer questions on the supplement at the end of this form.

12. Is the Requestor now, or will the Requestor in the future, seek a determination that the property is Upside Down? ☐ Yes ☐ No

13. If you have answered *Yes* to Question 12, above, is an independent appraisal of the value of the property, as of the date of application, prepared under the hypothetical condition that the property is not contaminated, included with the application? ☐ Yes ☐ No

NOTE: If a tangible property tax credit determination is not being requested in the application to participate in the BCP, the applicant may seek this determination at any time before issuance of a certificate of completion by using the BCP Amendment Application, <u>except</u> for sites seeking eligibility under the underutilized category.

If any changes to Section IV are required prior to application approval, a new page, initialed by each requestor, must be submitted.

Initials of each Requestor: _____ _____ _____ _____ _____ _____

BCP application - PART B (note: application is separated into Parts A and B for DEC review purposes)

Section V. Additional Requestor Information See Instructions for Further Guidance	DEC USE ONLY BCP SITE NAME: _____ BCP SITE #:_____	
NAME OF REQUESTOR'S AUTHORIZED REPRESENTATIVE Susana Gerov		
ADDRESS 116 Greenwich Avenue		
CITY/TOWN Greenwich		ZIP CODE 06830
PHONE 203-809-0880	FAX	E-MAIL gpgllc@yahoo.com
NAME OF REQUESTOR'S CONSULTANT James Bellew, Haley & Aldrich of New York		
ADDRESS 237 West 35th Street, 16th Floor		
CITY/TOWN New York		ZIP CODE 10123
PHONE 646-518-7735	FAX N/A	E-MAIL jbellew@haleyaldrich.com
NAME OF REQUESTOR'S ATTORNEY Diana Rubin		
ADDRESS 1129 Northern Blvd, Suite 404		
CITY/TOWN Manhasset		ZIP CODE 11030
PHONE 212-603-9334	FAX 516-272-4171	E-MAIL dianarubinatty@gmail.com

Section VI. Current Property Owner/Operator Information – if not a Requestor		
CURRENT OWNER'S NAME N/A		OWNERSHIP START DATE:
ADDRESS		
CITY/TOWN		ZIP CODE
PHONE	FAX	E-MAIL
CURRENT OPERATOR'S NAME		
ADDRESS		
CITY/TOWN		ZIP CODE
PHONE	FAX	E-MAIL

PROVIDE A LIST OF PREVIOUS PROPERTY OWNERS AND OPERATORS WITH NAMES, LAST KNOWN ADDRESSES AND TELEPHONE NUMBERS AS AN ATTACHMENT. DESCRIBE REQUESTOR'S RELATIONSHIP, TO EACH PREVIOUS OWNER AND OPERATOR, INCLUDING ANY RELATIONSHIP BETWEEN REQUESTOR'S CORPORATE MEMBERS AND PREVIOUS OWNER AND OPERATOR. IF NO RELATIONSHIP, PUT "NONE".

IF REQUESTOR IS NOT THE CURRENT OWNER, DESCRIBE REQUESTOR'S RELATIONSHIP TO THE CURRENT OWNER, INCLUDING ANY RELATIONSHIP BETWEEN REQUESTOR'S CORPORATE MEMBERS AND THE CURRENT OWNER.

Section VII. Requestor Eligibility Information (Please refer to ECL § 27-1407)

If answering "yes" to any of the following questions, please provide an explanation as an attachment.

1. Are any enforcement actions pending against the requestor regarding this site? ☐ Yes ☑ No
2. Is the requestor subject to an existing order for the investigation, removal or remediation of contamination at the site? ☐ Yes ☑ No
3. Is the requestor subject to an outstanding claim by the Spill Fund for this site? Any questions regarding whether a party is subject to a spill claim should be discussed with the Spill Fund Administrator. ☐ Yes ☑ No

Section VII. Requestor Eligibility Information (continued)

4. Has the requestor been determined in an administrative, civil or criminal proceeding to be in violation of i) any provision of the ECL Article 27; ii) any order or determination; iii) any regulation implementing Title 14; or iv) any similar statute, regulation of the state or federal government? If so, provide an explanation on a separate attachment. ☐ Yes ☑ No
5. Has the requestor previously been denied entry to the BCP? If so, include information relative to the application, such as name, address, DEC assigned site number, the reason for denial, and other relevant information. ☐ Yes ☑ No
6. Has the requestor been found in a civil proceeding to have committed a negligent or intentionally tortious act involving the handling, storing, treating, disposing or transporting of contaminants? ☐ Yes ☑ No
7. Has the requestor been convicted of a criminal offense i) involving the handling, storing, treating, disposing or transporting of contaminants; or ii) that involves a violent felony, fraud, bribery, perjury, theft, or offense against public administration (as that term is used in Article 195 of the Penal Law) under federal law or the laws of any state? ☐ Yes ☑ No
8. Has the requestor knowingly falsified statements or concealed material facts in any matter within the jurisdiction of DEC, or submitted a false statement or made use of or made a false statement in connection with any document or application submitted to DEC? ☐ Yes ☑ No
9. Is the requestor an individual or entity of the type set forth in ECL 27-1407.9 (f) that committed an act or failed to act, and such act or failure to act could be the basis for denial of a BCP application? ☐ Yes ☑ No
10. Was the requestor's participation in any remedial program under DEC's oversight terminated by DEC or by a court for failure to substantially comply with an agreement or order? ☐ Yes ☑ No
11. Are there any unregistered bulk storage tanks on-site which require registration? ☐ Yes ☑ No

THE REQUESTOR MUST CERTIFY THAT HE/SHE IS EITHER A PARTICIPANT OR VOLUNTEER IN ACCORDANCE WITH ECL 27-1405 (1) BY CHECKING ONE OF THE BOXES BELOW:

☐ PARTICIPANT

A requestor who either 1) was the owner of the site at the time of the disposal of hazardous waste or discharge of petroleum or 2) is otherwise a person responsible for the contamination, unless the liability arises solely as a result of ownership, operation of, or involvement with the site subsequent to the disposal of hazardous waste or discharge of petroleum.

☑ VOLUNTEER

A requestor other than a participant, including a requestor whose liability arises solely as a result of ownership, operation of or involvement with the site subsequent to the disposal of hazardous waste or discharge of petroleum.

NOTE: By checking this box, a requestor whose liability arises solely as a result of ownership, operation of or involvement with the site certifies that he/she has exercised appropriate care with respect to the hazardous waste found at the facility by taking reasonable steps to: i) stop any continuing discharge; ii) prevent any threatened future release; iii) prevent or limit human, environmental, or natural resource exposure to any previously released hazardous waste.

If a requestor whose liability arises solely as a result of ownership, operation of or involvement with the site, submit a statement describing why you should be considered a volunteer – be specific as to the appropriate care taken.

Section VII. Requestor Eligibility Information (continued)

Requestor Relationship to Property (check one):
☐ Previous Owner ☑ Current Owner ☐ Potential /Future Purchaser ☐ Other_____

If requestor is not the current site owner, **proof of site access sufficient to complete the remediation must be submitted**. Proof must show that the requestor will have access to the property before signing the BCA and throughout the BCP project, including the ability to place an easement on the site Is this proof attached?

☐ Yes ☐ No

Note: a purchase contract does not suffice as proof of access.

Section VIII. Property Eligibility Information - See Instructions for Further Guidance

1. Is / was the property, or any portion of the property, listed on the National Priorities List?
   If yes, please provide relevant information as an attachment. ☐ Yes ☑ No
2. Is / was the property, or any portion of the property, listed on the NYS Registry of Inactive Hazardous Waste Disposal Sites pursuant to ECL 27-1305? ☐ Yes ☑ No
   If yes, please provide: Site #_____ Class # _____
3. Is / was the property subject to a permit under ECL Article 27, Title 9, other than an Interim Status facility? ☐ Yes ☑ No
   If yes, please provide: Permit type:_____ EPA ID Number:_____
   Date permit issued:_____ Permit expiration date:_____
4. If the answer to question 2 or 3 above is yes, is the site owned by a volunteer as defined under ECL 27-1405(1)(b), or under contract to be transferred to a volunteer? Attach any information available to the requestor related to previous owners or operators of the facility or property and their financial viability, including any bankruptcy filing and corporate dissolution documentation. ☐ Yes ☐ No
5. Is the property subject to a cleanup order under Navigation Law Article 12 or ECL Article 17 Title 10?
   If yes, please provide: Order #_____ ☐ Yes ☑ No
6. Is the property subject to a state or federal enforcement action related to hazardous waste or petroleum?
   If yes, please provide explanation as an attachment. ☐ Yes ☑ No

Section IX. Contact List Information

To be considered complete, the application must include the Brownfield Site Contact List in accordance with *DER-23 / Citizen Participation Handbook for Remedial Programs*. Please attach, at a minimum, the names and addresses of the following:

1. The chief executive officer and planning board chairperson of each county, city, town and village in which the property is located.
2. Residents, owners, and occupants of the property and properties adjacent to the property.
3. Local news media from which the community typically obtains information.
4. The public water supplier which services the area in which the property is located.
5. Any person who has requested to be placed on the contact list.
6. The administrator of any school or day care facility located on or near the property.
7. The location of a document repository for the project (e.g., local library). **If the site is located in a city with a population of one million or more, add the appropriate community board as an additional document repository**. In addition, attach a copy of an acknowledgement from each repository indicating that it agrees to act as the document repository for the site.

Section X. Land Use Factors

1. What is the current municipal zoning designation for the site? NC-2

   What uses are allowed by the current zoning? (Check boxes, below)

   ☑ Residential ☑ Commercial ☐ Industrial

   If zoning change is imminent, please provide documentation from the appropriate zoning authority.

2. Current Use: ☐ Residential ☐ Commercial ☐ Industrial ☑ Vacant ☐ Recreational (check all that apply)
   Attach a summary of current business operations or uses, with an emphasis on identifying possible contaminant source areas. If operations or uses have ceased, provide the date.

3. Reasonably anticipated use Post Remediation: ☑ Residential ☑ Commercial ☐ Industrial (check all that apply) **Attach a statement detailing the specific proposed use.**

   If residential, does it qualify as single family housing? ☐ Yes ☑ No

4. Do current historical and/or recent development patterns support the proposed use? ☑ Yes ☐ No

   The neighborhood is primarily a residential area.

5. Is the proposed use consistent with applicable zoning laws/maps? Briefly explain below, or attach additional information and documentation if necessary. ☑ Yes ☐ No

   Yes the NC-2 zoning is for medium-density neighborhoods intended primarily for mixed-use development. This zoning provides a location for residences and convenient goods and services.

6. Is the proposed use consistent with applicable comprehensive community master plans, local waterfront revitalization plans, or other adopted land use plans? Briefly explain below, or attach additional information and documentation if necessary. ☑ Yes ☐ No

XI. Statement of Certification and Signatures

(By requestor who is an individual)

If this application is approved, I hereby acknowledge and agree: (1) to execute a Brownfield Cleanup Agreement (BCA) within 60 days of the date of DEC's approval letter; (2) to the general terms and conditions set forth in the *DER-32, Brownfield Cleanup Program Applications and Agreements*; and (3) that in the event of a conflict between the general terms and conditions of participation and the terms contained in a site-specific BCA, the terms in the site-specific BCA shall control. Further, I hereby affirm that information provided on this form and its attachments is true and complete to the best of my knowledge and belief. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to section 210.45 of the Penal Law.

Date: _____ Signature: _____

Print Name: _____

(By a requestor other than an individual)

I hereby affirm that I am member (title) of Arnot Development LLC (entity); that I am authorized by that entity to make this application and execute the Brownfield Cleanup Agreement (BCA) and all subsequent amendments; that this application was prepared by me or under my supervision and direction. If this application is approved, I acknowledge and agree: (1) to execute a BCA within 60 days of the date of DEC's approval letter; (2) to the general terms and conditions set forth in the *DER-32, Brownfield Cleanup Program Applications and Agreements*; and (3) that in the event of a conflict between the general terms and conditions of participation and the terms contained in a site-specific BCA, the terms in the site-specific BCA shall control. Further, I hereby affirm that information provided on this form and its attachments is true and complete to the best of my knowledge and belief. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Date: 11/5/20 Signature: _____

Print Name: Susana Glenn

SUBMITTAL INFORMATION:

- **Two (2)** copies, one paper copy with original signatures and one electronic copy in Portable Document Format (PDF), must be sent to:
  - Chief, Site Control Section
  - New York State Department of Environmental Conservation
  - Division of Environmental Remediation
  - 625 Broadway
  - Albany, NY 12233-7020

FOR DEC USE ONLY
BCP SITE T&A CODE: _____ **LEAD OFFICE:** _____

Supplemental Questions for Sites Seeking Tangible Property Credits in New York City ONLY. Sufficient information to demonstrate that the site meets one or more of the criteria identified in ECL 27 1407(1-a) must be submitted if requestor is seeking this determination.

BCP App Rev 10

Property is in Bronx, Kings, New York, Queens, or Richmond counties. ☐ Yes ☐ No
Requestor seeks a determination that the site is eligible for the tangible property credit component of the brownfield redevelopment tax credit. ☐ Yes ☐ No
Please answer questions below and provide documentation necessary to support answers.
1. Is at least 50% of the site area located within an environmental zone pursuant to NYS Tax Law 21(b)(6)? Please see DEC's website for more information. ☐ Yes ☐ No
2. Is the property upside down or underutilized as defined below? Upside Down? ☐ Yes ☐ No Underutilized? ☐ Yes ☐ No **From ECL 27-1405(31):** "Upside down" shall mean a property where the projected and incurred cost of the investigation and remediation which is protective for the anticipated use of the property equals or exceeds seventy-five percent of its independent appraised value, as of the date of submission of the application for participation in the brownfield cleanup program, developed under the hypothetical condition that the property is not contaminated. **From 6 NYCRR 375-3.2(l) as of August 12, 2016:** (Please note: Eligibility determination for the underutilized category can only be made at the time of application) 375-3.2: (l) "Underutilized" means, as of the date of application, real property on which no more than fifty percent of the permissible floor area of the building or buildings is certified by the applicant to have been used under the applicable base zoning for at least three years prior to the application, which zoning has been in effect for at least three years; and (1) the proposed use is at least 75 percent for industrial uses; or (2) at which: (i) the proposed use is at least 75 percent for commercial or commercial and industrial uses; (ii) the proposed development could not take place without substantial government assistance, as certified by the municipality in which the site is located; and (iii) one or more of the following conditions exists, as certified by the applicant: (a) property tax payments have been in arrears for at least five years immediately prior to the application; (b) a building is presently condemned, or presently exhibits documented structural deficiencies, as certified by a professional engineer, which present a public health or safety hazard; or (c) there are no structures. "Substantial government assistance" shall mean a substantial loan, grant, land purchase subsidy, land purchase cost exemption or waiver, or tax credit, or some combination thereof, from a governmental entity.

Supplemental Questions for Sites Seeking Tangible Property Credits in New York City (continued)

3. If you are seeking a formal determination as to whether your project is eligible for Tangible Property Tax Credits based in whole or in part on its status as an affordable housing project (defined below), you must attach the regulatory agreement with the appropriate housing agency (typically, these would be with the *New York City Department of Housing, Preservation and Development*; *the New York State Housing Trust Fund Corporation*; the *New York State Department of Housing and Community Renewal*; or the *New York State Housing Finance Agency*, though other entities may be acceptable pending Department review). **Check appropriate box, below**:

☐ Project is an Affordable Housing Project - Regulatory Agreement Attached;

☐ Project is Planned as Affordable Housing, But Agreement is Not Yet Available* (*Checking this box will result in a "pending" status. The Regulatory Agreement will need to be provided to the Department and the Brownfield Cleanup Agreement will need to be amended prior to issuance of the CoC in order for a positive determination to be made.);

☐ This is Not an Affordable Housing Project.

From 6 NYCRR 375- 3.2(a) as of August 12, 2016:

(a) "Affordable housing project" means, for purposes of this part, title fourteen of article twenty seven of the environmental conservation law and section twenty-one of the tax law only, a project that is developed for residential use or mixed residential use that must include affordable residential rental units and/or affordable home ownership units.

(1) Affordable residential rental projects under this subdivision must be subject to a federal, state, or local government housing agency's affordable housing program, or a local government's regulatory agreement or legally binding restriction, which defines (i) a percentage of the residential rental units in the affordable housing project to be dedicated to (ii) tenants at a defined maximum percentage of the area median income based on the occupants' households annual gross income.

(2) Affordable home ownership projects under this subdivision must be subject to a federal, state, or local government housing agency's affordable housing program, or a local government's regulatory agreement or legally binding restriction, which sets affordable units aside for home owners at a defined maximum percentage of the area median income.

(3) "Area median income" means, for purposes of this subdivision, the area median income for the primary metropolitan statistical area, or for the county if located outside a metropolitan statistical area, as determined by the United States department of housing and urban development, or its successor, for a family of four, as adjusted for family size.

BCP Application Summary (for DEC use only)

Site Name: 136-140 Croton Avenue **Site Address:** 136-140 Croton Avenue
City: Ossining **County:** Westchester **Zip:** 10562

Tax Block & Lot
Section (if applicable): 16 **Block:** 7 **Lot:** 79

Requestor Name: Amak Development LLC **Requestor Address:** 136 Croton Avenue
City: Ossining **Zip:** 10562 **Email:** gpgllc@yahoo.com

Requestor's Representative (for billing purposes)
Name: Susana Gerov **Address:** 116 Greenwich Avenue
City: Greenwich **Zip:** 06830 **Email:** gpgllc@yahoo.com

Requestor's Attorney
Name: Diana Rubin **Address:** 1129 Northern Blvd, Suite 404
City: Manhasset **Zip:** 11030 **Email:** dianarubinatty@gmail.com

Requestor's Consultant
Name: James Bellew, Haley & Aldrich of New York **Address:** 237 West 35th Street, 16th Floor
City: New York **Zip:** 10123 **Email:** jbellew@haleyaldrich.com

Percentage claimed within an En-Zone: ☑ **0%** ☐ **<50%** ☐ **50-99%** ☐ **100%**

DER Determination: ☐ Agree ☐ Disagree

Requestor's Requested Status: ☑ **Volunteer** ☐ **Participant**

DER/OGC Determination: ☐ Agree ☐ Disagree
Notes:

For NYC Sites, is the Requestor Seeking Tangible Property Credits: ☐ Yes ☐ No

Does Requestor Claim Property is Upside Down: ☐ Yes ☐ No
DER/OGC Determination: ☐ Agree ☐ Disagree ☐ Undetermined
Notes:

Does Requestor Claim Property is Underutilized: ☐ Yes ☐ No
DER/OGC Determination: ☐ Agree ☐ Disagree ☐ Undetermined
Notes:

Does Requestor Claim Affordable Housing Status: ☐ Yes ☐ No ☐ Planned, No Contract
DER/OGC Determination: ☐ Agree ☐ Disagree ☐ Undetermined
Notes:

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
BROWNFIELD CLEANUP PROGRAM (BCP)
INSTRUCTIONS FOR COMPLETING A BCP APPLICATION

The New York State Department of Environmental Conservation (DEC) strongly encourages all applicants to schedule a pre-application meeting with DEC staff to review the benefits, requirements, and procedures for completing a project in the BCP. Contact your Regional office to schedule a meeting. To add a party to an existing BCP Agreement and/or Application, use the BCP Agreement Amendment Application. **See guidance at the end of these instructions regarding the determination of a complete application.**

SECTION I REQUESTOR INFORMATION

Requestor Name

Provide the name of the person(s)/entity requesting participation in the BCP. (If more than one, attach additional sheets with requested information. If an LLC, the members/owners names need to be provided on a separate attachment). The requestor is the person or entity seeking DEC review and approval of the remedial program.

If the requestor is a Corporation, LLC, LLP or other entity requiring authorization from the NYS Department of State to conduct business in NYS, the requestor's name must appear exactly as given in the NYS Department of State's Corporation & Business Entity Database. A print-out of entity information from the database must be submitted to DEC with the application, to document that the requestor is authorized to do business in NYS.

Address, etc.

Provide the requestor's mailing address, telephone number; fax number and e-mail address.

Document Certification

All documents, which are prepared in final form for submission to DEC for approval, are to be prepared and certified in accordance with Section 1.5 of DER-10. Persons preparing and certifying the various work plans and reports identified in Section 1.5 include:

- New York State licensed professional engineers (PEs), as defined at 6 NYCRR 375-1.2(aj) and paragraph 1.3(b)47. Engineering documents must be certified by a PE with current license and registration for work that was done by them or those under their direct supervision. The firm by which the PE is employed must also be authorized to practice engineering in New York State;
- qualified environmental professionals as defined at 6 NYCRR 375-1.2(ak) and DER-10 paragraph 1.3(b)49;
- remedial parties, as defined at 6 NYCRR 375-1.2(ao) and DER-10 paragraph 1.3(b)60; or
- site owners, which are the owners of the property comprising the site at the time of the certification.

SECTION II PROJECT DESCRIPTION

As a separate attachment, provide complete and detailed information about the project, including the purpose of the project, the date the remedial program is to start, and the date the Certificate of Completion is anticipated..

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SECTION III PROPERTY'S ENVIRONMENTAL HISTORY

Please follow instructions on application form.

SECTION IV PROPERTY INFORMATION

Proposed Site Name

Provide a name for the proposed site. The name could be an owner's name, current or historical operations (i.e. ABC Furniture) or the general location of the property. Consider whether the property is known by DEC by a particular name, and if so, use that name.

Site Address

Provide a street address, city/town, zip code, and each municipality and county in which the site is located. .

Site Size

Provide the approximate acreage of the site.

GIS Information

Provide the latitude and longitude for the approximate center of the property. Show the latitude and longitude in degrees, minutes and seconds.

Tax Parcel Information

Provide the tax parcel address/section/block/lot information and map. Tax map information may be obtained from the tax assessor's office for all tax parcels that are included in the property boundaries. Attach a county tax map with identifier numbers, along with any figures needed to show the location and boundaries of the property. Include a USGS 7.5 minute quad map on which the property appears and clearly indicate the proposed site's location.

1. Tax Map Boundaries

State whether the boundaries of the site correspond to the tax map boundaries. If no, a metes and bounds description of the property must be attached. The site boundary can occupy less than a tax lot or encompass portions of one or more tax lots and may be larger or smaller than the overall redevelopment/ reuse project area. A site survey with metes and bounds will be required to establish the site boundaries before the Certificate of Completion can be issued.

2. Map

Provide a property base map(s) of sufficient detail, clarity and accuracy to show the following: i*)* map scale, north arrow orientation, date, and location of the property with respect to adjacent streets and roadways; and ii*)* proposed brownfield property boundary lines, with adjacent property owners clearly identified.

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SECTION IV (continued)

3. En-zone

Is any part of the property in an En-zone? If so, what percentage? For information on En-zones, please see DEC's website.

4. Multiple applications

Generally, only one application can be submitted, and one BCA executed, for a development project. In limited circumstances, the DEC may consider multiple applications/BCAs for a development project where 1) the development project spans more than 25 acres; 2) the approach does not negatively impact the remedial program, including timing, ability to appropriately address areas of concern, and management of off-site concerns; and 3) the approach is not advanced to increase the value of future tax credits (i.e., circumvent the tax credit caps provided under New York State Tax Law Section 21).

10. Property Description Narrative

Provide a property description in the format provided below. Each section should be no more than one paragraph long.

Location

Example: "The XYZ Site is located in an {urban, suburban, rural} area." {Add reference points if address is unspecific; e.g., "The site is approximately 3.5 miles east of the intersection of County Route 55 and Industrial Road."}

Site Features:

Example: "The main site features include several large abandoned buildings surrounded by former parking areas and roadways. About one quarter of the site area is wooded. Little Creek passes through the northwest corner."

Current Zoning and Land Use: (Ensure the current zoning is identified.)

Example: "The site is currently inactive, and is zoned for commercial use. The surrounding parcels are currently used for a combination of commercial, light industrial, and utility right-of-ways. The nearest residential area is 0.3 miles east on Route 55."

Past Use of the Site: include source(s) of contamination and remedial measures (site characterizations, investigations, Interim Remedial Measures, etc.) completed outside of the current remedial program (e.g., work under a petroleum spill incident).

Example: "Until 1992 the site was used for manufacturing wire and wire products (e.g., conduit, insulators) and warehousing. Prior uses that appear to have led to site contamination include metal plating, machining, disposal in a one-acre landfill north of Building 7, and releases of wastewater into a series of dry wells."

When describing the investigations/actions performed outside of the remedial program, include the major chronological remedial events that lead to the site entering a remedial program. The history should include the first involvement by government to address hazardous waste/petroleum disposal. Do not cite reports. Only include remedial activities which were implemented PRIOR to the BCA. Do not describe sampling information.

SECTION IV (continued)

Property Description Narrative (continued)

Site Geology and Hydrogeology:

As appropriate, provide a very brief summary of the main hydrogeological features of the site including depth to water, groundwater flow direction, etc.

Environmental Assessment

The goal of this section is to describe the nature and extent of contamination at the site. When describing the nature of contamination, identify just the primary contaminants of concern (i.e., those that will likely drive remedial decisions/ actions). If there are many contaminants present within a group of contaminants (i.e., volatile organic compounds, semivolatile organic compounds, metals), identify the group(s) and one or two representative contaminants within the group. When addressing the extent of contamination, identify the areas of concern at the site, contaminated media (i.e., soil, groundwater, etc.), relative concentration levels, and a broad-brush description of contaminated areas/depths.

The reader should be able to know if contamination is widespread or limited and if concentrations are marginally or greatly above Standards, Criteria and Guidance (SGCs) for the primary contaminants. If the extent is described qualitatively (e.g., low, medium, high), representative concentrations should be given and compared with appropriate SCGs. For soil contamination, the concentrations should be compared with the soil cleanup objectives (SCOs) for the intended use of the site.

A typical Environmental Assessment would look like the following:

Based upon investigations conducted to date, the primary contaminants of concern for the site include cadmium and trichloroethene (TCE).
Soil - Cadmium is found in shallow soil, mostly near a dry well at the northeast end of the property. TCE is found in deeper soil, predominantly at the north end of the site. Concentrations of cadmium found on site (approximately 5 ppm) slightly exceed the soil cleanup objective (SCO) for unrestricted use (2.5 ppm). Concentrations of TCE found on site (5 ppm to 300 ppm) significantly exceed the soil cleanup objectives for the protection of groundwater (0.47 ppm).
Groundwater - TCE and its associated degradation products are also found in groundwater at the north end of the site, moderately exceeding groundwater standards (typically 5 ppb), with a maximum concentration of 1500 ppb. A moderate amount of TCE from the site has migrated 300 feet down-gradient off-site. The primary contaminant of concern for the off-site area is TCE, which is present at a maximum concentration of 500 ppb, at 10 feet below the groundwater table near Avenue A.
Soil Vapor & Indoor Air - TCE was detected in soil vapor at elevated concentrations and was also detected in indoor air at concentrations up to 1,000 micrograms per cubic meter.

If any changes to Section IV are required prior to application approval, a new page, initialed by each requestor, must be submitted.

SECTION V ADDITIONAL REQUESTOR INFORMATION

Representative Name, Address, etc.

Provide information for the requestor's authorized representative. This is the person to whom all correspondence, notices, etc. will be sent, and who will be listed as the contact person in the BCA. Invoices will be sent to the representative of Applications determined to be Participants unless another contact name and address is provided with the application.

Consultant and Attorney Name, Address, etc.

Provide requested information.

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SECTION VI CURRENT PROPERTY OWNER/OPERATOR INFORMATION (IF NOT A REQUESTOR)

Owner Name, Address, etc.

Provide requested information of the current owner of the property. List all parties holding an interest in the Property and, if the Requestor is not the current owner, describe the Requestor's relationship to the current owner.

Operator Name, Address, etc.

Provide requested information of the current operator (if different from the requestor or owner).

Provide a list of previous property owners and operators with names, last known addresses, telephone numbers and the Requestor's relationship to each owner and operator as a separate attachment

SECTION VII REQUESTOR ELIGIBILITY INFORMATION

As a separate attachment, provide complete and detailed information in response to any eligibility questions answered in the affirmative. It is permissible to reference specific sections of existing property reports; however, it is requested that such information be summarized. For properties with multiple addresses or tax parcels, please include this information for each address or tax parcel.

SECTION VIII PROPERTY ELIGIBILITY INFORMATION

As a separate attachment, provide complete and detailed information in response to the following eligibility questions answered in the affirmative. It is permissible to reference specific sections of existing property reports; however, it is requested that that information be summarized.

1. CERCLA / NPL Listing

Has any portion of the property ever been listed on the National Priorities List (NPL) established under CERCLA? If so, provide relevant information.

2. Registry Listing

Has any portion of the property ever been listed on the New York State Registry of Inactive Hazardous Waste Disposal Sites established under ECL 27-1305? If so, please provide the site number and classification. See the Division of Environmental Remediation (DER) website for a database of sites with classifications.

3. RCRA Listing

Does the property have a Resource Conservation and Recovery Act (RCRA) TSDF Permit in accordance with the ECL 27-0900 *et seq*? If so, please provide the EPA Identification Number, the date the permit was issued, and its expiration date. Note: for purposes of this application, interim status facilities are not deemed to be subject to a RCRA permit.

4. Registry / RCRA sites owned by volunteers

If the answer to question 2 or 3 above is yes, is the site owned by a volunteer as defined under ECL 27-1405(1)(b), or under contract to be transferred to a volunteer? Attach any information available to the requestor related to previous owners or operators of the facility or property and their financial viability, including any bankruptcy filing and corporate dissolution documentation.

SECTION VIII (continued)

5. Existing Order

Is the property subject to an order for cleanup under Article 12 of the Navigation Law or Article 17 Title 10 of the ECL? If so, please provide information on an attachment. Note: if the property is subject to a stipulation agreement, relevant information should be provided; however, property will not be deemed ineligible solely on the basis of the stipulation agreement.

6. Enforcement Action Pending

Is the property subject to an enforcement action under Article 27, Titles 7 or 9 of the ECL or subject to any other ongoing state or federal enforcement action related to the contamination which is at or emanating from the property? If so, please provide information on an attachment.

SECTION IX CONTACT LIST INFORMATION

Provide the names and addresses of the parties on the Site Contact List (SCL) and a letter from the repository acknowledging agreement to act as the document repository for the proposed BCP project.

SECTION X LAND USE FACTORS

In addition to eligibility information, site history, and environmental data/reports, the application requires information regarding the current, intended and reasonably anticipated future land use.

1. This information consists of responses to the “land use” factors to be considered relative to the “Land Use” section of the BCP application. The information will be used to determine the appropriate land use in conjunction with the investigation data provided, in order to establish eligibility for the site based on the definition of a “brownfield site” pursuant to ECL 27-1405(2).

2. This land use information will be used by DEC, in addition to all other relevant information provided, to determine whether the proposed use is consistent with the currently identified, intended and reasonably anticipated future land use of the site at this stage. Further, this land use finding is subject to information regarding contamination at the site or other information which could result in the need for a change in this determination being borne out during the remedial investigation.

SECTION XI SIGNATURE PAGE

The Requestor must sign the application, or designate a representative who can sign. The requestor’s consultant or attorney cannot sign the application. If there are multiple parties applying, then each must sign a signature page. If the requestor is a Corporation, LLC, LLP or other entity requiring authorization from the NYS Department of State to conduct business in NYS, the entity’s name must appear exactly as given in the NYS Department of State's Corporation & Business Entity Database.

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DETERMINATION OF A COMPLETE APPLICATION

1. The first step in the application review and approval process is an evaluation to determine if the application is complete. To help ensure that the application is determined complete, requestors should review the list of common application deficiencies and carefully read these instructions.

2. DEC will send a notification to the requestor within 30 calendar days of receiving the application, indicating whether such application is complete or incomplete.

3. An application must include the following information relative to the site identified by the application, necessary for making an eligibility determination, or it will be deemed incomplete. (**Please note:** the application *as a whole* requires more than the information outlined below to be determined complete). The application must include:

    a. for all sites, an investigation report sufficient to demonstrate the site requires remediation in order to meet the requirements of the program, and that the site is a brownfield site at which contaminants are present at levels exceeding the soil cleanup objectives or other health-based or environmental standards, criteria or guidance adopted by DEC that are applicable based on the reasonably anticipated use of the property, in accordance with applicable regulations. Required data includes site drawings requested in Section III, #3 of the BCP application form.

    b. for those sites described below, documentation relative to the volunteer status of all requestors, as well as information on previous owners or operators that may be considered responsible parties **and** their ability to fund remediation of the site. This documentation is required for:

        i. real property listed in the registry of inactive hazardous waste disposal sites as a class 2 site, which may be eligible provided that DEC has not identified any responsible party for that property having the ability to pay for the investigation or cleanup of the property prior to the site being accepted into the BCP; or

        ii. real property that was a hazardous waste treatment, storage or disposal facility having interim status pursuant to the Resource Conservation and Recovery Act (RCRA) program, which may be eligible provided that DEC has not identified any responsible party for that property having the ability to pay for the investigation or cleanup of the property prior to the site being accepted into the BCP.

    c. for sites located within the five counties comprising New York City, in addition to (a) and if applicable (b) above, if the application is seeking a determination that the site is eligible for tangible property tax credits, sufficient information to demonstrate that the site meets one or more of the criteria identified in ECL 27 1407(1-a). **If this determination is not being requested in the application to participate in the BCP, the applicant may seek this determination at any time before issuance of a certificate of completion, using the BCP Amendment Application, except for sites seeking eligibility under the underutilized category.**

    d. for sites previously remediated pursuant to Titles 9, 13, or 14 of ECL Article 27, Title 5 of ECL Article 56, or Article 12 of Navigation Law, relevant documentation of this remediation.

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DETERMINATION OF A COMPLETE APPLICATION (continued)

4. If the application is found to be incomplete:

    a. the requestor will be notified via email or phone call regarding minor deficiencies. The requestor must submit information correcting the deficiency to DEC within the 30-day review time frame; or

    b. the requestor will receive a formal Letter of Incomplete Application (LOI) if an application is substantially deficient, if the information needed to make an eligibility determination identified in #4 above is missing or found to be incomplete, or if a response to a minor deficiency is not received within the 30-day period. The LOI will detail all of the missing information and request submission of the information. If the information is not submitted within 30 days from the date of the LOI, the application will be deemed withdrawn. In this case, the requestor may resubmit the application without prejudice.

5. If the application is determined to be complete, DEC will send a Letter of Complete Application (LOC) that includes the dates of the public comment period. The LOC will:

    a. include an approved public notice to be sent to all parties on the Contact List included with the application;

    b. provide instructions for publishing the public notice in the newspaper on the date specified in the letter, and instructions for mailing the notice to the Contact List;

    c. identify the need for a certification of mailing form to be returned to DEC along with proof of publication documentation; and

    d. specify the deadline for publication of the newspaper notice, which must coincide with, or occur before, the date of publication in the Environmental Notice Bulletin (ENB).

        i. DEC will send a notice of the application to the ENB. As the ENB is only published on Wednesdays, DEC must submit the notice by the Wednesday before it is to appear in the ENB.

        ii. The mailing to parties on the Contact List must be completed no later than the Tuesday prior to ENB publication. If the mailings, newspaper notice and ENB notice are not completed within the time-frames established by the LOC, the public comment period on the application will be extended to insure that there will be the required comment period.

        iii. Marketing literature or brochures are prohibited from being included in mailings to the Contact List.

ATTACHMENT A

Section I: Requestor Information

SECTION I: REQUESTOR INFORMATION

The application requestor is Amak Development LLC. Susan Gerov and Simon Gerov are the sole members of Amak Development LLC.

The requestor is the sole owner of the property located at 136-140 Croton Avenue, Block 7, Lots 79 & 80, Ossining, New York comprising the Site, and has full access to implement a Brownfield site remedial program, including to investigate, remediate and redevelop the Site. The contact information for the requestor is:

Amak Development LLC
Susan Gerov and Simon Gerov
116 Greenwich Avenue
Greenwich, CT 06830
Phone:203-809-0880
Fax: N/A
Email: gpgllc@yahoo.com

A printout of the entity information from the NYS Department of State's Corporation & Business Entity Database is included in this attachment.

All documents will be certified by Haley & Aldrich of New York and/or Amak Development LLC in accordance with DER-10 Section 1.5 by James Bellew.

NYS Department of State

Division of Corporations

Entity Information

The information contained in this database is current through August 27, 2020.

Selected Entity Name: AMAK DEVELOPMENT LLC

Selected Entity Status Information

Current Entity Name:	AMAK DEVELOPMENT LLC
DOS ID #:	5218293
Initial DOS Filing Date:	OCTOBER 16, 2017
County:	WESTCHESTER
Jurisdiction:	NEW YORK
Entity Type:	DOMESTIC LIMITED LIABILITY COMPANY
Current Entity Status:	ACTIVE

Selected Entity Address Information

DOS Process (Address to which DOS will mail process if accepted on behalf of the entity)

AMAK DEVELOPMENT LLC
136 CROTON AVE
OSSINING, NEW YORK, 10562

Registered Agent

NONE

This office does not require or maintain
information regarding the names and addresses

of members or managers of nonprofessional limited liability companies. Professional limited liability companies must include the name(s) and address(es) of the original members, however this information is not recorded and only available by viewing the certificate.

***Stock Information**

# of Shares	Type of Stock	$ Value per Share
No Information Available		

*Stock information is applicable to domestic business corporations.

Name History

Filing Date	Name Type	Entity Name
OCT 16, 2017	Actual	AMAK DEVELOPMENT LLC

A **Fictitious** name must be used when the **Actual** name of a foreign entity is unavailable for use in New York State. The entity must use the fictitious name when conducting its activities or business in New York State.

NOTE: New York State does not issue organizational identification numbers.

Search Results New Search

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ATTACHMENT B

Section II: Project Description

SECTION II: Project Description

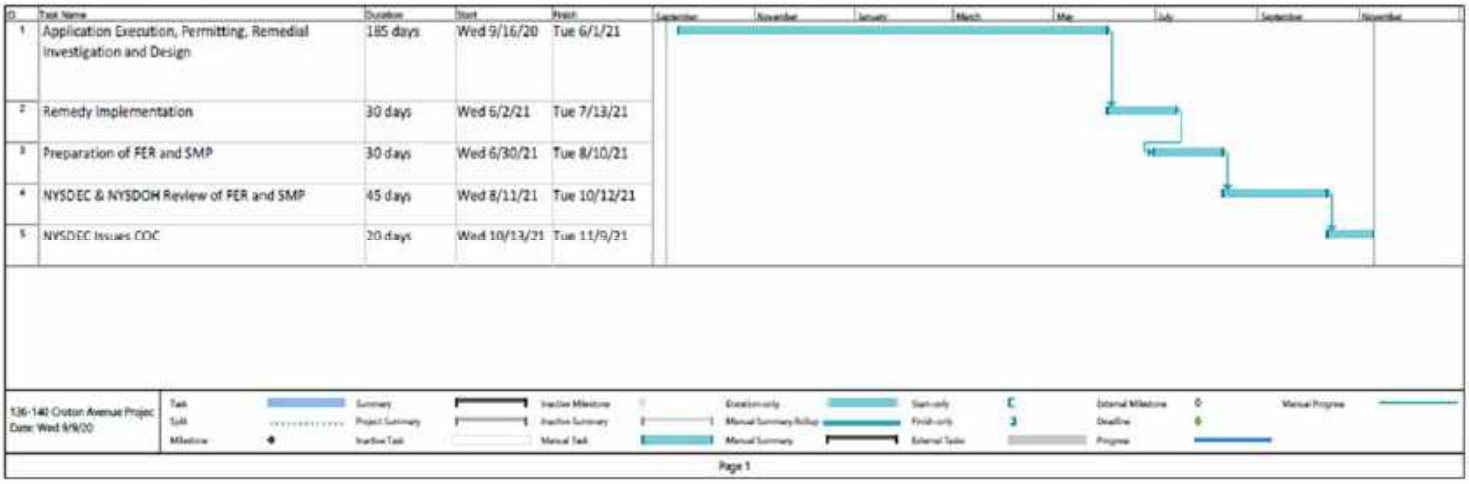
The requestor seeks to enter the Brownfield Cleanup Program (BCP) of the New York State Department of Environmental Conservation (NYSDEC) at the investigation stage for the Site located at 136-140 Croton Avenue, Ossining, NY. Phase I and Phase II Environmental Investigations were completed at the Site by Berkshire Environmental Services & Technology, LLC in November 2017.

Upon review of the analytical results of the Phase II, it was recognized that there is a presence of volatile organic compounds among other contaminants related to the Site's former use as a gasoline service station and automotive repair shop. The Phase I and II assessments helped to characterize the Site but did not determine the extent of contamination at the Site and failed to perform testing on the groundwater.

The proposed project also includes a remediation and redevelopment of the Site. While the development plans are conceptual at this time, the anticipated project will consist of mixed-used commercial and residential development.

Project Schedule:

It is anticipated that, once requestor is accepted into the BCP and the Remedial Investigation Work Plan is approved by the Department, the remedial investigation will commence within 2-3 months. The design and implementation of the remedy would start within six to 12 months following acceptance of the Remedial Investigation Report by NYSDEC. It is anticipated that a Certificate of Completion (CoC) could be granted upon completion of the remedial program, estimated completion for which would be Fall 2021. A tentative projected schedule is below.



ID	Task Name	Duration	Start	Finish
1	Application Execution, Permitting, Remedial Investigation and Design	185 days	Wed 9/16/20	Tue 6/1/21
2	Remedy Implementation	30 days	Wed 6/2/21	Tue 7/13/21
3	Preparation of FER and SMP	30 days	Wed 6/30/21	Tue 8/10/21
4	NYSDEC & NYSDOH Review of FER and SMP	45 days	Wed 8/11/21	Tue 10/12/21
5	NYSDEC Issues COC	20 days	Wed 10/13/21	Tue 11/9/21

Notes:
FER: Final Engineering Report
SMP: Site Management Plan
COC: Certificate of Completion

ATTACHMENT C

Section III: Property's Environmental History

SECTION III- PROPERTY'S ENVIRONMENTAL HISTORY

SECTION III.1: Reports

From the Phase I and Phase II reports completed by Berkshire Environmental Services & Technology LLC, it was found that the Site was undeveloped land prior to the construction of the Site buildings in the 1940s and 1950s. Two buildings were constructed with Building #1 used as a retail gasoline station and automotive repair garage until 1981 and building #2 serving the same purpose until 1996. USTs were historically located on both Site parcels. Four 10,000-gallon gasoline USTs on the western side of 136 Croton Ave were removed in 1981 and were confirmed to be leaking. Additionally, there were three gasoline USTs of unknown size historically located on the northern side of the 138-140 Croton Avenue parcel, which appear to have also been removed. There was also a former presence of an inground hydraulic lift in the 136 Croton Avenue parcel and the remains of an inground hydraulic lift inside the building on the 138-140 Croton Avenue parcel. After serving as the gasoline service station and automotive repair garage, the Site operated as a nursery until 2017, and now the Site remains vacant. Two greenhouse structures were demolished in February 2020.

Section III.1: Reports

November 2017 Phase I Environmental Site Assessment & Phase II Subsurface Investigation prepared by Berkshire Environmental Services & Technology, LLC
(see USB attached)

SECTION III.2: Sampling Data

See Application Section III.2 for overview tables of the sampling data from the Phase II conducted on November 30, 2017. The findings of the Phase II investigation are as follows:

Soil: Volatile organic compounds including ethylbenzene (maximum 20,600 µg/kg), naphthalene (maximum 12,100 µg/kg), n-propylbenzene (maximum 8,540 µg/kg), toluene (maximum 50,000 µg/kg), 1,3,5-trimethylbenzene (maximum 18,100 µg/kg), and total xylenes (maximum 96,700 µg/kg) were detected in soil depths of 0-15 feet below the surface and exceed the NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs). Concentrations of benzene (maximum 5,320 µg/kg) exceeded NYSDEC Part 375 Restricted Residential Use Soil Cleanup Objectives (RRSCOs) in the soil sample from 2-4 ft bgs from soil boring four located at the former gasoline pump island on the 136 Croton Avenue parcel. Concentrations of 1,2,4-trimethylbenzene (maximum 52,200 µg/kg) exceeded RRSCOs in the soil sample collected from soil boring 11 at 2-4 ft bgs in the former gasoline pump island on the 138-140 Croton Avenue parcel.

Metals including arsenic, barium, chromium, mercury, and lead were also detected in shallow soil but did not exceed their respective UUSCOs or RRSCOs. The soils with the greatest concentrations of VOCs, PAHs, and metals were located on the northeastern corner of the 138-140 Croton Avenue parcel and in the northern section of the 136 Croton Avenue parcel.

See attached Analytical results from the Phase II (Table 1). Please also refer to the attached USB drive containing the full Phase I and II reports completed in November 2017.

Section III.2: Sampling Data

Analytical Results from November 2017 Phase II (Table 1- extracted from the Phase II)

Table 1
Soil Sample Results Summary
Sun Valley Nursery
136 & 138-140 Croton Avenue
Ossining, New York

Sample Identification			SB-1/3-5	SB-1/5-10	SB-1/10-15	SB-2/0-5	SB-2/5-10	SB-2/13-15	SB-3/0-5	SB-3/5-10	SB-3/10-12	SB-4/2-4	SB-4/5-10	SB-5/2-4	SB-5/5-10	SB-6/0-5	SB-6/7-9	SB-6/10-15	SB-7/0-5
Sample Depth	**Soil Cleanup**	**Unrestricted**	**3' - 5'**	**5' - 10'**	**10' - 15'**	**0' - 5'**	**5' - 10'**	**13' - 15'**	**0' - 5'**	**5' - 10'**	**10' - 12'**	**2' - 4'**	**5' - 10'**	**2' - 4'**	**5' - 10'**	**0' - 5'**	**7' - 9'**	**10' - 15'**	**0' - 5'**
Sample Date	**Level**	**Use SCO**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2014**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**
PID (ppm)																			
Total VOCs	NS	NS	676	31.7	61.1	8.1	181	171	9.2	4.5	13.2	2,389	1,052	105	31.5	1.9	3.7	2.0	5.7
VOCs (µg/kg)																			
Benzene	60	60	ND<71.8	-	-	-	-	ND<4.09	-	-	ND<70.5	***5,320***	-	***142***	-	-	ND<5.64	-	-
n-Butylbenzene	12,000	12,000	624	-	-	-	-	ND<4.09	-	-	71.2	3,390	-	89.4	-	-	ND<5.64	-	-
sec-Butylbenzene	1,000	NS	528	-	-	-	-	ND<4.09	-	-	58.6 J	***1,320***	-	55.2	-	-	ND<5.64	-	-
tert-Butylbenzene	NS	NS	58.2 J	-	-	-	-	ND<4.09	-	-	55.7 J	444 J	-	42.0 J	-	-	ND<5.64	-	-
Ethylbenzene	1,000	1,000	285	-	-	-	-	ND<4.09	-	-	43.0 J	***20,600***	-	324	-	-	ND<5.64	-	-
Ispropylbenzene	2,300	NS	277	-	-	-	-	ND<4.09	-	-	35.3 J	***2,500***	-	43.1 J	-	-	ND<5.64	-	-
4-Isopropyltoluene	10,000	NS	69.0 J	-	-	-	-	ND<4.09	-	-	49.4 J	927	-	38.6 J	-	-	ND<5.64	-	-
Methyl-tert-butyl ether (MTBE)	930	930	ND<71.8	-	-	-	-	ND<4.09	-	-	ND<70.5	ND<549	-	ND<55.2	-	-	ND<5.64	-	-
Methylene chloride	NS	50	ND<71.8	-	-	-	-	ND<4.09	-	-	ND<70.5	ND<549	-	ND<55.2	-	-	ND<5.64	-	-
Naphthalene	12,000	12,000	1,030	-	-	-	-	ND<4.09	-	-	162	9,340	-	411	-	-	ND<5.64	-	-
n-Propylbenzene	3,900	3,900	1,070	-	-	-	-	ND<4.09	-	-	60.0 J	***8,540***	-	125	-	-	ND<5.64	-	-
Styrene	NS	NS	ND<71.8	-	-	-	-	ND<4.09	-	-	ND<70.5	543 J	-	ND<55.2	-	-	ND<5.64	-	-
Toluene	700	700	ND<71.8	-	-	-	-	ND<4.09	-	-	ND<70.5	***50,000***	-	149	-	-	ND<5.64	-	-
1,2,4-Trimethylbenzene	3,600	3,600	511	-	-	-	-	ND<4.09	-	-	133	***46,700***	-	936	-	-	ND<5.64	-	-
1,3,5-Trimethylbenzene	8,400	8,400	204	-	-	-	-	ND<4.09	-	-	347	***13,800***	-	278	-	-	ND<5.64	-	-
Total Xylenes	260	260	125 J	-	-	-	-	ND<8.18	-	-	***710.7***	***96,700***	-	***1,346***	-	-	ND<11.3	-	-
PAHs (µg/kg)																			
Benzo (a) anthracene	1,000	1,000	50.2 J	-	-	-	-	ND<73.4	-	-	ND<362	ND<72.6	-	ND<73.2	-	-	ND<72.6	-	-
Benzo (a) pyrene	1,000	1,000	51.6 J	-	-	-	-	ND<73.4	-	-	ND<362	ND<72.6	-	ND<73.2	-	-	ND<72.6	-	-
Benzo (b) fluoranthene	1,000	1,000	39.8 J	-	-	-	-	ND<73.4	-	-	ND<362	ND<72.6	-	ND<73.2	-	-	ND<72.6	-	-
Benzo (k) fluoranthene	800	800	45.9 J	-	-	-	-	ND<73.4	-	-	ND<362	ND<72.6	-	ND<73.2	-	-	ND<72.6	-	-
Chrysene	1,000	1,000	50.9 J	-	-	-	-	ND<73.4	-	-	ND<362	ND<72.6	-	ND<73.2	-	-	ND<72.6	-	-
Fluoranthene	100,000	100,000	68.4 J	-	-	-	-	ND<73.4	-	-	ND<362	ND<72.6	-	ND<73.2	-	-	ND<72.6	-	-
1-Methylnaphthalene	NS	NS	129	-	-	-	-	ND<73.4	-	-	ND<362	1,010	-	ND<73.2	-	-	ND<72.6	-	-
2-Methylnaphthalene	NS	410	286	-	-	-	-	ND<73.4	-	-	ND<362	***2,680***	-	67.0 J	-	-	ND<72.6	-	-
Naphthalene	12,000	12,000	97	-	-	-	-	ND<73.4	-	-	ND<362	1,070	-	ND<73.2	-	-	ND<72.6	-	-
Pyrene	100,000	100,000	55.5 J	-	-	-	-	ND<73.4	-	-	ND<362	ND<72.6	-	ND<73.2	-	-	ND<72.6	-	-
PCBs (µg/kg)																			
Total PCBs	NS	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals (mg/kg)																			
Arsenic	NS	13	0.498 J	-	-	-	-	ND<1.56	-	-	0.510 J	0.390 J	-	0.456	-	-	0.595 J	-	-
Barium	NS	350	129	-	-	-	-	127	-	-	126.0	149.0	-	161.0	-	-	151.0	-	-
Chromium	NS	30	22.2	-	-	-	-	21.5	-	-	24.7	19.3	-	23.6	-	-	22.5	-	-
Mercury	NS	0.18	ND<0.0086	-	-	-	-	ND<0.0086	-	-	ND<0.0084	ND<0.0091	-	ND<0.0090	-	-	ND<0.0086	-	-
Lead	NS	63	4.78	-	-	-	-	3.06	-	-	3.37	7.04	-	4.01	-	-	4.20	-	-

Continued

Table 1
Soil Sample Results Summary
Sun Valley Nursery
136 & 138-140 Croton Avenue
Ossining, New York

Sample Identification			SB-7/5-10	SB-7/13-15	SB-8/2-4	SB-8/5-10	SB-8/10-15	SB-9/0-5	SB-9/5-10	SB-9/13-15	SB-10/0-5	SB-10/5-10	SB-10/10-12	SB-11/2-4	SB-11/5-10	SB-12/1-3	SB-12/5-10	SB-12/10-15	SB-13/4-5
Sample Depth	**Soil Cleanup**	**Unrestricted**	**5' - 10'**	**13' - 15'**	**2' - 4'**	**5' - 10'**	**10' - 15'**	**0' - 5'**	**5' - 10'**	**13' - 15'**	**0' - 5'**	**5' - 10'**	**10' - 12'**	**2' - 4'**	**5' - 10'**	**1' - 3'**	**5' - 10'**	**10' - 15'**	**4' - 5'**
Sample Date	**Level**	**Use SCO**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/17/2017**	**11/17/2017**	**11/17/2017**	**11/17/2017**	**11/17/2017**	**11/17/2017**	**11/17/2017**	**11/17/2017**	**11/17/2017**
PID (ppm)																			
Total VOCs	NS	NS	1.7	1.9	1,240	7.2	5.2	0.2	3.0	12.6	0.0	0.0	0.0	1,472	2.9	0.0	0.0	0.0	0.0
VOCs (µg/kg)																			
Benzene	60	60	-	ND<4.73	ND<55.0	-	-	-	-	ND<9.69	-	-	ND<4.73	***2,040***	-	ND<5.16	-	-	-
n-Butylbenzene	12,000	12,000	-	ND<4.73	57.2	-	-	-	-	ND<9.69	-	-	ND<4.73	5,230	-	ND<5.16	-	-	-
sec-Butylbenzene	1,000	NS	-	ND<4.73	44.5 J	-	-	-	-	ND<9.69	-	-	ND<4.73	***2,250***	-	ND<5.16	-	-	-
tert-Butylbenzene	NS	NS	-	ND<4.73	44.5 J	-	-	-	-	ND<9.69	-	-	ND<4.73	1,170 J	-	ND<5.16	-	-	-
Ethylbenzene	1,000	1,000	-	ND<4.73	30.8 J	-	-	-	-	ND<9.69	-	-	ND<4.73	***10,100***	-	ND<5.16	-	-	-
Ispropylbenzene	2,300	NS	-	ND<4.73	27.5 J	-	-	-	-	ND<9.69	-	-	ND<4.73	***2,660***	-	ND<5.16	-	-	-
4-Isopropyltoluene	10,000	NS	-	ND<4.73	23.7 J	-	-	-	-	ND<9.69	-	-	ND<4.73	2,820	-	ND<5.16	-	-	-
Methyl-tert-butyl ether (MTBE)	930	930	-	2.26 J	ND<55.0	-	-	-	-	7.09 J	-	-	ND<4.73	ND<1,270	-	ND<5.16	-	-	-
Methylene chloride	NS	50	-	ND<4.73	ND<55.0	-	-	-	-	ND<9.69	-	-	ND<4.73	ND<1,270	-	2.14 J	-	-	-
Naphthalene	12,000	12,000	-	ND<4.73	79.2	-	-	-	-	ND<9.69	-	-	ND<4.73	***12,100***	-	ND<5.16	-	-	-
n-Propylbenzene	3,900	3,900	-	ND<4.73	48.9 J	-	-	-	-	ND<9.69	-	-	ND<4.73	***5,710***	-	ND<5.16	-	-	-
Styrene	NS	NS	-	ND<4.73	ND<55.0	-	-	-	-	ND<9.69	-	-	ND<4.73	ND<1,270	-	ND<5.16	-	-	-
Toluene	700	700	-	ND<4.73	ND<55.0	-	-	-	-	ND<9.69	-	-	ND<4.73	***3,440***	-	ND<5.16	-	-	-
1,2,4-Trimethylbenzene	3,600	3,600	-	ND<4.73	153	-	-	-	-	ND<9.69	-	-	ND<4.73	***52,200***	-	ND<5.16	-	-	-
1,3,5-Trimethylbenzene	8,400	8,400	-	ND<4.73	67.1	-	-	-	-	ND<9.69	-	-	ND<4.73	***18,100***	-	ND<5.16	-	-	-
Total Xylenes	260	260	-	ND<9.46	158	-	-	-	-	ND<19.4	-	-	ND<9.47	***44,500***	-	ND<10.1	-	-	-
PAHs (µg/kg)																			
Benzo (a) anthracene	1,000	1,000	-	ND<73.9	ND<3,480	-	-	-	-	ND<73.2	-	-	ND<72.4	ND<73.1	-	ND<73.0	-	-	ND<73.1
Benzo (a) pyrene	1,000	1,000	-	ND<73.9	ND<3,480	-	-	-	-	ND<73.2	-	-	ND<72.4	ND<73.1	-	ND<73.0	-	-	ND<73.1
Benzo (b) fluoranthene	1,000	1,000	-	ND<73.9	ND<3,480	-	-	-	-	ND<73.2	-	-	ND<72.4	ND<73.1	-	ND<73.0	-	-	ND<73.1
Benzo (k) fluoranthene	800	800	-	ND<73.9	ND<3,480	-	-	-	-	ND<73.2	-	-	ND<72.4	ND<73.1	-	ND<73.0	-	-	ND<73.1
Chrysene	1,000	1,000	-	ND<73.9	ND<3,480	-	-	-	-	ND<73.2	-	-	ND<72.4	ND<73.1	-	ND<73.0	-	-	ND<73.1
Fluoranthene	100,000	100,000	-	ND<73.9	ND<3,480	-	-	-	-	ND<73.2	-	-	ND<72.4	ND<73.1	-	ND<73.0	-	-	ND<73.1
1-Methylnaphthalene	NS	NS	-	ND<73.9	1,810	-	-	-	-	ND<73.2	-	-	ND<72.4	1,270	-	ND<73.0	-	-	ND<73.1
2-Methylnaphthalene	NS	410	-	ND<73.9	***3,510***	-	-	-	-	ND<73.2	-	-	ND<72.4	***3,380***	-	ND<73.0	-	-	ND<73.1
Naphthalene	12,000	12,000	-	ND<73.9	2,520	-	-	-	-	ND<73.2	-	-	ND<72.4	1,500	-	ND<73.0	-	-	ND<73.1
Pyrene	100,000	100,000	-	ND<73.9	ND<3,480	-	-	-	-	ND<73.2	-	-	ND<72.4	ND<73.1	-	ND<73.0	-	-	ND<73.1
PCBs (µg/kg)																			
Total PCBs	NS	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND<21.9
Metals (mg/kg)																			
Arsenic	NS	13	-	0.529 J	2.79	-	-	-	-	0.327 J	-	-	0.712 J	0.863 J	-	0.953 J	-	-	-
Barium	NS	350	-	166.0	67.8	-	-	-	-	163.0	-	-	133.0	139	-	137.0	-	-	-
Chromium	NS	30	-	24.4	16.0	-	-	-	-	24.3	-	-	23.6	22.3	-	23.4	-	-	-
Mercury	NS	0.18	-	ND<0.0090	0.0359	-	-	-	-	ND<0.0086	-	-	ND<0.0091	ND<0.0091	-	ND<0.0080	-	-	-
Lead	NS	63	-	4.96	42.1	-	-	-	-	4.14	-	-	4.35	9.13	-	8.82	-	-	-

Notes:
Only detected compounds presented in Table
- = not analyzed for specified parameter
ug/kg = micrograms per kilogram = parts per billion = ppb
mg/kg = milligrams per kilogram = parts per million = ppm
J = concentration detected above method detection limit (MDL) but below reportable detection limit (RDL)
BDL<50 = below specified laboratory detection limit
Soil Cleanup Level from NYSDEC CP-51
SCO = Soil Clean-up Objective from 6NYCRR Subpart 375-6 and CP-51
NS = No standard in Subpart 375-6 or CP-51
Bold = Concentration greater than Soil Cleanup Level or Unrestricted Use SCO

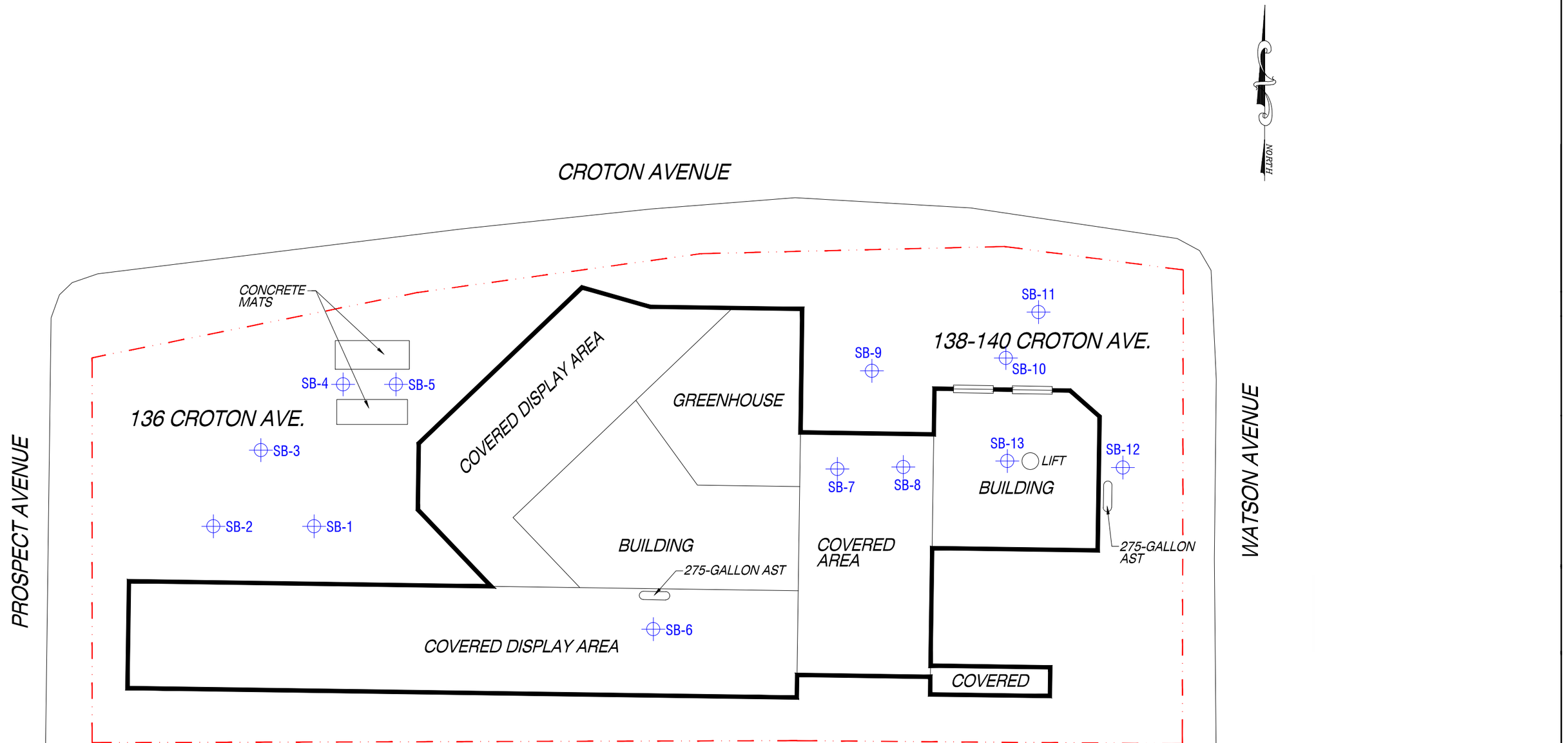
Berkshire Environmental Services & Technology, LLC

SECTION III.3: Sampling Data

For impacted medium above, see attached Figures below from the Phase II which include detailed information requested in Application Section III.3.

Section III.3: Sampling Data

Figures from November 2017 Phase II for impacted medium which includes all information requested in Application Section III.3 (Figures 1 & 2)



*Note soil borings installed by Berkshire Environmental Services & Technology, LLC

HALEY ALDRICH

136 & 138-140 Croton Avenue
Ossining, NY

SAMPLE LOCATION MAP

SEPTEMBER 2020

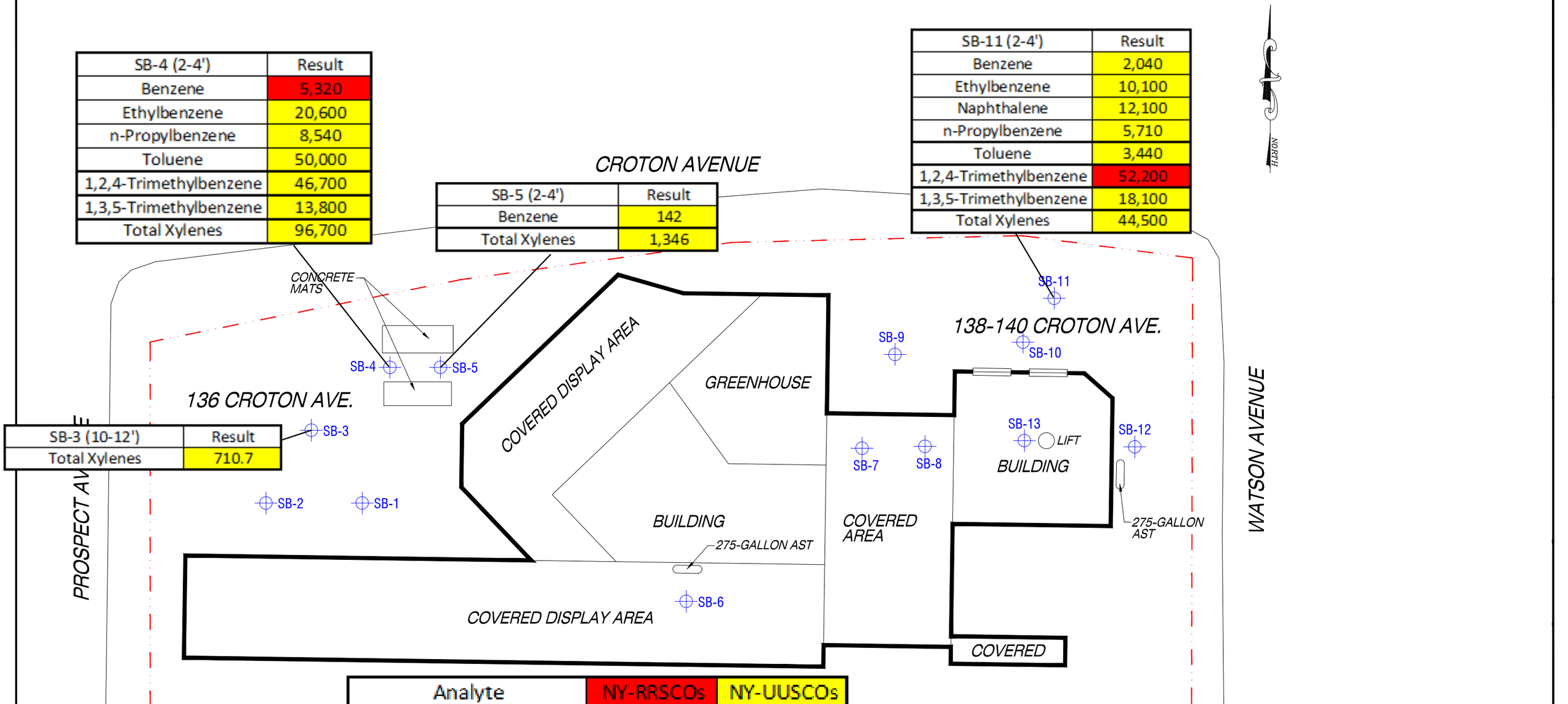
FIGURE 1

SB-4 (2-4')	Result
Benzene	5,320
Ethylbenzene	20,600
n-Propylbenzene	8,540
Toluene	50,000
1,2,4-Trimethylbenzene	46,700
1,3,5-Trimethylbenzene	13,800
Total Xylenes	96,700

SB-5 (2-4')	Result
Benzene	142
Total Xylenes	1,346

SB-11 (2-4')	Result
Benzene	2,040
Ethylbenzene	10,100
Naphthalene	12,100
n-Propylbenzene	5,710
Toluene	3,440
1,2,4-Trimethylbenzene	52,200
1,3,5-Trimethylbenzene	18,100
Total Xylenes	44,500

SB-3 (10-12')	Result
Total Xylenes	710.7



Analyte	NY-RRSCOs	NY-UUSCOs
Benzene	4,800	60
Ethylbenzene	41,000	1,000
Naphthalene	100,000	12,000
n-Propylbenzene	100,000	3,900
Toluene	100,000	700
1,2,4-Trimethylbenzene	52,000	3,600
1,3,5-Trimethylbenzene	52,000	8,400
Total Xylenes	100,000	260

*Note soil samples collected by Berkshire Environmental Services & Technology, LLC.

HALEY ALDRICH

136 & 138-140 Croton Avenue
Ossining, NY

SOIL EXCEEDANCE MAP

SEPTEMBER 2020

FIGURE 2

SECTION III.4: Past Land Uses

The site was undeveloped land prior to the construction of the Site buildings in the 1940s and 1950s. Two buildings were constructed with Building #1 used as a retail gasoline station and automotive repair garage until 1981 and building #2 serving the same purpose until 1996. USTs were historically located on both Site parcels (136 and 138-140 Croton Avenue). Four 10,000-gallon gasoline USTs on the western side of the 136 Croton Avenue parcel were removed in 1981 and were confirmed to be leaking. Additionally, there were three gasoline USTs of unknown size historically located on the northern side of the 138-140 Croton Avenue parcel, which appear to have also been removed. There was also a former presence of an inground hydraulic lift on the 136 Croton Avenue parcel and the remains of an inground hydraulic lift inside the building on the 138-140 Croton Avenue parcel. After serving as the gasoline service station and automotive repair garage, the site operated as a nursery until 2017 and has remained vacant since. Amak Development, LLC currently owns the property and purchased the site on March 30, 2018. The greenhouse structures were demolished in February 2020.

ATTACHMENT D

Section IV: PROPERTY INFORMATION

Section IV: PROPERTY DESCRIPTION NARRATIVE

Proposed Site Name
The Site name for this project will be the 136-140 Croton Avenue Site.

Site Address
The Site's address is 136-140 Croton Avenue, Ossining, NY 10562. The Site is located in Westchester County, New York.

Site Size
The site consists of 2 parcels of land; 136 Croton Avenue is 0.5 acres and 138-140 Croton Avenue is 0.3 acres.

GIS Information

Latitude: 10° 10' 1.5" Longitude: 73° 51' 8.0"

Tax Parcel Information

The Site is identified as Westchester Block 7 Lots 79 & 80. The site is in a suburban area of the town of Ossining, located on the southwestern corner of Croton Avenue and Watson Avenue.

Section IV.1: Tax Map Boundaries

The legal description is as follows:

BEGINNING at the corner forming the intersection of the southerly side of Croton Avenue with the westerly side of Watson Avenue;

RUNNING THENCE along the westerly side of Watson Avenue, South 10 degrees 23 minutes 00 seconds West, 124.35 feet;

THENCE North 79 degrees 37 minutes 00 seconds West 284.95 feet to the easterly side of Prospect Avenue;

THENCE along the easterly side of Prospect Avenue, North 10 degrees 23 minutes 09 seconds East, 129.12 feet to the southerly side of Croton Avenue;

THENCE along the southerly side of Croton Avenue, the following five (5) courses and distances:

1. *South 89 degrees 56 minutes 30 seconds East 94.83 feet*
2. *South 88 degrees 16 minutes 50 seconds East 66.61 feet*
3. *South 80 degrees 33 minutes 50 seconds East 83.69 feet*
4. *South 74 degrees 45 minutes 50 seconds East 12.63 feet*
5. *South 70 degrees 48 minutes 10 seconds East 30.77 feet to the westerly side of Watson Avenue and the point or place of the BEGINNING*

The deed notice recorded on April 16, 2018 is attached below.

Section IV.2: Map
A site location map is included in **Figure 3**. An aerial photograph of the Site is included in **Figure 4**. A tax map of the Site and surrounding properties is included as **Figure 5**.

Section IV.3: En-zone
The Site is located in Census Tract 135 and is not located within an EnZone. The poverty rate is 11.2%.

Section IV.4: *Multiple Applications:*
Not Applicable.

Section IV.10: Property Description:

Location
The site is in a suburban area of the town of Ossining, located on the southwestern corner of Croton Avenue and Watson Avenue.

Site Features
The site is currently a rectangular-shaped, undeveloped, and vacant lot without site features.

Current Zoning and Land Use
The site is currently vacant. The site is zoned for mixed-use commercial and residential development. The surrounding properties are currently used for commercial and residential purposes. The nearest residential buildings are immediately on properties to the south of the Site.

Past Uses of the Site
The site was undeveloped land prior to the construction of the Site buildings in the 1940s and 1950s. Two buildings were constructed with Building #1 used as a retail gasoline station and automotive repair garage until 1981 and building #2 serving the same purpose until 1996. USTs were historically located on both Site parcels (136 and 138-140 Croton Avenue). Four 10,000-gallon gasoline USTs on the western side of the 136 Croton Avenue parcel were removed in 1981 and were confirmed to be leaking. Additionally, there were three gasoline USTs of unknown size historically located on the northern side of the 138-140 Croton Avenue parcel, which appear to have also been removed. There was also a former presence of an inground hydraulic lift on the 136 Croton Avenue parcel and the remains of an inground hydraulic lift inside the building on the 138-140 Croton Avenue parcel. After serving as the gasoline service station and automotive repair garage, the site operated as a nursery until 2017 and has remained vacant since.

Site Geology and Hydrogeology
The Site is approximately 290 feet above mean sea level and slopes downward to the west and south, with a sharp upward slope along the southern border. The stratigraphy of the Site, from the surface down, consists of 0-5 feet of brown fine to medium sand and silt. From 5-10 feet, brown fine to medium sand with the addition of some cobbles. From 10-15 feet the soil consists of brown fine to medium sand and cobbles with trace clays. The surficial geology on the site is composed of till. Till consists of clay, clay-silt, and boulder clay. It is generally poorly sorted and relatively impermeable. Groundwater flow is

estimated to be in a northerly to northwesterly direction, and the depth to groundwater is unknown. The Hudson River is located approximately 1 mile west of the site.

Environmental Assessment

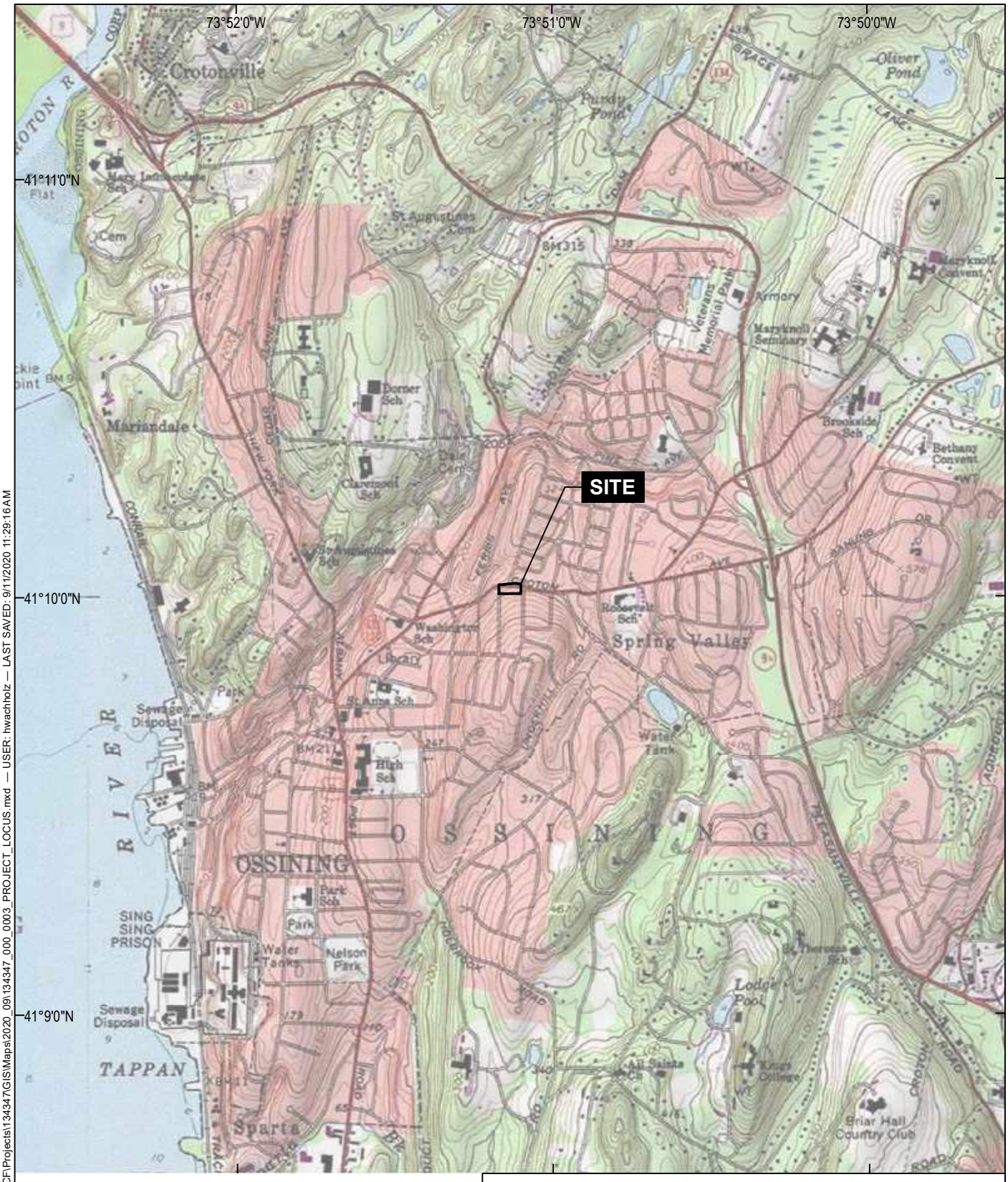
Based on the investigations conducted to date, the primary contaminants of concern for the Site are volatile organic compounds and metals.

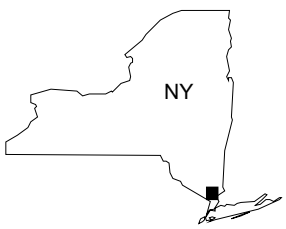
Soil - Volatile organic compounds including ethylbenzene (maximum 20,600 µg/kg), naphthalene (maximum 12,100 µg/kg), n-propylbenzene (maximum 8,540 µg/kg), toluene (maximum 50,000 µg/kg), 1,3,5-trimethylbenzene (maximum 18,100 µg/kg), and total xylenes (maximum 96,700 µg/kg) were detected in soil depths of 0-15 feet below the surface and exceed their respective Soil Cleanup Level or NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs). Concentrations of benzene (maximum 5,320 µg/kg) exceeded NYSDEC Part 375 Restricted Residential Use Soil Cleanup Objectives (RRSCOs in the soil sample from 2-4 ft bgs from soil boring four located at the former gasoline pump island on the 136 Croton Avenue parcel. Concentrations of 1,2,4-trimethylbenzene (maximum 52,200 µg/kg) exceeded RRSCOs in the soil sample collected from soil boring 11 at 2-4 ft bgs in the former gasoline pump island on the 138-140 Croton Avenue parcel. Metals including arsenic, barium, chromium, mercury, and lead were also detected in shallow soil but did not exceed their respective UUSCOs or RRSCOs.

Groundwater - The contaminants were found in soil and it is unknown whether groundwater has been affected at the Site. Based on the Site's former use as an automotive repair garage there could be impacts to groundwater.

Soil Vapor – The contaminants were found in soil and it is unknown whether soil vapor has been affected at the Site. Based on the Site's former use as an automotive repair garage there could be impacts to soil vapor.

Summaries of the analytical data are demonstrated in **Table 1** provided in Section III. Sample locations are shown on **Figures 1 & 2** provided in Section III.







MAP SOURCE: ESRI
SITE COORDINATES: 41°10'1"N, 73°51'8"W

HALEY ALDRICH

136-140 CROTON AVE
OSSINING, NEW YORK

PROJECT LOCUS

APPROXIMATE SCALE: 1 IN = 2000 FT
SEPTEMBER 2020

FIGURE 3

GIS FILE PATH: \\haleyaldrich.com\share\CF\Projects\134347\GISMaps\2020_09\134347_000_0003_PROJECT_LOCUS.mxd — USER: hwachholz — LAST SAVED: 9/11/2020 11:29:16 AM



LEGEND

SITE BOUNDARY

NOTES

1. ALL LOCATIONS ARE APPROXIMATE.
2. AERIAL IMAGERY SOURCE: ESRI

N

0 40 80

SCALE IN FEET

HALEY ALDRICH

136-140 CROTON AVE
OSSINING, NEW YORK

SITE PLAN

SEPTEMBER 2020

FIGURE 4

GIS FILE PATH: \\haleyaldrich.com\share\CF\Projects\134347\GIS\Maps\2020_09\134347_000_0004_SITE_PLAN.mxd — USER: DFM — LAST SAVED: 9/11/2020 1:32:34 PM



LEGEND

SITE BOUNDARY

TAX PARCEL BOUNDARY

NOTES

1. ALL LOCATIONS ARE APPROXIMATE.
2. TAX PARCEL SOURCE: NEW YORK GIS
3. AERIAL IMAGERY SOURCE: ESRI

N

0 50 100

SCALE IN FEET

HALEY ALDRICH

136-140 CROTON AVE
OSSINING, NEW YORK

TAX MAP

SEPTEMBER 2020

FIGURE 5

GIS FILE PATH: \\haleyaldrich.com\share\CFI\Projects\134347\GIS\Maps\2020_09\134347_000_0005_TAX_MAP.mxd — USER: DFM — LAST SAVED: 9/11/2020 1:53:04 PM

Section IV: Deed Notice

The Office of the Westchester County Clerk: This page is part of the instrument the County Clerk will rely on the information provided on this page for purposes of indexing this instrument. To the best of submitter's knowledge, the information contained on this Recording and Endorsement Cover Page is consistent with the information contained in the attached document.

580853037DED0013

Westchester County Recording & Endorsement Page

Submitter Information

Name:	Stewart Title Insurance Company (pick up by Ramon	Phone:	914-993-9393
Address 1:	711 Westchester Avenue, Ste 302	Fax:	914-997-1698
Address 2:		Email:	nymetrorecordings@stewart.com
City/State/Zip:	White Plains NY 10604	Reference for Submitter:	1731476- AMAK

Document Details

Control Number: **580853037** Document Type: **Deed (DED)**

Package ID: 20180326000260001003 Document Page Count: **3** Total Page Count: **5**

Parties

☐ Additional Parties on Continuation page

1st PARTY		2nd PARTY	
1: BOMBA VINCENZO	- Individual	1: AMAK DEVELOPMENT LLC	- Other
2: BOMBA ANTONIETTA	- Individual	2:	

Property

☑ Additional Properties on Continuation page

Street Address: 136 CROTON AVENUE Tax Designation: 89.16-7-79

City/Town: OSSINING TOWN Village: OSSINING

Cross- References

☐ Additional Cross-Refs on Continuation page

1: 2: 3: 4:

Supporting Documents

1: RP-5217 2: TP-584

Recording Fees

Statutory Recording Fee:	$40.00
Page Fee:	$20.00
Cross-Reference Fee:	$0.00
Mortgage Affidavit Filing Fee:	$0.00
RP-5217 Filing Fee:	$250.00
TP-584 Filing Fee:	$5.00
Total Recording Fees Paid:	**$315.00**

Transfer Taxes

Consideration:	$795,000.00
Transfer Tax:	$3,180.00
Mansion Tax:	$0.00
Transfer Tax Number:	11742

Mortgage Taxes

Document Date:

Mortgage Amount:

Basic:	$0.00
Westchester:	$0.00
Additional:	$0.00
MTA:	$0.00
Special:	$0.00
Yonkers:	$0.00
Total Mortgage Tax:	**$0.00**

Dwelling Type: Exempt: ☐

Serial #:

RECORDED IN THE OFFICE OF THE WESTCHESTER COUNTY CLERK

Recorded: 04/16/2019 at 02:33 PM

Control Number: **580853037**

Witness my hand and official seal

Timothy C. Idoni
Westchester County Clerk

Record and Return To

☐ Pick-up at County Clerk's office

LOUIS P. PITTOCCO, ESQ.
90 GREENWICHAVENUE

GREENWICH , CT 06830

The Office of the Westchester County Clerk: This page is part of the instrument. the County Clerk will rely on the information provided on this page for purposes of indexing this instrument. To the best of submitter's knowledge the information contained on this Recording and Endorsement Cover Page is consistent with the information contained in the attached document

580853037DED0013

Westchester County Recording & Endorsement Page

Document Details

Control Number: **580853037** Document Type: **Deed (DED)**

Package ID: 20180326000260001003 Document Page Count: 3 Total Page Count: 5

Properties Addendum

138/140 CROTON AVENUE	10562	OSSINING TOWN	OSSINING	89.16 7 80

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT-THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY

T134476

STEWART TITLE INSURANCE
711 WESTCHESTER AVENUE
SUITE 302
WHITE PLAINS, NY 10604

THIS INDENTURE, made the 30th day of March , 2018

BETWEEN

Vincenzo Bomba and Antonietta Bomba, as husband and wife
5 Crescent Lane
Putnam Valley, NY 10579

party of the first part, and

AMAK DEVELOPMENT LLC
136 Croton Ave.
Ossining, NY 10562

party of the second part,
WITNESSETH, that the party of the first part, in consideration of ten dollars paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever,

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the

SEE SCHEDULE A

Being and intended to be the same premises conveyed to the party of the first part by deed dated 3/1/2017, recorded 3/29/2017 in Control No. 570593662 in the Westchester County Clerk's office.

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.

AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose. The word "party" shall be construed as if it read "parties" when ever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF:

Vincenzo Bomba

Antonietta Bomba

TO BE USED ONLY WHEN THE ACKNOWLEDGMENT IS MADE IN NEW YORK STATE

State of New York, County of Westchester ss:

On the 30th day of March in the year 2019
before me, the undersigned, personally appeared
Vincenzo Bomba & Antonietta Bomba
personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

(signature and office of individual taking acknowledgment)
LOUIS P. PITTOCCO
NOTARY PUBLIC-STATE OF NEW YORK
No. 02PP6248092
Qualified In Westchester County
My Commission Expires 03-06-2019

State of New York, County of ss:

On the day of in the year
before me, the undersigned, personally appeared

personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

(signature and office of individual taking acknowledgment)
Louis M. Spizzirro, Esq.
Notary Public State of New York
No. 02SP6248092
Qualified in Westchester County
My Commission Expires 03-06-2019

TO BE USED ONLY WHEN THE ACKNOWLEDGMENT IS MADE OUTSIDE NEW YORK STATE

State (or District of Columbia, Territory, or Foreign Country) of ss:

On the day of in the year before me, the undersigned, personally appeared

personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument, and that such individual made such appearance before the undersigned in the

_____ in _____.
(insert the City or other political subdivision) (and insert the State or Country or other place the acknowledgment was taken)

(signature and office of individual taking acknowledgment)

BLOCK 7
LOT 79 & 80
COUNTY OF WESTCHESTER
STREET ADDRESS :
136-138-140 Croton Ave.
Ossining, NY 10562

BARGAIN AND SALE DEED
WITH COVENANT AGAINST GRANTOR'S ACTS

Title No. **STWP 1731476**

Recorded at Request of
New York Title Research Corp

RETURN BY MAIL TO:

Louis P. Pittocco, Esq.
90 Greenwich Ave.
Greenwich, CT 06830

STANDARD FORM OF NEW YORK BOARD OF TITLE UNDERWRITERS
Distributed by

THIS SPACE FOR USE OF RECORDING OFFICE

SCHEDULE A DESCRIPTION

File No.: **STT7-31476** Policy No.: **O-8911-812650**

Parcel I:

ALL that certain plot, piece or parcel of land, situate, lying and being in the Village and Town of Ossining, County of Westchester and State of New York, known and designated as Lots Nos. 10, 11, 12, 13, 14, 15 and 16 on a certain map entitled, "Subdivision of Butler Ridge, Village of Ossining, Town of Ossining, Westchester Co., N.Y.", made by Applebee & Slater, Engineers and Surveyors, and filed in the Office of the Westchester County Clerk's Office, Division of Land Records on February 9, 1928 in Volume 67 of Maps at Page 32.

Parcel II:

ALL that certain plot, piece or parcel of land, situate, lying and being in the Village and Town of Ossining, County of Westchester and State of New York, known and designated as Lots Nos. 6, 7, 8 and 9 on a certain map entitled "Subdivision of Butler Ridge, Village of Ossining, Town of Ossining, Westchester Co., N.Y.", made by Applebee & Slater, Engineers and Surveyors, and filed in the Westchester County Clerk's Office, Division of Land Records on February 9, 1928 in Volume 67 of Maps at Page 32.

OVERALL DESCRIPTION:

ALL that certain plot, piece or parcel of land, situate, lying and being in the Village and Town of Ossining, County of Westchester and State of New York, known and designated as Lots Nos. 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16 on a certain map entitled, "Subdivision of Butler Ridge, Village of Ossining, Town of Ossining, Westchester Co., N.Y.", made by Applebee & Slater, Engineers and Surveyors, and filed in the Office of the Westchester County Clerk's Office, Division of Land Records on February 9, 1928 in Volume 67 of Maps at Page 32;

BEGINNING at the corner forming the intersection of the southerly side of Croton Avenue with the westerly side of Watson Avenue;

RUNNING THENCE along the westerly side of Watson Avenue, South 10 degrees 23 minutes 00 seconds West, 124.35 feet;

THENCE North 79 degrees 37 minutes 00 seconds West 284.95 feet to the easterly side of Prospect Avenue;

THENCE along the easterly side of Prospect Avenue, North 10 degrees 23 minutes 09 seconds East, 129.12 feet to the southerly side of Croton Avenue;

THENCE along the southerly side of Croton Avenue, the following five (5) courses and distances:

1. South 89 degrees 56 minutes 30 seconds East, 94.83 feet;

2. South 88 degrees 16 minutes 50 seconds East, 66.61 feet;

3. South 80 degrees 33 minutes 50 seconds East, 83.69 feet;

4. South 74 degrees 45 minutes 50 seconds East 12.63 feet;

5. South 70 degrees 48 minutes 10 seconds East, 30.77 feet to the westerly side of Watson Avenue and the point or place of BEGINNING.

ATTACHMENT E

Section V: ADDITIONAL REQUESTOR INFORMATION

Section V- ADDITIONAL REQUESTOR INFORMATION

Current Owner and Operator

The current owner is Amak Development, LLC, the requestor. Requestor has owned the site since March 30, 2018. The site is currently vacant and not operated by any party.

Previous Owners and Operators

List of Previous Owners and Operators of 136 Croton Avenue (Western Parcel)

Date(s)	Owner per Deed	Address	Relationship to Requestor	Operators (as per city directories)	Relationship to Requestor
12/17/1981-3/30/2018	Vincent Bomba & Antoinette Bomba	21 Birch Hill Rd, Putnam Valley, NY 10579	None	2000- Sun Valley Nursery, Inc. 1992- Sun Valley Farms 1986- Sun Valley FM Market	None
9/9/1974-12/17/1981	Key Petroleum Corp.	530 Willett Ave, Port Chester, NY 10573	None	1976- Joe's Service Center	None
1/23/1974-9/9/1974	Fortini Family Realty Co. Inc.	136 Croton Ave, Ossining, NY	None	N/A	None
1/15/1974-1/23/1974	Joseph R. Fortini	65 Ganung Drive, Ossining, NY	None	N/A	None
1/2/1973-1/15/1974	Key Petroleum Corp.	225 Westchester Ave, Port Chester, NY	None	N/A	None
1/21/1955-1/26/1973	William O. Mehlich	97 Brookby Rd, Scarsdale, NY	None	N/A	None
9/12/1949-1/21/1955	Landgraf & Ziegler, Incorporated	139 Croton Ave, Ossining, NY	None	N/A	None
10/17/1945-9/12/1949	Henry Landgraf	Yates Ave, Ossining, NY	None	N/A	None

List of Previous Owners and Operators of 138-140 Croton Avenue (eastern parcel)

Date(s)	Owner per Deed	Address	Relationship to Requestor	Operators (as per city directories)	Relationship to Requestor
12/6/1996-3/30/2018	Vincent Bomba & Antoinette Bomba	21 Birch Hill Rd, Putnam Valley, NY 10579	None	Sun Valley Nursery	None
7/18/1980-12/6/1996	Alfredo Sanducci/Modestino Sanducci/Ettore Sanducci	95 Narragansett Ave, Ossining, NY/ 31 Allapartus Rd, Ossining, NY/ Meadowbrook Dr, Ossinnig, NY	None	1981- Ippoliti Bros. 1986- Briar Taxi 1992- Lidia Cruz	None
12/10/1979-7/18/1980	Sylvia Greenbaum	14 Westview Ave, Apt. 600, Tuckahoe, NY	None	N/A	None
11/14/1946-12/10/1979	Leo T. Herman	1855 Monroe Ave, Bronx, NY	None	1976- Mared Service Center	None
3/28/1946-11/14/1946	Edmund J. McRickard	Scarborough Rd, Briarcliff Manor, NY	None	N/A	None
1/28/1946-3/28/1946	Ringstown, Inc	40 Wall St, New York, NY	None	N/A	None
12/3/1945-1/28/1946	Gedney Ridge Company, Inc.	Depot Plaza, White Plains, NY	None	N/A	None
4/19/1932-12/3/1945	Bessie H. Montgomery	571 Locust Ave, Port Chester, NY	None	N/A	None

ATTACHMENT F

Section VII: REQUESTOR ELIGIBILITY INFORMATION

Section VII- REQUESTOR ELIGIBILITY INFORMATION

The requestor qualifies as a "Volunteer" in the BCP because as of the date it took ownership of the Site (March 30, 2018), the Site was vacant, and there were no activities being conducted at the Site. Therefore, the requestor did not have any connection with the disposal of hazardous substances prior to its title acquisition and the requestor does not have any affiliations with any responsible party involved or associated with the Site. Requestor did not observe and is not aware of any continuing release; took the necessary steps to prevent any threatened future release; and prevented and limited human, environmental or natural resource exposure to any previously released contamination at the Site. Since taking title, the requestor has exercised appropriate care and taken reasonable steps with respect to contamination found at the Site by having a Phase I and II environmental report performed by Berkshire Environmental Services & Technology LLC. In addition, the requestor is applying to the BCP to address the contaminants detected during the investigation. As such, the requestor qualifies as a Volunteer as designed in ECL 27-1405(1)(b).

ATTACHMENT G

Section IX: CONTACT LIST INFORMATION AND ACKNOWLEDGEMENT FROM REPOSITORY

Section IX- CONTACT LIST INFORMATION

SITE CONTACT LIST

Executive:

Role	Name	Phone	Mailing Address	Email
New York State Governor	Andrew Cuomo	518-474-8390	NYS State Capitol Building Albany, NY 12224	https://www.governor.ny.gov/content/governor-contact-form
Westchester County Planning Commissioner	Norma Drummond	914-995-4402	148 Martine Avenue, Room 432 White Plains, NY 10601	Nvv1@westchestergov.comhttps://www1.nyc.gov/office-of-the-mayor/mayor-contact.page
Westchester Deputy County Executive	Ken Jenkins	914-995-2909	148 Martine Avenue, Room 432 White Plains, NY 10601	jmcdonald@westchestergov.com
Ossining Town Board	Dana Levenberg	914-762-6000	16 Croton Ave, Ossining, NY 10562	dlevenberg@townofossining.com
NY Senate District 38 Senator	David Carlucci	914-941-2041	2 Church Street, Ossining, NY 10562	carlucci@nysenate.gov
NY State Assembly District 095 Member	Sandy Galef	914-941-1111	2 Church Street, Ossining, NY 10562	GalefS@nyassembly.gov

Owners, Residents, Occupants:

The Site is currently vacant with no residents or occupants.

Owner	Contact Name	Phone	Mailing Address	Email
Amak Development, LLC	Susan Gerov	203-809-0880	116 Greenwich Avenue, Greenwich, CT 06830	gpgllc@yahoo.com

Adjacent Properties

Below is a list of the adjoining properties which are also detailed in **Figure 6.**

Owner/Entity Name	Contact Name	Site Use	Property Address	Owner Mailing Address
Sherwood Apartments LLC	Sherwood Apartments LLC	Multi-family residential home	135 Croton Ave, Ossining, NY, 10562	1670 Old Country Road, Plainview, NY, 11803
Michael Calandrello	Michael Calandrello	Commercial stores row type	139 Croton Ave, Ossining, NY, 10562	46 Ferris Pl, Ossining, NY, 10562
Risko Real Estate LLC	Risko Real Estate LLC	1 story single occupancy building	144 & 146 Croton Ave, Ossining, NY, 10562	144 & 146 Croton Ave, Ossining, NY, 10562
James P Crisci and Mary Delaney	James P Crisci and Mary Delaney	Single family home	4 Watson Ave, Ossining, NY, 10562	4 Watson Ave, Ossining, NY, 10562
Saul Inga and Celia Suscal	Saul Inga and Celia Suscal	Single family home	15 Prospect Ave, Ossining, NY, 10562	15 Prospect Ave, Ossining, NY, 10562

Guido Alvarez	Guido Alvarez	Two family home	132 Croton Ave, Ossining, NY, 10562	132 Croton Ave, Ossining, NY, 10562

Local News and Media

Owner/Entity Name	Type	Address	Phone	Website
Ossining Daily Voice	Online	N/A	N/A	https://dailyvoice.com/new-york/ossining/
News 12 Westchester	Television	6 Executive Plaza, Yonkers, NY 10701	914-378-4800	http://westchester.news12.com/

Public Water Supply

Public water supply is a shared responsibility between the New York City Department of Environmental Protection (NYCDEP) and the Ossining Water Department.

Owner/Entity Name	Contact	Address	Phone	Email
Ossining Water Department	N/A	101 NY-9A. Ossining, NY 10562	914-941-6111	N/A
NYCDEP	Vincent Sapienza Commissioner	59-17 Junction Blvd. Flushing, NY 11373	718-595-6565	Itcp@dep.nyc.gov

Additional Requests:

We are unaware of any requests to be included on the contact list for the 136-140 Croton Avenue Site.

School or Day Care located on or proximal to the site:

There are no schools or daycares located on the Site. The following schools or day care facilities are located within ½- mile radius to the site.

School/Day Care Name	Approximate distance from Site in feet and (directional)	Administrator	Phone	Address
Roosevelt Elementary School, Ossining, NY	0.3 miles	Michelle Grier	914-762-2682	190 Croton Avenue, Ossining, NY, 10562
Claremont Elementary School	0.5 miles	Ferzeen Shamsi	914-762-5830	2 Claremont Rd, Ossining, NY 10562
123 Steps Day care	0.5 miles	Veronica Nunez	914-236-3529	81 Ferris Pl, Ossining, NY 10562
Little Friends Day school	0.5 miles	N/A	914-762-0531	15 Campwoods Rd, Ossining, NY 10562

Document Repository:

The Ossining Public Library and the Village of Ossining Planning Department were notified on 8 September 2020 via email regarding utilizing their space as document repositories. Documentation of the outreach and confirmation from the Ossining Public Library and the Village of Ossining Planning Department are attached below. The repository information is detailed below:

Owner/Entity Name	Contact	Address	Phone	Email
Ossining Public Library	Karen LaRocca-Fels	53 Croton Ave, Ossining, NY 10562	914-941-2416	klaroccafels@wlsmail.org
The Village of Ossining Planning Department	Jaime Martinez	101 Briarcliff-Peekskill Parkway, Ossining, NY 10562	914-762-6232	jmartinez@villageofossining.org

Community Board:

Owner/Entity Name	Contact	Address	Phone	Email
Ossining Town Board	Dana A. Levenberg	16 Croton Ave, Ossining, NY 10562	914-762-6000	dlevenberg@townofossining.com

135 Croton Ave
Block 2 Lot 88
Multi-Family residential home
Owner: Sherwood Apartments, LLC

139 Croton Ave
Block 3 Lot 80
Commercial Stores- row type
Owner: Michael Calandrello

144 & 146 Croton Ave
Block 6 Lot 1
one story single occupancy building
Owner: Risko Realty, LLC

132 Croton Ave
Block 7 Lot 53
Two-Family home
Owner: Guido Alvarez

15 Prospect Ave
Block 7 Lot 78
Single Family home
Owner: Saul Inga & Celia Suscal

4 Watson Ave
Block 7 Lot 78
Single Family home
Owner: James P. Crisci & Mary Delaney

CROTON AVENUE
SHERWOOD AVENUE
PROSPECT AVENUE
WATSON AVENUE

5542004074
5542004075
5542004076
5542004073
5542004830
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5542005026
5542005049
5542004968
5542005033
5542004969
5542005025
5542005048

LEGEND

SITE BOUNDARY

TAX PARCEL BOUNDARY

NOTES

1. ALL LOCATIONS ARE APPROXIMATE.
2. TAX PARCEL SOURCE: NEW YORK GIS
3. AERIAL IMAGERY SOURCE: ESRI

N

0 50 100
SCALE IN FEET

HALEY ALDRICH

136-140 CROTON AVE
OSSINING, NEW YORK

Adjacent Site Information

Figure 6

SEPTEMBER 2020

GIS FILE PATH: \\haleyaldrich.com\share\CF\Projects\134347\GISMaps\2020_09\134347_000_0005_TAX_MAP.mxd — USER: DFM — LAST SAVED: 9/11/2020 1:53:04 PM

HALEY & ALDRICH OF NEW YORK
237 West 35th Street
16th Floor
New York, NY 10123
Tel: 646.277.5686

8 September 2020
File No. 134347-002

The Village of Ossining Planning Department
101 Briarcliff-Peekskill Parkway
Ossining, NY 10562
Via email: jmartinez@villageofossining.org
Attn: Jaime Martinez

Subject: Brownfield Cleanup Program Application – Request for Repository Use
136-140 Croton Avenue,
Ossining, New York 10562

Dear Mr. Martinez

Haley & Aldrich of New York (Haley & Aldrich), on behalf of Amak Development, LLC, is requesting use of the Village of Ossining Planning Department as a document repository for the anticipated project located at 136-140 Croton Avenue, Ossining, NY. The New York State Department of Environmental Conservation (NYSDEC) requires a letter certifying that the proposed document repository is able to serve as a public repository for all documents pertaining to the environmental cleanup at the Site. Please sign below denoting that your Planning Department would be amenable to serving as a temporary public repository.

Should you have any questions, please do not hesitate to give me a call at (646) 277-5686.

Thank you,
HALEY & ALDRICH OF NEW YORK

James M. Bellew
Senior Associate

The Village of Ossining Planning Department is willing to act as a public document repository holding and making available of all provided environmental related to the 136-140 Croton Avenue Brownfield Cleanup Project.

Jaime Martinez
Name

9/17/2020
Date

Planning Director, Village of Ossining
Title

HALEY & ALDRICH OF NEW YORK
237 West 35th Street
16th Floor
New York, NY 10123
Tel: 646.277.5686

8 September 2020
File No. 134347-002

Ossining Public Library
53 Croton Avenue,
Ossining, NY 10562
Via email: klaroccafels@wlsmail.org
Attn: Karen LaRocca-Fels

Subject: Brownfield Cleanup Program Application – Request for Repository Use
136-140 Croton Avenue,
Ossining, New York 10562

Dear Ms. LaRocca-Fels:

Haley & Aldrich of New York (Haley & Aldrich), on behalf of Amak Development, LLC, is requesting use of the Ossining Public Library as a document repository for the anticipated project located at 136-140 Croton Avenue, Ossining, NY. The New York State Department of Environmental Conservation (NYSDEC) requires a letter certifying that the proposed document repository is able to serve as a public repository for all documents pertaining to the environmental cleanup at the Site. Please sign below denoting that your library would be amenable to serving as a temporary public repository.

Should you have any questions, please do not hesitate to give me a call at (646) 277-5686.

Thank you,
HALEY & ALDRICH OF NEW YORK

James M. Bellew
Senior Associate

The Ossining Public Library is willing to act as a public document repository holding and making available of all provided environmental related to the 136-140 Croton Avenue Brownfield Cleanup Project.

Karen LaRocca-Fels
Name

9/23/2020
Date

Library Director
Title

ATTACHMENT H

Section X: LAND USE FACTORS

ATTACHMENT H: SECTION X – LAND USE FACTORS

The site is zoned as NC-2 which is mixed-use commercial and residential, and the site is surrounded by buildings used for these purposes.

The site is currently vacant, unutilized, and most recently operated as a nursery. The two greenhouse structures were demolished in February 2020 and the Site has remained vacant since. Known contamination on the site has most likely been caused by the historic use of the Site as a gasoline service station and automotive repair garage.

The proposed development plans are conceptual at this time, the anticipated project will consist of mixed-use residential and commercial development.

The Site is currently zoned as a mixed-use commercial and residential district NC-2. The proposed use is conforming to the current zoning laws. The zoning map is included below.

The Town of Ossining is in the process of evaluating request for proposals to develop a Comprehensive Plan with sustainability elements. The core elements of the plan include the following:

- Housing diversity and affordable housing;
- School district capacity;
- Fiscal sustainability;
- Maintaining or reducing taxes for residents considering limits in state funding for local governments and school districts;
- Traffic congestion;
- Increasing mobility and walkability throughout town;
- Changing trends in retail and office space and its impact on the North State Road business corridor as well as office parks; and
- Environmental sustainability in the face of climate change.

Ownership is evaluating the potential for implementation of affordable housing with the local planning board. The future commercial/retail tenants will add jobs and increase the mobility and walkability throughout this portion of the Town.

TOWN OF OSSINING, NEW YORK

ZONING MAP

Revised Through November 1997

SCALE IN FEET
0 400 800 1200 1600 2000

SCALE IN METERS
0 100 200 300 400 500

NORTH

FREDERICK P. CLARK ASSOCIATES, INC.
Planning/Development/Environment/Transportation

ZONING DISTRICTS

R-40	One-Family Residence District	NC	Neighborhood Commercial District
R-35	One-Family Residence - Office District	GB	General Business District
R-30	One-Family Residence District	GB-1	General Business District-1
R-20	One-Family Residence District	O-RM	Office-Research Manufacturing District
R-20A	One-Family Residence District	BE	Business Education District
R-15	One-Family Residence District		
R-15X	One-Family Residence - Office District		
R-10	One-Family Residence District		
R-7.5	One-Family Residence District		
R-5	One-Family Residence District		
MF	Multi-Family Residence District		

SOURCE:
Planimetric information reproduced from the 1:9600 scale Urban Area Map Series prepared by the New York State Department of Transportation.
Property line information, where shown, is based upon information obtained from Town of Ossining tax maps, as updated through September 1979.
Map base from 1967 U.S. Geological Survey 7.5 minute quadrangle.
Contours, at 10 foot intervals, from 1967 U.S. Geological Survey Map.
Datum is mean sea level.

Appendix B:

Geophysical Report

RSK Environmental Group

BROOKLYN: 3611 14TH AVE. Suite #551 Brooklyn NY 11218 QUEENS: 132-02 89TH AVE. Suite #222 Richmond Hill, NY 11418

GEOPHYSICAL INVESTIGATION REPORT

for

136-140 Croton Avenue,
Ossining, New York 10562

Prepared for:
Coastal Environmental Solutions
100 Knickerbocker Ave,
Bohemia, New York 11716

Prepared by:
RSK Environmental Group LLC
132-02 89th Avenue, Suite 222,
Richmond Hill, New York 11418

August 20, 2021

Introduction

This report presents the results of the limited geophysical survey undertaken at 136-140 Croton Ave, Ossining, NY, completed on August 13, 2021. Currently, the site is a vacant property with demolished building. Surface conditions consisted of grass, asphalt, and concrete. Subsurface conditions were unknown at the time of the survey. The area of interest consisted of all accessible areas of the property.

Survey Objectives

- Investigate all accessible areas of the property for subsurface anomalies suspected to be underground storage tank (USTs) and/or UST- related piping.
- Locate and mark detectable underground utilities in close proximity to client proposed soil boring locations.

Equipment

GSSI SIR-4000 Cart Mounted Ground Penetrating Radar System

Ground penetrating radar is a non-destructive geophysical method that produces a continuous cross-sectional profile of subsurface features in real time. GPR operates by transmitting high frequency electromagnetic wave pulses down into the ground through a transmitter in the antenna. The transmitted electromagnetic waves reflect off materials with contrasting electrical properties from surrounding medium such as underground storage tanks, utilities, distinct contacts between different earth materials, and other various buried objects. The antenna receiver collects the reflected electromagnetic waves.

The antenna utilized is a 350MHz HS antenna mounted in a stroller frame which rolls over the surface. The total depth of penetration achieved with the antenna can be up to 10 feet but widely varies based on site-specific subsurface conditions. Conductive materials in the soil attenuate the GPR signal causing a decrease in effective depth of penetration and clarity.

Radiodetection RD7100 Receiver and TX-5 Transmitter

The RD7100 locator can detect pipes and cables in the ground at depths of up to 20 feet using active or passive tracing techniques. Passive tracing is the act of locating an underground utility through the detection of radio signals travelling along conductive utilities. Active tracing is used in conjunction with a transmitter that is directly connected to the target utility. A current is sent through the utility at a specific frequency that can be detected by the receiver. The detectability of a target utility depends on many factors including access to the target utility, grounding, depth of utility, conductivity, and many others.

TW-6 Pipe and Cable Locator

The TW-6 uses a transmitter-receiver pair that are attached to opposite end of handle that can detect buried metallic objects. The device works by inducing an electromagnetic field into the ground that is generated by the transmitter. Once the induced field passes through a buried metallic object, it couples energy into the object and generates a secondary field detected by the receiver, which then generates an audible tone.

Process

1. A utility survey of the property was performed by active and passive detection methods utilizing the RD7100 receiver and TX-5 transmitter. RSK personnel direct connected to all accessible and traceable pipes, conduits, valve covers, and any other surface feature

throughout the site. A passive scan was then performed throughout the site to detect any potential underground utilities that could not be located with active scan. All detected utilities were marked on-site in appropriate colors.

2. The TW-6 was used to sweep the entirety of the site in 3-to-5-foot spacings for readings that may represent a buried metallic anomaly. Upon detection of a reading, the approximate size and shape of the anomalous area was marked on the surface to be investigated further with GPR.
3. GPR was used to further characterize the approximate dimensions, depth, and shape of the anomalies located with the TW-6. The remainder of the site was scanned with GPR in 3-to-5-foot spacing to locate any anomalous features not previously detected such as non-conductive piping and former excavations.

Summary of Findings

Metallic Anomalies

- Metallic Anomaly #1 – A metallic anomaly was detected with the TW-6 adjacent to the southern building footprint of the western building. Approximate dimensions measure 12 feet by 6 feet. GPR transects over the area imaged a cylindrical anomaly at 2 to 3 feet bgs. The metallic anomaly is consistent with a UST.
- Metallic Anomaly #2 – A metallic anomaly was detected with the TW-6 adjacent to the western building footprint of the western building. Approximate dimensions measure 9 feet by 4 feet. GPR transects over the area imaged a cylindrical anomaly at 2 to 3 feet bgs. The metallic anomaly is consistent with a UST.

Utility Survey

RSK personnel conducted a utility survey on all accessible areas in close proximity to client proposed soil boring locations. The utilities identified include electric, unknown, and sanitary sewer.

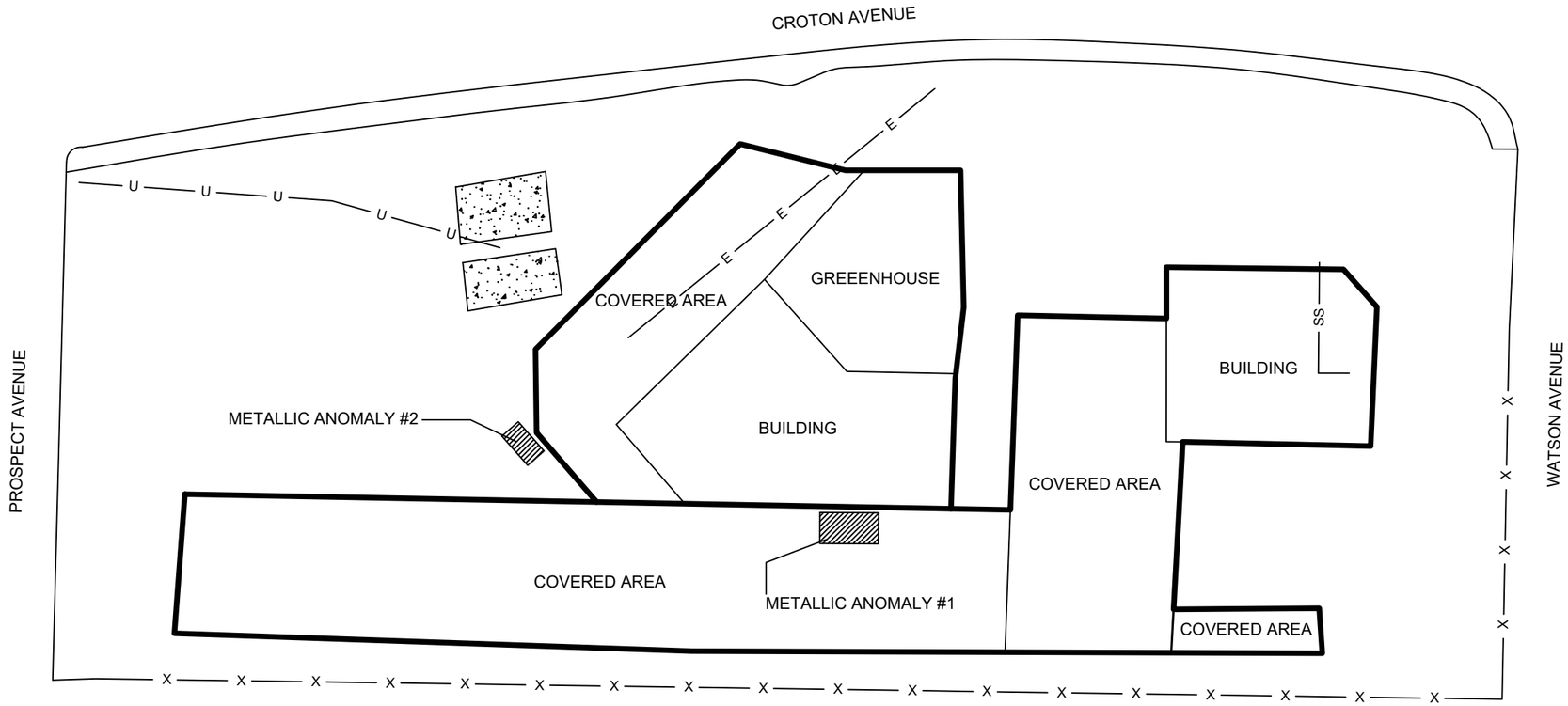
Limitations

The effective depth of GPR penetration was limited to 1 to 3 feet bgs. The limiting factor was due to soil conductivity attenuating the GPR signal. GPR transects were limited along the southern edge of the property due to dense vegetation.

Disclaimer

The survey was performed by RSK after considering the limits of the scope of work and the time constraint for the survey. The survey that is described in this report was undertaken in accordance with current accepted standards and practices of the geophysical survey industry. The results and interpretations that are presented are based on professional judgment and are as accurate as can reasonably be achieved. However, no geophysical equipment can accurately depict all subsurface features due to the geology and environmental conditions of the subsurface. Any intrusive work in proximity to identified anomalies should be carefully considered and cross-referenced with all available site-specific documentation. RSK is not liable for the use, interpretation, or application of the data and information in this report.

Figures



N

PREPARED BY:

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PREPARED FOR:

COASTAL ENVIRONMENTAL SOLUTIONS
100 KNICKERBOCKER AVENUE
BOHEMIA, NY

REVISION DATA:

REV	DATE	COMMENT	BY

SCALE: 1" = 30'

PROJECT NAME:

136-140 CROTON AVE OSSINING, NY

DRAWING TITLE:

GEOPHYSICAL INVESTIGATION REPORT

DRAWING DATA:
DATE: 8-20-21
PROJECT NO:
DRAWN BY: BM
CHECK BY:

DRAWING NO:

LEGEND:

- E — ELECTRIC
- SS — SANITARY SEWER
- U — UNKNOWN
- X — FENCE

NOTE: ALL STRUCTURES WERE DEMOLISHED AT THE TIME OF THE SURVEY. BOLD LINE REPRESENTS FOOTPRINT OF FORMER STRUCTURES

Appendix C:

Boring and Monitoring Well Logs

SESI CONSULTING ENGINEERS

PROJECT NAME:	136-140 Croton Ave	GEOPROBE NO.	**SB-1**
LOCATION:	Ossining, NY	JOB NO.	12060
METHOD:	Direct Push	GROUND ELEVATION:	
GEOPROBE BY: Coastal	DATE STARTED:	8/13/2021	GROUNDWATER TABLE DEPTH:
INSPECTOR: DA	DATE COMPLETED:	8/13/2021	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0	43	1	0			6" asphalt	0
							0
							0
						Brown medium to fine SAND, some Clay, trace Silt, some medium	0
5				5		to fine Gravel (weathered rock)	0
	39	2	5				0
					SB-1(6.0-6.5)		0
						Brown/gray medium to fine SAND with Silt, trace Clay, some medium	0
						to fine Gravel (weathered rock)	0
10				10			0
	42	3	10				0
							0
							0
							0
15				15			0
						BORING COMPLETED AT ± 15 FEET	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	136-140 Croton Ave	GEOPROBE NO.	**SB-2**
LOCATION:	Ossining, New York	JOB NO.	12060
METHOD:	Direct Push	GROUND ELEVATION:	
GEOPROBE BY: Coastal	DATE STARTED:	8/13/2021	GROUNDWATER TABLE DEPTH:
INSPECTOR: DA	DATE COMPLETED:	8/13/2021	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0	45	1	0			6" asphalt	0
							0
							0
						Brown medium to fine silty SAND, trace Clay, some medium to fine	0
5				5	SB-2(4.5-5.0)	Gravel (weathered rock)	0
	60	2	5				0
						Same as above	0
							0
							0
10				10			0
						BORING COMPLETED AT ± 10 FEET	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

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Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	136-140 Croton Ave	GEOPROBE NO.	**SB-3**
LOCATION:	Ossining, New York	JOB NO.	12060
METHOD:	Direct Push	GROUND ELEVATION:	
GEOPROBE BY: Coastal	DATE STARTED:	8/13/2021	GROUNDWATER TABLE DEPTH:
INSPECTOR: DA	DATE COMPLETED:	8/13/2021	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0	41	1	0			6" asphalt	0
							0
							0
							0
5				5		Brown medium to fine silty SAND, some Clay, some medium to fine	0
	55	2	5			Gravel	0
					SB-3 (6.0-6.5)		0
							0
							0
10				10			0
						BORING COMPLETED AT ± 10 FEET	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

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Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	136-140 Croton Ave	GEOPROBE NO.	**SB-4**
LOCATION:	Ossining, NY	JOB NO.	12060
METHOD:	Direct Push	GROUND ELEVATION:	
GEOPROBE BY: Coastal	DATE STARTED: 8/13/2021	GROUNDWATER TABLE DEPTH:	
INSPECTOR: DA	DATE COMPLETED: 8/13/2021	0 Hr.	24 Hr. Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0	45	1	0			6" asphalt	0
					NO SAMPLES		0
					COLLECTED		0
							0
5				5			0
	48	2	5			Brown medium to fine silty SAND, some medium to fine gravel	0
							0
							0
							0
10				10			0
						BORING COMPLETED AT ± 10 FEET	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

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Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	136-140 Croton Ave	GEOPROBE NO.	**SB-5**
LOCATION:	Ossining, NY	JOB NO.	12060
METHOD:	Direct Push	GROUND ELEVATION:	
GEOPROBE BY: Coastal	DATE STARTED: 8/13/2021	GROUNDWATER TABLE DEPTH:	
INSPECTOR: DA	DATE COMPLETED: 8/13/2021	0 Hr.	24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0	48	1	0			6" asphalt	0
							0
							0
							0
5				5		Brown medium to fine silty SAND, some medium to fine Gravel	0
	41	2	5			(weathered rock)	0
					SB-5 (6.0-6.5)		0
							0
							0
10				10			0
						BORING COMPLETED AT ± 10 FEET	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

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Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	136-140 Croton Ave	GEOPROBE NO.	**SB-6**
LOCATION:	Ossining, NY	JOB NO.	12060
METHOD:	Direct Push	GROUND ELEVATION:	
GEOPROBE BY: Coastal	DATE STARTED:	8/13/2021	GROUNDWATER TABLE DEPTH:
INSPECTOR: DA	DATE COMPLETED:	8/13/2021	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0	38	1	0			6" asphalt	0
							0
							0
						Brown-dark brown medium to fine silty SAND, some medium to fine	0
5				5		Gravel (weathred rock)	0
	45	2	5				0
							0
							0
							0
10				10	SB-6(9.5-10.0)		0
						BORING COMPLETED AT ± 10 FEET	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

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Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	136-140 Croton Ave	GEOPROBE NO.	**SB-7**
LOCATION:	Ossining, NY	JOB NO.	12060
METHOD:	Direct Push	GROUND ELEVATION:	
GEOPROBE BY: Coastal	DATE STARTED:	8/13/2021	GROUNDWATER TABLE DEPTH:
INSPECTOR: DA	DATE COMPLETED:	8/13/2021	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0	45	1	0			6" asphalt	0
							0
					NO SAMPLES		0
					COLLECTED	Brown medium to fine silty SAND, some medium to fine Gravel	0
5				5		(weathered rock)	0
	27	2	5				0
							0
							0
							0
10				10			0
						BORING COMPLETED AT ± 10 FEET	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

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Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	136-140 Croton Ave	GEOPROBE NO.	**SB-8**
LOCATION:	Ossining, NY	JOB NO.	12060
METHOD:	Direct Push	GROUND ELEVATION:	
GEOPROBE BY: Coastal	DATE STARTED:	8/13/2021	GROUNDWATER TABLE DEPTH:
INSPECTOR: DA	DATE COMPLETED:	8/13/2021	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0	47	1	0			6" asphalt	0
							0
							0
							0
5				5			0
	51	2	5			Brown medium to fine silty SAND, some medium to fine Gravel	0
							0
							0
							0
10				10	SB-8(9.5-10.0)		0
						BORING COMPLETED AT ± 10 FEET	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

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Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	136-140 Croton Ave	GEOPROBE NO.	**SB-9**
LOCATION:	Ossining, NY	JOB NO.	12060
METHOD:	Direct Push	GROUND ELEVATION:	
GEOPROBE BY: Coastal	DATE STARTED:	8/13/2021	GROUNDWATER TABLE DEPTH:
INSPECTOR: DA	DATE COMPLETED:	8/13/2021	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0	51	1	0			6" asphalt	0
						Brown medium to fine silty SAND, some medium to fine Gravel	0
							0
							0
5				5			0
	34	2	5				0
						Light-brown/ brown coarse to fine SAND, some medium to fine Gravel	0
					SB-9(7.5-8.0)		0
							0
10				10			0
						BORING COMPLETED AT ± 10 FEET	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

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Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	136-140 Croton Ave	GEOPROBE NO.	**SB-10**
LOCATION:	Ossining, NY	JOB NO.	12060
METHOD:	Direct Push	GROUND ELEVATION:	
GEOPROBE BY: Coastal	DATE STARTED:	8/13/2021	GROUNDWATER TABLE DEPTH:
INSPECTOR: DA	DATE COMPLETED:	8/13/2021	0 Hr. | 24 Hr. | Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0	52	1	0			6" asphalt	0
							0
							0
						Brown medium to fine silty SAND, some medium to fine Gravel	0
5				5			0
	41	2	5				0
							0
					SB-10 (7.5-8.0)		0
							0
10				10			0
						BORING COMPLETED AT ± 10 FEET	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

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Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	136-140 Croton Ave	GEOPROBE NO.	**SB-11**
LOCATION:	Ossining, NY	JOB NO.	12060
METHOD:	Direct Push	GROUND ELEVATION:	
GEOPROBE BY: Coastal	DATE STARTED:	8/16/2021	GROUNDWATER TABLE DEPTH:
INSPECTOR: DA	DATE COMPLETED:	8/16/2021	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0	51	1	0			6" asphalt	0
							0
							0
							0
5				5	SB-11(4.5-5.0)		0
	42	2	5			Brown medium to fine silty SAND, some medium to fine Gravel	0
							0
							0
							0
10				10			0
						BORING COMPLETED AT ± 10 FEET	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

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Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	136-140 Croton Ave	GEOPROBE NO.	**SB-12**
LOCATION:	Ossining, NY	JOB NO.	12060
METHOD:	Direct Push	GROUND ELEVATION:	
GEOPROBE BY: Coastal	DATE STARTED:	8/16/2021	GROUNDWATER TABLE DEPTH:
INSPECTOR: DA	DATE COMPLETED:	8/16/2021	0 Hr. | 24 Hr. | Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0	25	1	0			6" asphalt	0
					SB-12(1.0-1.5)		0
							0
						Brown medium to fine silty SAND, some medium to fine Gravel	0
5				5			0
	32	2	5				0
							0
							0
							0
10				10			0
						BORING COMPLETED AT ± 10 FEET	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

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Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	136-140 Croton Ave	GEOPROBE NO.	**SB-13**
LOCATION:	Ossining, NY	JOB NO.	12060
METHOD:	Direct Push	GROUND ELEVATION:	
GEOPROBE BY: Coastal	DATE STARTED:	8/16/2021	GROUNDWATER TABLE DEPTH:
INSPECTOR: DA	DATE COMPLETED:	8/16/2021	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0	40	1	0			6" asphalt	68.4
							228
							215
						Brown medium to fine silty SAND, some medium to fine Gravel	336
5				5	NO SAMPLES	strong odor, no staining	213
	35	2	5		COLLECTED		198
							1367
							1127
							218
10				10			54.2
	29		10				2.3
							0
							0
15				14		BORING COMPLETED AT ± 14 FEET DUE TO REFUSAL	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

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Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	136-140 Croton Ave	GEOPROBE NO.	**SB-14**
LOCATION:	Ossining, NY	JOB NO.	12060
METHOD:	Direct Push	GROUND ELEVATION:	
GEOPROBE BY: Coastal	DATE STARTED: 8/16/2021	GROUNDWATER TABLE DEPTH:	
INSPECTOR: DA	DATE COMPLETED: 8/16/2021	0 Hr.	24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0	38	1	0			6" asphalt	0
							0
							0
						Brown medium to fine silty SAND, some medium to fine Gravel	0
5				5		(weathered rock)	0
	45	2	5				0
							0
							0
							0
10				10	SB-14(9.5-10.0)		0
						BORING COMPLETED AT ± 10 FEET	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

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Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	136-140 Croton Ave	GEOPROBE NO.	**SB-15**
LOCATION:	Ossining, NY	JOB NO.	12060
METHOD:	Direct Push	GROUND ELEVATION:	
GEOPROBE BY: Coastal	DATE STARTED:	8/16/2021	GROUNDWATER TABLE DEPTH:
INSPECTOR: DA	DATE COMPLETED:	8/16/2021	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0	47	1	0			6" asphalt	0
							0
					SB-15(2.5-3.0)		0
							0
5				5			0
	49	2	5			Brown medium to fine silty SAND, some medium to fine Gravel	0
						(weathered rock)	0
							0
							0
10				10			
						BORING COMPLETED AT ± 10 FEET	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

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Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	136-140 Croton Ave	GEOPROBE NO.	**SB-16**
LOCATION:	Ossining, NY	JOB NO.	12060
METHOD:	Direct Push	GROUND ELEVATION:	
GEOPROBE BY: Coastal	DATE STARTED:	8/16/2021	GROUNDWATER TABLE DEPTH:
INSPECTOR: DA	DATE COMPLETED:	8/16/2021	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0	45	1	0			6" asphalt	0
							0
							0
						Dark-brown coarse to fine SAND, medium to fine Gravel	0
5				5			0
	40	2	5		SB-16(5.0-5.5)		0
						Light-brown/ brown coarse to fine SAND, some medium to fine Gravel	0
						moist	0
							0
10				10			0
						BORING COMPLETED AT ± 10 FEET	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

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Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	136-140 Croton Ave	GEOPROBE NO.	**SB-17**
LOCATION:	Ossining, NY	JOB NO.	12060
METHOD:	Direct Push	GROUND ELEVATION:	
GEOPROBE BY: Coastal	DATE STARTED:	8/16/2021	GROUNDWATER TABLE DEPTH:
INSPECTOR: DA	DATE COMPLETED:	8/16/2021	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0	47	1	0			6" asphalt	0
							0
							0
							0
5				5			0
	51	2	5			Brown medium to fine silty SAND, some medium to fine Gravel	0
					SB-17(6.0-6.5)		0
							0
							0
10				10			0
						BORING COMPLETED AT ± 10 FEET	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

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Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	136-140 Croton Ave	GEOPROBE NO.	**SB-18**
LOCATION:	Ossining, NY	JOB NO.	12060
METHOD:	Direct Push	GROUND ELEVATION:	
GEOPROBE BY: AARCO	DATE STARTED:	9/2/2021	GROUNDWATER TABLE DEPTH:
INSPECTOR: JRN	DATE COMPLETED:	9/2/2021	0 Hr. | 24 Hr. | Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0						Asphalt ~ 6"	0
			2			Brown Grey SILT, some medium to fine Sand, trace Clay, some	259
				2.5	SB-18_2.0_2.5	medium to fine Gravel (weathered rock)	59
							29
5							108
							159
			7				208
				7.5	SB-18_7.0_7.5		100
							2.5
10	24	1					1
						Brown Grey SILT, some medium to fine Sand, some	0
						medium to fine Gravel (weathered rock)	0
							0
							0
15							0
							0
							0
							0
							0
20	36	2					0
						Brown Hard CLAY with Silt and medium to fine gravel (weathered rock)	0
							0
							0
							0
25							0
							0
							0
							0
							0
30	112	3					0
						Brown SILT with some Sand and Medium to fine gravel (weathered Rock	0
							0
						Brown and greyHard CLAY with Silt and medium to fine gravel (weathered rock)	0
							0
35							0
							0
							0
							0
							0
40	120	4					0

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

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Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	136-140 Croton Ave	GEOPROBE NO.	**SB-18**
LOCATION:	Ossining, NY	JOB NO.	12060
METHOD:	Direct Push	GROUND ELEVATION:	
GEOPROBE BY: AARCO	DATE STARTED:	9/2/2021	GROUNDWATER TABLE DEPTH:
INSPECTOR: JRN	DATE COMPLETED:	9/2/2021	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
40						Fall back	0
							0
						Orange unconsolidated Till	0
							0
45	48	5					0
						BORING COMPLETED AT ± 45 FEET	0
							0
							0
							0
50							0
							0
							0
							0
							0
55							0
							0
							0
							0
							0
60							0
							0
							0
							0
							0
65							0
							0
							0
							0
							0
70							0
							0
							0
							0
							0
75							0
							0
							0
							0
							0
80							0

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

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Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

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FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	136-140 Croton Ave	GEOPROBE NO.	**SB-19**
LOCATION:	Ossining, NY	JOB NO.	12060
METHOD:	Direct Push	GROUND ELEVATION:	
GEOPROBE BY: AARCO	DATE STARTED:	9/2/2021	GROUNDWATER TABLE DEPTH:
INSPECTOR: JRN	DATE COMPLETED:	9/2/2021	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0						Asphalt ~ 6"	500
						Brown Grey SILT, and medium to fine Sand, some	344
			3	3.5	SB-19_3.0_3.5	medium to fine Gravel (weathered rock)	1109
			4		SB-19_4.0_4.5		800
5				4.5			600
							105
							59
							4.9
							1
10	48	1					1
						Brown SILT, some medium to fine Sand, some	0
						medium to fine Gravel (weathered rock)	0
						Dark Brown coarse to fine GRAVEL and Silt	0
							0
15							0
							0
							0
							0
							0
20	118	2					0
						Dark Brown Hard CLAY with Silt and medium to fine gravel (weathered rock)	0
							0
							0
							0
25							0
							0
							0
							0
							0
30	112	3					0
						Dark Brown Hard SILT with clay and medium to fine gravel (weathered rock)	0
							0
							0
							0
35							0
							0
							0
							0
							0
40	120	4					0

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

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Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	136-140 Croton Ave	GEOPROBE NO.	**SB-19**
LOCATION:	Ossining, NY	JOB NO.	12060
METHOD:	Direct Push	GROUND ELEVATION:	
GEOPROBE BY: AARCO	DATE STARTED:	9/2/2021	GROUNDWATER TABLE DEPTH:
INSPECTOR: JRN	DATE COMPLETED:	9/2/2021	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
40						Dark Brown Hard SILT with clay and medium to fine gravel (weathered rock)	0
							0
							0
							0
							0
45							0
							0
							0
							0
							0
50	120	5					0
						BORING COMPLETED AT ± 50 FEET	0
							0
							0
							0
							0
55							0
							0
							0
							0
							0
60							0
							0
							0
							0
							0
65							0
							0
							0
							0
							0
70							0
							0
							0
							0
							0
75							0
							0
							0
							0
							0
80							0

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

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Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	136-140 Croton Ave	GEOPROBE NO.	**SB-20**
LOCATION:	Ossining, NY	JOB NO.	12060
METHOD:	Direct Push	GROUND ELEVATION:	
GEOPROBE BY: AARCO	DATE STARTED:	9/2/2021	GROUNDWATER TABLE DEPTH:
INSPECTOR: JRN	DATE COMPLETED:	9/2/2021	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0						Asphalt ~ 6"	0
						Brown SILT, some medium to fine Sand, trace Sand, some medium to fine Gravel (weathered rock)	0
			3				0
				3.5	SB-20_3.0_3.5		0
5						Dark Brown SILT, some medium to fine Sand, trace Sand, some medium to fine Gravel (weathered rock)	0
							0
							0
							0
							0
10	24	1					0
						BORING COMPLETED AT ± 10 FEET	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

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Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	136-140 Croton Ave	GEOPROBE NO.	**SB-21**
LOCATION:	Ossining, NY	JOB NO.	12060
METHOD:	Direct Push	GROUND ELEVATION:	
GEOPROBE BY: AARCO	DATE STARTED:	9/2/2021	GROUNDWATER TABLE DEPTH:
INSPECTOR: JRN	DATE COMPLETED:	9/2/2021	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0						Topsoil and Debris ~ 6"	0
			2			Dark Brown SILT, some medium to fine Sand, trace Sand, some	0
				2.5	SB-21_2.0_2.5	medium to fine Gravel (weathered rock)	0
							0
5							0
							0
							0
							0
							0
10	24	1					0
						BORING COMPLETED AT ± 10 FEET	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

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Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	136-140 Croton Ave	GEOPROBE NO.	**SB-22**
LOCATION:	Ossining, NY	JOB NO.	12060
METHOD:	Direct Push	GROUND ELEVATION:	
GEOPROBE BY: AARCO	DATE STARTED:	9/2/2021	GROUNDWATER TABLE DEPTH:
INSPECTOR: JRN	DATE COMPLETED:	9/2/2021	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0						Asphalt	0
			2			Dark Brown SILT, some medium to fine Sand, trace Sand, some	0
				2.5	SB-22_2.0_2.5	medium to fine Gravel (weathered rock)	0
							0
5							0
							0
							0
							0
							0
10	24	1					0
						BORING COMPLETED AT ± 10 FEET	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

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Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	136-140 Croton Ave	GEOPROBE NO.	**SB-23**
LOCATION:	Ossining, NY	JOB NO.	12060
METHOD:	Direct Push	GROUND ELEVATION:	
GEOPROBE BY: AARCO	DATE STARTED:	9/2/2021	GROUNDWATER TABLE DEPTH:
INSPECTOR: JRN	DATE COMPLETED:	9/2/2021	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0						Concrete and gravel ~ 6"	0
			2			Dark Brown SILT, some medium to fine Sand, trace Sand, some	0
				2.5	SB-23_2.0_2.5	medium to fine Gravel (weathered rock)	0
							0
5							0
							0
							0
							0
							0
10	24	1					0
						BORING COMPLETED AT ± 10 FEET	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

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Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS	PROJECT NAME:	Ossining, NY	MONITORING WELL NO.	TW-1
	PROJECT LOCATION:	130-140 Croton Ave, Ossining, NY	JOB NO.	12060
	METHOD:	Direct Push	GROUND ELEVATION:	

BORING BY: Aarco	DATE STARTED 09/02/21		DEVELOPMENT PERIOD	N/A	INSIDE CASING DIAMETER (in)	2
INSPECTOR: JRN	DATE COMPLETED 09/02/21		DEVELOPMENT METHOD	N/A	BOREHOLE DIAMETER (in)	8
NJ DEP PERMIT NO.:	DATE DEVELOPED N/A		DEVELOPMENT RATE	# gpm	INITIAL WATER LEVEL (ft):	29.98

WELL CONSTRUCTION	DEPTH (ft)	Sample	Blows on Spoon 0/6	6/12	12/18	18/24	REC (in)	SOIL DESCRIPTION AND STRATIFICATION	P.I.D.
	0							Asphalt	
Depth (feet below grade)									
Top of Stickpup 3'								Brown Grey SILT, some medium to fine Sand, trace Clay, some medium to fine Gravel (weathered rock)	
Ground Surface 0									
Casing Type: N/A									
Top of Riser 0'									
	10						24		
Well Cap:gripper								Brown Grey SILT, some medium to fine Sand, some medium	
Top of Seal #								to fine Gravel (weathered rock)	
N/A N/A									
Top of Sand Pack #									
Well Key:									
N/A N/A	20						36		
Riser Pipe:								Brown hard CLAY with Silt and medium to fine gravel (weathered rock)	
2" PVC									
	30						112		
Top of Screen 32.20								Brown SILT with some Sand and medium to fine gravel (weathered rock)	
		TW-1						Brown and grey hard CLAY with Silt and medium to fine gravel (weathered rock)	
Sand/Gravel									
N/A	40						120		
Bottom of Screen 42.20'									
Screen Size:								Orange unconsolidated Till	
Bottom of Boring 45' .1"							48		
								BORING COMPLETED AT ± 45 FEET	
	50								
	60								
	70								
	80								

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted. Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

SESI CONSULTING ENGINEERS	PROJECT NAME:	Ossining, NY	MONITORING WELL NO.	**TW-2**
	PROJECT LOCATION:	130-140 Croton Ave, Ossining, NY	JOB NO.	12060
	METHOD:	Direct Push	GROUND ELEVATION:	

BORING BY: Aarco	DATE STARTED 09/02/21		DEVELOPMENT PERIOD	N/A	INSIDE CASING DIAMETER (in)	2
INSPECTOR: JRN	DATE COMPLETED 09/02/21		DEVELOPMENT METHOD	N/A	BOREHOLE DIAMETER (in)	8
NJ DEP PERMIT NO.:	DATE DEVELOPED N/A		DEVELOPMENT RATE	# gpm	INITIAL WATER LEVEL (ft):	33.48

WELL CONSTRUCTION	DEPTH (ft)	Sample	Blows on Spoon 0/6	6/12	12/18	18/24	REC (in)	SOIL DESCRIPTION AND STRATIFICATION	P.I.D.
	0							Asphalt	
Depth (feet below grade)									
Top of Stickpup 3'								Brown Grey SILT, and medium to fine Sand, some medium to fine Gravel (weathered rock)	
Ground Surface 0									
Casing Type: N/A									
Top of Riser									
	10								
Well Cap:gripper								Brown SILT, some medium to fine Sand, some medium to fine Gravel (weathered rock)	
Top of Seal #								Dark Brown coarse to fine GRAVEL and Silt	
N/A N/A									
Top of Sand Pack # Well Key:									
N/A N/A	20								
Riser Pipe:								Dark Brown Hard CLAY with Silt and medium to fine gravel (weathered rock)	
2" PVC									
	30								
								Dark Brown Hard SILT with clay and medium to fine gravel (weathered rock)	
Sand/Gravel									
Top of Screen 39.46' N/A	40								
		TW-2							
Screen Size:									
Bottom of Screen 49.46' .1"									
Bottom of Boring 50'	50								
								BORING COMPLETED AT ± 50 FEET	
	60								
	70								
	80								

Remarks:

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

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SESI CONSULTING ENGINEERS	PROJECT NAME:	Ossining, NY	MONITORING WELL NO.	**TW-3**
	PROJECT LOCATION:	130-140 Croton Ave, Ossining, NY	JOB NO.	12060
	METHOD:	Direct Push	GROUND ELEVATION:	

BORING BY: Coastal	DATE STARTED 08/13/21		DEVELOPMENT PERIOD	N/A	INSIDE CASING DIAMETER (in)	1
INSPECTOR: DMA	DATE COMPLETED 08/13/21		DEVELOPMENT METHOD	N/A	BOREHOLE DIAMETER (in)	1
NJ DEP PERMIT NO.:	DATE DEVELOPED N/A		DEVELOPMENT RATE	# gpm	INITIAL WATER LEVEL (ft):	N/A

WELL CONSTRUCTION

Depth (feet below grade)

Top of Stickpup 3'

Ground Surface 0

Top of Riser 0

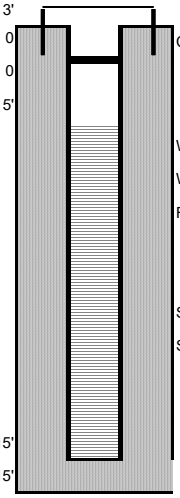
Top of Screen 5'

Top of Seal N/A

Top of Sand Pack N/A

Bottom of Screen 15'

Bottom of Boring 15'



Casing Type: N/A

Well Cap: N/A

Well Key: N/A

Riser Pipe: 1" PVC

Sand/Gravel: N/A

Screen Size: .1"

Remarks:

DEPTH (ft)	Sample	Blows on Spoon 0/6	6/12	12/18	18/24	REC (in)	SOIL DESCRIPTION AND STRATIFICATION	P.I.D.
0							No water found after 5 hours	
5								
10								
15								
20								
25								
30								
35								
40								

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

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FIGURE #

Appendix D:

Laboratory Deliverable Reports

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report



Technical Report for

SESI Consulting Engineers

Ossining Investigation, 136-140 Croton Avnue, Ossining, NY 11498

SGS Job Number: JD29923

Sampling Date: 08/13/21

Report to:

SESI Consulting Engineers
12 Maple Avenue Building A
Pine Brook, NJ 07058
FD@sesi.org; monica.norton@sesi.org

ATTN: Fuad Dahan

Total number of pages in report: **1685**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Mike Earp
General Manager

Client Service contact: Kelly Ramos 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Please share your ideas about how we can serve you better at:
EHS.US.CustomerCare@sgs.com

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SGS North America Inc.

Sample Summary

SESI Consulting Engineers

Job No: JD29923

Ossining Investigation, 136-140 Croton Avnue, Ossining, NY
Project No: 11498

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies: Organics ND = Not detected above the MDL							
JD29923-1	08/13/21	10:15	DA	08/14/21	SO	Soil	SB-1 (6-6.5)
JD29923-2	08/13/21	11:00	DA	08/14/21	SO	Soil	SB-2 (4.5-5.0)
JD29923-3	08/13/21	14:00	DA	08/14/21	SO	Soil	SB-3 (6-6.5)
JD29923-4	08/13/21	14:15	DA	08/14/21	SO	Soil	SB-5 (6-6.5)
JD29923-5	08/13/21	14:30	DA	08/14/21	SO	Soil	SB-6 (9.5-10.0)
JD29923-6	08/13/21	14:40	DA	08/14/21	SO	Soil	SB-8 (9.5-10.0)
JD29923-7	08/13/21	14:50	DA	08/14/21	SO	Soil	SB-9 (7.5-8.0)
JD29923-8	08/13/21	15:00	DA	08/14/21	SO	Soil	SB-10 (7.5-8.0)
JD29923-9	08/13/21	15:00	DA	08/14/21	AQ	Trip Blank Soil	TB

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	SESI Consulting Engineers	**Job No:**	JD29923
Site:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY	**Report Date**	8/23/2021 11:09:01 A

On 08/14/2021, 8 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 4.1 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD29923 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** V4D4985

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD29818-21MS, JD29818-24DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JD29923-9 for Cyclohexane: Associated CCV outside of control limits low.
- JD29923-9 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits low.
- JD29923-9 for Bromomethane: Associated CCV outside of control limits low.

Matrix: SO **Batch ID:** V1C7855

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD29908-2MS, JD29908-4DUP were used as the QC samples indicated.
- JD29923-6 for Dichlorodifluoromethane: Associated CCV outside of control limits low.
- JD29923-4 for Dichlorodifluoromethane: Associated CCV outside of control limits low.
- JD29923-3 for Dichlorodifluoromethane: Associated CCV outside of control limits low.
- JD29923-2 for Dichlorodifluoromethane: Associated CCV outside of control limits low.
- JD29923-5 for Dichlorodifluoromethane: Associated CCV outside of control limits low.
- JD29923-1 for Dichlorodifluoromethane: Associated CCV outside of control limits low.

Matrix: SO **Batch ID:** V1C7856

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD30019-1MS, JD30019-2DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JD29923-7 for trans-1,3-Dichloropropene: Associated CCV outside of control limits high, sample was ND.
- JD29923-7 for Methyl Tert Butyl Ether: Associated CCV outside of control limits high, sample was ND.
- JD29923-7 for 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.

Matrix: SO **Batch ID:** V3C7462

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD30038-1MS, JD30038-2DUP, JD30038-1MS were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for 2-Hexanone, 4-Methyl-2-pentanone(MIBK) are outside control limits. Outside control limits due to matrix interference.
- JD29923-8 for Dichlorodifluoromethane: Associated CCV outside of control limits low.

MS Volatiles By Method SW846 8260D

Matrix: SO **Batch ID:** V3C7462

- JD29923-8 for Bromomethane: Associated CCV outside of control limits low.

MS Semi-volatiles By Method SW846 8270E

Matrix: SO **Batch ID:** OP34922

- All samples were extracted within the recommended method holding time.
- Sample(s) JD29923-1MS, JD29923-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JD29923-4 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD29923-4 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD29923-5 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD29923-5 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD29923-1 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD29923-8 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD29923-6 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD29923-6 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD29923-7 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD29923-2 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD29923-7 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD29923-3 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD29923-8 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD29923-3 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD29923-2 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD29923-1 for Atrazine: Associated CCV outside of control limits high, sample was ND.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: SO **Batch ID:** OP34925

- All samples were extracted within the recommended method holding time.
- Sample(s) JD29923-1MS, JD29923-1MSD, OP34925-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JD29923-3 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD29923-2 for 4,4'-DDE: More than 40 % RPD for detected concentrations between the two GC columns.
- JD29923-2 for Heptachlor epoxide: More than 40 % RPD for detected concentrations between the two GC columns.
- JD29923-2 for gamma-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD29923-2 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.

GC/LC Semi-volatiles By Method SW846 8082A

Matrix: SO **Batch ID:** OP34926

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD29923-2MS, JD29923-2MSD, OP34926-MSMSD were used as the QC samples indicated.

Metals Analysis By Method SW846 6010D

Matrix: SO **Batch ID:** MP28126

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD29938-1MS, JD29938-1MSD, JD29938-1SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Aluminum, Calcium, Manganese, Antimony, Copper are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Aluminum, Antimony, Manganese, Lead are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Recovery(s) for Barium, Iron, Zinc are outside control limits. Needs post spike for SB on dilution
- RPD(s) for MSD for Barium, Iron, Lead, Zinc are outside control limits for sample MP28126-S2. High rpd due to possible sample nonhomogeneity.
- RPD(s) for Serial Dilution for Cadmium, Selenium, Silver, Zinc are outside control limits for sample MP28126-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- JD29923-2 for Cobalt: Elevated detection limit due to dilution required for high interfering element.
- JD29923-2 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD29923-2 for Beryllium: Elevated detection limit due to dilution required for high interfering element.
- JD29923-5 for Thallium: Elevated detection limit due to dilution required for high interfering element.
- JD29923-3 for Thallium: Elevated detection limit due to dilution required for high interfering element.
- JD29923-2 for Silver: Elevated detection limit due to dilution required for high interfering element.
- JD29923-7 for Thallium: Elevated detection limit due to dilution required for high interfering element.
- JD29923-7 for Silver: Elevated detection limit due to dilution required for high interfering element.
- JD29923-7 for Selenium: Elevated detection limit due to dilution required for high interfering element.
- JD29923-7 for Lead: Elevated detection limit due to dilution required for high interfering element.
- JD29923-7 for Copper: Elevated detection limit due to dilution required for high interfering element.
- JD29923-7 for Cobalt: Elevated detection limit due to dilution required for high interfering element.
- JD29923-7 for Cadmium: Elevated detection limit due to dilution required for high interfering element.
- JD29923-7 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD29923-6 for Thallium: Elevated detection limit due to dilution required for high interfering element.
- JD29923-2 for Copper: Elevated detection limit due to dilution required for high interfering element.
- JD29923-6 for Selenium: Elevated detection limit due to dilution required for high interfering element.
- JD29923-7 for Antimony: Elevated detection limit due to dilution required for high interfering element.
- JD29923-5 for Antimony: Elevated detection limit due to dilution required for high interfering element.
- JD29923-5 for Beryllium: Elevated detection limit due to dilution required for high interfering element.
- JD29923-7 for Beryllium: Elevated detection limit due to dilution required for high interfering element.
- JD29923-5 for Silver: Elevated detection limit due to dilution required for high interfering element.
- JD29923-6 for Lead: Elevated detection limit due to dilution required for high interfering element.
- JD29923-6 for Antimony: Elevated detection limit due to dilution required for high interfering element.
- JD29923-6 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD29923-6 for Beryllium: Elevated detection limit due to dilution required for high interfering element.
- JD29923-6 for Copper: Elevated detection limit due to dilution required for high interfering element.
- JD29923-6 for Cobalt: Elevated detection limit due to dilution required for high interfering element.
- JD29923-6 for Cadmium: Elevated detection limit due to dilution required for high interfering element.
- JD29923-5 for Cobalt: Elevated detection limit due to dilution required for high interfering element.
- JD29923-6 for Silver: Elevated detection limit due to dilution required for high interfering element.

Metals Analysis By Method SW846 6010D

Matrix: SO **Batch ID:** MP28126

- JD29923-4 for Copper: Elevated detection limit due to dilution required for high interfering element.
- JD29923-2 for Lead: Elevated detection limit due to dilution required for high interfering element.
- JD29923-2 for Selenium: Elevated detection limit due to dilution required for high interfering element.
- JD29923-2 for Thallium: Elevated detection limit due to dilution required for high interfering element.
- JD29923-3 for Beryllium: Elevated detection limit due to dilution required for high interfering element.
- JD29923-1 for Cobalt: Elevated detection limit due to dilution required for high interfering element.
- JD29923-3 for Cobalt: Elevated detection limit due to dilution required for high interfering element.
- JD29923-3 for Silver: Elevated detection limit due to dilution required for high interfering element.
- JD29923-4 for Antimony: Elevated detection limit due to dilution required for high interfering element.
- JD29923-4 for Beryllium: Elevated detection limit due to dilution required for high interfering element.
- JD29923-4 for Thallium: Elevated detection limit due to dilution required for high interfering element.
- JD29923-4 for Cobalt: Elevated detection limit due to dilution required for high interfering element.
- MP28126-SD1 for Zinc: Serial dilution indicates possible matrix interference.
- JD29923-4 for Lead: Elevated detection limit due to dilution required for high interfering element.
- JD29923-4 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD29923-1 for Silver: Elevated detection limit due to dilution required for high interfering element.
- JD29923-1 for Beryllium: Elevated detection limit due to dilution required for high interfering element.
- JD29923-1 for Antimony: Elevated detection limit due to dilution required for high interfering element.
- JD29923-4 for Cadmium: Elevated detection limit due to dilution required for high interfering element.
- JD29923-4 for Silver: Elevated detection limit due to dilution required for high interfering element.
- JD29923-4 for Selenium: Elevated detection limit due to dilution required for high interfering element.
- JD29923-2 for Antimony: Elevated detection limit due to dilution required for high interfering element.
- JD29923-1 for Thallium: Elevated detection limit due to dilution required for high interfering element.
- JD29923-3 for Antimony: Elevated detection limit due to dilution required for high interfering element.

Metals Analysis By Method SW846 7471B

Matrix: SO **Batch ID:** MP28157

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD29985-13MS, JD29985-13MSD were used as the QC samples for metals.
- Matrix Spike Duplicate Recovery(s) for Mercury are outside control limits. Probable cause due to matrix interference.

General Chemistry By Method SM2540 G 18TH ED MOD

Matrix: SO **Batch ID:** GN20901

- Sample(s) JD29971-1DUP were used as the QC samples for Solids, Percent.

General Chemistry By Method SW846 9012B/LACHAT

Matrix: SO **Batch ID:** GP35403

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD29923-1DUP, JD29923-1MS were used as the QC samples for Cyanide.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD29923
Account: SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY
Collected: 08/13/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD29923-1	**SB-1 (6-6.5)**					
Aluminum		11700	55		mg/kg	SW846 6010D
Barium		141	22		mg/kg	SW846 6010D
Beryllium [a]		0.56	0.44		mg/kg	SW846 6010D
Calcium		10200	550		mg/kg	SW846 6010D
Chromium		20.1	1.1		mg/kg	SW846 6010D
Copper		20.1	2.7		mg/kg	SW846 6010D
Iron		20000	55		mg/kg	SW846 6010D
Lead		6.9	2.2		mg/kg	SW846 6010D
Magnesium		7380	550		mg/kg	SW846 6010D
Manganese		350	1.6		mg/kg	SW846 6010D
Nickel		14.2	4.4		mg/kg	SW846 6010D
Potassium		5410	1100		mg/kg	SW846 6010D
Silver [a]		1.1	1.1		mg/kg	SW846 6010D
Vanadium		28.6	5.5		mg/kg	SW846 6010D
Zinc		45.0	5.5		mg/kg	SW846 6010D
JD29923-2	**SB-2 (4.5-5.0)**					
Acetone		7.1 J	13	5.5	ug/kg	SW846 8260D
alpha-Chlordane [b]		1.1	0.75	0.61	ug/kg	SW846 8081B
gamma-Chlordane [b]		0.58 J	0.75	0.34	ug/kg	SW846 8081B
4,4'-DDE [b]		1.1	0.75	0.66	ug/kg	SW846 8081B
4,4'-DDT		2.1	0.75	0.67	ug/kg	SW846 8081B
Endosulfan-I		0.83	0.75	0.43	ug/kg	SW846 8081B
Heptachlor epoxide [b]		0.79	0.75	0.53	ug/kg	SW846 8081B
Aluminum		13700	56		mg/kg	SW846 6010D
Barium		136	22		mg/kg	SW846 6010D
Beryllium [a]		0.70	0.44		mg/kg	SW846 6010D
Calcium		6800	560		mg/kg	SW846 6010D
Chromium		23.5	1.1		mg/kg	SW846 6010D
Copper [a]		16.7	5.6		mg/kg	SW846 6010D
Iron		24800	110		mg/kg	SW846 6010D
Lead [a]		11.0	4.4		mg/kg	SW846 6010D
Magnesium		7110	560		mg/kg	SW846 6010D
Manganese		343	1.7		mg/kg	SW846 6010D
Nickel		17.6	4.4		mg/kg	SW846 6010D
Potassium		5460	1100		mg/kg	SW846 6010D
Silver [a]		1.1	1.1		mg/kg	SW846 6010D
Vanadium		33.3	5.6		mg/kg	SW846 6010D
Zinc		53.8	5.6		mg/kg	SW846 6010D

Summary of Hits

Job Number: JD29923
Account: SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY
Collected: 08/13/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD29923-3	**SB-3 (6-6.5)**					
Acetone		6.1 J	9.1	3.8	ug/kg	SW846 8260D
Benzo(a)anthracene		11.3 J	36	10	ug/kg	SW846 8270E
Pyrene		17.7 J	36	12	ug/kg	SW846 8270E
alpha-Chlordane [b]		1.5	0.69	0.55	ug/kg	SW846 8081B
gamma-Chlordane		1.1	0.69	0.31	ug/kg	SW846 8081B
Aluminum		12100	57		mg/kg	SW846 6010D
Barium		120	23		mg/kg	SW846 6010D
Beryllium [a]		0.60	0.46		mg/kg	SW846 6010D
Calcium		9240	570		mg/kg	SW846 6010D
Chromium		28.5	1.1		mg/kg	SW846 6010D
Copper		15.3	2.9		mg/kg	SW846 6010D
Iron		21400	57		mg/kg	SW846 6010D
Lead		11.7	2.3		mg/kg	SW846 6010D
Magnesium		8270	570		mg/kg	SW846 6010D
Manganese		281	1.7		mg/kg	SW846 6010D
Nickel		16.8	4.6		mg/kg	SW846 6010D
Potassium		5080	1100		mg/kg	SW846 6010D
Vanadium		29.4	5.7		mg/kg	SW846 6010D
Zinc		52.6	5.7		mg/kg	SW846 6010D
JD29923-4	**SB-5 (6-6.5)**					
Acetone		65.1	11	4.7	ug/kg	SW846 8260D
2-Butanone (MEK)		9.7 J	11	2.8	ug/kg	SW846 8260D
Carbon disulfide		0.66 J	2.3	0.61	ug/kg	SW846 8260D
Aluminum		15800	55		mg/kg	SW846 6010D
Barium		170	22		mg/kg	SW846 6010D
Beryllium [a]		0.82	0.44		mg/kg	SW846 6010D
Calcium		9000	550		mg/kg	SW846 6010D
Chromium		27.0	1.1		mg/kg	SW846 6010D
Cobalt [a]		11.3	11		mg/kg	SW846 6010D
Copper [a]		18.8	5.5		mg/kg	SW846 6010D
Iron		27000	110		mg/kg	SW846 6010D
Lead [a]		7.7	4.4		mg/kg	SW846 6010D
Magnesium		9260	550		mg/kg	SW846 6010D
Manganese		284	1.6		mg/kg	SW846 6010D
Nickel		20.4	4.4		mg/kg	SW846 6010D
Potassium		6820	1100		mg/kg	SW846 6010D
Silver [a]		1.4	1.1		mg/kg	SW846 6010D
Vanadium		36.2	5.5		mg/kg	SW846 6010D
Zinc		56.1	5.5		mg/kg	SW846 6010D

Summary of Hits

Job Number: JD29923
Account: SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY
Collected: 08/13/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD29923-5	**SB-6 (9.5-10.0)**					
Acetone		5.3 J	9.2	3.8	ug/kg	SW846 8260D
Carbon disulfide		0.52 J	1.8	0.49	ug/kg	SW846 8260D
Aluminum		10300	54		mg/kg	SW846 6010D
Barium		107	22		mg/kg	SW846 6010D
Calcium		41300	2700		mg/kg	SW846 6010D
Chromium		17.3	1.1		mg/kg	SW846 6010D
Copper		12.2	2.7		mg/kg	SW846 6010D
Iron		17700	54		mg/kg	SW846 6010D
Lead		5.6	2.2		mg/kg	SW846 6010D
Magnesium		24000	540		mg/kg	SW846 6010D
Manganese		275	1.6		mg/kg	SW846 6010D
Nickel		13.6	4.3		mg/kg	SW846 6010D
Potassium		4230	1100		mg/kg	SW846 6010D
Vanadium		26.4	5.4		mg/kg	SW846 6010D
Zinc		37.2	5.4		mg/kg	SW846 6010D
JD29923-6	**SB-8 (9.5-10.0)**					
Aluminum		17000	56		mg/kg	SW846 6010D
Barium		174	23		mg/kg	SW846 6010D
Beryllium [a]		0.87	0.45		mg/kg	SW846 6010D
Calcium		11300	560		mg/kg	SW846 6010D
Chromium		27.6	1.1		mg/kg	SW846 6010D
Cobalt [a]		11.8	11		mg/kg	SW846 6010D
Copper [a]		20.5	5.6		mg/kg	SW846 6010D
Iron		28000	110		mg/kg	SW846 6010D
Lead [a]		8.4	4.5		mg/kg	SW846 6010D
Magnesium		9150	560		mg/kg	SW846 6010D
Manganese		409	1.7		mg/kg	SW846 6010D
Nickel		21.6	4.5		mg/kg	SW846 6010D
Potassium		7170	1100		mg/kg	SW846 6010D
Silver [a]		1.4	1.1		mg/kg	SW846 6010D
Vanadium		37.9	5.6		mg/kg	SW846 6010D
Zinc		58.9	5.6		mg/kg	SW846 6010D
JD29923-7	**SB-9 (7.5-8.0)**					
Total TIC, Semi-Volatile		230 J			ug/kg	
Aluminum		16200	58		mg/kg	SW846 6010D
Barium		168	23		mg/kg	SW846 6010D
Beryllium [a]		0.85	0.46		mg/kg	SW846 6010D
Calcium		9530	580		mg/kg	SW846 6010D
Chromium		27.1	1.2		mg/kg	SW846 6010D

Summary of Hits

Job Number: JD29923
Account: SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY
Collected: 08/13/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Copper [a]		20.3	5.8		mg/kg	SW846 6010D
Iron		28000	120		mg/kg	SW846 6010D
Lead [a]		7.6	4.6		mg/kg	SW846 6010D
Magnesium		9050	580		mg/kg	SW846 6010D
Manganese		314	1.7		mg/kg	SW846 6010D
Nickel		21.0	4.6		mg/kg	SW846 6010D
Potassium		7180	1200		mg/kg	SW846 6010D
Silver [a]		1.5	1.2		mg/kg	SW846 6010D
Vanadium		36.8	5.8		mg/kg	SW846 6010D
Zinc		58.6	5.8		mg/kg	SW846 6010D
JD29923-8	**SB-10 (7.5-8.0)**					
Aluminum		7740	58		mg/kg	SW846 6010D
Barium		103	23		mg/kg	SW846 6010D
Beryllium		0.36	0.23		mg/kg	SW846 6010D
Calcium		5340	580		mg/kg	SW846 6010D
Chromium		15.0	1.2		mg/kg	SW846 6010D
Cobalt		6.1	5.8		mg/kg	SW846 6010D
Copper		10.9	2.9		mg/kg	SW846 6010D
Iron		15000	58		mg/kg	SW846 6010D
Lead		4.4	2.3		mg/kg	SW846 6010D
Magnesium		4710	580		mg/kg	SW846 6010D
Manganese		545	1.7		mg/kg	SW846 6010D
Nickel		11.2	4.6		mg/kg	SW846 6010D
Potassium		3300	1200		mg/kg	SW846 6010D
Silver		1.0	0.58		mg/kg	SW846 6010D
Vanadium		20.2	5.8		mg/kg	SW846 6010D
Zinc		32.8	5.8		mg/kg	SW846 6010D
JD29923-9	**TB**					
Total TIC, Volatile		6.7 J			ug/l	

(a) Elevated detection limit due to dilution required for high interfering element.
(b) More than 40 % RPD for detected concentrations between the two GC columns.

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-1 (6-6.5)		
Lab Sample ID:	JD29923-1	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	93.6
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180246.D	1	08/18/21 19:46	PS	08/14/21 17:00	n/a	V1C7855
Run #2							

	Initial Weight
Run #1	4.1 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	13	5.4	ug/kg	
71-43-2	Benzene	ND	0.65	0.59	ug/kg	
74-97-5	Bromochloromethane	ND	6.5	0.73	ug/kg	
75-27-4	Bromodichloromethane	ND	2.6	0.56	ug/kg	
75-25-2	Bromoform	ND	6.5	1.8	ug/kg	
74-83-9	Bromomethane	ND	6.5	1.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	3.2	ug/kg	
75-15-0	Carbon disulfide	ND	2.6	0.70	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.6	0.81	ug/kg	
108-90-7	Chlorobenzene	ND	2.6	0.60	ug/kg	
75-00-3	Chloroethane	ND	6.5	0.77	ug/kg	
67-66-3	Chloroform	ND	2.6	0.68	ug/kg	
74-87-3	Chloromethane	ND	6.5	2.6	ug/kg	
110-82-7	Cyclohexane	ND	2.6	0.86	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.6	0.90	ug/kg	
124-48-1	Dibromochloromethane	ND	2.6	0.73	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.55	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.3	0.71	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.3	0.65	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.3	0.64	ug/kg	
75-71-8	Dichlorodifluoromethane [a]	ND	6.5	0.95	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.3	0.64	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.61	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.3	0.85	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.3	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.3	0.80	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.6	0.62	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.6	0.62	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.6	0.60	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.59	ug/kg	
76-13-1	Freon 113	ND	6.5	3.5	ug/kg	
591-78-6	2-Hexanone	ND	6.5	2.8	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-1 (6-6.5)		
Lab Sample ID:	JD29923-1	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	93.6
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.6	1.9	ug/kg	
79-20-9	Methyl Acetate	ND	6.5	1.8	ug/kg	
108-87-2	Methylcyclohexane	ND	2.6	1.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.61	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.5	3.0	ug/kg	
75-09-2	Methylene chloride	ND	6.5	3.4	ug/kg	
100-42-5	Styrene	ND	2.6	0.52	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.6	0.78	ug/kg	
127-18-4	Tetrachloroethene	ND	2.6	0.76	ug/kg	
108-88-3	Toluene	ND	1.3	0.68	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.5	3.3	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.5	3.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.6	0.63	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.6	0.72	ug/kg	
79-01-6	Trichloroethene	ND	1.3	0.99	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.5	0.89	ug/kg	
75-01-4	Vinyl chloride	ND	2.6	0.63	ug/kg	
	m,p-Xylene	ND	1.3	1.2	ug/kg	
95-47-6	o-Xylene	ND	1.3	0.60	ug/kg	
1330-20-7	Xylene (total)	ND	1.3	0.60	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		72-130%
17060-07-0	1,2-Dichloroethane-D4	112%		75-131%
2037-26-5	Toluene-D8	104%		81-121%
460-00-4	4-Bromofluorobenzene	98%		60-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-1 (6-6.5)		
Lab Sample ID:	JD29923-1	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	93.6
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F201236.D	1	08/18/21 18:46	KLS	08/18/21 09:10	OP34922	EF8807
Run #2							

	Initial Weight	Final Volume
Run #1	11.3 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	190	47	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	470	58	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	470	81	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	470	170	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	470	360	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	470	100	ug/kg	
95-48-7	2-Methylphenol	ND	190	60	ug/kg	
	3&4-Methylphenol	ND	190	78	ug/kg	
88-75-5	2-Nitrophenol	ND	470	62	ug/kg	
100-02-7	4-Nitrophenol	ND	950	250	ug/kg	
87-86-5	Pentachlorophenol	ND	380	89	ug/kg	
108-95-2	Phenol	ND	190	49	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	470	63	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	470	71	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	470	56	ug/kg	
83-32-9	Acenaphthene	ND	95	33	ug/kg	
208-96-8	Acenaphthylene	ND	95	48	ug/kg	
98-86-2	Acetophenone	ND	470	20	ug/kg	
120-12-7	Anthracene	ND	95	58	ug/kg	
1912-24-9	Atrazine [a]	ND	190	40	ug/kg	
56-55-3	Benzo(a)anthracene	ND	95	27	ug/kg	
50-32-8	Benzo(a)pyrene	ND	95	43	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	95	42	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	95	47	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	95	44	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	190	36	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	190	23	ug/kg	
92-52-4	1,1'-Biphenyl	ND	190	13	ug/kg	
100-52-7	Benzaldehyde	ND	470	23	ug/kg	
91-58-7	2-Chloronaphthalene	ND	190	23	ug/kg	
106-47-8	4-Chloroaniline	ND	470	34	ug/kg	
86-74-8	Carbazole	ND	190	14	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-1 (6-6.5)
Lab Sample ID: JD29923-1 **Date Sampled:** 08/13/21
Matrix: SO - Soil **Date Received:** 08/14/21
Method: SW846 8270E SW846 3546 **Percent Solids:** 93.6
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	190	37	ug/kg	
218-01-9	Chrysene	ND	95	30	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	190	20	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	190	41	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	190	34	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	190	31	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	95	29	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	95	47	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	190	79	ug/kg	
123-91-1	1,4-Dioxane	ND	95	62	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	95	42	ug/kg	
132-64-9	Dibenzofuran	ND	190	38	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	190	15	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	190	24	ug/kg	
84-66-2	Diethyl phthalate	ND	190	20	ug/kg	
131-11-3	Dimethyl phthalate	ND	190	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	190	22	ug/kg	
206-44-0	Fluoranthene	ND	95	42	ug/kg	
86-73-7	Fluorene	ND	95	43	ug/kg	
118-74-1	Hexachlorobenzene	ND	190	24	ug/kg	
87-68-3	Hexachlorobutadiene	ND	95	38	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	950	38	ug/kg	
67-72-1	Hexachloroethane	ND	470	47	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	95	44	ug/kg	
78-59-1	Isophorone	ND	190	20	ug/kg	
91-57-6	2-Methylnaphthalene	ND	95	21	ug/kg	
88-74-4	2-Nitroaniline	ND	470	22	ug/kg	
99-09-2	3-Nitroaniline	ND	470	24	ug/kg	
100-01-6	4-Nitroaniline	ND	470	24	ug/kg	
91-20-3	Naphthalene	ND	95	27	ug/kg	
98-95-3	Nitrobenzene	ND	190	36	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	190	27	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	470	35	ug/kg	
85-01-8	Phenanthrene	ND	95	32	ug/kg	
129-00-0	Pyrene	ND	95	30	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	470	24	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	58%		7-101%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-1 (6-6.5)		
Lab Sample ID:	JD29923-1	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	93.6
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	55%		12-101%
118-79-6	2,4,6-Tribromophenol	63%		10-127%
4165-60-0	Nitrobenzene-d5	68%		15-114%
321-60-8	2-Fluorobiphenyl	63%		22-104%
1718-51-0	Terphenyl-d14	77%		23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	System artifact/aldol-condensation	3.40	900	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-1 (6-6.5)		
Lab Sample ID:	JD29923-1	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	93.6
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G169081.D	1	08/19/21 18:05	TC	08/19/21 09:30	OP34925	G1G5787
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.68	0.56	ug/kg	
319-84-6	alpha-BHC	ND	0.68	0.56	ug/kg	
319-85-7	beta-BHC	ND	0.68	0.62	ug/kg	
319-86-8	delta-BHC	ND	0.68	0.66	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.68	0.50	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.68	0.55	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.68	0.31	ug/kg	
60-57-1	Dieldrin	ND	0.68	0.47	ug/kg	
72-54-8	4,4'-DDD	ND	0.68	0.63	ug/kg	
72-55-9	4,4'-DDE	ND	0.68	0.60	ug/kg	
50-29-3	4,4'-DDT	ND	0.68	0.61	ug/kg	
72-20-8	Endrin	ND	0.68	0.53	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.68	0.53	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.68	0.39	ug/kg	
959-98-8	Endosulfan-I	ND	0.68	0.39	ug/kg	
33213-65-9	Endosulfan-II	ND	0.68	0.43	ug/kg	
76-44-8	Heptachlor	ND	0.68	0.59	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.68	0.48	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.54	ug/kg	
53494-70-5	Endrin ketone	ND	0.68	0.50	ug/kg	
8001-35-2	Toxaphene	ND	17	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	85%		27-138%
877-09-8	Tetrachloro-m-xylene	92%		27-138%
2051-24-3	Decachlorobiphenyl	86%		10-179%
2051-24-3	Decachlorobiphenyl	92%		10-179%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-1 (6-6.5)		
Lab Sample ID:	JD29923-1	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8082A SW846 3546	**Percent Solids:**	93.6
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RK2836.D	1	08/19/21 17:13	TC	08/19/21 09:30	OP34926	GRK77
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	34	16	ug/kg	
11104-28-2	Aroclor 1221	ND	34	21	ug/kg	
11141-16-5	Aroclor 1232	ND	34	22	ug/kg	
53469-21-9	Aroclor 1242	ND	34	14	ug/kg	
12672-29-6	Aroclor 1248	ND	34	31	ug/kg	
11097-69-1	Aroclor 1254	ND	34	18	ug/kg	
11096-82-5	Aroclor 1260	ND	34	15	ug/kg	
11100-14-4	Aroclor 1268	ND	34	14	ug/kg	
37324-23-5	Aroclor 1262	ND	34	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	99%		24-152%
877-09-8	Tetrachloro-m-xylene	120%		24-152%
2051-24-3	Decachlorobiphenyl	92%		10-172%
2051-24-3	Decachlorobiphenyl	100%		10-172%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-1 (6-6.5)		
Lab Sample ID:	JD29923-1	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
		Percent Solids:	93.6
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	11700	55	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Antimony [a]	< 4.4	4.4	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Arsenic	< 2.2	2.2	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	141	22	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Beryllium [a]	0.56	0.44	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.55	0.55	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Calcium	10200	550	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	20.1	1.1	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cobalt [a]	< 11	11	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper	20.1	2.7	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Iron	20000	55	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	6.9	2.2	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Magnesium	7380	550	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Manganese	350	1.6	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.033	0.033	mg/kg	1	08/19/21	08/19/21	LM	SW846 7471B [1]	SW846 7471B [4]
Nickel	14.2	4.4	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Potassium	5410	1100	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.2	2.2	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver [a]	1.1	1.1	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Thallium [a]	< 2.2	2.2	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Vanadium	28.6	5.5	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	45.0	5.5	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA50998
(2) Instrument QC Batch: MA51003
(3) Prep QC Batch: MP28126
(4) Prep QC Batch: MP28157

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SB-1 (6-6.5)		
Lab Sample ID:	JD29923-1	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
		Percent Solids:	93.6
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.25	0.25	mg/kg	1	08/18/21 19:54	JJ	SW846 9012B/LACHAT
Solids, Percent	93.6		%	1	08/17/21 16:40	BG	SM2540 G 18TH ED MOD

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-2 (4.5-5.0)		
Lab Sample ID:	JD29923-2	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	87.3
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180247.D	1	08/18/21 20:13	PS	08/14/21 17:00	n/a	V1C7855
Run #2							

	Initial Weight
Run #1	4.3 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	7.1	13	5.5	ug/kg	J
71-43-2	Benzene	ND	0.67	0.61	ug/kg	
74-97-5	Bromochloromethane	ND	6.7	0.75	ug/kg	
75-27-4	Bromodichloromethane	ND	2.7	0.57	ug/kg	
75-25-2	Bromoform	ND	6.7	1.8	ug/kg	
74-83-9	Bromomethane	ND	6.7	1.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	3.2	ug/kg	
75-15-0	Carbon disulfide	ND	2.7	0.71	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.7	0.82	ug/kg	
108-90-7	Chlorobenzene	ND	2.7	0.61	ug/kg	
75-00-3	Chloroethane	ND	6.7	0.79	ug/kg	
67-66-3	Chloroform	ND	2.7	0.69	ug/kg	
74-87-3	Chloromethane	ND	6.7	2.6	ug/kg	
110-82-7	Cyclohexane	ND	2.7	0.88	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.7	0.92	ug/kg	
124-48-1	Dibromochloromethane	ND	2.7	0.75	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.56	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.3	0.73	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.3	0.66	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.3	0.66	ug/kg	
75-71-8	Dichlorodifluoromethane [a]	ND	6.7	0.97	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.3	0.66	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.63	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.3	0.87	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.3	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.3	0.81	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.7	0.63	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.7	0.63	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.7	0.61	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.60	ug/kg	
76-13-1	Freon 113	ND	6.7	3.6	ug/kg	
591-78-6	2-Hexanone	ND	6.7	2.8	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-2 (4.5-5.0)		
Lab Sample ID:	JD29923-2	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	87.3
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.7	1.9	ug/kg	
79-20-9	Methyl Acetate	ND	6.7	1.9	ug/kg	
108-87-2	Methylcyclohexane	ND	2.7	1.2	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.62	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.7	3.0	ug/kg	
75-09-2	Methylene chloride	ND	6.7	3.5	ug/kg	
100-42-5	Styrene	ND	2.7	0.54	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.7	0.80	ug/kg	
127-18-4	Tetrachloroethene	ND	2.7	0.77	ug/kg	
108-88-3	Toluene	ND	1.3	0.70	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.7	3.3	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.7	3.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.7	0.64	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.7	0.74	ug/kg	
79-01-6	Trichloroethene	ND	1.3	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.7	0.91	ug/kg	
75-01-4	Vinyl chloride	ND	2.7	0.64	ug/kg	
	m,p-Xylene	ND	1.3	1.2	ug/kg	
95-47-6	o-Xylene	ND	1.3	0.61	ug/kg	
1330-20-7	Xylene (total)	ND	1.3	0.61	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		72-130%
17060-07-0	1,2-Dichloroethane-D4	116%		75-131%
2037-26-5	Toluene-D8	105%		81-121%
460-00-4	4-Bromofluorobenzene	103%		60-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-2 (4.5-5.0)		
Lab Sample ID:	JD29923-2	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	87.3
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F201242.D	1	08/18/21 22:12	KLS	08/18/21 09:10	OP34922	EF8807
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	76	19	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	23	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	33	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	68	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	190	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	190	41	ug/kg	
95-48-7	2-Methylphenol	ND	76	24	ug/kg	
	3&4-Methylphenol	ND	76	31	ug/kg	
88-75-5	2-Nitrophenol	ND	190	25	ug/kg	
100-02-7	4-Nitrophenol	ND	380	100	ug/kg	
87-86-5	Pentachlorophenol	ND	150	36	ug/kg	
108-95-2	Phenol	ND	76	20	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	25	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	29	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	23	ug/kg	
83-32-9	Acenaphthene	ND	38	13	ug/kg	
208-96-8	Acenaphthylene	ND	38	19	ug/kg	
98-86-2	Acetophenone	ND	190	8.2	ug/kg	
120-12-7	Anthracene	ND	38	23	ug/kg	
1912-24-9	Atrazine [a]	ND	76	16	ug/kg	
56-55-3	Benzo(a)anthracene	ND	38	11	ug/kg	
50-32-8	Benzo(a)pyrene	ND	38	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	38	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	38	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	38	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	76	15	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	76	9.3	ug/kg	
92-52-4	1,1'-Biphenyl	ND	76	5.2	ug/kg	
100-52-7	Benzaldehyde	ND	190	9.5	ug/kg	
91-58-7	2-Chloronaphthalene	ND	76	9.1	ug/kg	
106-47-8	4-Chloroaniline	ND	190	14	ug/kg	
86-74-8	Carbazole	ND	76	5.5	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-2 (4.5-5.0)
Lab Sample ID: JD29923-2 **Date Sampled:** 08/13/21
Matrix: SO - Soil **Date Received:** 08/14/21
Method: SW846 8270E SW846 3546 **Percent Solids:** 87.3
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	76	15	ug/kg	
218-01-9	Chrysene	ND	38	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	76	8.2	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	76	16	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	76	14	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	76	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	38	12	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	38	19	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	76	32	ug/kg	
123-91-1	1,4-Dioxane	ND	38	25	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	38	17	ug/kg	
132-64-9	Dibenzofuran	ND	76	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	76	6.2	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	76	9.5	ug/kg	
84-66-2	Diethyl phthalate	ND	76	8.1	ug/kg	
131-11-3	Dimethyl phthalate	ND	76	6.8	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	76	8.9	ug/kg	
206-44-0	Fluoranthene	ND	38	17	ug/kg	
86-73-7	Fluorene	ND	38	18	ug/kg	
118-74-1	Hexachlorobenzene	ND	76	9.7	ug/kg	
87-68-3	Hexachlorobutadiene	ND	38	15	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	380	15	ug/kg	
67-72-1	Hexachloroethane	ND	190	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38	18	ug/kg	
78-59-1	Isophorone	ND	76	8.2	ug/kg	
91-57-6	2-Methylnaphthalene	ND	38	8.6	ug/kg	
88-74-4	2-Nitroaniline	ND	190	9.0	ug/kg	
99-09-2	3-Nitroaniline	ND	190	9.5	ug/kg	
100-01-6	4-Nitroaniline	ND	190	9.9	ug/kg	
91-20-3	Naphthalene	ND	38	11	ug/kg	
98-95-3	Nitrobenzene	ND	76	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	76	11	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	14	ug/kg	
85-01-8	Phenanthrene	ND	38	13	ug/kg	
129-00-0	Pyrene	ND	38	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	9.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		7-101%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-2 (4.5-5.0)		
Lab Sample ID:	JD29923-2	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	87.3
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	44%		12-101%
118-79-6	2,4,6-Tribromophenol	49%		10-127%
4165-60-0	Nitrobenzene-d5	54%		15-114%
321-60-8	2-Fluorobiphenyl	51%		22-104%
1718-51-0	Terphenyl-d14	61%		23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	System artifact/aldol-condensation	3.40	190	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-2 (4.5-5.0)		
Lab Sample ID:	JD29923-2	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	87.3
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G169089.D	1	08/19/21 20:30	TC	08/19/21 09:30	OP34925	G1G5787
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.75	0.62	ug/kg	
319-84-6	alpha-BHC	ND	0.75	0.61	ug/kg	
319-85-7	beta-BHC	ND	0.75	0.68	ug/kg	
319-86-8	delta-BHC	ND	0.75	0.72	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.75	0.56	ug/kg	
5103-71-9	alpha-Chlordane [a]	1.1	0.75	0.61	ug/kg	
5103-74-2	gamma-Chlordane [a]	0.58	0.75	0.34	ug/kg	J
60-57-1	Dieldrin	ND	0.75	0.52	ug/kg	
72-54-8	4,4'-DDD	ND	0.75	0.69	ug/kg	
72-55-9	4,4'-DDE [a]	1.1	0.75	0.66	ug/kg	
50-29-3	4,4'-DDT	2.1	0.75	0.67	ug/kg	
72-20-8	Endrin	ND	0.75	0.59	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.75	0.59	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.75	0.43	ug/kg	
959-98-8	Endosulfan-I	0.83	0.75	0.43	ug/kg	
33213-65-9	Endosulfan-II	ND	0.75	0.47	ug/kg	
76-44-8	Heptachlor	ND	0.75	0.65	ug/kg	
1024-57-3	Heptachlor epoxide [a]	0.79	0.75	0.53	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.60	ug/kg	
53494-70-5	Endrin ketone	ND	0.75	0.54	ug/kg	
8001-35-2	Toxaphene	ND	19	18	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		27-138%
877-09-8	Tetrachloro-m-xylene	82%		27-138%
2051-24-3	Decachlorobiphenyl	53%		10-179%
2051-24-3	Decachlorobiphenyl	71%		10-179%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-2 (4.5-5.0)		
Lab Sample ID:	JD29923-2	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8082A SW846 3546	**Percent Solids:**	87.3
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RK2847.D	1	08/19/21 20:14	TC	08/19/21 09:30	OP34926	GRK77
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	18	ug/kg	
11104-28-2	Aroclor 1221	ND	38	23	ug/kg	
11141-16-5	Aroclor 1232	ND	38	24	ug/kg	
53469-21-9	Aroclor 1242	ND	38	15	ug/kg	
12672-29-6	Aroclor 1248	ND	38	34	ug/kg	
11097-69-1	Aroclor 1254	ND	38	20	ug/kg	
11096-82-5	Aroclor 1260	ND	38	16	ug/kg	
11100-14-4	Aroclor 1268	ND	38	16	ug/kg	
37324-23-5	Aroclor 1262	ND	38	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	75%		24-152%
877-09-8	Tetrachloro-m-xylene	93%		24-152%
2051-24-3	Decachlorobiphenyl	48%		10-172%
2051-24-3	Decachlorobiphenyl	99%		10-172%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-2 (4.5-5.0)		
Lab Sample ID:	JD29923-2	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
		Percent Solids:	87.3
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	13700	56	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Antimony [a]	< 4.4	4.4	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Arsenic [a]	< 4.4	4.4	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	136	22	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Beryllium [a]	0.70	0.44	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Calcium	6800	560	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	23.5	1.1	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cobalt [a]	< 11	11	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper [a]	16.7	5.6	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Iron	24800	110	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead [a]	11.0	4.4	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Magnesium	7110	560	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Manganese	343	1.7	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.033	0.033	mg/kg	1	08/19/21	08/19/21	LM	SW846 7471B [1]	SW846 7471B [4]
Nickel	17.6	4.4	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Potassium	5460	1100	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium [a]	< 4.4	4.4	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver [a]	1.1	1.1	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Thallium [a]	< 2.2	2.2	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Vanadium	33.3	5.6	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	53.8	5.6	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA50998
(2) Instrument QC Batch: MA51003
(3) Prep QC Batch: MP28126
(4) Prep QC Batch: MP28157

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SB-2 (4.5-5.0)		
Lab Sample ID:	JD29923-2	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
		Percent Solids:	87.3
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.26	0.26	mg/kg	1	08/18/21 19:55	JJ	SW846 9012B/LACHAT
Solids, Percent	87.3		%	1	08/17/21 16:40	BG	SM2540 G 18TH ED MOD

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-3 (6-6.5)		
Lab Sample ID:	JD29923-3	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	91.6
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180248.D	1	08/18/21 20:41	PS	08/14/21 17:00	n/a	V1C7855
Run #2							

	Initial Weight
Run #1	6.0 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	6.1	9.1	3.8	ug/kg	J
71-43-2	Benzene	ND	0.45	0.41	ug/kg	
74-97-5	Bromochloromethane	ND	4.5	0.51	ug/kg	
75-27-4	Bromodichloromethane	ND	1.8	0.39	ug/kg	
75-25-2	Bromoform	ND	4.5	1.2	ug/kg	
74-83-9	Bromomethane	ND	4.5	0.70	ug/kg	
78-93-3	2-Butanone (MEK)	ND	9.1	2.2	ug/kg	
75-15-0	Carbon disulfide	ND	1.8	0.49	ug/kg	
56-23-5	Carbon tetrachloride	ND	1.8	0.56	ug/kg	
108-90-7	Chlorobenzene	ND	1.8	0.42	ug/kg	
75-00-3	Chloroethane	ND	4.5	0.54	ug/kg	
67-66-3	Chloroform	ND	1.8	0.47	ug/kg	
74-87-3	Chloromethane	ND	4.5	1.8	ug/kg	
110-82-7	Cyclohexane	ND	1.8	0.60	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.8	0.63	ug/kg	
124-48-1	Dibromochloromethane	ND	1.8	0.51	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.91	0.38	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.91	0.50	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.91	0.45	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.91	0.45	ug/kg	
75-71-8	Dichlorodifluoromethane [a]	ND	4.5	0.66	ug/kg	
75-34-3	1,1-Dichloroethane	ND	0.91	0.45	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.91	0.43	ug/kg	
75-35-4	1,1-Dichloroethene	ND	0.91	0.60	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.91	0.76	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.91	0.56	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1.8	0.43	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.8	0.43	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.8	0.42	ug/kg	
100-41-4	Ethylbenzene	ND	0.91	0.41	ug/kg	
76-13-1	Freon 113	ND	4.5	2.4	ug/kg	
591-78-6	2-Hexanone	ND	4.5	1.9	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-3 (6-6.5)		
Lab Sample ID:	JD29923-3	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	91.6
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.8	1.3	ug/kg	
79-20-9	Methyl Acetate	ND	4.5	1.3	ug/kg	
108-87-2	Methylcyclohexane	ND	1.8	0.80	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.91	0.43	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.5	2.1	ug/kg	
75-09-2	Methylene chloride	ND	4.5	2.4	ug/kg	
100-42-5	Styrene	ND	1.8	0.37	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.8	0.54	ug/kg	
127-18-4	Tetrachloroethene	ND	1.8	0.53	ug/kg	
108-88-3	Toluene	ND	0.91	0.48	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.5	2.3	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.5	2.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1.8	0.44	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.8	0.50	ug/kg	
79-01-6	Trichloroethene	ND	0.91	0.69	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.5	0.62	ug/kg	
75-01-4	Vinyl chloride	ND	1.8	0.44	ug/kg	
	m,p-Xylene	ND	0.91	0.82	ug/kg	
95-47-6	o-Xylene	ND	0.91	0.42	ug/kg	
1330-20-7	Xylene (total)	ND	0.91	0.42	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		72-130%
17060-07-0	1,2-Dichloroethane-D4	113%		75-131%
2037-26-5	Toluene-D8	104%		81-121%
460-00-4	4-Bromofluorobenzene	99%		60-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-3 (6-6.5)		
Lab Sample ID:	JD29923-3	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	91.6
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F201243.D	1	08/18/21 22:39	KLS	08/18/21 09:10	OP34922	EF8807
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	73	18	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	31	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	65	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	180	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	180	39	ug/kg	
95-48-7	2-Methylphenol	ND	73	23	ug/kg	
	3&4-Methylphenol	ND	73	30	ug/kg	
88-75-5	2-Nitrophenol	ND	180	24	ug/kg	
100-02-7	4-Nitrophenol	ND	360	97	ug/kg	
87-86-5	Pentachlorophenol	ND	150	34	ug/kg	
108-95-2	Phenol	ND	73	19	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	24	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	22	ug/kg	
83-32-9	Acenaphthene	ND	36	13	ug/kg	
208-96-8	Acenaphthylene	ND	36	18	ug/kg	
98-86-2	Acetophenone	ND	180	7.8	ug/kg	
120-12-7	Anthracene	ND	36	22	ug/kg	
1912-24-9	Atrazine [a]	ND	73	16	ug/kg	
56-55-3	Benzo(a)anthracene	11.3	36	10	ug/kg	J
50-32-8	Benzo(a)pyrene	ND	36	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	36	16	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	36	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	36	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	73	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	73	8.8	ug/kg	
92-52-4	1,1'-Biphenyl	ND	73	5.0	ug/kg	
100-52-7	Benzaldehyde	ND	180	9.0	ug/kg	
91-58-7	2-Chloronaphthalene	ND	73	8.6	ug/kg	
106-47-8	4-Chloroaniline	ND	180	13	ug/kg	
86-74-8	Carbazole	ND	73	5.3	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-3 (6-6.5)		
Lab Sample ID:	JD29923-3	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	91.6
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	73	14	ug/kg	
218-01-9	Chrysene	ND	36	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	73	7.8	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	73	16	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	73	13	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	73	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	36	11	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	36	18	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	73	30	ug/kg	
123-91-1	1,4-Dioxane	ND	36	24	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	36	16	ug/kg	
132-64-9	Dibenzofuran	ND	73	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	73	5.9	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	73	9.0	ug/kg	
84-66-2	Diethyl phthalate	ND	73	7.7	ug/kg	
131-11-3	Dimethyl phthalate	ND	73	6.5	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	73	8.5	ug/kg	
206-44-0	Fluoranthene	ND	36	16	ug/kg	
86-73-7	Fluorene	ND	36	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	73	9.2	ug/kg	
87-68-3	Hexachlorobutadiene	ND	36	15	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	360	14	ug/kg	
67-72-1	Hexachloroethane	ND	180	18	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	36	17	ug/kg	
78-59-1	Isophorone	ND	73	7.8	ug/kg	
91-57-6	2-Methylnaphthalene	ND	36	8.2	ug/kg	
88-74-4	2-Nitroaniline	ND	180	8.6	ug/kg	
99-09-2	3-Nitroaniline	ND	180	9.1	ug/kg	
100-01-6	4-Nitroaniline	ND	180	9.4	ug/kg	
91-20-3	Naphthalene	ND	36	10	ug/kg	
98-95-3	Nitrobenzene	ND	73	14	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	73	10	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	13	ug/kg	
85-01-8	Phenanthrene	ND	36	12	ug/kg	
129-00-0	Pyrene	17.7	36	12	ug/kg	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	9.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		7-101%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-3 (6-6.5)		
Lab Sample ID:	JD29923-3	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	91.6
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	40%		12-101%
118-79-6	2,4,6-Tribromophenol	41%		10-127%
4165-60-0	Nitrobenzene-d5	51%		15-114%
321-60-8	2-Fluorobiphenyl	48%		22-104%
1718-51-0	Terphenyl-d14	53%		23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	System artifact/aldol-condensation	3.40	360	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-3 (6-6.5)		
Lab Sample ID:	JD29923-3	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	91.6
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G169090.D	1	08/19/21 20:48	TC	08/19/21 09:30	OP34925	G1G5787
Run #2							

	Initial Weight	Final Volume
Run #1	15.9 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.69	0.57	ug/kg	
319-84-6	alpha-BHC	ND	0.69	0.56	ug/kg	
319-85-7	beta-BHC	ND	0.69	0.62	ug/kg	
319-86-8	delta-BHC	ND	0.69	0.66	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.69	0.51	ug/kg	
5103-71-9	alpha-Chlordane [a]	1.5	0.69	0.55	ug/kg	
5103-74-2	gamma-Chlordane	1.1	0.69	0.31	ug/kg	
60-57-1	Dieldrin	ND	0.69	0.47	ug/kg	
72-54-8	4,4'-DDD	ND	0.69	0.63	ug/kg	
72-55-9	4,4'-DDE	ND	0.69	0.60	ug/kg	
50-29-3	4,4'-DDT	ND	0.69	0.61	ug/kg	
72-20-8	Endrin	ND	0.69	0.53	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.69	0.54	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.69	0.39	ug/kg	
959-98-8	Endosulfan-I	ND	0.69	0.40	ug/kg	
33213-65-9	Endosulfan-II	ND	0.69	0.43	ug/kg	
76-44-8	Heptachlor	ND	0.69	0.59	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.69	0.48	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.55	ug/kg	
53494-70-5	Endrin ketone	ND	0.69	0.50	ug/kg	
8001-35-2	Toxaphene	ND	17	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	67%		27-138%
877-09-8	Tetrachloro-m-xylene	69%		27-138%
2051-24-3	Decachlorobiphenyl	42%		10-179%
2051-24-3	Decachlorobiphenyl	56%		10-179%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-3 (6-6.5)		
Lab Sample ID:	JD29923-3	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8082A SW846 3546	**Percent Solids:**	91.6
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RK2846.D	1	08/19/21 19:57	TC	08/19/21 09:30	OP34926	GRK77
Run #2							

	Initial Weight	Final Volume
Run #1	15.9 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	34	16	ug/kg	
11104-28-2	Aroclor 1221	ND	34	21	ug/kg	
11141-16-5	Aroclor 1232	ND	34	22	ug/kg	
53469-21-9	Aroclor 1242	ND	34	14	ug/kg	
12672-29-6	Aroclor 1248	ND	34	31	ug/kg	
11097-69-1	Aroclor 1254	ND	34	18	ug/kg	
11096-82-5	Aroclor 1260	ND	34	15	ug/kg	
11100-14-4	Aroclor 1268	ND	34	14	ug/kg	
37324-23-5	Aroclor 1262	ND	34	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	73%		24-152%
877-09-8	Tetrachloro-m-xylene	90%		24-152%
2051-24-3	Decachlorobiphenyl	48%		10-172%
2051-24-3	Decachlorobiphenyl	82%		10-172%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-3 (6-6.5)		
Lab Sample ID:	JD29923-3	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
		Percent Solids:	91.6
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	12100	57	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Antimony [a]	< 4.6	4.6	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Arsenic	< 2.3	2.3	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	120	23	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Beryllium [a]	0.60	0.46	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.57	0.57	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Calcium	9240	570	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	28.5	1.1	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cobalt [a]	< 11	11	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper	15.3	2.9	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Iron	21400	57	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	11.7	2.3	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Magnesium	8270	570	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Manganese	281	1.7	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.030	0.030	mg/kg	1	08/19/21	08/19/21	LM	SW846 7471B [1]	SW846 7471B [4]
Nickel	16.8	4.6	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Potassium	5080	1100	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.3	2.3	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver [a]	< 1.1	1.1	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Thallium [a]	< 2.3	2.3	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Vanadium	29.4	5.7	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	52.6	5.7	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA50998
(2) Instrument QC Batch: MA51003
(3) Prep QC Batch: MP28126
(4) Prep QC Batch: MP28157

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SB-3 (6-6.5)		
Lab Sample ID:	JD29923-3	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
		Percent Solids:	91.6
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.24	0.24	mg/kg	1	08/18/21 19:57	JJ	SW846 9012B/LACHAT
Solids, Percent	91.6		%	1	08/17/21 16:40	BG	SM2540 G 18TH ED MOD

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID: SB-5 (6-6.5)
Lab Sample ID: JD29923-4 **Date Sampled:** 08/13/21
Matrix: SO - Soil **Date Received:** 08/14/21
Method: SW846 8260D SW846 5035 **Percent Solids:** 91.6
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180249.D	1	08/18/21 21:08	PS	08/14/21 17:00	n/a	V1C7855
Run #2							

	Initial Weight
Run #1	4.8 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	65.1	11	4.7	ug/kg	
71-43-2	Benzene	ND	0.57	0.52	ug/kg	
74-97-5	Bromochloromethane	ND	5.7	0.64	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	0.49	ug/kg	
75-25-2	Bromoform	ND	5.7	1.5	ug/kg	
74-83-9	Bromomethane	ND	5.7	0.87	ug/kg	
78-93-3	2-Butanone (MEK)	9.7	11	2.8	ug/kg	J
75-15-0	Carbon disulfide	0.66	2.3	0.61	ug/kg	J
56-23-5	Carbon tetrachloride	ND	2.3	0.70	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	0.52	ug/kg	
75-00-3	Chloroethane	ND	5.7	0.67	ug/kg	
67-66-3	Chloroform	ND	2.3	0.59	ug/kg	
74-87-3	Chloromethane	ND	5.7	2.2	ug/kg	
110-82-7	Cyclohexane	ND	2.3	0.75	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.3	0.79	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	0.64	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.48	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.62	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.56	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.56	ug/kg	
75-71-8	Dichlorodifluoromethane [a]	ND	5.7	0.83	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.1	0.56	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.53	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.1	0.74	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.96	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.69	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	0.54	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	0.54	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	0.52	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.52	ug/kg	
76-13-1	Freon 113	ND	5.7	3.0	ug/kg	
591-78-6	2-Hexanone	ND	5.7	2.4	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-5 (6-6.5)		
Lab Sample ID:	JD29923-4	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	91.6
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.3	1.6	ug/kg	
79-20-9	Methyl Acetate	ND	5.7	1.6	ug/kg	
108-87-2	Methylcyclohexane	ND	2.3	1.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.53	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.7	2.6	ug/kg	
75-09-2	Methylene chloride	ND	5.7	3.0	ug/kg	
100-42-5	Styrene	ND	2.3	0.46	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	0.68	ug/kg	
127-18-4	Tetrachloroethene	ND	2.3	0.66	ug/kg	
108-88-3	Toluene	ND	1.1	0.60	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.7	2.8	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.7	2.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	0.55	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	0.63	ug/kg	
79-01-6	Trichloroethene	ND	1.1	0.87	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.7	0.78	ug/kg	
75-01-4	Vinyl chloride	ND	2.3	0.55	ug/kg	
	m,p-Xylene	ND	1.1	1.0	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.52	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.52	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		72-130%
17060-07-0	1,2-Dichloroethane-D4	113%		75-131%
2037-26-5	Toluene-D8	104%		81-121%
460-00-4	4-Bromofluorobenzene	100%		60-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-5 (6-6.5)		
Lab Sample ID:	JD29923-4	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	91.6
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F201237.D	1	08/18/21 19:14	KLS	08/18/21 09:10	OP34922	EF8807
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	72	18	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	31	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	64	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	180	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	180	38	ug/kg	
95-48-7	2-Methylphenol	ND	72	23	ug/kg	
	3&4-Methylphenol	ND	72	30	ug/kg	
88-75-5	2-Nitrophenol	ND	180	24	ug/kg	
100-02-7	4-Nitrophenol	ND	360	96	ug/kg	
87-86-5	Pentachlorophenol	ND	140	34	ug/kg	
108-95-2	Phenol	ND	72	19	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	24	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	21	ug/kg	
83-32-9	Acenaphthene	ND	36	12	ug/kg	
208-96-8	Acenaphthylene	ND	36	18	ug/kg	
98-86-2	Acetophenone	ND	180	7.7	ug/kg	
120-12-7	Anthracene	ND	36	22	ug/kg	
1912-24-9	Atrazine [a]	ND	72	15	ug/kg	
56-55-3	Benzo(a)anthracene	ND	36	10	ug/kg	
50-32-8	Benzo(a)pyrene	ND	36	16	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	36	16	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	36	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	36	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	72	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	72	8.8	ug/kg	
92-52-4	1,1'-Biphenyl	ND	72	4.9	ug/kg	
100-52-7	Benzaldehyde	ND	180	8.9	ug/kg	
91-58-7	2-Chloronaphthalene	ND	72	8.5	ug/kg	
106-47-8	4-Chloroaniline	ND	180	13	ug/kg	
86-74-8	Carbazole	ND	72	5.2	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-5 (6-6.5)		
Lab Sample ID:	JD29923-4	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	91.6
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	72	14	ug/kg	
218-01-9	Chrysene	ND	36	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	72	7.7	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	72	15	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	72	13	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	72	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	36	11	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	36	18	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	72	30	ug/kg	
123-91-1	1,4-Dioxane	ND	36	24	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	36	16	ug/kg	
132-64-9	Dibenzofuran	ND	72	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	72	5.9	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	72	8.9	ug/kg	
84-66-2	Diethyl phthalate	ND	72	7.6	ug/kg	
131-11-3	Dimethyl phthalate	ND	72	6.4	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	72	8.4	ug/kg	
206-44-0	Fluoranthene	ND	36	16	ug/kg	
86-73-7	Fluorene	ND	36	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	72	9.1	ug/kg	
87-68-3	Hexachlorobutadiene	ND	36	14	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	360	14	ug/kg	
67-72-1	Hexachloroethane	ND	180	18	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	36	17	ug/kg	
78-59-1	Isophorone	ND	72	7.7	ug/kg	
91-57-6	2-Methylnaphthalene	ND	36	8.1	ug/kg	
88-74-4	2-Nitroaniline	ND	180	8.5	ug/kg	
99-09-2	3-Nitroaniline	ND	180	9.0	ug/kg	
100-01-6	4-Nitroaniline	ND	180	9.3	ug/kg	
91-20-3	Naphthalene	ND	36	10	ug/kg	
98-95-3	Nitrobenzene	ND	72	14	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	72	10	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	13	ug/kg	
85-01-8	Phenanthrene	ND	36	12	ug/kg	
129-00-0	Pyrene	ND	36	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	9.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	65%		7-101%

ND = Not detected MDL = Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-5 (6-6.5)		
Lab Sample ID:	JD29923-4	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	91.6
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	62%		12-101%
118-79-6	2,4,6-Tribromophenol	70%		10-127%
4165-60-0	Nitrobenzene-d5	78%		15-114%
321-60-8	2-Fluorobiphenyl	72%		22-104%
1718-51-0	Terphenyl-d14	85%		23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	System artifact/aldol-condensation	3.40	190	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-5 (6-6.5)		
Lab Sample ID:	JD29923-4	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	91.6
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G169084.D	1	08/19/21 19:00	TC	08/19/21 09:30	OP34925	G1G5787
Run #2							

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.69	0.57	ug/kg	
319-84-6	alpha-BHC	ND	0.69	0.56	ug/kg	
319-85-7	beta-BHC	ND	0.69	0.62	ug/kg	
319-86-8	delta-BHC	ND	0.69	0.66	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.69	0.51	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.69	0.56	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.69	0.31	ug/kg	
60-57-1	Dieldrin	ND	0.69	0.47	ug/kg	
72-54-8	4,4'-DDD	ND	0.69	0.63	ug/kg	
72-55-9	4,4'-DDE	ND	0.69	0.61	ug/kg	
50-29-3	4,4'-DDT	ND	0.69	0.61	ug/kg	
72-20-8	Endrin	ND	0.69	0.54	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.69	0.54	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.69	0.39	ug/kg	
959-98-8	Endosulfan-I	ND	0.69	0.40	ug/kg	
33213-65-9	Endosulfan-II	ND	0.69	0.43	ug/kg	
76-44-8	Heptachlor	ND	0.69	0.60	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.69	0.48	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.55	ug/kg	
53494-70-5	Endrin ketone	ND	0.69	0.50	ug/kg	
8001-35-2	Toxaphene	ND	17	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	95%		27-138%
877-09-8	Tetrachloro-m-xylene	99%		27-138%
2051-24-3	Decachlorobiphenyl	96%		10-179%
2051-24-3	Decachlorobiphenyl	95%		10-179%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-5 (6-6.5)		
Lab Sample ID:	JD29923-4	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8082A SW846 3546	**Percent Solids:**	91.6
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RK2837.D	1	08/19/21 17:29	TC	08/19/21 09:30	OP34926	GRK77
Run #2							

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	16	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	22	ug/kg	
53469-21-9	Aroclor 1242	ND	35	14	ug/kg	
12672-29-6	Aroclor 1248	ND	35	31	ug/kg	
11097-69-1	Aroclor 1254	ND	35	19	ug/kg	
11096-82-5	Aroclor 1260	ND	35	15	ug/kg	
11100-14-4	Aroclor 1268	ND	35	15	ug/kg	
37324-23-5	Aroclor 1262	ND	35	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	102%		24-152%
877-09-8	Tetrachloro-m-xylene	124%		24-152%
2051-24-3	Decachlorobiphenyl	95%		10-172%
2051-24-3	Decachlorobiphenyl	103%		10-172%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-5 (6-6.5)		
Lab Sample ID:	JD29923-4	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
		Percent Solids:	91.6
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	15800	55	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Antimony [a]	< 4.4	4.4	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Arsenic [a]	< 4.4	4.4	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	170	22	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Beryllium [a]	0.82	0.44	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium [a]	< 1.1	1.1	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Calcium	9000	550	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	27.0	1.1	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cobalt [a]	11.3	11	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper [a]	18.8	5.5	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Iron	27000	110	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead [a]	7.7	4.4	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Magnesium	9260	550	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Manganese	284	1.6	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.036	0.036	mg/kg	1	08/19/21	08/19/21	LM	SW846 7471B [1]	SW846 7471B [4]
Nickel	20.4	4.4	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Potassium	6820	1100	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium [a]	< 4.4	4.4	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver [a]	1.4	1.1	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Thallium [a]	< 2.2	2.2	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Vanadium	36.2	5.5	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	56.1	5.5	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA50998
(2) Instrument QC Batch: MA51003
(3) Prep QC Batch: MP28126
(4) Prep QC Batch: MP28157

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SB-5 (6-6.5)		
Lab Sample ID:	JD29923-4	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
		Percent Solids:	91.6
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.25	0.25	mg/kg	1	08/18/21 20:01	JJ	SW846 9012B/LACHAT
Solids, Percent	91.6		%	1	08/17/21 16:40	BG	SM2540 G 18TH ED MOD

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-6 (9.5-10.0)		
Lab Sample ID:	JD29923-5	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	92.4
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180250.D	1	08/18/21 21:35	PS	08/14/21 17:00	n/a	V1C7855
Run #2							

	Initial Weight
Run #1	5.9 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	5.3	9.2	3.8	ug/kg	J
71-43-2	Benzene	ND	0.46	0.42	ug/kg	
74-97-5	Bromochloromethane	ND	4.6	0.51	ug/kg	
75-27-4	Bromodichloromethane	ND	1.8	0.39	ug/kg	
75-25-2	Bromoform	ND	4.6	1.2	ug/kg	
74-83-9	Bromomethane	ND	4.6	0.70	ug/kg	
78-93-3	2-Butanone (MEK)	ND	9.2	2.2	ug/kg	
75-15-0	Carbon disulfide	0.52	1.8	0.49	ug/kg	J
56-23-5	Carbon tetrachloride	ND	1.8	0.57	ug/kg	
108-90-7	Chlorobenzene	ND	1.8	0.42	ug/kg	
75-00-3	Chloroethane	ND	4.6	0.54	ug/kg	
67-66-3	Chloroform	ND	1.8	0.48	ug/kg	
74-87-3	Chloromethane	ND	4.6	1.8	ug/kg	
110-82-7	Cyclohexane	ND	1.8	0.60	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.8	0.64	ug/kg	
124-48-1	Dibromochloromethane	ND	1.8	0.51	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.92	0.39	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.92	0.50	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.92	0.45	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.92	0.45	ug/kg	
75-71-8	Dichlorodifluoromethane [a]	ND	4.6	0.67	ug/kg	
75-34-3	1,1-Dichloroethane	ND	0.92	0.45	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.92	0.43	ug/kg	
75-35-4	1,1-Dichloroethene	ND	0.92	0.60	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.92	0.77	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.92	0.56	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1.8	0.43	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.8	0.44	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.8	0.42	ug/kg	
100-41-4	Ethylbenzene	ND	0.92	0.42	ug/kg	
76-13-1	Freon 113	ND	4.6	2.4	ug/kg	
591-78-6	2-Hexanone	ND	4.6	1.9	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-6 (9.5-10.0)		
Lab Sample ID:	JD29923-5	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	92.4
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.8	1.3	ug/kg	
79-20-9	Methyl Acetate	ND	4.6	1.3	ug/kg	
108-87-2	Methylcyclohexane	ND	1.8	0.80	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.92	0.43	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.6	2.1	ug/kg	
75-09-2	Methylene chloride	ND	4.6	2.4	ug/kg	
100-42-5	Styrene	ND	1.8	0.37	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.8	0.55	ug/kg	
127-18-4	Tetrachloroethene	ND	1.8	0.53	ug/kg	
108-88-3	Toluene	ND	0.92	0.48	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.6	2.3	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.6	2.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1.8	0.44	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.8	0.51	ug/kg	
79-01-6	Trichloroethene	ND	0.92	0.70	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.6	0.63	ug/kg	
75-01-4	Vinyl chloride	ND	1.8	0.44	ug/kg	
	m,p-Xylene	ND	0.92	0.82	ug/kg	
95-47-6	o-Xylene	ND	0.92	0.42	ug/kg	
1330-20-7	Xylene (total)	ND	0.92	0.42	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		72-130%
17060-07-0	1,2-Dichloroethane-D4	114%		75-131%
2037-26-5	Toluene-D8	104%		81-121%
460-00-4	4-Bromofluorobenzene	98%		60-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-6 (9.5-10.0)		
Lab Sample ID:	JD29923-5	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	92.4
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F201238.D	1	08/18/21 19:42	KLS	08/18/21 09:10	OP34922	EF8807
Run #2							

	Initial Weight	Final Volume
Run #1	31.3 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	69	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	29	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	62	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	37	ug/kg	
95-48-7	2-Methylphenol	ND	69	22	ug/kg	
	3&4-Methylphenol	ND	69	28	ug/kg	
88-75-5	2-Nitrophenol	ND	170	23	ug/kg	
100-02-7	4-Nitrophenol	ND	350	92	ug/kg	
87-86-5	Pentachlorophenol	ND	140	32	ug/kg	
108-95-2	Phenol	ND	69	18	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	23	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	26	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	21	ug/kg	
83-32-9	Acenaphthene	ND	35	12	ug/kg	
208-96-8	Acenaphthylene	ND	35	18	ug/kg	
98-86-2	Acetophenone	ND	170	7.4	ug/kg	
120-12-7	Anthracene	ND	35	21	ug/kg	
1912-24-9	Atrazine [a]	ND	69	15	ug/kg	
56-55-3	Benzo(a)anthracene	ND	35	9.8	ug/kg	
50-32-8	Benzo(a)pyrene	ND	35	16	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	35	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	35	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	35	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	69	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	69	8.4	ug/kg	
92-52-4	1,1'-Biphenyl	ND	69	4.7	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.6	ug/kg	
91-58-7	2-Chloronaphthalene	ND	69	8.2	ug/kg	
106-47-8	4-Chloroaniline	ND	170	12	ug/kg	
86-74-8	Carbazole	ND	69	5.0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-6 (9.5-10.0)
Lab Sample ID: JD29923-5 **Date Sampled:** 08/13/21
Matrix: SO - Soil **Date Received:** 08/14/21
Method: SW846 8270E SW846 3546 **Percent Solids:** 92.4
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	69	14	ug/kg	
218-01-9	Chrysene	ND	35	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	69	7.4	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	69	15	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	69	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	69	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	35	11	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	35	17	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	69	29	ug/kg	
123-91-1	1,4-Dioxane	ND	35	23	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	35	15	ug/kg	
132-64-9	Dibenzofuran	ND	69	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	69	5.6	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	69	8.6	ug/kg	
84-66-2	Diethyl phthalate	ND	69	7.4	ug/kg	
131-11-3	Dimethyl phthalate	ND	69	6.2	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	69	8.1	ug/kg	
206-44-0	Fluoranthene	ND	35	15	ug/kg	
86-73-7	Fluorene	ND	35	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	69	8.7	ug/kg	
87-68-3	Hexachlorobutadiene	ND	35	14	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	350	14	ug/kg	
67-72-1	Hexachloroethane	ND	170	17	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	35	16	ug/kg	
78-59-1	Isophorone	ND	69	7.4	ug/kg	
91-57-6	2-Methylnaphthalene	ND	35	7.8	ug/kg	
88-74-4	2-Nitroaniline	ND	170	8.2	ug/kg	
99-09-2	3-Nitroaniline	ND	170	8.6	ug/kg	
100-01-6	4-Nitroaniline	ND	170	9.0	ug/kg	
91-20-3	Naphthalene	ND	35	9.8	ug/kg	
98-95-3	Nitrobenzene	ND	69	13	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	69	10	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	13	ug/kg	
85-01-8	Phenanthrene	ND	35	12	ug/kg	
129-00-0	Pyrene	ND	35	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	8.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	58%		7-101%

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-6 (9.5-10.0)		
Lab Sample ID:	JD29923-5	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	92.4
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	56%		12-101%
118-79-6	2,4,6-Tribromophenol	62%		10-127%
4165-60-0	Nitrobenzene-d5	67%		15-114%
321-60-8	2-Fluorobiphenyl	64%		22-104%
1718-51-0	Terphenyl-d14	78%		23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	System artifact/aldol-condensation	3.40	150	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-6 (9.5-10.0)		
Lab Sample ID:	JD29923-5	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	92.4
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G169085.D	1	08/19/21 19:18	TC	08/19/21 09:30	OP34925	G1G5787
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.70	0.58	ug/kg	
319-84-6	alpha-BHC	ND	0.70	0.57	ug/kg	
319-85-7	beta-BHC	ND	0.70	0.64	ug/kg	
319-86-8	delta-BHC	ND	0.70	0.67	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.70	0.52	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.70	0.57	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.70	0.32	ug/kg	
60-57-1	Dieldrin	ND	0.70	0.48	ug/kg	
72-54-8	4,4'-DDD	ND	0.70	0.65	ug/kg	
72-55-9	4,4'-DDE	ND	0.70	0.62	ug/kg	
50-29-3	4,4'-DDT	ND	0.70	0.62	ug/kg	
72-20-8	Endrin	ND	0.70	0.55	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.70	0.55	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.70	0.40	ug/kg	
959-98-8	Endosulfan-I	ND	0.70	0.40	ug/kg	
33213-65-9	Endosulfan-II	ND	0.70	0.44	ug/kg	
76-44-8	Heptachlor	ND	0.70	0.61	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.70	0.49	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.56	ug/kg	
53494-70-5	Endrin ketone	ND	0.70	0.51	ug/kg	
8001-35-2	Toxaphene	ND	18	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		27-138%
877-09-8	Tetrachloro-m-xylene	84%		27-138%
2051-24-3	Decachlorobiphenyl	84%		10-179%
2051-24-3	Decachlorobiphenyl	81%		10-179%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-6 (9.5-10.0)		
Lab Sample ID:	JD29923-5	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8082A SW846 3546	**Percent Solids:**	92.4
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RK2838.D	1	08/19/21 17:46	TC	08/19/21 09:30	OP34926	GRK77
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	16	ug/kg	
11104-28-2	Aroclor 1221	ND	35	22	ug/kg	
11141-16-5	Aroclor 1232	ND	35	22	ug/kg	
53469-21-9	Aroclor 1242	ND	35	14	ug/kg	
12672-29-6	Aroclor 1248	ND	35	31	ug/kg	
11097-69-1	Aroclor 1254	ND	35	19	ug/kg	
11096-82-5	Aroclor 1260	ND	35	15	ug/kg	
11100-14-4	Aroclor 1268	ND	35	15	ug/kg	
37324-23-5	Aroclor 1262	ND	35	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	95%		24-152%
877-09-8	Tetrachloro-m-xylene	115%		24-152%
2051-24-3	Decachlorobiphenyl	89%		10-172%
2051-24-3	Decachlorobiphenyl	97%		10-172%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-6 (9.5-10.0)
Lab Sample ID: JD29923-5
Matrix: SO - Soil
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Date Sampled: 08/13/21
Date Received: 08/14/21
Percent Solids: 92.4

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	10300	54	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Antimony [a]	< 11	11	mg/kg	5	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Arsenic	< 2.2	2.2	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	107	22	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Beryllium [a]	< 1.1	1.1	mg/kg	5	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.54	0.54	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Calcium	41300	2700	mg/kg	5	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	17.3	1.1	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cobalt [a]	< 27	27	mg/kg	5	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper	12.2	2.7	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Iron	17700	54	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	5.6	2.2	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Magnesium	24000	540	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Manganese	275	1.6	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.034	0.034	mg/kg	1	08/19/21	08/19/21	LM	SW846 7471B [1]	SW846 7471B [4]
Nickel	13.6	4.3	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Potassium	4230	1100	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.2	2.2	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver [a]	< 2.7	2.7	mg/kg	5	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Thallium [a]	< 5.4	5.4	mg/kg	5	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Vanadium	26.4	5.4	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	37.2	5.4	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA50998
(2) Instrument QC Batch: MA51003
(3) Prep QC Batch: MP28126
(4) Prep QC Batch: MP28157

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SB-6 (9.5-10.0)		
Lab Sample ID:	JD29923-5	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
		Percent Solids:	92.4
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.22	0.22	mg/kg	1	08/18/21 20:02	JJ	SW846 9012B/LACHAT
Solids, Percent	92.4		%	1	08/17/21 16:40	BG	SM2540 G 18TH ED MOD

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-8 (9.5-10.0)		
Lab Sample ID:	JD29923-6	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	91.4
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180251.D	1	08/18/21 22:02	PS	08/14/21 17:00	n/a	V1C7855
Run #2							

	Initial Weight
Run #1	4.4 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	5.1	ug/kg	
71-43-2	Benzene	ND	0.62	0.57	ug/kg	
74-97-5	Bromochloromethane	ND	6.2	0.70	ug/kg	
75-27-4	Bromodichloromethane	ND	2.5	0.53	ug/kg	
75-25-2	Bromoform	ND	6.2	1.7	ug/kg	
74-83-9	Bromomethane	ND	6.2	0.95	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	3.0	ug/kg	
75-15-0	Carbon disulfide	ND	2.5	0.67	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.5	0.77	ug/kg	
108-90-7	Chlorobenzene	ND	2.5	0.57	ug/kg	
75-00-3	Chloroethane	ND	6.2	0.73	ug/kg	
67-66-3	Chloroform	ND	2.5	0.65	ug/kg	
74-87-3	Chloromethane	ND	6.2	2.4	ug/kg	
110-82-7	Cyclohexane	ND	2.5	0.82	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.86	ug/kg	
124-48-1	Dibromochloromethane	ND	2.5	0.70	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.52	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.2	0.68	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.2	0.62	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.2	0.61	ug/kg	
75-71-8	Dichlorodifluoromethane [a]	ND	6.2	0.90	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.2	0.62	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.58	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.2	0.81	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.2	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.2	0.76	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.5	0.59	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.59	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.57	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.56	ug/kg	
76-13-1	Freon 113	ND	6.2	3.3	ug/kg	
591-78-6	2-Hexanone	ND	6.2	2.6	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8 (9.5-10.0)		
Lab Sample ID:	JD29923-6	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	91.4
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.5	1.8	ug/kg	
79-20-9	Methyl Acetate	ND	6.2	1.7	ug/kg	
108-87-2	Methylcyclohexane	ND	2.5	1.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.58	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.2	2.8	ug/kg	
75-09-2	Methylene chloride	ND	6.2	3.2	ug/kg	
100-42-5	Styrene	ND	2.5	0.50	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.74	ug/kg	
127-18-4	Tetrachloroethene	ND	2.5	0.72	ug/kg	
108-88-3	Toluene	ND	1.2	0.65	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.2	3.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.2	3.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.60	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.5	0.69	ug/kg	
79-01-6	Trichloroethene	ND	1.2	0.95	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.2	0.85	ug/kg	
75-01-4	Vinyl chloride	ND	2.5	0.60	ug/kg	
	m,p-Xylene	ND	1.2	1.1	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.57	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.57	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		72-130%
17060-07-0	1,2-Dichloroethane-D4	113%		75-131%
2037-26-5	Toluene-D8	104%		81-121%
460-00-4	4-Bromofluorobenzene	97%		60-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-8 (9.5-10.0)		
Lab Sample ID:	JD29923-6	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	91.4
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F201239.D	1	08/18/21 20:10	KLS	08/18/21 09:10	OP34922	EF8807
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	72	18	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	31	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	64	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	180	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	180	39	ug/kg	
95-48-7	2-Methylphenol	ND	72	23	ug/kg	
	3&4-Methylphenol	ND	72	30	ug/kg	
88-75-5	2-Nitrophenol	ND	180	24	ug/kg	
100-02-7	4-Nitrophenol	ND	360	96	ug/kg	
87-86-5	Pentachlorophenol	ND	140	34	ug/kg	
108-95-2	Phenol	ND	72	19	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	24	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	22	ug/kg	
83-32-9	Acenaphthene	ND	36	12	ug/kg	
208-96-8	Acenaphthylene	ND	36	18	ug/kg	
98-86-2	Acetophenone	ND	180	7.8	ug/kg	
120-12-7	Anthracene	ND	36	22	ug/kg	
1912-24-9	Atrazine [a]	ND	72	15	ug/kg	
56-55-3	Benzo(a)anthracene	ND	36	10	ug/kg	
50-32-8	Benzo(a)pyrene	ND	36	16	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	36	16	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	36	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	36	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	72	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	72	8.8	ug/kg	
92-52-4	1,1'-Biphenyl	ND	72	4.9	ug/kg	
100-52-7	Benzaldehyde	ND	180	9.0	ug/kg	
91-58-7	2-Chloronaphthalene	ND	72	8.6	ug/kg	
106-47-8	4-Chloroaniline	ND	180	13	ug/kg	
86-74-8	Carbazole	ND	72	5.2	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-8 (9.5-10.0)
Lab Sample ID: JD29923-6 **Date Sampled:** 08/13/21
Matrix: SO - Soil **Date Received:** 08/14/21
Method: SW846 8270E SW846 3546 **Percent Solids:** 91.4
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	72	14	ug/kg	
218-01-9	Chrysene	ND	36	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	72	7.7	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	72	16	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	72	13	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	72	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	36	11	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	36	18	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	72	30	ug/kg	
123-91-1	1,4-Dioxane	ND	36	24	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	36	16	ug/kg	
132-64-9	Dibenzofuran	ND	72	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	72	5.9	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	72	9.0	ug/kg	
84-66-2	Diethyl phthalate	ND	72	7.7	ug/kg	
131-11-3	Dimethyl phthalate	ND	72	6.4	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	72	8.4	ug/kg	
206-44-0	Fluoranthene	ND	36	16	ug/kg	
86-73-7	Fluorene	ND	36	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	72	9.1	ug/kg	
87-68-3	Hexachlorobutadiene	ND	36	15	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	360	14	ug/kg	
67-72-1	Hexachloroethane	ND	180	18	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	36	17	ug/kg	
78-59-1	Isophorone	ND	72	7.7	ug/kg	
91-57-6	2-Methylnaphthalene	ND	36	8.2	ug/kg	
88-74-4	2-Nitroaniline	ND	180	8.5	ug/kg	
99-09-2	3-Nitroaniline	ND	180	9.0	ug/kg	
100-01-6	4-Nitroaniline	ND	180	9.4	ug/kg	
91-20-3	Naphthalene	ND	36	10	ug/kg	
98-95-3	Nitrobenzene	ND	72	14	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	72	10	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	13	ug/kg	
85-01-8	Phenanthrene	ND	36	12	ug/kg	
129-00-0	Pyrene	ND	36	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	9.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	55%		7-101%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8 (9.5-10.0)		
Lab Sample ID:	JD29923-6	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	91.4
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	52%		12-101%
118-79-6	2,4,6-Tribromophenol	59%		10-127%
4165-60-0	Nitrobenzene-d5	64%		15-114%
321-60-8	2-Fluorobiphenyl	60%		22-104%
1718-51-0	Terphenyl-d14	73%		23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	System artifact/aldol-condensation	3.40	170	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-8 (9.5-10.0)		
Lab Sample ID:	JD29923-6	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	91.4
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G169086.D	1	08/19/21 19:36	TC	08/19/21 09:30	OP34925	G1G5787
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.72	0.59	ug/kg	
319-84-6	alpha-BHC	ND	0.72	0.58	ug/kg	
319-85-7	beta-BHC	ND	0.72	0.65	ug/kg	
319-86-8	delta-BHC	ND	0.72	0.69	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.72	0.53	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.72	0.58	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.72	0.32	ug/kg	
60-57-1	Dieldrin	ND	0.72	0.49	ug/kg	
72-54-8	4,4'-DDD	ND	0.72	0.66	ug/kg	
72-55-9	4,4'-DDE	ND	0.72	0.63	ug/kg	
50-29-3	4,4'-DDT	ND	0.72	0.63	ug/kg	
72-20-8	Endrin	ND	0.72	0.56	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.72	0.56	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.72	0.41	ug/kg	
959-98-8	Endosulfan-I	ND	0.72	0.41	ug/kg	
33213-65-9	Endosulfan-II	ND	0.72	0.45	ug/kg	
76-44-8	Heptachlor	ND	0.72	0.62	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.72	0.50	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.57	ug/kg	
53494-70-5	Endrin ketone	ND	0.72	0.52	ug/kg	
8001-35-2	Toxaphene	ND	18	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	65%		27-138%
877-09-8	Tetrachloro-m-xylene	69%		27-138%
2051-24-3	Decachlorobiphenyl	67%		10-179%
2051-24-3	Decachlorobiphenyl	68%		10-179%

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N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-8 (9.5-10.0)		
Lab Sample ID:	JD29923-6	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8082A SW846 3546	**Percent Solids:**	91.4
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RK2839.D	1	08/19/21 18:02	TC	08/19/21 09:30	OP34926	GRK77
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	17	ug/kg	
11104-28-2	Aroclor 1221	ND	36	22	ug/kg	
11141-16-5	Aroclor 1232	ND	36	23	ug/kg	
53469-21-9	Aroclor 1242	ND	36	15	ug/kg	
12672-29-6	Aroclor 1248	ND	36	32	ug/kg	
11097-69-1	Aroclor 1254	ND	36	19	ug/kg	
11096-82-5	Aroclor 1260	ND	36	15	ug/kg	
11100-14-4	Aroclor 1268	ND	36	15	ug/kg	
37324-23-5	Aroclor 1262	ND	36	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	76%		24-152%
877-09-8	Tetrachloro-m-xylene	92%		24-152%
2051-24-3	Decachlorobiphenyl	72%		10-172%
2051-24-3	Decachlorobiphenyl	76%		10-172%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8 (9.5-10.0)		
Lab Sample ID:	JD29923-6	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
		Percent Solids:	91.4
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	17000	56	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Antimony [a]	< 4.5	4.5	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Arsenic [a]	< 4.5	4.5	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	174	23	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Beryllium [a]	0.87	0.45	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium [a]	< 1.1	1.1	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Calcium	11300	560	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	27.6	1.1	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cobalt [a]	11.8	11	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper [a]	20.5	5.6	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Iron	28000	110	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead [a]	8.4	4.5	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Magnesium	9150	560	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Manganese	409	1.7	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.034	0.034	mg/kg	1	08/19/21	08/19/21	LM	SW846 7471B [1]	SW846 7471B [4]
Nickel	21.6	4.5	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Potassium	7170	1100	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium [a]	< 4.5	4.5	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver [a]	1.4	1.1	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Thallium [a]	< 2.3	2.3	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Vanadium	37.9	5.6	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	58.9	5.6	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA50998
(2) Instrument QC Batch: MA51003
(3) Prep QC Batch: MP28126
(4) Prep QC Batch: MP28157

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SB-8 (9.5-10.0)		
Lab Sample ID:	JD29923-6	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
		Percent Solids:	91.4
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.25	0.25	mg/kg	1	08/18/21 20:03	JJ	SW846 9012B/LACHAT
Solids, Percent	91.4		%	1	08/17/21 16:40	BG	SM2540 G 18TH ED MOD

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-9 (7.5-8.0)		
Lab Sample ID:	JD29923-7	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	90.8
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180261.D	1	08/19/21 12:55	PS	08/14/21 17:00	n/a	V1C7856
Run #2							

	Initial Weight
Run #1	5.7 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	9.7	4.0	ug/kg	
71-43-2	Benzene	ND	0.48	0.44	ug/kg	
74-97-5	Bromochloromethane	ND	4.8	0.54	ug/kg	
75-27-4	Bromodichloromethane	ND	1.9	0.41	ug/kg	
75-25-2	Bromoform	ND	4.8	1.3	ug/kg	
74-83-9	Bromomethane	ND	4.8	0.74	ug/kg	
78-93-3	2-Butanone (MEK) [a]	ND	9.7	2.3	ug/kg	
75-15-0	Carbon disulfide	ND	1.9	0.52	ug/kg	
56-23-5	Carbon tetrachloride	ND	1.9	0.60	ug/kg	
108-90-7	Chlorobenzene	ND	1.9	0.44	ug/kg	
75-00-3	Chloroethane	ND	4.8	0.57	ug/kg	
67-66-3	Chloroform	ND	1.9	0.50	ug/kg	
74-87-3	Chloromethane	ND	4.8	1.9	ug/kg	
110-82-7	Cyclohexane	ND	1.9	0.63	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.9	0.67	ug/kg	
124-48-1	Dibromochloromethane	ND	1.9	0.54	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.97	0.41	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.97	0.53	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.97	0.48	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.97	0.48	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.8	0.70	ug/kg	
75-34-3	1,1-Dichloroethane	ND	0.97	0.48	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.97	0.45	ug/kg	
75-35-4	1,1-Dichloroethene	ND	0.97	0.63	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.97	0.81	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.97	0.59	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1.9	0.46	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	0.46	ug/kg	
10061-02-6	trans-1,3-Dichloropropene [a]	ND	1.9	0.44	ug/kg	
100-41-4	Ethylbenzene	ND	0.97	0.44	ug/kg	
76-13-1	Freon 113	ND	4.8	2.6	ug/kg	
591-78-6	2-Hexanone	ND	4.8	2.0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-9 (7.5-8.0)		
Lab Sample ID:	JD29923-7	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	90.8
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.9	1.4	ug/kg	
79-20-9	Methyl Acetate	ND	4.8	1.3	ug/kg	
108-87-2	Methylcyclohexane	ND	1.9	0.85	ug/kg	
1634-04-4	Methyl Tert Butyl Ether [a]	ND	0.97	0.45	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.8	2.2	ug/kg	
75-09-2	Methylene chloride	ND	4.8	2.5	ug/kg	
100-42-5	Styrene	ND	1.9	0.39	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.9	0.58	ug/kg	
127-18-4	Tetrachloroethene	ND	1.9	0.56	ug/kg	
108-88-3	Toluene	ND	0.97	0.51	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.8	2.4	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	2.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1.9	0.47	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.9	0.54	ug/kg	
79-01-6	Trichloroethene	ND	0.97	0.74	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.8	0.66	ug/kg	
75-01-4	Vinyl chloride	ND	1.9	0.46	ug/kg	
	m,p-Xylene	ND	0.97	0.87	ug/kg	
95-47-6	o-Xylene	ND	0.97	0.44	ug/kg	
1330-20-7	Xylene (total)	ND	0.97	0.44	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		72-130%
17060-07-0	1,2-Dichloroethane-D4	112%		75-131%
2037-26-5	Toluene-D8	104%		81-121%
460-00-4	4-Bromofluorobenzene	100%		60-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) Associated CCV outside of control limits high, sample was ND.

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N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-9 (7.5-8.0)		
Lab Sample ID:	JD29923-7	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	90.8
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F201240A.D	1	08/18/21 21:16	KLS	08/18/21 09:10	OP34922	EF8807
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	73	18	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	23	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	31	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	65	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	180	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	180	39	ug/kg	
95-48-7	2-Methylphenol	ND	73	23	ug/kg	
	3&4-Methylphenol	ND	73	30	ug/kg	
88-75-5	2-Nitrophenol	ND	180	24	ug/kg	
100-02-7	4-Nitrophenol	ND	370	98	ug/kg	
87-86-5	Pentachlorophenol	ND	150	34	ug/kg	
108-95-2	Phenol	ND	73	19	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	24	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	22	ug/kg	
83-32-9	Acenaphthene	ND	37	13	ug/kg	
208-96-8	Acenaphthylene	ND	37	19	ug/kg	
98-86-2	Acetophenone	ND	180	7.9	ug/kg	
120-12-7	Anthracene	ND	37	23	ug/kg	
1912-24-9	Atrazine [a]	ND	73	16	ug/kg	
56-55-3	Benzo(a)anthracene	ND	37	10	ug/kg	
50-32-8	Benzo(a)pyrene	ND	37	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	37	16	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	37	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	37	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	73	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	73	9.0	ug/kg	
92-52-4	1,1'-Biphenyl	ND	73	5.0	ug/kg	
100-52-7	Benzaldehyde	ND	180	9.1	ug/kg	
91-58-7	2-Chloronaphthalene	ND	73	8.7	ug/kg	
106-47-8	4-Chloroaniline	ND	180	13	ug/kg	
86-74-8	Carbazole	ND	73	5.3	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-9 (7.5-8.0)		
Lab Sample ID:	JD29923-7	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	90.8
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	73	15	ug/kg	
218-01-9	Chrysene	ND	37	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	73	7.9	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	73	16	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	73	13	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	73	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	37	11	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	37	18	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	73	31	ug/kg	
123-91-1	1,4-Dioxane	ND	37	24	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	37	16	ug/kg	
132-64-9	Dibenzofuran	ND	73	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	73	6.0	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	73	9.1	ug/kg	
84-66-2	Diethyl phthalate	ND	73	7.8	ug/kg	
131-11-3	Dimethyl phthalate	ND	73	6.5	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	73	8.6	ug/kg	
206-44-0	Fluoranthene	ND	37	16	ug/kg	
86-73-7	Fluorene	ND	37	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	73	9.3	ug/kg	
87-68-3	Hexachlorobutadiene	ND	37	15	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	370	15	ug/kg	
67-72-1	Hexachloroethane	ND	180	18	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	37	17	ug/kg	
78-59-1	Isophorone	ND	73	7.9	ug/kg	
91-57-6	2-Methylnaphthalene	ND	37	8.3	ug/kg	
88-74-4	2-Nitroaniline	ND	180	8.7	ug/kg	
99-09-2	3-Nitroaniline	ND	180	9.2	ug/kg	
100-01-6	4-Nitroaniline	ND	180	9.5	ug/kg	
91-20-3	Naphthalene	ND	37	10	ug/kg	
98-95-3	Nitrobenzene	ND	73	14	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	73	11	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	13	ug/kg	
85-01-8	Phenanthrene	ND	37	12	ug/kg	
129-00-0	Pyrene	ND	37	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	9.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	54%		7-101%

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Report of Analysis

Client Sample ID:	SB-9 (7.5-8.0)		
Lab Sample ID:	JD29923-7	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	90.8
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	51%		12-101%
118-79-6	2,4,6-Tribromophenol	59%		10-127%
4165-60-0	Nitrobenzene-d5	61%		15-114%
321-60-8	2-Fluorobiphenyl	60%		22-104%
1718-51-0	Terphenyl-d14	74%		23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	System artifact/aldol-condensation	3.40	160	ug/kg	J
57-11-4	Octadecanoic acid	11.59	230	ug/kg	JN
	Total TIC, Semi-Volatile		230	ug/kg	J

(a) Associated CCV outside of control limits high, sample was ND.

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SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-9 (7.5-8.0)		
Lab Sample ID:	JD29923-7	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	90.8
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G169087.D	1	08/19/21 19:54	TC	08/19/21 09:30	OP34925	G1G5787
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.72	0.59	ug/kg	
319-84-6	alpha-BHC	ND	0.72	0.58	ug/kg	
319-85-7	beta-BHC	ND	0.72	0.65	ug/kg	
319-86-8	delta-BHC	ND	0.72	0.69	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.72	0.53	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.72	0.58	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.72	0.32	ug/kg	
60-57-1	Dieldrin	ND	0.72	0.49	ug/kg	
72-54-8	4,4'-DDD	ND	0.72	0.66	ug/kg	
72-55-9	4,4'-DDE	ND	0.72	0.63	ug/kg	
50-29-3	4,4'-DDT	ND	0.72	0.63	ug/kg	
72-20-8	Endrin	ND	0.72	0.56	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.72	0.56	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.72	0.41	ug/kg	
959-98-8	Endosulfan-I	ND	0.72	0.41	ug/kg	
33213-65-9	Endosulfan-II	ND	0.72	0.45	ug/kg	
76-44-8	Heptachlor	ND	0.72	0.62	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.72	0.50	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.57	ug/kg	
53494-70-5	Endrin ketone	ND	0.72	0.52	ug/kg	
8001-35-2	Toxaphene	ND	18	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		27-138%
877-09-8	Tetrachloro-m-xylene	86%		27-138%
2051-24-3	Decachlorobiphenyl	82%		10-179%
2051-24-3	Decachlorobiphenyl	83%		10-179%

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SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-9 (7.5-8.0)		
Lab Sample ID:	JD29923-7	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8082A SW846 3546	**Percent Solids:**	90.8
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RK2844.D	1	08/19/21 19:25	TC	08/19/21 09:30	OP34926	GRK77
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	17	ug/kg	
11104-28-2	Aroclor 1221	ND	36	22	ug/kg	
11141-16-5	Aroclor 1232	ND	36	23	ug/kg	
53469-21-9	Aroclor 1242	ND	36	15	ug/kg	
12672-29-6	Aroclor 1248	ND	36	32	ug/kg	
11097-69-1	Aroclor 1254	ND	36	19	ug/kg	
11096-82-5	Aroclor 1260	ND	36	15	ug/kg	
11100-14-4	Aroclor 1268	ND	36	15	ug/kg	
37324-23-5	Aroclor 1262	ND	36	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	95%		24-152%
877-09-8	Tetrachloro-m-xylene	114%		24-152%
2051-24-3	Decachlorobiphenyl	90%		10-172%
2051-24-3	Decachlorobiphenyl	98%		10-172%

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Report of Analysis

Client Sample ID:	SB-9 (7.5-8.0)		
Lab Sample ID:	JD29923-7	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
		Percent Solids:	90.8
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	16200	58	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Antimony [a]	< 4.6	4.6	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Arsenic [a]	< 4.6	4.6	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	168	23	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Beryllium [a]	0.85	0.46	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium [a]	< 1.2	1.2	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Calcium	9530	580	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	27.1	1.2	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cobalt [a]	< 12	12	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper [a]	20.3	5.8	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Iron	28000	120	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead [a]	7.6	4.6	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Magnesium	9050	580	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Manganese	314	1.7	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.034	0.034	mg/kg	1	08/19/21	08/19/21	LM	SW846 7471B [1]	SW846 7471B [4]
Nickel	21.0	4.6	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Potassium	7180	1200	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium [a]	< 4.6	4.6	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver [a]	1.5	1.2	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1200	1200	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Thallium [a]	< 2.3	2.3	mg/kg	2	08/18/21	08/19/21	ND	SW846 6010D [2]	SW846 3050B [3]
Vanadium	36.8	5.8	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	58.6	5.8	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA50998
(2) Instrument QC Batch: MA51003
(3) Prep QC Batch: MP28126
(4) Prep QC Batch: MP28157

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SB-9 (7.5-8.0)		
Lab Sample ID:	JD29923-7	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
		Percent Solids:	90.8
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.26	0.26	mg/kg	1	08/18/21 20:05	JJ	SW846 9012B/LACHAT
Solids, Percent	90.8		%	1	08/17/21 16:40	BG	SM2540 G 18TH ED MOD

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID: SB-10 (7.5-8.0)
Lab Sample ID: JD29923-8 **Date Sampled:** 08/13/21
Matrix: SO - Soil **Date Received:** 08/14/21
Method: SW846 8260D SW846 5035 **Percent Solids:** 88.8
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C168633.D	1	08/19/21 16:45	PS	08/14/21 17:00	n/a	V3C7462
Run #2							

	Initial Weight
Run #1	4.9 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	4.8	ug/kg	
71-43-2	Benzene	ND	0.57	0.52	ug/kg	
74-97-5	Bromochloromethane	ND	5.7	0.64	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	0.49	ug/kg	
75-25-2	Bromoform	ND	5.7	1.6	ug/kg	
74-83-9	Bromomethane [a]	ND	5.7	0.88	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.8	ug/kg	
75-15-0	Carbon disulfide	ND	2.3	0.61	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	0.71	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	0.53	ug/kg	
75-00-3	Chloroethane	ND	5.7	0.68	ug/kg	
67-66-3	Chloroform	ND	2.3	0.60	ug/kg	
74-87-3	Chloromethane	ND	5.7	2.3	ug/kg	
110-82-7	Cyclohexane	ND	2.3	0.75	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.3	0.80	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	0.64	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.48	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.63	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.57	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.57	ug/kg	
75-71-8	Dichlorodifluoromethane [a]	ND	5.7	0.84	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.1	0.57	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.54	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.1	0.75	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.97	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.70	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	0.54	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	0.55	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	0.53	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.52	ug/kg	
76-13-1	Freon 113	ND	5.7	3.1	ug/kg	
591-78-6	2-Hexanone	ND	5.7	2.4	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-10 (7.5-8.0)		
Lab Sample ID:	JD29923-8	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	88.8
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.3	1.6	ug/kg	
79-20-9	Methyl Acetate	ND	5.7	1.6	ug/kg	
108-87-2	Methylcyclohexane	ND	2.3	1.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.54	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.7	2.6	ug/kg	
75-09-2	Methylene chloride	ND	5.7	3.0	ug/kg	
100-42-5	Styrene	ND	2.3	0.46	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	0.69	ug/kg	
127-18-4	Tetrachloroethene	ND	2.3	0.67	ug/kg	
108-88-3	Toluene	ND	1.1	0.60	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.7	2.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.7	2.9	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	0.56	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	0.64	ug/kg	
79-01-6	Trichloroethene	ND	1.1	0.88	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.7	0.79	ug/kg	
75-01-4	Vinyl chloride	ND	2.3	0.55	ug/kg	
	m,p-Xylene	ND	1.1	1.0	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.53	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.53	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		72-130%
17060-07-0	1,2-Dichloroethane-D4	101%		75-131%
2037-26-5	Toluene-D8	100%		81-121%
460-00-4	4-Bromofluorobenzene	103%		60-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-10 (7.5-8.0)		
Lab Sample ID:	JD29923-8	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	88.8
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F201241.D	1	08/18/21 21:44	KLS	08/18/21 09:10	OP34922	EF8807
Run #2							

	Initial Weight	Final Volume
Run #1	30.7 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	73	18	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	31	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	65	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	180	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	180	39	ug/kg	
95-48-7	2-Methylphenol	ND	73	23	ug/kg	
	3&4-Methylphenol	ND	73	30	ug/kg	
88-75-5	2-Nitrophenol	ND	180	24	ug/kg	
100-02-7	4-Nitrophenol	ND	370	98	ug/kg	
87-86-5	Pentachlorophenol	ND	150	34	ug/kg	
108-95-2	Phenol	ND	73	19	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	24	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	22	ug/kg	
83-32-9	Acenaphthene	ND	37	13	ug/kg	
208-96-8	Acenaphthylene	ND	37	19	ug/kg	
98-86-2	Acetophenone	ND	180	7.9	ug/kg	
120-12-7	Anthracene	ND	37	22	ug/kg	
1912-24-9	Atrazine [a]	ND	73	16	ug/kg	
56-55-3	Benzo(a)anthracene	ND	37	10	ug/kg	
50-32-8	Benzo(a)pyrene	ND	37	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	37	16	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	37	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	37	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	73	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	73	9.0	ug/kg	
92-52-4	1,1'-Biphenyl	ND	73	5.0	ug/kg	
100-52-7	Benzaldehyde	ND	180	9.1	ug/kg	
91-58-7	2-Chloronaphthalene	ND	73	8.7	ug/kg	
106-47-8	4-Chloroaniline	ND	180	13	ug/kg	
86-74-8	Carbazole	ND	73	5.3	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-10 (7.5-8.0)		
Lab Sample ID:	JD29923-8	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	88.8
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	73	14	ug/kg	
218-01-9	Chrysene	ND	37	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	73	7.8	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	73	16	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	73	13	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	73	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	37	11	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	37	18	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	73	31	ug/kg	
123-91-1	1,4-Dioxane	ND	37	24	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	37	16	ug/kg	
132-64-9	Dibenzofuran	ND	73	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	73	6.0	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	73	9.1	ug/kg	
84-66-2	Diethyl phthalate	ND	73	7.8	ug/kg	
131-11-3	Dimethyl phthalate	ND	73	6.5	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	73	8.6	ug/kg	
206-44-0	Fluoranthene	ND	37	16	ug/kg	
86-73-7	Fluorene	ND	37	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	73	9.3	ug/kg	
87-68-3	Hexachlorobutadiene	ND	37	15	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	370	15	ug/kg	
67-72-1	Hexachloroethane	ND	180	18	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	37	17	ug/kg	
78-59-1	Isophorone	ND	73	7.8	ug/kg	
91-57-6	2-Methylnaphthalene	ND	37	8.3	ug/kg	
88-74-4	2-Nitroaniline	ND	180	8.7	ug/kg	
99-09-2	3-Nitroaniline	ND	180	9.2	ug/kg	
100-01-6	4-Nitroaniline	ND	180	9.5	ug/kg	
91-20-3	Naphthalene	ND	37	10	ug/kg	
98-95-3	Nitrobenzene	ND	73	14	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	73	11	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	13	ug/kg	
85-01-8	Phenanthrene	ND	37	12	ug/kg	
129-00-0	Pyrene	ND	37	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	9.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		7-101%

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Report of Analysis

Client Sample ID:	SB-10 (7.5-8.0)		
Lab Sample ID:	JD29923-8	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	88.8
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	43%		12-101%
118-79-6	2,4,6-Tribromophenol	55%		10-127%
4165-60-0	Nitrobenzene-d5	53%		15-114%
321-60-8	2-Fluorobiphenyl	50%		22-104%
1718-51-0	Terphenyl-d14	65%		23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	System artifact/aldol-condensation	3.40	160	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

(a) Associated CCV outside of control limits high, sample was ND.

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N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-10 (7.5-8.0)		
Lab Sample ID:	JD29923-8	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	88.8
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G169088.D	1	08/19/21 20:12	TC	08/19/21 09:30	OP34925	G1G5787
Run #2							

	Initial Weight	Final Volume
Run #1	16.1 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.70	0.58	ug/kg	
319-84-6	alpha-BHC	ND	0.70	0.57	ug/kg	
319-85-7	beta-BHC	ND	0.70	0.63	ug/kg	
319-86-8	delta-BHC	ND	0.70	0.67	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.70	0.52	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.70	0.56	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.70	0.32	ug/kg	
60-57-1	Dieldrin	ND	0.70	0.48	ug/kg	
72-54-8	4,4'-DDD	ND	0.70	0.64	ug/kg	
72-55-9	4,4'-DDE	ND	0.70	0.61	ug/kg	
50-29-3	4,4'-DDT	ND	0.70	0.62	ug/kg	
72-20-8	Endrin	ND	0.70	0.54	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.70	0.55	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.70	0.40	ug/kg	
959-98-8	Endosulfan-I	ND	0.70	0.40	ug/kg	
33213-65-9	Endosulfan-II	ND	0.70	0.44	ug/kg	
76-44-8	Heptachlor	ND	0.70	0.60	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.70	0.49	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.56	ug/kg	
53494-70-5	Endrin ketone	ND	0.70	0.51	ug/kg	
8001-35-2	Toxaphene	ND	17	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	90%		27-138%
877-09-8	Tetrachloro-m-xylene	93%		27-138%
2051-24-3	Decachlorobiphenyl	98%		10-179%
2051-24-3	Decachlorobiphenyl	92%		10-179%

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-10 (7.5-8.0)		
Lab Sample ID:	JD29923-8	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
Method:	SW846 8082A SW846 3546	**Percent Solids:**	88.8
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RK2845.D	1	08/19/21 19:41	TC	08/19/21 09:30	OP34926	GRK77
Run #2							

	Initial Weight	Final Volume
Run #1	16.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	16	ug/kg	
11104-28-2	Aroclor 1221	ND	35	22	ug/kg	
11141-16-5	Aroclor 1232	ND	35	22	ug/kg	
53469-21-9	Aroclor 1242	ND	35	14	ug/kg	
12672-29-6	Aroclor 1248	ND	35	31	ug/kg	
11097-69-1	Aroclor 1254	ND	35	19	ug/kg	
11096-82-5	Aroclor 1260	ND	35	15	ug/kg	
11100-14-4	Aroclor 1268	ND	35	15	ug/kg	
37324-23-5	Aroclor 1262	ND	35	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	94%		24-152%
877-09-8	Tetrachloro-m-xylene	113%		24-152%
2051-24-3	Decachlorobiphenyl	92%		10-172%
2051-24-3	Decachlorobiphenyl	102%		10-172%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-10 (7.5-8.0)		
Lab Sample ID:	JD29923-8	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
		Percent Solids:	88.8
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	7740	58	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.3	2.3	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Arsenic	< 2.3	2.3	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	103	23	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.36	0.23	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.58	0.58	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Calcium	5340	580	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	15.0	1.2	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cobalt	6.1	5.8	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper	10.9	2.9	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Iron	15000	58	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	4.4	2.3	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Magnesium	4710	580	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Manganese	545	1.7	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.030	0.030	mg/kg	1	08/19/21	08/19/21	LM	SW846 7471B [1]	SW846 7471B [4]
Nickel	11.2	4.6	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Potassium	3300	1200	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.3	2.3	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver	1.0	0.58	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1200	1200	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.2	1.2	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Vanadium	20.2	5.8	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	32.8	5.8	mg/kg	1	08/18/21	08/18/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA50998
(2) Instrument QC Batch: MA51003
(3) Prep QC Batch: MP28126
(4) Prep QC Batch: MP28157

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SB-10 (7.5-8.0)		
Lab Sample ID:	JD29923-8	**Date Sampled:**	08/13/21
Matrix:	SO - Soil	**Date Received:**	08/14/21
		Percent Solids:	88.8
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.27	0.27	mg/kg	1	08/18/21 20:06	JJ	SW846 9012B/LACHAT
Solids, Percent	88.8		%	1	08/17/21 16:40	BG	SM2540 G 18TH ED MOD

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	TB		
Lab Sample ID:	JD29923-9	**Date Sampled:**	08/13/21
Matrix:	AQ - Trip Blank Soil	**Date Received:**	08/14/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D111927.D	1	08/19/21 17:44	JS	n/a	n/a	V4D4985
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane [a]	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [a]	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB		
Lab Sample ID:	JD29923-9	**Date Sampled:**	08/13/21
Matrix:	AQ - Trip Blank Soil	**Date Received:**	08/14/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Ossining Investigation, 136-140 Croton Avnue, Ossining, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		85-118%
17060-07-0	1,2-Dichloroethane-D4	120%		80-121%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	95%		80-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
7446-09-5	Sulfur dioxide	4.87	6.7	ug/l	JN
	Total TIC, Volatile		6.7	ug/l	J

(a) Associated CCV outside of control limits low.

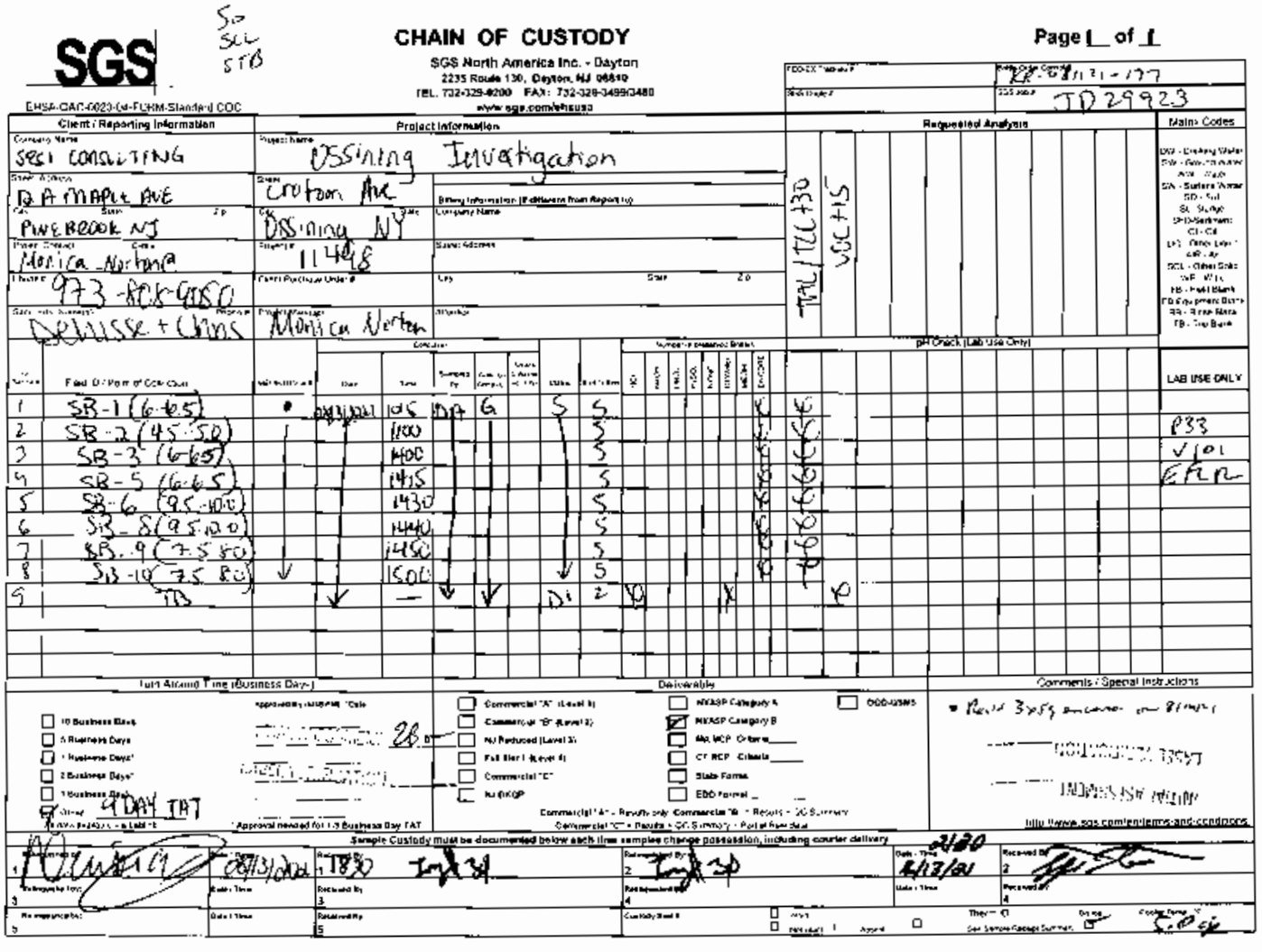
ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody



SGS

SO
SCL
STO

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/0480
www.sgs.com/ehsusa

EHSA-CAC-0023-(a)-FLHM-Standard COC

Page 1 of 1

JD29923

Client / Reporting Information

Company Name: SECI CONSULTING
Street Address: 9 A MAPLE AVE
City: PINEBROOK Zip: NJ
Project Manager: Monica Norton
Telephone: 973-808-4050
Sampler(s): DELUSSE + CHRIS

Project Information

Project Name: OSSINING Investigation
Street: Croton Ave
City: OSSINING NY
Project #: 114498
Client Purchase Order #:
Project Manager: Monica Norton

Billing Information (If different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis

TAL/TCL+TICs
VOC+15

Matrix Codes

DW - Drinking Water
GW - Groundwater
WW - Wastewater
SW - Surface Water
SO - Soil
SL - Sludge
SED - Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SCL - Other Solid
WP - Wipe
FB - Field Blank
EB - Equipment Blank
RB - Rinse Blank
TB - Trip Blank

Sample #	Field ID / Point of Collection	MS/MSD	Collection Date	Collection Time	Sampled by	# of bottles	Matrix	Preservatives	pH Check (Lab Use Only)	LAB USE ONLY
1	SB-1 (6-6.5)	*	8/3/2021	1015	DA	6	SO	5		
2	SB-2 (4.5-5.0)			1100				5		P33
3	SB-3 (6-6.5)			1400				5		V101
4	SB-5 (6-6.5)			1415				5		EFR
5	SB-6 (9.5-10.0)			1430				5		
6	SB-8 (9.5-10.0)			1440				5		
7	SB-9 (7.5-8.0)			1450				5		
8	SB-10 (7.5-8.0)			1500				5		
9	TB			—			DI	2		

Turn Around Time (Business Days)

- 10 Business Days
- 5 Business Days
- 4 Business Days*
- 3 Business Days*
- 2 Business Days*
- 1 Business Day*
- Other 9 DAY TAT

* Approval needed for 1-3 Business Day TAT

Deliverable

- Commercial "A" (Level 1)
- Commercial "B" (Level 2)
- NJ Reduced (Level 3)
- Full Blot (Level 4)
- Commercial "C"
- NJ DKQP
- NYASP Category A
- NYASP Category B
- NJ MCP Criteria
- CT RCP Criteria
- State Forms
- EDD Format
- DOD-ELAP

Commercial "A" = Results only Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw Data

Comments / Special Instructions

- Need 3x5g encore on 8/4/21
- [illegible] 13657
- [illegible]

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery

Relinquished by	Date / Time	Received By	Relinquished By	Date / Time	Received By
1	8/3/2021 1830	2	2	8/4/21 0830	2
3		3	4		4
5		5	Custody Seal #	Intact / Not Intact	Preserved where applicable / On Ice / Cooler Temp °C

Their ID

Dry Ice

5.0 c

JD29923: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JD29923 **Client:** SESI CONSULTING ENGINEERS **Project:** 136 CROTON AVENUE, OSSINING, NY

Date / Time Received: 8/13/2021 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (5.0);

Cooler Temps (Corrected) °C: Cooler 1: (4.1);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Internal Sample Tracking Chronicle

SESI Consulting Engineers

Job No: JD29923

Ossining Investigation, 136-140 Croton Avnue, Ossining, NY
Project No: 11498

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29923-1	Collected: 13-AUG-21 10:15 By: DA		Received: 14-AUG-21 By: DDH			
SB-1 (6-6.5)						
JD29923-1	SM2540 G 18TH ED MOD	17-AUG-21 16:40	BG			SOL104
JD29923-1	SW846 8270E	18-AUG-21 18:46	KLS	18-AUG-21	TC	AB8270TCL20+
JD29923-1	SW846 6010D	18-AUG-21 19:30	ND	18-AUG-21	SF	AL,AS,BA,CA,CD,CR,CU,FE,K,MG,MN,NA,NI,PB,SE,V,ZN
JD29923-1	SW846 8260D	18-AUG-21 19:46	PS			V8260TCL20+
JD29923-1	SW846 9012B/LACHAT	18-AUG-21 19:54	JJ	18-AUG-21	MB	CN
JD29923-1	SW846 6010D	19-AUG-21 11:09	ND	18-AUG-21	SF	AG,BE,CO,SB,TL
JD29923-1	SW846 7471B	19-AUG-21 11:12	LM	19-AUG-21	LM	HG
JD29923-1	SW846 8082A	19-AUG-21 17:13	TC	19-AUG-21	TG	P8082PCB11AO
JD29923-1	SW846 8081B	19-AUG-21 18:05	TC	19-AUG-21	TG	P8081PESTTCL
JD29923-2	Collected: 13-AUG-21 11:00 By: DA		Received: 14-AUG-21 By: DDH			
SB-2 (4.5-5.0)						
JD29923-2	SM2540 G 18TH ED MOD	17-AUG-21 16:40	BG			SOL104
JD29923-2	SW846 6010D	18-AUG-21 19:35	ND	18-AUG-21	SF	AL,BA,CA,CR,K,MG,MN,NA,NI,V,ZN
JD29923-2	SW846 9012B/LACHAT	18-AUG-21 19:55	JJ	18-AUG-21	MB	CN
JD29923-2	SW846 8260D	18-AUG-21 20:13	PS			V8260TCL20+
JD29923-2	SW846 8270E	18-AUG-21 22:12	KLS	18-AUG-21	TC	AB8270TCL20+
JD29923-2	SW846 7471B	19-AUG-21 11:13	LM	19-AUG-21	LM	HG
JD29923-2	SW846 6010D	19-AUG-21 11:14	ND	18-AUG-21	SF	AG,AS,BE,CO,CU,FE,PB,SB,SE,TL
JD29923-2	SW846 8082A	19-AUG-21 20:14	TC	19-AUG-21	TG	P8082PCB11AO
JD29923-2	SW846 8081B	19-AUG-21 20:30	TC	19-AUG-21	TG	P8081PESTTCL
JD29923-3	Collected: 13-AUG-21 14:00 By: DA		Received: 14-AUG-21 By: DDH			
SB-3 (6-6.5)						
JD29923-3	SM2540 G 18TH ED MOD	17-AUG-21 16:40	BG			SOL104
JD29923-3	SW846 6010D	18-AUG-21 19:50	ND	18-AUG-21	SF	AL,AS,BA,CA,CD,CR,CU,FE,K,MG,MN,NA,NI,PB,SE,V,ZN
JD29923-3	SW846 9012B/LACHAT	18-AUG-21 19:57	JJ	18-AUG-21	MB	CN
JD29923-3	SW846 8260D	18-AUG-21 20:41	PS			V8260TCL20+
JD29923-3	SW846 8270E	18-AUG-21 22:39	KLS	18-AUG-21	TC	AB8270TCL20+
JD29923-3	SW846 7471B	19-AUG-21 11:18	LM	19-AUG-21	LM	HG
JD29923-3	SW846 6010D	19-AUG-21 11:19	ND	18-AUG-21	SF	AG,BE,CO,SB,TL

Internal Sample Tracking Chronicle

SESI Consulting Engineers

Job No: JD29923

Ossining Investigation, 136-140 Croton Avnue, Ossining, NY
Project No: 11498

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29923-3	SW846 8082A	19-AUG-21 19:57	TC	19-AUG-21	TG	P8082PCB11AO
JD29923-3	SW846 8081B	19-AUG-21 20:48	TC	19-AUG-21	TG	P8081PESTTCL
JD29923-4	Collected: 13-AUG-21 14:15 By: DA			Received: 14-AUG-21 By: DDH		
SB-5 (6-6.5)						
JD29923-4	SM2540 G 18TH ED MOD	17-AUG-21 16:40	BG			SOL104
JD29923-4	SW846 8270E	18-AUG-21 19:14	KLS	18-AUG-21	TC	AB8270TCL20+
JD29923-4	SW846 6010D	18-AUG-21 19:55	ND	18-AUG-21	SF	AL,BA,CA,CR,K,MG,MN,NA,NI,V,ZN
JD29923-4	SW846 9012B/LACHAT	18-AUG-21 20:01	JJ	18-AUG-21	MB	CN
JD29923-4	SW846 8260D	18-AUG-21 21:08	PS			V8260TCL20+
JD29923-4	SW846 7471B	19-AUG-21 11:19	LM	19-AUG-21	LM	HG
JD29923-4	SW846 6010D	19-AUG-21 11:30	ND	18-AUG-21	SF	AG,AS,BE,CD,CO,CU,FE,PB,SB,SE,TL
JD29923-4	SW846 8082A	19-AUG-21 17:29	TC	19-AUG-21	TG	P8082PCB11AO
JD29923-4	SW846 8081B	19-AUG-21 19:00	TC	19-AUG-21	TG	P8081PESTTCL
JD29923-5	Collected: 13-AUG-21 14:30 By: DA			Received: 14-AUG-21 By: DDH		
SB-6 (9.5-10.0)						
JD29923-5	SM2540 G 18TH ED MOD	17-AUG-21 16:40	BG			SOL104
JD29923-5	SW846 8270E	18-AUG-21 19:42	KLS	18-AUG-21	TC	AB8270TCL20+
JD29923-5	SW846 6010D	18-AUG-21 20:00	ND	18-AUG-21	SF	AL,AS,BA,CD,CR,CU,FE,K,MG,MN,NA,NI,PB,SE,V,ZN
JD29923-5	SW846 9012B/LACHAT	18-AUG-21 20:02	JJ	18-AUG-21	MB	CN
JD29923-5	SW846 8260D	18-AUG-21 21:35	PS			V8260TCL20+
JD29923-5	SW846 7471B	19-AUG-21 11:21	LM	19-AUG-21	LM	HG
JD29923-5	SW846 6010D	19-AUG-21 11:45	ND	18-AUG-21	SF	AG,BE,CA,CO,SB,TL
JD29923-5	SW846 8082A	19-AUG-21 17:46	TC	19-AUG-21	TG	P8082PCB11AO
JD29923-5	SW846 8081B	19-AUG-21 19:18	TC	19-AUG-21	TG	P8081PESTTCL
JD29923-6	Collected: 13-AUG-21 14:40 By: DA			Received: 14-AUG-21 By: DDH		
SB-8 (9.5-10.0)						
JD29923-6	SM2540 G 18TH ED MOD	17-AUG-21 16:40	BG			SOL104
JD29923-6	SW846 9012B/LACHAT	18-AUG-21 20:03	JJ	18-AUG-21	MB	CN
JD29923-6	SW846 6010D	18-AUG-21 20:05	ND	18-AUG-21	SF	AL,BA,CA,CR,K,MG,MN,NA,NI,V,ZN
JD29923-6	SW846 8270E	18-AUG-21 20:10	KLS	18-AUG-21	TC	AB8270TCL20+

Internal Sample Tracking Chronicle

SESI Consulting Engineers

Job No: JD29923

Ossining Investigation, 136-140 Croton Avnue, Ossining, NY
Project No: 11498

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29923-6	SW846 8260D	18-AUG-21 22:02	PS			V8260TCL20+
JD29923-6	SW846 7471B	19-AUG-21 11:22	LM	19-AUG-21	LM	HG
JD29923-6	SW846 6010D	19-AUG-21 11:50	ND	18-AUG-21	SF	AG,AS,BE,CD,CO,CU,FE,PB,SB,SE,TL
JD29923-6	SW846 8082A	19-AUG-21 18:02	TC	19-AUG-21	TG	P8082PCB11AO
JD29923-6	SW846 8081B	19-AUG-21 19:36	TC	19-AUG-21	TG	P8081PESTTCL
JD29923-7	Collected: 13-AUG-21 14:50 By: DA			Received: 14-AUG-21 By: DDH		
SB-9 (7.5-8.0)						
JD29923-7	SM2540 G 18TH ED MOD	17-AUG-21 16:40	BG			SOL104
JD29923-7	SW846 9012B/LACHAT	18-AUG-21 20:05	JJ	18-AUG-21	MB	CN
JD29923-7	SW846 6010D	18-AUG-21 20:10	ND	18-AUG-21	SF	AL,BA,CA,CR,K,MG,MN,NA,NI,V,ZN
JD29923-7	SW846 8270E	18-AUG-21 21:16	KLS	18-AUG-21	TC	AB8270TCL20+
JD29923-7	SW846 7471B	19-AUG-21 11:24	LM	19-AUG-21	LM	HG
JD29923-7	SW846 6010D	19-AUG-21 11:55	ND	18-AUG-21	SF	AG,AS,BE,CD,CO,CU,FE,PB,SB,SE,TL
JD29923-7	SW846 8260D	19-AUG-21 12:55	PS			V8260TCL20+
JD29923-7	SW846 8082A	19-AUG-21 19:25	TC	19-AUG-21	TG	P8082PCB11AO
JD29923-7	SW846 8081B	19-AUG-21 19:54	TC	19-AUG-21	TG	P8081PESTTCL
JD29923-8	Collected: 13-AUG-21 15:00 By: DA			Received: 14-AUG-21 By: DDH		
SB-10 (7.5-8.0)						
JD29923-8	SM2540 G 18TH ED MOD	17-AUG-21 16:40	BG			SOL104
JD29923-8	SW846 9012B/LACHAT	18-AUG-21 20:06	JJ	18-AUG-21	MB	CN
JD29923-8	SW846 6010D	18-AUG-21 20:15	ND	18-AUG-21	SF	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD29923-8	SW846 8270E	18-AUG-21 21:44	KLS	18-AUG-21	TC	AB8270TCL20+
JD29923-8	SW846 7471B	19-AUG-21 11:25	LM	19-AUG-21	LM	HG
JD29923-8	SW846 8260D	19-AUG-21 16:45	PS			V8260TCL20+
JD29923-8	SW846 8082A	19-AUG-21 19:41	TC	19-AUG-21	TG	P8082PCB11AO
JD29923-8	SW846 8081B	19-AUG-21 20:12	TC	19-AUG-21	TG	P8081PESTTCL
JD29923-9	Collected: 13-AUG-21 15:00 By: DA			Received: 14-AUG-21 By: DDH		
TB						
JD29923-9	SW846 8260D	19-AUG-21 17:44	JS			V8260TCL20+

SGS Internal Chain of Custody

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY
Received: 08/14/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29923-1.1	James Kwon	Secured Storage	08/14/21 16:04	Return to Storage
JD29923-1.1	Secured Storage	Todd Shoemaker	08/17/21 13:59	Retrieve from Storage
JD29923-1.1	Todd Shoemaker	Secured Staging Area	08/17/21 13:59	Return to Storage
JD29923-1.1	Secured Storage	Todd Shoemaker	08/18/21 10:43	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JD29923-1.1	Todd Shoemaker	Secured Staging Area	08/18/21 10:44	Return to Storage
JD29923-1.1	Secured Staging Area	Naomi Altenbur	08/18/21 12:35	Retrieve from Storage
JD29923-1.1	Naomi Altenbur	Secured Storage	08/18/21 17:18	Return to Storage
JD29923-1.1	Secured Storage	Taylor Gorman	08/19/21 06:33	Retrieve from Storage
JD29923-1.1	Taylor Gorman	Secured Storage	08/19/21 13:10	Return to Storage
JD29923-1.1.1	Taylor Gorman	Organics Prep	08/19/21 06:37	Extract from JD29923-1.1
JD29923-1.1.1	Organics Prep	Taylor Gorman	08/19/21 15:59	Extract from JD29923-1.1
JD29923-1.1.1	Taylor Gorman	Extract Storage	08/19/21 15:59	Return to Storage
JD29923-1.1.1	Extract Storage	Taylor Cavanaugh	08/19/21 17:05	Retrieve from Storage
JD29923-1.1.1	Taylor Cavanaugh	GC1G	08/19/21 17:05	Load on Instrument
JD29923-1.1.2	Taylor Gorman	Organics Prep	08/19/21 06:38	Extract from JD29923-1.1
JD29923-1.1.2	Organics Prep	Taylor Gorman	08/19/21 15:59	Extract from JD29923-1.1
JD29923-1.1.2	Taylor Gorman	Extract Storage	08/19/21 15:59	Return to Storage
JD29923-1.1.2	Extract Storage	Taylor Cavanaugh	08/19/21 16:39	Retrieve from Storage
JD29923-1.1.2	Taylor Cavanaugh	GCRK	08/19/21 16:39	Load on Instrument
JD29923-1.2	Dave Hunkele	Secured Storage	08/14/21 15:35	Return to Storage
JD29923-1.2	Secured Storage	Benjamin Gaines	08/16/21 10:42	Retrieve from Storage
JD29923-1.2	Benjamin Gaines	Secured Staging Area	08/16/21 10:42	Return to Storage
JD29923-1.2	Secured Staging Area	Benjamin Gaines	08/16/21 10:43	Retrieve from Storage
JD29923-1.2	Benjamin Gaines	Secured Storage	08/17/21 09:45	Return to Storage
JD29923-1.2	Secured Storage	Benjamin Gaines	08/17/21 10:24	Retrieve from Storage
JD29923-1.2	Benjamin Gaines	Secured Staging Area	08/17/21 10:24	Return to Storage
JD29923-1.2	Secured Staging Area	Benjamin Gaines	08/17/21 10:25	Retrieve from Storage
JD29923-1.2	Benjamin Gaines	Secured Storage	08/17/21 13:01	Return to Storage
JD29923-1.2	Tyler Strong	Secured Staging Area	08/17/21 23:39	Return to Storage
stage				
JD29923-1.2	Secured Staging Area	Naisha Torres	08/18/21 06:00	Retrieve from Storage
JD29923-1.2	Naisha Torres	Secured Storage	08/18/21 08:58	Return to Storage
JD29923-1.2	Secured Staging Area	Alyssa Koshy	08/18/21 09:02	Retrieve from Storage
Analyst unavailable for custody transfer.				
JD29923-1.2	Alyssa Koshy	Secured Storage	08/18/21 12:28	Return to Storage
JD29923-1.2.1	Naisha Torres	Organics Prep	08/18/21 06:14	Extract from JD29923-1.2
JD29923-1.2.1	Organics Prep	Taylor Cavanaugh	08/18/21 15:17	Extract from JD29923-1.2
JD29923-1.2.1	Taylor Cavanaugh	Extract Storage	08/18/21 15:17	Return to Storage
JD29923-1.2.1	Extract Storage	Kristi Schollenberger	08/18/21 16:21	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY
Received: 08/14/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29923-1.2.1	Kristi Schollenberger	GCMSF	08/18/21 16:21	Load on Instrument
JD29923-1.2.1	GCMSF	Kristi Schollenberger	08/19/21 11:56	Unload from Instrument
JD29923-1.2.1	Kristi Schollenberger	Extract Freezer	08/19/21 11:56	Return to Storage
JD29923-1.2.2	Alyssa Koshy	Metals Digestion	08/18/21 11:18	Digestate from JD29923-1.2
JD29923-1.2.2	Metals Digestion	Alyssa Koshy	08/18/21 11:18	Digestate from JD29923-1.2
JD29923-1.2.2	Alyssa Koshy	Metals Digestate Storage	08/18/21 11:18	Return to Storage
JD29923-1.3	Secured Storage	Benjamin Kim	08/14/21 18:22	Retrieve from Storage
JD29923-1.3	Benjamin Kim		08/14/21 18:23	Depleted
JD29923-1.4	Secured Storage	Benjamin Kim	08/14/21 17:58	Retrieve from Storage
JD29923-1.4	Benjamin Kim	Secured Storage	08/14/21 17:58	Return to Storage
JD29923-1.5	Secured Storage	Benjamin Kim	08/14/21 17:58	Retrieve from Storage
JD29923-1.5	Benjamin Kim	Secured Storage	08/14/21 17:58	Return to Storage
JD29923-1.5	Secured Storage	Prashant Shukla	08/18/21 15:01	Retrieve from Storage
JD29923-1.5	Prashant Shukla	GCMS3C	08/18/21 15:01	Load on Instrument
JD29923-1.5	GCMS3C	Prashant Shukla	08/19/21 09:17	Unload from Instrument
JD29923-1.5	Prashant Shukla		08/19/21 09:18	Depleted
JD29923-1.6	Secured Storage	Benjamin Kim	08/14/21 17:58	Retrieve from Storage
JD29923-1.6	Benjamin Kim	Secured Storage	08/14/21 17:58	Return to Storage
JD29923-2.1	James Kwon	Secured Storage	08/14/21 16:04	Return to Storage
JD29923-2.1	Secured Storage	Todd Shoemaker	08/17/21 13:59	Retrieve from Storage
JD29923-2.1	Todd Shoemaker	Secured Staging Area	08/17/21 13:59	Return to Storage
JD29923-2.1	Secured Storage	Todd Shoemaker	08/18/21 10:43	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JD29923-2.1	Todd Shoemaker	Secured Staging Area	08/18/21 10:44	Return to Storage
JD29923-2.1	Secured Staging Area	Naomi Altenbur	08/18/21 12:35	Retrieve from Storage
JD29923-2.1	Naomi Altenbur	Secured Storage	08/18/21 17:18	Return to Storage
JD29923-2.1	Fernando Tatem	Secured Staging Area	08/19/21 00:55	Return to Storage
stage				
JD29923-2.1	Secured Staging Area	Taylor Gorman	08/19/21 06:32	Retrieve from Storage
JD29923-2.1	Taylor Gorman	Secured Storage	08/19/21 13:10	Return to Storage
JD29923-2.1.1	Taylor Gorman	Organics Prep	08/19/21 06:37	Extract from JD29923-2.1
JD29923-2.1.1	Organics Prep	Taylor Gorman	08/19/21 15:59	Extract from JD29923-2.1
JD29923-2.1.1	Taylor Gorman	Extract Storage	08/19/21 15:59	Return to Storage
JD29923-2.1.1	Extract Storage	Taylor Cavanaugh	08/19/21 17:05	Retrieve from Storage
JD29923-2.1.1	Taylor Cavanaugh	GC1G	08/19/21 17:05	Load on Instrument
JD29923-2.1.2	Taylor Gorman	Organics Prep	08/19/21 06:38	Extract from JD29923-2.1

SGS Internal Chain of Custody

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY
Received: 08/14/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29923-2.1.2	Organics Prep	Taylor Gorman	08/19/21 15:59	Extract from JD29923-2.1
JD29923-2.1.2	Taylor Gorman	Extract Storage	08/19/21 15:59	Return to Storage
JD29923-2.1.2	Extract Storage	Taylor Cavanaugh	08/19/21 16:39	Retrieve from Storage
JD29923-2.1.2	Taylor Cavanaugh	GCRK	08/19/21 16:39	Load on Instrument
JD29923-2.2	Dave Hunkele	Secured Storage	08/14/21 15:35	Return to Storage
JD29923-2.2	Secured Storage	Benjamin Gaines	08/16/21 10:42	Retrieve from Storage
JD29923-2.2	Benjamin Gaines	Secured Staging Area	08/16/21 10:42	Return to Storage
JD29923-2.2	Secured Staging Area	Benjamin Gaines	08/16/21 10:43	Retrieve from Storage
JD29923-2.2	Benjamin Gaines	Secured Storage	08/17/21 09:45	Return to Storage
JD29923-2.2	Secured Storage	Benjamin Gaines	08/17/21 10:24	Retrieve from Storage
JD29923-2.2	Benjamin Gaines	Secured Staging Area	08/17/21 10:24	Return to Storage
JD29923-2.2	Secured Staging Area	Benjamin Gaines	08/17/21 10:25	Retrieve from Storage
JD29923-2.2	Benjamin Gaines	Secured Storage	08/17/21 13:01	Return to Storage
JD29923-2.2	Tyler Strong	Secured Staging Area	08/17/21 23:39	Return to Storage
stage				
JD29923-2.2	Secured Staging Area	Naisha Torres	08/18/21 06:00	Retrieve from Storage
JD29923-2.2	Naisha Torres	Secured Storage	08/18/21 08:58	Return to Storage
JD29923-2.2	Secured Staging Area	Alyssa Koshy	08/18/21 09:02	Retrieve from Storage
Analyst unavailable for custody transfer.				
JD29923-2.2	Alyssa Koshy	Secured Storage	08/18/21 12:28	Return to Storage
JD29923-2.2.1	Naisha Torres	Organics Prep	08/18/21 06:14	Extract from JD29923-2.2
JD29923-2.2.1	Organics Prep	Taylor Cavanaugh	08/18/21 15:17	Extract from JD29923-2.2
JD29923-2.2.1	Taylor Cavanaugh	Extract Storage	08/18/21 15:17	Return to Storage
JD29923-2.2.1	Extract Storage	Kristi Schollenberger	08/18/21 16:21	Retrieve from Storage
JD29923-2.2.1	Kristi Schollenberger	GCMSF	08/18/21 16:21	Load on Instrument
JD29923-2.2.1	GCMSF	Kristi Schollenberger	08/19/21 11:56	Unload from Instrument
JD29923-2.2.1	Kristi Schollenberger	Extract Freezer	08/19/21 11:56	Return to Storage
JD29923-2.2.2	Alyssa Koshy	Metals Digestion	08/18/21 11:18	Digestate from JD29923-2.2
JD29923-2.2.2	Metals Digestion	Alyssa Koshy	08/18/21 11:18	Digestate from JD29923-2.2
JD29923-2.2.2	Alyssa Koshy	Metals Digestate Storage	08/18/21 11:18	Return to Storage
JD29923-2.3	Secured Storage	Benjamin Kim	08/14/21 18:22	Retrieve from Storage
JD29923-2.3	Benjamin Kim		08/14/21 18:23	Depleted
JD29923-2.4	Secured Storage	Benjamin Kim	08/14/21 17:58	Retrieve from Storage
JD29923-2.4	Benjamin Kim	Secured Storage	08/14/21 17:58	Return to Storage
JD29923-2.5	Secured Storage	Benjamin Kim	08/14/21 17:58	Retrieve from Storage
JD29923-2.5	Benjamin Kim	Secured Storage	08/14/21 17:58	Return to Storage
JD29923-2.5	Secured Storage	Prashant Shukla	08/18/21 15:01	Retrieve from Storage
JD29923-2.5	Prashant Shukla	GCMS3C	08/18/21 15:01	Load on Instrument

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Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY
Received: 08/14/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29923-2.5	GCMS3C	Prashant Shukla	08/19/21 09:17	Unload from Instrument
JD29923-2.5	Prashant Shukla		08/19/21 09:18	Depleted
JD29923-2.6	Secured Storage	Benjamin Kim	08/14/21 17:58	Retrieve from Storage
JD29923-2.6	Benjamin Kim	Secured Storage	08/14/21 17:58	Return to Storage
JD29923-3.1	James Kwon	Secured Storage	08/14/21 16:04	Return to Storage
JD29923-3.1	Secured Storage	Todd Shoemaker	08/17/21 13:59	Retrieve from Storage
JD29923-3.1	Todd Shoemaker	Secured Staging Area	08/17/21 13:59	Return to Storage
JD29923-3.1	Secured Storage	Todd Shoemaker	08/18/21 10:43	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JD29923-3.1	Todd Shoemaker	Secured Staging Area	08/18/21 10:44	Return to Storage
JD29923-3.1	Secured Staging Area	Naomi Altenbur	08/18/21 12:35	Retrieve from Storage
JD29923-3.1	Naomi Altenbur	Secured Storage	08/18/21 17:18	Return to Storage
JD29923-3.1	Secured Storage	Taylor Gorman	08/19/21 06:33	Retrieve from Storage
JD29923-3.1	Taylor Gorman	Secured Storage	08/19/21 13:10	Return to Storage
JD29923-3.1.1	Taylor Gorman	Organics Prep	08/19/21 06:37	Extract from JD29923-3.1
JD29923-3.1.1	Organics Prep	Taylor Gorman	08/19/21 15:59	Extract from JD29923-3.1
JD29923-3.1.1	Taylor Gorman	Extract Storage	08/19/21 15:59	Return to Storage
JD29923-3.1.1	Extract Storage	Taylor Cavanaugh	08/19/21 17:05	Retrieve from Storage
JD29923-3.1.1	Taylor Cavanaugh	GC1G	08/19/21 17:05	Load on Instrument
JD29923-3.1.2	Taylor Gorman	Organics Prep	08/19/21 06:38	Extract from JD29923-3.1
JD29923-3.1.2	Organics Prep	Taylor Gorman	08/19/21 15:59	Extract from JD29923-3.1
JD29923-3.1.2	Taylor Gorman	Extract Storage	08/19/21 15:59	Return to Storage
JD29923-3.1.2	Extract Storage	Taylor Cavanaugh	08/19/21 16:39	Retrieve from Storage
JD29923-3.1.2	Taylor Cavanaugh	GCRK	08/19/21 16:39	Load on Instrument
JD29923-3.2	Dave Hunkele	Secured Storage	08/14/21 15:35	Return to Storage
JD29923-3.2	Secured Storage	Benjamin Gaines	08/16/21 10:42	Retrieve from Storage
JD29923-3.2	Benjamin Gaines	Secured Staging Area	08/16/21 10:42	Return to Storage
JD29923-3.2	Secured Staging Area	Benjamin Gaines	08/16/21 10:43	Retrieve from Storage
JD29923-3.2	Benjamin Gaines	Secured Storage	08/17/21 09:45	Return to Storage
JD29923-3.2	Secured Storage	Benjamin Gaines	08/17/21 10:24	Retrieve from Storage
JD29923-3.2	Benjamin Gaines	Secured Staging Area	08/17/21 10:24	Return to Storage
JD29923-3.2	Secured Staging Area	Benjamin Gaines	08/17/21 10:25	Retrieve from Storage
JD29923-3.2	Benjamin Gaines	Secured Storage	08/17/21 13:01	Return to Storage
JD29923-3.2	Tyler Strong	Secured Staging Area	08/17/21 23:39	Return to Storage
stage				
JD29923-3.2	Secured Staging Area	Naisha Torres	08/18/21 06:00	Retrieve from Storage
JD29923-3.2	Naisha Torres	Secured Storage	08/18/21 08:58	Return to Storage
JD29923-3.2	Secured Staging Area	Alyssa Koshy	08/18/21 09:02	Retrieve from Storage
Analyst unavailable for custody transfer.				

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Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY
Received: 08/14/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29923-3.2	Alyssa Koshy	Secured Storage	08/18/21 12:28	Return to Storage
JD29923-3.2.1	Naisha Torres	Organics Prep	08/18/21 06:14	Extract from JD29923-3.2
JD29923-3.2.1	Organics Prep	Taylor Cavanaugh	08/18/21 15:17	Extract from JD29923-3.2
JD29923-3.2.1	Taylor Cavanaugh	Extract Storage	08/18/21 15:17	Return to Storage
JD29923-3.2.1	Extract Storage	Kristi Schollenberger	08/18/21 16:21	Retrieve from Storage
JD29923-3.2.1	Kristi Schollenberger	GCMSF	08/18/21 16:21	Load on Instrument
JD29923-3.2.1	GCMSF	Kristi Schollenberger	08/19/21 11:56	Unload from Instrument
JD29923-3.2.1	Kristi Schollenberger	Extract Freezer	08/19/21 11:56	Return to Storage
JD29923-3.2.2	Alyssa Koshy	Metals Digestion	08/18/21 11:18	Digestate from JD29923-3.2
JD29923-3.2.2	Metals Digestion	Alyssa Koshy	08/18/21 11:18	Digestate from JD29923-3.2
JD29923-3.2.2	Alyssa Koshy	Metals Digestate Storage	08/18/21 11:18	Return to Storage
JD29923-3.3	Secured Storage	Benjamin Kim	08/14/21 18:22	Retrieve from Storage
JD29923-3.3	Benjamin Kim		08/14/21 18:23	Depleted
JD29923-3.4	Secured Storage	Benjamin Kim	08/14/21 17:58	Retrieve from Storage
JD29923-3.4	Benjamin Kim	Secured Storage	08/14/21 17:58	Return to Storage
JD29923-3.5	Secured Storage	Benjamin Kim	08/14/21 17:58	Retrieve from Storage
JD29923-3.5	Benjamin Kim	Secured Storage	08/14/21 17:58	Return to Storage
JD29923-3.5	Secured Storage	Prashant Shukla	08/18/21 15:01	Retrieve from Storage
JD29923-3.5	Prashant Shukla	GCMS3C	08/18/21 15:01	Load on Instrument
JD29923-3.5	GCMS3C	Prashant Shukla	08/19/21 09:17	Unload from Instrument
JD29923-3.5	Prashant Shukla		08/19/21 09:18	Depleted
JD29923-3.6	Secured Storage	Benjamin Kim	08/14/21 17:58	Retrieve from Storage
JD29923-3.6	Benjamin Kim	Secured Storage	08/14/21 17:58	Return to Storage
JD29923-4.1	James Kwon	Secured Storage	08/14/21 16:04	Return to Storage
JD29923-4.1	Secured Storage	Todd Shoemaker	08/17/21 13:59	Retrieve from Storage
JD29923-4.1	Todd Shoemaker	Secured Staging Area	08/17/21 13:59	Return to Storage
JD29923-4.1	Secured Storage	Todd Shoemaker	08/18/21 10:43	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JD29923-4.1	Todd Shoemaker	Secured Staging Area	08/18/21 10:44	Return to Storage
JD29923-4.1	Secured Staging Area	Naomi Altenbur	08/18/21 12:35	Retrieve from Storage
JD29923-4.1	Naomi Altenbur	Secured Storage	08/18/21 17:18	Return to Storage
JD29923-4.1	Secured Storage	Taylor Gorman	08/19/21 06:33	Retrieve from Storage
JD29923-4.1	Taylor Gorman	Secured Storage	08/19/21 13:10	Return to Storage
JD29923-4.1.1	Taylor Gorman	Organics Prep	08/19/21 06:37	Extract from JD29923-4.1
JD29923-4.1.1	Organics Prep	Taylor Gorman	08/19/21 15:59	Extract from JD29923-4.1
JD29923-4.1.1	Taylor Gorman	Extract Storage	08/19/21 15:59	Return to Storage

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Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY
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Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29923-4.1.1	Extract Storage	Taylor Cavanaugh	08/19/21 17:05	Retrieve from Storage
JD29923-4.1.1	Taylor Cavanaugh	GC1G	08/19/21 17:05	Load on Instrument
JD29923-4.1.2	Taylor Gorman	Organics Prep	08/19/21 06:38	Extract from JD29923-4.1
JD29923-4.1.2	Organics Prep	Taylor Gorman	08/19/21 15:59	Extract from JD29923-4.1
JD29923-4.1.2	Taylor Gorman	Extract Storage	08/19/21 15:59	Return to Storage
JD29923-4.1.2	Extract Storage	Taylor Cavanaugh	08/19/21 16:39	Retrieve from Storage
JD29923-4.1.2	Taylor Cavanaugh	GCRK	08/19/21 16:39	Load on Instrument
JD29923-4.2	Dave Hunkele	Secured Storage	08/14/21 15:35	Return to Storage
JD29923-4.2	Secured Storage	Benjamin Gaines	08/16/21 10:42	Retrieve from Storage
JD29923-4.2	Benjamin Gaines	Secured Staging Area	08/16/21 10:42	Return to Storage
JD29923-4.2	Secured Staging Area	Benjamin Gaines	08/16/21 10:43	Retrieve from Storage
JD29923-4.2	Benjamin Gaines	Secured Storage	08/17/21 09:45	Return to Storage
JD29923-4.2	Secured Storage	Benjamin Gaines	08/17/21 10:24	Retrieve from Storage
JD29923-4.2	Benjamin Gaines	Secured Staging Area	08/17/21 10:24	Return to Storage
JD29923-4.2	Secured Staging Area	Benjamin Gaines	08/17/21 10:25	Retrieve from Storage
JD29923-4.2	Benjamin Gaines	Secured Storage	08/17/21 13:01	Return to Storage
JD29923-4.2	Tyler Strong	Secured Staging Area	08/17/21 23:39	Return to Storage
stage				
JD29923-4.2	Secured Staging Area	Naisha Torres	08/18/21 06:00	Retrieve from Storage
JD29923-4.2	Naisha Torres	Secured Storage	08/18/21 08:58	Return to Storage
JD29923-4.2	Secured Staging Area	Alyssa Koshy	08/18/21 09:02	Retrieve from Storage
Analyst unavailable for custody transfer.				
JD29923-4.2	Alyssa Koshy	Secured Storage	08/18/21 12:28	Return to Storage
JD29923-4.2.1	Naisha Torres	Organics Prep	08/18/21 06:14	Extract from JD29923-4.2
JD29923-4.2.1	Organics Prep	Taylor Cavanaugh	08/18/21 15:17	Extract from JD29923-4.2
JD29923-4.2.1	Taylor Cavanaugh	Extract Storage	08/18/21 15:17	Return to Storage
JD29923-4.2.1	Extract Storage	Kristi Schollenberger	08/18/21 16:21	Retrieve from Storage
JD29923-4.2.1	Kristi Schollenberger	GCMSF	08/18/21 16:21	Load on Instrument
JD29923-4.2.1	GCMSF	Kristi Schollenberger	08/19/21 11:56	Unload from Instrument
JD29923-4.2.1	Kristi Schollenberger	Extract Freezer	08/19/21 11:56	Return to Storage
JD29923-4.2.2	Alyssa Koshy	Metals Digestion	08/18/21 11:18	Digestate from JD29923-4.2
JD29923-4.2.2	Metals Digestion	Alyssa Koshy	08/18/21 11:18	Digestate from JD29923-4.2
JD29923-4.2.2	Alyssa Koshy	Metals Digestate Storage	08/18/21 11:18	Return to Storage
JD29923-4.3	Secured Storage	Benjamin Kim	08/14/21 18:22	Retrieve from Storage
JD29923-4.3	Benjamin Kim		08/14/21 18:23	Depleted
JD29923-4.4	Secured Storage	Benjamin Kim	08/14/21 17:58	Retrieve from Storage
JD29923-4.4	Benjamin Kim	Secured Storage	08/14/21 17:58	Return to Storage

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Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY
Received: 08/14/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29923-4.5	Secured Storage	Benjamin Kim	08/14/21 17:58	Retrieve from Storage
JD29923-4.5	Benjamin Kim	Secured Storage	08/14/21 17:58	Return to Storage
JD29923-4.5	Secured Storage	Prashant Shukla	08/18/21 15:01	Retrieve from Storage
JD29923-4.5	Prashant Shukla	GCMS3C	08/18/21 15:01	Load on Instrument
JD29923-4.5	GCMS3C	Prashant Shukla	08/19/21 09:17	Unload from Instrument
JD29923-4.5	Prashant Shukla		08/19/21 09:18	Depleted
JD29923-4.6	Secured Storage	Benjamin Kim	08/14/21 17:58	Retrieve from Storage
JD29923-4.6	Benjamin Kim	Secured Storage	08/14/21 17:58	Return to Storage
JD29923-5.1	James Kwon	Secured Storage	08/14/21 16:04	Return to Storage
JD29923-5.1	Secured Storage	Todd Shoemaker	08/17/21 13:59	Retrieve from Storage
JD29923-5.1	Todd Shoemaker	Secured Staging Area	08/17/21 13:59	Return to Storage
JD29923-5.1	Secured Storage	Todd Shoemaker	08/18/21 10:43	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JD29923-5.1	Todd Shoemaker	Secured Staging Area	08/18/21 10:44	Return to Storage
JD29923-5.1	Secured Staging Area	Naomi Altenbur	08/18/21 12:35	Retrieve from Storage
JD29923-5.1	Naomi Altenbur	Secured Storage	08/18/21 17:18	Return to Storage
JD29923-5.1	Secured Storage	Taylor Gorman	08/19/21 06:33	Retrieve from Storage
JD29923-5.1	Taylor Gorman	Secured Storage	08/19/21 13:10	Return to Storage
JD29923-5.1.1	Taylor Gorman	Organics Prep	08/19/21 06:37	Extract from JD29923-5.1
JD29923-5.1.1	Organics Prep	Taylor Gorman	08/19/21 15:59	Extract from JD29923-5.1
JD29923-5.1.1	Taylor Gorman	Extract Storage	08/19/21 15:59	Return to Storage
JD29923-5.1.1	Extract Storage	Taylor Cavanaugh	08/19/21 17:05	Retrieve from Storage
JD29923-5.1.1	Taylor Cavanaugh	GC1G	08/19/21 17:05	Load on Instrument
JD29923-5.1.2	Taylor Gorman	Organics Prep	08/19/21 06:38	Extract from JD29923-5.1
JD29923-5.1.2	Organics Prep	Taylor Gorman	08/19/21 15:59	Extract from JD29923-5.1
JD29923-5.1.2	Taylor Gorman	Extract Storage	08/19/21 15:59	Return to Storage
JD29923-5.1.2	Extract Storage	Taylor Cavanaugh	08/19/21 16:39	Retrieve from Storage
JD29923-5.1.2	Taylor Cavanaugh	GCRK	08/19/21 16:39	Load on Instrument
JD29923-5.2	Dave Hunkele	Secured Storage	08/14/21 15:35	Return to Storage
JD29923-5.2	Secured Storage	Benjamin Gaines	08/16/21 10:42	Retrieve from Storage
JD29923-5.2	Benjamin Gaines	Secured Staging Area	08/16/21 10:42	Return to Storage
JD29923-5.2	Secured Staging Area	Benjamin Gaines	08/16/21 10:43	Retrieve from Storage
JD29923-5.2	Benjamin Gaines	Secured Storage	08/17/21 09:45	Return to Storage
JD29923-5.2	Secured Storage	Benjamin Gaines	08/17/21 10:24	Retrieve from Storage
JD29923-5.2	Benjamin Gaines	Secured Staging Area	08/17/21 10:24	Return to Storage
JD29923-5.2	Secured Staging Area	Benjamin Gaines	08/17/21 10:25	Retrieve from Storage
JD29923-5.2	Benjamin Gaines	Secured Storage	08/17/21 13:01	Return to Storage
JD29923-5.2	Tyler Strong	Secured Staging Area	08/17/21 23:39	Return to Storage
stage				

SGS Internal Chain of Custody

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
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Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29923-5.2	Secured Staging Area	Naisha Torres	08/18/21 06:00	Retrieve from Storage
JD29923-5.2	Naisha Torres	Secured Storage	08/18/21 08:58	Return to Storage
JD29923-5.2	Secured Staging Area	Alyssa Koshy	08/18/21 09:02	Retrieve from Storage
Analyst unavailable for custody transfer.				
JD29923-5.2	Alyssa Koshy	Secured Storage	08/18/21 12:28	Return to Storage
JD29923-5.2.1	Naisha Torres	Organics Prep	08/18/21 06:14	Extract from JD29923-5.2
JD29923-5.2.1	Organics Prep	Taylor Cavanaugh	08/18/21 15:17	Extract from JD29923-5.2
JD29923-5.2.1	Taylor Cavanaugh	Extract Storage	08/18/21 15:17	Return to Storage
JD29923-5.2.1	Extract Storage	Kristi Schollenberger	08/18/21 16:21	Retrieve from Storage
JD29923-5.2.1	Kristi Schollenberger	GCMSF	08/18/21 16:21	Load on Instrument
JD29923-5.2.1	GCMSF	Kristi Schollenberger	08/19/21 11:56	Unload from Instrument
JD29923-5.2.1	Kristi Schollenberger	Extract Freezer	08/19/21 11:56	Return to Storage
JD29923-5.2.2	Alyssa Koshy	Metals Digestion	08/18/21 11:18	Digestate from JD29923-5.2
JD29923-5.2.2	Metals Digestion	Alyssa Koshy	08/18/21 11:18	Digestate from JD29923-5.2
JD29923-5.2.2	Alyssa Koshy	Metals Digestate Storage	08/18/21 11:18	Return to Storage
JD29923-5.3	Secured Storage	Benjamin Kim	08/14/21 18:22	Retrieve from Storage
JD29923-5.3	Benjamin Kim		08/14/21 18:23	Depleted
JD29923-5.4	Secured Storage	Benjamin Kim	08/14/21 17:58	Retrieve from Storage
JD29923-5.4	Benjamin Kim	Secured Storage	08/14/21 17:58	Return to Storage
JD29923-5.5	Secured Storage	Benjamin Kim	08/14/21 17:58	Retrieve from Storage
JD29923-5.5	Benjamin Kim	Secured Storage	08/14/21 17:58	Return to Storage
JD29923-5.5	Secured Storage	Prashant Shukla	08/18/21 15:01	Retrieve from Storage
JD29923-5.5	Prashant Shukla	GCMS3C	08/18/21 15:01	Load on Instrument
JD29923-5.5	GCMS3C	Prashant Shukla	08/19/21 09:17	Unload from Instrument
JD29923-5.5	Prashant Shukla		08/19/21 09:18	Depleted
JD29923-5.6	Secured Storage	Benjamin Kim	08/14/21 17:58	Retrieve from Storage
JD29923-5.6	Benjamin Kim	Secured Storage	08/14/21 17:58	Return to Storage
JD29923-6.1	James Kwon	Secured Storage	08/14/21 16:04	Return to Storage
JD29923-6.1	Secured Storage	Todd Shoemaker	08/17/21 13:59	Retrieve from Storage
JD29923-6.1	Todd Shoemaker	Secured Staging Area	08/17/21 13:59	Return to Storage
JD29923-6.1	Secured Storage	Todd Shoemaker	08/18/21 10:43	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JD29923-6.1	Todd Shoemaker	Secured Staging Area	08/18/21 10:44	Return to Storage
JD29923-6.1	Secured Staging Area	Naomi Altenbur	08/18/21 12:35	Retrieve from Storage
JD29923-6.1	Naomi Altenbur	Secured Storage	08/18/21 17:18	Return to Storage
JD29923-6.1	Secured Storage	Taylor Gorman	08/19/21 06:33	Retrieve from Storage
JD29923-6.1	Taylor Gorman	Secured Storage	08/19/21 13:10	Return to Storage

SGS Internal Chain of Custody

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY
Received: 08/14/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29923-6.1.1	Taylor Gorman	Organics Prep	08/19/21 06:37	Extract from JD29923-6.1
JD29923-6.1.1	Organics Prep	Taylor Gorman	08/19/21 15:59	Extract from JD29923-6.1
JD29923-6.1.1	Taylor Gorman	Extract Storage	08/19/21 15:59	Return to Storage
JD29923-6.1.1	Extract Storage	Taylor Cavanaugh	08/19/21 17:05	Retrieve from Storage
JD29923-6.1.1	Taylor Cavanaugh	GC1G	08/19/21 17:05	Load on Instrument
JD29923-6.1.2	Taylor Gorman	Organics Prep	08/19/21 06:38	Extract from JD29923-6.1
JD29923-6.1.2	Organics Prep	Taylor Gorman	08/19/21 15:59	Extract from JD29923-6.1
JD29923-6.1.2	Taylor Gorman	Extract Storage	08/19/21 15:59	Return to Storage
JD29923-6.1.2	Extract Storage	Taylor Cavanaugh	08/19/21 16:39	Retrieve from Storage
JD29923-6.1.2	Taylor Cavanaugh	GCRK	08/19/21 16:39	Load on Instrument
JD29923-6.2	Dave Hunkele	Secured Storage	08/14/21 15:35	Return to Storage
JD29923-6.2	Secured Storage	Benjamin Gaines	08/16/21 10:42	Retrieve from Storage
JD29923-6.2	Benjamin Gaines	Secured Staging Area	08/16/21 10:42	Return to Storage
JD29923-6.2	Secured Staging Area	Benjamin Gaines	08/16/21 10:43	Retrieve from Storage
JD29923-6.2	Benjamin Gaines	Secured Storage	08/17/21 09:45	Return to Storage
JD29923-6.2	Secured Storage	Benjamin Gaines	08/17/21 10:24	Retrieve from Storage
JD29923-6.2	Benjamin Gaines	Secured Staging Area	08/17/21 10:24	Return to Storage
JD29923-6.2	Secured Staging Area	Benjamin Gaines	08/17/21 10:25	Retrieve from Storage
JD29923-6.2	Benjamin Gaines	Secured Storage	08/17/21 13:01	Return to Storage
JD29923-6.2	Tyler Strong	Secured Staging Area	08/17/21 23:39	Return to Storage
stage				
JD29923-6.2	Secured Staging Area	Naisha Torres	08/18/21 06:00	Retrieve from Storage
JD29923-6.2	Naisha Torres	Secured Storage	08/18/21 08:58	Return to Storage
JD29923-6.2	Secured Staging Area	Alyssa Koshy	08/18/21 09:02	Retrieve from Storage
Analyst unavailable for custody transfer.				
JD29923-6.2	Alyssa Koshy	Secured Storage	08/18/21 12:28	Return to Storage
JD29923-6.2.1	Naisha Torres	Organics Prep	08/18/21 06:14	Extract from JD29923-6.2
JD29923-6.2.1	Organics Prep	Taylor Cavanaugh	08/18/21 15:17	Extract from JD29923-6.2
JD29923-6.2.1	Taylor Cavanaugh	Extract Storage	08/18/21 15:17	Return to Storage
JD29923-6.2.1	Extract Storage	Kristi Schollenberger	08/18/21 16:21	Retrieve from Storage
JD29923-6.2.1	Kristi Schollenberger	GCMSF	08/18/21 16:21	Load on Instrument
JD29923-6.2.1	GCMSF	Kristi Schollenberger	08/19/21 11:56	Unload from Instrument
JD29923-6.2.1	Kristi Schollenberger	Extract Freezer	08/19/21 11:56	Return to Storage
JD29923-6.2.2	Alyssa Koshy	Metals Digestion	08/18/21 11:18	Digestate from JD29923-6.2
JD29923-6.2.2	Metals Digestion	Alyssa Koshy	08/18/21 11:18	Digestate from JD29923-6.2
JD29923-6.2.2	Alyssa Koshy	Metals Digestate Storage	08/18/21 11:18	Return to Storage
JD29923-6.3	Secured Storage	Benjamin Kim	08/14/21 18:22	Retrieve from Storage
JD29923-6.3	Benjamin Kim		08/14/21 18:23	Depleted

SGS Internal Chain of Custody

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY
Received: 08/14/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29923-6.4	Secured Storage	Benjamin Kim	08/14/21 17:58	Retrieve from Storage
JD29923-6.4	Benjamin Kim	Secured Storage	08/14/21 17:58	Return to Storage
JD29923-6.5	Secured Storage	Benjamin Kim	08/14/21 17:58	Retrieve from Storage
JD29923-6.5	Benjamin Kim	Secured Storage	08/14/21 17:58	Return to Storage
JD29923-6.5	Secured Storage	Prashant Shukla	08/18/21 15:01	Retrieve from Storage
JD29923-6.5	Prashant Shukla	GCMS3C	08/18/21 15:01	Load on Instrument
JD29923-6.5	GCMS3C	Prashant Shukla	08/19/21 09:17	Unload from Instrument
JD29923-6.5	Prashant Shukla		08/19/21 09:18	Depleted
JD29923-6.6	Secured Storage	Benjamin Kim	08/14/21 17:58	Retrieve from Storage
JD29923-6.6	Benjamin Kim	Secured Storage	08/14/21 17:58	Return to Storage
JD29923-7.1	James Kwon	Secured Storage	08/14/21 16:04	Return to Storage
JD29923-7.1	Secured Storage	Todd Shoemaker	08/17/21 13:59	Retrieve from Storage
JD29923-7.1	Todd Shoemaker	Secured Staging Area	08/17/21 13:59	Return to Storage
JD29923-7.1	Secured Storage	Todd Shoemaker	08/18/21 10:43	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JD29923-7.1	Todd Shoemaker	Secured Staging Area	08/18/21 10:44	Return to Storage
JD29923-7.1	Secured Staging Area	Naomi Altenbur	08/18/21 12:35	Retrieve from Storage
JD29923-7.1	Naomi Altenbur	Secured Storage	08/18/21 17:18	Return to Storage
JD29923-7.1	Secured Storage	Taylor Gorman	08/19/21 06:33	Retrieve from Storage
JD29923-7.1	Taylor Gorman	Secured Storage	08/19/21 13:10	Return to Storage
JD29923-7.1.1	Taylor Gorman	Organics Prep	08/19/21 06:37	Extract from JD29923-7.1
JD29923-7.1.1	Organics Prep	Taylor Gorman	08/19/21 15:59	Extract from JD29923-7.1
JD29923-7.1.1	Taylor Gorman	Extract Storage	08/19/21 15:59	Return to Storage
JD29923-7.1.1	Extract Storage	Taylor Cavanaugh	08/19/21 17:05	Retrieve from Storage
JD29923-7.1.1	Taylor Cavanaugh	GC1G	08/19/21 17:05	Load on Instrument
JD29923-7.1.2	Taylor Gorman	Organics Prep	08/19/21 06:38	Extract from JD29923-7.1
JD29923-7.1.2	Organics Prep	Taylor Gorman	08/19/21 15:59	Extract from JD29923-7.1
JD29923-7.1.2	Taylor Gorman	Extract Storage	08/19/21 15:59	Return to Storage
JD29923-7.1.2	Extract Storage	Taylor Cavanaugh	08/19/21 16:39	Retrieve from Storage
JD29923-7.1.2	Taylor Cavanaugh	GCRK	08/19/21 16:39	Load on Instrument
JD29923-7.2	Dave Hunkele	Secured Storage	08/14/21 15:35	Return to Storage
JD29923-7.2	Secured Storage	Benjamin Gaines	08/16/21 10:42	Retrieve from Storage
JD29923-7.2	Benjamin Gaines	Secured Staging Area	08/16/21 10:42	Return to Storage
JD29923-7.2	Secured Staging Area	Benjamin Gaines	08/16/21 10:43	Retrieve from Storage
JD29923-7.2	Benjamin Gaines	Secured Storage	08/17/21 09:45	Return to Storage
JD29923-7.2	Secured Storage	Benjamin Gaines	08/17/21 10:24	Retrieve from Storage
JD29923-7.2	Benjamin Gaines	Secured Staging Area	08/17/21 10:24	Return to Storage

SGS Internal Chain of Custody

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY
Received: 08/14/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29923-7.2	Secured Staging Area	Benjamin Gaines	08/17/21 10:25	Retrieve from Storage
JD29923-7.2	Benjamin Gaines	Secured Storage	08/17/21 13:01	Return to Storage
JD29923-7.2	Tyler Strong	Secured Staging Area	08/17/21 23:39	Return to Storage
stage				
JD29923-7.2	Secured Staging Area	Naisha Torres	08/18/21 06:00	Retrieve from Storage
JD29923-7.2	Naisha Torres	Secured Storage	08/18/21 08:58	Return to Storage
JD29923-7.2	Secured Staging Area	Alyssa Koshy	08/18/21 09:02	Retrieve from Storage
Analyst unavailable for custody transfer.				
JD29923-7.2	Alyssa Koshy	Secured Storage	08/18/21 12:28	Return to Storage
JD29923-7.2.1	Naisha Torres	Organics Prep	08/18/21 06:14	Extract from JD29923-7.2
JD29923-7.2.1	Organics Prep	Taylor Cavanaugh	08/18/21 15:17	Extract from JD29923-7.2
JD29923-7.2.1	Taylor Cavanaugh	Extract Storage	08/18/21 15:17	Return to Storage
JD29923-7.2.1	Extract Storage	Kristi Schollenberger	08/18/21 16:21	Retrieve from Storage
JD29923-7.2.1	Kristi Schollenberger	GCMSF	08/18/21 16:21	Load on Instrument
JD29923-7.2.1	GCMSF	Kristi Schollenberger	08/19/21 11:56	Unload from Instrument
JD29923-7.2.1	Kristi Schollenberger	Extract Freezer	08/19/21 11:56	Return to Storage
JD29923-7.2.2	Alyssa Koshy	Metals Digestion	08/18/21 11:18	Digestate from JD29923-7.2
JD29923-7.2.2	Metals Digestion	Alyssa Koshy	08/18/21 11:18	Digestate from JD29923-7.2
JD29923-7.2.2	Alyssa Koshy	Metals Digestate Storage	08/18/21 11:18	Return to Storage
JD29923-7.3	Secured Storage	Benjamin Kim	08/14/21 18:22	Retrieve from Storage
JD29923-7.3	Benjamin Kim		08/14/21 18:23	Depleted
JD29923-7.4	Secured Storage	Benjamin Kim	08/14/21 17:58	Retrieve from Storage
JD29923-7.4	Benjamin Kim	Secured Storage	08/14/21 17:58	Return to Storage
JD29923-7.5	Secured Storage	Benjamin Kim	08/14/21 17:58	Retrieve from Storage
JD29923-7.5	Benjamin Kim	Secured Storage	08/14/21 17:58	Return to Storage
JD29923-7.5	Secured Storage	Prashant Shukla	08/19/21 11:42	Retrieve from Storage
JD29923-7.5	Prashant Shukla	GCMS1C	08/19/21 11:42	Load on Instrument
JD29923-7.5	GCMS1C	Prashant Shukla	08/21/21 11:18	Unload from Instrument
JD29923-7.5	Prashant Shukla		08/21/21 11:18	Depleted
JD29923-7.6	Secured Storage	Benjamin Kim	08/14/21 17:58	Retrieve from Storage
JD29923-7.6	Benjamin Kim	Secured Storage	08/14/21 17:58	Return to Storage
JD29923-8.1	James Kwon	Secured Storage	08/14/21 16:04	Return to Storage
JD29923-8.1	Secured Storage	Todd Shoemaker	08/17/21 13:59	Retrieve from Storage
JD29923-8.1	Todd Shoemaker	Secured Staging Area	08/17/21 13:59	Return to Storage
JD29923-8.1	Secured Storage	Todd Shoemaker	08/18/21 10:43	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JD29923-8.1	Todd Shoemaker	Secured Staging Area	08/18/21 10:44	Return to Storage

SGS Internal Chain of Custody

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY
Received: 08/14/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29923-8.1	Secured Staging Area	Naomi Altenbur	08/18/21 12:35	Retrieve from Storage
JD29923-8.1	Naomi Altenbur	Secured Storage	08/18/21 17:18	Return to Storage
JD29923-8.1	Secured Storage	Taylor Gorman	08/19/21 06:33	Retrieve from Storage
JD29923-8.1	Taylor Gorman	Secured Storage	08/19/21 13:10	Return to Storage
JD29923-8.1.1	Taylor Gorman	Organics Prep	08/19/21 06:37	Extract from JD29923-8.1
JD29923-8.1.1	Organics Prep	Taylor Gorman	08/19/21 15:59	Extract from JD29923-8.1
JD29923-8.1.1	Taylor Gorman	Extract Storage	08/19/21 15:59	Return to Storage
JD29923-8.1.1	Extract Storage	Taylor Cavanaugh	08/19/21 17:05	Retrieve from Storage
JD29923-8.1.1	Taylor Cavanaugh	GC1G	08/19/21 17:05	Load on Instrument
JD29923-8.1.2	Taylor Gorman	Organics Prep	08/19/21 06:38	Extract from JD29923-8.1
JD29923-8.1.2	Organics Prep	Taylor Gorman	08/19/21 15:59	Extract from JD29923-8.1
JD29923-8.1.2	Taylor Gorman	Extract Storage	08/19/21 15:59	Return to Storage
JD29923-8.1.2	Extract Storage	Taylor Cavanaugh	08/19/21 16:39	Retrieve from Storage
JD29923-8.1.2	Taylor Cavanaugh	GCRK	08/19/21 16:39	Load on Instrument
JD29923-8.2	Dave Hunkele	Secured Storage	08/14/21 15:35	Return to Storage
JD29923-8.2	Secured Storage	Benjamin Gaines	08/16/21 10:42	Retrieve from Storage
JD29923-8.2	Benjamin Gaines	Secured Staging Area	08/16/21 10:42	Return to Storage
JD29923-8.2	Secured Staging Area	Benjamin Gaines	08/16/21 10:43	Retrieve from Storage
JD29923-8.2	Benjamin Gaines	Secured Storage	08/16/21 16:43	Return to Storage
JD29923-8.2	Secured Storage	Benjamin Gaines	08/17/21 10:24	Retrieve from Storage
JD29923-8.2	Benjamin Gaines	Secured Staging Area	08/17/21 10:24	Return to Storage
JD29923-8.2	Secured Staging Area	Benjamin Gaines	08/17/21 10:25	Retrieve from Storage
JD29923-8.2	Benjamin Gaines	Secured Storage	08/17/21 13:01	Return to Storage
JD29923-8.2	Tyler Strong	Secured Staging Area	08/17/21 23:39	Return to Storage
stage				
JD29923-8.2	Secured Staging Area	Naisha Torres	08/18/21 06:00	Retrieve from Storage
JD29923-8.2	Naisha Torres	Secured Storage	08/18/21 08:58	Return to Storage
JD29923-8.2	Secured Staging Area	Alyssa Koshy	08/18/21 09:02	Retrieve from Storage
Analyst unavailable for custody transfer.				
JD29923-8.2	Alyssa Koshy	Secured Storage	08/18/21 12:28	Return to Storage
JD29923-8.2.1	Naisha Torres	Organics Prep	08/18/21 06:14	Extract from JD29923-8.2
JD29923-8.2.1	Organics Prep	Taylor Cavanaugh	08/18/21 15:17	Extract from JD29923-8.2
JD29923-8.2.1	Taylor Cavanaugh	Extract Storage	08/18/21 15:17	Return to Storage
JD29923-8.2.1	Extract Storage	Kristi Schollenberger	08/18/21 16:21	Retrieve from Storage
JD29923-8.2.1	Kristi Schollenberger	GCMSF	08/18/21 16:21	Load on Instrument
JD29923-8.2.1	GCMSF	Kristi Schollenberger	08/19/21 11:56	Unload from Instrument
JD29923-8.2.1	Kristi Schollenberger	Extract Freezer	08/19/21 11:56	Return to Storage
JD29923-8.2.2	Alyssa Koshy	Metals Digestion	08/18/21 11:18	Digestate from JD29923-8.2
JD29923-8.2.2	Metals Digestion	Alyssa Koshy	08/18/21 11:18	Digestate from JD29923-8.2

SGS Internal Chain of Custody

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY
Received: 08/14/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29923-8.2.2	Alyssa Koshy	Metals Digestate Storage	08/18/21 11:18	Return to Storage
JD29923-8.3	Secured Storage	Benjamin Kim	08/14/21 18:22	Retrieve from Storage
JD29923-8.3	Benjamin Kim		08/14/21 18:23	Depleted
JD29923-8.4	Secured Storage	Benjamin Kim	08/14/21 17:58	Retrieve from Storage
JD29923-8.4	Benjamin Kim	Secured Storage	08/14/21 17:58	Return to Storage
JD29923-8.5	Secured Storage	Benjamin Kim	08/14/21 17:58	Retrieve from Storage
JD29923-8.5	Benjamin Kim	Secured Storage	08/14/21 17:58	Return to Storage
JD29923-8.5	Secured Storage	Prashant Shukla	08/19/21 11:42	Retrieve from Storage
JD29923-8.5	Prashant Shukla	GCMS1C	08/19/21 11:42	Load on Instrument
JD29923-8.5	GCMS1C	Prashant Shukla	08/21/21 11:18	Unload from Instrument
JD29923-8.5	Prashant Shukla		08/21/21 11:18	Depleted
JD29923-8.6	Secured Storage	Benjamin Kim	08/14/21 17:58	Retrieve from Storage
JD29923-8.6	Benjamin Kim	Secured Storage	08/14/21 17:58	Return to Storage
JD29923-8.6	Secured Storage	Prashant Shukla	08/19/21 14:59	Retrieve from Storage
JD29923-8.6	Prashant Shukla	GCMS3C	08/19/21 14:59	Load on Instrument
JD29923-8.6	GCMS3C	Prashant Shukla	08/21/21 11:18	Unload from Instrument
JD29923-8.6	Prashant Shukla		08/21/21 11:18	Depleted
JD29923-9.2	Secured Storage	Jonathan Santos	08/19/21 16:29	Retrieve from Storage
JD29923-9.2	Jonathan Santos	GCMS4D	08/19/21 16:29	Load on Instrument
JD29923-9.2	GCMS4D	Jonathan Santos	08/20/21 09:27	Unload from Instrument
JD29923-9.2	Jonathan Santos	Secured Storage	08/20/21 09:27	Return to Storage

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7855-MB	1C180230.D	1	08/18/21	PS	n/a	n/a	V1C7855

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-1, JD29923-2, JD29923-3, JD29923-4, JD29923-5, JD29923-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	4.1	ug/kg	
71-43-2	Benzene	ND	0.50	0.46	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.56	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.43	ug/kg	
75-25-2	Bromoform	ND	5.0	1.4	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.76	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	0.54	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.62	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.46	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.59	ug/kg	
67-66-3	Chloroform	ND	2.0	0.52	ug/kg	
74-87-3	Chloromethane	ND	5.0	2.0	ug/kg	
110-82-7	Cyclohexane	ND	2.0	0.66	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.56	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.42	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.55	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.49	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.73	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.47	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.66	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.61	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.47	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.48	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.46	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.45	ug/kg	
76-13-1	Freon 113	ND	5.0	2.7	ug/kg	
591-78-6	2-Hexanone	ND	5.0	2.1	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	1.4	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/kg	
108-87-2	Methylcyclohexane	ND	2.0	0.88	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.47	ug/kg	

Method Blank Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7855-MB	1C180230.D	1	08/18/21	PS	n/a	n/a	V1C7855

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-1, JD29923-2, JD29923-3, JD29923-4, JD29923-5, JD29923-6

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	2.3	ug/kg	
75-09-2	Methylene chloride	ND	5.0	2.6	ug/kg	
100-42-5	Styrene	ND	2.0	0.40	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.60	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.58	ug/kg	
108-88-3	Toluene	ND	1.0	0.53	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	2.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	2.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.48	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.55	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.76	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.68	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.48	ug/kg	
	m,p-Xylene	ND	1.0	0.90	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.46	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.46	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	72-130%
17060-07-0	1,2-Dichloroethane-D4	106%	75-131%
2037-26-5	Toluene-D8	104%	81-121%
460-00-4	4-Bromofluorobenzene	100%	60-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7856-MB	1C180259.D	1	08/19/21	PS	n/a	n/a	V1C7856

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-7

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	4.1	ug/kg	
71-43-2	Benzene	ND	0.50	0.46	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.56	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.43	ug/kg	
75-25-2	Bromoform	ND	5.0	1.4	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.76	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	0.54	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.62	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.46	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.59	ug/kg	
67-66-3	Chloroform	ND	2.0	0.52	ug/kg	
74-87-3	Chloromethane	ND	5.0	2.0	ug/kg	
110-82-7	Cyclohexane	ND	2.0	0.66	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.56	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.42	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.55	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.49	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.73	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.47	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.66	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.61	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.47	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.48	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.46	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.45	ug/kg	
76-13-1	Freon 113	ND	5.0	2.7	ug/kg	
591-78-6	2-Hexanone	ND	5.0	2.1	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	1.4	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/kg	
108-87-2	Methylcyclohexane	ND	2.0	0.88	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.47	ug/kg	

Method Blank Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7856-MB	1C180259.D	1	08/19/21	PS	n/a	n/a	V1C7856

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-7

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	2.3	ug/kg	
75-09-2	Methylene chloride	ND	5.0	2.6	ug/kg	
100-42-5	Styrene	ND	2.0	0.40	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.60	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.58	ug/kg	
108-88-3	Toluene	ND	1.0	0.53	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	2.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	2.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.48	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.55	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.76	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.68	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.48	ug/kg	
	m,p-Xylene	ND	1.0	0.90	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.46	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.46	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	72-130%
17060-07-0	1,2-Dichloroethane-D4	105%	75-131%
2037-26-5	Toluene-D8	104%	81-121%
460-00-4	4-Bromofluorobenzene	99%	60-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D4985-MB	4D111916.D	1	08/19/21	JS	n/a	n/a	V4D4985

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-9

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	

Method Blank Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D4985-MB	4D111916.D	1	08/19/21	JS	n/a	n/a	V4D4985

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-9

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	85-118%
17060-07-0	1,2-Dichloroethane-D4	113%	80-121%
2037-26-5	Toluene-D8	98%	80-120%
460-00-4	4-Bromofluorobenzene	96%	80-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C7462-MB	3C168624.D	1	08/19/21	PS	n/a	n/a	V3C7462

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-8

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	4.1	ug/kg	
71-43-2	Benzene	ND	0.50	0.46	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.56	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.43	ug/kg	
75-25-2	Bromoform	ND	5.0	1.4	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.76	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	0.54	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.62	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.46	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.59	ug/kg	
67-66-3	Chloroform	ND	2.0	0.52	ug/kg	
74-87-3	Chloromethane	ND	5.0	2.0	ug/kg	
110-82-7	Cyclohexane	ND	2.0	0.66	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.56	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.42	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.55	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.49	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.73	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.47	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.66	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.61	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.47	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.48	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.46	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.45	ug/kg	
76-13-1	Freon 113	ND	5.0	2.7	ug/kg	
591-78-6	2-Hexanone	ND	5.0	2.1	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	1.4	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/kg	
108-87-2	Methylcyclohexane	ND	2.0	0.88	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.47	ug/kg	

Method Blank Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C7462-MB	3C168624.D	1	08/19/21	PS	n/a	n/a	V3C7462

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-8

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	2.3	ug/kg	
75-09-2	Methylene chloride	ND	5.0	2.6	ug/kg	
100-42-5	Styrene	ND	2.0	0.40	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.60	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.58	ug/kg	
108-88-3	Toluene	ND	1.0	0.53	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	2.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	2.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.48	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.55	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.76	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.68	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.48	ug/kg	
	m,p-Xylene	ND	1.0	0.90	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.46	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.46	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	95%	72-130%
17060-07-0	1,2-Dichloroethane-D4	95%	75-131%
2037-26-5	Toluene-D8	100%	81-121%
460-00-4	4-Bromofluorobenzene	106%	60-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Blank Spike Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7855-BS	1C180228.D	1	08/18/21	PS	n/a	n/a	V1C7855

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-1, JD29923-2, JD29923-3, JD29923-4, JD29923-5, JD29923-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	200	184	92	67-130
71-43-2	Benzene	50	47.4	95	80-115
74-97-5	Bromochloromethane	50	47.5	95	82-121
75-27-4	Bromodichloromethane	50	49.2	98	83-121
75-25-2	Bromoform	50	48.8	98	80-141
74-83-9	Bromomethane	50	39.5	79	56-146
78-93-3	2-Butanone (MEK)	200	209	105	72-134
75-15-0	Carbon disulfide	50	47.3	95	65-125
56-23-5	Carbon tetrachloride	50	50.7	101	75-126
108-90-7	Chlorobenzene	50	46.7	93	81-115
75-00-3	Chloroethane	50	46.2	92	72-133
67-66-3	Chloroform	50	48.6	97	75-114
74-87-3	Chloromethane	50	41.9	84	57-135
110-82-7	Cyclohexane	50	43.9	88	73-126
96-12-8	1,2-Dibromo-3-chloropropane	50	50.9	102	72-129
124-48-1	Dibromochloromethane	50	49.9	100	82-133
106-93-4	1,2-Dibromoethane	50	49.9	100	81-126
95-50-1	1,2-Dichlorobenzene	50	47.5	95	83-114
541-73-1	1,3-Dichlorobenzene	50	47.3	95	81-112
106-46-7	1,4-Dichlorobenzene	50	45.3	91	79-113
75-71-8	Dichlorodifluoromethane	50	39.1	78	50-150
75-34-3	1,1-Dichloroethane	50	52.2	104	75-120
107-06-2	1,2-Dichloroethane	50	46.9	94	72-117
75-35-4	1,1-Dichloroethene	50	45.3	91	69-124
156-59-2	cis-1,2-Dichloroethene	50	47.4	95	73-119
156-60-5	trans-1,2-Dichloroethene	50	46.4	93	70-123
78-87-5	1,2-Dichloropropane	50	49.7	99	80-118
10061-01-5	cis-1,3-Dichloropropene	50	48.9	98	83-121
10061-02-6	trans-1,3-Dichloropropene	50	52.6	105	83-125
100-41-4	Ethylbenzene	50	45.9	92	80-114
76-13-1	Freon 113	50	48.2	96	69-130
591-78-6	2-Hexanone	200	198	99	77-126
98-82-8	Isopropylbenzene	50	46.4	93	76-121
79-20-9	Methyl Acetate	50	50.5	101	63-132
108-87-2	Methylcyclohexane	50	45.6	91	73-125
1634-04-4	Methyl Tert Butyl Ether	50	52.1	104	76-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7855-BS	1C180228.D	1	08/18/21	PS	n/a	n/a	V1C7855

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-1, JD29923-2, JD29923-3, JD29923-4, JD29923-5, JD29923-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	200	187	94	75-129
75-09-2	Methylene chloride	50	48.2	96	71-120
100-42-5	Styrene	50	46.5	93	83-118
79-34-5	1,1,2,2-Tetrachloroethane	50	45.9	92	76-120
127-18-4	Tetrachloroethene	50	47.8	96	75-125
108-88-3	Toluene	50	46.7	93	79-115
87-61-6	1,2,3-Trichlorobenzene	50	49.4	99	75-131
120-82-1	1,2,4-Trichlorobenzene	50	49.0	98	76-130
71-55-6	1,1,1-Trichloroethane	50	51.1	102	77-122
79-00-5	1,1,2-Trichloroethane	50	49.2	98	82-119
79-01-6	Trichloroethene	50	48.2	96	82-119
75-69-4	Trichlorofluoromethane	50	46.5	93	70-134
75-01-4	Vinyl chloride	50	44.5	89	60-139
	m,p-Xylene	100	92.8	93	81-115
95-47-6	o-Xylene	50	46.8	94	82-117
1330-20-7	Xylene (total)	150	140	93	81-116

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	72-130%
17060-07-0	1,2-Dichloroethane-D4	106%	75-131%
2037-26-5	Toluene-D8	104%	81-121%
460-00-4	4-Bromofluorobenzene	100%	60-141%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7856-BS	1C180257.D	1	08/19/21	PS	n/a	n/a	V1C7856

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	200	176	88	67-130
71-43-2	Benzene	50	41.6	83	80-115
74-97-5	Bromochloromethane	50	43.5	87	82-121
75-27-4	Bromodichloromethane	50	44.6	89	83-121
75-25-2	Bromoform	50	45.1	90	80-141
74-83-9	Bromomethane	50	38.0	76	56-146
78-93-3	2-Butanone (MEK)	200	194	97	72-134
75-15-0	Carbon disulfide	50	41.3	83	65-125
56-23-5	Carbon tetrachloride	50	43.8	88	75-126
108-90-7	Chlorobenzene	50	42.0	84	81-115
75-00-3	Chloroethane	50	41.5	83	72-133
67-66-3	Chloroform	50	43.1	86	75-114
74-87-3	Chloromethane	50	39.3	79	57-135
110-82-7	Cyclohexane	50	39.5	79	73-126
96-12-8	1,2-Dibromo-3-chloropropane	50	46.5	93	72-129
124-48-1	Dibromochloromethane	50	46.2	92	82-133
106-93-4	1,2-Dibromoethane	50	46.2	92	81-126
95-50-1	1,2-Dichlorobenzene	50	42.0	84	83-114
541-73-1	1,3-Dichlorobenzene	50	42.2	84	81-112
106-46-7	1,4-Dichlorobenzene	50	40.1	80	79-113
75-71-8	Dichlorodifluoromethane	50	35.9	72	50-150
75-34-3	1,1-Dichloroethane	50	45.8	92	75-120
107-06-2	1,2-Dichloroethane	50	42.7	85	72-117
75-35-4	1,1-Dichloroethene	50	39.9	80	69-124
156-59-2	cis-1,2-Dichloroethene	50	41.7	83	73-119
156-60-5	trans-1,2-Dichloroethene	50	40.9	82	70-123
78-87-5	1,2-Dichloropropane	50	44.4	89	80-118
10061-01-5	cis-1,3-Dichloropropene	50	43.8	88	83-121
10061-02-6	trans-1,3-Dichloropropene	50	47.5	95	83-125
100-41-4	Ethylbenzene	50	40.0	80	80-114
76-13-1	Freon 113	50	43.4	87	69-130
591-78-6	2-Hexanone	200	183	92	77-126
98-82-8	Isopropylbenzene	50	41.0	82	76-121
79-20-9	Methyl Acetate	50	45.9	92	63-132
108-87-2	Methylcyclohexane	50	39.7	79	73-125
1634-04-4	Methyl Tert Butyl Ether	50	48.6	97	76-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7856-BS	1C180257.D	1	08/19/21	PS	n/a	n/a	V1C7856

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	200	172	86	75-129
75-09-2	Methylene chloride	50	42.9	86	71-120
100-42-5	Styrene	50	41.4	83	83-118
79-34-5	1,1,2,2-Tetrachloroethane	50	41.9	84	76-120
127-18-4	Tetrachloroethene	50	41.5	83	75-125
108-88-3	Toluene	50	41.5	83	79-115
87-61-6	1,2,3-Trichlorobenzene	50	45.4	91	75-131
120-82-1	1,2,4-Trichlorobenzene	50	44.4	89	76-130
71-55-6	1,1,1-Trichloroethane	50	44.4	89	77-122
79-00-5	1,1,2-Trichloroethane	50	45.4	91	82-119
79-01-6	Trichloroethene	50	42.4	85	82-119
75-69-4	Trichlorofluoromethane	50	42.2	84	70-134
75-01-4	Vinyl chloride	50	40.7	81	60-139
	m,p-Xylene	100	81.4	81	81-115
95-47-6	o-Xylene	50	41.9	84	82-117
1330-20-7	Xylene (total)	150	123	82	81-116

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	105%	72-130%
17060-07-0	1,2-Dichloroethane-D4	106%	75-131%
2037-26-5	Toluene-D8	103%	81-121%
460-00-4	4-Bromofluorobenzene	99%	60-141%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D4985-BS	4D111914.D	1	08/19/21	JS	n/a	n/a	V4D4985

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	245	123	63-137
71-43-2	Benzene	50	51.0	102	78-117
74-97-5	Bromochloromethane	50	49.2	98	83-124
75-27-4	Bromodichloromethane	50	52.1	104	83-123
75-25-2	Bromoform	50	49.3	99	80-140
74-83-9	Bromomethane	50	38.6	77	26-167
78-93-3	2-Butanone (MEK)	200	212	106	73-135
75-15-0	Carbon disulfide	50	43.0	86	60-131
56-23-5	Carbon tetrachloride	50	55.1	110	75-127
108-90-7	Chlorobenzene	50	46.2	92	83-115
75-00-3	Chloroethane	50	43.5	87	61-135
67-66-3	Chloroform	50	50.1	100	76-118
74-87-3	Chloromethane	50	41.6	83	46-144
110-82-7	Cyclohexane	50	41.5	83	67-128
96-12-8	1,2-Dibromo-3-chloropropane	50	46.7	93	75-135
124-48-1	Dibromochloromethane	50	48.9	98	84-128
106-93-4	1,2-Dibromoethane	50	52.1	104	82-129
95-50-1	1,2-Dichlorobenzene	50	46.8	94	85-117
541-73-1	1,3-Dichlorobenzene	50	46.1	92	83-116
106-46-7	1,4-Dichlorobenzene	50	46.6	93	82-115
75-71-8	Dichlorodifluoromethane	50	27.9	56	49-153
75-34-3	1,1-Dichloroethane	50	54.2	108	75-122
107-06-2	1,2-Dichloroethane	50	53.5	107	74-116
75-35-4	1,1-Dichloroethene	50	45.1	90	68-129
156-59-2	cis-1,2-Dichloroethene	50	47.4	95	78-120
156-60-5	trans-1,2-Dichloroethene	50	45.8	92	74-125
78-87-5	1,2-Dichloropropane	50	51.7	103	80-120
10061-01-5	cis-1,3-Dichloropropene	50	51.1	102	84-123
10061-02-6	trans-1,3-Dichloropropene	50	49.4	99	84-124
100-41-4	Ethylbenzene	50	47.8	96	80-115
76-13-1	Freon 113	50	46.6	93	66-136
591-78-6	2-Hexanone	200	183	92	74-132
98-82-8	Isopropylbenzene	50	49.2	98	79-120
79-20-9	Methyl Acetate	50	53.1	106	65-133
108-87-2	Methylcyclohexane	50	47.3	95	67-136
1634-04-4	Methyl Tert Butyl Ether	50	50.6	101	77-124

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D4985-BS	4D111914.D	1	08/19/21	JS	n/a	n/a	V4D4985

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	200	186	93	77-129
75-09-2	Methylene chloride	50	48.8	98	74-125
100-42-5	Styrene	50	49.3	99	83-122
79-34-5	1,1,2,2-Tetrachloroethane	50	43.5	87	78-122
127-18-4	Tetrachloroethene	50	48.3	97	75-125
108-88-3	Toluene	50	46.8	94	80-115
87-61-6	1,2,3-Trichlorobenzene	50	50.2	100	73-140
120-82-1	1,2,4-Trichlorobenzene	50	53.2	106	77-137
71-55-6	1,1,1-Trichloroethane	50	54.4	109	77-124
79-00-5	1,1,2-Trichloroethane	50	48.1	96	83-118
79-01-6	Trichloroethene	50	47.5	95	80-123
75-69-4	Trichlorofluoromethane	50	46.0	92	71-134
75-01-4	Vinyl chloride	50	41.7	83	56-138
	m,p-Xylene	100	96.8	97	81-118
95-47-6	o-Xylene	50	48.1	96	81-119
1330-20-7	Xylene (total)	150	145	97	81-118

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	85-118%
17060-07-0	1,2-Dichloroethane-D4	111%	80-121%
2037-26-5	Toluene-D8	95%	80-120%
460-00-4	4-Bromofluorobenzene	94%	80-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C7462-BS	3C168622.D	1	08/19/21	PS	n/a	n/a	V3C7462

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	200	197	99	67-130
71-43-2	Benzene	50	51.1	102	80-115
74-97-5	Bromochloromethane	50	48.0	96	82-121
75-27-4	Bromodichloromethane	50	47.1	94	83-121
75-25-2	Bromoform	50	46.0	92	80-141
74-83-9	Bromomethane	50	32.2	64	56-146
78-93-3	2-Butanone (MEK)	200	219	110	72-134
75-15-0	Carbon disulfide	50	45.5	91	65-125
56-23-5	Carbon tetrachloride	50	41.9	84	75-126
108-90-7	Chlorobenzene	50	48.6	97	81-115
75-00-3	Chloroethane	50	50.4	101	72-133
67-66-3	Chloroform	50	44.9	90	75-114
74-87-3	Chloromethane	50	51.6	103	57-135
110-82-7	Cyclohexane	50	49.9	100	73-126
96-12-8	1,2-Dibromo-3-chloropropane	50	49.0	98	72-129
124-48-1	Dibromochloromethane	50	45.9	92	82-133
106-93-4	1,2-Dibromoethane	50	49.1	98	81-126
95-50-1	1,2-Dichlorobenzene	50	47.5	95	83-114
541-73-1	1,3-Dichlorobenzene	50	46.7	93	81-112
106-46-7	1,4-Dichlorobenzene	50	46.2	92	79-113
75-71-8	Dichlorodifluoromethane	50	38.9	78	50-150
75-34-3	1,1-Dichloroethane	50	52.7	105	75-120
107-06-2	1,2-Dichloroethane	50	43.2	86	72-117
75-35-4	1,1-Dichloroethene	50	50.5	101	69-124
156-59-2	cis-1,2-Dichloroethene	50	49.7	99	73-119
156-60-5	trans-1,2-Dichloroethene	50	49.8	100	70-123
78-87-5	1,2-Dichloropropane	50	53.9	108	80-118
10061-01-5	cis-1,3-Dichloropropene	50	53.5	107	83-121
10061-02-6	trans-1,3-Dichloropropene	50	49.9	100	83-125
100-41-4	Ethylbenzene	50	49.3	99	80-114
76-13-1	Freon 113	50	44.3	89	69-130
591-78-6	2-Hexanone	200	232	116	77-126
98-82-8	Isopropylbenzene	50	48.7	97	76-121
79-20-9	Methyl Acetate	50	52.2	104	63-132
108-87-2	Methylcyclohexane	50	49.3	99	73-125
1634-04-4	Methyl Tert Butyl Ether	50	48.6	97	76-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C7462-BS	3C168622.D	1	08/19/21	PS	n/a	n/a	V3C7462

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	200	222	111	75-129
75-09-2	Methylene chloride	50	48.9	98	71-120
100-42-5	Styrene	50	50.1	100	83-118
79-34-5	1,1,2,2-Tetrachloroethane	50	52.2	104	76-120
127-18-4	Tetrachloroethene	50	46.7	93	75-125
108-88-3	Toluene	50	51.2	102	79-115
87-61-6	1,2,3-Trichlorobenzene	50	47.7	95	75-131
120-82-1	1,2,4-Trichlorobenzene	50	47.4	95	76-130
71-55-6	1,1,1-Trichloroethane	50	46.0	92	77-122
79-00-5	1,1,2-Trichloroethane	50	51.4	103	82-119
79-01-6	Trichloroethene	50	47.1	94	82-119
75-69-4	Trichlorofluoromethane	50	42.6	85	70-134
75-01-4	Vinyl chloride	50	51.6	103	60-139
	m,p-Xylene	100	99.5	100	81-115
95-47-6	o-Xylene	50	50.1	100	82-117
1330-20-7	Xylene (total)	150	150	100	81-116

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	72-130%
17060-07-0	1,2-Dichloroethane-D4	95%	75-131%
2037-26-5	Toluene-D8	103%	81-121%
460-00-4	4-Bromofluorobenzene	107%	60-141%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD29908-2MS	1C180237.D	1	08/18/21	PS	n/a	n/a	V1C7855
JD29908-2	1C180232.D	1	08/18/21	PS	n/a	n/a	V1C7855

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-1, JD29923-2, JD29923-3, JD29923-4, JD29923-5, JD29923-6

CAS No.	Compound	JD29908-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
67-64-1	Acetone	8.7	J	197	169	82	31-142
71-43-2	Benzene	ND		49.2	45.8	93	62-126
74-97-5	Bromochloromethane	ND		49.2	46.9	95	68-125
75-27-4	Bromodichloromethane	ND		49.2	48.0	98	63-132
75-25-2	Bromoform	ND		49.2	43.3	88	59-138
74-83-9	Bromomethane	ND		49.2	38.0	77	13-164
78-93-3	2-Butanone (MEK)	ND		197	184	94	51-135
75-15-0	Carbon disulfide	ND		49.2	45.2	92	49-134
56-23-5	Carbon tetrachloride	ND		49.2	49.3	100	60-133
108-90-7	Chlorobenzene	ND		49.2	42.9	87	58-126
75-00-3	Chloroethane	ND		49.2	45.3	92	18-165
67-66-3	Chloroform	ND		49.2	48.4	98	60-125
74-87-3	Chloromethane	ND		49.2	40.9	83	43-145
110-82-7	Cyclohexane	ND		49.2	40.8	83	50-136
96-12-8	1,2-Dibromo-3-chloropropane	ND		49.2	39.6	81	43-133
124-48-1	Dibromochloromethane	ND		49.2	46.6	95	68-131
106-93-4	1,2-Dibromoethane	ND		49.2	45.5	93	63-127
95-50-1	1,2-Dichlorobenzene	ND		49.2	38.6	79	46-130
541-73-1	1,3-Dichlorobenzene	ND		49.2	38.7	79	45-129
106-46-7	1,4-Dichlorobenzene	ND		49.2	36.9	75	43-129
75-71-8	Dichlorodifluoromethane	ND		49.2	38.3	78	35-157
75-34-3	1,1-Dichloroethane	ND		49.2	51.6	105	63-130
107-06-2	1,2-Dichloroethane	ND		49.2	46.2	94	61-118
75-35-4	1,1-Dichloroethene	ND		49.2	43.9	89	55-135
156-59-2	cis-1,2-Dichloroethene	ND		49.2	46.5	95	55-131
156-60-5	trans-1,2-Dichloroethene	ND		49.2	45.7	93	54-135
78-87-5	1,2-Dichloropropane	ND		49.2	48.5	99	68-123
10061-01-5	cis-1,3-Dichloropropene	ND		49.2	45.4	92	65-123
10061-02-6	trans-1,3-Dichloropropene	ND		49.2	47.6	97	63-128
100-41-4	Ethylbenzene	ND		49.2	41.6	85	48-135
76-13-1	Freon 113	ND		49.2	45.2	92	51-138
591-78-6	2-Hexanone	ND		197	170	86	55-127
98-82-8	Isopropylbenzene	ND		49.2	40.9	83	46-139
79-20-9	Methyl Acetate	ND		49.2	52.8	107	28-170
108-87-2	Methylcyclohexane	ND		49.2	36.9	75	33-145
1634-04-4	Methyl Tert Butyl Ether	ND		49.2	51.1	104	62-128

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD29908-2MS	1C180237.D	1	08/18/21	PS	n/a	n/a	V1C7855
JD29908-2	1C180232.D	1	08/18/21	PS	n/a	n/a	V1C7855

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-1, JD29923-2, JD29923-3, JD29923-4, JD29923-5, JD29923-6

CAS No.	Compound	JD29908-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		197	160	81	59-125
75-09-2	Methylene chloride	ND		49.2	47.6	97	59-127
100-42-5	Styrene	ND		49.2	42.2	86	52-136
79-34-5	1,1,2,2-Tetrachloroethane	ND		49.2	38.5	78	53-127
127-18-4	Tetrachloroethene	ND		49.2	42.5	86	50-138
108-88-3	Toluene	ND		49.2	43.6	89	57-129
87-61-6	1,2,3-Trichlorobenzene	ND		49.2	30.0	61	13-152
120-82-1	1,2,4-Trichlorobenzene	ND		49.2	30.4	62	15-153
71-55-6	1,1,1-Trichloroethane	ND		49.2	49.9	101	60-134
79-00-5	1,1,2-Trichloroethane	ND		49.2	46.3	94	56-137
79-01-6	Trichloroethene	ND		49.2	46.0	94	52-144
75-69-4	Trichlorofluoromethane	ND		49.2	46.0	94	48-144
75-01-4	Vinyl chloride	ND		49.2	42.8	87	44-152
	m,p-Xylene	ND		98.3	84.0	85	53-130
95-47-6	o-Xylene	ND		49.2	43.2	88	52-135
1330-20-7	Xylene (total)	ND		147	127	86	54-131

CAS No.	Surrogate Recoveries	MS	JD29908-2	Limits
1868-53-7	Dibromofluoromethane	109%	108%	72-130%
17060-07-0	1,2-Dichloroethane-D4	107%	114%	75-131%
2037-26-5	Toluene-D8	103%	104%	81-121%
460-00-4	4-Bromofluorobenzene	100%	100%	60-141%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD30038-1MS	3C168630.D	1	08/19/21	PS	n/a	n/a	V3C7462
JD30038-1	3C168625.D	1	08/19/21	PS	n/a	n/a	V3C7462

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-8

CAS No.	Compound	JD30038-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
67-64-1	Acetone	ND		204	226	111	31-142
71-43-2	Benzene	ND		51	58.0	114	62-126
74-97-5	Bromochloromethane	ND		51	54.9	108	68-125
75-27-4	Bromodichloromethane	ND		51	53.2	104	63-132
75-25-2	Bromoform	ND		51	52.7	103	59-138
74-83-9	Bromomethane	ND		51	40.1	79	13-164
78-93-3	2-Butanone (MEK)	ND		204	264	129	51-135
75-15-0	Carbon disulfide	ND		51	51.3	101	49-134
56-23-5	Carbon tetrachloride	ND		51	46.7	92	60-133
108-90-7	Chlorobenzene	ND		51	52.9	104	58-126
75-00-3	Chloroethane	ND		51	57.8	113	18-165
67-66-3	Chloroform	ND		51	52.8	103	60-125
74-87-3	Chloromethane	ND		51	59.8	117	43-145
110-82-7	Cyclohexane	ND		51	52.6	103	50-136
96-12-8	1,2-Dibromo-3-chloropropane	ND		51	56.2	110	43-133
124-48-1	Dibromochloromethane	ND		51	52.2	102	68-131
106-93-4	1,2-Dibromoethane	ND		51	56.3	110	63-127
95-50-1	1,2-Dichlorobenzene	ND		51	49.7	97	46-130
541-73-1	1,3-Dichlorobenzene	ND		51	47.8	94	45-129
106-46-7	1,4-Dichlorobenzene	ND		51	47.2	93	43-129
75-71-8	Dichlorodifluoromethane	ND		51	43.9	86	35-157
75-34-3	1,1-Dichloroethane	ND		51	60.4	118	63-130
107-06-2	1,2-Dichloroethane	ND		51	50.3	99	61-118
75-35-4	1,1-Dichloroethene	ND		51	56.5	111	55-135
156-59-2	cis-1,2-Dichloroethene	ND		51	57.4	113	55-131
156-60-5	trans-1,2-Dichloroethene	ND		51	56.2	110	54-135
78-87-5	1,2-Dichloropropane	ND		51	62.1	122	68-123
10061-01-5	cis-1,3-Dichloropropene	ND		51	59.4	116	65-123
10061-02-6	trans-1,3-Dichloropropene	ND		51	55.3	108	63-128
100-41-4	Ethylbenzene	ND		51	52.5	103	48-135
76-13-1	Freon 113	ND		51	47.7	94	51-138
591-78-6	2-Hexanone	ND		204	278	136* [a]	55-127
98-82-8	Isopropylbenzene	ND		51	50.0	98	46-139
79-20-9	Methyl Acetate	ND		51	76.2	149	28-170
108-87-2	Methylcyclohexane	ND		51	46.1	90	33-145
1634-04-4	Methyl Tert Butyl Ether	ND		51	59.0	116	62-128

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD30038-1MS	3C168630.D	1	08/19/21	PS	n/a	n/a	V3C7462
JD30038-1	3C168625.D	1	08/19/21	PS	n/a	n/a	V3C7462

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-8

CAS No.	Compound	JD30038-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		204	273	134* [a]	59-125
75-09-2	Methylene chloride	ND		51	56.7	111	59-127
100-42-5	Styrene	ND		51	54.4	107	52-136
79-34-5	1,1,2,2-Tetrachloroethane	ND		51	58.1	114	53-127
127-18-4	Tetrachloroethene	ND		51	49.7	97	50-138
108-88-3	Toluene	ND		51	56.0	110	57-129
87-61-6	1,2,3-Trichlorobenzene	ND		51	41.6	82	13-152
120-82-1	1,2,4-Trichlorobenzene	ND		51	41.6	82	15-153
71-55-6	1,1,1-Trichloroethane	ND		51	51.5	101	60-134
79-00-5	1,1,2-Trichloroethane	ND		51	59.0	116	56-137
79-01-6	Trichloroethene	ND		51	55.3	108	52-144
75-69-4	Trichlorofluoromethane	ND		51	48.1	94	48-144
75-01-4	Vinyl chloride	ND		51	59.0	116	44-152
	m,p-Xylene	ND		102	107	105	53-130
95-47-6	o-Xylene	ND		51	53.9	106	52-135
1330-20-7	Xylene (total)	ND		153	160	105	54-131

CAS No.	Surrogate Recoveries	MS	JD30038-1	Limits
1868-53-7	Dibromofluoromethane	99%	99%	72-130%
17060-07-0	1,2-Dichloroethane-D4	98%	101%	75-131%
2037-26-5	Toluene-D8	102%	100%	81-121%
460-00-4	4-Bromofluorobenzene	108%	107%	60-141%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD30019-1MS	1C180267.D	1	08/19/21	PS	n/a	n/a	V1C7856
JD30019-1	1C180263.D	1	08/19/21	PS	n/a	n/a	V1C7856

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-7

CAS No.	Compound	JD30019-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
67-64-1	Acetone	ND		197	150	76	31-142
71-43-2	Benzene	ND		49.3	44.7	91	62-126
74-97-5	Bromochloromethane	ND		49.3	45.8	93	68-125
75-27-4	Bromodichloromethane	ND		49.3	47.4	96	63-132
75-25-2	Bromoform	ND		49.3	45.3	92	59-138
74-83-9	Bromomethane	ND		49.3	38.4	78	13-164
78-93-3	2-Butanone (MEK)	ND		197	175	89	51-135
75-15-0	Carbon disulfide	ND		49.3	43.5	88	49-134
56-23-5	Carbon tetrachloride	ND		49.3	47.9	97	60-133
108-90-7	Chlorobenzene	ND		49.3	44.0	89	58-126
75-00-3	Chloroethane	ND		49.3	44.3	90	18-165
67-66-3	Chloroform	ND		49.3	46.0	93	60-125
74-87-3	Chloromethane	ND		49.3	40.6	82	43-145
110-82-7	Cyclohexane	ND		49.3	41.8	85	50-136
96-12-8	1,2-Dibromo-3-chloropropane	ND		49.3	43.6	88	43-133
124-48-1	Dibromochloromethane	ND		49.3	47.5	96	68-131
106-93-4	1,2-Dibromoethane	ND		49.3	46.6	95	63-127
95-50-1	1,2-Dichlorobenzene	ND		49.3	43.8	89	46-130
541-73-1	1,3-Dichlorobenzene	ND		49.3	43.7	89	45-129
106-46-7	1,4-Dichlorobenzene	ND		49.3	41.8	85	43-129
75-71-8	Dichlorodifluoromethane	ND		49.3	37.2	75	35-157
75-34-3	1,1-Dichloroethane	ND		49.3	48.7	99	63-130
107-06-2	1,2-Dichloroethane	ND		49.3	45.4	92	61-118
75-35-4	1,1-Dichloroethene	ND		49.3	42.5	86	55-135
156-59-2	cis-1,2-Dichloroethene	ND		49.3	44.7	91	55-131
156-60-5	trans-1,2-Dichloroethene	ND		49.3	43.4	88	54-135
78-87-5	1,2-Dichloropropane	ND		49.3	46.8	95	68-123
10061-01-5	cis-1,3-Dichloropropene	ND		49.3	45.5	92	65-123
10061-02-6	trans-1,3-Dichloropropene	ND		49.3	48.0	97	63-128
100-41-4	Ethylbenzene	ND		49.3	41.8	85	48-135
76-13-1	Freon 113	ND		49.3	44.5	90	51-138
591-78-6	2-Hexanone	ND		197	169	86	55-127
98-82-8	Isopropylbenzene	ND		49.3	42.4	86	46-139
79-20-9	Methyl Acetate	ND		49.3	42.7	87	28-170
108-87-2	Methylcyclohexane	ND		49.3	39.8	81	33-145
1634-04-4	Methyl Tert Butyl Ether	ND		49.3	49.2	100	62-128

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD30019-1MS	1C180267.D	1	08/19/21	PS	n/a	n/a	V1C7856
JD30019-1	1C180263.D	1	08/19/21	PS	n/a	n/a	V1C7856

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-7

CAS No.	Compound	JD30019-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		197	164	83	59-125
75-09-2	Methylene chloride	ND		49.3	45.1	91	59-127
100-42-5	Styrene	ND		49.3	43.4	88	52-136
79-34-5	1,1,2,2-Tetrachloroethane	ND		49.3	39.0	79	53-127
127-18-4	Tetrachloroethene	ND		49.3	42.6	86	50-138
108-88-3	Toluene	ND		49.3	42.8	87	57-129
87-61-6	1,2,3-Trichlorobenzene	ND		49.3	46.0	93	13-152
120-82-1	1,2,4-Trichlorobenzene	ND		49.3	44.9	91	15-153
71-55-6	1,1,1-Trichloroethane	ND		49.3	48.4	98	60-134
79-00-5	1,1,2-Trichloroethane	ND		49.3	45.1	91	56-137
79-01-6	Trichloroethene	ND		49.3	46.7	95	52-144
75-69-4	Trichlorofluoromethane	ND		49.3	44.8	91	48-144
75-01-4	Vinyl chloride	ND		49.3	42.0	85	44-152
	m,p-Xylene	ND		98.6	84.2	85	53-130
95-47-6	o-Xylene	ND		49.3	43.6	88	52-135
1330-20-7	Xylene (total)	ND		148	128	87	54-131

CAS No.	Surrogate Recoveries	MS	JD30019-1	Limits
1868-53-7	Dibromofluoromethane	106%	107%	72-130%
17060-07-0	1,2-Dichloroethane-D4	108%	112%	75-131%
2037-26-5	Toluene-D8	102%	105%	81-121%
460-00-4	4-Bromofluorobenzene	99%	100%	60-141%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD29818-21MS	4D111924.D	1	08/19/21	JS	n/a	n/a	V4D4985
JD29818-21	4D111920.D	1	08/19/21	JS	n/a	n/a	V4D4985

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-9

CAS No.	Compound	JD29818-21 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
67-64-1	Acetone	6.1	J	200	181	87	52-133
71-43-2	Benzene	ND		50	48.2	96	55-129
74-97-5	Bromochloromethane	ND		50	44.7	89	75-122
75-27-4	Bromodichloromethane	ND		50	49.2	98	74-123
75-25-2	Bromoform	ND		50	47.1	94	69-135
74-83-9	Bromomethane	ND		50	21.5	43	11-167
78-93-3	2-Butanone (MEK)	7.3	J	200	189	91	64-131
75-15-0	Carbon disulfide	ND		50	41.6	83	54-137
56-23-5	Carbon tetrachloride	ND		50	55.2	110	68-132
108-90-7	Chlorobenzene	ND		50	43.9	88	71-119
75-00-3	Chloroethane	ND		50	41.9	84	50-146
67-66-3	Chloroform	ND		50	47.3	95	67-120
74-87-3	Chloromethane	ND		50	36.3	73	42-146
110-82-7	Cyclohexane	ND		50	40.3	81	56-147
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	41.1	82	65-130
124-48-1	Dibromochloromethane	ND		50	46.9	94	74-125
106-93-4	1,2-Dibromoethane	ND		50	37.7	75	74-125
95-50-1	1,2-Dichlorobenzene	ND		50	44.3	89	73-117
541-73-1	1,3-Dichlorobenzene	ND		50	43.8	88	73-117
106-46-7	1,4-Dichlorobenzene	ND		50	43.4	87	70-117
75-71-8	Dichlorodifluoromethane	ND		50	26.0	52	46-169
75-34-3	1,1-Dichloroethane	ND		50	51.9	104	66-124
107-06-2	1,2-Dichloroethane	ND		50	51.3	103	66-115
75-35-4	1,1-Dichloroethene	ND		50	43.0	86	60-136
156-59-2	cis-1,2-Dichloroethene	7.0		50	52.5	91	55-133
156-60-5	trans-1,2-Dichloroethene	ND		50	44.3	89	67-127
78-87-5	1,2-Dichloropropane	ND		50	46.9	94	72-120
10061-01-5	cis-1,3-Dichloropropene	ND		50	49.1	98	75-123
10061-02-6	trans-1,3-Dichloropropene	ND		50	46.2	92	73-122
100-41-4	Ethylbenzene	ND		50	46.3	93	44-136
76-13-1	Freon 113	ND		50	46.7	93	61-148
591-78-6	2-Hexanone	ND		200	164	82	64-129
98-82-8	Isopropylbenzene	ND		50	48.9	98	71-122
79-20-9	Methyl Acetate	ND		50	46.8	94	55-127
108-87-2	Methylcyclohexane	ND		50	45.1	90	58-148
1634-04-4	Methyl Tert Butyl Ether	ND		50	46.9	94	64-122

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD29818-21MS	4D111924.D	1	08/19/21	JS	n/a	n/a	V4D4985
JD29818-21	4D111920.D	1	08/19/21	JS	n/a	n/a	V4D4985

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-9

CAS No.	Compound	JD29818-21 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		200	169	85	68-128
75-09-2	Methylene chloride	ND		50	44.8	90	65-126
100-42-5	Styrene	ND		50	47.2	94	73-124
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	39.8	80	68-120
127-18-4	Tetrachloroethene	ND		50	49.2	98	61-134
108-88-3	Toluene	2.5		50	47.9	91	54-130
87-61-6	1,2,3-Trichlorobenzene	ND		50	48.0	96	64-135
120-82-1	1,2,4-Trichlorobenzene	ND		50	50.2	100	67-134
71-55-6	1,1,1-Trichloroethane	ND		50	53.6	107	66-130
79-00-5	1,1,2-Trichloroethane	ND		50	44.0	88	73-117
79-01-6	Trichloroethene	ND		50	45.2	90	56-139
75-69-4	Trichlorofluoromethane	ND		50	47.2	94	63-150
75-01-4	Vinyl chloride	3.1		50	44.1	82	48-148
	m,p-Xylene	ND		100	94.4	94	42-140
95-47-6	o-Xylene	ND		50	46.5	93	54-133
1330-20-7	Xylene (total)	ND		150	141	94	46-138

CAS No.	Surrogate Recoveries	MS	JD29818-21	Limits
1868-53-7	Dibromofluoromethane	101%	103%	85-118%
17060-07-0	1,2-Dichloroethane-D4	114%	114%	80-121%
2037-26-5	Toluene-D8	95%	98%	80-120%
460-00-4	4-Bromofluorobenzene	93%	98%	80-120%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD29908-4DUP	1C180238.D	1	08/18/21	PS	n/a	n/a	V1C7855
JD29908-4	1C180233.D	1	08/18/21	PS	n/a	n/a	V1C7855

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-1, JD29923-2, JD29923-3, JD29923-4, JD29923-5, JD29923-6

CAS No.	Compound	JD29908-4 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
67-64-1	Acetone	30.9		46.9		41	108
71-43-2	Benzene	ND		ND		nc	27
74-97-5	Bromochloromethane	ND		ND		nc	30
75-27-4	Bromodichloromethane	ND		ND		nc	22
75-25-2	Bromoform	ND		ND		nc	30
74-83-9	Bromomethane	ND		ND		nc	6
78-93-3	2-Butanone (MEK)	ND		ND		nc	32
75-15-0	Carbon disulfide	ND		ND		nc	31
56-23-5	Carbon tetrachloride	ND		ND		nc	30
108-90-7	Chlorobenzene	ND		ND		nc	30
75-00-3	Chloroethane	ND		ND		nc	0
67-66-3	Chloroform	ND		ND		nc	30
74-87-3	Chloromethane	ND		ND		nc	30
110-82-7	Cyclohexane	ND		ND		nc	24
96-12-8	1,2-Dibromo-3-chloropropane	ND		ND		nc	30
124-48-1	Dibromochloromethane	ND		ND		nc	1
106-93-4	1,2-Dibromoethane	ND		ND		nc	30
95-50-1	1,2-Dichlorobenzene	ND		ND		nc	30
541-73-1	1,3-Dichlorobenzene	ND		ND		nc	30
106-46-7	1,4-Dichlorobenzene	ND		ND		nc	2
75-71-8	Dichlorodifluoromethane	ND		ND		nc	30
75-34-3	1,1-Dichloroethane	ND		ND		nc	7
107-06-2	1,2-Dichloroethane	ND		ND		nc	7
75-35-4	1,1-Dichloroethene	ND		ND		nc	10
156-59-2	cis-1,2-Dichloroethene	ND		ND		nc	27
156-60-5	trans-1,2-Dichloroethene	ND		ND		nc	16
78-87-5	1,2-Dichloropropane	ND		ND		nc	30
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	30
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	30
100-41-4	Ethylbenzene	ND		ND		nc	36
76-13-1	Freon 113	ND		ND		nc	1
591-78-6	2-Hexanone	ND		ND		nc	30
98-82-8	Isopropylbenzene	ND		ND		nc	13
79-20-9	Methyl Acetate	ND		ND		nc	15
108-87-2	Methylcyclohexane	ND		ND		nc	28
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	11

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD29908-4DUP	1C180238.D	1	08/18/21	PS	n/a	n/a	V1C7855
JD29908-4	1C180233.D	1	08/18/21	PS	n/a	n/a	V1C7855

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-1, JD29923-2, JD29923-3, JD29923-4, JD29923-5, JD29923-6

CAS No.	Compound	JD29908-4 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		ND		nc	30
75-09-2	Methylene chloride	ND		ND		nc	31
100-42-5	Styrene	ND		ND		nc	30
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	30
127-18-4	Tetrachloroethene	ND		ND		nc	44
108-88-3	Toluene	ND		ND		nc	39
87-61-6	1,2,3-Trichlorobenzene	ND		ND		nc	30
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	30
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	9
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	30
79-01-6	Trichloroethene	ND		ND		nc	29
75-69-4	Trichlorofluoromethane	ND		ND		nc	30
75-01-4	Vinyl chloride	ND		ND		nc	14
	m,p-Xylene	ND		ND		nc	39
95-47-6	o-Xylene	ND		ND		nc	36
1330-20-7	Xylene (total)	ND		ND		nc	44

CAS No.	Surrogate Recoveries	DUP	JD29908-4	Limits
1868-53-7	Dibromofluoromethane	109%	108%	72-130%
17060-07-0	1,2-Dichloroethane-D4	114%	113%	75-131%
2037-26-5	Toluene-D8	103%	104%	81-121%
460-00-4	4-Bromofluorobenzene	101%	99%	60-141%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD30019-2DUP	1C180268.D	1	08/19/21	PS	n/a	n/a	V1C7856
JD30019-2	1C180264.D	1	08/19/21	PS	n/a	n/a	V1C7856

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-7

CAS No.	Compound	JD30019-2 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
67-64-1	Acetone	ND		ND		nc	108
71-43-2	Benzene	ND		ND		nc	27
74-97-5	Bromochloromethane	ND		ND		nc	30
75-27-4	Bromodichloromethane	ND		ND		nc	22
75-25-2	Bromoform	ND		ND		nc	30
74-83-9	Bromomethane	ND		ND		nc	6
78-93-3	2-Butanone (MEK)	ND		ND		nc	32
75-15-0	Carbon disulfide	ND		ND		nc	31
56-23-5	Carbon tetrachloride	ND		ND		nc	30
108-90-7	Chlorobenzene	ND		ND		nc	30
75-00-3	Chloroethane	ND		ND		nc	0
67-66-3	Chloroform	ND		ND		nc	30
74-87-3	Chloromethane	ND		ND		nc	30
110-82-7	Cyclohexane	ND		ND		nc	24
96-12-8	1,2-Dibromo-3-chloropropane	ND		ND		nc	30
124-48-1	Dibromochloromethane	ND		ND		nc	1
106-93-4	1,2-Dibromoethane	ND		ND		nc	30
95-50-1	1,2-Dichlorobenzene	ND		ND		nc	30
541-73-1	1,3-Dichlorobenzene	ND		ND		nc	30
106-46-7	1,4-Dichlorobenzene	ND		ND		nc	2
75-71-8	Dichlorodifluoromethane	ND		ND		nc	30
75-34-3	1,1-Dichloroethane	ND		ND		nc	7
107-06-2	1,2-Dichloroethane	ND		ND		nc	7
75-35-4	1,1-Dichloroethene	ND		ND		nc	10
156-59-2	cis-1,2-Dichloroethene	ND		ND		nc	27
156-60-5	trans-1,2-Dichloroethene	ND		ND		nc	16
78-87-5	1,2-Dichloropropane	ND		ND		nc	30
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	30
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	30
100-41-4	Ethylbenzene	ND		ND		nc	36
76-13-1	Freon 113	ND		ND		nc	1
591-78-6	2-Hexanone	ND		ND		nc	30
98-82-8	Isopropylbenzene	ND		ND		nc	13
79-20-9	Methyl Acetate	ND		ND		nc	15
108-87-2	Methylcyclohexane	ND		ND		nc	28
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	11

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD30019-2DUP	1C180268.D	1	08/19/21	PS	n/a	n/a	V1C7856
JD30019-2	1C180264.D	1	08/19/21	PS	n/a	n/a	V1C7856

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-7

CAS No.	Compound	JD30019-2 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		ND		nc	30
75-09-2	Methylene chloride	ND		ND		nc	31
100-42-5	Styrene	ND		ND		nc	30
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	30
127-18-4	Tetrachloroethene	ND		ND		nc	44
108-88-3	Toluene	ND		ND		nc	39
87-61-6	1,2,3-Trichlorobenzene	ND		ND		nc	30
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	30
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	9
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	30
79-01-6	Trichloroethene	ND		ND		nc	29
75-69-4	Trichlorofluoromethane	ND		ND		nc	30
75-01-4	Vinyl chloride	ND		ND		nc	14
	m,p-Xylene	ND		ND		nc	39
95-47-6	o-Xylene	ND		ND		nc	36
1330-20-7	Xylene (total)	ND		ND		nc	44

CAS No.	Surrogate Recoveries	DUP	JD30019-2	Limits
1868-53-7	Dibromofluoromethane	107%	107%	72-130%
17060-07-0	1,2-Dichloroethane-D4	112%	113%	75-131%
2037-26-5	Toluene-D8	104%	104%	81-121%
460-00-4	4-Bromofluorobenzene	101%	101%	60-141%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD30038-2DUP	3C168632.D	1	08/19/21	PS	n/a	n/a	V3C7462
JD30038-2	3C168626.D	1	08/19/21	PS	n/a	n/a	V3C7462

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-8

CAS No.	Compound	JD30038-2 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
67-64-1	Acetone	ND		ND		nc	108
71-43-2	Benzene	ND		ND		nc	27
74-97-5	Bromochloromethane	ND		ND		nc	30
75-27-4	Bromodichloromethane	ND		ND		nc	22
75-25-2	Bromoform	ND		ND		nc	30
74-83-9	Bromomethane	ND		ND		nc	6
78-93-3	2-Butanone (MEK)	ND		ND		nc	32
75-15-0	Carbon disulfide	ND		ND		nc	31
56-23-5	Carbon tetrachloride	ND		ND		nc	30
108-90-7	Chlorobenzene	ND		ND		nc	30
75-00-3	Chloroethane	ND		ND		nc	0
67-66-3	Chloroform	ND		ND		nc	30
74-87-3	Chloromethane	ND		ND		nc	30
110-82-7	Cyclohexane	ND		ND		nc	24
96-12-8	1,2-Dibromo-3-chloropropane	ND		ND		nc	30
124-48-1	Dibromochloromethane	ND		ND		nc	1
106-93-4	1,2-Dibromoethane	ND		ND		nc	30
95-50-1	1,2-Dichlorobenzene	ND		ND		nc	30
541-73-1	1,3-Dichlorobenzene	ND		ND		nc	30
106-46-7	1,4-Dichlorobenzene	ND		ND		nc	2
75-71-8	Dichlorodifluoromethane	ND		ND		nc	30
75-34-3	1,1-Dichloroethane	ND		ND		nc	7
107-06-2	1,2-Dichloroethane	ND		ND		nc	7
75-35-4	1,1-Dichloroethene	ND		ND		nc	10
156-59-2	cis-1,2-Dichloroethene	ND		ND		nc	27
156-60-5	trans-1,2-Dichloroethene	ND		ND		nc	16
78-87-5	1,2-Dichloropropane	ND		ND		nc	30
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	30
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	30
100-41-4	Ethylbenzene	ND		ND		nc	36
76-13-1	Freon 113	ND		ND		nc	1
591-78-6	2-Hexanone	ND		ND		nc	30
98-82-8	Isopropylbenzene	ND		ND		nc	13
79-20-9	Methyl Acetate	ND		ND		nc	15
108-87-2	Methylcyclohexane	ND		ND		nc	28
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	11

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD30038-2DUP	3C168632.D	1	08/19/21	PS	n/a	n/a	V3C7462
JD30038-2	3C168626.D	1	08/19/21	PS	n/a	n/a	V3C7462

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-8

CAS No.	Compound	JD30038-2 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		ND		nc	30
75-09-2	Methylene chloride	ND		ND		nc	31
100-42-5	Styrene	ND		ND		nc	30
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	30
127-18-4	Tetrachloroethene	ND		ND		nc	44
108-88-3	Toluene	ND		ND		nc	39
87-61-6	1,2,3-Trichlorobenzene	ND		ND		nc	30
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	30
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	9
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	30
79-01-6	Trichloroethene	ND		ND		nc	29
75-69-4	Trichlorofluoromethane	ND		ND		nc	30
75-01-4	Vinyl chloride	ND		ND		nc	14
	m,p-Xylene	ND		ND		nc	39
95-47-6	o-Xylene	ND		ND		nc	36
1330-20-7	Xylene (total)	ND		ND		nc	44

CAS No.	Surrogate Recoveries	DUP	JD30038-2	Limits
1868-53-7	Dibromofluoromethane	100%	100%	72-130%
17060-07-0	1,2-Dichloroethane-D4	101%	102%	75-131%
2037-26-5	Toluene-D8	100%	100%	81-121%
460-00-4	4-Bromofluorobenzene	105%	104%	60-141%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD29818-24DUP	4D111926.D	1	08/19/21	JS	n/a	n/a	V4D4985
JD29818-24	4D111921.D	1	08/19/21	JS	n/a	n/a	V4D4985

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-9

CAS No.	Compound	JD29818-24 ug/l	Q	DUP ug/l	Q	RPD	Limits
67-64-1	Acetone	ND		ND		nc	17
71-43-2	Benzene	ND		ND		nc	11
74-97-5	Bromochloromethane	ND		ND		nc	20
75-27-4	Bromodichloromethane	ND		ND		nc	10
75-25-2	Bromoform	ND		ND		nc	10
74-83-9	Bromomethane	ND		ND		nc	10
78-93-3	2-Butanone (MEK)	ND		ND		nc	10
75-15-0	Carbon disulfide	ND		ND		nc	10
56-23-5	Carbon tetrachloride	ND		ND		nc	8
108-90-7	Chlorobenzene	ND		ND		nc	10
75-00-3	Chloroethane	ND		ND		nc	10
67-66-3	Chloroform	ND		ND		nc	8
74-87-3	Chloromethane	ND		ND		nc	10
110-82-7	Cyclohexane	ND		ND		nc	13
96-12-8	1,2-Dibromo-3-chloropropane	ND		ND		nc	20
124-48-1	Dibromochloromethane	ND		ND		nc	10
106-93-4	1,2-Dibromoethane	ND		ND		nc	20
95-50-1	1,2-Dichlorobenzene	ND		ND		nc	10
541-73-1	1,3-Dichlorobenzene	ND		ND		nc	10
106-46-7	1,4-Dichlorobenzene	ND		ND		nc	10
75-71-8	Dichlorodifluoromethane	ND		ND		nc	20
75-34-3	1,1-Dichloroethane	ND		ND		nc	6
107-06-2	1,2-Dichloroethane	ND		ND		nc	10
75-35-4	1,1-Dichloroethene	ND		ND		nc	10
156-59-2	cis-1,2-Dichloroethene	0.78	J	0.88	J	12	13
156-60-5	trans-1,2-Dichloroethene	ND		ND		nc	10
78-87-5	1,2-Dichloropropane	ND		ND		nc	20
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	20
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	20
100-41-4	Ethylbenzene	ND		ND		nc	7
76-13-1	Freon 113	ND		ND		nc	10
591-78-6	2-Hexanone	ND		ND		nc	10
98-82-8	Isopropylbenzene	ND		ND		nc	8
79-20-9	Methyl Acetate	ND		ND		nc	20
108-87-2	Methylcyclohexane	ND		ND		nc	12
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	12

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD29818-24DUP	4D111926.D	1	08/19/21	JS	n/a	n/a	V4D4985
JD29818-24	4D111921.D	1	08/19/21	JS	n/a	n/a	V4D4985

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29923-9

CAS No.	Compound	JD29818-24 ug/l	Q	DUP ug/l	Q	RPD	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		ND		nc	10
75-09-2	Methylene chloride	ND		ND		nc	10
100-42-5	Styrene	ND		ND		nc	20
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	10
127-18-4	Tetrachloroethene	ND		ND		nc	10
108-88-3	Toluene	ND		ND		nc	10
87-61-6	1,2,3-Trichlorobenzene	ND		ND		nc	10
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	10
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	10
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	10
79-01-6	Trichloroethene	ND		ND		nc	12
75-69-4	Trichlorofluoromethane	ND		ND		nc	20
75-01-4	Vinyl chloride	ND		ND		nc	6
	m,p-Xylene	ND		ND		nc	6
95-47-6	o-Xylene	ND		ND		nc	4
1330-20-7	Xylene (total)	ND		ND		nc	8

CAS No.	Surrogate Recoveries	DUP	JD29818-24	Limits
1868-53-7	Dibromofluoromethane	102%	103%	85-118%
17060-07-0	1,2-Dichloroethane-D4	119%	120%	80-121%
2037-26-5	Toluene-D8	96%	98%	80-120%
460-00-4	4-Bromofluorobenzene	96%	93%	80-120%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample: V1C7827-BFB
Lab File ID: 1C179464.D
Instrument ID: GCMS1C
Injection Date: 07/15/21
Injection Time: 19:04

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.99 - 40.0% of mass 95	10860	16.2		Pass
75	30.0 - 60.0% of mass 95	29650	44.3		Pass
95	Base peak, 100% relative abundance	66877	100.0		Pass
96	5.0 - 9.0% of mass 95	4243	6.34		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	58986	88.2		Pass
175	5.0 - 9.0% of mass 174	4574	6.84	(7.75) [a]	Pass
176	95.0 - 101.0% of mass 174	57141	85.4	(96.9) [a]	Pass
177	5.0 - 9.0% of mass 176	3651	5.46	(6.39) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1C7827-IC7827	1C179465.D	07/15/21	19:34	00:30	Initial cal 0.2
V1C7827-IC7827	1C179466.D	07/15/21	20:01	00:57	Initial cal 0.5
V1C7827-IC7827	1C179467.D	07/15/21	20:28	01:24	Initial cal 1
V1C7827-IC7827	1C179468.D	07/15/21	20:56	01:52	Initial cal 2
V1C7827-IC7827	1C179469.D	07/15/21	21:23	02:19	Initial cal 4
V1C7827-IC7827	1C179470.D	07/15/21	21:50	02:46	Initial cal 8
V1C7827-IC7827	1C179471.D	07/15/21	22:17	03:13	Initial cal 20
V1C7827-ICC7827	1C179472.D	07/15/21	22:44	03:40	Initial cal 50
V1C7827-IC7827	1C179473.D	07/15/21	23:11	04:07	Initial cal 100
V1C7827-IC7827	1C179474.D	07/15/21	23:38	04:34	Initial cal 200
V1C7827-ICV7827	1C179477.D	07/16/21	01:00	05:56	Initial cal verification 50
V1C7827-ICV7827	1C179478.D	07/16/21	01:27	06:23	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample: V1C7827-BFB2
Lab File ID: 1C179480.D
Instrument ID: GCMS1C
Injection Date: 07/16/21
Injection Time: 11:04

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.99 - 40.0% of mass 95	12305	16.4		Pass
75	30.0 - 60.0% of mass 95	33320	44.4		Pass
95	Base peak, 100% relative abundance	74986	100.0		Pass
96	5.0 - 9.0% of mass 95	5062	6.75		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	67389	89.9		Pass
175	5.0 - 9.0% of mass 174	5194	6.93	(7.71) [a]	Pass
176	95.0 - 101.0% of mass 174	65469	87.3	(97.2) [a]	Pass
177	5.0 - 9.0% of mass 176	4307	5.74	(6.58) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1C7827-ICV7827	1C179481.D	07/16/21	11:34	00:30	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample: V1C7855-BFB
Lab File ID: 1C180226.D
Instrument ID: GCMS1C
Injection Date: 08/18/21
Injection Time: 10:17

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.99 - 40.0% of mass 95	12451	17.3		Pass
75	30.0 - 60.0% of mass 95	33173	46.2		Pass
95	Base peak, 100% relative abundance	71851	100.0		Pass
96	5.0 - 9.0% of mass 95	4703	6.55		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	64472	89.7		Pass
175	5.0 - 9.0% of mass 174	5055	7.04	(7.84) [a]	Pass
176	95.0 - 101.0% of mass 174	63403	88.2	(98.3) [a]	Pass
177	5.0 - 9.0% of mass 176	4270	5.94	(6.73) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1C7855-CC7827	1C180226.D	08/18/21	10:17	00:00	Continuing cal 50
V1C7855-BS	1C180228.D	08/18/21	11:19	01:02	Blank Spike
V1C7855-MB	1C180230.D	08/18/21	12:27	02:10	Method Blank
ZZZZZZ	1C180231.D	08/18/21	12:55	02:38	(unrelated sample)
JD29908-2	1C180232.D	08/18/21	13:22	03:05	(used for QC only; not part of job JD29923)
JD29908-4	1C180233.D	08/18/21	13:49	03:32	(used for QC only; not part of job JD29923)
ZZZZZZ	1C180234.D	08/18/21	14:17	04:00	(unrelated sample)
ZZZZZZ	1C180235.D	08/18/21	14:44	04:27	(unrelated sample)
ZZZZZZ	1C180236.D	08/18/21	15:12	04:55	(unrelated sample)
JD29908-2MS	1C180237.D	08/18/21	15:39	05:22	Matrix Spike
JD29908-4DUP	1C180238.D	08/18/21	16:07	05:50	Duplicate
ZZZZZZ	1C180239.D	08/18/21	16:35	06:18	(unrelated sample)
ZZZZZZ	1C180240.D	08/18/21	17:02	06:45	(unrelated sample)
ZZZZZZ	1C180241.D	08/18/21	17:30	07:13	(unrelated sample)
ZZZZZZ	1C180242.D	08/18/21	17:57	07:40	(unrelated sample)
ZZZZZZ	1C180243.D	08/18/21	18:24	08:07	(unrelated sample)
ZZZZZZ	1C180245.D	08/18/21	19:19	09:02	(unrelated sample)
JD29923-1	1C180246.D	08/18/21	19:46	09:29	SB-1 (6-6.5)
JD29923-2	1C180247.D	08/18/21	20:13	09:56	SB-2 (4.5-5.0)
JD29923-3	1C180248.D	08/18/21	20:41	10:24	SB-3 (6-6.5)
JD29923-4	1C180249.D	08/18/21	21:08	10:51	SB-5 (6-6.5)
JD29923-5	1C180250.D	08/18/21	21:35	11:18	SB-6 (9.5-10.0)
JD29923-6	1C180251.D	08/18/21	22:02	11:45	SB-8 (9.5-10.0)

Instrument Performance Check (BFB)

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample: V1C7856-BFB
Lab File ID: 1C180256.D
Instrument ID: GCMS1C
Injection Date: 08/19/21
Injection Time: 10:20

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.99 - 40.0% of mass 95	12582	17.3		Pass
75	30.0 - 60.0% of mass 95	33552	46.2		Pass
95	Base peak, 100% relative abundance	72549	100.0		Pass
96	5.0 - 9.0% of mass 95	4866	6.71		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	66112	91.1		Pass
175	5.0 - 9.0% of mass 174	5242	7.23	(7.93) [a]	Pass
176	95.0 - 101.0% of mass 174	63968	88.2	(96.8) [a]	Pass
177	5.0 - 9.0% of mass 176	4241	5.85	(6.63) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1C7856-CC7827	1C180256.D	08/19/21	10:20	00:00	Continuing cal 50
V1C7856-BS	1C180257.D	08/19/21	10:55	00:35	Blank Spike
V1C7856-MB	1C180259.D	08/19/21	12:00	01:40	Method Blank
ZZZZZZ	1C180259A.D	08/19/21	12:00	01:40	(unrelated sample)
ZZZZZZ	1C180260.D	08/19/21	12:27	02:07	(unrelated sample)
JD29923-7	1C180261.D	08/19/21	12:55	02:35	SB-9 (7.5-8.0)
JD30019-1	1C180263.D	08/19/21	13:49	03:29	(used for QC only; not part of job JD29923)
JD30019-2	1C180264.D	08/19/21	14:17	03:57	(used for QC only; not part of job JD29923)
ZZZZZZ	1C180266.D	08/19/21	15:12	04:52	(unrelated sample)
JD30019-1MS	1C180267.D	08/19/21	15:40	05:20	Matrix Spike
JD30019-2DUP	1C180268.D	08/19/21	16:07	05:47	Duplicate
ZZZZZZ	1C180269.D	08/19/21	16:35	06:15	(unrelated sample)
ZZZZZZ	1C180270.D	08/19/21	17:03	06:43	(unrelated sample)
ZZZZZZ	1C180271.D	08/19/21	17:30	07:10	(unrelated sample)
ZZZZZZ	1C180272.D	08/19/21	17:58	07:38	(unrelated sample)
ZZZZZZ	1C180273.D	08/19/21	18:25	08:05	(unrelated sample)
ZZZZZZ	1C180274.D	08/19/21	18:53	08:33	(unrelated sample)
ZZZZZZ	1C180275.D	08/19/21	19:21	09:01	(unrelated sample)
ZZZZZZ	1C180276.D	08/19/21	19:48	09:28	(unrelated sample)
ZZZZZZ	1C180277.D	08/19/21	20:16	09:56	(unrelated sample)
ZZZZZZ	1C180278.D	08/19/21	20:44	10:24	(unrelated sample)
ZZZZZZ	1C180279.D	08/19/21	21:12	10:52	(unrelated sample)
ZZZZZZ	1C180280.D	08/19/21	21:39	11:19	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample: V3C7415-BFB
Lab File ID: 3C167223.D
Instrument ID: GCMS3C
Injection Date: 06/16/21
Injection Time: 16:55

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	25957	19.2		Pass
75	30.0 - 60.0% of mass 95	66661	49.3		Pass
95	Base peak, 100% relative abundance	135109	100.0		Pass
96	5.0 - 9.0% of mass 95	9191	6.80		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	118200	87.5		Pass
175	5.0 - 9.0% of mass 174	9185	6.80	(7.77) [a]	Pass
176	95.0 - 101.0% of mass 174	116005	85.9	(98.1) [a]	Pass
177	5.0 - 9.0% of mass 176	7690	5.69	(6.63) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3C7415-IC7415	3C167224.D	06/16/21	17:21	00:26	Initial cal 0.2
V3C7415-IC7415	3C167225.D	06/16/21	17:46	00:51	Initial cal 0.5
V3C7415-IC7415	3C167226.D	06/16/21	18:12	01:17	Initial cal 1
V3C7415-IC7415	3C167227.D	06/16/21	18:37	01:42	Initial cal 2
V3C7415-IC7415	3C167228.D	06/16/21	19:02	02:07	Initial cal 4
V3C7415-IC7415	3C167229.D	06/16/21	19:27	02:32	Initial cal 8
V3C7415-IC7415	3C167230.D	06/16/21	19:52	02:57	Initial cal 20
V3C7415-ICC7415	3C167231.D	06/16/21	20:18	03:23	Initial cal 50
V3C7415-IC7415	3C167232.D	06/16/21	20:43	03:48	Initial cal 100
V3C7415-IC7415	3C167233.D	06/16/21	21:08	04:13	Initial cal 200
V3C7415-ICV7415	3C167236.D	06/16/21	22:23	05:28	Initial cal verification 50
V3C7415-ICV7415	3C167237.D	06/16/21	22:49	05:54	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample: V3C7462-BFB
Lab File ID: 3C168620.D
Instrument ID: GCMS3C
Injection Date: 08/19/21
Injection Time: 11:03

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	17697	17.8		Pass
75	30.0 - 60.0% of mass 95	47384	47.7		Pass
95	Base peak, 100% relative abundance	99245	100.0		Pass
96	5.0 - 9.0% of mass 95	6496	6.55		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	82528	83.2		Pass
175	5.0 - 9.0% of mass 174	6127	6.17	(7.42) [a]	Pass
176	95.0 - 101.0% of mass 174	80560	81.2	(97.6) [a]	Pass
177	5.0 - 9.0% of mass 176	5353	5.39	(6.64) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3C7462-CC7415	3C168620.D	08/19/21	11:03	00:00	Continuing cal 50
V3C7462-BS	3C168622.D	08/19/21	11:59	00:56	Blank Spike
V3C7462-MB	3C168624.D	08/19/21	12:54	01:51	Method Blank
JD30038-1	3C168625.D	08/19/21	13:20	02:17	(used for QC only; not part of job JD29923)
JD30038-2	3C168626.D	08/19/21	13:45	02:42	(used for QC only; not part of job JD29923)
ZZZZZZ	3C168627.D	08/19/21	14:11	03:08	(unrelated sample)
ZZZZZZ	3C168628.D	08/19/21	14:37	03:34	(unrelated sample)
ZZZZZZ	3C168629.D	08/19/21	15:02	03:59	(unrelated sample)
JD30038-1MS	3C168630.D	08/19/21	15:28	04:25	Matrix Spike
JD30038-2DUP	3C168632.D	08/19/21	16:19	05:16	Duplicate
JD29923-8	3C168633.D	08/19/21	16:45	05:42	SB-10 (7.5-8.0)
ZZZZZZ	3C168634.D	08/19/21	17:11	06:08	(unrelated sample)
ZZZZZZ	3C168635.D	08/19/21	17:37	06:34	(unrelated sample)
ZZZZZZ	3C168636.D	08/19/21	18:03	07:00	(unrelated sample)
ZZZZZZ	3C168637.D	08/19/21	18:29	07:26	(unrelated sample)
ZZZZZZ	3C168638.D	08/19/21	18:54	07:51	(unrelated sample)
ZZZZZZ	3C168639.D	08/19/21	19:20	08:17	(unrelated sample)
ZZZZZZ	3C168640.D	08/19/21	19:46	08:43	(unrelated sample)
ZZZZZZ	3C168641.D	08/19/21	20:12	09:09	(unrelated sample)
ZZZZZZ	3C168642.D	08/19/21	20:38	09:35	(unrelated sample)
ZZZZZZ	3C168643.D	08/19/21	21:03	10:00	(unrelated sample)
ZZZZZZ	3C168644.D	08/19/21	21:29	10:26	(unrelated sample)
ZZZZZZ	3C168645.D	08/19/21	21:55	10:52	(unrelated sample)
ZZZZZZ	3C168646.D	08/19/21	22:21	11:18	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample:	V3C7462-BFB	**Injection Date:**	08/19/21
Lab File ID:	3C168620.D	**Injection Time:**	11:03
Instrument ID:	GCMS3C		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3C168647.D	08/19/21	22:46	11:43	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample: V4D4892-BFB
Lab File ID: 4D109986.D
Instrument ID: GCMS4D
Injection Date: 05/19/21
Injection Time: 20:05

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.99 - 40.0% of mass 95	25640	18.0		Pass
75	30.0 - 60.0% of mass 95	68392	48.0		Pass
95	Base peak, 100% relative abundance	142525	100.0		Pass
96	5.0 - 9.0% of mass 95	9499	6.66		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	123269	86.5		Pass
175	5.0 - 9.0% of mass 174	9306	6.53	(7.55) [a]	Pass
176	95.0 - 101.0% of mass 174	119307	83.7	(96.8) [a]	Pass
177	5.0 - 9.0% of mass 176	7773	5.45	(6.52) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V4D4892-IC4892	4D109987.D	05/19/21	20:33	00:28	Initial cal 0.2
V4D4892-IC4892	4D109988.D	05/19/21	21:02	00:57	Initial cal 0.5
V4D4892-IC4892	4D109989.D	05/19/21	21:30	01:25	Initial cal 1
V4D4892-IC4892	4D109990.D	05/19/21	21:59	01:54	Initial cal 2
V4D4892-IC4892	4D109991.D	05/19/21	22:27	02:22	Initial cal 4
V4D4892-IC4892	4D109992.D	05/19/21	22:56	02:51	Initial cal 8
V4D4892-IC4892	4D109993.D	05/19/21	23:24	03:19	Initial cal 20
V4D4892-ICC4892	4D109994.D	05/19/21	23:52	03:47	Initial cal 50
V4D4892-IC4892	4D109995.D	05/20/21	00:21	04:16	Initial cal 100
V4D4892-IC4892	4D109996.D	05/20/21	00:49	04:44	Initial cal 200
V4D4892-ICV4892	4D109999.D	05/20/21	02:14	06:09	Initial cal verification 50
V4D4892-ICV4892	4D110000.D	05/20/21	02:43	06:38	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample: V4D4985-BFB
Lab File ID: 4D111912.D
Instrument ID: GCMS4D
Injection Date: 08/19/21
Injection Time: 10:18

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.99 - 40.0% of mass 95	25493	21.3		Pass
75	30.0 - 60.0% of mass 95	65080	54.3		Pass
95	Base peak, 100% relative abundance	119835	100.0		Pass
96	5.0 - 9.0% of mass 95	8251	6.89		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	108245	90.3		Pass
175	5.0 - 9.0% of mass 174	9406	7.85	(8.69) [a]	Pass
176	95.0 - 101.0% of mass 174	106029	88.5	(98.0) [a]	Pass
177	5.0 - 9.0% of mass 176	7319	6.11	(6.90) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V4D4985-CC4892	4D111912.D	08/19/21	10:18	00:00	Continuing cal 20
V4D4985-BS	4D111914.D	08/19/21	11:27	01:09	Blank Spike
V4D4985-MB	4D111916.D	08/19/21	12:24	02:06	Method Blank
ZZZZZZ	4D111917.D	08/19/21	12:53	02:35	(unrelated sample)
ZZZZZZ	4D111918.D	08/19/21	13:22	03:04	(unrelated sample)
ZZZZZZ	4D111919.D	08/19/21	13:51	03:33	(unrelated sample)
JD29818-21	4D111920.D	08/19/21	14:20	04:02	(used for QC only; not part of job JD29923)
JD29818-24	4D111921.D	08/19/21	14:50	04:32	(used for QC only; not part of job JD29923)
ZZZZZZ	4D111922.D	08/19/21	15:19	05:01	(unrelated sample)
ZZZZZZ	4D111923.D	08/19/21	15:48	05:30	(unrelated sample)
JD29818-21MS	4D111924.D	08/19/21	16:17	05:59	Matrix Spike
ZZZZZZ	4D111925.D	08/19/21	16:46	06:28	(unrelated sample)
JD29818-24DUP	4D111926.D	08/19/21	17:15	06:57	Duplicate
JD29923-9	4D111927.D	08/19/21	17:44	07:26	TB
ZZZZZZ	4D111928.D	08/19/21	18:14	07:56	(unrelated sample)
ZZZZZZ	4D111929.D	08/19/21	18:43	08:25	(unrelated sample)
ZZZZZZ	4D111930.D	08/19/21	19:12	08:54	(unrelated sample)
ZZZZZZ	4D111931.D	08/19/21	19:41	09:23	(unrelated sample)
ZZZZZZ	4D111932.D	08/19/21	20:10	09:52	(unrelated sample)
ZZZZZZ	4D111934.D	08/19/21	21:08	10:50	(unrelated sample)
ZZZZZZ	4D111935.D	08/19/21	21:37	11:19	(unrelated sample)
ZZZZZZ	4D111936.D	08/19/21	22:06	11:48	(unrelated sample)

Internal Standard Area Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Check Std: V1C7855-CC7827 **Injection Date:** 08/18/21
Lab File ID: 1C180226.D **Injection Time:** 10:17
Instrument ID: GCMS1C **Method:** SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	81632	7.24	209356	9.48	326109	10.40	263030	13.55	125715	15.87
Upper Limit [a]	163264	7.74	418712	9.98	652218	10.90	526060	14.05	251430	16.37
Lower Limit [b]	40816	6.74	104678	8.98	163055	9.90	131515	13.05	62858	15.37

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V1C7855-BS	86835	7.24	219137	9.48	344945	10.40	270466	13.55	129402	15.86
V1C7855-MB	80950	7.24	237738	9.48	355215	10.40	284569	13.55	131832	15.86
ZZZZZZ	87504	7.24	226470	9.48	336984	10.40	262340	13.55	111694	15.86
JD29908-2	82768	7.24	236456	9.48	360229	10.40	287603	13.55	135277	15.86
JD29908-4	83590	7.24	234516	9.48	356833	10.40	286943	13.55	133707	15.87
ZZZZZZ	84410	7.24	233357	9.48	351204	10.40	282951	13.55	131082	15.86
ZZZZZZ	80343	7.24	226773	9.48	343988	10.40	277030	13.55	132073	15.87
ZZZZZZ	90465	7.24	227551	9.48	349825	10.40	281170	13.55	130005	15.86
JD29908-2MS	65806	7.24	216808	9.48	345214	10.40	273239	13.55	131111	15.86
JD29908-4DUP	89720	7.24	237538	9.48	365634	10.40	296445	13.55	137758	15.87
ZZZZZZ	82478	7.24	231454	9.48	350704	10.40	285066	13.55	135149	15.86
ZZZZZZ	82252	7.24	230569	9.48	352781	10.40	284319	13.55	135310	15.86
ZZZZZZ	90900	7.24	227318	9.48	347745	10.40	281155	13.55	134834	15.86
ZZZZZZ	83661	7.24	225633	9.48	345362	10.40	277540	13.55	130490	15.87
ZZZZZZ	85947	7.24	226013	9.48	348644	10.40	280830	13.55	133698	15.87
ZZZZZZ	85446	7.24	215669	9.48	329630	10.40	267630	13.55	123435	15.87
JD29923-1	76027	7.24	220995	9.48	336446	10.40	271379	13.55	129011	15.87
JD29923-2	81551	7.24	207932	9.48	319430	10.40	252686	13.55	113508	15.87
JD29923-3	78643	7.24	219497	9.48	338181	10.40	272063	13.55	128871	15.86
JD29923-4	78175	7.24	218301	9.48	331736	10.40	269493	13.55	126079	15.87
JD29923-5	81003	7.24	223104	9.48	342838	10.40	277038	13.55	131216	15.86
JD29923-6	84100	7.24	223177	9.48	343182	10.40	274815	13.55	132043	15.86

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Check Std: V1C7856-CC7827 **Injection Date:** 08/19/21
Lab File ID: 1C180256.D **Injection Time:** 10:20
Instrument ID: GCMS1C **Method:** SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	79217	7.24	213768	9.48	335345	10.40	267255	13.55	129310	15.86
Upper Limit [a]	158434	7.74	427536	9.98	670690	10.90	534510	14.05	258620	16.36
Lower Limit [b]	39609	6.74	106884	8.98	167673	9.90	133628	13.05	64655	15.36

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V1C7856-BS	91642	7.24	229162	9.48	359293	10.40	281942	13.55	135009	15.87
V1C7856-MB	75098	7.24	247046	9.48	370253	10.40	293905	13.55	136789	15.86
ZZZZZZ	75098	7.24	247046	9.48	370253	10.40	293905	13.55	136789	15.86
ZZZZZZ	89638	7.24	232595	9.48	355052	10.40	280079	13.55	127781	15.87
JD29923-7	80892	7.24	230067	9.48	347834	10.40	282350	13.55	132248	15.86
JD30019-1	78934	7.24	223312	9.48	338037	10.40	268881	13.55	127104	15.86
JD30019-2	77857	7.24	217407	9.48	331686	10.40	262876	13.55	119223	15.86
ZZZZZZ	84688	7.24	223969	9.48	342858	10.40	275504	13.55	132353	15.86
JD30019-1MS	74741	7.24	218408	9.48	341570	10.40	274025	13.56	131830	15.87
JD30019-2DUP	80063	7.24	233252	9.48	353572	10.40	282384	13.55	128481	15.87
ZZZZZZ	83273	7.24	228711	9.48	347589	10.40	279630	13.55	132775	15.87
ZZZZZZ	86723	7.24	222899	9.48	336806	10.40	271355	13.55	127494	15.87
ZZZZZZ	79617	7.24	220288	9.48	333446	10.40	268026	13.55	127775	15.87
ZZZZZZ	77720	7.24	222298	9.48	335806	10.40	271401	13.55	129372	15.87
ZZZZZZ	82311	7.24	220148	9.48	336400	10.40	271898	13.55	128926	15.87
ZZZZZZ	82677	7.24	217727	9.48	333556	10.40	268152	13.55	127517	15.87
ZZZZZZ	82274	7.24	208564	9.48	319685	10.40	253295	13.55	117588	15.86
ZZZZZZ	81769	7.24	216392	9.48	328335	10.40	266021	13.55	125532	15.87
ZZZZZZ	83788	7.24	217787	9.48	328922	10.40	264800	13.55	127351	15.86
ZZZZZZ	77618	7.24	218379	9.48	334131	10.40	268929	13.55	126658	15.87
ZZZZZZ	75053	7.24	216490	9.48	329788	10.40	268007	13.55	128739	15.86
ZZZZZZ	74957	7.24	216706	9.48	333476	10.40	267390	13.55	128470	15.86

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Check Std: V3C7462-CC7415 **Injection Date:** 08/19/21
Lab File ID: 3C168620.D **Injection Time:** 11:03
Instrument ID: GCMS3C **Method:** SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	64571	2.56	267922	4.00	410422	4.66	356389	7.37	175866	9.30
Upper Limit [a]	129142	3.06	535844	4.50	820844	5.16	712778	7.87	351732	9.80
Lower Limit [b]	32286	2.06	133961	3.50	205211	4.16	178195	6.87	87933	8.80

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V3C7462-BS	65386	2.56	271750	4.00	418144	4.66	359505	7.37	178974	9.30
V3C7462-MB	64680	2.56	253995	4.00	390185	4.66	342628	7.37	165524	9.30
JD30038-1	72775	2.56	252822	4.01	394088	4.66	346455	7.37	169351	9.30
JD30038-2	75676	2.56	250491	4.01	392541	4.66	346911	7.37	174260	9.30
ZZZZZZ	76872	2.56	257519	4.01	402648	4.66	354105	7.37	173279	9.30
ZZZZZZ	68362	2.56	249342	4.01	392122	4.66	346554	7.37	174145	9.30
ZZZZZZ	70037	2.56	247701	4.00	388576	4.66	342948	7.37	172583	9.30
JD30038-1MS	63472	2.56	254593	4.01	396045	4.66	346162	7.37	169254	9.30
JD30038-2DUP	78016	2.56	250833	4.00	394050	4.66	349015	7.37	174915	9.30
JD29923-8	82619	2.56	258708	4.01	406611	4.66	358522	7.37	181479	9.30
ZZZZZZ	70538	2.56	246688	4.01	382790	4.66	332325	7.37	159214	9.30
ZZZZZZ	77837	2.56	249240	4.01	394568	4.66	350593	7.37	176300	9.30
ZZZZZZ	75539	2.56	242656	4.00	382091	4.66	337108	7.37	169503	9.30
ZZZZZZ	71698	2.56	247533	4.01	393194	4.66	349051	7.37	172949	9.30
ZZZZZZ	82493	2.56	245609	4.01	392974	4.66	351729	7.37	178026	9.30
ZZZZZZ	72246	2.56	242491	4.01	382102	4.66	337201	7.37	165487	9.30
ZZZZZZ	72031	2.56	242270	4.01	381991	4.66	338865	7.37	169263	9.30
ZZZZZZ	73927	2.56	252311	4.01	395151	4.66	351290	7.37	173678	9.30
ZZZZZZ	66369	2.56	237017	4.00	374450	4.66	323389	7.37	156119	9.30
ZZZZZZ	77659	2.56	234821	4.01	374797	4.66	330946	7.37	163272	9.30
ZZZZZZ	70451	2.56	240030	4.01	379452	4.66	334571	7.37	166868	9.30
ZZZZZZ	76017	2.56	245334	4.01	385008	4.66	338666	7.37	168283	9.30
ZZZZZZ	74083	2.56	237861	4.01	382392	4.66	339603	7.37	165479	9.30
ZZZZZZ	73153	2.56	228446	4.01	355804	4.66	279256	7.37	97221	9.30

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Check Std: V4D4985-CC4892 **Injection Date:** 08/19/21
Lab File ID: 4D111912.D **Injection Time:** 10:18
Instrument ID: GCMS4D **Method:** SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	301037	8.62	390490	11.11	540829	12.00	436358	14.90	192473	17.00
Upper Limit [a]	602074	9.12	780980	11.61	1081658	12.50	872716	15.40	384946	17.50
Lower Limit [b]	150519	8.12	195245	10.61	270415	11.50	218179	14.40	96237	16.50

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V4D4985-BS	319159	8.63	408582	11.11	558042	12.00	464539	14.90	213072	17.00
V4D4985-MB	391720	8.62	493801	11.11	665714	12.00	513068	14.90	216232	17.00
ZZZZZZ	360741	8.62	448026	11.11	620882	12.00	479756	14.90	205751	17.00
ZZZZZZ	362347	8.62	443655	11.11	603575	12.00	469237	14.90	199172	17.00
ZZZZZZ	344475	8.62	417275	11.11	567957	12.00	441556	14.90	191856	17.00
JD29818-21	317404	8.62	409025	11.11	563689	12.00	445579	14.90	196544	17.00
JD29818-24	348663	8.63	403972	11.11	549756	12.00	440482	14.90	195093	17.00
ZZZZZZ	319654	8.62	399132	11.11	535425	12.00	437295	14.90	201213	17.00
ZZZZZZ	312927	8.62	384375	11.11	525394	12.00	421895	14.90	187995	17.00
JD29818-21MS	301333	8.63	369792	11.11	502586	12.00	417140	14.90	195479	17.00
ZZZZZZ	371839	8.63	436325	11.11	596981	12.00	472328	14.90	211118	17.00
JD29818-24DUP	347719	8.62	403929	11.11	544489	12.00	438934	14.90	191560	17.00
JD29923-9	333479	8.62	394462	11.11	534680	12.00	430618	14.90	191354	17.00
ZZZZZZ	334934	8.62	392680	11.11	531206	12.00	442810	14.90	190868	17.00
ZZZZZZ	320348	8.63	385514	11.11	520235	12.00	417984	14.90	188617	17.00
ZZZZZZ	313979	8.62	367256	11.11	503976	12.00	410864	14.90	180555	17.00
ZZZZZZ	307624	8.63	358665	11.11	499253	12.00	400314	14.90	177668	17.00
ZZZZZZ	302586	8.62	362388	11.11	493372	12.00	396784	14.90	172056	17.00
ZZZZZZ	296413	8.62	363912	11.11	495563	12.00	403752	14.90	175569	17.00
ZZZZZZ	298698	8.62	360154	11.11	490742	12.00	410765	14.90	182818	17.00
ZZZZZZ	307510	8.63	364309	11.11	496637	12.00	406843	14.90	185874	17.00

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Method: SW846 8260D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD29923-9	4D111927.D	103	120	98	95
JD29818-21MS	4D111924.D	101	114	95	93
JD29818-24DUP	4D111926.D	102	119	96	96
V4D4985-BS	4D111914.D	101	111	95	94
V4D4985-MB	4D111916.D	102	113	98	96

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	85-118%
S2 = 1,2-Dichloroethane-D4	80-121%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	80-120%

Surrogate Recovery Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Method: SW846 8260D **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD29923-1	1C180246.D	108	112	104	98
JD29923-2	1C180247.D	110	116	105	103
JD29923-3	1C180248.D	108	113	104	99
JD29923-4	1C180249.D	108	113	104	100
JD29923-5	1C180250.D	109	114	104	98
JD29923-6	1C180251.D	108	113	104	97
JD29923-7	1C180261.D	106	112	104	100
JD29923-8	3C168633.D	100	101	100	103
JD29908-2MS	1C180237.D	109	107	103	100
JD29908-4DUP	1C180238.D	109	114	103	101
JD30019-1MS	1C180267.D	106	108	102	99
JD30019-2DUP	1C180268.D	107	112	104	101
JD30038-1MS	3C168630.D	99	98	102	108
JD30038-2DUP	3C168632.D	100	101	100	105
V1C7855-BS	1C180228.D	106	106	104	100
V1C7855-MB	1C180230.D	104	106	104	100
V1C7856-BS	1C180257.D	105	106	103	99
V1C7856-MB	1C180259.D	103	105	104	99
V3C7462-BS	3C168622.D	97	95	103	107
V3C7462-MB	3C168624.D	95	95	100	106

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	72-130%
S2 = 1,2-Dichloroethane-D4	75-131%
S3 = Toluene-D8	81-121%
S4 = 4-Bromofluorobenzene	60-141%

Initial Calibration Summary

Job Number: JD29923 **Sample:** V1C7827-ICC7827
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1C179472.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Response Factor Report GCMS1C

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M (RTE Integrator)
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
Last Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

Calibration Files
1 =1C179467.D 0.5 =1C179466.D 100 =1C179473.D 50 =1C179472.D
20 =1C179471.D 200 =1C179474.D 4 =1C179469.D 2 =1C179468.D
8 =1C179470.D 0.2 =1C179465.D = =

Compound	1	0.5	100	50	20	200	4	2	8	0.2	Avg	%RSD
1) tert butyl alcohol-d9	----------ISTD----------											
2) tertiary butyl alcohol		1.239	1.166	1.215	1.176	1.227	1.265	1.219			1.215	2.83
3) ethanol		0.135	0.122	0.119	0.129	0.120	0.109	0.119			0.122	6.76
4) 1,4-dioxane		0.127	0.115	0.117	0.120	0.104	0.093	0.111			0.112	9.91
5) I pentafluorobenzene	----------ISTD----------											
6) dichlorodifluoromethane	0.647	0.723	0.683	0.651	0.646	0.650	0.610	0.665	0.655		0.659	4.66
7) chlorodifluoromethane	0.450	0.423	0.457	0.441	0.446	0.425	0.444	0.472	0.447		0.445	3.38
8) chloromethane	0.739	0.850	0.676	0.650	0.672	0.642	0.669	0.728	0.709		0.704	9.12
9) vinyl chloride	0.623	0.640	0.628	0.601	0.595	0.601	0.576	0.597	0.606		0.607	3.23
10) 1,3-butadiene	0.421	0.408	0.405	0.394	0.411	0.372	0.413	0.428	0.413		0.407	4.01
11) bromomethane	0.458	0.372	0.343	0.362	0.372	0.416	0.444	0.396			0.395	10.36
12) chloroethane	0.314	0.319	0.303	0.302	0.304	0.301	0.302	0.310			0.307	2.26
13) trichlorofluoromethane	0.706	0.671	0.712	0.679	0.674	0.682	0.661	0.687	0.685	0.547	0.670	6.87
14) ethyl ether		0.200	0.191	0.185	0.191	0.178	0.154	0.180			0.183	7.96
15) acrolein		0.067	0.066	0.061	0.063		0.059				0.063	5.39
16) freon 113	0.287	0.332	0.319	0.325	0.313	0.302	0.312	0.324			0.314	4.53
17) 1,1-dichloroethene	0.378	0.468	0.352	0.347	0.360	0.329	0.369	0.381	0.361		0.372	10.67
18) acetone		0.121	0.103	0.106	0.107	0.133	0.139	0.129			0.120	12.15
19) acetonitrile		0.046	0.046	0.047	0.043	0.053		0.049			0.047	7.01
20) iodomethane		0.503	0.455	0.339	0.486	0.151		0.216			0.358	41.38
----- Linear regression ----- Coefficient = 0.9970												
Response Ratio = -0.03646 + 0.49810 *A												
21) carbon disulfide	1.288	1.570	1.258	1.208	1.249	1.175	1.278	1.316	1.257		1.289	8.79

Initial Calibration Summary

Job Number: JD29923 **Sample:** V1C7827-ICC7827
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1C179472.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

22) methylene chloride
0.412 0.399 0.410 0.391 0.439 0.473 0.426 0.421 6.62
23) methyl acetate
0.283 0.279 0.279 0.267 0.297 0.270 0.279 3.84
24) methyl tert butyl ether
0.849 0.901 0.997 0.954 0.920 0.943 0.909 0.922 0.921 0.760 0.908 7.09
25) trans-1,2-dichloroethene
0.414 0.493 0.403 0.393 0.413 0.375 0.416 0.461 0.413 0.420 8.49
26) di-isopropyl ether
1.203 1.290 1.399 1.341 1.335 1.315 1.307 1.327 1.303 1.204 1.303 4.61
27) 2-butanone
0.043 0.041 0.039 0.041 0.035 0.029 0.040 0.038 12.34
28) 1,1-dichloroethane
0.679 0.666 0.723 0.705 0.724 0.675 0.721 0.743 0.739 0.550 0.693 8.19
29) chloroprene
0.529 0.536 0.590 0.577 0.593 0.555 0.564 0.577 0.573 0.566 3.95
30) acrylonitrile
0.135 0.124 0.121 0.125 0.098 0.112 0.119 10.66
31) hexane
0.710 0.682 0.659 0.668 0.626 0.657 0.710 0.656 0.671 4.27
32) vinyl acetate
0.061 0.063 0.056 0.060 0.047 0.057 10.88
33) ethyl tert-butyl ether
1.049 1.059 1.280 1.235 1.203 1.228 1.155 1.174 1.169 1.172 6.62
34) ethyl acetate
0.057 0.055 0.054 0.053 0.058 0.053 0.055 4.26
35) 2,2-dichloropropane
0.547 0.656 0.594 0.578 0.591 0.559 0.594 0.610 0.602 0.592 5.31
36) cis-1,2-dichloroethene
0.466 0.444 0.430 0.445 0.414 0.456 0.465 0.453 0.447 3.94
37) methyl acrylate
0.056 0.052 0.048 0.052 0.032 0.049 0.048 17.05
38) propionitrile
0.041 0.050 0.049 0.049 0.047 0.050 0.046 0.049 0.048 6.10
39) bromochloromethane
0.174 0.201 0.198 0.205 0.192 0.205 0.204 0.201 0.197 5.32
40) tetrahydrofuran
0.121 0.119 0.122 0.112 0.146 0.130 0.125 9.61
41) chloroform
0.530 0.473 0.463 0.466 0.445 0.495 0.518 0.488 0.485 5.97
42) t-butyl formate *This compound fails Initial Calibration criteria*
0.310 0.309 0.300 0.301 0.253 0.268 0.276 0.288 7.83
43) dibromofluoromethane (s)
0.452 0.450 0.467 0.464 0.459 0.469 0.452 0.456 0.454 0.446 0.457 1.65
44) methacrylonitrile
0.149 0.140 0.137 0.141 0.135 0.119 0.135 0.136 6.66
45) 1,1,1-trichloroethane
0.574 0.614 0.620 0.594 0.613 0.588 0.598 0.626 0.611 0.604 2.74
46) cyclohexane
0.594 0.621 0.591 0.573 0.572 0.567 0.571 0.579 0.580 0.583 2.91
47) 1,1-dichloropropene
0.502 0.481 0.569 0.549 0.563 0.536 0.553 0.530 0.552 0.537 5.40
48) iso-butyl alcohol
0.017 0.016 0.016 0.016 0.020 0.018 0.017 9.58
49) carbon tetrachloride
0.483 0.542 0.550 0.534 0.549 0.513 0.523 0.538 0.548 0.531 4.12
50) tert amyl alcohol
0.014 0.013 0.013 0.013 0.015 0.015 0.014 7.33

51) I 1,4-difluorobenzene ----------ISTD----------

52) 1,2-dichloroethane-d4 (s)
0.288 0.287 0.285 0.285 0.289 0.284 0.289 0.290 0.292 0.281 0.287 1.10
53) n-butyl alcohol
0.005 0.008 0.007 0.007 0.007 0.007 0.007 0.007 0.007# 12.31
54) 2,2,4-trimethylpentane
1.143 1.285 1.109 1.097 1.147 1.023 1.127 1.200 1.162 1.144 6.31
55) benzene
1.012 1.129 1.014 1.006 1.050 0.946 1.039 1.069 1.072 0.969 1.031 5.15
56) tert-amyl methyl ether
0.127 0.170 0.165 0.166 0.160 0.156 0.173 0.171 0.161 9.15
57) heptane
0.236 0.258 0.243 0.238 0.247 0.223 0.246 0.267 0.257 0.246 5.45
58) isopropyl acetate
0.050 0.048 0.047 0.047 0.037 0.046 0.046 10.01
59) 1,2-dichloroethane
0.298 0.314 0.295 0.292 0.303 0.272 0.315 0.332 0.313 0.304 5.65
60) trichloroethene
0.241 0.276 0.290 0.279 0.286 0.273 0.286 0.290 0.291 0.279 5.62
61) ethyl acrylate
0.299 0.292 0.290 0.283 0.286 0.300 0.288 0.291 2.26
62) 2-nitropropane
0.000# -1.00
63) 2-chloroethyl vinyl ether
0.135 0.138 0.161 0.153 0.152 0.151 0.146 0.145 0.150 0.148 5.33
64) methyl methacrylate
0.057 0.054 0.053 0.053 0.047 0.041 0.051 0.051 10.83
65) 1,2-dichloropropane
0.245 0.235 0.275 0.269 0.277 0.258 0.279 0.260 0.274 0.264 5.84
66) dibromomethane
0.144 0.139 0.158 0.153 0.156 0.151 0.156 0.157 0.155 0.152 4.40
67) methylcyclohexane
0.461 0.460 0.478 0.465 0.475 0.443 0.465 0.486 0.474 0.479 0.469 2.66
68) bromodichloromethane
0.345 0.347 0.360 0.347 0.353 0.342 0.354 0.363 0.355 0.265 0.343 8.20
69) epichlorohydrin
0.024 0.023 0.024 0.023 0.026 0.025 0.024 0.024 4.30
70) cis-1,3-dichloropropene
0.374 0.414 0.446 0.432 0.436 0.421 0.424 0.413 0.428 0.421 4.83
71) 4-methyl-2-pentanone
0.077 0.076 0.091 0.089 0.088 0.084 0.090 0.090 0.090 0.086 6.61
72) 3-methyl-1-butanol
0.011 0.011 0.012 0.011 0.011 0.011 0.012 0.011 0.012 0.011 4.66

73) I chlorobenzene-d5 ----------ISTD----------
74) toluene-d8 (s)
1.342 1.338 1.292 1.306 1.315 1.297 1.331 1.326 1.314 1.328 1.319 1.28
75) toluene
0.731 0.816 0.753 0.732 0.758 0.716 0.775 0.800 0.763 0.899 0.774 6.93
76) trans-1,3-dichloropropene
0.371 0.349 0.449 0.434 0.424 0.426 0.414 0.416 0.422 0.412 7.68
77) ethyl methacrylate
0.288 0.368 0.353 0.347 0.347 0.338 0.345 0.348 0.342 6.80
78) 1,1,2-trichloroethane
0.215 0.177 0.237 0.224 0.221 0.223 0.213 0.224 0.222 0.217 7.59
79) tetrachloroethene
0.257 0.256 0.272 0.268 0.273 0.254 0.279 0.279 0.275 0.268 3.64
80) 1,3-dichloropropane
0.373 0.360 0.415 0.406 0.404 0.390 0.414 0.410 0.404 0.397 4.86
81) 2-hexanone
0.090 0.085 0.105 0.102 0.102 0.096 0.106 0.101 0.105 0.099 7.30

82) butyl acetate
0.158 0.173 0.176 0.172 0.175 0.166 0.198 0.196 0.190 0.178 7.67
83) dibromochloromethane
0.287 0.264 0.334 0.318 0.312 0.321 0.312 0.315 0.307 0.308 6.70
84) 1,2-dibromoethane
0.235 0.200 0.283 0.270 0.269 0.271 0.252 0.255 0.262 0.255 9.75
85) n-butyl ether
1.315 1.403 1.390 1.330 1.351 1.309 1.343 1.383 1.355 1.420 1.360 2.77
86) chlorobenzene
0.780 0.806 0.810 0.791 0.809 0.767 0.805 0.815 0.816 0.779 0.798 2.16
87) 1,1,1,2-tetrachloroethane
0.292 0.311 0.305 0.295 0.299 0.291 0.293 0.281 0.294 0.296 2.91
88) ethylbenzene
1.384 1.552 1.389 1.368 1.410 1.294 1.441 1.488 1.427 1.623 1.437 6.63
89) m,p-xylene
0.498 0.527 0.519 0.511 0.528 0.486 0.539 0.543 0.536 0.580 0.527 4.99
90) o-xylene
0.486 0.529 0.521 0.497 0.510 0.490 0.511 0.526 0.507 0.496 0.507 2.94
91) styrene
0.832 0.879 0.890 0.863 0.884 0.827 0.885 0.891 0.884 0.868 0.870 2.69
92) bromoform
0.198 0.238 0.220 0.213 0.231 0.211 0.207 0.208 0.216 6.12
93) butyl acrylate
0.541 0.527 0.571 0.542 0.535 0.540 0.532 0.545 0.523 0.539 2.56
94) isopropylbenzene
1.342 1.370 1.384 1.352 1.367 1.295 1.365 1.378 1.380 1.563 1.380 5.04
95) cis-1,4-dichloro-2-butene
0.112 0.105 0.105 0.109 0.098 0.102 0.105 4.61

96) I 1,4-dichlorobenzene-d ----------ISTD----------
97) 4-bromofluorobenzene (s)
0.960 0.962 0.983 0.986 0.972 1.023 0.961 0.958 0.969 0.963 0.974 2.05
98) bromobenzene
0.681 0.658 0.752 0.737 0.751 0.711 0.764 0.777 0.743 0.731 5.43
99) 1,1,2,2-tetrachloroethane
0.611 0.627 0.727 0.696 0.683 0.712 0.689 0.695 0.695 0.682 5.58
100) trans-1,4-dichloro-2-butene
0.164 0.183 0.176 0.184 0.176 0.160 0.173 0.196 0.176 6.48
101) 1,2,3-trichloropropane
0.128 0.165 0.159 0.158 0.156 0.160 0.149 0.166 0.155 7.83
102) n-propylbenzene
3.397 3.652 3.458 3.415 3.525 3.229 3.562 3.682 3.534 4.265 3.572 7.75
103) 2-chlorotoluene
0.624 0.653 0.690 0.673 0.690 0.657 0.685 0.695 0.685 0.672 3.50
104) 4-chlorotoluene
2.009 2.317 2.048 1.988 2.013 1.977 2.082 2.181 2.080 2.591 2.128 9.05
105) 1,3,5-trimethylbenzene
2.131 2.339 2.300 2.251 2.275 2.168 2.304 2.384 2.277 2.376 2.281 3.58
106) tert-butylbenzene
0.374 0.458 0.430 0.429 0.429 0.423 0.452 0.434 0.429 5.93
107) 1,2,4-trimethylbenzene
2.268 2.175 2.336 2.285 2.300 2.177 2.318 2.417 2.344 2.354 2.297 3.31
108) sec-butylbenzene
2.971 3.105 3.171 3.095 3.138 3.002 3.134 3.133 3.157 3.302 3.121 2.92
109) 1,3-dichlorobenzene
1.334 1.291 1.392 1.358 1.357 1.320 1.360 1.411 1.393 1.223 1.344 4.15
110) p-isopropyltoluene
2.384 2.565 2.584 2.512 2.539 2.419 2.535 2.617 2.596 2.983 2.573 6.30
111) 1,2,3-trimethylbenzene
2.237 2.364 2.373 2.301 2.339 2.199 2.365 2.432 2.369 2.534 2.351 4.01

Initial Calibration Summary

Job Number: JD29923 **Sample:** V1C7827-ICC7827
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1C179472.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

```
112)  1,4-dichlorobenzene
       1.335 1.441 1.340 1.315 1.327 1.250 1.387 1.417 1.386 1.399  1.360    4.18
113)  benzyl chloride
       1.241 1.350 1.334 1.289 1.243 1.280 1.280 1.317 1.274        1.290    2.90
114)  1,2-dichlorobenzene
       1.246 1.311 1.345 1.303 1.277 1.268 1.272 1.310 1.305        1.293    2.30
115)  n-butylbenzene
       1.330 1.408 1.424 1.395 1.374 1.324 1.368 1.386 1.393 1.709  1.411    7.75
116)  1,2-dibromo-3-chloropropane
                  0.134 0.126 0.122 0.127 0.113 0.105 0.125        0.122    7.99
117)  1,3,5-trichlorobenzene
       0.979 1.020 1.057 1.027 1.003 0.990 1.027 0.992 1.012 1.124  1.023    4.12
118)  2-ethylhexyl acrylate
                  0.657 0.632 0.607 0.630 0.563       0.579        0.611    5.78
119)  1,2,4-trichlorobenzene
       0.776 0.872 0.892 0.865 0.832 0.815 0.854 0.822 0.852 0.862  0.844    3.97
120)  hexachlorobutadiene
       0.479 0.522 0.513 0.516 0.529 0.444 0.501 0.518 0.537 0.484  0.504    5.55
121)  naphthalene
       1.606 1.665 1.855 1.802 1.791 1.730 1.757 1.720 1.738 1.830  1.749    4.32
122)  1,2,3-trichlorobenzene
       0.728 0.695 0.823 0.782 0.763 0.755 0.748 0.754 0.758 0.695  0.750    5.08
123)  hexachloroethane
       0.377 0.407 0.512 0.480 0.464 0.493 0.432 0.435 0.450        0.450    9.44
124)  2-methylnaphthalene
                  1.186 1.131 1.029 1.109 0.967 0.921 1.014        1.051    9.01

125)     pentafluorobenzene(a) ----------------ISTD---------------------
126)  vinyl bromide
                  0.335 0.317 0.300 0.320 0.301 0.300 0.311        0.312    4.17
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M1CS7827.M        Mon Jul 26 16:48:19 2021
```

Initial Calibration Verification

Job Number: JD29923 **Sample:** V1C7827-ICV7827
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1C179477.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\V1C7827\1C179477.D Vial: 14
Acq On : 16 Jul 2021 1:00 am Operator: PrashanS
Sample : ICV7827-50 Inst : GCMS1C
Misc : MS52150,V1C7827,5.0,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M (RTE Integrator)
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
Last Update : Fri Jul 16 20:43:13 2021
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		tert butyl alcohol-d9	1.000	1.000	0.0	99	0.00	7.24
2	M	tertiary butyl alcohol	1.215	1.215	0.0	103	0.00	7.36
3		ethanol	0.122	0.129	-5.7	105	-0.02	6.00
4	M	1,4-dioxane	0.112	0.127	-13.4	109	0.00	11.13
5	I	pentafluorobenzene	1.000	1.000	0.0	105	0.00	9.48
6	M	dichlorodifluoromethane	0.659	0.431	34.6#	70	0.00	3.79
7		chlorodifluoromethane		----------NA----------				
8	M	chloromethane	0.704	0.583	17.2	94	0.00	4.20
9	M	vinyl chloride	0.607	0.514	15.3	90	0.00	4.42
10		1,3-butadiene	0.407	0.466	-14.5	124	0.00	4.50
11	M	bromomethane	0.395	0.340	13.9	104	0.02	5.09
12	M	chloroethane	0.307	0.272	11.4	94	0.00	5.27
13	M	trichlorofluoromethane	0.670	0.585	12.7	91	0.00	5.71
14	M	ethyl ether	0.183	0.203	-10.9	112	0.00	6.14
15	M	acrolein	0.063	0.046	27.0	74	0.00	6.42
16		freon 113	0.314	0.309	1.6	102	0.00	6.50
17	M	1,1-dichloroethene	0.372	0.353	5.1	107	0.00	6.56
18	M	acetone	0.120	0.109	9.2	111	0.00	6.64
19	M	acetonitrile		----------NA----------				
		----------	True	Calc.	% Drift	----------		
20	M	iodomethane	50.000	41.995	16.0	88	0.00	6.85
		----------	AvgRF	CCRF	% Dev	----------		
21	M	carbon disulfide	1.289	1.291	-0.2	112	0.00	6.97
22	M	methylene chloride	0.421	0.405	3.8	107	0.00	7.30
23	M	methyl acetate	0.279	0.259	7.2	97	0.00	7.09
24	M	methyl tert butyl ether	0.908	0.998	-9.9	110	0.00	7.59
25	M	trans-1,2-dichloroethene	0.420	0.399	5.0	106	0.00	7.66
26	M	di-isopropyl ether	1.303	1.277	2.0	100	0.00	8.19
27	M	2-butanone	0.038	0.041	-7.9	105	0.00	8.94
28	M	1,1-dichloroethane	0.693	0.714	-3.0	106	0.00	8.24
29	M	chloroprene	0.566	0.616	-8.8	112	0.00	8.34
30	M	acrylonitrile		----------NA----------				
31		hexane	0.671	0.629	6.3	100	0.00	7.95
32	M	vinyl acetate	0.057	0.055	3.5	92	0.00	8.22
33	M	ethyl tert-butyl ether	1.172	1.169	0.3	99	0.00	8.66
34	M	ethyl acetate	0.055	0.055	0.0	105	0.00	8.95
35	M	2,2-dichloropropane	0.592	0.580	2.0	105	0.00	8.96
36	M	cis-1,2-dichloroethene	0.447	0.449	-0.4	110	0.00	8.97
37		methyl acrylate	0.048	0.052	-8.3	104	0.00	9.04

Initial Calibration Verification

Job Number: JD29923 **Sample:** V1C7827-ICV7827
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1C179477.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

38	M	propionitrile	0.048	0.049	-2.1	106	0.00	9.05
39	M	bromochloromethane	0.197	0.207	-5.1	110	0.00	9.29
40	M	tetrahydrofuran	0.125	0.111	11.2	98	0.00	9.32
41	M	chloroform	0.485	0.467	3.7	106	0.00	9.35
42	M	t-butyl formate	0.288	0.175	39.2#	59	0.00	9.36
43	S	dibromofluoromethane (s)	0.457	0.464	-1.5	105	0.00	9.54
44	M	methacrylonitrile	0.136	0.142	-4.4	106	0.00	9.23
45	M	1,1,1-trichloroethane	0.604	0.604	0.0	107	0.00	9.58
46		cyclohexane	0.583	0.599	-2.7	110	0.00	9.64
47		1,1-dichloropropene	0.537	0.556	-3.5	106	0.00	9.76
48		iso-butyl alcohol	0.017	0.015	11.8	102	0.00	9.78
49		carbon tetrachloride	0.531	0.537	-1.1	106	0.00	9.78
50		tert amyl alcohol	0.014	0.013	7.1	108	0.00	9.89
51	I	1,4-difluorobenzene	1.000	1.000	0.0	105	0.00	10.40
52	S	1,2-dichloroethane-d4 (s)	0.287	0.281	2.1	104	0.00	9.96
53	M	n-butyl alcohol	0.007	0.007#	0.0	100	0.00	10.53
54		2,2,4-trimethylpentane	1.144	1.009	11.8	97	0.00	10.00
55	M	benzene	1.031	1.033	-0.2	108	0.00	10.03
56	M	tert-amyl methyl ether	0.161	0.148	8.1	95	0.00	10.04
57	M	heptane	0.246	0.236	4.1	105	0.00	10.18
58	M	isopropyl acetate	0.046	0.046	0.0	101	0.00	9.94
59	M	1,2-dichloroethane	0.304	0.300	1.3	108	0.00	10.05
60	M	trichloroethene	0.279	0.289	-3.6	109	0.00	10.74
61		ethyl acrylate	0.291	0.282	3.1	102	0.00	10.74
62	M	2-nitropropane		----------NA----------				
63	M	2-chloroethyl vinyl ether	0.148	0.148	0.0	102	0.00	11.54
64	M	methyl methacrylate	0.051	0.055	-7.8	107	0.00	11.01
65	M	1,2-dichloropropane	0.264	0.272	-3.0	106	0.00	11.01
66	M	dibromomethane	0.152	0.155	-2.0	107	0.00	11.18
67	M	methylcyclohexane	0.469	0.456	2.8	103	0.00	10.94
68	M	bromodichloromethane	0.343	0.351	-2.3	106	0.00	11.31
69		epichlorohydrin	0.024	0.023	4.2	104	0.00	11.67
70	M	cis-1,3-dichloropropene	0.421	0.427	-1.4	104	0.00	11.76
71	M	4-methyl-2-pentanone	0.086	0.085	1.2	101	0.00	11.85
72	M	3-methyl-1-butanol	0.011	0.010	9.1	99	0.00	11.87
73	I	chlorobenzene-d5	1.000	1.000	0.0	106	0.00	13.55
74	S	toluene-d8 (s)	1.319	1.291	2.1	105	0.00	12.04
75		toluene	0.774	0.744	3.9	108	0.00	12.11
76		trans-1,3-dichloropropene	0.412	0.448	-8.7	110	0.00	12.32
77		ethyl methacrylate	0.342	0.349	-2.0	105	0.00	12.30
78		1,1,2-trichloroethane	0.217	0.227	-4.6	108	0.00	12.54
79	M	tetrachloroethene		----------NA----------				
80	M	1,3-dichloropropane	0.397	0.408	-2.8	107	0.00	12.71
81		2-hexanone	0.099	0.100	-1.0	104	0.00	12.69
82	M	butyl acetate	0.178	0.173	2.8	107	0.00	12.76
83	M	dibromochloromethane	0.308	0.330	-7.1	110	0.00	12.98
84	M	1,2-dibromoethane	0.255	0.275	-7.8	108	0.00	13.13
85		n-butyl ether	1.360	1.266	6.9	101	0.00	13.47
86	M	chlorobenzene	0.798	0.799	-0.1	107	0.00	13.58
87	M	1,1,1,2-tetrachloroethane	0.296	0.300	-1.4	108	0.00	13.64
88	M	ethylbenzene	1.437	1.367	4.9	106	0.00	13.62
89	M	m,p-xylene	0.527	0.517	1.9	108	0.00	13.73
90	M	o-xylene	0.507	0.512	-1.0	110	0.00	14.15
91	M	styrene	0.870	0.868	0.2	107	0.00	14.16
92	M	bromoform	0.216	0.226	-4.6	109	0.00	14.44
93		butyl acrylate	0.539	0.532	1.3	105	0.00	13.97
94		isopropylbenzene	1.380	1.333	3.4	105	0.00	14.49
95		cis-1,4-dichloro-2-butene	0.105	0.105	0.0	106	0.00	14.58

Initial Calibration Verification

Job Number: JD29923 **Sample:** V1C7827-ICV7827
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1C179477.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

96	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	106	0.00	15.87
97	S	4-bromofluorobenzene (s)	0.974	0.977	-0.3	105	0.00	14.70
98	M	bromobenzene	0.731	0.751	-2.7	108	0.00	14.89
99	M	1,1,2,2-tetrachloroethane	0.682	0.682	0.0	104	0.00	14.81
100	M	trans-1,4-dichloro-2-bute	0.176	0.174	1.1	105	0.00	14.85
101	M	1,2,3-trichloropropane	0.155	0.161	-3.9	107	0.00	14.88
102	M	n-propylbenzene	3.572	3.445	3.6	107	0.00	14.89
103	M	2-chlorotoluene	0.672	0.682	-1.5	107	0.00	15.05
104	M	4-chlorotoluene	2.128	2.006	5.7	107	0.00	15.15
105	M	1,3,5-trimethylbenzene	2.281	2.263	0.8	107	0.00	15.05
106	M	tert-butylbenzene	0.429	0.437	-1.9	108	0.00	15.39
107	M	1,2,4-trimethylbenzene	2.297	2.315	-0.8	107	0.00	15.44
108	M	sec-butylbenzene	3.121	3.077	1.4	105	0.00	15.61
109	M	1,3-dichlorobenzene	1.344	1.349	-0.4	105	0.00	15.81
110	M	p-isopropyltoluene	2.573	2.509	2.5	106	0.00	15.73
111		1,2,3-trimethylbenzene		----------NA----------				
112	M	1,4-dichlorobenzene	1.360	1.328	2.4	107	0.00	15.89
113		benzyl chloride	1.290	1.181	8.4	97	0.00	16.01
114	M	1,2-dichlorobenzene	1.293	1.317	-1.9	107	0.00	16.29
115	M	n-butylbenzene	1.411	1.355	4.0	103	0.00	16.15
116	M	1,2-dibromo-3-chloropropa	0.122	0.125	-2.5	105	0.00	17.09
117		1,3,5-trichlorobenzene	1.023	1.016	0.7	105	0.00	17.25
118		2-ethylhexyl acrylate	0.611	0.632	-3.4	106	0.00	17.79
119	M	1,2,4-trichlorobenzene	0.844	0.865	-2.5	106	0.00	17.83
120	M	hexachlorobutadiene	0.504	0.496	1.6	102	0.00	17.92
121	M	naphthalene	1.749	1.840	-5.2	108	0.00	18.07
122	M	1,2,3-trichlorobenzene	0.750	0.799	-6.5	108	0.00	18.28
123	m	hexachloroethane	0.450	0.488	-8.4	108	0.00	16.55
124		2-methylnaphthalene	1.051	1.188	-13.0	111	0.00	19.04

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1C179472.D M1CS7827.M Fri Jul 16 20:48:51 2021

Initial Calibration Verification

Job Number: JD29923 **Sample:** V1C7827-ICV7827
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1C179478.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\V1C7827\1C179478.D Vial: 15
Acq On : 16 Jul 2021 1:27 am Operator: PrashanS
Sample : ICV7827-50 Inst : GCMS1C
Misc : MS52150,V1C7827,5.0,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M (RTE Integrator)
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
Last Update : Fri Jul 16 20:43:13 2021
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		tert butyl alcohol-d9	1.000	1.000	0.0	98	0.00	7.24
2	M	tertiary butyl alcohol		----------NA----------				
3		ethanol		----------NA----------				
4	M	1,4-dioxane		----------NA----------				
5	I	pentafluorobenzene	1.000	1.000	0.0	109	0.00	9.48
6	M	dichlorodifluoromethane		----------NA----------				
7		chlorodifluoromethane	0.445	0.576	-29.4	142	0.00	3.83
8	M	chloromethane		----------NA----------				
9	M	vinyl chloride		----------NA----------				
10		1,3-butadiene		----------NA----------				
11	M	bromomethane		----------NA----------				
12	M	chloroethane		----------NA----------				
13	M	trichlorofluoromethane		----------NA----------				
14	M	ethyl ether		----------NA----------				
15	M	acrolein		----------NA----------				
16		freon 113		----------NA----------				
17	M	1,1-dichloroethene		----------NA----------				
18	M	acetone		----------NA----------				
19	M	acetonitrile	0.047	0.044	6.4	105	0.00	7.09
		----------	True	Calc.	% Drift	----------		
20	M	iodomethane		----------NA----------				
		----------	AvgRF	CCRF	% Dev	----------		
21	M	carbon disulfide		----------NA----------				
22	M	methylene chloride		----------NA----------				
23	M	methyl acetate		----------NA----------				
24	M	methyl tert butyl ether		----------NA----------				
25	M	trans-1,2-dichloroethene		----------NA----------				
26	M	di-isopropyl ether		----------NA----------				
27	M	2-butanone		----------NA----------				
28	M	1,1-dichloroethane		----------NA----------				
29	M	chloroprene		----------NA----------				
30	M	acrylonitrile	0.119	0.120	-0.8	106	0.01	7.65
31		hexane		----------NA----------				
32	M	vinyl acetate		----------NA----------				
33	M	ethyl tert-butyl ether		----------NA----------				
34	M	ethyl acetate		----------NA----------				
35	M	2,2-dichloropropane		----------NA----------				
36	M	cis-1,2-dichloroethene		----------NA----------				
37		methyl acrylate		----------NA----------				

Initial Calibration Verification

Job Number: JD29923 **Sample:** V1C7827-ICV7827
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1C179478.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

38	M	propionitrile		----------NA----------					
39	M	bromochloromethane		----------NA----------					
40	M	tetrahydrofuran		----------NA----------					
41	M	chloroform		----------NA----------					
42	M	t-butyl formate		----------NA----------					
43	S	dibromofluoromethane (s)	0.457	0.459	-0.4	108	0.00	9.54	
44	M	methacrylonitrile		----------NA----------					
45	M	1,1,1-trichloroethane		----------NA----------					
46		cyclohexane		----------NA----------					
47		1,1-dichloropropene		----------NA----------					
48		iso-butyl alcohol		----------NA----------					
49		carbon tetrachloride		----------NA----------					
50		tert amyl alcohol		----------NA----------					
51	I	1,4-difluorobenzene	1.000	1.000	0.0	105	0.00	10.40	
52	S	1,2-dichloroethane-d4 (s)	0.287	0.287	0.0	106	0.00	9.96	
53	M	n-butyl alcohol		----------NA----------					
54		2,2,4-trimethylpentane		----------NA----------					
55	M	benzene		----------NA----------					
56	M	tert-amyl methyl ether		----------NA----------					
57	M	heptane		----------NA----------					
58	M	isopropyl acetate		----------NA----------					
59	M	1,2-dichloroethane		----------NA----------					
60	M	trichloroethene		----------NA----------					
61		ethyl acrylate		----------NA----------					
62	M	2-nitropropane		----------NA----------					
63	M	2-chloroethyl vinyl ether		----------NA----------					
64	M	methyl methacrylate		----------NA----------					
65	M	1,2-dichloropropane		----------NA----------					
66	M	dibromomethane		----------NA----------					
67	M	methylcyclohexane		----------NA----------					
68	M	bromodichloromethane		----------NA----------					
69		epichlorohydrin		----------NA----------					
70	M	cis-1,3-dichloropropene		----------NA----------					
71	M	4-methyl-2-pentanone		----------NA----------					
72	M	3-methyl-1-butanol		----------NA----------					
73	I	chlorobenzene-d5	1.000	1.000	0.0	108	0.00	13.55	
74	S	toluene-d8 (s)	1.319	1.301	1.4	108	0.00	12.04	
75		toluene		----------NA----------					
76		trans-1,3-dichloropropene		----------NA----------					
77		ethyl methacrylate		----------NA----------					
78		1,1,2-trichloroethane		----------NA----------					
79	M	tetrachloroethene	0.268	0.262	2.2	106	0.00	12.69	
80	M	1,3-dichloropropane		----------NA----------					
81		2-hexanone		----------NA----------					
82	M	butyl acetate		----------NA----------					
83	M	dibromochloromethane		----------NA----------					
84	M	1,2-dibromoethane		----------NA----------					
85		n-butyl ether		----------NA----------					
86	M	chlorobenzene		----------NA----------					
87	M	1,1,1,2-tetrachloroethane		----------NA----------					
88	M	ethylbenzene		----------NA----------					
89	M	m,p-xylene		----------NA----------					
90	M	o-xylene		----------NA----------					
91	M	styrene		----------NA----------					
92	M	bromoform		----------NA----------					
93		butyl acrylate		----------NA----------					
94		isopropylbenzene		----------NA----------					
95		cis-1,4-dichloro-2-butene		----------NA----------					

Initial Calibration Verification

Job Number: JD29923 **Sample:** V1C7827-ICV7827
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1C179478.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

96	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	109	0.00	15.87
97	S	4-bromofluorobenzene (s)	0.974	0.955	2.0	106	0.00	14.70
98	M	bromobenzene		----------NA----------				
99	M	1,1,2,2-tetrachloroethane		----------NA----------				
100	M	trans-1,4-dichloro-2-bute		----------NA----------				
101	M	1,2,3-trichloropropane		----------NA----------				
102	M	n-propylbenzene		----------NA----------				
103	M	2-chlorotoluene		----------NA----------				
104	M	4-chlorotoluene		----------NA----------				
105	M	1,3,5-trimethylbenzene		----------NA----------				
106	M	tert-butylbenzene		----------NA----------				
107	M	1,2,4-trimethylbenzene		----------NA----------				
108	M	sec-butylbenzene		----------NA----------				
109	M	1,3-dichlorobenzene		----------NA----------				
110	M	p-isopropyltoluene		----------NA----------				
111		1,2,3-trimethylbenzene	2.351	2.233	5.0	106	0.00	15.89
112	M	1,4-dichlorobenzene		----------NA----------				
113		benzyl chloride		----------NA----------				
114	M	1,2-dichlorobenzene		----------NA----------				
115	M	n-butylbenzene		----------NA----------				
116	M	1,2-dibromo-3-chloropropa		----------NA----------				
117		1,3,5-trichlorobenzene		----------NA----------				
118		2-ethylhexyl acrylate		----------NA----------				
119	M	1,2,4-trichlorobenzene		----------NA----------				
120	M	hexachlorobutadiene		----------NA----------				
121	M	naphthalene		----------NA----------				
122	M	1,2,3-trichlorobenzene		----------NA----------				
123	m	hexachloroethane		----------NA----------				
124		2-methylnaphthalene		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1C179472.D M1CS7827.M Fri Jul 16 20:48:53 2021

6.8.3

6

Initial Calibration Verification

Job Number: JD29923 **Sample:** V1C7827-ICV7827
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1C179481.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\V1C7827\1C179481.D Vial: 18
Acq On : 16 Jul 2021 11:34 am Operator: PrashanS
Sample : ICV7827-50 Inst : GCMS1C
Misc : MS52150,V1C7827,5.0,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M (RTE Integrator)
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
Last Update : Fri Jul 16 20:43:13 2021
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		tert butyl alcohol-d9	1.000	1.000	0.0	100	-0.01	7.24
2	M	tertiary butyl alcohol		----------NA----------				
3		ethanol		----------NA----------				
4	M	1,4-dioxane		----------NA----------				
5	I	pentafluorobenzene	1.000	1.000	0.0	99	0.00	9.48
6	M	dichlorodifluoromethane	0.659	0.608	7.7	92	0.00	3.79
7		chlorodifluoromethane		----------NA----------				
8	M	chloromethane		----------NA----------				
9	M	vinyl chloride		----------NA----------				
10		1,3-butadiene		----------NA----------				
11	M	bromomethane		----------NA----------				
12	M	chloroethane		----------NA----------				
13	M	trichlorofluoromethane		----------NA----------				
14	M	ethyl ether		----------NA----------				
15	M	acrolein		----------NA----------				
16		freon 113		----------NA----------				
17	M	1,1-dichloroethene		----------NA----------				
18	M	acetone		----------NA----------				
19	M	acetonitrile		----------NA----------				
		----------	True	Calc.	% Drift	----------		
20	M	iodomethane		----------NA----------				
		----------	AvgRF	CCRF	% Dev	----------		
21	M	carbon disulfide		----------NA----------				
22	M	methylene chloride		----------NA----------				
23	M	methyl acetate		----------NA----------				
24	M	methyl tert butyl ether		----------NA----------				
25	M	trans-1,2-dichloroethene		----------NA----------				
26	M	di-isopropyl ether		----------NA----------				
27	M	2-butanone		----------NA----------				
28	M	1,1-dichloroethane		----------NA----------				
29	M	chloroprene		----------NA----------				
30	M	acrylonitrile		----------NA----------				
31		hexane		----------NA----------				
32	M	vinyl acetate		----------NA----------				
33	M	ethyl tert-butyl ether		----------NA----------				
34	M	ethyl acetate		----------NA----------				
35	M	2,2-dichloropropane		----------NA----------				
36	M	cis-1,2-dichloroethene		----------NA----------				
37		methyl acrylate		----------NA----------				

Initial Calibration Verification

Job Number: JD29923 **Sample:** V1C7827-ICV7827
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1C179481.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

38	M	propionitrile			----------NA----------				
39	M	bromochloromethane			----------NA----------				
40	M	tetrahydrofuran			----------NA----------				
41	M	chloroform			----------NA----------				
42	M	t-butyl formate			----------NA----------				
43	S	dibromofluoromethane (s)	0.457	0.455	0.4	97	0.00	9.54	
44	M	methacrylonitrile			----------NA----------				
45	M	1,1,1-trichloroethane			----------NA----------				
46		cyclohexane			----------NA----------				
47		1,1-dichloropropene			----------NA----------				
48		iso-butyl alcohol			----------NA----------				
49		carbon tetrachloride			----------NA----------				
50		tert amyl alcohol			----------NA----------				
51	I	1,4-difluorobenzene	1.000	1.000	0.0	96	0.00	10.40	
52	S	1,2-dichloroethane-d4 (s)	0.287	0.285	0.7	96	0.00	9.96	
53	M	n-butyl alcohol			----------NA----------				
54		2,2,4-trimethylpentane			----------NA----------				
55	M	benzene			----------NA----------				
56	M	tert-amyl methyl ether			----------NA----------				
57	M	heptane			----------NA----------				
58	M	isopropyl acetate			----------NA----------				
59	M	1,2-dichloroethane			----------NA----------				
60	M	trichloroethene			----------NA----------				
61		ethyl acrylate			----------NA----------				
62	M	2-nitropropane			----------NA----------				
63	M	2-chloroethyl vinyl ether			----------NA----------				
64	M	methyl methacrylate			----------NA----------				
65	M	1,2-dichloropropane			----------NA----------				
66	M	dibromomethane			----------NA----------				
67	M	methylcyclohexane			----------NA----------				
68	M	bromodichloromethane			----------NA----------				
69		epichlorohydrin			----------NA----------				
70	M	cis-1,3-dichloropropene			----------NA----------				
71	M	4-methyl-2-pentanone			----------NA----------				
72	M	3-methyl-1-butanol			----------NA----------				
73	I	chlorobenzene-d5	1.000	1.000	0.0	97	0.00	13.55	
74	S	toluene-d8 (s)	1.319	1.328	-0.7	98	0.00	12.04	
75		toluene			----------NA----------				
76		trans-1,3-dichloropropene			----------NA----------				
77		ethyl methacrylate			----------NA----------				
78		1,1,2-trichloroethane			----------NA----------				
79	M	tetrachloroethene			----------NA----------				
80	M	1,3-dichloropropane			----------NA----------				
81		2-hexanone			----------NA----------				
82	M	butyl acetate			----------NA----------				
83	M	dibromochloromethane			----------NA----------				
84	M	1,2-dibromoethane			----------NA----------				
85		n-butyl ether			----------NA----------				
86	M	chlorobenzene			----------NA----------				
87	M	1,1,1,2-tetrachloroethane			----------NA----------				
88	M	ethylbenzene			----------NA----------				
89	M	m,p-xylene			----------NA----------				
90	M	o-xylene			----------NA----------				
91	M	styrene			----------NA----------				
92	M	bromoform			----------NA----------				
93		butyl acrylate			----------NA----------				
94		isopropylbenzene			----------NA----------				
95		cis-1,4-dichloro-2-butene			----------NA----------				

Initial Calibration Verification

Job Number: JD29923 **Sample:** V1C7827-ICV7827
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1C179481.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

96	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	96	0.00	15.87
97	S	4-bromofluorobenzene (s)	0.974	0.966	0.8	94	0.00	14.70
98	M	bromobenzene	----------NA----------					
99	M	1,1,2,2-tetrachloroethane	----------NA----------					
100	M	trans-1,4-dichloro-2-bute	----------NA----------					
101	M	1,2,3-trichloropropane	----------NA----------					
102	M	n-propylbenzene	----------NA----------					
103	M	2-chlorotoluene	----------NA----------					
104	M	4-chlorotoluene	----------NA----------					
105	M	1,3,5-trimethylbenzene	----------NA----------					
106	M	tert-butylbenzene	----------NA----------					
107	M	1,2,4-trimethylbenzene	----------NA----------					
108	M	sec-butylbenzene	----------NA----------					
109	M	1,3-dichlorobenzene	----------NA----------					
110	M	p-isopropyltoluene	----------NA----------					
111		1,2,3-trimethylbenzene	----------NA----------					
112	M	1,4-dichlorobenzene	----------NA----------					
113		benzyl chloride	----------NA----------					
114	M	1,2-dichlorobenzene	----------NA----------					
115	M	n-butylbenzene	----------NA----------					
116	M	1,2-dibromo-3-chloropropa	----------NA----------					
117		1,3,5-trichlorobenzene	----------NA----------					
118		2-ethylhexyl acrylate	----------NA----------					
119	M	1,2,4-trichlorobenzene	----------NA----------					
120	M	hexachlorobutadiene	----------NA----------					
121	M	naphthalene	----------NA----------					
122	M	1,2,3-trichlorobenzene	----------NA----------					
123	m	hexachloroethane	----------NA----------					
124		2-methylnaphthalene	----------NA----------					

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1C179472.D M1CS7827.M Fri Jul 16 20:48:55 2021

Continuing Calibration Summary

Job Number: JD29923 **Sample:** V1C7855-CC7827
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1C180226.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ni...21\v1c7855\1c180226.d Vial: 1
Acq On : 18 Aug 2021 10:17 am Operator: PrashanS
Sample : cc7827-50 Inst : GCMS1C
Misc : MS52972,V1C7855,5.0,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M (RTE Integrator)
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
Last Update : Fri Jul 23 17:44:22 2021
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		tert butyl alcohol-d9	1.000	1.000	0.0	104	0.00	7.24
2	M	tertiary butyl alcohol	1.215	1.099	9.5	98	0.00	7.36
3		ethanol	0.122	0.121	0.8	103	-0.01	6.01
4	M	1,4-dioxane	0.112	0.112	0.0	101	0.00	11.13
5	I	pentafluorobenzene	1.000	1.000	0.0	98	0.00	9.48
6	M	dichlorodifluoromethane	0.659	0.510	22.6#	77	0.00	3.79
7		chlorodifluoromethane	0.445	0.486	-9.2	108	0.00	3.82
8	M	chloromethane	0.704	0.578	17.9	87	0.00	4.20
9	M	vinyl chloride	0.607	0.527	13.2	86	0.00	4.42
10		1,3-butadiene	0.407	0.371	8.8	92	0.00	4.50
11	M	bromomethane	0.395	0.317	19.7	91	0.02	5.09
12	M	chloroethane	0.307	0.279	9.1	90	0.00	5.27
13	M	trichlorofluoromethane	0.670	0.633	5.5	91	0.00	5.71
14	M	ethyl ether	0.183	0.183	0.0	94	0.00	6.14
15	M	acrolein	0.063	0.054	14.3	80	0.00	6.42
16		freon 113	0.314	0.298	5.1	92	0.00	6.50
17	M	1,1-dichloroethene	0.372	0.335	9.9	95	0.00	6.56
18	M	acetone	0.120	0.113	5.8	107	0.00	6.63
19	M	acetonitrile	0.047	0.048	-2.1	104	0.00	7.08
		----------	True	Calc.	% Drift	----------		
20	M	iodomethane	50.000	40.941	18.1	80	0.00	6.85
		----------	AvgRF	CCRF	% Dev	----------		
21	M	carbon disulfide	1.289	1.203	6.7	98	0.00	6.97
22	M	methylene chloride	0.421	0.399	5.2	98	0.00	7.30
23	M	methyl acetate	0.279	0.276	1.1	97	0.00	7.09
24	M	methyl tert butyl ether	0.908	0.926	-2.0	95	0.00	7.59
25	M	trans-1,2-dichloroethene	0.420	0.391	6.9	97	0.00	7.66
26	M	di-isopropyl ether	1.303	1.327	-1.8	97	0.00	8.18
27	M	2-butanone	0.038	0.039	-2.6	94	0.00	8.94
28	M	1,1-dichloroethane	0.693	0.710	-2.5	99	0.00	8.23
29	M	chloroprene	0.566	0.567	-0.2	96	0.00	8.34
30	M	acrylonitrile	0.119	0.101	15.1	80	0.00	7.64
31		hexane	0.671	0.627	6.6	93	0.00	7.95
32	M	vinyl acetate	0.057	0.057	0.0	89	0.00	8.22
33	M	ethyl tert-butyl ether	1.172	1.195	-2.0	95	0.00	8.65
34	M	ethyl acetate	0.055	0.055	0.0	96	0.00	8.95
35	M	2,2-dichloropropane	0.592	0.597	-0.8	101	0.00	8.96
36	M	cis-1,2-dichloroethene	0.447	0.417	6.7	95	0.00	8.97
37		methyl acrylate	0.048	0.052	-8.3	98	0.00	9.03

Continuing Calibration Summary

Job Number: JD29923 **Sample:** V1C7855-CC7827
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1C180226.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

38	M	propionitrile	0.048	0.052	-8.3	104	0.00	9.05
39	M	bromochloromethane	0.197	0.188	4.6	93	0.00	9.28
40	M	tetrahydrofuran	0.125	0.126	-0.8	104	0.00	9.32
41	M	chloroform	0.485	0.466	3.9	99	0.00	9.34
42	M	t-butyl formate	0.288	0.310	-7.6	98	0.00	9.36
43	S	dibromofluoromethane (s)	0.457	0.488	-6.8	103	0.00	9.54
44	M	methacrylonitrile	0.136	0.142	-4.4	100	0.00	9.23
45	M	1,1,1-trichloroethane	0.604	0.611	-1.2	101	0.00	9.58
46		cyclohexane	0.583	0.510	12.5	87	0.00	9.64
47		1,1-dichloropropene	0.537	0.545	-1.5	97	0.00	9.76
48		iso-butyl alcohol	0.017	0.015	11.8	96	0.00	9.78
49		carbon tetrachloride	0.531	0.536	-0.9	98	0.00	9.78
50		tert amyl alcohol	0.014	0.014	0.0	102	0.00	9.89
51	I	1,4-difluorobenzene	1.000	1.000	0.0	99	0.00	10.40
52	S	1,2-dichloroethane-d4 (s)	0.287	0.311	-8.4	108	0.00	9.96
53	M	n-butyl alcohol	0.007	0.007#	0.0	95	0.00	10.53
54		2,2,4-trimethylpentane	1.144	1.029	10.1	93	0.00	10.00
55	M	benzene	1.031	0.975	5.4	96	0.00	10.03
56	M	tert-amyl methyl ether	0.161	0.156	3.1	94	0.00	10.04
57	M	heptane	0.246	0.216	12.2	90	0.00	10.17
58	M	isopropyl acetate	0.046	0.045	2.2	93	0.00	9.95
59	M	1,2-dichloroethane	0.304	0.292	3.9	99	0.00	10.05
60	M	trichloroethene	0.279	0.267	4.3	95	0.00	10.74
61		ethyl acrylate	0.291	0.279	4.1	95	0.00	10.74
62	M	2-nitropropane		----------NA----------				
63	M	2-chloroethyl vinyl ether	0.148	0.145	2.0	94	0.00	11.54
64	M	methyl methacrylate	0.051	0.050	2.0	92	0.00	11.01
65	M	1,2-dichloropropane	0.264	0.259	1.9	95	0.00	11.01
66	M	dibromomethane	0.152	0.146	3.9	95	0.00	11.18
67	M	methylcyclohexane	0.469	0.426	9.2	91	0.00	10.94
68	M	bromodichloromethane	0.343	0.340	0.9	97	0.00	11.30
69		epichlorohydrin	0.024	0.024	0.0	100	0.00	11.67
70	M	cis-1,3-dichloropropene	0.421	0.410	2.6	94	0.00	11.76
71	M	4-methyl-2-pentanone	0.086	0.079	8.1	88	0.00	11.85
72	M	3-methyl-1-butanol	0.011	0.010	9.1	90	0.00	11.87
73	I	chlorobenzene-d5	1.000	1.000	0.0	97	0.00	13.55
74	S	toluene-d8 (s)	1.319	1.356	-2.8	101	0.00	12.03
75		toluene	0.774	0.694	10.3	92	0.00	12.11
76		trans-1,3-dichloropropene	0.412	0.423	-2.7	95	0.00	12.32
77		ethyl methacrylate	0.342	0.324	5.3	89	0.00	12.30
78		1,1,2-trichloroethane	0.217	0.208	4.1	90	0.00	12.53
79	M	tetrachloroethene	0.268	0.248	7.5	90	0.00	12.69
80	M	1,3-dichloropropane	0.397	0.382	3.8	91	0.00	12.71
81		2-hexanone	0.099	0.096	3.0	91	0.00	12.69
82	M	butyl acetate	0.178	0.168	5.6	95	0.00	12.76
83	M	dibromochloromethane	0.308	0.299	2.9	91	0.00	12.98
84	M	1,2-dibromoethane	0.255	0.248	2.7	89	0.00	13.13
85		n-butyl ether	1.360	1.216	10.6	89	0.00	13.47
86	M	chlorobenzene	0.798	0.736	7.8	90	0.00	13.58
87	M	1,1,1,2-tetrachloroethane	0.296	0.276	6.8	91	0.00	13.64
88	M	ethylbenzene	1.437	1.296	9.8	92	0.00	13.62
89	M	m,p-xylene	0.527	0.471	10.6	89	0.00	13.73
90	M	o-xylene	0.507	0.462	8.9	90	0.00	14.15
91	M	styrene	0.870	0.796	8.5	90	0.00	14.16
92	M	bromoform	0.216	0.210	2.8	93	0.00	14.44
93		butyl acrylate	0.539	0.482	10.6	86	0.00	13.97
94		isopropylbenzene	1.380	1.252	9.3	90	0.00	14.49
95		cis-1,4-dichloro-2-butene	0.105	0.108	-2.9	100	0.00	14.58

Continuing Calibration Summary

Job Number: JD29923 **Sample:** V1C7855-CC7827
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1C180226.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

96	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	98	0.00	15.87
97	S	4-bromofluorobenzene (s)	0.974	0.980	-0.6	97	0.00	14.70
98	M	bromobenzene	0.731	0.669	8.5	89	0.00	14.90
99	M	1,1,2,2-tetrachloroethane	0.682	0.618	9.4	87	0.00	14.81
100	M	trans-1,4-dichloro-2-bute	0.176	0.171	2.8	95	0.00	14.85
101	M	1,2,3-trichloropropane	0.155	0.150	3.2	92	0.00	14.88
102	M	n-propylbenzene	3.572	3.171	11.2	91	0.00	14.90
103	M	2-chlorotoluene	0.672	0.619	7.9	90	0.00	15.05
104	M	4-chlorotoluene	2.128	1.862	12.5	92	0.00	15.15
105	M	1,3,5-trimethylbenzene	2.281	2.095	8.2	91	0.00	15.04
106	M	tert-butylbenzene	0.429	0.390	9.1	89	0.00	15.39
107	M	1,2,4-trimethylbenzene	2.297	2.140	6.8	92	0.00	15.44
108	M	sec-butylbenzene	3.121	2.836	9.1	90	0.00	15.61
109	M	1,3-dichlorobenzene	1.344	1.262	6.1	91	0.00	15.81
110	M	p-isopropyltoluene	2.573	2.352	8.6	92	0.00	15.73
111		1,2,3-trimethylbenzene	2.351	2.114	10.1	90	0.00	15.89
112	M	1,4-dichlorobenzene	1.360	1.226	9.9	91	0.00	15.89
113		benzyl chloride	1.290	1.309	-1.5	100	0.00	16.01
114	M	1,2-dichlorobenzene	1.293	1.204	6.9	91	0.00	16.29
115	M	n-butylbenzene	1.411	1.302	7.7	92	0.00	16.15
116	M	1,2-dibromo-3-chloropropa	0.122	0.120	1.6	93	0.00	17.09
117		1,3,5-trichlorobenzene	1.023	1.008	1.5	96	0.00	17.25
118		2-ethylhexyl acrylate	0.611	0.489	20.0	76	0.00	17.79
119	M	1,2,4-trichlorobenzene	0.844	0.818	3.1	93	0.00	17.82
120	M	hexachlorobutadiene	0.504	0.501	0.6	95	0.00	17.92
121	M	naphthalene	1.749	1.608	8.1	87	0.00	18.07
122	M	1,2,3-trichlorobenzene	0.750	0.727	3.1	91	0.00	18.28
123	m	hexachloroethane	0.450	0.460	-2.2	94	0.00	16.55
124		2-methylnaphthalene	1.051	0.975	7.2	84	0.00	19.03
125		pentafluorobenzene(a)	1.000	1.000	0.0	87	0.00	9.48
126		vinyl bromide	----------NA----------					

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1C179472.D M1CS7827.M Thu Aug 19 03:56:31 2021

Continuing Calibration Summary

Job Number: JD29923 **Sample:** V1C7856-CC7827
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1C180256.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\da...c7856-rush\1c180256.d Vial: 1
Acq On : 19 Aug 2021 10:20 am Operator: PrashanS
Sample : CC7827-50 Inst : GCMS1C
Misc : MS53008,V1C7856,5.0,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M (RTE Integrator)
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
Last Update : Fri Jul 23 17:44:22 2021
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		tert butyl alcohol-d9	1.000	1.000	0.0	101	0.00	7.24
2	M	tertiary butyl alcohol	1.215	1.353	-11.4	117	0.00	7.36
3		ethanol	0.122	0.147	-20.5#	121	-0.02	6.00
4	M	1,4-dioxane	0.112	0.137	-22.3#	120	0.00	11.13
5	I	pentafluorobenzene	1.000	1.000	0.0	100	0.00	9.48
6	M	dichlorodifluoromethane	0.659	0.615	6.7	95	0.00	3.79
7		chlorodifluoromethane	0.445	0.579	-30.1#	131	0.00	3.83
8	M	chloromethane	0.704	0.687	2.4	106	0.00	4.20
9	M	vinyl chloride	0.607	0.635	-4.6	106	0.00	4.42
10		1,3-butadiene	0.407	0.444	-9.1	113	0.00	4.50
11	M	bromomethane	0.395	0.378	4.3	110	0.02	5.09
12	M	chloroethane	0.307	0.333	-8.5	110	0.00	5.27
13	M	trichlorofluoromethane	0.670	0.752	-12.2	111	0.00	5.71
14	M	ethyl ether	0.183	0.219	-19.7	115	0.00	6.14
15	M	acrolein	0.063	0.059	6.3	89	0.00	6.42
16		freon 113	0.314	0.350	-11.5	110	0.00	6.51
17	M	1,1-dichloroethene	0.372	0.389	-4.6	112	0.00	6.56
18	M	acetone	0.120	0.129	-7.5	125	0.00	6.63
19	M	acetonitrile	0.047	0.055	-17.0	121	0.00	7.09
		----------	True	Calc.	% Drift	----------		
20	M	iodomethane	50.000	50.683	-1.4	103	0.00	6.85
		----------	AvgRF	CCRF	% Dev	----------		
21	M	carbon disulfide	1.289	1.373	-6.5	114	0.00	6.97
22	M	methylene chloride	0.421	0.460	-9.3	116	0.00	7.30
23	M	methyl acetate	0.279	0.317	-13.6	114	0.00	7.09
24	M	methyl tert butyl ether	0.908	1.128	-24.2#	119	0.00	7.59
25	M	trans-1,2-dichloroethene	0.420	0.441	-5.0	112	0.00	7.66
26	M	di-isopropyl ether	1.303	1.560	-19.7	117	0.00	8.19
27	M	2-butanone	0.038	0.046	-21.1#	114	0.00	8.94
28	M	1,1-dichloroethane	0.693	0.824	-18.9	117	0.00	8.24
29	M	chloroprene	0.566	0.655	-15.7	114	0.00	8.34
30	M	acrylonitrile	0.119	0.112	5.9	91	0.00	7.64
31		hexane	0.671	0.706	-5.2	107	0.00	7.95
32	M	vinyl acetate	0.057	0.069	-21.1#	110	0.00	8.22
33	M	ethyl tert-butyl ether	1.172	1.442	-23.0#	117	0.00	8.65
34	M	ethyl acetate	0.055	0.062	-12.7	113	0.00	8.95
35	M	2,2-dichloropropane	0.592	0.710	-19.9	123	0.00	8.96
36	M	cis-1,2-dichloroethene	0.447	0.486	-8.7	113	0.00	8.97
37		methyl acrylate	0.048	0.060	-25.0#	116	0.00	9.03

Continuing Calibration Summary

Job Number: JD29923 **Sample:** V1C7856-CC7827
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1C180256.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

38	M	propionitrile	0.048	0.059	-22.9#	122	0.00	9.05
39	M	bromochloromethane	0.197	0.221	-12.2	112	0.00	9.29
40	M	tetrahydrofuran	0.125	0.144	-15.2	122	0.00	9.32
41	M	chloroform	0.485	0.543	-12.0	117	0.00	9.34
42	M	t-butyl formate	0.288	0.352	-22.2#	114	0.00	9.36
43	S	dibromofluoromethane (s)	0.457	0.489	-7.0	106	0.00	9.54
44	M	methacrylonitrile	0.136	0.164	-20.6#	117	0.00	9.23
45	M	1,1,1-trichloroethane	0.604	0.709	-17.4	120	0.00	9.58
46		cyclohexane	0.583	0.605	-3.8	106	0.00	9.64
47		1,1-dichloropropene	0.537	0.620	-15.5	113	0.00	9.76
48		iso-butyl alcohol	0.017	0.018	-5.9	111	0.00	9.78
49		carbon tetrachloride	0.531	0.620	-16.8	116	0.00	9.78
50		tert amyl alcohol	0.014	0.016	-14.3	122	0.00	9.90
51	I	1,4-difluorobenzene	1.000	1.000	0.0	102	0.00	10.40
52	S	1,2-dichloroethane-d4 (s)	0.287	0.316	-10.1	113	0.00	9.96
53	M	n-butyl alcohol	0.007	0.008#	-14.3	114	0.00	10.53
54		2,2,4-trimethylpentane	1.144	1.143	0.1	106	0.00	9.99
55	M	benzene	1.031	1.126	-9.2	114	0.00	10.03
56	M	tert-amyl methyl ether	0.161	0.186	-15.5	115	0.00	10.04
57	M	heptane	0.246	0.242	1.6	104	0.00	10.18
58	M	isopropyl acetate	0.046	0.053	-15.2	113	0.00	9.94
59	M	1,2-dichloroethane	0.304	0.343	-12.8	120	0.00	10.05
60	M	trichloroethene	0.279	0.308	-10.4	112	0.00	10.74
61		ethyl acrylate	0.291	0.326	-12.0	114	0.00	10.74
62	M	2-nitropropane		----------NA----------				
63	M	2-chloroethyl vinyl ether	0.148	0.169	-14.2	113	0.00	11.54
64	M	methyl methacrylate	0.051	0.059	-15.7	110	0.00	11.01
65	M	1,2-dichloropropane	0.264	0.304	-15.2	115	0.00	11.01
66	M	dibromomethane	0.152	0.172	-13.2	115	0.00	11.18
67	M	methylcyclohexane	0.469	0.480	-2.3	105	0.00	10.95
68	M	bromodichloromethane	0.343	0.401	-16.9	118	0.00	11.31
69		epichlorohydrin	0.024	0.027	-12.5	117	0.00	11.67
70	M	cis-1,3-dichloropropene	0.421	0.481	-14.3	114	0.00	11.76
71	M	4-methyl-2-pentanone	0.086	0.092	-7.0	106	0.00	11.85
72	M	3-methyl-1-butanol	0.011	0.012	-9.1	108	0.00	11.87
73	I	chlorobenzene-d5	1.000	1.000	0.0	99	0.00	13.55
74	S	toluene-d8 (s)	1.319	1.364	-3.4	103	0.00	12.04
75		toluene	0.774	0.815	-5.3	110	0.00	12.11
76		trans-1,3-dichloropropene	0.412	0.503	-22.1#	114	0.00	12.32
77		ethyl methacrylate	0.342	0.388	-13.5	109	0.00	12.30
78		1,1,2-trichloroethane	0.217	0.251	-15.7	111	0.00	12.53
79	M	tetrachloroethene	0.268	0.288	-7.5	106	0.00	12.69
80	M	1,3-dichloropropane	0.397	0.452	-13.9	110	0.00	12.71
81		2-hexanone	0.099	0.112	-13.1	108	0.00	12.69
82	M	butyl acetate	0.178	0.194	-9.0	112	0.00	12.76
83	M	dibromochloromethane	0.308	0.364	-18.2	113	0.00	12.98
84	M	1,2-dibromoethane	0.255	0.299	-17.3	109	0.00	13.13
85		n-butyl ether	1.360	1.410	-3.7	105	0.00	13.47
86	M	chlorobenzene	0.798	0.866	-8.5	108	0.00	13.58
87	M	1,1,1,2-tetrachloroethane	0.296	0.335	-13.2	112	0.00	13.64
88	M	ethylbenzene	1.437	1.493	-3.9	108	0.00	13.62
89	M	m,p-xylene	0.527	0.553	-4.9	107	0.00	13.73
90	M	o-xylene	0.507	0.547	-7.9	109	0.00	14.15
91	M	styrene	0.870	0.933	-7.2	107	0.00	14.16
92	M	bromoform	0.216	0.251	-16.2	112	0.00	14.44
93		butyl acrylate	0.539	0.581	-7.8	106	0.00	13.97
94		isopropylbenzene	1.380	1.467	-6.3	107	0.00	14.49
95		cis-1,4-dichloro-2-butene	0.105	0.129	-22.9#	121	0.00	14.58

Continuing Calibration Summary

Job Number: JD29923 **Sample:** V1C7856-CC7827
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1C180256.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

96	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	101	0.00	15.86
97	S	4-bromofluorobenzene (s)	0.974	0.968	0.6	99	0.00	14.70
98	M	bromobenzene	0.731	0.790	-8.1	108	0.00	14.90
99	M	1,1,2,2-tetrachloroethane	0.682	0.723	-6.0	105	0.00	14.81
100	M	trans-1,4-dichloro-2-bute	0.176	0.203	-15.3	116	0.00	14.85
101	M	1,2,3-trichloropropane	0.155	0.175	-12.9	111	0.00	14.88
102	M	n-propylbenzene	3.572	3.630	-1.6	107	0.00	14.90
103	M	2-chlorotoluene	0.672	0.714	-6.2	107	0.00	15.05
104	M	4-chlorotoluene	2.128	2.153	-1.2	109	0.00	15.15
105	M	1,3,5-trimethylbenzene	2.281	2.441	-7.0	109	0.00	15.04
106	M	tert-butylbenzene	0.429	0.456	-6.3	107	0.00	15.39
107	M	1,2,4-trimethylbenzene	2.297	2.483	-8.1	110	0.00	15.44
108	M	sec-butylbenzene	3.121	3.246	-4.0	106	0.00	15.61
109	M	1,3-dichlorobenzene	1.344	1.475	-9.7	110	0.00	15.81
110	M	p-isopropyltoluene	2.573	2.724	-5.9	109	0.00	15.73
111		1,2,3-trimethylbenzene	2.351	2.431	-3.4	107	0.00	15.89
112	M	1,4-dichlorobenzene	1.360	1.425	-4.8	109	0.00	15.89
113		benzyl chloride	1.290	1.579	-22.4#	123	0.00	16.01
114	M	1,2-dichlorobenzene	1.293	1.404	-8.6	109	0.00	16.29
115	M	n-butylbenzene	1.411	1.485	-5.2	107	0.00	16.15
116	M	1,2-dibromo-3-chloropropa	0.122	0.141	-15.6	113	0.00	17.09
117		1,3,5-trichlorobenzene	1.023	1.191	-16.4	117	0.00	17.25
118		2-ethylhexyl acrylate	0.611	0.571	6.5	91	0.00	17.79
119	M	1,2,4-trichlorobenzene	0.844	0.974	-15.4	114	0.00	17.82
120	M	hexachlorobutadiene	0.504	0.579	-14.9	113	0.00	17.92
121	M	naphthalene	1.749	1.869	-6.9	105	0.00	18.07
122	M	1,2,3-trichlorobenzene	0.750	0.869	-15.9	112	0.00	18.28
123	m	hexachloroethane	0.450	0.535	-18.9	112	0.00	16.55
124		2-methylnaphthalene	1.051	1.171	-11.4	104	0.00	19.04
125		pentafluorobenzene(a)	1.000	1.000	0.0	89	0.00	9.48
126		vinyl bromide		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1C179472.D M1CS7827.M Thu Aug 19 13:07:57 2021

Initial Calibration Summary

Job Number: JD29923 **Sample:** V3C7415-ICC7415
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 3C167231.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Response Factor Report MS3C

Method : C:\MSDCHEM\1\METHODS\M3C7415.M (RTE Integrator)
Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
Last Update : Mon Jun 28 17:56:55 2021
Response via : Initial Calibration

Calibration Files
4 =3C167228.D 8 =3C167229.D 0.5 =3C167225.D 50 =3C167231.D
100 =3C167232.D 1 =3C167226.D 200 =3C167233.D 20 =3C167230.D
2 =3C167227.D 0.2 =3C167224.D = =

Compound	4	8	0.5	50	100	1	200	20	2	0.2	Avg	%RSD
1) I tert butyl alcohol-d9	----------ISTD----------											
2) ethanol											0.000	-1.00
3) tertiary butyl alcohol	0.951	0.878		1.157	1.008	0.852	1.043	1.093	1.086		1.008	10.69
4) 1,4-dioxane	0.109	0.126		0.168	0.142		0.146	0.153			0.141	14.74
5) I pentafluorobenzene	----------ISTD----------											
6) dichlorodifluoromethane	0.430	0.406		0.579	0.459	0.454	0.450	0.549	0.536		0.483	13.03
7) chloromethane	0.472	0.440	0.522	0.568	0.482	0.528	0.477	0.544	0.571		0.512	9.02
8) 1,3-butadiene	0.300	0.301		0.423	0.344		0.357	0.378			0.351	13.43
9) vinyl chloride	0.397	0.390		0.534	0.450	0.407	0.445	0.505	0.453		0.448	11.42
10) bromomethane	0.261	0.253	0.256	0.291	0.225	0.254	0.198	0.294	0.333	0.291	0.265	14.46
11) chloroethane	0.225	0.248		0.327	0.283	0.260	0.285	0.306	0.290		0.278	11.75
12) trichlorofluoromethane	0.489	0.483	0.576	0.688	0.550	0.495	0.547	0.635	0.606		0.563	12.52
13) ethyl ether	0.169	0.163		0.211	0.183	0.149	0.186	0.196	0.197		0.182	11.14
14) acrolein		0.028		0.048	0.044		0.043	0.042			0.041	18.19
15) freon 113	0.256	0.252		0.340	0.274		0.280	0.309	0.311		0.289	11.21
16) 1,1-dichloroethene	0.262	0.274		0.365	0.298	0.249	0.309	0.328	0.331		0.302	12.91
17) acetone	0.089	0.070		0.082	0.069		0.071	0.082	0.140		0.086	28.92
----- Linear regression ----- Coefficient = 0.9956												
Response Ratio = 0.00878 + 0.07086 *A												
18) acetonitrile	0.029	0.027		0.034	0.028		0.029	0.034			0.030	9.92
19) iodomethane	0.215	0.243		0.495	0.452		0.464	0.392			0.377	31.72
----- Linear regression ----- Coefficient = 0.9974												
Response Ratio = -0.02527 + 0.47351 *A												
20) carbon disulfide												

```
      1.003 0.993 1.125 1.257 1.044 1.110 1.055 1.170 1.189 1.216  1.116    8.18
21)  methylene chloride
      0.321 0.324       0.388 0.334       0.336 0.373 0.418        0.356   10.48
22)  methyl acetate
      0.235 0.191       0.220 0.192       0.186 0.225              0.208   10.02
23)  methyl tert butyl ether
      0.726 0.742       0.935 0.824 0.830 0.823 0.886 0.939        0.838    9.48
24)  trans-1,2-dichloroethene
      0.314 0.328       0.424 0.360 0.317 0.367 0.395 0.389        0.362   11.06
25)  hexane
      0.596 0.580       0.781 0.626       0.655 0.711 0.819        0.681   13.56
26)  di-isopropyl ether
      1.034 1.026 0.990 1.341 1.177 1.067 1.197 1.270 1.216        1.146   10.63
27)  ethyl tert-butyl ether
      0.927 0.901 0.989 1.192 1.050 0.952 1.069 1.114 1.072 1.164  1.043    9.49
28)  2-butanone
      0.022 0.026       0.033 0.029       0.028 0.031 0.028        0.028   13.11
29)  1,1-dichloroethane
      0.600 0.591 0.536 0.756 0.643 0.552 0.655 0.707 0.678        0.635   11.43
30)  chloroprene     *This compound fails Initial Calibration criteria*
      0.489 0.480       0.658 0.550 0.500 0.562 0.595 0.557        0.549   10.85
31)  acrylonitrile       *This compound fails Initial Calibration criteria*
      0.063 0.069       0.088 0.075       0.073 0.083              0.075   12.25
32)  vinyl acetate
      0.048 0.053       0.075 0.066       0.065 0.069              0.063   16.34
33)  ethyl acetate
      0.031 0.033       0.050 0.042       0.041 0.046              0.041   17.88
34)  2,2-dichloropropane
      0.420 0.425       0.587 0.505 0.542 0.534 0.527 0.540        0.510   11.51
35)  cis-1,2-dichloroethene
      0.342 0.342       0.453 0.387 0.351 0.390 0.432 0.424        0.390   11.03
36)  propionitrile
      0.031 0.030       0.039 0.033 0.031 0.032 0.037 0.037        0.034    9.46
37)  bromochloromethane
      0.212 0.197       0.249 0.216 0.181 0.211 0.238 0.250        0.219   11.25
38)  tetrahydrofuran
      0.081 0.078 0.072 0.088 0.077 0.075 0.076 0.086 0.094 0.091  0.082    9.27
39)  chloroform
      0.632 0.607 0.693 0.737 0.628 0.728 0.634 0.697 0.755        0.679    8.09
40)  tert-butyl formate
      0.094 0.097       0.143 0.132       0.146 0.128 0.108        0.121   17.60
41)  isobutyl alcohol
      0.047 0.044       0.062 0.051       0.053 0.056 0.056        0.053   11.42
42)  dibromofluoromethane (s)
      0.431 0.435 0.426 0.434 0.440 0.426 0.428 0.432 0.431 0.421  0.430    1.22
43)  methacrylonitrile
      0.096 0.097       0.120 0.105       0.105 0.117 0.110        0.107    8.58
44)  1,1,1-trichloroethane
      0.481 0.491       0.669 0.558       0.567 0.612 0.575        0.565   11.62
45)  cyclohexane
      0.510 0.484 0.531 0.702 0.567 0.528 0.562 0.645 0.652        0.576   12.86
46)  1,1-dichloropropene
      0.171 0.170       0.223 0.181 0.136 0.186 0.200 0.203        0.184   14.29
47)  tert-amyl alcohol
      0.014 0.014       0.020 0.017       0.020 0.019              0.017   15.54
48)  carbon tetrachloride
      0.467 0.438       0.562 0.460 0.531 0.472 0.519 0.524        0.497    8.66

49) I   1,4-difluorobenzene   ----------------ISTD---------------------
50)  1,2-dichloroethane-d4 (s)
```

```
      0.297 0.299 0.302 0.298 0.290 0.298 0.285 0.293 0.299 0.303  0.296    1.83
51)  2,2,4-trimethylpentane
      0.934 0.923 0.993 1.270 1.052 1.065 1.078 1.142 1.185 1.101  1.074   10.07
52)  tert-amyl methyl ether
      0.164 0.158       0.221 0.197       0.202 0.202 0.177        0.189   12.19
53)  n-butyl alcohol
      0.003 0.003       0.005 0.005       0.005 0.004              0.004   21.46
            ----- Linear regression -----  Coefficient =  0.9972
              Response Ratio = -0.01144 + 0.00528 *A

54)  benzene
      0.911 0.876 0.897 1.108 0.942 0.950 0.941 1.022 1.086        0.970    8.52
55)  heptane
      0.197 0.190       0.274 0.224 0.210 0.235 0.242 0.255        0.228   12.57
56)  isopropyl acetate
      0.164 0.158       0.221 0.197       0.202 0.202 0.177        0.189   12.19
57)  1,2-dichloroethane
      0.279 0.278 0.325 0.328 0.279 0.275 0.280 0.316 0.350 0.341  0.305    9.81
58)  trichloroethene
      0.238 0.229       0.294 0.248 0.247 0.250 0.266 0.289        0.258    9.04
59)  ethyl acrylate
                                                                   0.000   -1.00
60)  2-nitropropane
      0.062 0.059       0.077 0.068       0.068 0.073 0.067        0.068    8.88
61)  2-chloroethyl vinyl ether
      0.105 0.108       0.142 0.122 0.110 0.123 0.132 0.132        0.122   10.90
62)  methyl methacrylate
            0.037       0.057 0.050       0.051 0.051              0.049   15.22
63)  1,2-dichloropropane
      0.212 0.216       0.270 0.235 0.201 0.238 0.252 0.245        0.234    9.82
64)  methylcyclohexane
      0.402 0.408       0.548 0.440       0.454 0.494 0.504        0.464   11.55
65)  dibromomethane
      0.109 0.112       0.138 0.118 0.094 0.118 0.130 0.138        0.120   12.58
66)  bromodichloromethane
      0.279 0.279 0.256 0.351 0.303 0.302 0.304 0.325 0.337        0.304    9.99
67)  epichlorohydrin
      0.012 0.014       0.019 0.017       0.017 0.017 0.017        0.016   13.47
68)  cis-1,3-dichloropropene
      0.313 0.326       0.439 0.383 0.319 0.386 0.390 0.374        0.366   11.89
69)  4-methyl-2-pentanone
      0.023 0.024       0.034 0.029 0.026 0.029 0.031 0.029        0.028   12.53
70)  3-methyl-1-butanol
      0.004 0.004       0.007 0.007       0.007 0.006              0.006   26.75
            ----- Linear regression -----  Coefficient =  0.9982
              Response Ratio = -0.00717 + 0.00743 *A


71) I   chlorobenzene-d5      ----------------ISTD---------------------
72)  toluene-d8 (s)
      1.319 1.327 1.290 1.331 1.341 1.321 1.352 1.321 1.318 1.280  1.320    1.63
73)  toluene
      0.669 0.647 0.600 0.814 0.693 0.724 0.710 0.754 0.760 0.690  0.706    8.68
74)  trans-1,3-dichloropropene
      0.294 0.298       0.407 0.362 0.367 0.376 0.367 0.369        0.355   11.05
75)  ethyl methacrylate
            0.228       0.320 0.285       0.294 0.289              0.283   11.80
76)  1,1,2-trichloroethane
      0.165 0.158       0.201 0.171 0.151 0.174 0.190 0.187        0.175    9.84
77)  2-hexanone
```

```
      0.058 0.062       0.085 0.074 0.056 0.075 0.079 0.071        0.070   14.85
78)  tetrachloroethene
      0.298 0.293 0.290 0.375 0.310 0.304 0.317 0.345 0.346        0.320    9.14
79)  1,3-dichloropropane
      0.334 0.337       0.409 0.359 0.344 0.358 0.390 0.401        0.367    8.05
80)  butyl acetate
      0.117 0.109       0.153 0.135       0.139 0.143 0.162        0.137   13.70
81)  dibromochloromethane
      0.216 0.222       0.276 0.243 0.242 0.245 0.258 0.258        0.245    7.97
82)  1,2-dibromoethane
      0.180 0.182       0.228 0.197 0.186 0.198 0.217 0.228        0.202    9.88
83)  n-butyl ether
      0.978 1.004       1.365 1.191 0.973 1.234 1.247 1.145        1.142   12.65
84)  chlorobenzene
      0.722 0.698 0.685 0.852 0.726 0.744 0.737 0.806 0.837 0.722  0.753    7.71
85)  1,1,1,2-tetrachloroethane
      0.234 0.230       0.301 0.263 0.251 0.267 0.277 0.268        0.261    8.84
86)  ethylbenzene
      1.256 1.251 1.279 1.554 1.302 1.316 1.315 1.457 1.538 1.353  1.362    8.31
87)  m,p-xylene
      0.478 0.483 0.450 0.600 0.512 0.525 0.516 0.562 0.577 0.458  0.516    9.85
88)  o-xylene
      0.950 0.960 0.915 1.204 1.028 0.979 1.048 1.141 1.134        1.040    9.60
89)  styrene
      0.766 0.787       0.991 0.863 0.739 0.874 0.932 0.884        0.855   10.06
90)  bromoform
      0.137 0.143       0.184 0.162 0.145 0.168 0.167 0.179        0.161   10.75
91)  butyl acrylate
      0.273 0.296       0.466 0.423       0.456 0.396              0.385   21.33
           ----- Linear regression -----  Coefficient =  0.9980
             Response Ratio = -0.01815 + 0.45442 *A

92)  isopropylbenzene
      1.263 1.222       1.549 1.302 1.251 1.326 1.454 1.432        1.350    8.58
93)  cis-1,4-dichloro-2-butene
      0.070 0.071       0.094 0.083       0.088 0.085 0.073        0.080   11.77

94) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
95)  4-bromofluorobenzene (s)
      0.910 0.922 0.917 0.925 0.908 0.910 0.879 0.938 0.915 0.911  0.913    1.66
96)  bromobenzene
      0.604 0.588       0.725 0.611 0.662 0.597 0.691 0.742        0.653    9.35
97)  1,1,2,2-tetrachloroethane
      0.426 0.430       0.547 0.462 0.476 0.464 0.526 0.493        0.478    8.94
98)  trans-1,4-dichloro-2-butene
      0.051 0.052       0.079 0.070       0.073 0.071              0.066   17.41
99)  1,2,3-trichloropropane
      0.121 0.125       0.162 0.139       0.137 0.160 0.152        0.142   11.56
100)  n-propylbenzene
      2.926 2.882 2.764 3.667 3.034 3.120 2.891 3.447 3.460 2.858  3.105   10.00
101)  2-chlorotoluene
      0.572 0.571 0.566 0.710 0.603 0.581 0.596 0.682 0.711 0.632  0.622    9.31
102)  4-chlorotoluene
      0.627 0.594 0.604 0.737 0.632 0.627 0.623 0.701 0.700        0.650    7.72
103)  1,3,5-trimethylbenzene
      1.960 1.978 1.852 2.476 2.124 2.007 2.070 2.336 2.372        2.130   10.07
104)  tert-butylbenzene
      1.741 1.762 1.799 2.269 1.881 1.864 1.863 2.124 2.178 1.851  1.933    9.63
105)  1,2,4-trimethylbenzene
      1.983 1.970 1.842 2.547 2.197 2.068 2.136 2.405 2.316        2.163   10.50
```

Initial Calibration Summary

Job Number: JD29923 **Sample:** V3C7415-ICC7415
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 3C167231.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

```
106)  sec-butylbenzene
       2.632 2.610 2.493 3.408 2.840 2.726 2.761 3.207 3.187 2.741  2.860   10.55
107)  1,3-dichlorobenzene
       1.191 1.179 1.233 1.424 1.243 1.245 1.209 1.379 1.446 1.410  1.296    8.15
108)  p-isopropyltoluene
       2.255 2.305 2.198 2.956 2.524 2.280 2.449 2.776 2.642 2.645  2.503   10.02
109)  1,4-dichlorobenzene
       1.234 1.182 1.372 1.440 1.252 1.320 1.227 1.379 1.417        1.314    7.09
110)  1,2,3-trimethylbenzene
       1.988 2.021 1.836 2.532 2.196 2.026 2.138 2.378 2.354 2.089  2.156    9.80
111)  1,2-dichlorobenzene
       1.071 1.079 1.147 1.305 1.151 1.160 1.132 1.257 1.294 1.050  1.165    7.88
112)  n-butylbenzene
       1.138 1.172       1.524 1.307 1.161 1.312 1.401 1.301        1.289   10.24
113)  1,2-dibromo-3-chloropropane
       0.093 0.095       0.129 0.113       0.112 0.112 0.111        0.109   11.20
114)  1,3,5-trichlorobenzene
       0.961 0.950 1.006 1.197 1.036 1.035 1.002 1.110 1.151 1.149  1.060    8.14
115)  1,2,4-trichlorobenzene
       0.902 0.852 0.855 1.083 0.939 0.932 0.888 1.007 1.053        0.946    8.88
116)  hexachlorobutadiene
       0.527 0.527 0.604 0.692 0.577 0.631 0.565 0.651 0.669 0.644  0.609    9.55
117)  naphthalene
       1.506 1.507 1.568 2.051 1.750 1.619 1.629 1.923 1.803        1.706   11.15
118)  1,2,3-trichlorobenzene
       0.797 0.802 0.883 0.977 0.837 0.780 0.790 0.916 0.965        0.861    8.94
119)  hexachloroethane
       0.310 0.302       0.452 0.398       0.416 0.400 0.327        0.372   15.68
120)  benzyl chloride
       0.534 0.557       0.961 0.910       0.971 0.788              0.787   25.20
             ----- Linear regression -----  Coefficient =  0.9982
               Response Ratio = -0.04733 + 0.96828 *A

121)  2-methylnaphthalene
             0.903       1.324 1.156       1.053 1.198              1.127   14.05
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M3C7415.M         Thu Jul 01 19:23:09 2021   MS3C
```

Initial Calibration Verification

Job Number: JD29923 **Sample:** V3C7415-ICV7415
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 3C167236.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\V3C7415\3C167236.D Vial: 14
Acq On : 16 Jun 2021 10:23 pm Operator: PrashanS
Sample : ICV7415-50 Inst : MS3C
Misc : MS50065,V3C7415,5.0,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M3C7415.M (RTE Integrator)
Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
Last Update : Mon Jun 28 17:56:55 2021
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	96	0.00	2.56
2	ethanol		----------NA----------				
3	tertiary butyl alcohol	1.008	1.157	-14.8	96	0.00	2.62
4	1,4-dioxane	0.141	0.163	-15.6	93	0.00	5.26
5 I	pentafluorobenzene	1.000	1.000	0.0	98	0.00	4.00
6	dichlorodifluoromethane	0.483	0.608	-25.9	103	0.00	1.08
7	chloromethane	0.512	0.536	-4.7	93	-0.01	1.22
8	1,3-butadiene	0.351	0.437	-24.5	102	0.00	1.31
9	vinyl chloride	0.448	0.531	-18.5	98	0.00	1.29
10	bromomethane	0.265	0.314	-18.5	106	0.00	1.53
11	chloroethane	0.278	0.325	-16.9	98	0.00	1.61
12	trichlorofluoromethane	0.563	0.681	-21.0	97	0.00	1.76
13	ethyl ether	0.182	0.205	-12.6	96	0.00	1.98
14	acrolein	0.041	0.051	-24.4	103	0.00	2.12
15	freon 113	0.289	0.306	-5.9	88	0.00	2.12
16	1,1-dichloroethene	0.302	0.357	-18.2	96	0.00	2.15
	----------	True	Calc.	% Drift	----------		
17	acetone	200.000	212.043	-6.0	93	0.00	2.23
	----------	AvgRF	CCRF	% Dev	----------		
18	acetonitrile		----------NA----------				
	----------	True	Calc.	% Drift	----------		
19	iodomethane	50.000	50.871	-1.7	91	0.00	2.27
	----------	AvgRF	CCRF	% Dev	----------		
20	carbon disulfide	1.116	1.244	-11.5	97	0.00	2.30
21	methylene chloride	0.356	0.391	-9.8	99	0.00	2.55
22	methyl acetate	0.208	0.213	-2.4	95	0.00	2.45
23	methyl tert butyl ether	0.838	0.946	-12.9	99	0.00	2.69
24	trans-1,2-dichloroethene	0.362	0.422	-16.6	98	0.00	2.72
25	hexane	0.681	0.804	-18.1	101	0.00	2.86
26	di-isopropyl ether	1.146	1.310	-14.3	96	0.00	3.05
27	ethyl tert-butyl ether	1.043	1.143	-9.6	94	0.00	3.34
28	2-butanone	0.028	0.034	-21.4	99	0.00	3.57
29	1,1-dichloroethane	0.635	0.761	-19.8	99	0.00	3.07
30	chloroprene	0.549	0.743	-35.3#	111	0.00	3.11
31	acrylonitrile		----------NA----------				
32	vinyl acetate	0.063	0.080	-27.0	105	0.00	3.10
33	ethyl acetate	0.041	0.048	-17.1	94	0.00	3.58

Initial Calibration Verification

Job Number: JD29923 **Sample:** V3C7415-ICV7415
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 3C167236.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

34		2,2-dichloropropane	0.510	0.605	-18.6	101	0.00	3.52
35		cis-1,2-dichloroethene	0.390	0.467	-19.7	101	0.00	3.55
36		propionitrile	0.034	0.038	-11.8	96	0.00	3.68
37		bromochloromethane	0.219	0.251	-14.6	99	0.00	3.76
38		tetrahydrofuran	0.082	0.090	-9.8	100	0.00	3.76
39		chloroform	0.679	0.739	-8.8	99	0.00	3.82
40		tert-butyl formate	0.121	0.111	8.3	77	0.00	3.82
41		isobutyl alcohol	0.053	0.058	-9.4	93	0.00	4.23
42	S	dibromofluoromethane (s)	0.430	0.437	-1.6	99	0.00	3.96
43		methacrylonitrile	0.107	0.121	-13.1	99	0.00	3.78
44		1,1,1-trichloroethane	0.565	0.666	-17.9	98	0.00	3.93
45		cyclohexane	0.576	0.731	-26.9	102	0.00	3.91
46		1,1-dichloropropene	0.184	0.220	-19.6	97	0.00	4.08
47		tert-amyl alcohol	0.017	0.021	-23.5	103	0.00	4.29
48		carbon tetrachloride	0.497	0.560	-12.7	98	0.00	4.04
49	I	1,4-difluorobenzene	1.000	1.000	0.0	101	0.00	4.66
50	S	1,2-dichloroethane-d4 (s)	0.296	0.292	1.4	99	0.00	4.28
51		2,2,4-trimethylpentane	1.074	1.182	-10.1	94	0.00	4.23
52		tert-amyl methyl ether	0.189	0.201	-6.3	91	0.00	4.33
			True	Calc.	% Drift			
53		n-butyl alcohol	2500.000	2403.917	3.8	93	0.00	4.87
			AvgRF	CCRF	% Dev			
54		benzene	0.970	1.109	-14.3	101	0.00	4.26
55		heptane	0.228	0.263	-15.4	97	0.00	4.42
56		isopropyl acetate	0.189	0.201	-6.3	91	0.00	4.33
57		1,2-dichloroethane	0.305	0.323	-5.9	99	0.00	4.35
58		trichloroethene	0.258	0.292	-13.2	100	0.00	4.87
59		ethyl acrylate		----------NA----------				
60		2-nitropropane	0.068	0.076	-11.8	99	0.00	5.72
61		2-chloroethyl vinyl ether	0.122	0.141	-15.6	100	0.00	5.73
62		methyl methacrylate	0.049	0.056	-14.3	99	0.00	5.24
63		1,2-dichloropropane	0.234	0.273	-16.7	102	0.00	5.14
64		methylcyclohexane	0.464	0.530	-14.2	97	0.00	4.97
65		dibromomethane	0.120	0.134	-11.7	98	0.00	5.26
66		bromodichloromethane	0.304	0.342	-12.5	98	0.00	5.42
67		epichlorohydrin	0.016	0.019	-18.7	98	0.00	5.81
68		cis-1,3-dichloropropene	0.366	0.425	-16.1	97	0.00	5.86
69		4-methyl-2-pentanone	0.028	0.032	-14.3	95	0.00	5.99
			True	Calc.	% Drift			
70		3-methyl-1-butanol	1000.000	982.917	1.7	94	0.00	6.08
			AvgRF	CCRF	% Dev			
71	I	chlorobenzene-d5	1.000	1.000	0.0	98	0.00	7.37
72	S	toluene-d8 (s)	1.320	1.359	-3.0	100	0.00	6.05
73		toluene	0.706	0.839	-18.8	101	0.00	6.11
74		trans-1,3-dichloropropene	0.355	0.420	-18.3	101	0.00	6.41
75		ethyl methacrylate	0.283	0.326	-15.2	100	0.00	6.43
76		1,1,2-trichloroethane	0.175	0.204	-16.6	100	0.00	6.57
77		2-hexanone	0.070	0.081	-15.7	94	0.00	6.77
78		tetrachloroethene		----------NA----------				
79		1,3-dichloropropane	0.367	0.416	-13.4	100	0.00	6.72
80		butyl acetate	0.137	0.157	-14.6	100	0.00	6.86
81		dibromochloromethane	0.245	0.284	-15.9	101	0.00	6.89
82		1,2-dibromoethane	0.202	0.229	-13.4	98	0.00	6.99
83		n-butyl ether	1.142	1.437	-25.8	103	0.00	7.44

Initial Calibration Verification

Job Number: JD29923 **Sample:** V3C7415-ICV7415
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 3C167236.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

84		chlorobenzene	0.753	0.854	-13.4	98	0.00	7.39
85		1,1,1,2-tetrachloroethane	0.261	0.305	-16.9	99	0.00	7.48
86		ethylbenzene	1.362	1.585	-16.4	100	0.00	7.46
87		m,p-xylene	0.516	0.615	-19.2	101	0.00	7.57
88		o-xylene	1.040	1.215	-16.8	99	0.00	7.90
89		styrene	0.855	0.989	-15.7	98	0.00	7.93
90		bromoform	0.161	0.181	-12.4	96	0.00	8.11
		----------	True	Calc.	% Drift	----------		
91		butyl acrylate	50.000	51.482	-3.0	95	0.00	7.90
		----------	AvgRF	CCRF	% Dev	----------		
92		isopropylbenzene	1.350	1.576	-16.7	100	0.00	8.20
93		cis-1,4-dichloro-2-butene	0.080	0.089	-11.2	92	0.00	8.33
94	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	98	0.00	9.30
95	S	4-bromofluorobenzene (s)	0.913	0.938	-2.7	99	0.00	8.37
96		bromobenzene	0.653	0.730	-11.8	98	0.00	8.48
97		1,1,2,2-tetrachloroethane	0.478	0.538	-12.6	96	0.00	8.53
98		trans-1,4-dichloro-2-bute	0.066	0.078	-18.2	97	0.00	8.58
99		1,2,3-trichloropropane	0.142	0.163	-14.8	98	0.00	8.56
100		n-propylbenzene	3.105	3.729	-20.1	99	0.00	8.54
101		2-chlorotoluene	0.622	0.712	-14.5	98	0.00	8.63
102		4-chlorotoluene	0.650	0.740	-13.8	98	0.00	8.72
103		1,3,5-trimethylbenzene	2.130	2.558	-20.1	101	0.00	8.69
104		tert-butylbenzene	1.933	2.301	-19.0	99	0.00	8.94
105		1,2,4-trimethylbenzene	2.163	2.610	-20.7	100	0.00	8.99
106		sec-butylbenzene	2.860	3.453	-20.7	99	0.00	9.12
107		1,3-dichlorobenzene	1.296	1.433	-10.6	98	0.00	9.24
108		p-isopropyltoluene	2.503	2.964	-18.4	98	0.00	9.24
109		1,4-dichlorobenzene	1.314	1.404	-6.8	95	0.00	9.32
110		1,2,3-trimethylbenzene		----------NA----------				
111		1,2-dichlorobenzene	1.165	1.321	-13.4	99	0.00	9.61
112		n-butylbenzene	1.289	1.526	-18.4	98	0.00	9.56
113		1,2-dibromo-3-chloropropa	0.109	0.124	-13.8	94	0.00	10.25
114		1,3,5-trichlorobenzene	1.060	1.204	-13.6	98	0.00	10.36
115		1,2,4-trichlorobenzene	0.946	1.034	-9.3	93	0.00	10.86
116		hexachlorobutadiene	0.609	0.673	-10.5	95	0.00	10.95
117		naphthalene	1.706	1.989	-16.6	95	0.00	11.05
118		1,2,3-trichlorobenzene	0.861	0.954	-10.8	95	0.00	11.24
119		hexachloroethane	0.372	0.460	-23.7	100	0.00	9.77
		----------	True	Calc.	% Drift	----------		
120		benzyl chloride	50.000	49.771	0.5	93	0.00	9.44
		----------	AvgRF	CCRF	% Dev	----------		
121		2-methylnaphthalene	1.127	1.262	-12.0	93	0.00	11.91

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3C167231.D M3C7415.M Mon Jun 28 17:57:39 2021 MS3C

Initial Calibration Verification

Job Number: JD29923 **Sample:** V3C7415-ICV7415
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 3C167237.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\V3C7415\3C167237.D Vial: 15
Acq On : 16 Jun 2021 10:49 pm Operator: PrashanS
Sample : ICV7415-50 Inst : MS3C
Misc : MS50065,V3C7415,5.0,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M3C7415.M (RTE Integrator)
Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
Last Update : Mon Jun 28 17:56:55 2021
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	100	0.00	2.56
2		ethanol		----------NA----------				
3		tertiary butyl alcohol		----------NA----------				
4		1,4-dioxane		----------NA----------				
5	I	pentafluorobenzene	1.000	1.000	0.0	94	0.00	4.00
6		dichlorodifluoromethane		----------NA----------				
7		chloromethane		----------NA----------				
8		1,3-butadiene		----------NA----------				
9		vinyl chloride		----------NA----------				
10		bromomethane		----------NA----------				
11		chloroethane		----------NA----------				
12		trichlorofluoromethane		----------NA----------				
13		ethyl ether		----------NA----------				
14		acrolein		----------NA----------				
15		freon 113		----------NA----------				
16		1,1-dichloroethene		----------NA----------				
		----------	True	Calc.	% Drift	----------		
17		acetone		----------NA----------				
		----------	AvgRF	CCRF	% Dev	----------		
18		acetonitrile	0.030	0.033	-10.0	92	0.00	2.49
		----------	True	Calc.	% Drift	----------		
19		iodomethane		----------NA----------				
		----------	AvgRF	CCRF	% Dev	----------		
20		carbon disulfide		----------NA----------				
21		methylene chloride		----------NA----------				
22		methyl acetate		----------NA----------				
23		methyl tert butyl ether		----------NA----------				
24		trans-1,2-dichloroethene		----------NA----------				
25		hexane		----------NA----------				
26		di-isopropyl ether		----------NA----------				
27		ethyl tert-butyl ether		----------NA----------				
28		2-butanone		----------NA----------				
29		1,1-dichloroethane		----------NA----------				
30		chloroprene		----------NA----------				
31		acrylonitrile	0.075	0.101	-34.7#	108	0.00	2.78
32		vinyl acetate		----------NA----------				
33		ethyl acetate		----------NA----------				

Initial Calibration Verification

Job Number: JD29923 **Sample:** V3C7415-ICV7415
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 3C167237.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

34		2,2-dichloropropane		----------NA----------				
35		cis-1,2-dichloroethene		----------NA----------				
36		propionitrile		----------NA----------				
37		bromochloromethane		----------NA----------				
38		tetrahydrofuran		----------NA----------				
39		chloroform		----------NA----------				
40		tert-butyl formate		----------NA----------				
41		isobutyl alcohol		----------NA----------				
42	S	dibromofluoromethane (s)	0.430	0.441	-2.6	95	0.00	3.96
43		methacrylonitrile		----------NA----------				
44		1,1,1-trichloroethane		----------NA----------				
45		cyclohexane		----------NA----------				
46		1,1-dichloropropene		----------NA----------				
47		tert-amyl alcohol		----------NA----------				
48		carbon tetrachloride		----------NA----------				
49	I	1,4-difluorobenzene	1.000	1.000	0.0	96	0.00	4.66
50	S	1,2-dichloroethane-d4 (s)	0.296	0.296	0.0	95	0.00	4.28
51		2,2,4-trimethylpentane		----------NA----------				
52		tert-amyl methyl ether		----------NA----------				
		----------	True	Calc.	% Drift	----------		
53		n-butyl alcohol		----------NA----------				
		----------	AvgRF	CCRF	% Dev	----------		
54		benzene		----------NA----------				
55		heptane		----------NA----------				
56		isopropyl acetate		----------NA----------				
57		1,2-dichloroethane		----------NA----------				
58		trichloroethene		----------NA----------				
59		ethyl acrylate		----------NA----------				
60		2-nitropropane		----------NA----------				
61		2-chloroethyl vinyl ether		----------NA----------				
62		methyl methacrylate		----------NA----------				
63		1,2-dichloropropane		----------NA----------				
64		methylcyclohexane		----------NA----------				
65		dibromomethane		----------NA----------				
66		bromodichloromethane		----------NA----------				
67		epichlorohydrin		----------NA----------				
68		cis-1,3-dichloropropene		----------NA----------				
69		4-methyl-2-pentanone		----------NA----------				
		----------	True	Calc.	% Drift	----------		
70		3-methyl-1-butanol		----------NA----------				
		----------	AvgRF	CCRF	% Dev	----------		
71	I	chlorobenzene-d5	1.000	1.000	0.0	94	0.00	7.37
72	S	toluene-d8 (s)	1.320	1.344	-1.8	95	0.00	6.05
73		toluene		----------NA----------				
74		trans-1,3-dichloropropene		----------NA----------				
75		ethyl methacrylate		----------NA----------				
76		1,1,2-trichloroethane		----------NA----------				
77		2-hexanone		----------NA----------				
78		tetrachloroethene	0.320	0.365	-14.1	92	0.00	6.59
79		1,3-dichloropropane		----------NA----------				
80		butyl acetate		----------NA----------				
81		dibromochloromethane		----------NA----------				
82		1,2-dibromoethane		----------NA----------				
83		n-butyl ether		----------NA----------				

Initial Calibration Verification

Job Number: JD29923 **Sample:** V3C7415-ICV7415
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 3C167237.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

84		chlorobenzene			NA			
85		1,1,1,2-tetrachloroethane			NA			
86		ethylbenzene			NA			
87		m,p-xylene			NA			
88		o-xylene			NA			
89		styrene			NA			
90		bromoform			NA			
			True	Calc.	% Drift			
91		butyl acrylate			NA			
			AvgRF	CCRF	% Dev			
92		isopropylbenzene			NA			
93		cis-1,4-dichloro-2-butene			NA			
94	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	94	0.00	9.30
95	S	4-bromofluorobenzene (s)	0.913	0.930	-1.9	94	0.00	8.37
96		bromobenzene			NA			
97		1,1,2,2-tetrachloroethane			NA			
98		trans-1,4-dichloro-2-bute			NA			
99		1,2,3-trichloropropane			NA			
100		n-propylbenzene			NA			
101		2-chlorotoluene			NA			
102		4-chlorotoluene			NA			
103		1,3,5-trimethylbenzene			NA			
104		tert-butylbenzene			NA			
105		1,2,4-trimethylbenzene			NA			
106		sec-butylbenzene			NA			
107		1,3-dichlorobenzene			NA			
108		p-isopropyltoluene			NA			
109		1,4-dichlorobenzene			NA			
110		1,2,3-trimethylbenzene	2.156	2.497	-15.8	92	0.00	9.33
111		1,2-dichlorobenzene			NA			
112		n-butylbenzene			NA			
113		1,2-dibromo-3-chloropropa			NA			
114		1,3,5-trichlorobenzene			NA			
115		1,2,4-trichlorobenzene			NA			
116		hexachlorobutadiene			NA			
117		naphthalene			NA			
118		1,2,3-trichlorobenzene			NA			
119		hexachloroethane			NA			
			True	Calc.	% Drift			
120		benzyl chloride			NA			
			AvgRF	CCRF	% Dev			
121		2-methylnaphthalene			NA			

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3C167231.D M3C7415.M Mon Jun 28 17:57:53 2021 MS3C

Continuing Calibration Summary

Job Number: JD29923 **Sample:** V3C7462-CC7415
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 3C168620.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ni...21\v3c7462\3c168620.d Vial: 3
Acq On : 19 Aug 2021 11:03 am Operator: PrashanS
Sample : cc7415-50 Inst : MS3C
Misc : MS52986,V3C7462,5.0,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M3C7415.M (RTE Integrator)
Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
Last Update : Mon Sep 13 11:48:20 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	105	0.00	2.56
2		ethanol		----------NA----------				
3		tertiary butyl alcohol	1.008	1.043	-3.5	95	0.00	2.63
4		1,4-dioxane	0.141	0.152	-7.8	96	0.00	5.26
5	I	pentafluorobenzene	1.000	1.000	0.0	94	0.00	4.00
6		dichlorodifluoromethane	0.483	0.377	21.9#	61	0.00	1.08
7		chloromethane	0.512	0.531	-3.7	88	0.00	1.24
8		1,3-butadiene	0.351	0.359	-2.3	80	0.00	1.31
9		vinyl chloride	0.448	0.465	-3.8	82	0.00	1.29
10		bromomethane	0.265	0.182	31.3#	59	0.00	1.53
11		chloroethane	0.278	0.285	-2.5	82	0.00	1.61
12		trichlorofluoromethane	0.563	0.480	14.7	66	0.00	1.76
13		ethyl ether	0.182	0.192	-5.5	86	0.00	1.98
14		acrolein	0.041	0.043	-4.9	84	0.00	2.12
15		freon 113	0.289	0.260	10.0	72	0.00	2.12
16		1,1-dichloroethene	0.302	0.303	-0.3	78	0.00	2.15
		----------	True	Calc.	% Drift	----------		
17		acetone	200.000	200.176	-0.1	84	0.00	2.23
		----------	AvgRF	CCRF	% Dev	----------		
18		acetonitrile	0.030	0.039	-30.0#	109	0.00	2.49
		----------	True	Calc.	% Drift	----------		
19		iodomethane	50.000	41.252	17.5	69	0.00	2.28
		----------	AvgRF	CCRF	% Dev	----------		
20		carbon disulfide	1.116	1.022	8.4	76	0.00	2.30
21		methylene chloride	0.356	0.349	2.0	85	0.00	2.55
22		methyl acetate	0.208	0.221	-6.3	95	0.00	2.45
23		methyl tert butyl ether	0.838	0.837	0.1	84	0.00	2.69
24		trans-1,2-dichloroethene	0.362	0.363	-0.3	80	0.00	2.72
25		hexane	0.681	0.665	2.3	80	0.00	2.86
26		di-isopropyl ether	1.146	1.320	-15.2	93	0.00	3.05
27		ethyl tert-butyl ether	1.043	1.132	-8.5	89	0.00	3.34
28		2-butanone	0.028	0.033	-17.9	92	0.00	3.57
29		1,1-dichloroethane	0.635	0.676	-6.5	84	0.00	3.07
30		chloroprene	0.549	0.574	-4.6	82	0.00	3.11
31		acrylonitrile	0.075	0.085	-13.3	91	0.00	2.78
32		vinyl acetate	0.063	0.080	-27.0#	101	0.00	3.10
33		ethyl acetate	0.041	0.047	-14.6	87	0.00	3.59

Continuing Calibration Summary

Job Number: JD29923 **Sample:** V3C7462-CC7415
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 3C168620.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

34		2,2-dichloropropane	0.510	0.504	1.2	81	0.00	3.52
35		cis-1,2-dichloroethene	0.390	0.395	-1.3	82	0.00	3.55
36		propionitrile	0.034	0.042	-23.5#	103	0.00	3.68
37		bromochloromethane	0.219	0.215	1.8	81	0.00	3.76
38		tetrahydrofuran	0.082	0.096	-17.1	102	0.00	3.76
39		chloroform	0.679	0.620	8.7	79	0.00	3.82
40		tert-butyl formate	0.121	0.175	-44.6#	115	0.00	3.82
41		isobutyl alcohol	0.053	0.051	3.8	78	0.00	4.24
42	S	dibromofluoromethane (s)	0.430	0.417	3.0	90	0.00	3.97
43		methacrylonitrile	0.107	0.124	-15.9	97	0.00	3.78
44		1,1,1-trichloroethane	0.565	0.517	8.5	73	0.00	3.93
45		cyclohexane	0.576	0.570	1.0	76	0.00	3.92
46		1,1-dichloropropene	0.184	0.182	1.1	77	0.00	4.08
47		tert-amyl alcohol	0.017	0.019	-11.8	91	0.00	4.30
48		carbon tetrachloride	0.497	0.421	15.3	70	0.00	4.04
49	I	1,4-difluorobenzene	1.000	1.000	0.0	94	0.00	4.66
50	S	1,2-dichloroethane-d4 (s)	0.296	0.286	3.4	90	0.00	4.28
51		2,2,4-trimethylpentane	1.074	1.133	-5.5	83	0.00	4.24
52		tert-amyl methyl ether	0.189	0.204	-7.9	86	0.00	4.33
			True	Calc.	% Drift			
53		n-butyl alcohol	2500.000	2622.633	-4.9	95	0.00	4.87
			AvgRF	CCRF	% Dev			
54		benzene	0.970	1.011	-4.2	85	0.00	4.26
55		heptane	0.228	0.227	0.4	78	0.00	4.42
56		isopropyl acetate	0.189	0.204	-7.9	86	0.00	4.33
57		1,2-dichloroethane	0.305	0.269	11.8	77	0.00	4.35
58		trichloroethene	0.258	0.247	4.3	79	0.00	4.88
59		ethyl acrylate		----------NA----------				
60		2-nitropropane	0.068	0.063	7.4	76	0.00	5.72
61		2-chloroethyl vinyl ether	0.122	0.139	-13.9	92	0.00	5.73
62		methyl methacrylate	0.049	0.053	-8.2	87	0.00	5.24
63		1,2-dichloropropane	0.234	0.257	-9.8	89	0.00	5.14
64		methylcyclohexane	0.464	0.457	1.5	78	0.00	4.98
65		dibromomethane	0.120	0.119	0.8	81	0.00	5.27
66		bromodichloromethane	0.304	0.291	4.3	78	0.00	5.42
67		epichlorohydrin	0.016	0.020	-25.0#	98	0.00	5.81
68		cis-1,3-dichloropropene	0.366	0.394	-7.7	84	0.00	5.86
69		4-methyl-2-pentanone	0.028	0.033	-17.9	91	0.00	5.99
			True	Calc.	% Drift			
70		3-methyl-1-butanol	1000.000	1048.912	-4.9	93	0.00	6.08
			AvgRF	CCRF	% Dev			
71	I	chlorobenzene-d5	1.000	1.000	0.0	93	0.00	7.37
72	S	toluene-d8 (s)	1.320	1.344	-1.8	94	0.00	6.05
73		toluene	0.706	0.720	-2.0	82	0.00	6.11
74		trans-1,3-dichloropropene	0.355	0.360	-1.4	82	0.00	6.41
75		ethyl methacrylate	0.283	0.315	-11.3	92	0.00	6.43
76		1,1,2-trichloroethane	0.175	0.183	-4.6	85	0.00	6.57
77		2-hexanone	0.070	0.083	-18.6	91	0.00	6.77
78		tetrachloroethene	0.320	0.300	6.3	74	0.00	6.60
79		1,3-dichloropropane	0.367	0.378	-3.0	86	0.00	6.72
80		butyl acetate	0.137	0.165	-20.4#	100	0.00	6.86
81		dibromochloromethane	0.245	0.231	5.7	78	0.00	6.89
82		1,2-dibromoethane	0.202	0.205	-1.5	84	0.00	6.99
83		n-butyl ether	1.142	1.375	-20.4#	94	0.00	7.44

Continuing Calibration Summary

Job Number: JD29923 **Sample:** V3C7462-CC7415
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 3C168620.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

84		chlorobenzene	0.753	0.728	3.3	80	0.00	7.40
85		1,1,1,2-tetrachloroethane	0.261	0.253	3.1	78	0.00	7.48
86		ethylbenzene	1.362	1.335	2.0	80	0.00	7.46
87		m,p-xylene	0.516	0.514	0.4	80	0.00	7.57
88		o-xylene	1.040	1.046	-0.6	81	0.00	7.90
89		styrene	0.855	0.861	-0.7	81	0.00	7.93
90		bromoform	0.161	0.151	6.2	76	0.00	8.11
		----------	True	Calc.	% Drift	----------		
91		butyl acrylate	50.000	50.041	-0.1	87	0.00	7.90
		----------	AvgRF	CCRF	% Dev	----------		
92		isopropylbenzene	1.350	1.320	2.2	79	0.00	8.20
93		cis-1,4-dichloro-2-butene	0.080	0.081	-1.3	81	0.00	8.33
94	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	91	0.00	9.30
95	S	4-bromofluorobenzene (s)	0.913	0.978	-7.1	96	0.00	8.37
96		bromobenzene	0.653	0.629	3.7	79	0.00	8.48
97		1,1,2,2-tetrachloroethane	0.478	0.511	-6.9	85	0.00	8.53
98		trans-1,4-dichloro-2-bute	0.066	0.072	-9.1	82	0.00	8.58
99		1,2,3-trichloropropane	0.142	0.148	-4.2	83	0.00	8.56
100		n-propylbenzene	3.105	3.203	-3.2	79	0.00	8.54
101		2-chlorotoluene	0.622	0.624	-0.3	80	0.00	8.63
102		4-chlorotoluene	0.650	0.641	1.4	79	0.00	8.73
103		1,3,5-trimethylbenzene	2.130	2.177	-2.2	80	0.00	8.69
104		tert-butylbenzene	1.933	1.921	0.6	77	0.00	8.94
105		1,2,4-trimethylbenzene	2.163	2.206	-2.0	79	0.00	8.99
106		sec-butylbenzene	2.860	2.926	-2.3	78	0.00	9.12
107		1,3-dichlorobenzene	1.296	1.223	5.6	78	0.00	9.24
108		p-isopropyltoluene	2.503	2.475	1.1	76	0.00	9.24
109		1,4-dichlorobenzene	1.314	1.229	6.5	77	0.00	9.32
110		1,2,3-trimethylbenzene	2.156	2.243	-4.0	80	0.00	9.33
111		1,2-dichlorobenzene	1.165	1.124	3.5	78	0.00	9.61
112		n-butylbenzene	1.289	1.291	-0.2	77	0.00	9.56
113		1,2-dibromo-3-chloropropa	0.109	0.106	2.8	75	0.00	10.25
114		1,3,5-trichlorobenzene	1.060	1.057	0.3	80	0.00	10.37
115		1,2,4-trichlorobenzene	0.946	0.909	3.9	76	0.00	10.86
116		hexachlorobutadiene	0.609	0.565	7.2	74	0.00	10.95
117		naphthalene	1.706	1.818	-6.6	80	0.00	11.05
118		1,2,3-trichlorobenzene	0.861	0.845	1.9	78	0.00	11.24
119		hexachloroethane	0.372	0.371	0.3	75	0.00	9.78
		----------	True	Calc.	% Drift	----------		
120		benzyl chloride	50.000	54.539	-9.1	95	0.00	9.44
		----------	AvgRF	CCRF	% Dev	----------		
121		2-methylnaphthalene	1.127	1.119	0.7	77	0.00	11.91

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3C167231.D M3C7415.M Fri Aug 20 01:45:28 2021

Initial Calibration Summary

Job Number: JD29923 **Sample:** V4D4892-ICC4892
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 4D109994.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Response Factor Report MS4D

Method : C:\MSDCHEM\1\METHODS\M4D4892.M (RTE Integrator)
Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
Last Update : Tue Aug 03 17:27:40 2021
Response via : Initial Calibration

Calibration Files
1 =4D109989.D 0.5 =4D109988.D 100 =4D109995.D 50 =4D109994.D
20 =4D109993.D 200 =4D109996.D 4 =4D109991.D 2 =4D109990.D
8 =4D109992.D 0.2 =4D109987.D = =

Compound	1	0.5	100	50	20	200	4	2	8	0.2	Avg	%RSD
1) tert butyl alcohol-d9	----------ISTD----------											
2) tertiary butyl alcohol	1.145	1.285	1.327	1.324	1.247	1.247	1.342	1.419	1.274		1.290	5.93
3) ethanol	0.124	0.127	0.126	0.122	0.117	0.118	0.124	0.130	0.115		0.123	3.97
4) 1,4-dioxane	0.086		0.114	0.115	0.108	0.108	0.113	0.114	0.105		0.108	8.96
5) I pentafluorobenzene	----------ISTD----------											
6) chlorodifluoromethane	0.415	0.451	0.489	0.432	0.402	0.455	0.445	0.486	0.471		0.449	6.63
7) dichlorodifluoromethane	0.640	0.572	0.711	0.630	0.613	0.673	0.592	0.631	0.686		0.639	7.02
8) chloromethane	0.551	0.550	0.509	0.460	0.462	0.480	0.478	0.522	0.534	0.525	0.507	6.84
9) vinyl chloride	0.504	0.475	0.531	0.485	0.474	0.496	0.489	0.492	0.541		0.498	4.70
10) 1,3-butadiene	0.415	0.435	0.415	0.386	0.372	0.378	0.425	0.453	0.442	0.434	0.415	6.80
11) bromomethane	0.296		0.365	0.302	0.272	0.218	0.296	0.310	0.286		0.293	13.94
12) chloroethane	0.261	0.212	0.287	0.259	0.254	0.267	0.266	0.257	0.275		0.260	7.95
13) trichlorofluoromethane	0.706	0.625	0.773	0.700	0.682	0.724	0.711	0.687	0.731		0.704	5.73
14) vinyl bromide	0.308	0.252	0.349	0.310	0.300	0.330	0.317	0.298	0.324		0.310	8.66
15) ethyl ether		0.232	0.213	0.196	0.219	0.207	0.212	0.211			0.213	5.16
16) acrolein		0.082	0.076	0.075	0.077	0.079	0.059	0.071			0.074	10.07
17) freon 113	0.296	0.279	0.358	0.322	0.301	0.325	0.340	0.337	0.333		0.321	7.73
18) 1,1-dichloroethene	0.365	0.422	0.360	0.331	0.313	0.329	0.365	0.365	0.347		0.355	8.88
19) acetone	0.182		0.198	0.188	0.175	0.196	0.190	0.208	0.176		0.189	6.02
20) acetonitrile	0.086		0.074	0.071	0.068	0.070	0.080	0.088	0.074		0.076	9.77
21) iodomethane	*This compound fails Initial Calibration criteria*											
		0.509	0.453	0.382	0.449	0.220	0.130	0.332			0.353	38.70
22) carbon disulfide	1.032	1.132	1.135	1.036	0.978	1.061	1.099	1.154	1.084	1.278	1.099	7.55
23) methylene chloride												

```
      0.377 0.450 0.413 0.379 0.356 0.384 0.417 0.443 0.398        0.402    7.85
24)  methyl acetate
                0.448 0.423 0.410 0.445 0.491 0.422 0.430        0.438    6.08
25)  methyl tert butyl ether
      1.097 1.216 1.251 1.154 1.094 1.179 1.254 1.304 1.199 1.383  1.213    7.41
26)  trans-1,2-dichloroethene
      0.364 0.459 0.398 0.365 0.349 0.365 0.408 0.443 0.394 0.442  0.399    9.70
27)  di-isopropyl ether
      1.034 1.205 1.237 1.142 1.092 1.146 1.233 1.297 1.205 1.205  1.180    6.51
28)  2-butanone
                0.076 0.073 0.067 0.073 0.069 0.074 0.070        0.071    4.52
29)  1,1-dichloroethane
      0.589 0.628 0.707 0.634 0.608 0.650 0.701 0.709 0.668 0.555  0.645    8.14
30)  chloroprene
      0.476 0.459 0.576 0.532 0.504 0.531 0.534 0.567 0.542 0.413  0.513    9.92
31)  acrylonitrile
                0.185 0.167 0.162 0.175 0.164 0.146 0.151        0.164    8.13
32)  hexane
      0.225 0.228 0.261 0.232 0.218 0.240 0.243 0.254 0.246        0.239    5.95
33)  vinyl acetate
                0.082 0.059 0.067 0.057 0.067 0.058 0.069        0.066   13.52
34)  ethyl tert-butyl ether
      1.072 1.182 1.331 1.235 1.147 1.261 1.239 1.322 1.232 1.112  1.213    6.99
35)  ethyl acetate
                0.075 0.070 0.065 0.071 0.069 0.067 0.066        0.069    4.86
36)  2,2-dichloropropane
      0.611 0.602 0.611 0.572 0.532 0.549 0.593 0.648 0.597 0.596  0.591    5.60
37)  cis-1,2-dichloroethene
      0.425 0.465 0.441 0.411 0.386 0.406 0.424 0.483 0.429        0.430    6.91
38)  methyl acrylate
                0.506 0.478 0.454 0.483 0.513 0.571 0.504        0.501    7.34
39)  propionitrile
      0.077 0.071 0.092 0.088 0.083 0.086 0.089 0.095 0.087        0.085    8.72
40)  bromochloromethane
      0.190 0.180 0.234 0.218 0.207 0.218 0.223 0.235 0.224        0.214    8.79
41)  tetrahydrofuran
      0.100 0.106 0.087 0.083 0.079 0.084 0.088 0.094 0.084        0.089    9.90
42)  chloroform
      0.472 0.580 0.507 0.472 0.445 0.471 0.504 0.539 0.490        0.498    8.23
43)  t-butyl formate    *This compound fails Initial Calibration criteria*
      0.318 0.329 0.352 0.290 0.318 0.300 0.343 0.368 0.340        0.329    7.59
44)  dibromofluoromethane (s)
      0.469 0.472 0.469 0.471 0.467 0.475 0.471 0.481 0.473 0.474  0.472    0.83
45)  methacrylonitrile
      0.188       0.227 0.214 0.193 0.219 0.207 0.214 0.215        0.210    6.22
46)  1,1,1-trichloroethane
      0.585 0.646 0.667 0.633 0.589 0.643 0.641 0.681 0.645 0.598  0.633    5.10
47)  cyclohexane
      0.585 0.514 0.580 0.552 0.530 0.553 0.539 0.562 0.576 0.438  0.543    7.98
48)  1,1-dichloropropene
      0.465 0.513 0.526 0.509 0.473 0.508 0.499 0.554 0.523 0.465  0.503    5.74
49)  isobutyl alcohol
                                                                   0.000   -1.00
50)  carbon tetrachloride
      0.537 0.540 0.585 0.572 0.544 0.569 0.577 0.603 0.576 0.478  0.558    6.32
51)  tert amyl alcohol
                0.031 0.031 0.030 0.031 0.036       0.033        0.032    6.64

52) I   1,4-difluorobenzene   ----------------ISTD---------------------
53)  1,2-dichloroethane-d4 (s)
```

0.369 0.369 0.361 0.351 0.382 0.363 0.358 0.373 0.373 0.369 0.367 2.37

54) n-butyl alcohol
0.014 0.017 0.016 0.016 0.017 0.016 0.017 0.016 0.016 6.67

55) 2,2,4-trimethylpentane
0.627 0.684 0.658 0.619 0.620 0.617 0.642 0.668 0.649 0.630 0.641 3.58

56) benzene
0.925 1.015 1.056 1.020 1.010 0.985 1.037 1.116 1.044 1.028 1.024 4.79

57) tert-amyl methyl ether
0.185 0.192 0.221 0.216 0.214 0.215 0.218 0.240 0.218 0.213 7.58

58) heptane
0.129 0.123 0.150 0.137 0.137 0.143 0.135 0.143 0.140 0.137 5.77

59) isopropyl acetate
0.086 0.081 0.079 0.083 0.078 0.087 0.079 0.082 4.27

60) 1,2-dichloroethane
0.406 0.450 0.423 0.412 0.409 0.408 0.437 0.471 0.429 0.427 5.15

61) trichloroethene
0.282 0.276 0.315 0.319 0.287 0.314 0.305 0.316 0.307 0.302 5.38

62) ethyl acrylate
0.469 0.517 0.491 0.477 0.499 0.497 0.542 0.492 0.498 4.58

63) 2-nitropropane
0.155 0.144 0.137 0.135 0.139 0.149 0.173 0.138 0.146 8.70

64) 2-chloroethyl vinyl ether
0.180 0.179 0.212 0.208 0.199 0.198 0.208 0.218 0.206 0.201 6.82

65) methyl methacrylate
0.106 0.102 0.099 0.103 0.102 0.090 0.097 0.100 5.28

66) 1,2-dichloropropane
0.251 0.248 0.281 0.272 0.265 0.271 0.275 0.284 0.271 0.230 0.265 6.39

67) dibromomethane
0.190 0.188 0.207 0.204 0.198 0.201 0.211 0.224 0.206 0.223 0.205 5.98

68) methylcyclohexane
0.375 0.394 0.425 0.402 0.396 0.400 0.403 0.415 0.408 0.331 0.395 6.63

69) bromodichloromethane
0.371 0.401 0.419 0.402 0.398 0.406 0.418 0.435 0.405 0.430 0.409 4.49

70) epichlorohydrin
0.044 0.049 0.048 0.048 0.048 0.052 0.054 0.048 0.049 5.97

71) cis-1,3-dichloropropene
0.404 0.434 0.475 0.440 0.444 0.464 0.459 0.490 0.459 0.416 0.449 5.86

72) 4-methyl-2-pentanone
0.137 0.148 0.159 0.154 0.157 0.146 0.163 0.169 0.161 0.155 6.34

73) 3-methyl-1-butanol
0.013 0.013 0.016 0.015 0.016 0.015 0.016 0.015 0.015 0.015 7.98

74) I chlorobenzene-d5 ----------ISTD----------

75) toluene-d8 (s)
1.366 1.364 1.343 1.352 1.420 1.370 1.380 1.369 1.368 1.357 1.369 1.52

76) toluene
0.708 0.743 0.804 0.793 0.773 0.771 0.803 0.839 0.795 0.767 0.780 4.64

77) trans-1,3-dichloropropene
0.484 0.504 0.544 0.535 0.517 0.540 0.535 0.560 0.521 0.506 0.525 4.29

78) ethyl methacrylate
0.465 0.431 0.552 0.545 0.521 0.543 0.534 0.540 0.528 0.518 7.99

79) 1,1,2-trichloroethane
0.254 0.268 0.291 0.286 0.274 0.285 0.290 0.286 0.289 0.248 0.277 5.65

80) tetrachloroethene
0.265 0.262 0.298 0.292 0.291 0.290 0.294 0.307 0.296 0.237 0.283 7.57

81) 1,3-dichloropropane
0.477 0.511 0.516 0.518 0.506 0.497 0.524 0.562 0.516 0.450 0.508 5.83

82) 2-hexanone
0.176 0.171 0.209 0.214 0.206 0.202 0.215 0.219 0.211 0.203 8.50

83) butyl acetate

```
      0.263       0.302 0.300 0.288 0.296 0.301 0.320 0.292        0.295    5.42
 84)  dibromochloromethane
      0.390 0.400 0.423 0.410 0.403 0.423 0.416 0.445 0.406 0.403  0.412    3.75
 85)  1,2-dibromoethane
      0.388 0.396 0.442 0.435 0.422 0.438 0.441 0.452 0.433        0.427    5.04
 86)  n-butyl ether
      1.172 1.252 1.366 1.316 1.216 1.335 1.281 1.360 1.280 1.287  1.287    4.80
 87)  chlorobenzene
      0.759 0.827 0.864 0.853 0.805 0.851 0.873 0.897 0.862 0.878  0.847    4.77
 88)  1,1,1,2-tetrachloroethane
      0.303 0.318 0.338 0.334 0.317 0.337 0.335 0.357 0.334 0.276  0.325    6.96
 89)  ethylbenzene
      1.292 1.372 1.439 1.423 1.345 1.360 1.419 1.487 1.414 1.534  1.408    4.98
 90)  m,p-xylene
      0.482 0.499 0.532 0.535 0.504 0.506 0.538 0.553 0.527 0.551  0.523    4.50
 91)  o-xylene
      0.475 0.465 0.525 0.522 0.496 0.493 0.534 0.543 0.518 0.502  0.507    4.99
 92)  styrene
      0.767 0.816 0.920 0.909 0.858 0.869 0.891 0.936 0.890 0.742  0.860    7.59
 93)  bromoform
      0.287 0.322 0.348 0.337 0.311 0.359 0.331 0.349 0.328 0.303  0.328    6.81
 94)  butyl acrylate
      0.671 0.714 0.821 0.790 0.738 0.809 0.757 0.777 0.758        0.760    6.19
 95)  isopropylbenzene
      1.161 1.203 1.323 1.276 1.200 1.284 1.273 1.338 1.272 1.263  1.259    4.42
 96)  cis-1,4-dichloro-2-butene
                  0.188 0.178 0.162 0.192 0.156 0.160 0.159        0.171    8.71

 97) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
 98)  4-bromofluorobenzene (s)
      1.112 1.125 1.105 1.061 1.068 1.065 1.134 1.084 1.056 1.112  1.092    2.65
 99)  bromobenzene
      0.765 0.814 0.895 0.851 0.801 0.820 0.868 0.906 0.804 0.990  0.851    7.73
100)  1,1,2,2-tetrachloroethane
      1.048 1.074 1.155 1.073 1.058 1.050 1.205 1.193 1.066 1.097  1.102    5.42
101)  trans-1,4-dichloro-2-butene
                  0.325 0.306 0.278 0.307 0.286 0.286 0.270        0.294    6.54
102)  1,2,3-trichloropropane
      0.267 0.266 0.319 0.307 0.291 0.298 0.330 0.341 0.293        0.301    8.59
103)  n-propylbenzene
      3.155 3.293 3.495 3.301 3.127 3.097 3.452 3.489 3.198 4.017  3.362    8.14
104)  2-chlorotoluene
      0.621 0.662 0.729 0.694 0.655 0.660 0.750 0.765 0.670 0.585  0.679    8.30
105)  4-chlorotoluene
      2.099 2.308 2.240 2.139 2.038 2.026 2.280 2.270 2.091 2.767  2.226    9.72
106)  1,3,5-trimethylbenzene
      2.135 2.329 2.371 2.248 2.130 2.134 2.342 2.375 2.169 2.481  2.272    5.52
107)  tert-butylbenzene
      0.374 0.407 0.431 0.416 0.368 0.406 0.405 0.409 0.400 0.426  0.404    4.95
108)  1,2,4-trimethylbenzene
      2.126 2.406 2.393 2.310 2.120 2.220 2.339 2.340 2.229        2.276    4.71
109)  sec-butylbenzene
      2.429 2.595 2.746 2.626 2.369 2.547 2.625 2.643 2.506 3.109  2.619    7.79
110)  1,3-dichlorobenzene
      1.177 1.289 1.416 1.385 1.267 1.339 1.396 1.454 1.349 1.561  1.363    7.80
111)  p-isopropyltoluene
      2.044 2.153 2.280 2.186 1.946 2.150 2.133 2.174 2.098 2.234  2.140    4.43
112)  1,4-dichlorobenzene
      1.315 1.308 1.451 1.426 1.343 1.369 1.469 1.502 1.390        1.397    4.96
113)  1,2,3-trimethylbenzene
```

Initial Calibration Summary

Job Number: JD29923 **Sample:** V4D4892-ICC4892
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 4D109994.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

```
       2.137 2.283 2.366 2.309 2.133 2.211 2.335 2.443 2.257 2.508  2.298    5.31
114)  benzyl chloride
       1.761 1.962 2.024 1.987 1.851 1.907 1.968 1.982 1.846 2.088  1.938    4.98
115)  1,2-dichlorobenzene
       1.123 1.214 1.358 1.323 1.231 1.314 1.328 1.333 1.275 1.341  1.284    5.76
116)  n-butylbenzene
       0.782 0.864 1.008 0.928 0.862 0.968 0.908 0.927 0.880 0.793  0.892    7.99
117)  1,2-dibromo-3-chloropropane
                   0.323 0.313 0.285 0.326 0.288 0.291 0.281        0.301    6.30
118)  1,3,5-trichlorobenzene
       0.610       0.823 0.767 0.711 0.839 0.733 0.740 0.726        0.744    9.55
119)  2-ethylhexyl acrylate
                                                                    0.000   -1.00
120)  1,2,4-trichlorobenzene
       0.478 0.529 0.703 0.631 0.594 0.717 0.582 0.587 0.593 0.671  0.609   12.25
121)  hexachlorobutadiene
       0.264 0.269 0.330 0.319 0.304 0.334 0.296 0.327 0.309 0.288  0.304    8.09
122)  naphthalene
       1.377 1.423 1.832 1.719 1.546 1.808 1.578 1.581 1.516        1.598    9.96
123)  1,2,3-trichlorobenzene
       0.442       0.601 0.563 0.522 0.593 0.529 0.537 0.513        0.537    9.42
124)  hexachloroethane
       0.372       0.482 0.442 0.409 0.474 0.422 0.441 0.413        0.432    8.33
125)  2-methylnaphthalene
                   0.401 0.404 0.396 0.359             0.449        0.402    7.93

126)     pentafluorobenzene(a) ----------------ISTD---------------------
127)  freon 142B
                   0.778 0.668 0.686       0.738 0.787 0.688        0.724    7.02
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M4D4892.M         Tue Aug 03 17:27:53 2021
```

Initial Calibration Verification

Job Number: JD29923 **Sample:** V4D4892-ICV4892
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 4D109999.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\V4D4892\4D109999.D Vial: 14
Acq On : 20 May 2021 2:14 am Operator: EddieH
Sample : ICV4892-50 Inst : MS4D
Misc : MS50838,V4D4892,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M4D4892.M (RTE Integrator)
Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
Last Update : Fri May 21 10:28:08 2021
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		tert butyl alcohol-d9	1.000	1.000	0.0	96	0.00	8.63
2	M	tertiary butyl alcohol	1.290	1.362	-5.6	98	0.00	8.76
3		ethanol	0.123	0.129	-4.9	101	0.00	7.16
4	M	1,4-dioxane	0.108	0.118	-9.3	98	0.00	12.66
5	I	pentafluorobenzene	1.000	1.000	0.0	96	0.00	11.12
6	M	chlorodifluoromethane		----------NA----------				
7	M	dichlorodifluoromethane	0.639	0.652	-2.0	99	0.00	4.60
8	M	chloromethane	0.507	0.442	12.8	92	-0.01	5.10
9	M	vinyl chloride	0.498	0.481	3.4	95	0.00	5.35
10		1,3-butadiene	0.415	0.372	10.4	93	0.00	5.46
11	M	bromomethane	0.293	0.318	-8.5	101	0.00	6.14
12	M	chloroethane	0.260	0.256	1.5	95	0.00	6.37
13	M	trichlorofluoromethane	0.704	0.703	0.1	97	0.00	6.94
14		vinyl bromide	0.310	0.351	-13.2	109	0.00	6.79
15	M	ethyl ether	0.213	0.215	-0.9	97	0.00	7.47
16	M	acrolein	0.074	0.092	-24.3	117	0.00	7.68
17		freon 113	0.321	0.302	5.9	90	0.00	7.92
18	M	1,1-dichloroethene	0.355	0.333	6.2	97	0.00	7.93
19	M	acetone	0.189	0.184	2.6	94	0.00	7.92
20	M	acetonitrile		----------NA----------				
21	M	iodomethane	0.353	0.352	0.3	75	0.00	8.21
22	M	carbon disulfide	1.099	1.026	6.6	95	0.00	8.38
23	M	methylene chloride	0.402	0.384	4.5	97	0.00	8.69
24	M	methyl acetate	0.438	0.400	8.7	91	0.00	8.49
25	M	methyl tert butyl ether	1.213	1.180	2.7	99	0.00	9.13
26	M	trans-1,2-dichloroethene	0.399	0.366	8.3	96	0.00	9.16
27	M	di-isopropyl ether	1.180	1.100	6.8	93	0.00	9.82
28	M	2-butanone	0.071	0.074	-4.2	97	0.00	10.49
29	M	1,1-dichloroethane	0.645	0.656	-1.7	99	0.00	9.75
30	M	chloroprene	0.513	0.574	-11.9	104	0.00	9.91
31	M	acrylonitrile		----------NA----------				
32		hexane	0.239	0.233	2.5	97	0.00	9.58
33	M	vinyl acetate	0.066	0.056	15.2	92	0.00	9.76
34	M	ethyl tert-butyl ether	1.213	1.155	4.8	90	0.00	10.31
35	M	ethyl acetate	0.069	0.067	2.9	93	0.00	10.55
36	M	2,2-dichloropropane	0.591	0.541	8.5	91	0.00	10.57
37	M	cis-1,2-dichloroethene	0.430	0.415	3.5	97	0.00	10.54
38		methyl acrylate	0.501	0.454	9.4	91	0.00	10.63
39	M	propionitrile	0.085	0.087	-2.4	95	0.00	10.54
40	M	bromochloromethane	0.214	0.216	-0.9	95	0.00	10.85
41	M	tetrahydrofuran	0.089	0.082	7.9	96	0.00	10.93

Initial Calibration Verification

Job Number: JD29923 **Sample:** V4D4892-ICV4892
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 4D109999.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

42	M	chloroform	0.498	0.520	-4.4	106	0.00	10.92
43	M	t-butyl formate	0.329	0.181	45.0#	60	0.00	11.00
44	S	dibromofluoromethane (s)	0.472	0.468	0.8	96	0.00	11.12
45	M	methacrylonitrile	0.210	0.210	0.0	94	0.00	10.78
46	M	1,1,1-trichloroethane	0.633	0.620	2.1	94	0.00	11.23
47		cyclohexane	0.543	0.497	8.5	87	0.00	11.34
48		1,1-dichloropropene	0.503	0.494	1.8	93	0.00	11.41
49		isobutyl alcohol		----------NA----------				
50		carbon tetrachloride	0.558	0.560	-0.4	94	0.00	11.45
51		tert amyl alcohol	0.032	0.031	3.1	96	0.00	11.49
52	I	1,4-difluorobenzene	1.000	1.000	0.0	96	0.00	12.00
53	S	1,2-dichloroethane-d4 (s)	0.367	0.357	2.7	98	0.00	11.54
54	M	n-butyl alcohol	0.016	0.016	0.0	92	0.00	12.07
55		2,2,4-trimethylpentane	0.641	0.575	10.3	89	0.00	11.74
56	M	benzene	1.024	1.009	1.5	95	0.00	11.66
57	M	tert-amyl methyl ether	0.213	0.193	9.4	86	0.00	11.72
58	M	heptane	0.137	0.134	2.2	94	0.00	11.90
59	M	isopropyl acetate	0.082	0.079	3.7	94	0.00	11.58
60	M	1,2-dichloroethane	0.427	0.410	4.0	96	0.00	11.63
61	M	trichloroethene	0.302	0.311	-3.0	94	0.00	12.34
62		ethyl acrylate	0.498	0.477	4.2	93	0.00	12.33
63	M	2-nitropropane	0.146	0.136	6.8	95	0.00	12.99
64	M	2-chloroethyl vinyl ether	0.201	0.198	1.5	92	0.00	13.04
65	M	methyl methacrylate	0.100	0.098	2.0	93	0.00	12.58
66	M	1,2-dichloropropane	0.265	0.269	-1.5	95	0.00	12.56
67	M	dibromomethane	0.205	0.198	3.4	94	0.00	12.68
68	M	methylcyclohexane	0.395	0.374	5.3	90	0.00	12.59
69	M	bromodichloromethane	0.409	0.402	1.7	96	0.00	12.81
70		epichlorohydrin	0.049	0.048	2.0	95	0.00	13.12
71	M	cis-1,3-dichloropropene	0.449	0.439	2.2	96	0.00	13.24
72	M	4-methyl-2-pentanone	0.155	0.157	-1.3	98	0.00	13.33
73	M	3-methyl-1-butanol	0.015	0.015	0.0	97	0.00	13.32
74	I	chlorobenzene-d5	1.000	1.000	0.0	101	0.00	14.90
75	S	toluene-d8 (s)	1.369	1.342	2.0	100	0.00	13.54
76		toluene	0.780	0.775	0.6	98	0.00	13.61
77		trans-1,3-dichloropropene	0.525	0.532	-1.3	100	0.00	13.74
78		ethyl methacrylate	0.518	0.505	2.5	93	0.00	13.76
79		1,1,2-trichloroethane	0.277	0.278	-0.4	98	0.00	13.93
80	M	tetrachloroethene		----------NA----------				
81	M	1,3-dichloropropane	0.508	0.506	0.4	98	0.00	14.10
82		2-hexanone	0.203	0.207	-2.0	97	0.00	14.10
83	M	butyl acetate	0.295	0.293	0.7	98	0.00	14.19
84	M	dibromochloromethane	0.412	0.423	-2.7	104	0.00	14.34
85	M	1,2-dibromoethane	0.427	0.438	-2.6	101	0.00	14.49
86		n-butyl ether	1.287	1.274	1.0	97	0.00	14.88
87	M	chlorobenzene	0.847	0.840	0.8	99	0.00	14.93
88	M	1,1,1,2-tetrachloroethane	0.325	0.336	-3.4	101	0.00	14.98
89	M	ethylbenzene	1.408	1.396	0.9	99	0.00	14.99
90	M	m,p-xylene	0.523	0.531	-1.5	100	0.00	15.09
91	M	o-xylene	0.507	0.518	-2.2	100	0.00	15.46
92	M	styrene	0.860	0.895	-4.1	99	0.00	15.46
93	M	bromoform	0.328	0.358	-9.1	107	0.00	15.67
94		butyl acrylate	0.760	0.770	-1.3	98	0.00	15.29
95		isopropylbenzene	1.259	1.331	-5.7	105	0.00	15.78
96		cis-1,4-dichloro-2-butene	0.171	0.186	-8.8	105	0.00	15.79
97	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	101	0.00	17.00
98	S	4-bromofluorobenzene (s)	1.092	1.129	-3.4	108	0.00	15.94

Initial Calibration Verification

Job Number: JD29923 **Sample:** V4D4892-ICV4892
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 4D109999.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

99	M	bromobenzene	0.851	0.910	-6.9	108	0.00	16.12
100	M	1,1,2,2-tetrachloroethane	1.102	1.090	1.1	103	0.00	15.99
101	M	trans-1,4-dichloro-2-bute	0.294	0.329	-11.9	109	0.00	16.03
102	M	1,2,3-trichloropropane	0.301	0.322	-7.0	106	0.00	16.07
103	M	n-propylbenzene	3.362	3.446	-2.5	106	0.00	16.15
104	M	2-chlorotoluene	0.679	0.752	-10.8	110	0.00	16.28
105	M	4-chlorotoluene	2.226	2.232	-0.3	106	0.00	16.36
106	M	1,3,5-trimethylbenzene	2.272	2.398	-5.5	108	0.00	16.29
107	M	tert-butylbenzene	0.404	0.409	-1.2	100	0.00	16.61
108	M	1,2,4-trimethylbenzene	2.276	2.255	0.9	99	0.00	16.64
109	M	sec-butylbenzene	2.619	2.634	-0.6	102	0.00	16.80
110	M	1,3-dichlorobenzene	1.363	1.438	-5.5	105	0.00	16.96
111	M	p-isopropyltoluene	2.140	2.230	-4.2	103	0.00	16.92
112	M	1,4-dichlorobenzene	1.397	1.416	-1.4	100	0.00	17.03
113		1,2,3-trimethylbenzene		----------NA----------				
114		benzyl chloride	1.938	1.859	4.1	95	0.00	17.12
115	M	1,2-dichlorobenzene	1.284	1.287	-0.2	99	0.00	17.39
116	M	n-butylbenzene	0.892	0.922	-3.4	101	0.00	17.29
117	M	1,2-dibromo-3-chloropropa	0.301	0.293	2.7	95	0.00	18.09
118		1,3,5-trichlorobenzene	0.744	0.742	0.3	98	0.00	18.30
119		2-ethylhexyl acrylate		----------NA----------				
120	M	1,2,4-trichlorobenzene	0.609	0.630	-3.4	101	0.00	18.90
121	M	hexachlorobutadiene	0.304	0.316	-3.9	100	0.00	19.03
122	M	naphthalene	1.598	1.673	-4.7	98	0.00	19.15
123	M	1,2,3-trichlorobenzene	0.537	0.562	-4.7	101	0.00	19.38
124	m	hexachloroethane	0.432	0.442	-2.3	101	0.00	17.66
125		2-methylnaphthalene	0.402	0.406	-1.0	102	0.00	20.25

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4D109994.D M4D4892.M Fri May 21 16:37:11 2021

Initial Calibration Verification

Job Number: JD29923 **Sample:** V4D4892-ICV4892
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 4D110000.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\V4D4892\4D110000.D Vial: 15
Acq On : 20 May 2021 2:43 am Operator: EddieH
Sample : ICV4892-50 Inst : MS4D
Misc : MS50838,V4D4892,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M4D4892.M (RTE Integrator)
Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
Last Update : Fri May 21 10:28:08 2021
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		tert butyl alcohol-d9	1.000	1.000	0.0	108	0.00	8.63
2	M	tertiary butyl alcohol		----------NA----------				
3		ethanol		----------NA----------				
4	M	1,4-dioxane		----------NA----------				
5	I	pentafluorobenzene	1.000	1.000	0.0	104	0.00	11.12
6	M	chlorodifluoromethane	0.449	0.519	-15.6	124	0.00	4.65
7	M	dichlorodifluoromethane		----------NA----------				
8	M	chloromethane		----------NA----------				
9	M	vinyl chloride		----------NA----------				
10		1,3-butadiene		----------NA----------				
11	M	bromomethane		----------NA----------				
12	M	chloroethane		----------NA----------				
13	M	trichlorofluoromethane		----------NA----------				
14		vinyl bromide		----------NA----------				
15	M	ethyl ether		----------NA----------				
16	M	acrolein		----------NA----------				
17		freon 113		----------NA----------				
18	M	1,1-dichloroethene		----------NA----------				
19	M	acetone		----------NA----------				
20	M	acetonitrile	0.076	0.070	7.9	103	0.00	8.36
21	M	iodomethane		----------NA----------				
22	M	carbon disulfide		----------NA----------				
23	M	methylene chloride		----------NA----------				
24	M	methyl acetate		----------NA----------				
25	M	methyl tert butyl ether		----------NA----------				
26	M	trans-1,2-dichloroethene		----------NA----------				
27	M	di-isopropyl ether		----------NA----------				
28	M	2-butanone		----------NA----------				
29	M	1,1-dichloroethane		----------NA----------				
30	M	chloroprene		----------NA----------				
31	M	acrylonitrile	0.164	0.202	-23.2	125	0.00	9.02
32		hexane		----------NA----------				
33	M	vinyl acetate		----------NA----------				
34	M	ethyl tert-butyl ether		----------NA----------				
35	M	ethyl acetate		----------NA----------				
36	M	2,2-dichloropropane		----------NA----------				
37	M	cis-1,2-dichloroethene		----------NA----------				
38		methyl acrylate		----------NA----------				
39	M	propionitrile		----------NA----------				
40	M	bromochloromethate		----------NA----------				
41	M	tetrahydrofuran		----------NA----------				

Initial Calibration Verification

Job Number: JD29923 **Sample:** V4D4892-ICV4892
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 4D110000.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

42	M	chloroform		----------NA----------					
43	M	t-butyl formate		----------NA----------					
44	S	dibromofluoromethane (s)	0.472	0.468	0.8	103	0.00	11.12	
45	M	methacrylonitrile		----------NA----------					
46	M	1,1,1-trichloroethane		----------NA----------					
47		cyclohexane		----------NA----------					
48		1,1-dichloropropene		----------NA----------					
49		isobutyl alcohol		----------NA----------					
50		carbon tetrachloride		----------NA----------					
51		tert amyl alcohol		----------NA----------					
52	I	1,4-difluorobenzene	1.000	1.000	0.0	104	0.00	12.00	
53	S	1,2-dichloroethane-d4 (s)	0.367	0.360	1.9	106	0.00	11.54	
54	M	n-butyl alcohol		----------NA----------					
55		2,2,4-trimethylpentane		----------NA----------					
56	M	benzene		----------NA----------					
57	M	tert-amyl methyl ether		----------NA----------					
58	M	heptane		----------NA----------					
59	M	isopropyl acetate		----------NA----------					
60	M	1,2-dichloroethane		----------NA----------					
61	M	trichloroethene		----------NA----------					
62		ethyl acrylate		----------NA----------					
63	M	2-nitropropane		----------NA----------					
64	M	2-chloroethyl vinyl ether		----------NA----------					
65	M	methyl methacrylate		----------NA----------					
66	M	1,2-dichloropropane		----------NA----------					
67	M	dibromomethane		----------NA----------					
68	M	methylcyclohexane		----------NA----------					
69	M	bromodichloromethane		----------NA----------					
70		epichlorohydrin		----------NA----------					
71	M	cis-1,3-dichloropropene		----------NA----------					
72	M	4-methyl-2-pentanone		----------NA----------					
73	M	3-methyl-1-butanol		----------NA----------					
74	I	chlorobenzene-d5	1.000	1.000	0.0	105	0.00	14.90	
75	S	toluene-d8 (s)	1.369	1.366	0.2	106	0.00	13.54	
76		toluene		----------NA----------					
77		trans-1,3-dichloropropene		----------NA----------					
78		ethyl methacrylate		----------NA----------					
79		1,1,2-trichloroethane		----------NA----------					
80	M	tetrachloroethene	0.283	0.300	-6.0	108	0.00	14.15	
81	M	1,3-dichloropropane		----------NA----------					
82		2-hexanone		----------NA----------					
83	M	butyl acetate		----------NA----------					
84	M	dibromochloromethane		----------NA----------					
85	M	1,2-dibromoethane		----------NA----------					
86		n-butyl ether		----------NA----------					
87	M	chlorobenzene		----------NA----------					
88	M	1,1,1,2-tetrachloroethane		----------NA----------					
89	M	ethylbenzene		----------NA----------					
90	M	m,p-xylene		----------NA----------					
91	M	o-xylene		----------NA----------					
92	M	styrene		----------NA----------					
93	M	bromoform		----------NA----------					
94		butyl acrylate		----------NA----------					
95		isopropylbenzene		----------NA----------					
96		cis-1,4-dichloro-2-butene		----------NA----------					
97	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	103	0.00	17.00	
98	S	4-bromofluorobenzene (s)	1.092	1.085	0.6	106	0.00	15.94	

Initial Calibration Verification

Job Number: JD29923 **Sample:** V4D4892-ICV4892
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 4D110000.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

99	M	bromobenzene		----------NA----------				
100	M	1,1,2,2-tetrachloroethane		----------NA----------				
101	M	trans-1,4-dichloro-2-bute		----------NA----------				
102	M	1,2,3-trichloropropane		----------NA----------				
103	M	n-propylbenzene		----------NA----------				
104	M	2-chlorotoluene		----------NA----------				
105	M	4-chlorotoluene		----------NA----------				
106	M	1,3,5-trimethylbenzene		----------NA----------				
107	M	tert-butylbenzene		----------NA----------				
108	M	1,2,4-trimethylbenzene		----------NA----------				
109	M	sec-butylbenzene		----------NA----------				
110	M	1,3-dichlorobenzene		----------NA----------				
111	M	p-isopropyltoluene		----------NA----------				
112	M	1,4-dichlorobenzene		----------NA----------				
113		1,2,3-trimethylbenzene	2.298	1.971	14.2	88	0.00	17.05
114		benzyl chloride		----------NA----------				
115	M	1,2-dichlorobenzene		----------NA----------				
116	M	n-butylbenzene		----------NA----------				
117	M	1,2-dibromo-3-chloropropa		----------NA----------				
118		1,3,5-trichlorobenzene		----------NA----------				
119		2-ethylhexyl acrylate		----------NA----------				
120	M	1,2,4-trichlorobenzene		----------NA----------				
121	M	hexachlorobutadiene		----------NA----------				
122	M	naphthalene		----------NA----------				
123	M	1,2,3-trichlorobenzene		----------NA----------				
124	m	hexachloroethane		----------NA----------				
125		2-methylnaphthalene		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4D109994.D M4D4892.M Fri May 21 16:37:14 2021

Continuing Calibration Summary

Job Number: JD29923 **Sample:** V4D4985-CC4892
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 4D111912.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\da...21\v4d4985\4d111912.d Vial: 4
Acq On : 19 Aug 2021 10:18 am Operator: jons2
Sample : cc4892-20 Inst : MS4D
Misc : MS53003,V4D4985,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M4D4892.M (RTE Integrator)
Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
Last Update : Tue Aug 03 17:27:40 2021
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		tert butyl alcohol-d9	1.000	1.000	0.0	94	-0.01	8.62
2	M	tertiary butyl alcohol	1.290	1.218	5.6	92	0.00	8.76
3		ethanol	0.123	0.117	4.9	94	0.00	7.16
4	M	1,4-dioxane	0.108	0.097	10.2	84	0.00	12.66
5	I	pentafluorobenzene	1.000	1.000	0.0	85	0.00	11.11
6	M	chlorodifluoromethane	0.449	0.366	18.5	77	0.00	4.66
7	M	dichlorodifluoromethane	0.639	0.538	15.8	75	0.00	4.60
8	M	chloromethane	0.507	0.490	3.4	90	0.00	5.11
9	M	vinyl chloride	0.498	0.461	7.4	83	0.00	5.35
10		1,3-butadiene	0.415	0.297	28.4#	68	0.00	5.46
11	M	bromomethane	0.293	0.207	29.4#	65	0.00	6.14
12	M	chloroethane	0.260	0.243	6.5	81	0.00	6.37
13	M	trichlorofluoromethane	0.704	0.666	5.4	83	0.00	6.94
14		vinyl bromide	0.310	0.233	24.8#	66	0.00	6.79
15	M	ethyl ether	0.213	0.197	7.5	86	0.00	7.47
16	M	acrolein	0.074	0.086	-16.2	98	0.01	7.69
17		freon 113	0.321	0.281	12.5	79	0.00	7.93
18	M	1,1-dichloroethene	0.355	0.296	16.6	80	0.00	7.93
19	M	acetone	0.189	0.180	4.8	87	0.00	7.93
20	M	acetonitrile	0.076	0.076	0.0	94	0.00	8.36
21	M	iodomethane	0.353	0.204	42.2#	45#	0.00	8.21
22	M	carbon disulfide	1.099	0.882	19.7	77	0.00	8.37
23	M	methylene chloride	0.402	0.364	9.5	87	0.00	8.69
24	M	methyl acetate	0.438	0.451	-3.0	93	0.00	8.50
25	M	methyl tert butyl ether	1.213	1.212	0.1	94	0.00	9.13
26	M	trans-1,2-dichloroethene	0.399	0.354	11.3	86	0.00	9.16
27	M	di-isopropyl ether	1.180	1.264	-7.1	98	0.00	9.82
28	M	2-butanone	0.071	0.070	1.4	90	0.00	10.49
29	M	1,1-dichloroethane	0.645	0.671	-4.0	94	0.00	9.75
30	M	chloroprene	0.513	0.561	-9.4	95	0.00	9.91
31	M	acrylonitrile	0.164	0.164	0.0	86	0.00	9.02
32		hexane	0.239	0.234	2.1	91	0.00	9.58
33	M	vinyl acetate	0.066	0.091	-37.9#	114	0.00	9.76
34	M	ethyl tert-butyl ether	1.213	1.299	-7.1	96	0.00	10.31
35	M	ethyl acetate	0.069	0.062	10.1	80	0.00	10.55
36	M	2,2-dichloropropane	0.591	0.620	-4.9	99	0.00	10.57
37	M	cis-1,2-dichloroethene	0.430	0.396	7.9	87	0.00	10.54
38		methyl acrylate	0.501	0.490	2.2	92	0.00	10.63
39	M	propionitrile	0.085	0.087	-2.4	90	0.00	10.54
40	M	bromochloromethane	0.214	0.200	6.5	82	0.00	10.85
41	M	tetrahydrofuran	0.089	0.085	4.5	91	0.00	10.93

Continuing Calibration Summary

Job Number: JD29923 **Sample:** V4D4985-CC4892
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 4D111912.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

42	M	chloroform	0.498	0.476	4.4	91	0.00	10.92
43	M	t-butyl formate	0.329	0.449	-36.5#	120	0.00	11.00
44	S	dibromofluoromethane (s)	0.472	0.485	-2.8	88	0.00	11.11
45	M	methacrylonitrile	0.210	0.204	2.9	90	0.00	10.78
46	M	1,1,1-trichloroethane	0.633	0.643	-1.6	93	0.00	11.22
47		cyclohexane	0.543	0.432	20.4#	69	0.00	11.34
48		1,1-dichloropropene	0.503	0.481	4.4	86	0.00	11.41
49		isobutyl alcohol		----------NA----------				
50		carbon tetrachloride	0.558	0.576	-3.2	90	0.00	11.45
51		tert amyl alcohol	0.032	0.032	0.0	89	-0.01	11.48
52	I	1,4-difluorobenzene	1.000	1.000	0.0	89	0.00	12.00
53	S	1,2-dichloroethane-d4 (s)	0.367	0.425	-15.8	99	0.00	11.54
54	M	n-butyl alcohol	0.016	0.015	6.3	84	0.00	12.07
55		2,2,4-trimethylpentane	0.641	0.564	12.0	81	0.00	11.74
56	M	benzene	1.024	0.987	3.6	87	0.00	11.66
57	M	tert-amyl methyl ether	0.213	0.217	-1.9	90	0.00	11.72
58	M	heptane	0.137	0.128	6.6	83	0.00	11.90
59	M	isopropyl acetate	0.082	0.077	6.1	87	0.00	11.58
60	M	1,2-dichloroethane	0.427	0.436	-2.1	95	0.00	11.63
61	M	trichloroethene	0.302	0.266	11.9	83	0.00	12.33
62		ethyl acrylate	0.498	0.450	9.6	84	0.00	12.33
63	M	2-nitropropane	0.146	0.128	12.3	84	0.00	12.99
64	M	2-chloroethyl vinyl ether	0.201	0.183	9.0	82	0.00	13.04
65	M	methyl methacrylate	0.100	0.088	12.0	80	0.00	12.58
66	M	1,2-dichloropropane	0.265	0.252	4.9	84	0.00	12.56
67	M	dibromomethane	0.205	0.193	5.9	87	0.00	12.68
68	M	methylcyclohexane	0.395	0.344	12.9	78	0.00	12.60
69	M	bromodichloromethane	0.409	0.394	3.7	88	0.00	12.80
70		epichlorohydrin	0.049	0.044	10.2	81	0.00	13.12
71	M	cis-1,3-dichloropropene	0.449	0.434	3.3	87	0.00	13.24
72	M	4-methyl-2-pentanone	0.155	0.137	11.6	78	0.00	13.33
73	M	3-methyl-1-butanol	0.015	0.013	13.3	74	0.00	13.32
74	I	chlorobenzene-d5	1.000	1.000	0.0	90	0.00	14.90
75	S	toluene-d8 (s)	1.369	1.301	5.0	82	0.00	13.54
76		toluene	0.780	0.681	12.7	79	0.00	13.61
77		trans-1,3-dichloropropene	0.525	0.492	6.3	85	0.00	13.74
78		ethyl methacrylate	0.518	0.454	12.4	78	0.00	13.76
79		1,1,2-trichloroethane	0.277	0.254	8.3	83	0.00	13.93
80	M	tetrachloroethene	0.283	0.269	4.9	83	0.00	14.15
81	M	1,3-dichloropropane	0.508	0.449	11.6	80	0.00	14.10
82		2-hexanone	0.203	0.174	14.3	76	0.00	14.11
83	M	butyl acetate	0.295	0.254	13.9	79	0.00	14.19
84	M	dibromochloromethane	0.412	0.377	8.5	84	0.00	14.34
85	M	1,2-dibromoethane	0.427	0.417	2.3	89	0.00	14.49
86		n-butyl ether	1.287	1.072	16.7	79	0.00	14.88
87	M	chlorobenzene	0.847	0.729	13.9	81	0.00	14.93
88	M	1,1,1,2-tetrachloroethane	0.325	0.313	3.7	89	0.00	14.97
89	M	ethylbenzene	1.408	1.251	11.2	84	0.00	14.99
90	M	m,p-xylene	0.523	0.472	9.8	84	0.00	15.09
91	M	o-xylene	0.507	0.456	10.1	83	0.00	15.46
92	M	styrene	0.860	0.796	7.4	83	0.00	15.46
93	M	bromoform	0.328	0.304	7.3	88	0.00	15.67
94		butyl acrylate	0.760	0.631	17.0	77	0.00	15.29
95		isopropylbenzene	1.259	1.149	8.7	86	0.00	15.78
96		cis-1,4-dichloro-2-butene	0.171	0.160	6.4	89	0.00	15.79
97	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	91	0.00	17.00
98	S	4-bromofluorobenzene (s)	1.092	1.037	5.0	89	0.00	15.93

Continuing Calibration Summary

Job Number: JD29923 **Sample:** V4D4985-CC4892
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 4D111912.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

99	M	bromobenzene	0.851	0.756	11.2	86	0.00	16.12
100	M	1,1,2,2-tetrachloroethane	1.102	0.945	14.2	82	0.00	15.99
101	M	trans-1,4-dichloro-2-bute	0.294	0.267	9.2	88	0.00	16.03
102	M	1,2,3-trichloropropane	0.301	0.277	8.0	87	0.00	16.07
103	M	n-propylbenzene	3.362	2.953	12.2	86	0.00	16.15
104	M	2-chlorotoluene	0.679	0.620	8.7	87	0.00	16.27
105	M	4-chlorotoluene	2.226	1.921	13.7	86	0.00	16.36
106	M	1,3,5-trimethylbenzene	2.272	2.029	10.7	87	0.00	16.28
107	M	tert-butylbenzene	0.404	0.347	14.1	86	0.00	16.61
108	M	1,2,4-trimethylbenzene	2.276	2.035	10.6	88	0.00	16.64
109	M	sec-butylbenzene	2.619	2.265	13.5	87	0.00	16.81
110	M	1,3-dichlorobenzene	1.363	1.227	10.0	89	0.00	16.95
111	M	p-isopropyltoluene	2.140	1.922	10.2	90	0.00	16.91
112	M	1,4-dichlorobenzene	1.397	1.231	11.9	84	0.00	17.03
113		1,2,3-trimethylbenzene	2.298	1.983	13.7	85	0.00	17.05
114		benzyl chloride	1.938	1.851	4.5	91	0.00	17.12
115	M	1,2-dichlorobenzene	1.284	1.152	10.3	86	0.00	17.39
116	M	n-butylbenzene	0.892	0.799	10.4	85	0.00	17.29
117	M	1,2-dibromo-3-chloropropa	0.301	0.240	20.3#	77	0.00	18.08
118		1,3,5-trichlorobenzene	0.744	0.732	1.6	94	0.00	18.30
119		2-ethylhexyl acrylate		----------NA----------				
120	M	1,2,4-trichlorobenzene	0.609	0.578	5.1	89	0.00	18.90
121	M	hexachlorobutadiene	0.304	0.294	3.3	88	0.00	19.03
122	M	naphthalene	1.598	1.400	12.4	83	0.00	19.15
123	M	1,2,3-trichlorobenzene	0.537	0.496	7.6	87	0.00	19.38
124	m	hexachloroethane	0.432	0.366	15.3	82	0.00	17.66
125		2-methylnaphthalene	0.402	0.505	-25.6#	117	0.00	20.25
126		pentafluorobenzene(a)	1.000	1.000	0.0	110	0.00	11.11
127		freon 142B		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4D109993.D M4D4892.M Thu Aug 19 17:34:09 2021

Run Sequence Report

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Run ID: V1C7827	**Method:** SW846 8260D	**Instrument ID:** GCMS1C

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V1C7827-BFB	1C179464.D	07/15/21 19:04	n/a	BFB Tune
V1C7827-IC7827	1C179465.D	07/15/21 19:34	n/a	Initial cal 0.2
V1C7827-IC7827	1C179466.D	07/15/21 20:01	n/a	Initial cal 0.5
V1C7827-IC7827	1C179467.D	07/15/21 20:28	n/a	Initial cal 1
V1C7827-IC7827	1C179468.D	07/15/21 20:56	n/a	Initial cal 2
V1C7827-IC7827	1C179469.D	07/15/21 21:23	n/a	Initial cal 4
V1C7827-IC7827	1C179470.D	07/15/21 21:50	n/a	Initial cal 8
V1C7827-IC7827	1C179471.D	07/15/21 22:17	n/a	Initial cal 20
V1C7827-ICC7827	1C179472.D	07/15/21 22:44	n/a	Initial cal 50
V1C7827-IC7827	1C179473.D	07/15/21 23:11	n/a	Initial cal 100
V1C7827-IC7827	1C179474.D	07/15/21 23:38	n/a	Initial cal 200
V1C7827-ICV7827	1C179477.D	07/16/21 01:00	n/a	Initial cal verification 50
V1C7827-ICV7827	1C179478.D	07/16/21 01:27	n/a	Initial cal verification 50
V1C7827-BFB2	1C179480.D	07/16/21 11:04	n/a	BFB Tune
V1C7827-ICV7827	1C179481.D	07/16/21 11:34	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Run ID: V1C7855	**Method:** SW846 8260D	**Instrument ID:** GCMS1C

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V1C7855-BFB	1C180226.D	08/18/21 10:17	n/a	BFB Tune
V1C7855-CC7827	1C180226.D	08/18/21 10:17	n/a	Continuing cal 50
V1C7855-BS	1C180228.D	08/18/21 11:19	n/a	Blank Spike
V1C7855-MB	1C180230.D	08/18/21 12:27	n/a	Method Blank
ZZZZZZ	1C180231.D	08/18/21 12:55	n/a	(unrelated sample)
JD29908-2	1C180232.D	08/18/21 13:22	n/a	(used for QC only; not part of job JD29923)
JD29908-4	1C180233.D	08/18/21 13:49	n/a	(used for QC only; not part of job JD29923)
ZZZZZZ	1C180234.D	08/18/21 14:17	n/a	(unrelated sample)
ZZZZZZ	1C180235.D	08/18/21 14:44	n/a	(unrelated sample)
ZZZZZZ	1C180236.D	08/18/21 15:12	n/a	(unrelated sample)
JD29908-2MS	1C180237.D	08/18/21 15:39	n/a	Matrix Spike
JD29908-4DUP	1C180238.D	08/18/21 16:07	n/a	Duplicate
ZZZZZZ	1C180239.D	08/18/21 16:35	n/a	(unrelated sample)
ZZZZZZ	1C180240.D	08/18/21 17:02	n/a	(unrelated sample)
ZZZZZZ	1C180241.D	08/18/21 17:30	n/a	(unrelated sample)
ZZZZZZ	1C180242.D	08/18/21 17:57	n/a	(unrelated sample)
ZZZZZZ	1C180243.D	08/18/21 18:24	n/a	(unrelated sample)
ZZZZZZ	1C180245.D	08/18/21 19:19	n/a	(unrelated sample)
JD29923-1	1C180246.D	08/18/21 19:46	n/a	SB-1 (6-6.5)
JD29923-2	1C180247.D	08/18/21 20:13	n/a	SB-2 (4.5-5.0)
JD29923-3	1C180248.D	08/18/21 20:41	n/a	SB-3 (6-6.5)
JD29923-4	1C180249.D	08/18/21 21:08	n/a	SB-5 (6-6.5)
JD29923-5	1C180250.D	08/18/21 21:35	n/a	SB-6 (9.5-10.0)
JD29923-6	1C180251.D	08/18/21 22:02	n/a	SB-8 (9.5-10.0)

Run Sequence Report

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Run ID: V1C7856 **Method:** SW846 8260D **Instrument ID:** GCMS1C

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V1C7856-BFB	1C180256.D	08/19/21 10:20	n/a	BFB Tune
V1C7856-CC7827	1C180256.D	08/19/21 10:20	n/a	Continuing cal 50
V1C7856-BS	1C180257.D	08/19/21 10:55	n/a	Blank Spike
ZZZZZZ	1C180259A.D	08/19/21 12:00	n/a	(unrelated sample)
V1C7856-MB	1C180259.D	08/19/21 12:00	n/a	Method Blank
ZZZZZZ	1C180260.D	08/19/21 12:27	n/a	(unrelated sample)
JD29923-7	1C180261.D	08/19/21 12:55	n/a	SB-9 (7.5-8.0)
JD30019-1	1C180263.D	08/19/21 13:49	n/a	(used for QC only; not part of job JD29923)
JD30019-2	1C180264.D	08/19/21 14:17	n/a	(used for QC only; not part of job JD29923)
ZZZZZZ	1C180266.D	08/19/21 15:12	n/a	(unrelated sample)
JD30019-1MS	1C180267.D	08/19/21 15:40	n/a	Matrix Spike
JD30019-2DUP	1C180268.D	08/19/21 16:07	n/a	Duplicate
ZZZZZZ	1C180269.D	08/19/21 16:35	n/a	(unrelated sample)
ZZZZZZ	1C180270.D	08/19/21 17:03	n/a	(unrelated sample)
ZZZZZZ	1C180271.D	08/19/21 17:30	n/a	(unrelated sample)
ZZZZZZ	1C180272.D	08/19/21 17:58	n/a	(unrelated sample)
ZZZZZZ	1C180273.D	08/19/21 18:25	n/a	(unrelated sample)
ZZZZZZ	1C180274.D	08/19/21 18:53	n/a	(unrelated sample)
ZZZZZZ	1C180275.D	08/19/21 19:21	n/a	(unrelated sample)
ZZZZZZ	1C180276.D	08/19/21 19:48	n/a	(unrelated sample)
ZZZZZZ	1C180277.D	08/19/21 20:16	n/a	(unrelated sample)
ZZZZZZ	1C180278.D	08/19/21 20:44	n/a	(unrelated sample)
ZZZZZZ	1C180279.D	08/19/21 21:12	n/a	(unrelated sample)
ZZZZZZ	1C180280.D	08/19/21 21:39	n/a	(unrelated sample)

Run Sequence Report

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Run ID: V3C7415	**Method:** SW846 8260D	**Instrument ID:** GCMS3C

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V3C7415-BFB	3C167223.D	06/16/21 16:55	n/a	BFB Tune
V3C7415-IC7415	3C167224.D	06/16/21 17:21	n/a	Initial cal 0.2
V3C7415-IC7415	3C167225.D	06/16/21 17:46	n/a	Initial cal 0.5
V3C7415-IC7415	3C167226.D	06/16/21 18:12	n/a	Initial cal 1
V3C7415-IC7415	3C167227.D	06/16/21 18:37	n/a	Initial cal 2
V3C7415-IC7415	3C167228.D	06/16/21 19:02	n/a	Initial cal 4
V3C7415-IC7415	3C167229.D	06/16/21 19:27	n/a	Initial cal 8
V3C7415-IC7415	3C167230.D	06/16/21 19:52	n/a	Initial cal 20
V3C7415-ICC7415	3C167231.D	06/16/21 20:18	n/a	Initial cal 50
V3C7415-IC7415	3C167232.D	06/16/21 20:43	n/a	Initial cal 100
V3C7415-IC7415	3C167233.D	06/16/21 21:08	n/a	Initial cal 200
V3C7415-ICV7415	3C167236.D	06/16/21 22:23	n/a	Initial cal verification 50
V3C7415-ICV7415	3C167237.D	06/16/21 22:49	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Run ID: V3C7462 **Method:** SW846 8260D **Instrument ID:** GCMS3C

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V3C7462-BFB	3C168620.D	08/19/21 11:03	n/a	BFB Tune
V3C7462-CC7415	3C168620.D	08/19/21 11:03	n/a	Continuing cal 50
V3C7462-BS	3C168622.D	08/19/21 11:59	n/a	Blank Spike
V3C7462-MB	3C168624.D	08/19/21 12:54	n/a	Method Blank
JD30038-1	3C168625.D	08/19/21 13:20	n/a	(used for QC only; not part of job JD29923)
JD30038-2	3C168626.D	08/19/21 13:45	n/a	(used for QC only; not part of job JD29923)
ZZZZZZ	3C168627.D	08/19/21 14:11	n/a	(unrelated sample)
ZZZZZZ	3C168628.D	08/19/21 14:37	n/a	(unrelated sample)
ZZZZZZ	3C168629.D	08/19/21 15:02	n/a	(unrelated sample)
JD30038-1MS	3C168630.D	08/19/21 15:28	n/a	Matrix Spike
JD30038-2DUP	3C168632.D	08/19/21 16:19	n/a	Duplicate
JD29923-8	3C168633.D	08/19/21 16:45	n/a	SB-10 (7.5-8.0)
ZZZZZZ	3C168634.D	08/19/21 17:11	n/a	(unrelated sample)
ZZZZZZ	3C168635.D	08/19/21 17:37	n/a	(unrelated sample)
ZZZZZZ	3C168636.D	08/19/21 18:03	n/a	(unrelated sample)
ZZZZZZ	3C168637.D	08/19/21 18:29	n/a	(unrelated sample)
ZZZZZZ	3C168638.D	08/19/21 18:54	n/a	(unrelated sample)
ZZZZZZ	3C168639.D	08/19/21 19:20	n/a	(unrelated sample)
ZZZZZZ	3C168640.D	08/19/21 19:46	n/a	(unrelated sample)
ZZZZZZ	3C168641.D	08/19/21 20:12	n/a	(unrelated sample)
ZZZZZZ	3C168642.D	08/19/21 20:38	n/a	(unrelated sample)
ZZZZZZ	3C168643.D	08/19/21 21:03	n/a	(unrelated sample)
ZZZZZZ	3C168644.D	08/19/21 21:29	n/a	(unrelated sample)
ZZZZZZ	3C168645.D	08/19/21 21:55	n/a	(unrelated sample)
ZZZZZZ	3C168646.D	08/19/21 22:21	n/a	(unrelated sample)
ZZZZZZ	3C168647.D	08/19/21 22:46	n/a	(unrelated sample)

Run Sequence Report

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Run ID: V4D4892 **Method:** SW846 8260D **Instrument ID:** GCMS4D

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V4D4892-BFB	4D109986.D	05/19/21 20:05	n/a	BFB Tune
V4D4892-IC4892	4D109987.D	05/19/21 20:33	n/a	Initial cal 0.2
V4D4892-IC4892	4D109988.D	05/19/21 21:02	n/a	Initial cal 0.5
V4D4892-IC4892	4D109989.D	05/19/21 21:30	n/a	Initial cal 1
V4D4892-IC4892	4D109990.D	05/19/21 21:59	n/a	Initial cal 2
V4D4892-IC4892	4D109991.D	05/19/21 22:27	n/a	Initial cal 4
V4D4892-IC4892	4D109992.D	05/19/21 22:56	n/a	Initial cal 8
V4D4892-IC4892	4D109993.D	05/19/21 23:24	n/a	Initial cal 20
V4D4892-ICC4892	4D109994.D	05/19/21 23:52	n/a	Initial cal 50
V4D4892-IC4892	4D109995.D	05/20/21 00:21	n/a	Initial cal 100
V4D4892-IC4892	4D109996.D	05/20/21 00:49	n/a	Initial cal 200
V4D4892-ICV4892	4D109999.D	05/20/21 02:14	n/a	Initial cal verification 50
V4D4892-ICV4892	4D110000.D	05/20/21 02:43	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Run ID: V4D4985 **Method:** SW846 8260D **Instrument ID:** GCMS4D

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V4D4985-BFB	4D111912.D	08/19/21 10:18	n/a	BFB Tune
V4D4985-CC4892	4D111912.D	08/19/21 10:18	n/a	Continuing cal 20
V4D4985-BS	4D111914.D	08/19/21 11:27	n/a	Blank Spike
V4D4985-MB	4D111916.D	08/19/21 12:24	n/a	Method Blank
ZZZZZZ	4D111917.D	08/19/21 12:53	n/a	(unrelated sample)
ZZZZZZ	4D111918.D	08/19/21 13:22	n/a	(unrelated sample)
ZZZZZZ	4D111919.D	08/19/21 13:51	n/a	(unrelated sample)
JD29818-21	4D111920.D	08/19/21 14:20	n/a	(used for QC only; not part of job JD29923)
JD29818-24	4D111921.D	08/19/21 14:50	n/a	(used for QC only; not part of job JD29923)
ZZZZZZ	4D111922.D	08/19/21 15:19	n/a	(unrelated sample)
ZZZZZZ	4D111923.D	08/19/21 15:48	n/a	(unrelated sample)
JD29818-21MS	4D111924.D	08/19/21 16:17	n/a	Matrix Spike
ZZZZZZ	4D111925.D	08/19/21 16:46	n/a	(unrelated sample)
JD29818-24DUP	4D111926.D	08/19/21 17:15	n/a	Duplicate
JD29923-9	4D111927.D	08/19/21 17:44	n/a	TB
ZZZZZZ	4D111928.D	08/19/21 18:14	n/a	(unrelated sample)
ZZZZZZ	4D111929.D	08/19/21 18:43	n/a	(unrelated sample)
ZZZZZZ	4D111930.D	08/19/21 19:12	n/a	(unrelated sample)
ZZZZZZ	4D111931.D	08/19/21 19:41	n/a	(unrelated sample)
ZZZZZZ	4D111932.D	08/19/21 20:10	n/a	(unrelated sample)
ZZZZZZ	4D111934.D	08/19/21 21:08	n/a	(unrelated sample)
ZZZZZZ	4D111935.D	08/19/21 21:37	n/a	(unrelated sample)
ZZZZZZ	4D111936.D	08/19/21 22:06	n/a	(unrelated sample)

MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180246.d
Acq On : 18 Aug 2021 7:46 pm
Operator : PrashanS
Sample : JD29923-1 Inst : GCMS1C
Misc : MS53008,V1C7855,4.1,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 04:13:54 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

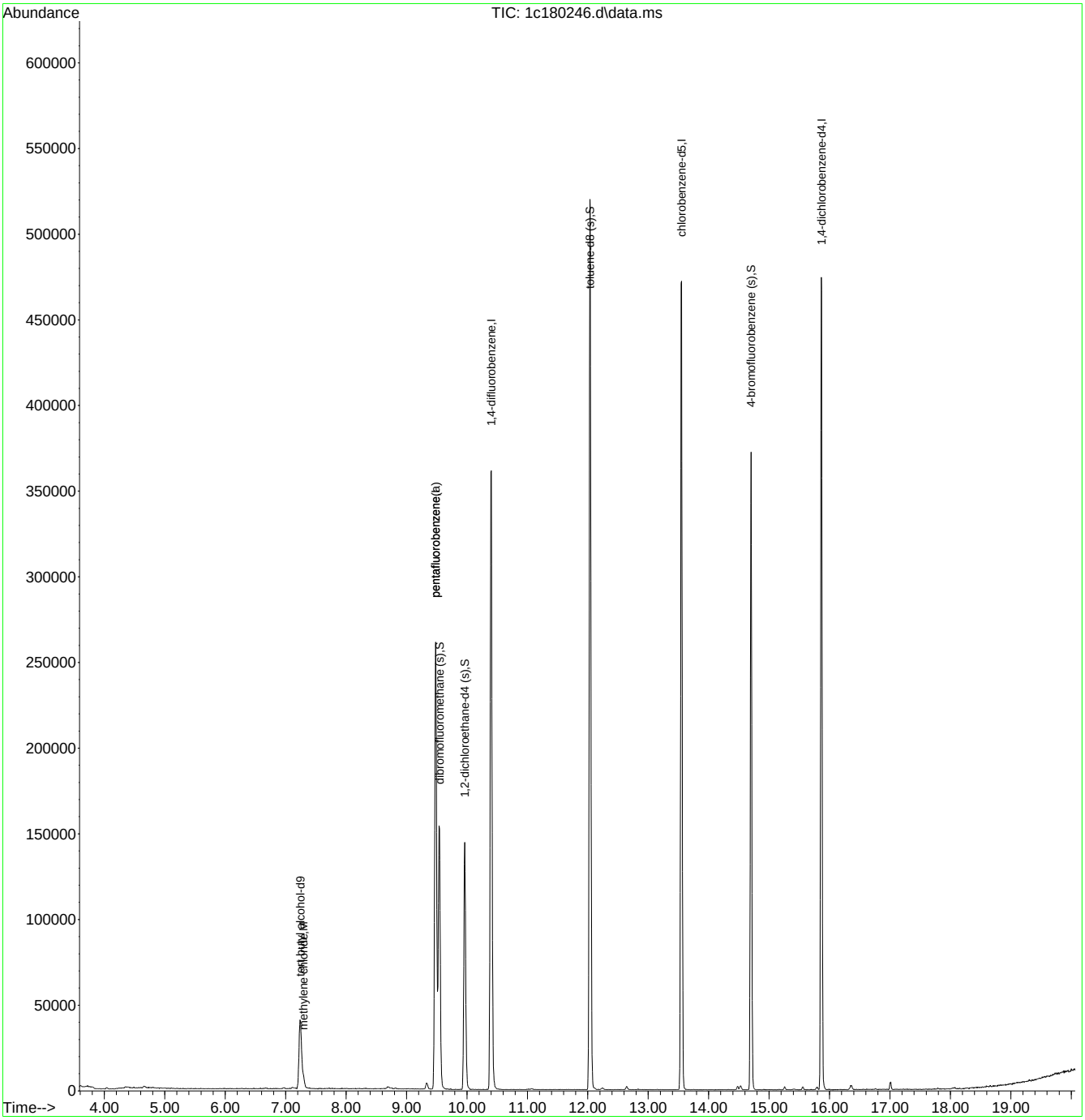
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.243	65	76027	500.00	ug/L	0.00
5) pentafluorobenzene	9.482	168	220995	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.402	114	336446	50.00	ug/L	0.00
73) chlorobenzene-d5	13.551	117	271379	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.868	152	129011	50.00	ug/L	0.00
125) pentafluorobenzene(a)	9.482	168	220995	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.545	113	108540	53.76	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 107.52%			
52) 1,2-dichloroethane-d4 (s)	9.963	65	108053	55.94	ug/L	0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 111.88%			
74) toluene-d8 (s)	12.034	98	371477	51.90	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 103.80%			
97) 4-bromofluorobenzene (s)	14.702	95	122744	48.85	ug/L	0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 97.70%			
Target Compounds						Qvalue
22) methylene chloride	7.296	84	1992	1.07	ug/L	99

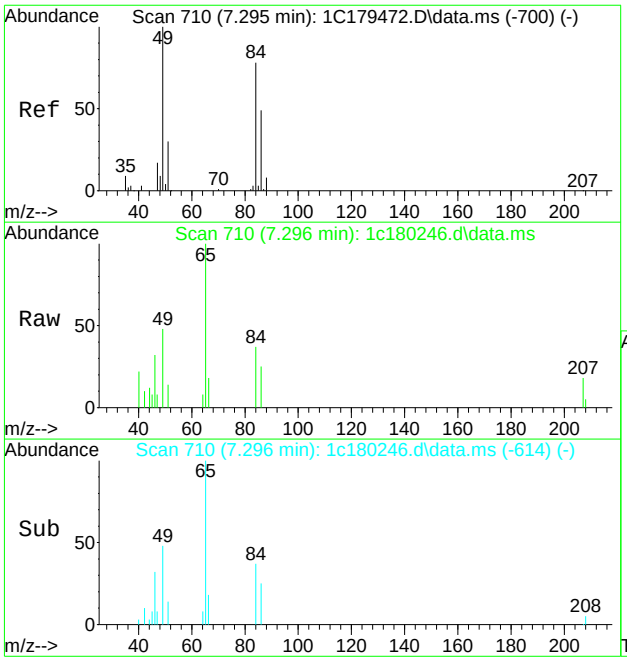
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180246.d
Acq On : 18 Aug 2021 7:46 pm
Operator : PrashanS
Sample : JD29923-1 Inst : GCMS1C
Misc : MS53008,V1C7855,4.1,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 04:13:54 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

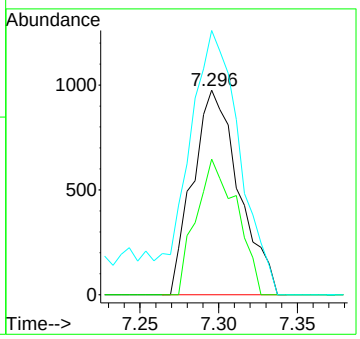




#22
methylene chloride
Concen: 1.07 ug/L
RT: 7.296 min Scan# 710
Delta R.T. 0.000 min
Lab File: 1c180246.d
Acq: 18 Aug 2021 7:46 pm

Tgt Ion: 84 Resp: 1992

Ion	Ratio	Lower	Upper
84	100		
86	66.3	32.9	92.9
49	129.2	99.1	159.1



LSC Area Percent Report

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180246.d
Acq On : 18 Aug 2021 7:46 pm
Operator : PrashanS
Sample : JD29923-1
Misc : MS53008,V1C7855,4.1,,,,1
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

Signal : TIC: 1c180246.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.603	3	4	11	rVB4	784	768	0.08%	0.014%
2	3.723	23	27	32	rVB3	858	1087	0.11%	0.020%
3	4.037	83	87	98	rVB4	865	1903	0.20%	0.035%
4	4.204	111	119	121	rBV2	356	604	0.06%	0.011%
5	4.246	121	127	128	rBV3	486	703	0.07%	0.013%
6	4.351	139	147	150	rBV4	984	1865	0.19%	0.035%
7	4.571	184	189	191	rBV3	566	594	0.06%	0.011%
8	4.670	200	208	213	rBV2	1051	2381	0.25%	0.044%
9	4.884	245	249	254	rVB2	535	992	0.10%	0.019%
10	4.916	254	255	262	rBV3	465	853	0.09%	0.016%
11	5.596	381	385	388	rBV3	374	551	0.06%	0.010%
12	5.993	453	461	463	rVB3	399	674	0.07%	0.013%
13	6.276	511	515	520	rVB2	433	586	0.06%	0.011%
14	6.474	547	553	557	rBV2	432	707	0.07%	0.013%
15	6.668	584	590	598	rVB3	619	1493	0.16%	0.028%
16	6.961	642	646	648	rBV4	643	777	0.08%	0.014%
17	6.982	648	650	658	rVB3	705	857	0.09%	0.016%
18	7.112	670	675	685	rBV3	807	2495	0.26%	0.047%
19	7.238	689	699	727	rBV2	40267	137416	14.27%	2.563%
20	7.510	748	751	756	rVB2	386	590	0.06%	0.011%
21	7.730	786	793	796	rBV4	460	715	0.07%	0.013%
22	8.331	904	908	911	rVB2	517	512	0.05%	0.010%
23	8.488	932	938	939	rBV3	369	541	0.06%	0.010%
24	8.514	939	943	947	rBV2	270	562	0.06%	0.010%
25	8.682	970	975	984	rBV2	1089	2830	0.29%	0.053%
26	8.818	996	1001	1005	rVB3	636	1080	0.11%	0.020%
27	9.330	1092	1099	1112	rVB4	3703	8437	0.88%	0.157%
28	9.482	1117	1128	1134	rVV	260947	592758	61.56%	11.056%
29	9.539	1134	1139	1161	rVB	153834	350388	36.39%	6.535%
30	9.963	1211	1220	1241	rBV	144389	298961	31.05%	5.576%
31	10.329	1285	1290	1293	rBV3	344	512	0.05%	0.010%
32	10.402	1293	1304	1323	rVV	361137	752935	78.19%	14.044%
33	11.773	1562	1566	1572	rBV2	256	563	0.06%	0.011%
34	12.034	1605	1616	1638	rBV	519741	962905	100.00%	17.960%
35	12.243	1646	1656	1663	rVB	1036	2255	0.23%	0.042%
36	12.646	1726	1733	1740	rBV	1846	3585	0.37%	0.067%
37	13.551	1895	1906	1920	rBV	471939	797547	82.83%	14.876%
38	14.477	2073	2083	2087	rBV5	2026	3559	0.37%	0.066%
39	14.529	2087	2093	2102	rVB6	2352	4865	0.51%	0.091%
40	14.702	2113	2126	2143	rVB	372248	595031	61.80%	11.099%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180246.d
Acq On : 18 Aug 2021 7:46 pm
Operator : PrashanS
Sample : JD29923-1
Misc : MS53008,V1C7855,4.1,,,,1
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

41	15.256	2224	2232	2238	rVB3	1807	2912	0.30%	0.054%
42	15.418	2255	2263	2268	rVB2	430	1116	0.12%	0.021%
43	15.559	2283	2290	2299	rVB5	1786	3164	0.33%	0.059%
44	15.795	2325	2335	2339	rBV3	1691	3060	0.32%	0.057%
45	15.863	2339	2348	2365	rVV	474229	770698	80.04%	14.375%
46	16.349	2430	2441	2451	rVB2	2644	6690	0.69%	0.125%
47	16.757	2514	2519	2527	rVB3	740	1496	0.16%	0.028%
48	17.008	2560	2567	2576	rBV2	4492	8143	0.85%	0.152%
49	17.594	2676	2679	2685	rVB3	380	699	0.07%	0.013%
50	17.704	2697	2700	2703	rBV3	410	516	0.05%	0.010%
51	17.793	2714	2717	2723	rVB2	834	1042	0.11%	0.019%
52	17.866	2727	2731	2733	rBV	401	507	0.05%	0.009%
53	18.049	2760	2766	2769	rVV4	866	1454	0.15%	0.027%
54	18.070	2769	2770	2775	rVB3	981	980	0.10%	0.018%
55	18.154	2784	2786	2790	rVB3	725	652	0.07%	0.012%
56	18.190	2790	2793	2797	rBV2	414	635	0.07%	0.012%
57	18.248	2800	2804	2805	rBV	645	666	0.07%	0.012%
58	18.321	2816	2818	2821	rBV2	706	915	0.10%	0.017%
59	18.357	2821	2825	2829	rVB3	687	1114	0.12%	0.021%
60	18.425	2836	2838	2841	rVB3	625	690	0.07%	0.013%
61	18.446	2841	2842	2847	rBV4	823	973	0.10%	0.018%
62	18.530	2855	2858	2862	rBV4	633	653	0.07%	0.012%
63	18.561	2863	2864	2868	rBV2	436	501	0.05%	0.009%
64	18.593	2869	2870	2872	rBV2	965	537	0.06%	0.010%
65	18.619	2872	2875	2878	rVB4	561	622	0.06%	0.012%
66	18.661	2878	2883	2887	rBV5	1066	1210	0.13%	0.023%
67	18.708	2887	2892	2895	rBV4	1014	1038	0.11%	0.019%
68	18.734	2895	2897	2902	rBV4	637	680	0.07%	0.013%
69	18.786	2906	2907	2912	rBV3	870	1132	0.12%	0.021%
70	18.818	2912	2913	2916	rBV3	826	668	0.07%	0.012%
71	18.839	2916	2917	2920	rBV2	627	542	0.06%	0.010%
72	18.964	2939	2941	2943	rBV	741	587	0.06%	0.011%
73	19.032	2953	2954	2956	rBV3	941	610	0.06%	0.011%
74	19.205	2984	2987	2990	rBV4	901	1071	0.11%	0.020%
75	19.304	3003	3006	3008	rBV3	1211	926	0.10%	0.017%
76	19.356	3012	3016	3018	rBV5	1070	1412	0.15%	0.026%
77	19.597	3059	3062	3065	rBV3	1050	1378	0.14%	0.026%
78	20.000	3137	3139	3141	rBV3	1683	1182	0.12%	0.022%

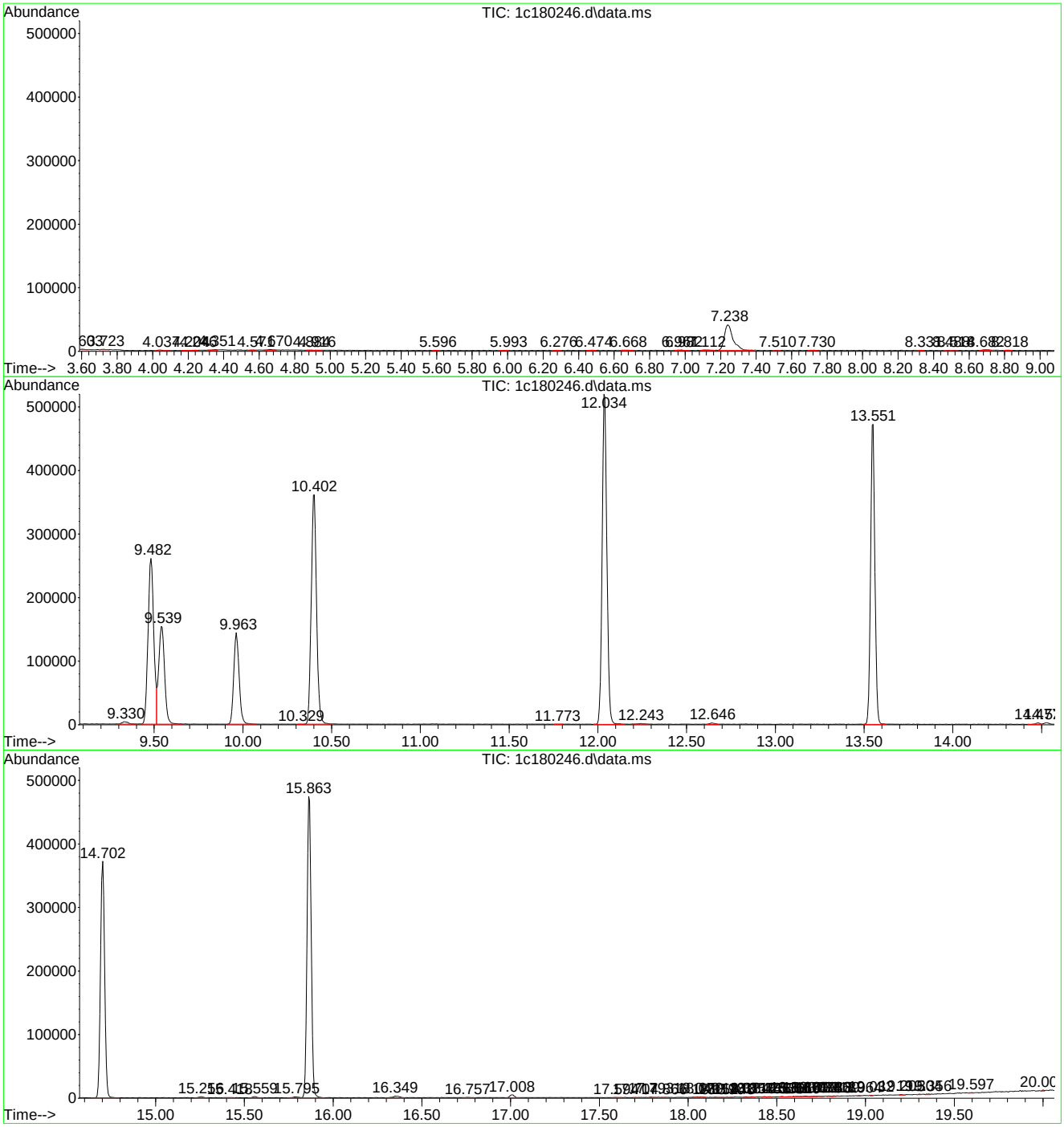
Sum of corrected areas: 5361308

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180246.d
Acq On : 18 Aug 2021 7:46 pm
Operator : PrashanS
Sample : JD29923-1
Misc : MS53008,V1C7855,4.1,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p



M1CS7827.M Thu Aug 19 04:14:04 2021 Page: 3

SGS 218 of 1685
JD29923

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180246.d
Acq On : 18 Aug 2021 7:46 pm
Operator : PrashanS
Sample : JD29923-1
Misc : MS53008,V1C7855,4.1,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

No Library Search Compounds Detected

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180247.d
Acq On : 18 Aug 2021 8:13 pm
Operator : PrashanS
Sample : JD29923-2 Inst : GCMS1C
Misc : MS53008,V1C7855,4.3,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 04:14:41 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

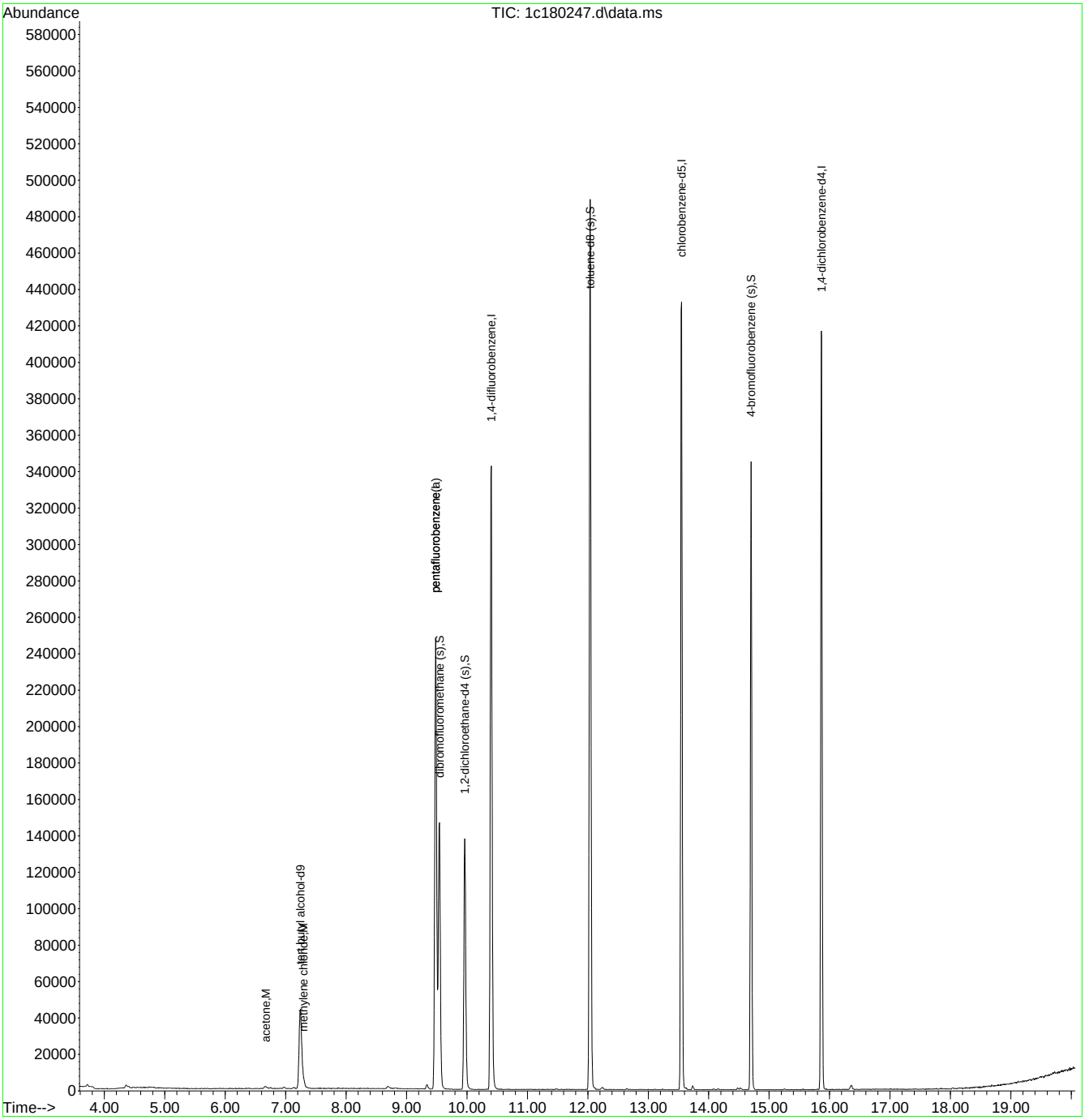
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.243	65	81551	500.00	ug/L	0.00
5) pentafluorobenzene	9.482	168	207932	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.402	114	319430	50.00	ug/L	0.00
73) chlorobenzene-d5	13.551	117	252686	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.868	152	113508	50.00	ug/L	0.00
125) pentafluorobenzene(a)	9.482	168	207932	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.544	113	104050	54.77	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 109.54%			
52) 1,2-dichloroethane-d4 (s)	9.963	65	105958	57.78	ug/L	0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 115.56%			
74) toluene-d8 (s)	12.039	98	349082	52.38	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 104.76%			
97) 4-bromofluorobenzene (s)	14.701	95	113936	51.54	ug/L	0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 103.08%			
Target Compounds						Qvalue
18) acetone	6.668	43	2648	5.32	ug/L	84
22) methylene chloride	7.295	84	1282	0.73	ug/L #	77

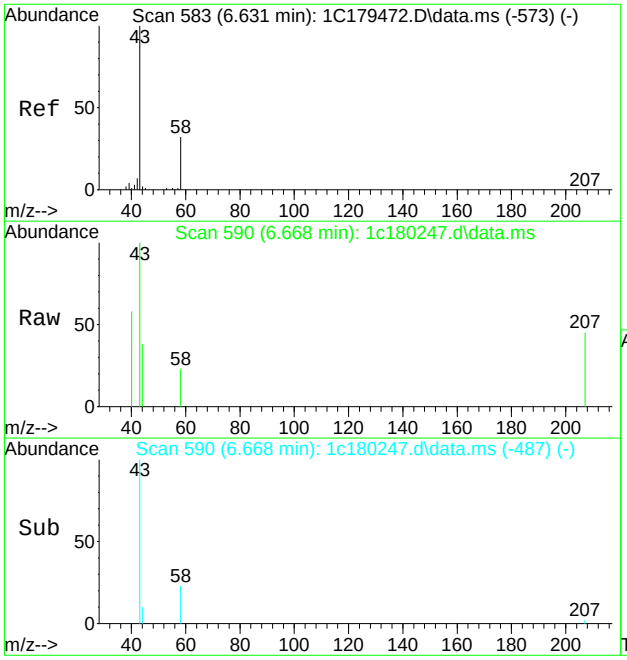
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180247.d
Acq On : 18 Aug 2021 8:13 pm
Operator : PrashanS
Sample : JD29923-2 Inst : GCMS1C
Misc : MS53008,V1C7855,4.3,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 04:14:41 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

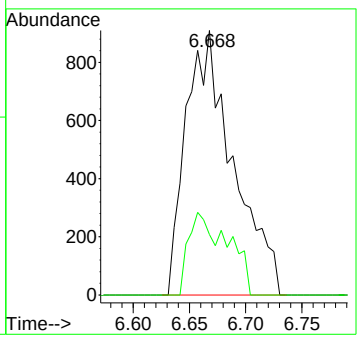


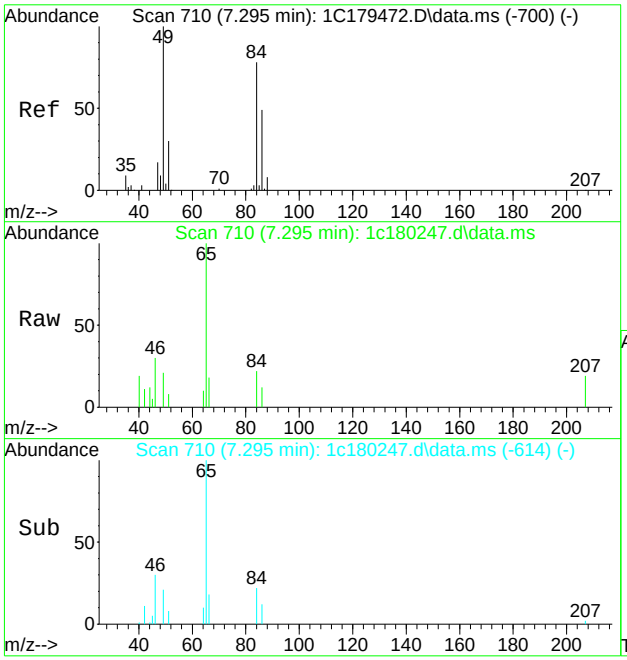


#18
acetone
Concen: 5.32 ug/L
RT: 6.668 min Scan# 590
Delta R.T. 0.037 min
Lab File: 1c180247.d
Acq: 18 Aug 2021 8:13 pm

Tgt Ion: 43 Resp: 2648

Ion	Ratio	Lower	Upper
43	100		
58	22.9	2.0	62.0

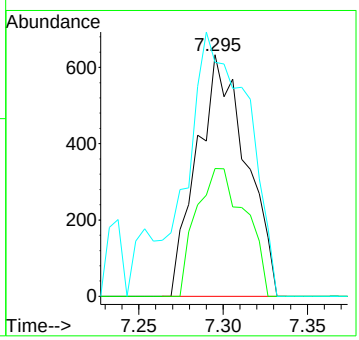




#22
methylene chloride
Concen: 0.73 ug/L
RT: 7.295 min Scan# 710
Delta R.T. -0.000 min
Lab File: 1c180247.d
Acq: 18 Aug 2021 8:13 pm

Tgt Ion: 84 Resp: 1282

Ion	Ratio	Lower	Upper
84	100		
86	52.9	32.9	92.9
49	96.8	99.1	159.1#



LSC Area Percent Report

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180247.d
Acq On : 18 Aug 2021 8:13 pm
Operator : PrashanS
Sample : JD29923-2
Misc : MS53008,V1C7855,4.3,,,,1
ALS Vial : 22 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

Signal : TIC: 1c180247.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.718	22	26	32	rVB3	1324	2010	0.22%	0.040%
2	3.869	54	55	60	rVB3	440	524	0.06%	0.010%
3	4.047	82	89	92	rBV2	394	526	0.06%	0.011%
4	4.121	98	103	108	rBV2	395	766	0.08%	0.015%
5	4.361	142	149	155	rBV4	1827	4684	0.52%	0.094%
6	4.487	169	173	179	rBV3	442	780	0.09%	0.016%
7	4.549	179	185	190	rBV2	379	552	0.06%	0.011%
8	4.743	219	222	227	rBV2	654	780	0.09%	0.016%
9	4.884	244	249	253	rBV3	434	702	0.08%	0.014%
10	5.376	342	343	349	rBV3	421	517	0.06%	0.010%
11	5.522	367	371	377	rBV2	338	511	0.06%	0.010%
12	6.657	580	588	598	rBV4	1076	3249	0.36%	0.065%
13	6.746	602	605	610	rVB3	639	845	0.09%	0.017%
14	6.971	642	648	654	rBV2	867	1794	0.20%	0.036%
15	7.138	672	680	685	rBV2	904	2008	0.22%	0.040%
16	7.243	685	700	724	rVV2	43772	145099	16.04%	2.899%
17	8.692	970	977	986	rBV2	1354	3023	0.33%	0.060%
18	8.822	998	1002	1007	rVB3	485	997	0.11%	0.020%
19	8.917	1015	1020	1028	rBV3	290	666	0.07%	0.013%
20	9.340	1093	1101	1111	rBV4	2548	5711	0.63%	0.114%
21	9.482	1116	1128	1134	rVV	247767	557021	61.57%	11.131%
22	9.544	1134	1140	1159	rVB	146435	337300	37.28%	6.740%
23	9.738	1176	1177	1184	rVB2	452	639	0.07%	0.013%
24	9.963	1210	1220	1242	rBV	137672	293094	32.40%	5.857%
25	10.329	1285	1290	1294	rBV3	349	555	0.06%	0.011%
26	10.402	1294	1304	1324	rVV	342467	714506	78.98%	14.277%
27	10.517	1324	1326	1330	rVB2	435	525	0.06%	0.010%
28	11.474	1505	1509	1516	rBV3	446	759	0.08%	0.015%
29	12.039	1607	1617	1637	rVB	488849	904707	100.00%	18.078%
30	12.243	1646	1656	1666	rVB4	1298	3356	0.37%	0.067%
31	12.651	1729	1734	1738	rBV2	649	1031	0.11%	0.021%
32	13.237	1841	1846	1852	rVB2	433	621	0.07%	0.012%
33	13.409	1872	1879	1884	rVB2	223	628	0.07%	0.013%
34	13.467	1884	1890	1896	rBV2	309	708	0.08%	0.014%
35	13.551	1896	1906	1916	rVV	432630	743577	82.19%	14.858%
36	13.624	1917	1920	1928	rVB3	1125	1652	0.18%	0.033%
37	13.734	1935	1941	1950	rBV3	2176	3516	0.39%	0.070%
38	14.084	2003	2008	2012	rVB2	487	825	0.09%	0.016%
39	14.152	2018	2021	2028	rVB3	685	1120	0.12%	0.022%
40	14.476	2079	2083	2089	rBV2	1206	1914	0.21%	0.038%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180247.d
Acq On : 18 Aug 2021 8:13 pm
Operator : PrashanS
Sample : JD29923-2
Misc : MS53008,V1C7855,4.3,,,,1
ALS Vial : 22 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

41	14.529	2089	2093	2101	rVB3	1005	1869	0.21%	0.037%
42	14.701	2112	2126	2141	rVV	344975	550892	60.89%	11.008%
43	15.250	2226	2231	2236	rBV3	519	911	0.10%	0.018%
44	15.564	2287	2291	2293	rBV2	496	550	0.06%	0.011%
45	15.862	2339	2348	2364	rVB	416610	677244	74.86%	13.533%
46	16.255	2422	2423	2428	rVB2	407	500	0.06%	0.010%
47	16.297	2428	2431	2434	rBV3	407	553	0.06%	0.011%
48	16.359	2434	2443	2453	rVB	2510	6406	0.71%	0.128%
49	16.532	2471	2476	2480	rBV2	283	588	0.06%	0.012%
50	16.762	2518	2520	2527	rBV3	299	612	0.07%	0.012%
51	17.008	2563	2567	2572	rBV2	515	536	0.06%	0.011%
52	17.740	2701	2707	2710	rBV2	500	666	0.07%	0.013%
53	17.981	2750	2753	2759	rVB2	415	687	0.08%	0.014%
54	18.038	2759	2764	2769	rBV3	901	1779	0.20%	0.036%
55	18.070	2769	2770	2776	rVB3	570	823	0.09%	0.016%
56	18.122	2776	2780	2783	rBV2	644	951	0.11%	0.019%
57	18.216	2796	2798	2800	rBV	557	563	0.06%	0.011%
58	18.263	2804	2807	2809	rVB3	627	585	0.06%	0.012%
59	18.383	2827	2830	2834	rBV3	534	603	0.07%	0.012%
60	18.410	2834	2835	2841	rBV4	579	881	0.10%	0.018%
61	18.451	2841	2843	2846	rVB3	633	524	0.06%	0.010%
62	18.483	2846	2849	2853	rVB4	957	979	0.11%	0.020%
63	18.530	2853	2858	2859	rBV3	819	1094	0.12%	0.022%
64	18.551	2861	2862	2866	rBV3	934	888	0.10%	0.018%
65	18.593	2866	2870	2872	rBV2	751	977	0.11%	0.020%
66	18.645	2878	2880	2884	rVB4	720	744	0.08%	0.015%
67	18.682	2884	2887	2893	rBV5	1229	1656	0.18%	0.033%
68	18.844	2916	2918	2921	rBV4	919	827	0.09%	0.017%
69	18.933	2934	2935	2940	rBV2	403	553	0.06%	0.011%
70	19.001	2943	2948	2949	rVV5	575	708	0.08%	0.014%
71	19.194	2984	2985	2989	rBV4	990	967	0.11%	0.019%
72	19.361	3014	3017	3018	rBV3	1032	1106	0.12%	0.022%
73	19.952	3128	3130	3133	rBV4	1309	1429	0.16%	0.029%

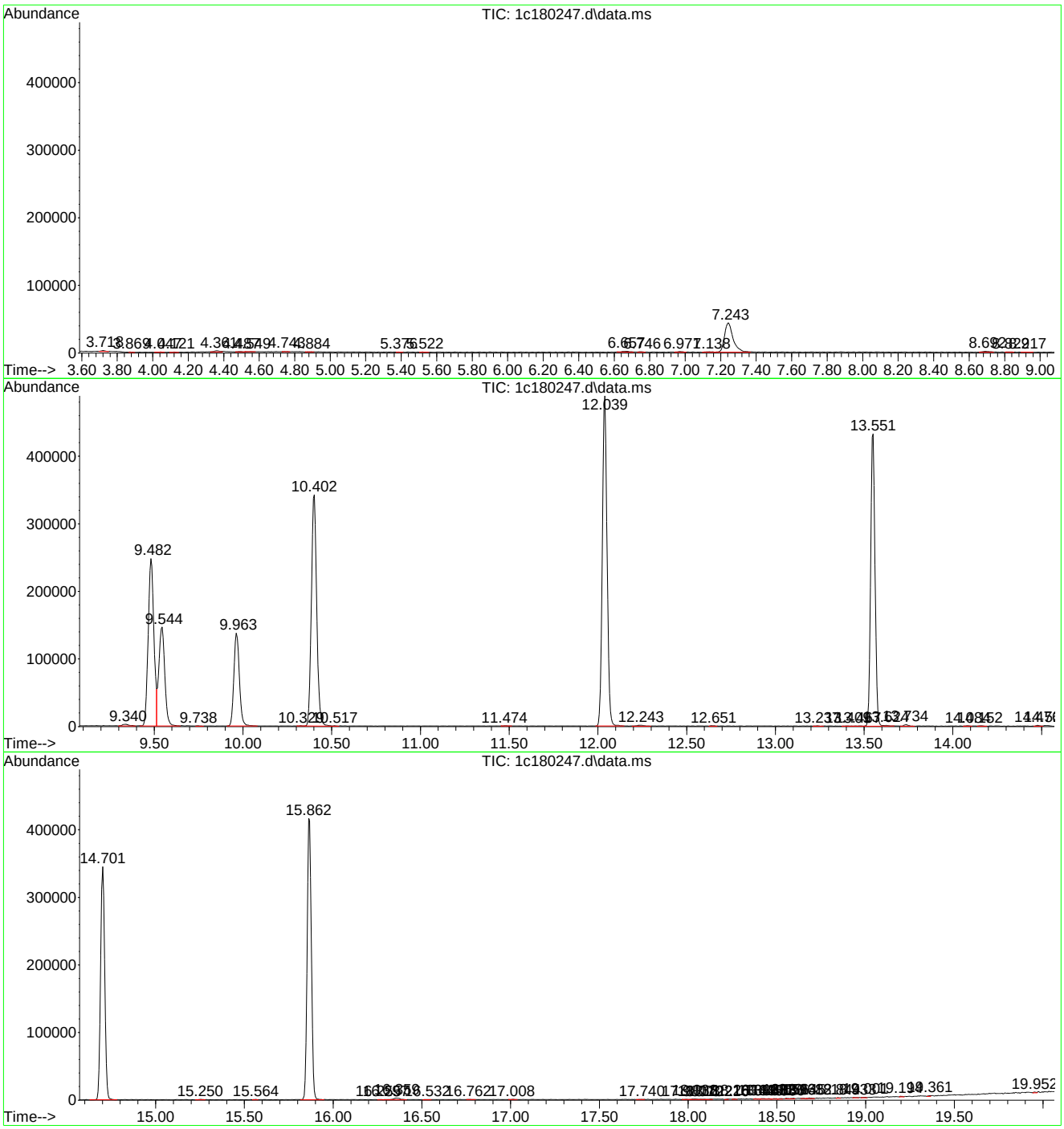
Sum of corrected areas: 5004449

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180247.d
Acq On : 18 Aug 2021 8:13 pm
Operator : PrashanS
Sample : JD29923-2
Misc : MS53008,V1C7855,4.3,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p



Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180247.d
Acq On : 18 Aug 2021 8:13 pm
Operator : PrashanS
Sample : JD29923-2
Misc : MS53008,V1C7855,4.3,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180248.d
Acq On : 18 Aug 2021 8:41 pm
Operator : PrashanS
Sample : JD29923-3 Inst : GCMS1C
Misc : MS53008,V1C7855,6.0,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 04:15:30 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

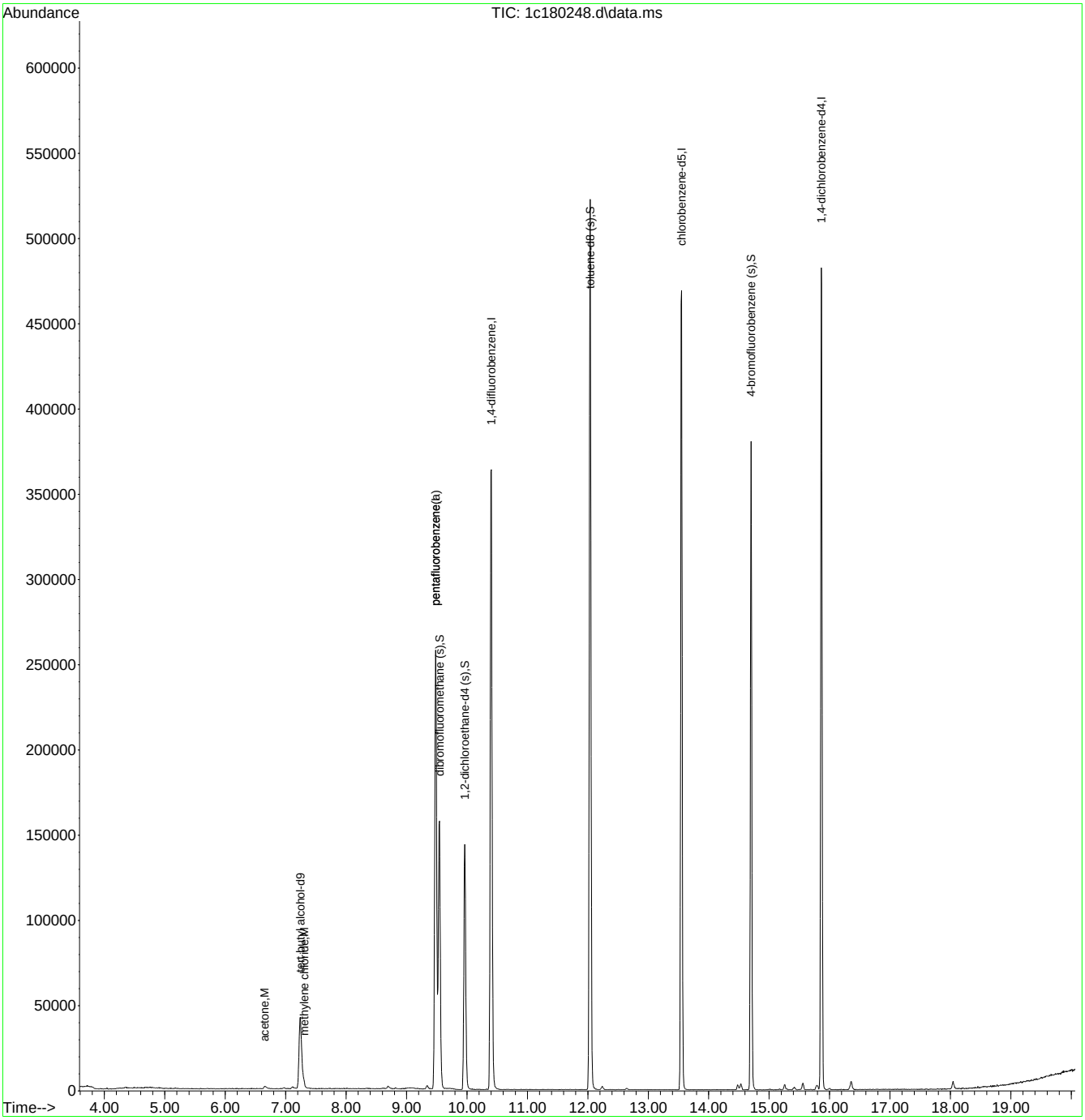
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.243	65	78643	500.00	ug/L	0.00
5) pentafluorobenzene	9.482	168	219497	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.402	114	338181	50.00	ug/L	0.00
73) chlorobenzene-d5	13.551	117	272063	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.862	152	128871	50.00	ug/L	0.00
125) pentafluorobenzene(a)	9.482	168	219497	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.544	113	108371	54.04	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 108.08%			
52) 1,2-dichloroethane-d4 (s)	9.963	65	109993	56.65	ug/L	0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 113.30%			
74) toluene-d8 (s)	12.039	98	372861	51.96	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 103.92%			
97) 4-bromofluorobenzene (s)	14.701	95	124696	49.68	ug/L	0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 99.36%			
Target Compounds						Qvalue
18) acetone	6.652	43	3509	6.67	ug/L	97
22) methylene chloride	7.306	84	1194	0.65	ug/L	84

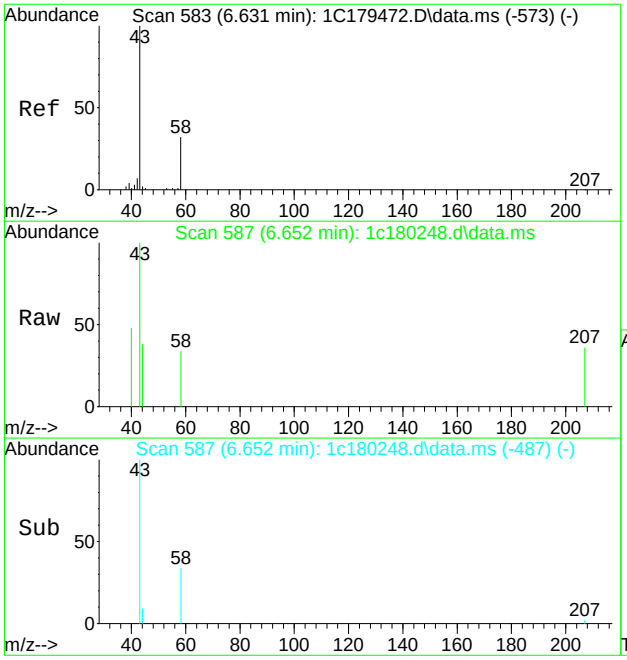
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180248.d
Acq On : 18 Aug 2021 8:41 pm
Operator : PrashanS
Sample : JD29923-3 Inst : GCMS1C
Misc : MS53008,V1C7855,6.0,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 04:15:30 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

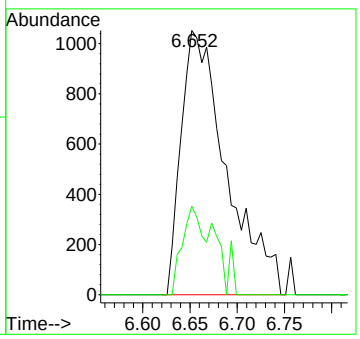


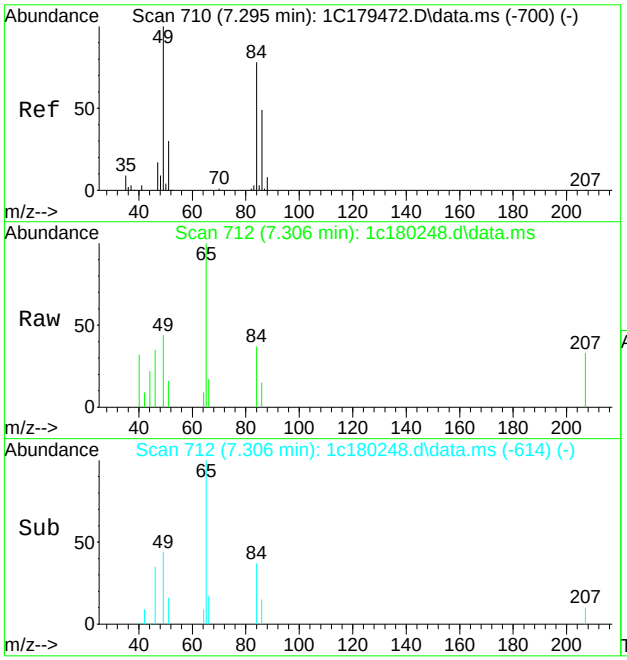


#18
acetone
Concen: 6.67 ug/L
RT: 6.652 min Scan# 587
Delta R.T. 0.021 min
Lab File: 1c180248.d
Acq: 18 Aug 2021 8:41 pm

Tgt Ion: 43 Resp: 3509

Ion	Ratio	Lower	Upper
43	100		
58	33.5	2.0	62.0

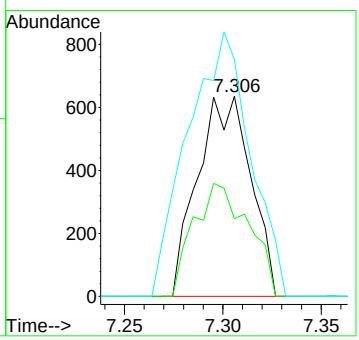




#22
methylene chloride
Concen: 0.65 ug/L
RT: 7.306 min Scan# 712
Delta R.T. 0.010 min
Lab File: 1c180248.d
Acq: 18 Aug 2021 8:41 pm

Tgt Ion: 84 Resp: 1194

Ion	Ratio	Lower	Upper
84	100		
86	38.8	32.9	92.9
49	118.4	99.1	159.1



LSC Area Percent Report

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180248.d
Acq On : 18 Aug 2021 8:41 pm
Operator : PrashanS
Sample : JD29923-3
Misc : MS53008,V1C7855,6.0,,,,1
ALS Vial : 23 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

Signal : TIC: 1c180248.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.938	63	68	69	rBV3	407	514	0.05%	0.009%
2	4.042	85	88	93	rVB2	703	600	0.06%	0.011%
3	4.204	116	119	125	rBV	375	833	0.09%	0.015%
4	4.304	136	138	143	rBV2	444	536	0.06%	0.010%
5	4.346	143	146	150	rBV4	651	1009	0.10%	0.019%
6	4.492	169	174	177	rBV2	704	823	0.09%	0.015%
7	4.670	207	208	211	rBV2	665	574	0.06%	0.011%
8	4.905	250	253	255	rVB	605	547	0.06%	0.010%
9	4.921	255	256	264	rBV3	517	663	0.07%	0.012%
10	5.596	380	385	387	rBV2	549	534	0.06%	0.010%
11	5.700	404	405	413	rVB2	292	540	0.06%	0.010%
12	6.192	497	499	506	rVB	485	639	0.07%	0.012%
13	6.652	582	587	606	rVB4	1508	5058	0.52%	0.093%
14	6.924	630	639	640	rBV2	397	609	0.06%	0.011%
15	6.976	642	649	657	rVB4	709	1610	0.17%	0.030%
16	7.118	669	676	686	rBV2	1262	3355	0.35%	0.062%
17	7.243	686	700	725	rVV	41867	137330	14.21%	2.537%
18	8.608	955	961	964	rBV3	572	920	0.10%	0.017%
19	8.692	970	977	991	rVB2	1790	5211	0.54%	0.096%
20	8.812	995	1000	1008	rVV4	756	1110	0.11%	0.021%
21	8.985	1032	1033	1036	rBV	663	534	0.06%	0.010%
22	9.121	1056	1059	1065	rVB4	528	811	0.08%	0.015%
23	9.340	1095	1101	1109	rBV5	2137	4533	0.47%	0.084%
24	9.482	1117	1128	1134	rBV	257436	587697	60.81%	10.857%
25	9.544	1134	1140	1156	rVB	157084	353280	36.56%	6.527%
26	9.795	1186	1188	1192	rVB2	435	526	0.05%	0.010%
27	9.963	1209	1220	1241	rBV	143910	303908	31.45%	5.614%
28	10.402	1292	1304	1335	rVB	363835	759755	78.62%	14.036%
29	12.039	1606	1617	1634	rBV	522396	966424	100.00%	17.854%
30	12.238	1645	1655	1666	rVB2	2045	4422	0.46%	0.082%
31	12.641	1726	1732	1741	rBV4	852	1894	0.20%	0.035%
32	13.551	1896	1906	1927	rVB	469045	802542	83.04%	14.826%
33	14.476	2078	2083	2088	rBV2	2936	5089	0.53%	0.094%
34	14.534	2088	2094	2103	rVB5	3543	6864	0.71%	0.127%
35	14.701	2117	2126	2146	rBV	380459	606309	62.74%	11.201%
36	15.015	2182	2186	2190	rVB3	591	658	0.07%	0.012%
37	15.167	2213	2215	2221	rBV3	601	802	0.08%	0.015%
38	15.256	2224	2232	2243	rVB4	3120	6523	0.67%	0.121%
39	15.418	2253	2263	2273	rVB	1643	3595	0.37%	0.066%
40	15.559	2282	2290	2298	rVB2	3947	7108	0.74%	0.131%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180248.d
Acq On : 18 Aug 2021 8:41 pm
Operator : PrashanS
Sample : JD29923-3
Misc : MS53008,V1C7855,6.0,,,,1
ALS Vial : 23 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

41	15.679	2310	2313	2321	rBV3	361	709	0.07%	0.013%
42	15.789	2327	2334	2340	rBV4	2782	7007	0.73%	0.129%
43	15.862	2340	2348	2362	rVV	482388	773280	80.01%	14.286%
44	16.004	2366	2375	2381	rBV3	842	1963	0.20%	0.036%
45	16.359	2431	2443	2453	rBV	4994	12456	1.29%	0.230%
46	17.128	2586	2590	2594	rBV3	427	571	0.06%	0.011%
47	17.615	2679	2683	2686	rVB2	425	593	0.06%	0.011%
48	17.787	2711	2716	2721	rBV2	492	533	0.06%	0.010%
49	18.044	2755	2765	2775	rBV2	4643	10072	1.04%	0.186%
50	18.159	2782	2787	2791	rVB2	589	924	0.10%	0.017%
51	18.211	2794	2797	2801	rVB4	793	926	0.10%	0.017%
52	18.258	2801	2806	2807	rBV3	549	645	0.07%	0.012%
53	18.451	2840	2843	2847	rVB3	1156	1383	0.14%	0.026%
54	18.483	2847	2849	2852	rBV2	735	823	0.09%	0.015%
55	18.514	2852	2855	2857	rBV2	646	731	0.08%	0.014%
56	18.624	2873	2876	2880	rBV3	602	917	0.09%	0.017%
57	18.666	2880	2884	2887	rVB5	899	878	0.09%	0.016%
58	18.692	2887	2889	2892	rBV3	985	883	0.09%	0.016%
59	18.734	2895	2897	2900	rBV2	834	807	0.08%	0.015%
60	18.771	2901	2904	2909	rVB4	1050	1000	0.10%	0.018%
61	18.969	2941	2942	2946	rBV4	705	841	0.09%	0.016%
62	19.006	2946	2949	2951	rBV3	756	903	0.09%	0.017%
63	19.074	2957	2962	2964	rBV4	687	1114	0.12%	0.021%
64	19.163	2973	2979	2983	rBV4	1063	1871	0.19%	0.035%
65	19.210	2983	2988	2995	rBV9	1085	2745	0.28%	0.051%
66	19.267	2995	2999	3001	rBV5	946	1058	0.11%	0.020%
67	19.382	3019	3021	3026	rBV4	761	1069	0.11%	0.020%

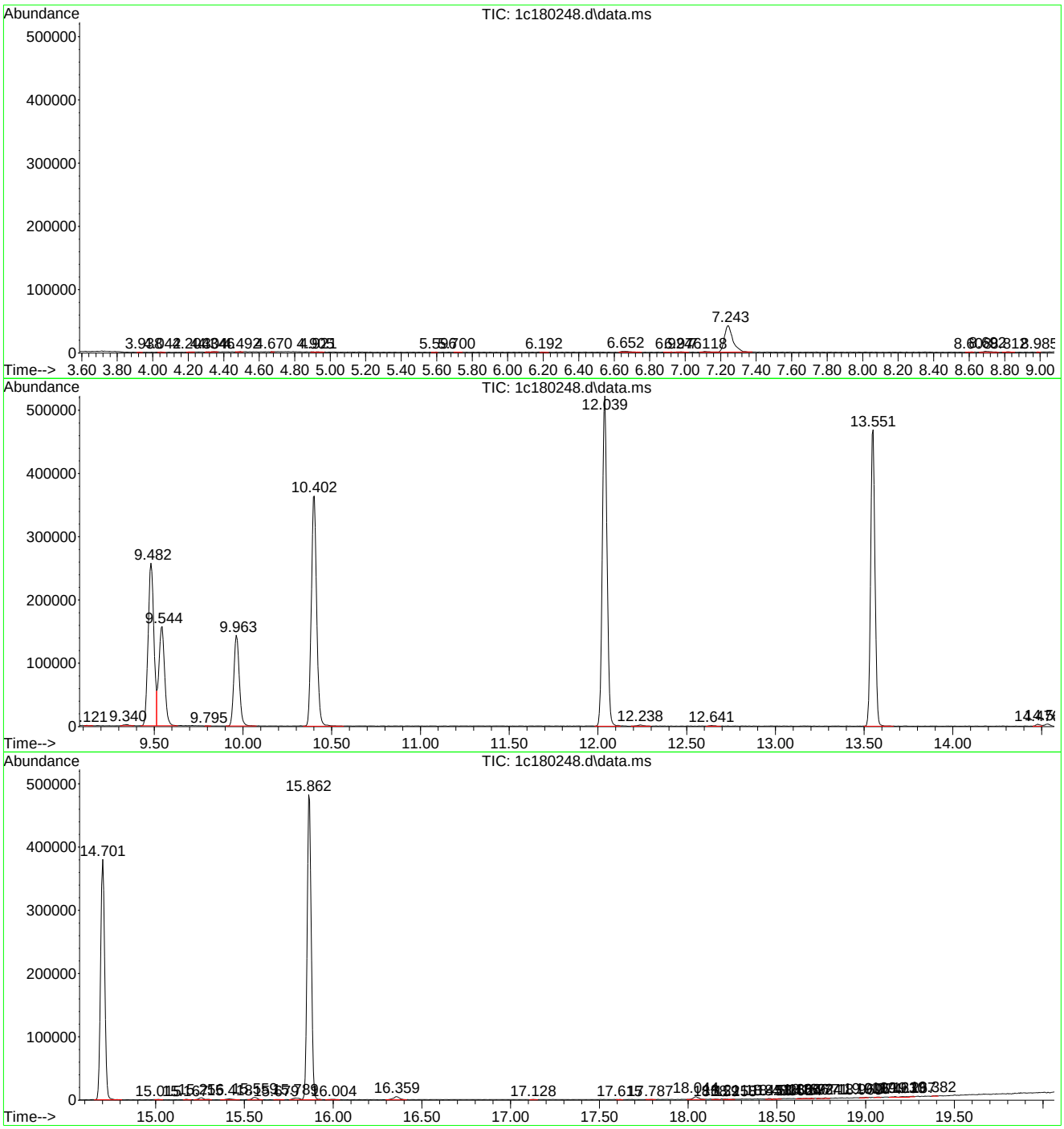
Sum of corrected areas: 5412991

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180248.d
Acq On : 18 Aug 2021 8:41 pm
Operator : PrashanS
Sample : JD29923-3
Misc : MS53008,V1C7855,6.0,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p



Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180248.d
Acq On : 18 Aug 2021 8:41 pm
Operator : PrashanS
Sample : JD29923-3
Misc : MS53008,V1C7855,6.0,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

No Library Search Compounds Detected

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v1c7855\
Data File : 1c180249.d
Acq On : 18 Aug 2021 9:08 pm
Operator : PrashanS
Sample : JD29923-4 Inst : GCMS1C
Misc : MS53008,V1C7855,4.8,,,,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 20 04:08:19 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

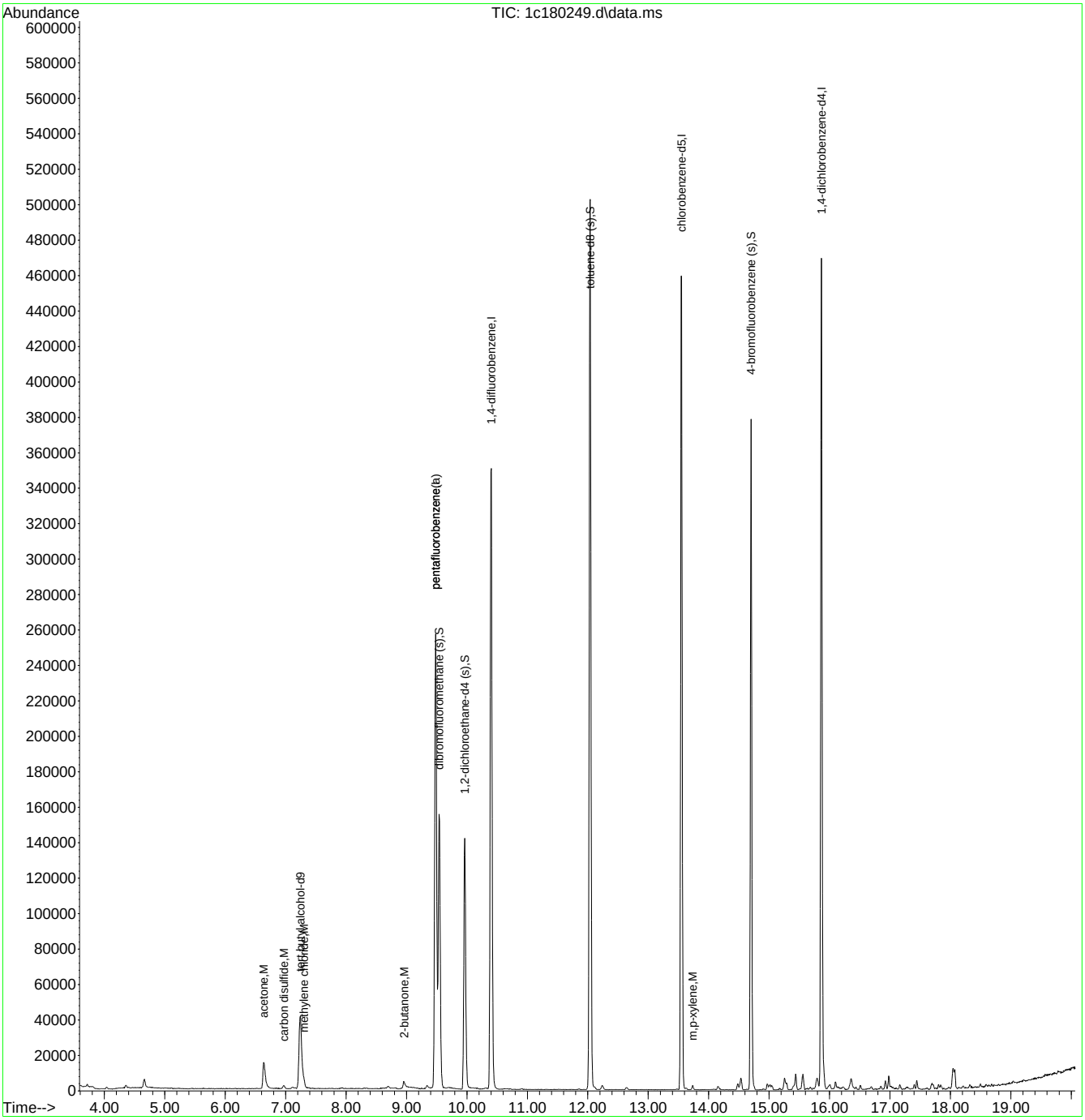
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.243	65	78175	500.00	ug/L	0.00
5) pentafluorobenzene	9.482	168	218301	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.402	114	331736	50.00	ug/L	0.00
73) chlorobenzene-d5	13.551	117	269493	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.868	152	126079	50.00	ug/L	0.00
125) pentafluorobenzene(a)	9.482	168	218301	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.539	113	108099	54.20	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 108.40%			
52) 1,2-dichloroethane-d4 (s)	9.963	65	107942	56.68	ug/L	0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 113.36%			
74) toluene-d8 (s)	12.039	98	367947	51.76	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 103.52%			
97) 4-bromofluorobenzene (s)	14.702	95	122350	49.82	ug/L	0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 99.64%			
Target Compounds						Qvalue
18) acetone	6.636	43	29931	57.23	ug/L	100
21) carbon disulfide	6.971	76	3255	0.58	ug/L	86
22) methylene chloride	7.301	84	1755	0.95	ug/L	99
27) 2-butanone	8.964	72	1431	8.57	ug/L #	40
89) m,p-xylene	13.734	106	928	0.33	ug/L	89

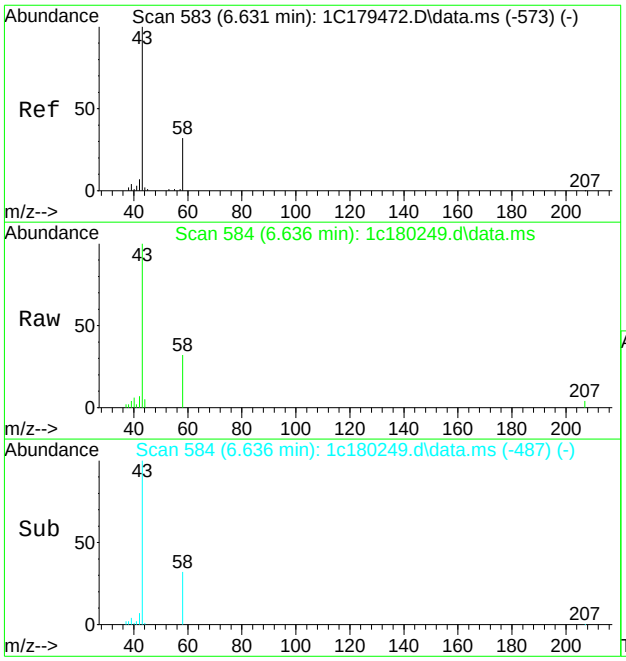
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v1c7855\
Data File : 1c180249.d
Acq On : 18 Aug 2021 9:08 pm
Operator : PrashanS
Sample : JD29923-4 Inst : GCMS1C
Misc : MS53008,V1C7855,4.8,,,,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 20 04:08:19 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

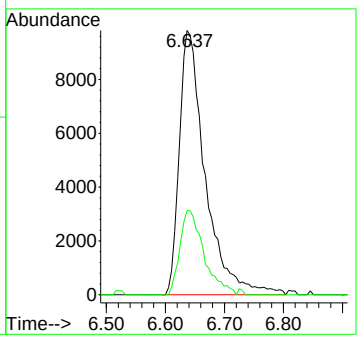


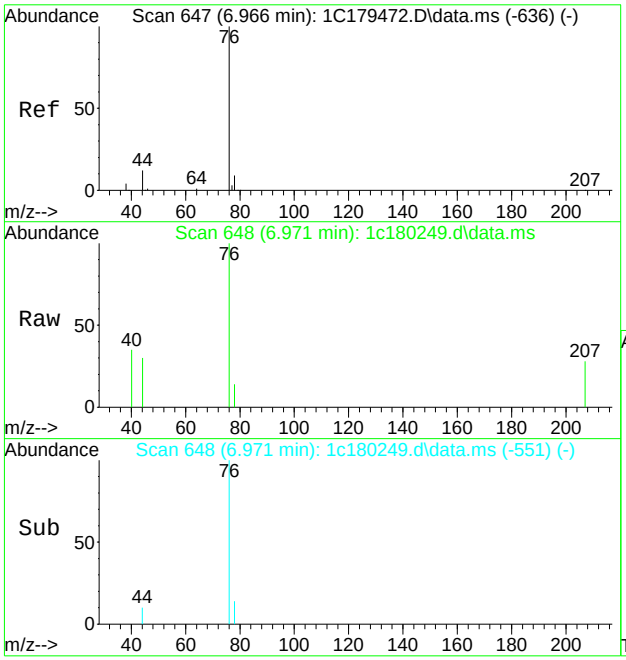


#18
acetone
Concen: 57.23 ug/L
RT: 6.636 min Scan# 584
Delta R.T. 0.005 min
Lab File: 1c180249.d
Acq: 18 Aug 2021 9:08 pm

Tgt Ion: 43 Resp: 29931

Ion	Ratio	Lower	Upper
43	100		
58	31.9	2.0	62.0

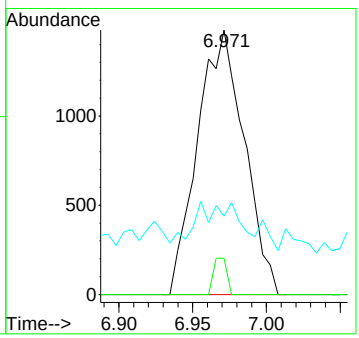


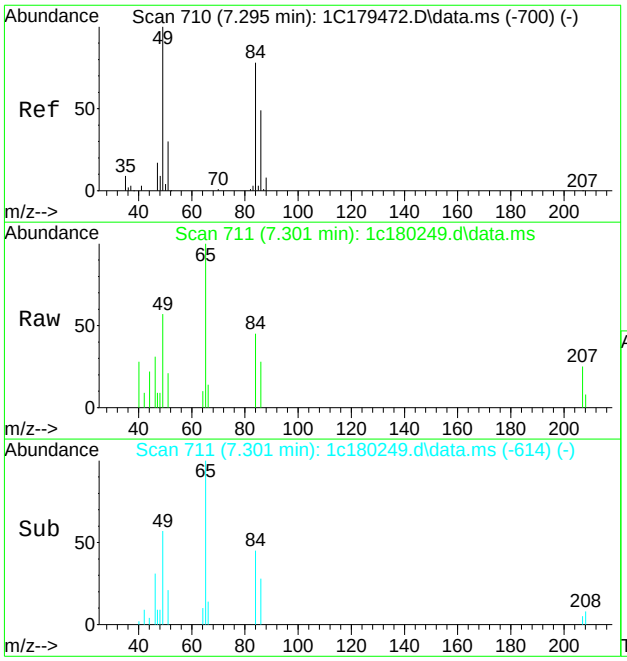


#21
carbon disulfide
Concen: 0.58 ug/L
RT: 6.971 min Scan# 648
Delta R.T. 0.005 min
Lab File: 1c180249.d
Acq: 18 Aug 2021 9:08 pm

Tgt Ion: 76 Resp: 3255

Ion	Ratio	Lower	Upper
76	100		
78	13.7	0.0	39.2
44	5.7	0.0	41.7

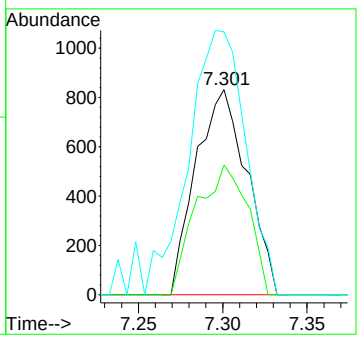


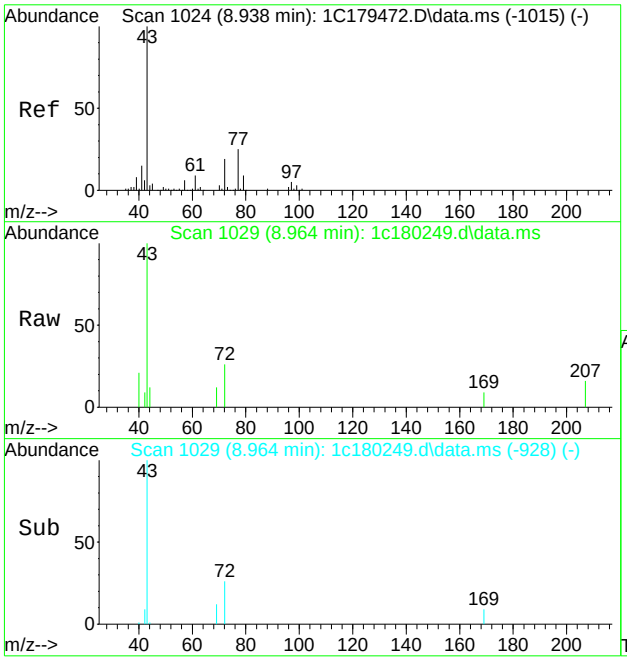


#22
methylene chloride
Concen: 0.95 ug/L
RT: 7.301 min Scan# 711
Delta R.T. 0.005 min
Lab File: 1c180249.d
Acq: 18 Aug 2021 9:08 pm

Tgt Ion: 84 Resp: 1755

Ion	Ratio	Lower	Upper
84	100		
86	63.2	32.9	92.9
49	128.1	99.1	159.1

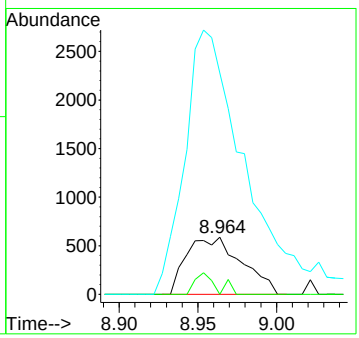


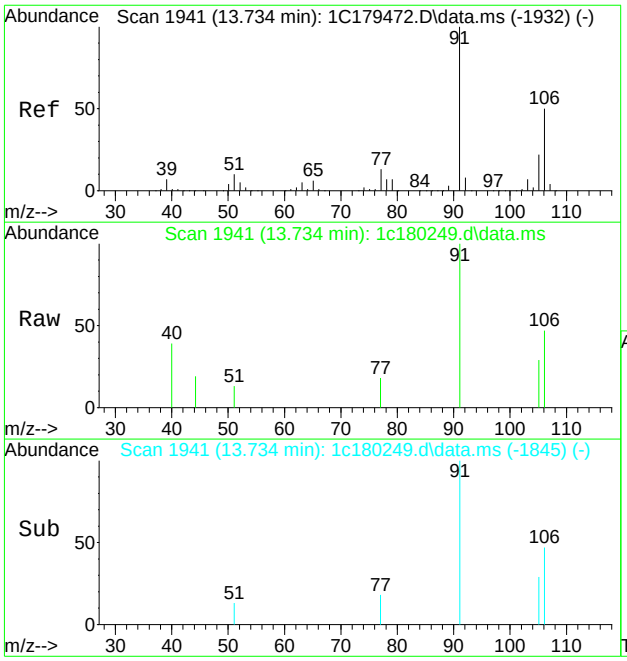


#27
2-butanone
Concen: 8.57 ug/L
RT: 8.964 min Scan# 1029
Delta R.T. 0.026 min
Lab File: 1c180249.d
Acq: 18 Aug 2021 9:08 pm

Tgt Ion: 72 Resp: 1431

Ion	Ratio	Lower	Upper
72	100		
57	0.0	0.0	59.3
43	350.7	490.1	550.1#

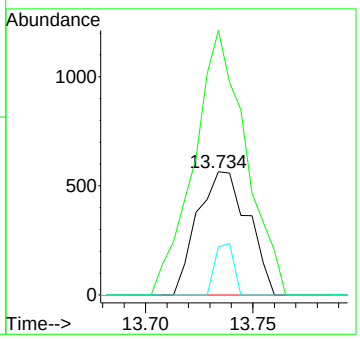




#89
m,p-xylene
Concen: 0.33 ug/L
RT: 13.734 min Scan# 1941
Delta R.T. 0.000 min
Lab File: 1c180249.d
Acq: 18 Aug 2021 9:08 pm

Tgt Ion:106 Resp: 928

Ion	Ratio	Lower	Upper
106	100		
91	214.7	171.2	231.2
77	39.1	0.0	56.8



LSC Area Percent Report

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v1c7855\
Data File : 1c180249.d
Acq On : 18 Aug 2021 9:08 pm
Operator : PrashanS
Sample : JD29923-4
Misc : MS53008,V1C7855,4.8,,,,1
ALS Vial : 24 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

Signal : TIC: 1c180249.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.718	21	26	33	rVB3	1613	2577	0.27%	0.046%
2	4.037	82	87	94	rBV4	1077	1963	0.21%	0.035%
3	4.361	143	149	154	rBV3	1739	3578	0.38%	0.063%
4	4.393	154	155	162	rVB3	694	846	0.09%	0.015%
5	4.665	197	207	221	rBV2	5094	13358	1.40%	0.237%
6	5.449	351	357	359	rBV3	384	663	0.07%	0.012%
7	5.862	430	436	440	rBV3	360	721	0.08%	0.013%
8	6.637	574	584	607	rBV	14782	43008	4.51%	0.762%
9	6.971	638	648	655	rVB2	1871	4527	0.48%	0.080%
10	7.118	663	676	683	rBV4	987	3327	0.35%	0.059%
11	7.243	688	700	721	rBV	41071	140452	14.74%	2.487%
12	8.300	897	902	905	rBV3	589	878	0.09%	0.016%
13	8.692	972	977	985	rBV5	1246	2843	0.30%	0.050%
14	8.807	996	999	1009	rVB6	806	2013	0.21%	0.036%
15	8.954	1020	1027	1042	rBV2	4124	11890	1.25%	0.211%
16	9.173	1068	1069	1077	rVB3	670	987	0.10%	0.017%
17	9.246	1080	1083	1088	rBV3	552	688	0.07%	0.012%
18	9.341	1094	1101	1112	rBV6	1934	4875	0.51%	0.086%
19	9.482	1116	1128	1134	rVV	256478	587051	61.62%	10.395%
20	9.539	1134	1139	1160	rVB	154638	348303	36.56%	6.168%
21	9.712	1162	1172	1174	rBV3	545	1259	0.13%	0.022%
22	9.963	1209	1220	1236	rBV	141670	298209	31.30%	5.280%
23	10.172	1257	1260	1265	rVB4	665	742	0.08%	0.013%
24	10.303	1281	1285	1289	rBV4	452	768	0.08%	0.014%
25	10.402	1294	1304	1329	rVB	350327	744899	78.19%	13.190%
26	10.716	1361	1364	1370	rVB3	437	657	0.07%	0.012%
27	11.851	1576	1581	1587	rVB2	463	801	0.08%	0.014%
28	12.039	1602	1617	1640	rBV	502390	952699	100.00%	16.870%
29	12.238	1646	1655	1666	rVB2	2503	5732	0.60%	0.101%
30	12.641	1726	1732	1742	rVB4	1304	3121	0.33%	0.055%
31	13.472	1883	1891	1896	rBV3	527	1085	0.11%	0.019%
32	13.546	1896	1905	1917	rVV	459340	790176	82.94%	13.992%
33	13.624	1917	1920	1927	rVB3	1008	1940	0.20%	0.034%
34	13.734	1932	1941	1952	rVB2	2618	4320	0.45%	0.076%
35	14.152	2015	2021	2033	rBV4	1898	4202	0.44%	0.074%
36	14.482	2074	2084	2087	rBV3	3519	5937	0.62%	0.105%
37	14.534	2088	2094	2102	rVB2	6646	13205	1.39%	0.234%
38	14.702	2116	2126	2143	rVB	378463	597692	62.74%	10.584%
39	14.968	2172	2177	2181	rVV3	3286	5654	0.59%	0.100%
40	15.021	2181	2187	2189	rVV4	2829	5752	0.60%	0.102%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v1c7855\
Data File : 1c180249.d
Acq On : 18 Aug 2021 9:08 pm
Operator : PrashanS
Sample : JD29923-4
Misc : MS53008,V1C7855,4.8,,,,1
ALS Vial : 24 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

41	15.042	2189	2191	2199	rVB2	2456	3755	0.39%	0.066%
42	15.167	2211	2215	2221	rVB4	818	1271	0.13%	0.023%
43	15.256	2221	2232	2245	rBV3	6677	18011	1.89%	0.319%
44	15.439	2252	2267	2275	rBV2	8977	18310	1.92%	0.324%
45	15.507	2275	2280	2282	rVV2	765	987	0.10%	0.017%
46	15.559	2282	2290	2296	rVB3	8846	17331	1.82%	0.307%
47	15.638	2301	2305	2307	rVB3	651	727	0.08%	0.013%
48	15.680	2307	2313	2319	rVB4	1425	2615	0.27%	0.046%
49	15.727	2319	2322	2325	rBV	962	1133	0.12%	0.020%
50	15.789	2325	2334	2341	rVV3	6233	16249	1.71%	0.288%
51	15.863	2341	2348	2365	rVV	468845	781507	82.03%	13.838%
52	16.009	2365	2376	2381	rVB9	2407	6095	0.64%	0.108%
53	16.093	2387	2392	2398	rBV2	3914	6621	0.69%	0.117%
54	16.135	2398	2400	2403	rVV2	1365	1548	0.16%	0.027%
55	16.161	2403	2405	2407	rVV3	976	804	0.08%	0.014%
56	16.224	2410	2417	2428	rVB4	1508	3914	0.41%	0.069%
57	16.360	2428	2443	2455	rBV2	6113	17416	1.83%	0.308%
58	16.438	2455	2458	2463	rVB4	1581	1733	0.18%	0.031%
59	16.511	2467	2472	2479	rBV3	2483	3904	0.41%	0.069%
60	16.689	2501	2506	2513	rVB5	1754	3331	0.35%	0.059%
61	16.767	2513	2521	2522	rBV3	502	897	0.09%	0.016%
62	16.820	2526	2531	2533	rBV2	617	830	0.09%	0.015%
63	16.851	2533	2537	2542	rVB3	1653	2463	0.26%	0.044%
64	16.924	2544	2551	2556	rBV3	4859	7541	0.79%	0.134%
65	16.977	2556	2561	2566	rBV	7262	10944	1.15%	0.194%
66	17.045	2573	2574	2580	rVB3	973	988	0.10%	0.017%
67	17.107	2582	2586	2591	rBV2	727	865	0.09%	0.015%
68	17.160	2591	2596	2605	rVB5	2846	5046	0.53%	0.089%
69	17.285	2610	2620	2630	rBV6	1407	4159	0.44%	0.074%
70	17.364	2630	2635	2637	rBV3	466	671	0.07%	0.012%
71	17.400	2637	2642	2646	rVV	2718	3634	0.38%	0.064%
72	17.442	2646	2650	2664	rVB	5204	8254	0.87%	0.146%
73	17.599	2677	2680	2682	rBV2	613	752	0.08%	0.013%
74	17.615	2682	2683	2688	rVB2	913	806	0.08%	0.014%
75	17.698	2690	2699	2708	rBV4	3440	9284	0.97%	0.164%
76	17.756	2708	2710	2714	rVB	842	778	0.08%	0.014%
77	17.803	2714	2719	2723	rBV3	2743	4099	0.43%	0.073%
78	17.840	2723	2726	2734	rVB2	2324	3574	0.38%	0.063%
79	17.970	2743	2751	2756	rBV2	1272	2656	0.28%	0.047%
80	18.044	2756	2765	2768	rBV2	11543	23269	2.44%	0.412%
81	18.143	2779	2784	2790	rBV6	941	2104	0.22%	0.037%
82	18.211	2790	2797	2802	rVV5	1396	2824	0.30%	0.050%
83	18.321	2810	2818	2822	rBV4	1871	3107	0.33%	0.055%
84	18.373	2827	2828	2831	rBV2	759	669	0.07%	0.012%
85	18.420	2831	2837	2839	rBV5	766	1243	0.13%	0.022%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v1c7855\
Data File : 1c180249.d
Acq On : 18 Aug 2021 9:08 pm
Operator : PrashanS
Sample : JD29923-4
Misc : MS53008,V1C7855,4.8,,,,1
ALS Vial : 24 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

86	18.499	2846	2852	2856	rBV4	2095	3200	0.34%	0.057%
87	18.593	2864	2870	2875	rBV6	1819	3723	0.39%	0.066%
88	18.635	2875	2878	2884	rBV3	1089	1672	0.18%	0.030%
89	18.677	2884	2886	2893	rBV5	1255	1619	0.17%	0.029%
90	18.718	2893	2894	2901	rBV4	1017	1593	0.17%	0.028%
91	18.797	2906	2909	2914	rBV3	938	1071	0.11%	0.019%
92	18.839	2914	2917	2920	rBV5	759	1094	0.11%	0.019%
93	18.865	2920	2922	2928	rBV5	704	715	0.08%	0.013%
94	18.938	2932	2936	2937	rBV3	984	1090	0.11%	0.019%
95	18.975	2942	2943	2946	rBV3	1032	697	0.07%	0.012%
96	19.037	2948	2955	2959	rBV6	1677	3344	0.35%	0.059%
97	19.210	2986	2988	2995	rVB7	1034	1563	0.16%	0.028%
98	19.566	3055	3056	3059	rBV3	1253	1003	0.11%	0.018%
99	19.691	3078	3080	3082	rBV2	1154	948	0.10%	0.017%
100	19.780	3094	3097	3102	rBV6	1435	1942	0.20%	0.034%

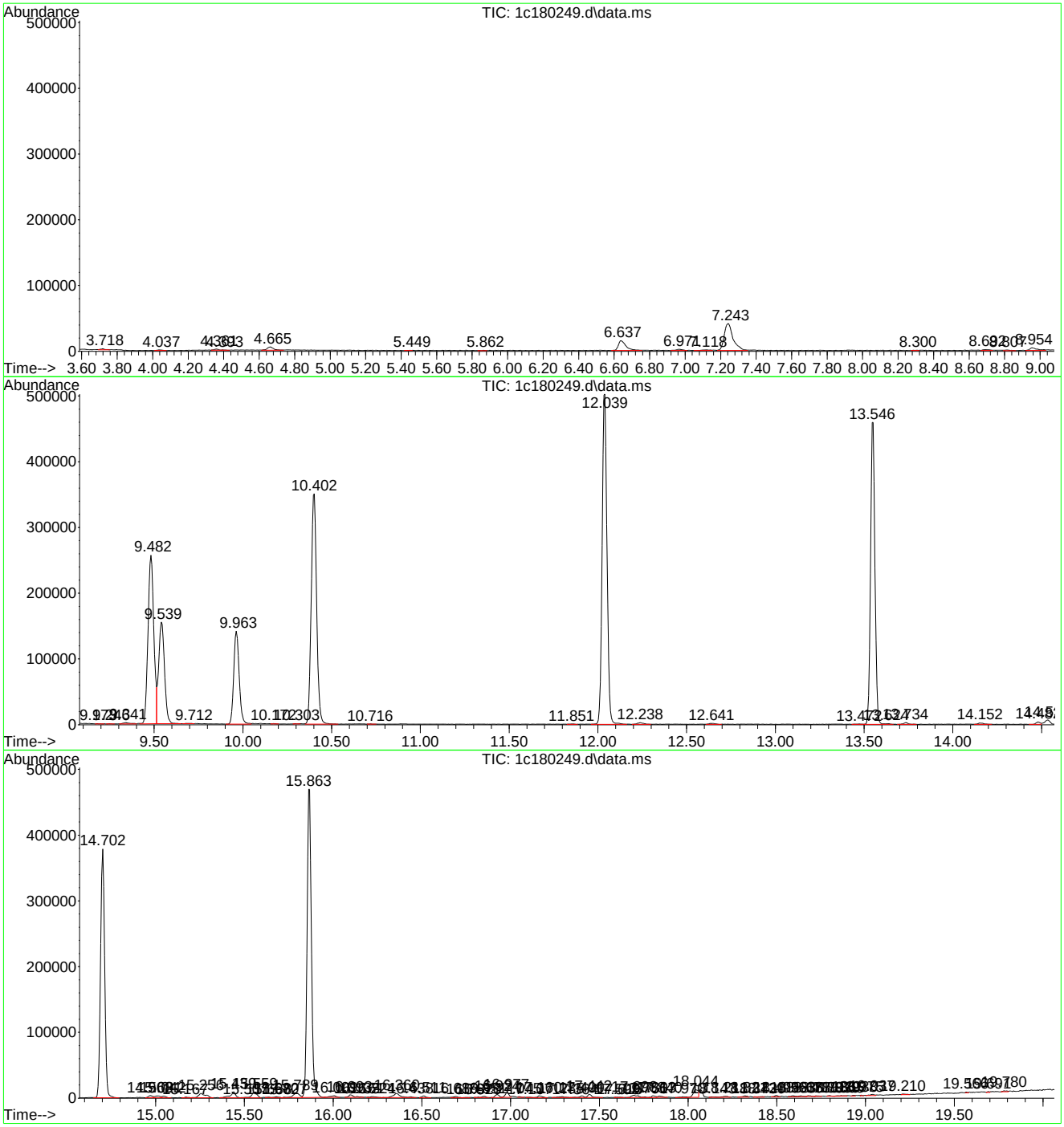
Sum of corrected areas: 5647391

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v1c7855\
Data File : 1c180249.d
Acq On : 18 Aug 2021 9:08 pm
Operator : PrashanS
Sample : JD29923-4
Misc : MS53008,V1C7855,4.8,,,,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p



Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v1c7855\
Data File : 1c180249.d
Acq On : 18 Aug 2021 9:08 pm
Operator : PrashanS
Sample : JD29923-4
Misc : MS53008,V1C7855,4.8,,,,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

No Library Search Compounds Detected

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v1c7855\
Data File : 1c180250.d
Acq On : 18 Aug 2021 9:35 pm
Operator : PrashanS
Sample : JD29923-5 Inst : GCMS1C
Misc : MS53008,V1C7855,5.9,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 20 04:09:15 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

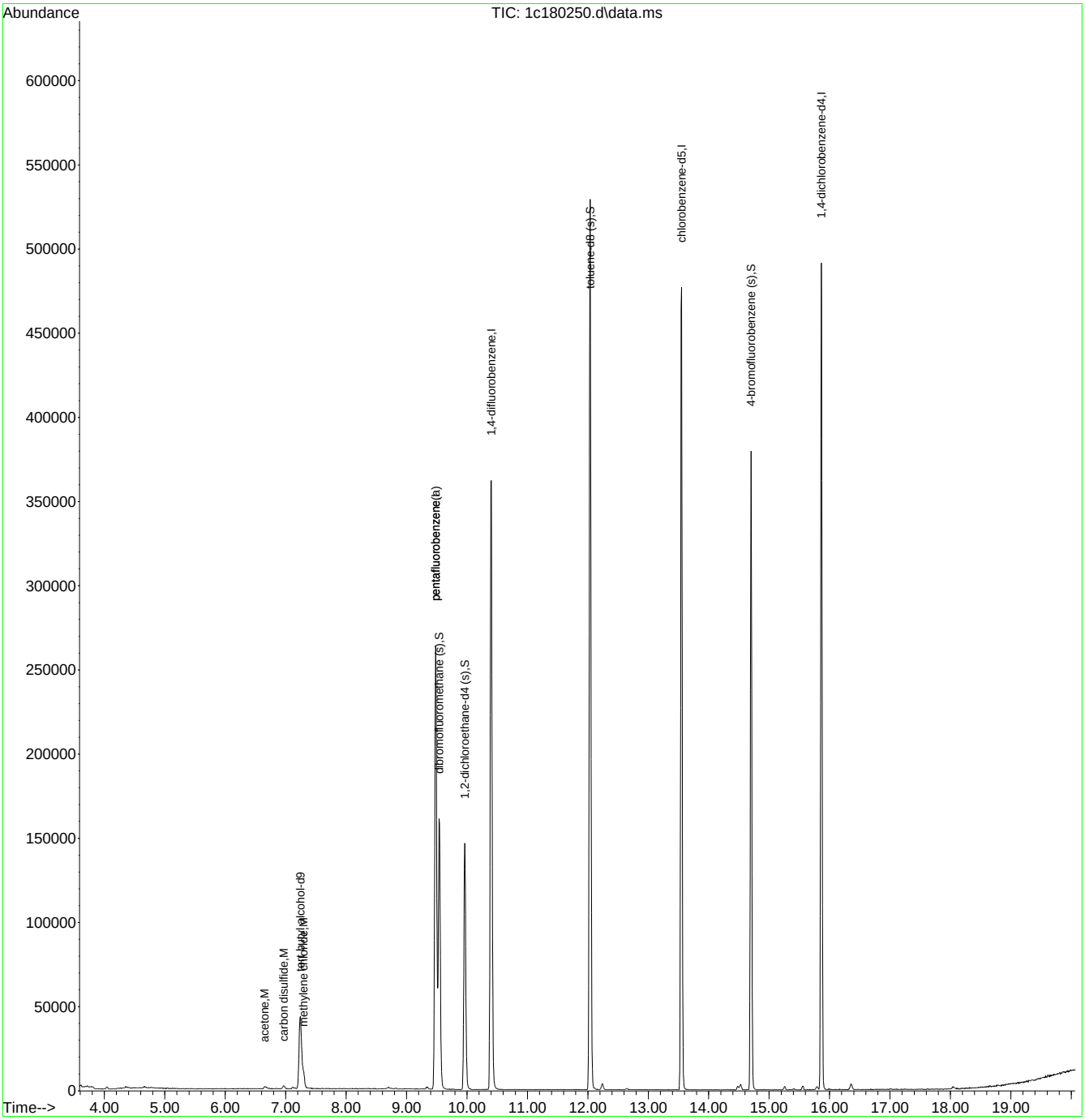
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.243	65	81003	500.00	ug/L	0.00
5) pentafluorobenzene	9.482	168	223104	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.402	114	342838	50.00	ug/L	0.00
73) chlorobenzene-d5	13.551	117	277038	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.863	152	131216	50.00	ug/L	0.00
125) pentafluorobenzene(a)	9.482	168	223104	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.539	113	111265	54.59	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 109.18%			
52) 1,2-dichloroethane-d4 (s)	9.963	65	112656	57.24	ug/L	0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 114.48%			
74) toluene-d8 (s)	12.039	98	378878	51.85	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 103.70%			
97) 4-bromofluorobenzene (s)	14.701	95	125588	49.14	ug/L	0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 98.28%			
Target Compounds						Qvalue
18) acetone	6.652	43	3097	5.79	ug/L	99
21) carbon disulfide	6.966	76	3251	0.57	ug/L	90
22) methylene chloride	7.295	84	3276	1.74	ug/L	93

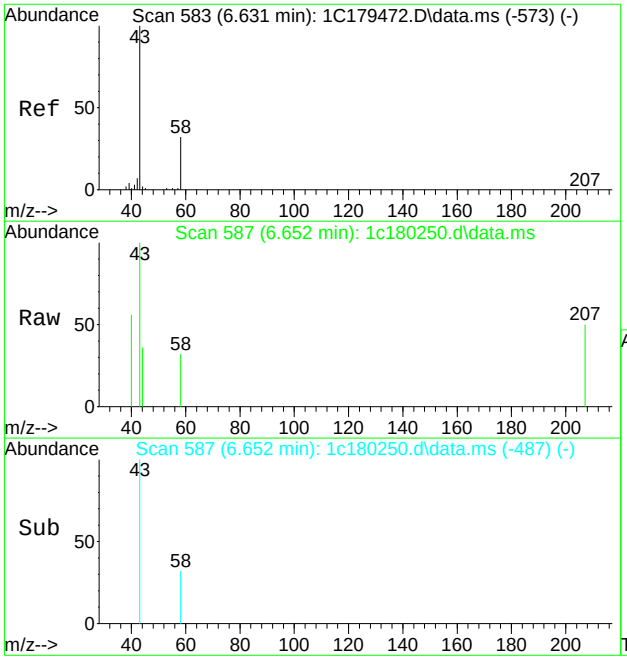
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v1c7855\
Data File : 1c180250.d
Acq On : 18 Aug 2021 9:35 pm
Operator : PrashanS
Sample : JD29923-5 Inst : GCMS1C
Misc : MS53008,V1C7855,5.9,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 20 04:09:15 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

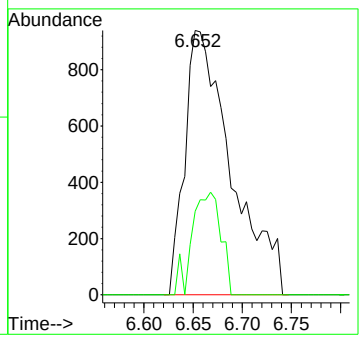


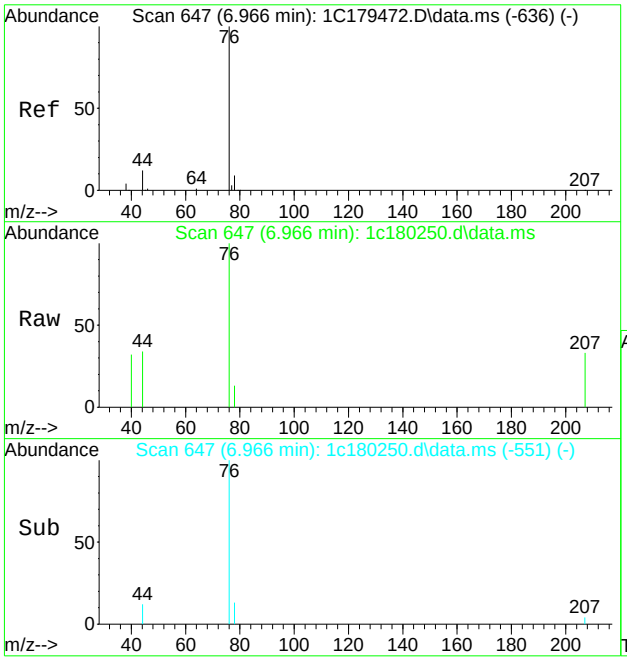


#18
acetone
Concen: 5.79 ug/L
RT: 6.652 min Scan# 587
Delta R.T. 0.021 min
Lab File: 1c180250.d
Acq: 18 Aug 2021 9:35 pm

Tgt Ion: 43 Resp: 3097

Ion	Ratio	Lower	Upper
43	100		
58	31.6	2.0	62.0

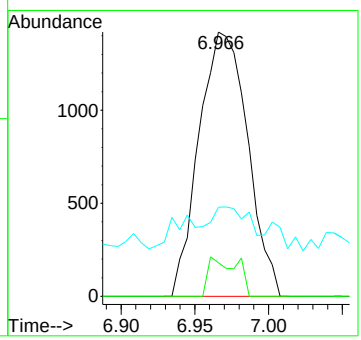


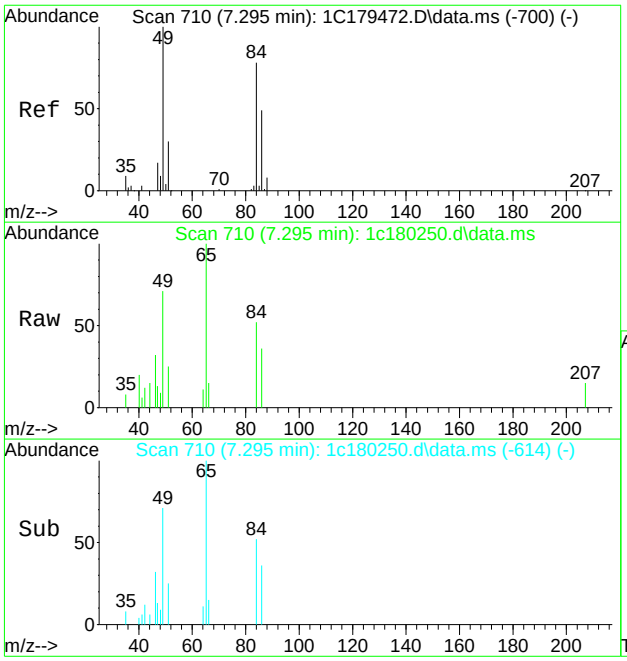


#21
carbon disulfide
Concen: 0.57 ug/L
RT: 6.966 min Scan# 647
Delta R.T. 0.000 min
Lab File: 1c180250.d
Acq: 18 Aug 2021 9:35 pm

Tgt Ion: 76 Resp: 3251

Ion	Ratio	Lower	Upper
76	100		
78	12.7	0.0	39.2
44	15.8	0.0	41.7

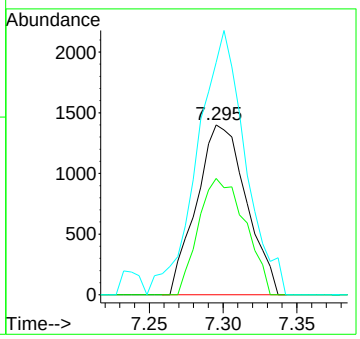




#22
methylene chloride
Concen: 1.74 ug/L
RT: 7.295 min Scan# 710
Delta R.T. 0.000 min
Lab File: 1c180250.d
Acq: 18 Aug 2021 9:35 pm

Tgt Ion: 84 Resp: 3276

Ion	Ratio	Lower	Upper
84	100		
86	68.5	32.9	92.9
49	136.7	99.1	159.1



LSC Area Percent Report

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v1c7855\
Data File : 1c180250.d
Acq On : 18 Aug 2021 9:35 pm
Operator : PrashanS
Sample : JD29923-5
Misc : MS53008,V1C7855,5.9,,,,1
ALS Vial : 25 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

Signal : TIC: 1c180250.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.608	4	5	9	rVB2	1275	1303	0.13%	0.024%
2	3.713	24	25	30	rVB4	874	896	0.09%	0.016%
3	3.791	38	40	53	rVB	1589	3616	0.37%	0.066%
4	4.042	83	88	96	rVB4	1261	2416	0.25%	0.044%
5	4.215	114	121	123	rBV2	481	835	0.09%	0.015%
6	4.309	136	139	144	rBV3	486	832	0.08%	0.015%
7	4.356	144	148	152	rVV4	930	1454	0.15%	0.027%
8	4.665	199	207	215	rBV3	1044	1859	0.19%	0.034%
9	4.764	225	226	233	rBV3	370	519	0.05%	0.009%
10	5.041	278	279	285	rVB2	479	585	0.06%	0.011%
11	6.652	582	587	601	rBV5	1358	4322	0.44%	0.079%
12	6.966	638	647	656	rBV	1786	4668	0.48%	0.085%
13	7.118	667	676	680	rBV3	946	1890	0.19%	0.034%
14	7.243	688	700	730	rBV	43092	151561	15.46%	2.763%
15	8.702	971	979	986	rBV2	880	1832	0.19%	0.033%
16	8.817	996	1001	1007	rVB2	581	1037	0.11%	0.019%
17	9.330	1095	1099	1100	rBV2	1254	1018	0.10%	0.019%
18	9.482	1116	1128	1134	rBV	263089	595870	60.78%	10.861%
19	9.539	1134	1139	1167	rVB	160840	364822	37.21%	6.650%
20	9.764	1176	1182	1187	rBV2	356	695	0.07%	0.013%
21	9.963	1209	1220	1237	rBV	146346	312430	31.87%	5.695%
22	10.402	1294	1304	1325	rBV	361804	768057	78.34%	14.000%
23	12.039	1605	1617	1636	rBV	528843	980397	100.00%	17.870%
24	12.238	1646	1655	1666	rVB3	3607	8219	0.84%	0.150%
25	12.364	1673	1679	1684	rVB2	257	517	0.05%	0.009%
26	12.646	1725	1733	1742	rVB4	782	1885	0.19%	0.034%
27	13.551	1894	1906	1924	rBV	476655	813950	83.02%	14.836%
28	14.477	2076	2083	2088	rBV5	2458	5014	0.51%	0.091%
29	14.534	2088	2094	2103	rVB6	3439	6998	0.71%	0.128%
30	14.701	2116	2126	2144	rVB	379331	611060	62.33%	11.138%
31	15.172	2211	2216	2219	rVB	363	527	0.05%	0.010%
32	15.256	2225	2232	2243	rVB2	2141	4083	0.42%	0.074%
33	15.413	2253	2262	2270	rVB3	807	1311	0.13%	0.024%
34	15.554	2279	2289	2299	rBV3	2353	4560	0.47%	0.083%
35	15.638	2299	2305	2309	rVB2	434	793	0.08%	0.014%
36	15.674	2309	2312	2316	rBV	597	610	0.06%	0.011%
37	15.789	2325	2334	2340	rBV3	1871	4117	0.42%	0.075%
38	15.863	2340	2348	2367	rVB	491196	782730	79.84%	14.267%
39	15.999	2371	2374	2378	rVB3	706	714	0.07%	0.013%
40	16.359	2432	2443	2454	rBV	3536	9176	0.94%	0.167%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v1c7855\
Data File : 1c180250.d
Acq On : 18 Aug 2021 9:35 pm
Operator : PrashanS
Sample : JD29923-5
Misc : MS53008,V1C7855,5.9,,,,1
ALS Vial : 25 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

41	16.480	2458	2466	2473	rVV3	216	619	0.06%	0.011%
42	16.558	2478	2481	2485	rBV3	331	593	0.06%	0.011%
43	16.678	2501	2504	2508	rVB2	589	727	0.07%	0.013%
44	16.752	2511	2518	2519	rBV3	278	546	0.06%	0.010%
45	17.013	2565	2568	2576	rBV3	670	990	0.10%	0.018%
46	17.615	2678	2683	2685	rBV2	701	783	0.08%	0.014%
47	17.845	2725	2727	2735	rVB2	412	896	0.09%	0.016%
48	17.892	2735	2736	2743	rBV3	504	1069	0.11%	0.019%
49	18.049	2759	2766	2776	rVB4	1497	3926	0.40%	0.072%
50	18.143	2781	2784	2786	rVB2	666	571	0.06%	0.010%
51	18.174	2786	2790	2791	rBV2	689	734	0.07%	0.013%
52	18.195	2791	2794	2799	rVB4	549	687	0.07%	0.013%
53	18.258	2803	2806	2808	rBV2	786	632	0.06%	0.012%
54	18.316	2816	2817	2822	rBV3	798	732	0.07%	0.013%
55	18.504	2848	2853	2856	rBV2	627	643	0.07%	0.012%
56	18.593	2869	2870	2873	rBV3	659	526	0.05%	0.010%
57	18.645	2877	2880	2882	rVV3	1034	892	0.09%	0.016%
58	18.661	2882	2883	2886	rVB2	796	575	0.06%	0.010%
59	18.776	2903	2905	2908	rBV4	1013	976	0.10%	0.018%
60	18.865	2919	2922	2924	rBV2	1078	1010	0.10%	0.018%
61	18.886	2924	2926	2930	rBV2	765	900	0.09%	0.016%
62	18.912	2930	2931	2935	rBV4	856	1039	0.11%	0.019%
63	19.111	2965	2969	2971	rBV5	881	982	0.10%	0.018%
64	19.215	2988	2989	2992	rBV3	774	761	0.08%	0.014%
65	19.299	3003	3005	3010	rBV5	1283	2077	0.21%	0.038%
66	19.576	3056	3058	3062	rVB2	1346	944	0.10%	0.017%
67	19.618	3062	3066	3068	rBV5	1671	2156	0.22%	0.039%

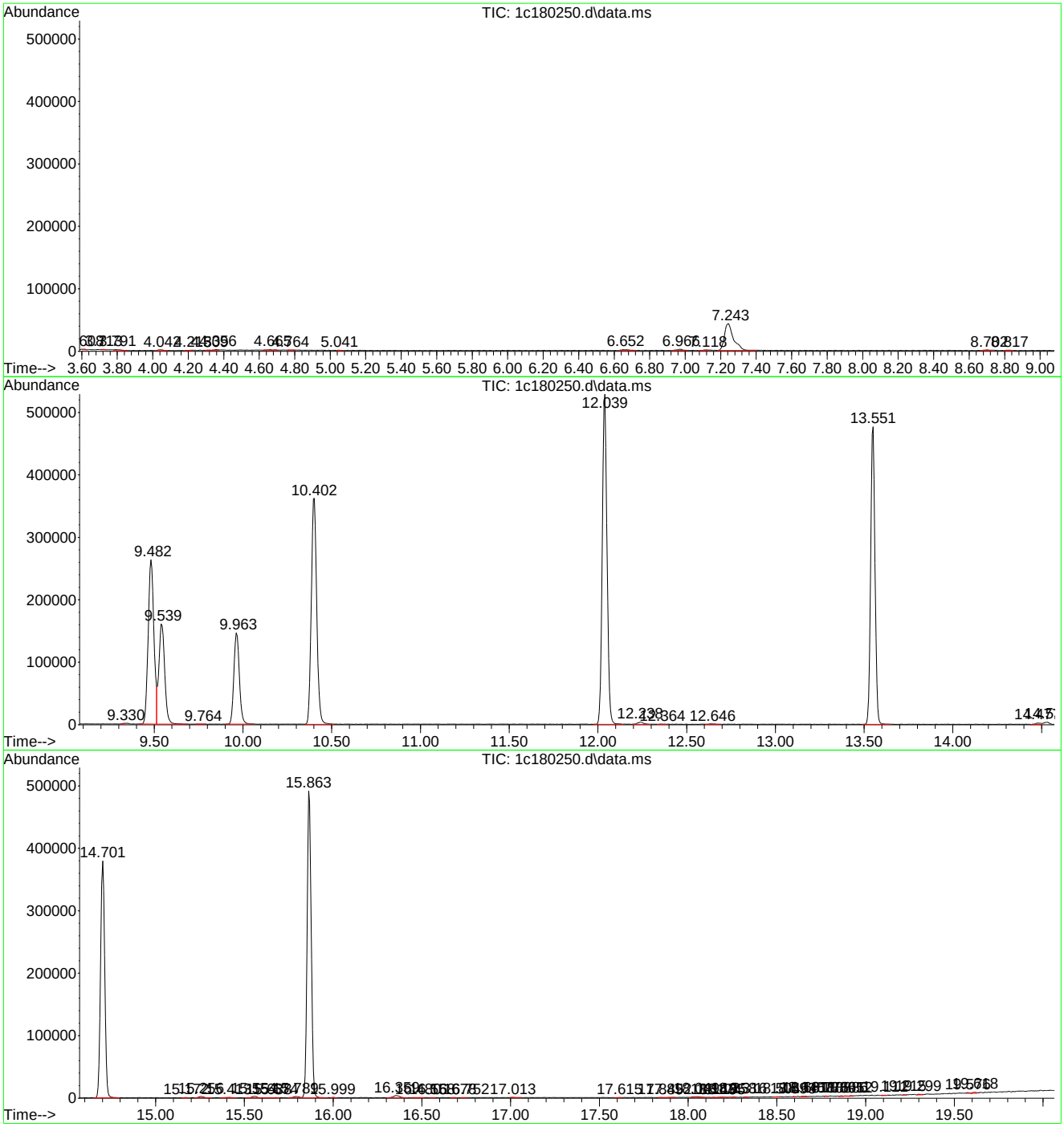
Sum of corrected areas: 5486164

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v1c7855\
Data File : 1c180250.d
Acq On : 18 Aug 2021 9:35 pm
Operator : PrashanS
Sample : JD29923-5
Misc : MS53008,V1C7855,5.9,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p



Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v1c7855\
Data File : 1c180250.d
Acq On : 18 Aug 2021 9:35 pm
Operator : PrashanS
Sample : JD29923-5
Misc : MS53008,V1C7855,5.9,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

No Library Search Compounds Detected

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v1c7855\
Data File : 1c180251.d
Acq On : 18 Aug 2021 10:02 pm
Operator : PrashanS
Sample : JD29923-6 Inst : GCMS1C
Misc : MS53008,V1C7855,4.4,,,,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 20 04:10:01 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

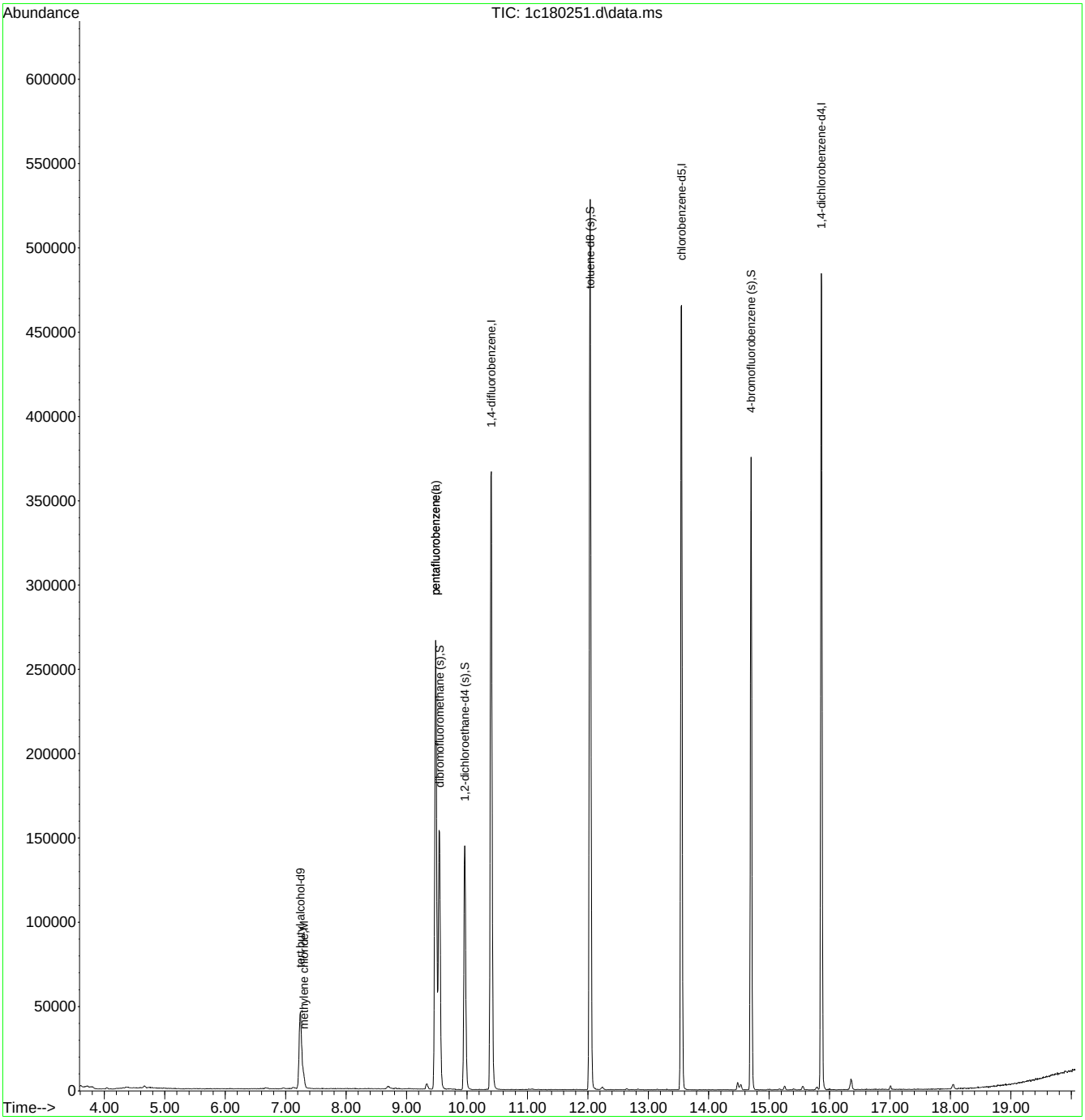
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.243	65	84100	500.00	ug/L	0.00
5) pentafluorobenzene	9.482	168	223177	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.402	114	343182	50.00	ug/L	0.00
73) chlorobenzene-d5	13.551	117	274815	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.863	152	132043	50.00	ug/L	0.00
125) pentafluorobenzene(a)	9.482	168	223177	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.544	113	110008	53.95	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 107.90%			
52) 1,2-dichloroethane-d4 (s)	9.963	65	111349	56.52	ug/L	0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 113.04%			
74) toluene-d8 (s)	12.039	98	375823	51.85	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 103.70%			
97) 4-bromofluorobenzene (s)	14.701	95	125309	48.72	ug/L	0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 97.44%			
Target Compounds						Qvalue
22) methylene chloride	7.301	84	2804	1.49	ug/L	95

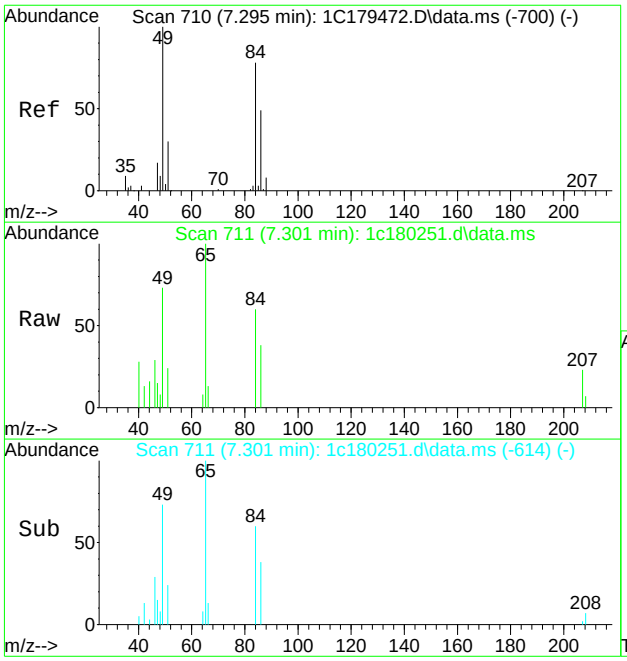
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v1c7855\
Data File : 1c180251.d
Acq On : 18 Aug 2021 10:02 pm
Operator : PrashanS
Sample : JD29923-6 Inst : GCMS1C
Misc : MS53008,V1C7855,4.4,,,,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 20 04:10:01 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

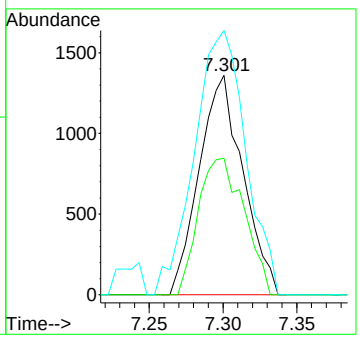




#22
methylene chloride
Concen: 1.49 ug/L
RT: 7.301 min Scan# 711
Delta R.T. 0.005 min
Lab File: 1c180251.d
Acq: 18 Aug 2021 10:02 pm

Tgt Ion: 84 Resp: 2804

Ion	Ratio	Lower	Upper
84	100		
86	62.3	32.9	92.9
49	120.5	99.1	159.1



LSC Area Percent Report

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v1c7855\
Data File : 1c180251.d
Acq On : 18 Aug 2021 10:02 pm
Operator : PrashanS
Sample : JD29923-6
Misc : MS53008,V1C7855,4.4,,,,1
ALS Vial : 26 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

Signal : TIC: 1c180251.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.608	3	5	13	rVB3	1091	1552	0.16%	0.028%
2	3.802	41	42	55	rVB2	1310	2154	0.22%	0.039%
3	4.037	84	87	96	rVB4	925	1779	0.18%	0.032%
4	4.204	113	119	123	rBV3	449	817	0.08%	0.015%
5	4.309	134	139	144	rBV2	474	713	0.07%	0.013%
6	4.361	144	149	154	rBV3	704	1585	0.16%	0.029%
7	4.476	169	171	177	rBV4	386	520	0.05%	0.009%
8	4.523	178	180	187	rVB2	410	512	0.05%	0.009%
9	4.665	198	207	213	rVB3	1276	2809	0.29%	0.051%
10	5.360	332	340	344	rBV2	391	940	0.10%	0.017%
11	5.580	379	382	389	rVB3	342	564	0.06%	0.010%
12	6.668	585	590	602	rBV4	783	2213	0.23%	0.040%
13	6.961	640	646	656	rBV2	600	1217	0.13%	0.022%
14	7.123	673	677	684	rBV3	742	1792	0.18%	0.033%
15	7.243	688	700	723	rBV3	45445	153763	15.81%	2.798%
16	8.326	899	907	908	rVB3	367	690	0.07%	0.013%
17	8.498	931	940	943	rVB3	251	517	0.05%	0.009%
18	8.692	967	977	986	rBV3	1682	5117	0.53%	0.093%
19	8.828	996	1003	1008	rBV4	736	1387	0.14%	0.025%
20	9.340	1094	1101	1111	rBV6	3289	7949	0.82%	0.145%
21	9.482	1115	1128	1134	rVV	266312	596888	61.37%	10.860%
22	9.539	1134	1139	1158	rVV	153585	357057	36.71%	6.496%
23	9.696	1162	1169	1171	rBV3	567	799	0.08%	0.015%
24	9.963	1210	1220	1245	rBV	144732	308871	31.76%	5.620%
25	10.334	1287	1291	1293	rBV2	483	520	0.05%	0.009%
26	10.402	1293	1304	1329	rVV	366592	768093	78.97%	13.975%
27	11.019	1417	1422	1426	rBV2	373	524	0.05%	0.010%
28	12.039	1606	1617	1636	rBV	528220	972589	100.00%	17.696%
29	12.243	1645	1656	1668	rBV3	1792	4658	0.48%	0.085%
30	12.646	1725	1733	1739	rBV4	735	1270	0.13%	0.023%
31	12.829	1761	1768	1777	rBV3	540	843	0.09%	0.015%
32	13.143	1825	1828	1833	rVB2	445	636	0.07%	0.012%
33	13.551	1895	1906	1925	rBV	465395	806960	82.97%	14.682%
34	13.854	1956	1964	1967	rBV2	330	631	0.06%	0.011%
35	14.482	2074	2084	2088	rBV3	4354	7783	0.80%	0.142%
36	14.529	2088	2093	2101	rVB3	3203	6753	0.69%	0.123%
37	14.701	2118	2126	2140	rBV	375357	610392	62.76%	11.106%
38	14.973	2171	2178	2182	rBV2	407	725	0.07%	0.013%
39	15.015	2182	2186	2190	rBV3	447	651	0.07%	0.012%
40	15.167	2211	2215	2225	rBV4	631	1301	0.13%	0.024%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v1c7855\
Data File : 1c180251.d
Acq On : 18 Aug 2021 10:02 pm
Operator : PrashanS
Sample : JD29923-6
Misc : MS53008,V1C7855,4.4,,,,1
ALS Vial : 26 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

41	15.256	2225	2232	2243	rVB2	2331	4202	0.43%	0.076%
42	15.402	2257	2260	2262	rBV2	708	672	0.07%	0.012%
43	15.559	2282	2290	2297	rBV3	2241	4652	0.48%	0.085%
44	15.795	2322	2335	2340	rBV3	1846	4300	0.44%	0.078%
45	15.863	2340	2348	2367	rVV	484431	788639	81.09%	14.349%
46	15.999	2370	2374	2380	rVB3	703	952	0.10%	0.017%
47	16.354	2431	2442	2457	rBV	6536	14748	1.52%	0.268%
48	16.474	2462	2465	2472	rVB2	366	768	0.08%	0.014%
49	16.537	2472	2477	2480	rBV3	413	749	0.08%	0.014%
50	17.008	2562	2567	2576	rBV5	2264	3489	0.36%	0.063%
51	17.228	2603	2609	2612	rBV3	324	544	0.06%	0.010%
52	17.704	2699	2700	2705	rBV3	467	606	0.06%	0.011%
53	17.803	2717	2719	2723	rVB3	505	571	0.06%	0.010%
54	17.840	2723	2726	2730	rBV3	615	624	0.06%	0.011%
55	18.054	2757	2767	2778	rVB2	2796	6689	0.69%	0.122%
56	18.132	2778	2782	2788	rBV2	611	938	0.10%	0.017%
57	18.232	2798	2801	2807	rVB4	651	1086	0.11%	0.020%
58	18.326	2815	2819	2820	rBV2	662	710	0.07%	0.013%
59	18.436	2834	2840	2841	rBV3	606	878	0.09%	0.016%
60	18.509	2849	2854	2856	rBV3	334	524	0.05%	0.010%
61	18.640	2878	2879	2883	rBV3	839	823	0.08%	0.015%
62	18.671	2883	2885	2890	rVV4	821	1250	0.13%	0.023%
63	18.723	2891	2895	2897	rVB2	884	818	0.08%	0.015%
64	18.744	2897	2899	2902	rBV3	547	630	0.06%	0.011%
65	18.781	2904	2906	2912	rBV6	977	1770	0.18%	0.032%
66	18.907	2925	2930	2931	rBV4	892	1081	0.11%	0.020%
67	18.933	2934	2935	2939	rBV2	663	679	0.07%	0.012%
68	18.969	2939	2942	2944	rBV3	785	779	0.08%	0.014%
69	19.016	2947	2951	2955	rBV5	913	1556	0.16%	0.028%
70	19.142	2967	2975	2976	rBV5	689	974	0.10%	0.018%
71	19.199	2983	2986	2990	rBV4	1158	1509	0.16%	0.027%
72	19.362	3011	3017	3018	rBV6	1248	2061	0.21%	0.037%
73	19.409	3025	3026	3031	rBV4	1294	1426	0.15%	0.026%
74	19.670	3071	3076	3078	rBV6	1559	2475	0.25%	0.045%
75	19.890	3116	3118	3127	rBV7	1518	3354	0.34%	0.061%
76	20.021	3141	3143	3147	rBV2	1889	2153	0.22%	0.039%

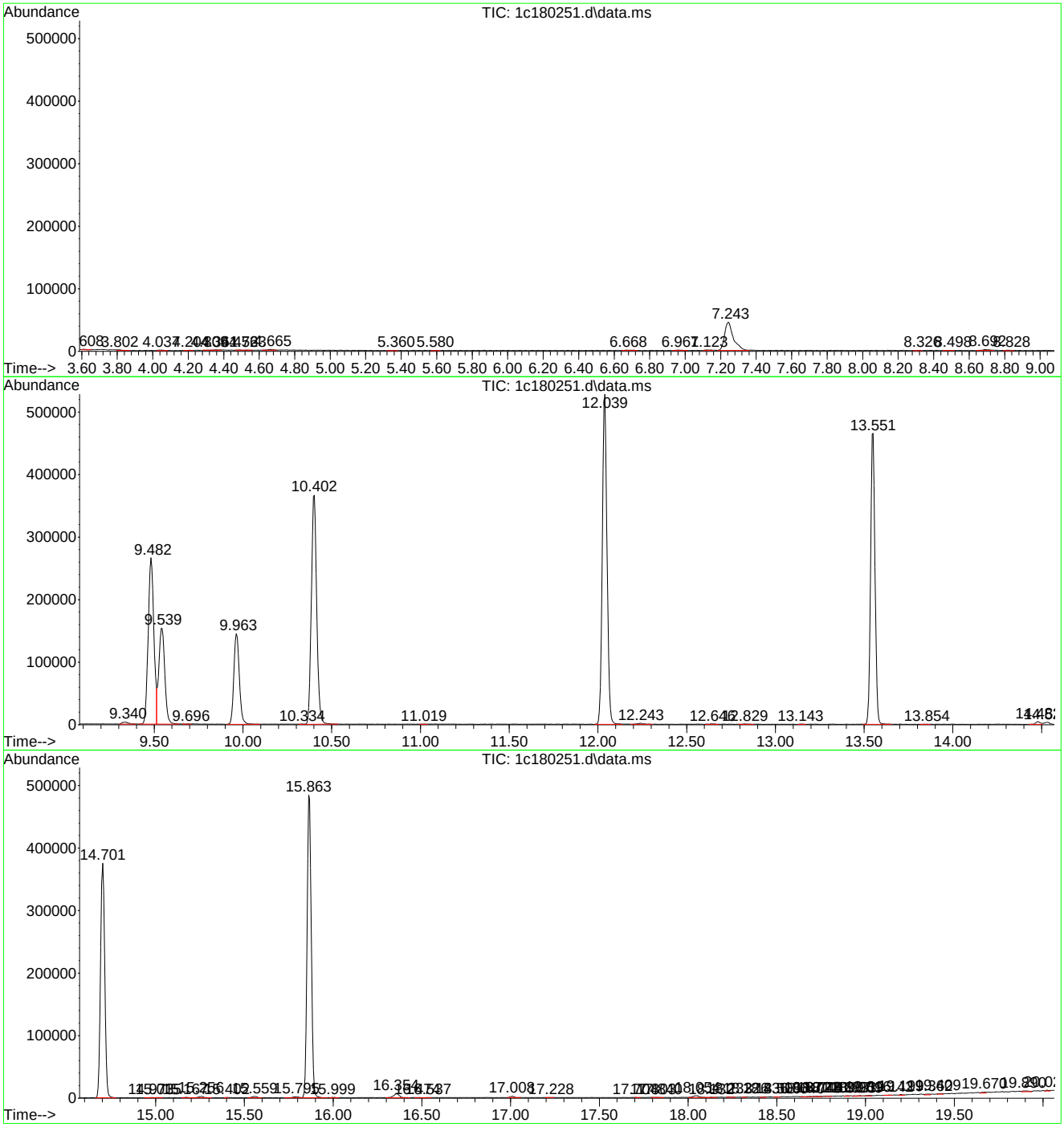
Sum of corrected areas: 5496213

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v1c7855\
Data File : 1c180251.d
Acq On : 18 Aug 2021 10:02 pm
Operator : PrashanS
Sample : JD29923-6
Misc : MS53008,V1C7855,4.4,,,,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p



Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v1c7855\
Data File : 1c180251.d
Acq On : 18 Aug 2021 10:02 pm
Operator : PrashanS
Sample : JD29923-6
Misc : MS53008,V1C7855,4.4,,,,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\2021\august 2021\08202021\v1c7856\
Data File : 1c180261.d
Acq On : 19 Aug 2021 12:55 pm
Operator : PrashanS
Sample : JD29923-7 Inst : GCMS1C
Misc : MS53008,V1C7856,5.7,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 20 02:03:13 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

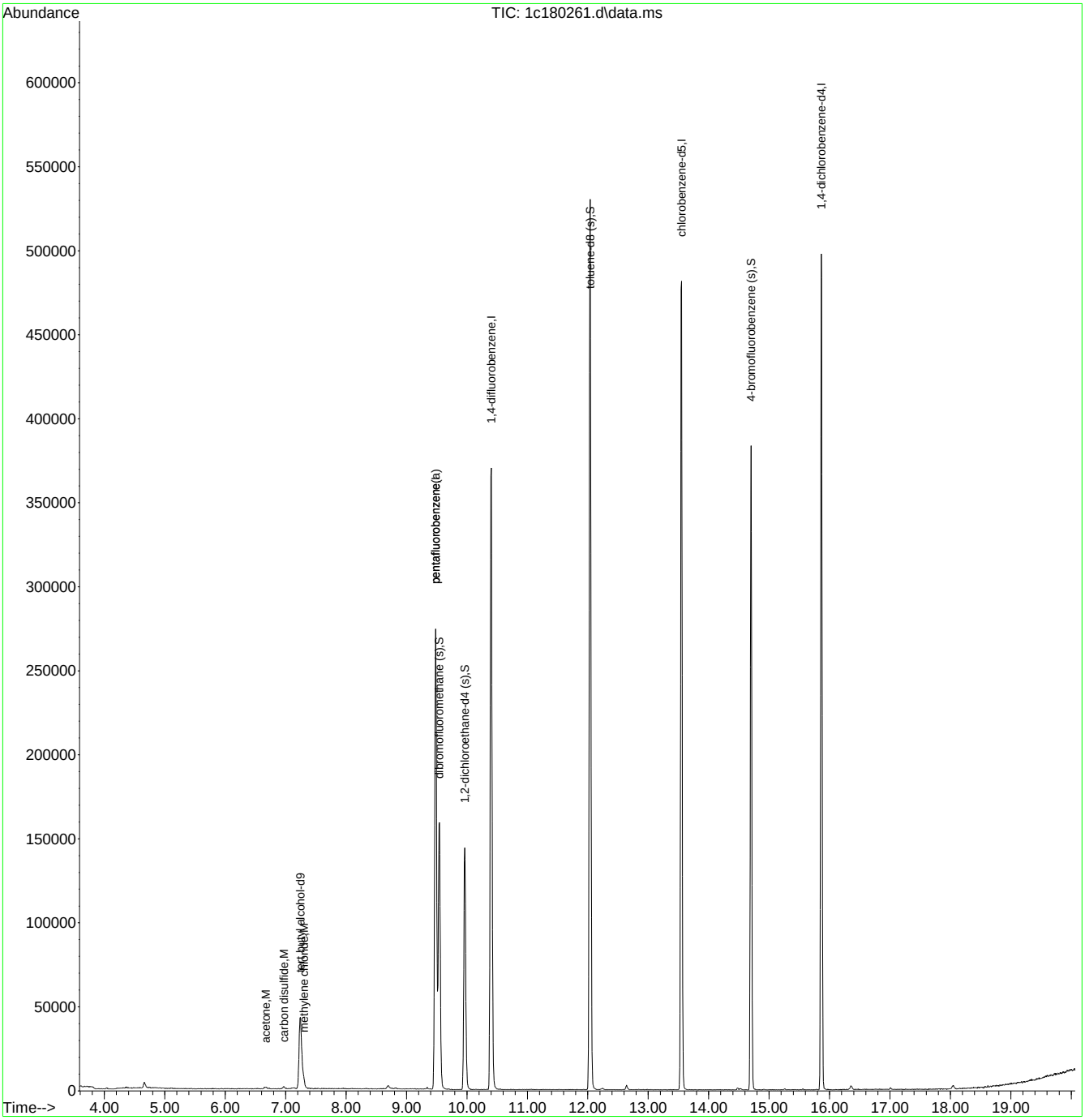
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.243	65	80892	500.00	ug/L	0.00
5) pentafluorobenzene	9.482	168	230067	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.402	114	347834	50.00	ug/L	0.00
73) chlorobenzene-d5	13.551	117	282350	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.863	152	132248	50.00	ug/L	0.00
125) pentafluorobenzene(a)	9.482	168	230067	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.539	113	111479	53.04	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 106.08%			
52) 1,2-dichloroethane-d4 (s)	9.963	65	112267	56.22	ug/L	0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 112.44%			
74) toluene-d8 (s)	12.039	98	387444	52.02	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 104.04%			
97) 4-bromofluorobenzene (s)	14.702	95	128517	49.89	ug/L	0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 99.78%			
Target Compounds						Qvalue
18) acetone	6.668	43	2268	4.11	ug/L	97
21) carbon disulfide	6.971	76	2243	0.38	ug/L	91
22) methylene chloride	7.301	84	2201	1.14	ug/L	96

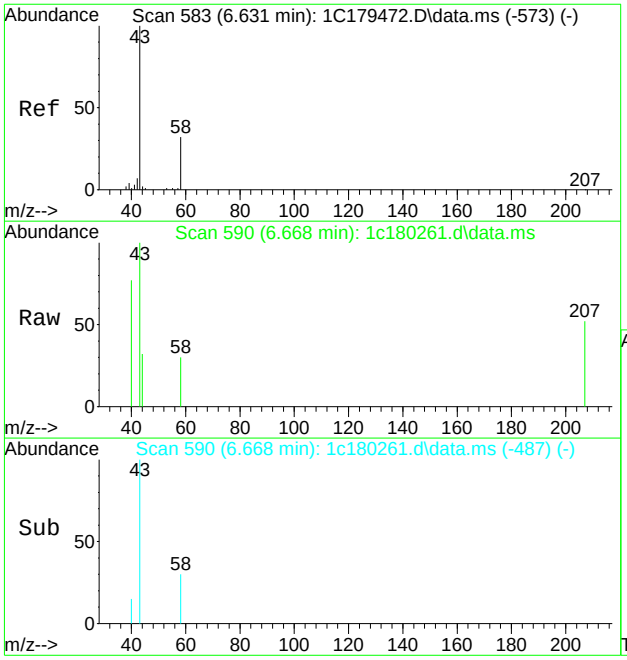
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\2021\august 2021\08202021\v1c7856\
Data File : 1c180261.d
Acq On : 19 Aug 2021 12:55 pm
Operator : PrashanS
Sample : JD29923-7 Inst : GCMS1C
Misc : MS53008,V1C7856,5.7,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 20 02:03:13 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

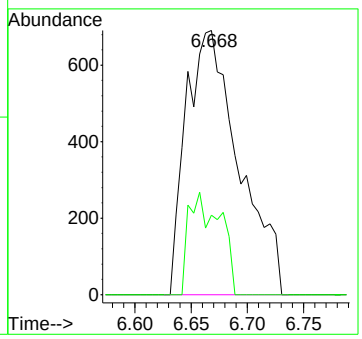


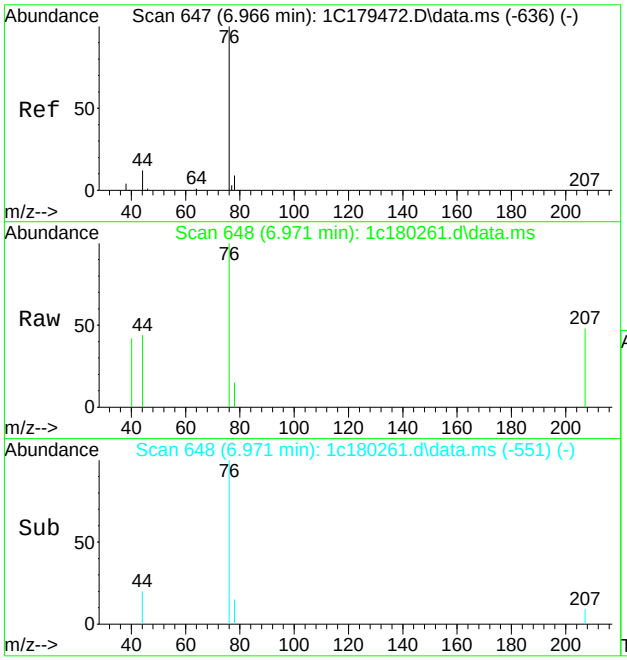


#18
acetone
Concen: 4.11 ug/L
RT: 6.668 min Scan# 590
Delta R.T. 0.037 min
Lab File: 1c180261.d
Acq: 19 Aug 2021 12:55 pm

Tgt Ion: 43 Resp: 2268

Ion	Ratio	Lower	Upper
43	100		
58	30.1	2.0	62.0

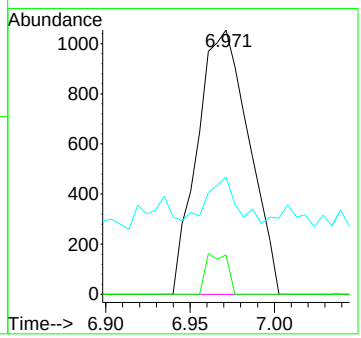


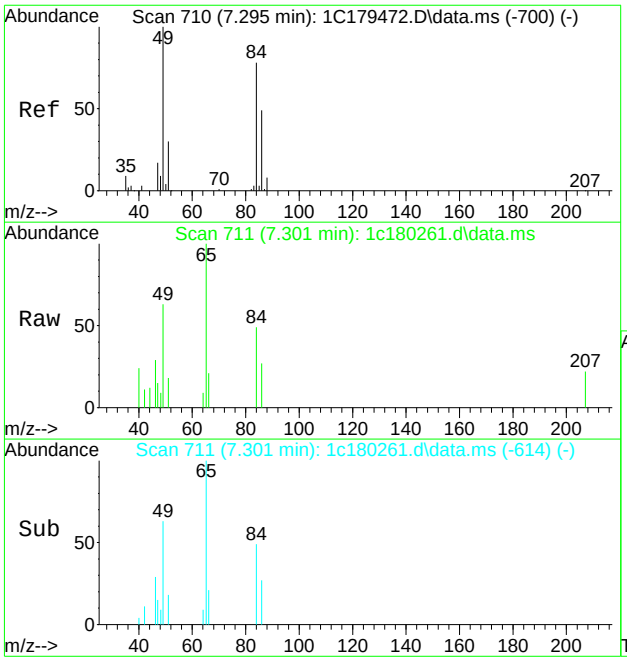


#21
carbon disulfide
Concen: 0.38 ug/L
RT: 6.971 min Scan# 648
Delta R.T. 0.005 min
Lab File: 1c180261.d
Acq: 19 Aug 2021 12:55 pm

Tgt Ion: 76 Resp: 2243

Ion	Ratio	Lower	Upper
76	100		
78	15.0	0.0	39.2
44	10.5	0.0	41.7

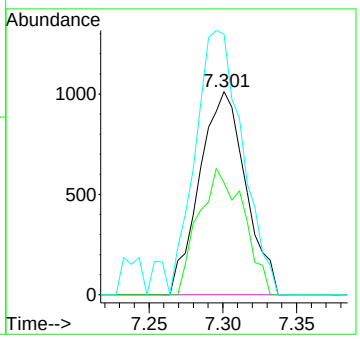




#22
methylene chloride
Concen: 1.14 ug/L
RT: 7.301 min Scan# 711
Delta R.T. 0.005 min
Lab File: 1c180261.d
Acq: 19 Aug 2021 12:55 pm

Tgt Ion: 84 Resp: 2201

Ion	Ratio	Lower	Upper
84	100		
86	55.1	32.9	92.9
49	128.3	99.1	159.1



LSC Area Percent Report

Data Path : C:\msdchem\1\data\kristelv\2021\august 2021\08202021\v1c7856\
Data File : 1c180261.d
Acq On : 19 Aug 2021 12:55 pm
Operator : PrashanS
Sample : JD29923-7
Misc : MS53008,V1C7856,5.7,,,,1
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

Signal : TIC: 1c180261.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.608	3	5	12	rVB4	714	1002	0.10%	0.018%
2	3.713	23	25	30	rVB2	561	612	0.06%	0.011%
3	4.042	81	88	93	rVB3	734	1204	0.12%	0.022%
4	4.199	114	118	120	rBV3	468	521	0.05%	0.009%
5	4.372	145	151	154	rBV4	878	1285	0.13%	0.023%
6	4.492	169	174	178	rBV3	447	706	0.07%	0.013%
7	4.660	197	206	217	rVV2	3486	8088	0.81%	0.146%
8	4.911	252	254	262	rVV3	383	660	0.07%	0.012%
9	4.979	262	267	273	rVB3	390	784	0.08%	0.014%
10	5.794	419	423	426	rBV2	478	555	0.06%	0.010%
11	5.936	448	450	456	rVB2	366	529	0.05%	0.010%
12	6.103	481	482	490	rBV2	426	762	0.08%	0.014%
13	6.647	579	586	590	rBV3	1095	2007	0.20%	0.036%
14	6.731	597	602	610	rVB2	555	970	0.10%	0.018%
15	6.971	640	648	654	rBV2	1360	2614	0.26%	0.047%
16	7.113	669	675	679	rBV3	520	1110	0.11%	0.020%
17	7.139	679	680	685	rVV3	680	785	0.08%	0.014%
18	7.243	686	700	724	rVV2	42538	145625	14.58%	2.630%
19	7.390	724	728	731	rVB3	498	657	0.07%	0.012%
20	7.531	752	755	763	rVB2	352	523	0.05%	0.009%
21	7.960	834	837	842	rVB2	590	507	0.05%	0.009%
22	8.519	943	944	951	rBV3	306	520	0.05%	0.009%
23	8.614	958	962	966	rBV2	443	565	0.06%	0.010%
24	8.697	970	978	988	rVV3	2063	6029	0.60%	0.109%
25	8.760	988	990	995	rVV2	670	752	0.08%	0.014%
26	8.833	995	1004	1006	rVB4	722	1341	0.13%	0.024%
27	9.346	1095	1102	1109	rVB2	1075	1455	0.15%	0.026%
28	9.482	1116	1128	1134	rBV	274035	616320	61.71%	11.131%
29	9.545	1134	1140	1165	rVB	158825	364549	36.50%	6.584%
30	9.963	1209	1220	1244	rVB	144076	310972	31.13%	5.616%
31	10.402	1294	1304	1327	rBV	369946	776696	77.76%	14.027%
32	12.039	1604	1617	1639	rBV	530086	998789	100.00%	18.038%
33	12.249	1647	1657	1664	rVB2	952	2377	0.24%	0.043%
34	12.641	1726	1732	1743	rVB2	2806	5291	0.53%	0.096%
35	13.551	1892	1906	1926	rBV	481301	823745	82.47%	14.877%
36	14.403	2063	2069	2074	rBV2	230	544	0.05%	0.010%
37	14.482	2078	2084	2087	rVV4	1100	1897	0.19%	0.034%
38	14.519	2090	2091	2102	rVB3	856	1531	0.15%	0.028%
39	14.702	2117	2126	2145	rBV	383389	619346	62.01%	11.185%
40	15.261	2226	2233	2238	rBV3	708	1175	0.12%	0.021%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\kristelv\2021\august 2021\08202021\v1c7856\
Data File : 1c180261.d
Acq On : 19 Aug 2021 12:55 pm
Operator : PrashanS
Sample : JD29923-7
Misc : MS53008,V1C7856,5.7,,,,1
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

41	15.554	2286	2289	2293	rVB3	624	691	0.07%	0.012%
42	15.784	2327	2333	2339	rVB3	368	767	0.08%	0.014%
43	15.863	2339	2348	2366	rBV	497713	794197	79.52%	14.343%
44	16.354	2431	2442	2453	rBV	2473	6443	0.65%	0.116%
45	17.008	2561	2567	2577	rVB3	1115	1557	0.16%	0.028%
46	17.578	2672	2676	2683	rVB2	557	917	0.09%	0.017%
47	17.808	2715	2720	2724	rVB4	537	1036	0.10%	0.019%
48	17.834	2724	2725	2728	rBV	530	508	0.05%	0.009%
49	17.918	2738	2741	2745	rVB3	574	915	0.09%	0.017%
50	17.976	2745	2752	2754	rBV2	610	1204	0.12%	0.022%
51	18.049	2754	2766	2773	rVV2	2246	5881	0.59%	0.106%
52	18.352	2823	2824	2827	rBV2	537	510	0.05%	0.009%
53	18.420	2833	2837	2842	rVB4	566	1014	0.10%	0.018%
54	18.462	2842	2845	2848	rBV4	951	1151	0.12%	0.021%
55	18.567	2862	2865	2866	rBV2	1210	1046	0.10%	0.019%
56	18.619	2872	2875	2879	rBV3	1097	955	0.10%	0.017%
57	18.661	2880	2883	2886	rVV5	653	801	0.08%	0.014%
58	18.697	2886	2890	2891	rBV2	746	760	0.08%	0.014%
59	18.708	2891	2892	2896	rVV4	606	795	0.08%	0.014%
60	18.760	2900	2902	2905	rVV3	812	717	0.07%	0.013%
61	18.818	2911	2913	2916	rVB3	795	568	0.06%	0.010%
62	18.854	2916	2920	2921	rBV4	814	691	0.07%	0.012%
63	18.990	2941	2946	2949	rBV3	1069	1374	0.14%	0.025%
64	19.011	2949	2950	2953	rBV3	904	618	0.06%	0.011%
65	19.048	2953	2957	2958	rBV3	698	771	0.08%	0.014%
66	19.105	2965	2968	2969	rBV3	885	708	0.07%	0.013%
67	19.210	2984	2988	2989	rBV3	1094	1330	0.13%	0.024%
68	19.262	2994	2998	3001	rBV6	748	1201	0.12%	0.022%
69	19.288	3002	3003	3006	rBV3	770	687	0.07%	0.012%
70	19.435	3026	3031	3032	rBV4	1103	1337	0.13%	0.024%
71	19.576	3055	3058	3059	rBV3	741	614	0.06%	0.011%

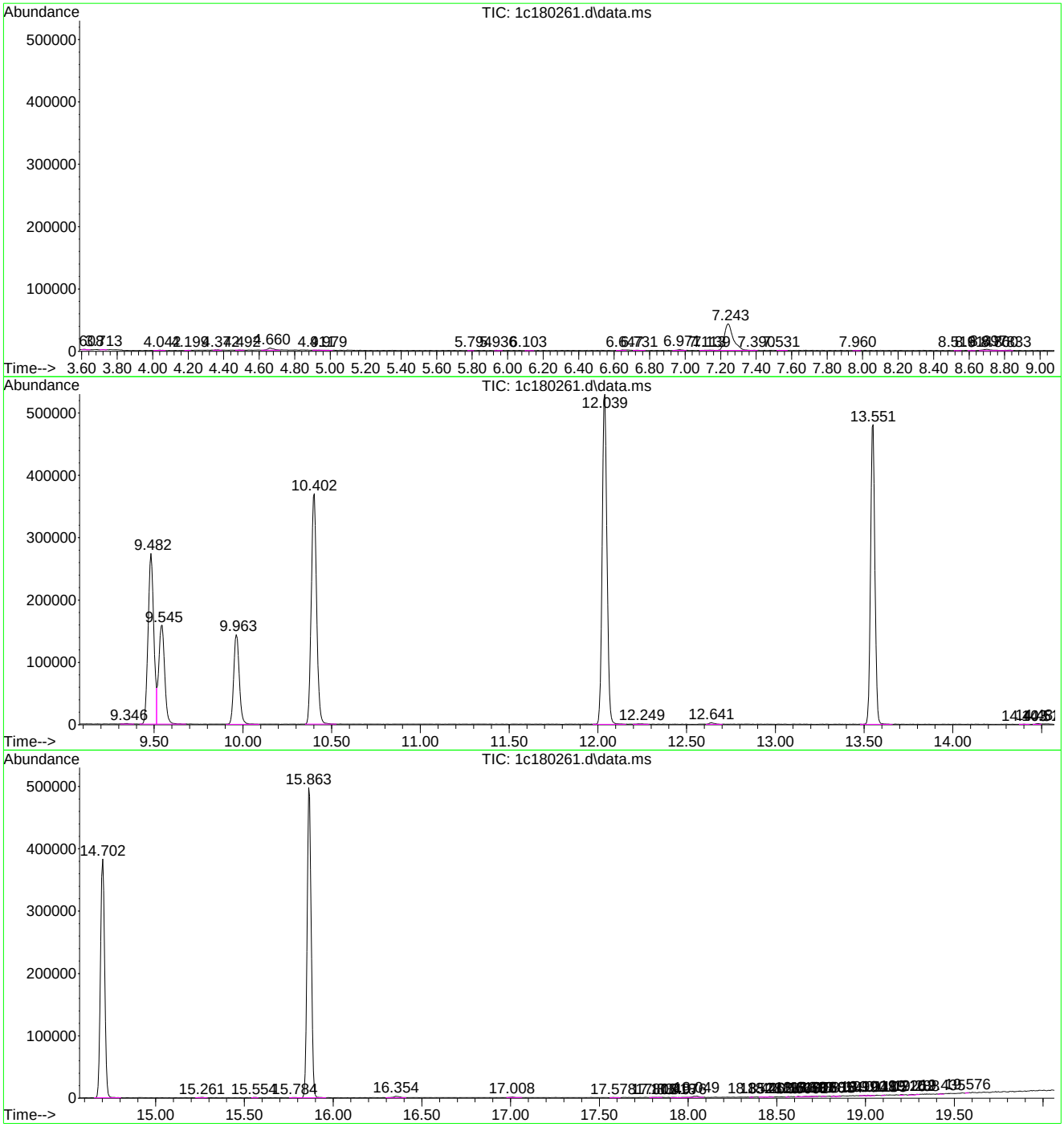
Sum of corrected areas: 5537164

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\data\kristelv\2021\august 2021\08202021\v1c7856\
Data File : 1c180261.d
Acq On : 19 Aug 2021 12:55 pm
Operator : PrashanS
Sample : JD29923-7
Misc : MS53008,V1C7856,5.7,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p



Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\data\kristelv\2021\august 2021\08202021\v1c7856\
Data File : 1c180261.d
Acq On : 19 Aug 2021 12:55 pm
Operator : PrashanS
Sample : JD29923-7
Misc : MS53008,V1C7856,5.7,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v3c7462\
Data File : 3c168633.d
Acq On : 19 Aug 2021 4:45 pm
Operator : PrashanS
Sample : JD29923-8 Inst : MS3C
Misc : MS53008,V3C7462,4.9,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Results File: M3C7415.RES
Quant Time: Aug 20 02:07:40 2021
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Mon Jun 28 17:56:55 2021
Response via : Initial Calibration

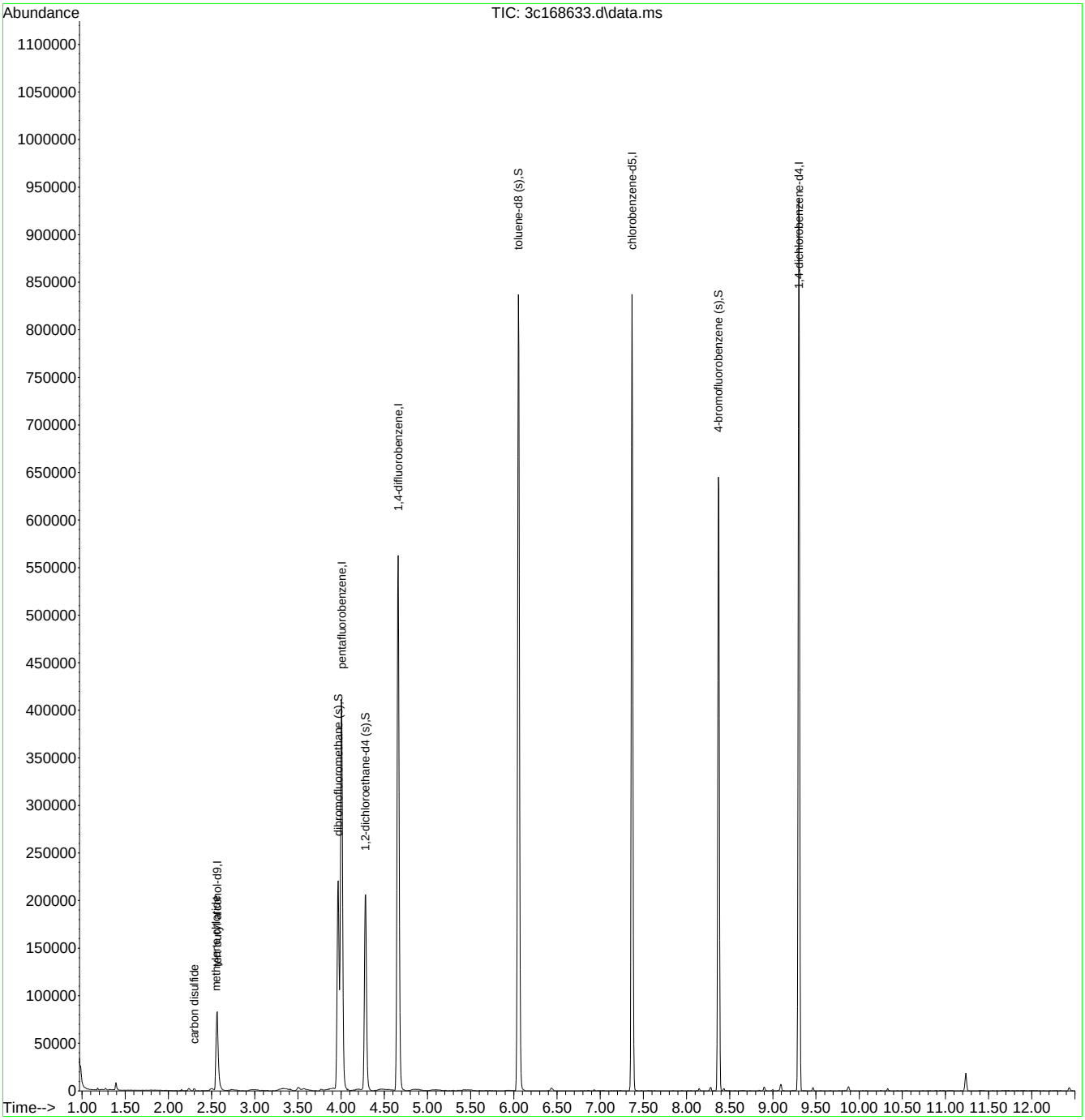
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	2.563	65	82619	500.00	ug/L	0.00
5) pentafluorobenzene	4.007	168	258708	50.00	ug/L	0.00
49) 1,4-difluorobenzene	4.661	114	406611	50.00	ug/L	0.00
71) chlorobenzene-d5	7.370	117	358522	50.00	ug/L	0.00
94) 1,4-dichlorobenzene-d4	9.300	152	181479	50.00	ug/L	0.00
System Monitoring Compounds						
42) dibromofluoromethane (s)	3.965	113	111427	50.04	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 100.08%			
50) 1,2-dichloroethane-d4 (s)	4.279	65	121260	50.29	ug/L	0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 100.58%			
72) toluene-d8 (s)	6.052	98	472068	49.87	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 99.74%			
95) 4-bromofluorobenzene (s)	8.369	95	171165	51.63	ug/L	0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 103.26%			
Target Compounds						Qvalue
20) carbon disulfide	2.297	76	2267	0.39	ug/L	82
21) methylene chloride	2.553	84	957	0.52	ug/L	91

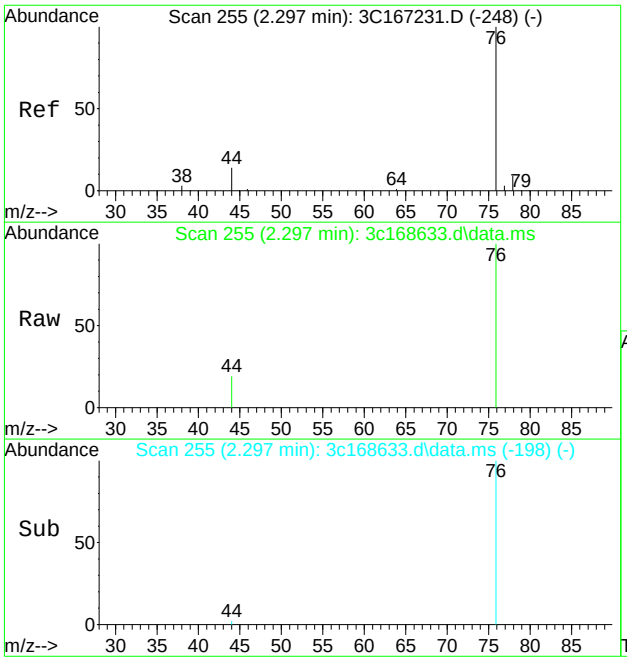
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v3c7462\
Data File : 3c168633.d
Acq On : 19 Aug 2021 4:45 pm
Operator : PrashanS
Sample : JD29923-8 Inst : MS3C
Misc : MS53008,V3C7462,4.9,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Results File: M3C7415.RES
Quant Time: Aug 20 02:07:40 2021
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Mon Jun 28 17:56:55 2021
Response via : Initial Calibration

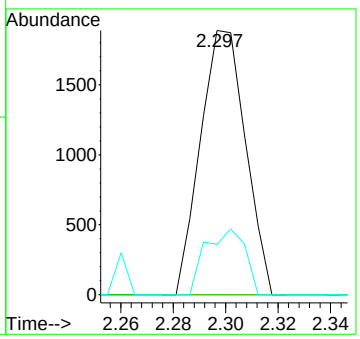


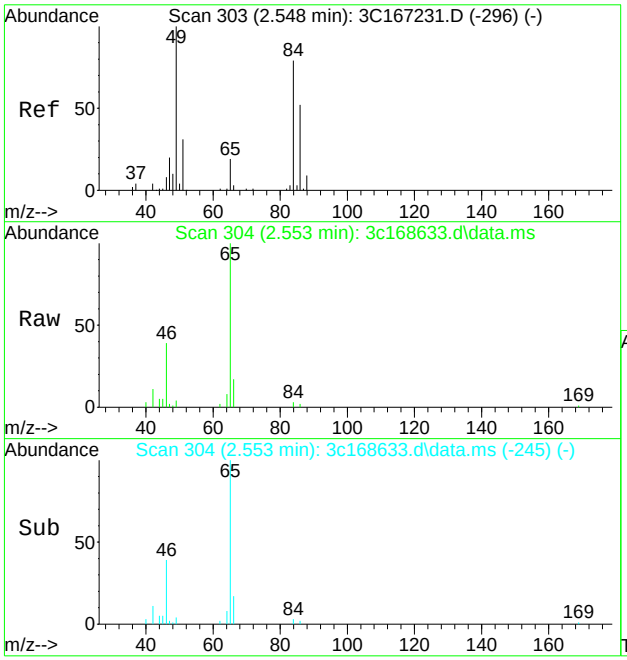


#20
carbon disulfide
Concen: 0.39 ug/L
RT: 2.297 min Scan# 255
Delta R.T. -0.000 min
Lab File: 3c168633.d
Acq: 19 Aug 2021 4:45 pm

Tgt Ion: 76 Resp: 2267

Ion	Ratio	Lower	Upper
76	100		
78	0.0	0.0	39.0
44	19.0	0.0	43.6

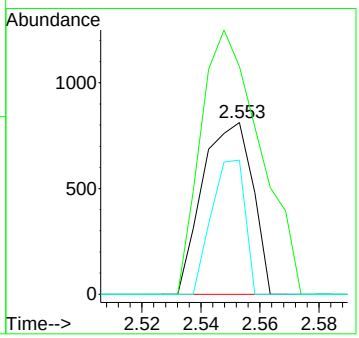




#21
methylene chloride
Concen: 0.52 ug/L
RT: 2.553 min Scan# 304
Delta R.T. 0.006 min
Lab File: 3c168633.d
Acq: 19 Aug 2021 4:45 pm

Tgt Ion: 84 Resp: 957

Ion	Ratio	Lower	Upper
84	100		
49	132.6	96.3	156.3
86	78.2	35.7	95.7



LSC Area Percent Report

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v3c7462\
Data File : 3c168633.d
Acq On : 19 Aug 2021 4:45 pm
Operator : PrashanS
Sample : JD29923-8
Misc : MS53008,V3C7462,4.9,,,,1
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.4 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um

Signal : TIC: 3c168633.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.177	37	41	45	rBV	1871	1290	0.10%	0.019%
2	1.219	45	49	55	rVV	801	973	0.08%	0.014%
3	1.272	55	59	63	rVV2	1836	1901	0.15%	0.028%
4	1.329	65	70	77	rVV	783	1759	0.14%	0.026%
5	1.392	77	82	97	rVB	8263	9690	0.78%	0.141%
6	1.481	97	99	103	rBV	244	271	0.02%	0.004%
7	1.523	105	107	109	rVV	244	156	0.01%	0.002%
8	1.544	109	111	113	rVB	416	158	0.01%	0.002%
9	1.695	137	140	143	rBV	425	428	0.03%	0.006%
10	1.795	149	159	167	rBV	472	1297	0.10%	0.019%
11	1.868	169	173	175	rVV	322	386	0.03%	0.006%
12	1.910	175	181	191	rVB	828	2639	0.21%	0.038%
13	1.972	191	193	197	rBB	769	794	0.06%	0.012%
14	2.020	197	202	205	rBB	400	731	0.06%	0.011%
15	2.046	205	207	215	rBB	364	328	0.03%	0.005%
16	2.150	219	227	237	rBB	1592	1324	0.11%	0.019%
17	2.239	239	244	249	rBB	2650	4061	0.33%	0.059%
18	2.302	251	256	261	rBB	2344	2958	0.24%	0.043%
19	2.417	275	278	281	rBB	341	205	0.02%	0.003%
20	2.501	281	294	299	rBV5	2591	7171	0.58%	0.104%
21	2.564	299	306	329	rVB	83250	160945	12.96%	2.335%
22	2.726	329	337	359	rBB2	1667	6818	0.55%	0.099%
23	2.966	373	383	401	rBB2	1440	8049	0.65%	0.117%
24	3.092	403	407	413	rBB	704	1254	0.10%	0.018%
25	3.149	413	418	421	rBB	638	614	0.05%	0.009%
26	3.327	433	452	465	rBV2	2772	16535	1.33%	0.240%
27	3.406	465	467	477	rVB3	2143	3202	0.26%	0.046%
28	3.500	477	485	493	rBV	3707	9520	0.77%	0.138%
29	3.573	493	499	521	rVB2	2544	9747	0.78%	0.141%
30	3.766	531	536	541	rBV2	1842	3106	0.25%	0.045%
31	4.002	545	581	601	rVB2	411578	1065213	85.78%	15.452%
32	4.143	601	608	611	rBV	1032	2096	0.17%	0.030%
33	4.206	611	620	623	rBV3	1573	4225	0.34%	0.061%
34	4.284	623	635	653	rVB	206383	349579	28.15%	5.071%
35	4.452	655	667	685	rBV2	2140	12932	1.04%	0.188%
36	4.556	685	687	697	rVB	737	1009	0.08%	0.015%
37	4.661	697	707	725	rVB	562855	915273	73.71%	13.277%
38	4.865	727	746	747	rBV2	1829	6801	0.55%	0.099%
39	5.105	771	792	795	rBV2	1253	6032	0.49%	0.087%
40	5.210	809	812	817	rBB	759	900	0.07%	0.013%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v3c7462\
Data File : 3c168633.d
Acq On : 19 Aug 2021 4:45 pm
Operator : PrashanS
Sample : JD29923-8
Misc : MS53008,V3C7462,4.9,,,,1
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.4 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um

41	5.299	821	829	833	rBB	688	872	0.07%	0.013%
42	5.377	835	844	847	rBV2	758	1919	0.15%	0.028%
43	5.419	847	852	857	rBV	992	1865	0.15%	0.027%
44	5.472	857	862	863	rBV	619	701	0.06%	0.010%
45	5.634	889	893	895	rBB	327	103	0.01%	0.001%
46	5.686	897	903	905	rBB	402	564	0.05%	0.008%
47	5.728	907	911	919	rBB	437	558	0.04%	0.008%
48	5.932	941	950	961	rBV	737	2568	0.21%	0.037%
49	6.052	961	973	991	rVB	837235	1241726	100.00%	18.012%
50	6.434	1035	1046	1055	rBB	2991	5442	0.44%	0.079%
51	6.816	1115	1119	1123	rBB	335	105	0.01%	0.002%
52	6.868	1125	1129	1133	rBB	675	550	0.04%	0.008%
53	6.936	1137	1142	1145	rBB	1176	979	0.08%	0.014%
54	7.046	1155	1163	1167	rBB	329	300	0.02%	0.004%
55	7.161	1183	1185	1189	rBB	333	105	0.01%	0.002%
56	7.192	1189	1191	1195	rBB	327	103	0.01%	0.001%
57	7.370	1217	1225	1237	rBB	837335	1065136	85.78%	15.451%
58	7.553	1257	1260	1265	rBB	313	292	0.02%	0.004%
59	7.590	1265	1267	1271	rBB	351	110	0.01%	0.002%
60	8.050	1353	1355	1359	rBB	336	105	0.01%	0.002%
61	8.149	1367	1374	1379	rBB	2592	2478	0.20%	0.036%
62	8.280	1393	1399	1405	rBB	3661	4335	0.35%	0.063%
63	8.369	1407	1416	1425	rBB	645167	799664	64.40%	11.600%
64	8.432	1425	1428	1437	rBB2	2467	3093	0.25%	0.045%
65	8.672	1465	1474	1477	rBB2	376	520	0.04%	0.008%
66	8.840	1501	1506	1509	rBB	903	640	0.05%	0.009%
67	8.897	1511	1517	1527	rBB	4209	4865	0.39%	0.071%
68	9.002	1531	1537	1541	rBB	1460	1282	0.10%	0.019%
69	9.091	1543	1554	1565	rBB	6864	9202	0.74%	0.133%
70	9.227	1575	1580	1583	rBB	452	380	0.03%	0.006%
71	9.300	1585	1594	1603	rBB	937175	1080457	87.01%	15.673%
72	9.467	1619	1626	1631	rBB	3404	3583	0.29%	0.052%
73	9.875	1697	1704	1711	rBB	4589	5960	0.48%	0.086%
74	10.330	1787	1791	1799	rBB	2570	2085	0.17%	0.030%
75	10.822	1881	1885	1889	rBB	342	107	0.01%	0.002%
76	10.895	1895	1899	1903	rBB	310	191	0.02%	0.003%
77	10.937	1905	1907	1911	rBB	322	197	0.02%	0.003%
78	10.984	1911	1916	1917	rBB	375	319	0.03%	0.005%
79	11.052	1925	1929	1933	rBB	615	492	0.04%	0.007%
80	11.084	1933	1935	1939	rBB	311	196	0.02%	0.003%
81	11.178	1949	1953	1955	rBB	345	108	0.01%	0.002%
82	11.235	1957	1964	1971	rBB	18784	23636	1.90%	0.343%
83	11.434	1995	2002	2003	rBB	362	406	0.03%	0.006%
84	11.659	2041	2045	2049	rBB	325	295	0.02%	0.004%
85	11.732	2055	2059	2063	rBB	612	310	0.02%	0.004%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v3c7462\
Data File : 3c168633.d
Acq On : 19 Aug 2021 4:45 pm
Operator : PrashanS
Sample : JD29923-8
Misc : MS53008,V3C7462,4.9,,,,1
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.4 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um

86	11.795	2065	2071	2075	rBB	327	201	0.02%	0.003%
87	11.826	2075	2077	2085	rBB	319	291	0.02%	0.004%
88	11.879	2085	2087	2089	rBB	344	213	0.02%	0.003%
89	11.910	2091	2093	2097	rBB	715	320	0.03%	0.005%
90	11.973	2101	2105	2107	rBB	345	108	0.01%	0.002%
91	11.994	2107	2109	2113	rBB	303	190	0.02%	0.003%
92	12.062	2113	2122	2123	rBB	342	416	0.03%	0.006%
93	12.213	2147	2151	2155	rBB	337	106	0.01%	0.002%
94	12.245	2155	2157	2159	rBB	327	103	0.01%	0.001%
95	12.266	2159	2161	2169	rBB	384	315	0.03%	0.005%
96	12.328	2171	2173	2177	rBB	303	190	0.02%	0.003%

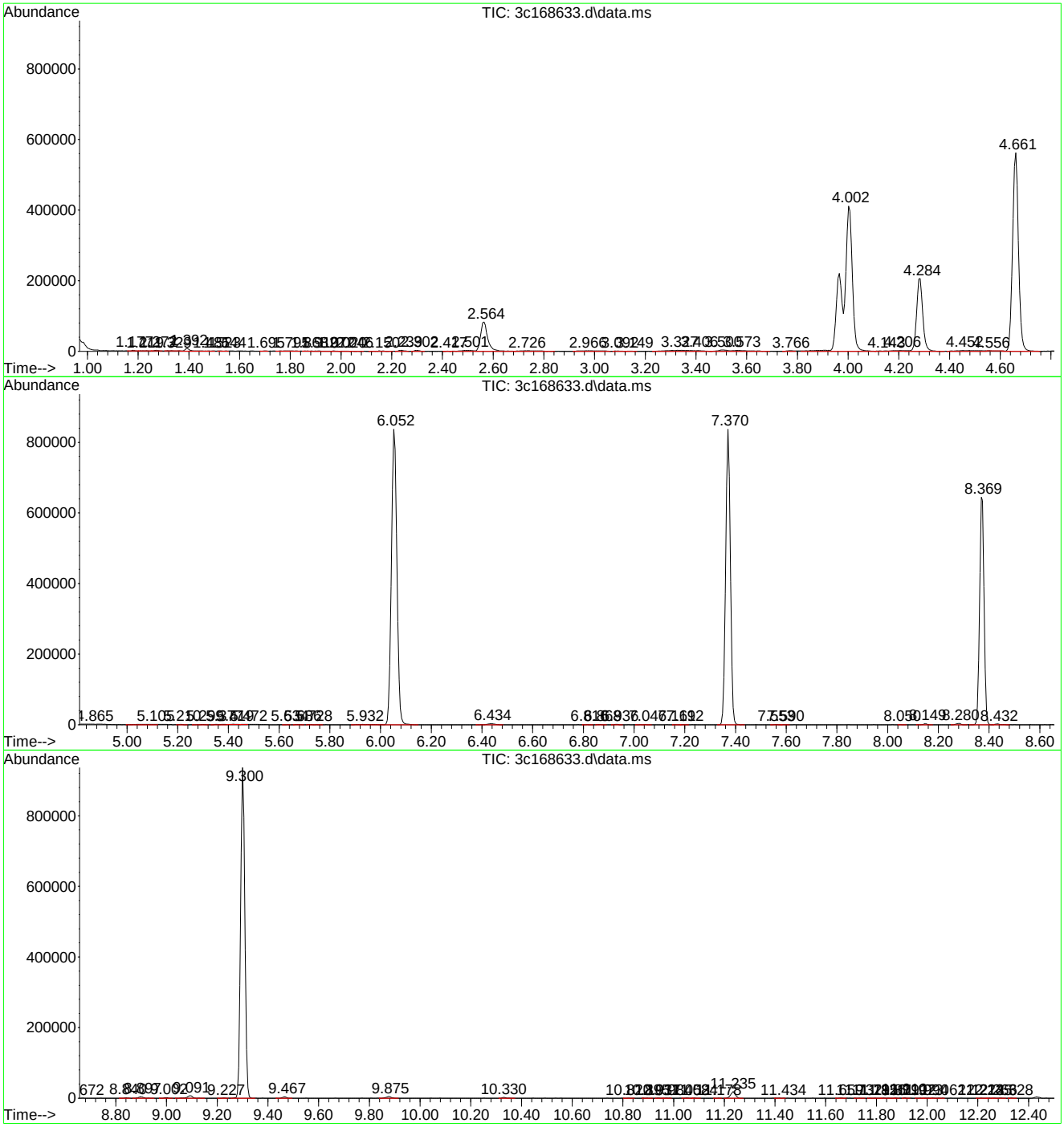
Sum of corrected areas: 6893727

LSC Report - Integrated Chromatogram

```
Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v3c7462\
Data File : 3c168633.d
Acq On    : 19 Aug 2021   4:45 pm
Operator  : PrashanS
Sample    : JD29923-8
Misc      : MS53008,V3C7462,4.9,,,,1
ALS Vial  : 16   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title  : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um

TIC Library   : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p
```



Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v3c7462\
Data File : 3c168633.d
Acq On : 19 Aug 2021 4:45 pm
Operator : PrashanS
Sample : JD29923-8
Misc : MS53008,V3C7462,4.9,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

No Library Search Compounds Detected
****

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\kenrickb\voa\08-20-2021\v4d4985\
Data File : 4d111927.d
Acq On : 19 Aug 2021 5:44 pm
Operator : jons2
Sample : jd29923-9 Inst : MS4D
Misc : MS53003,V4D4985,5,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Results File: M4D4892.RES
Quant Time: Aug 20 03:41:04 2021
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:43:19 2021
Response via : Initial Calibration

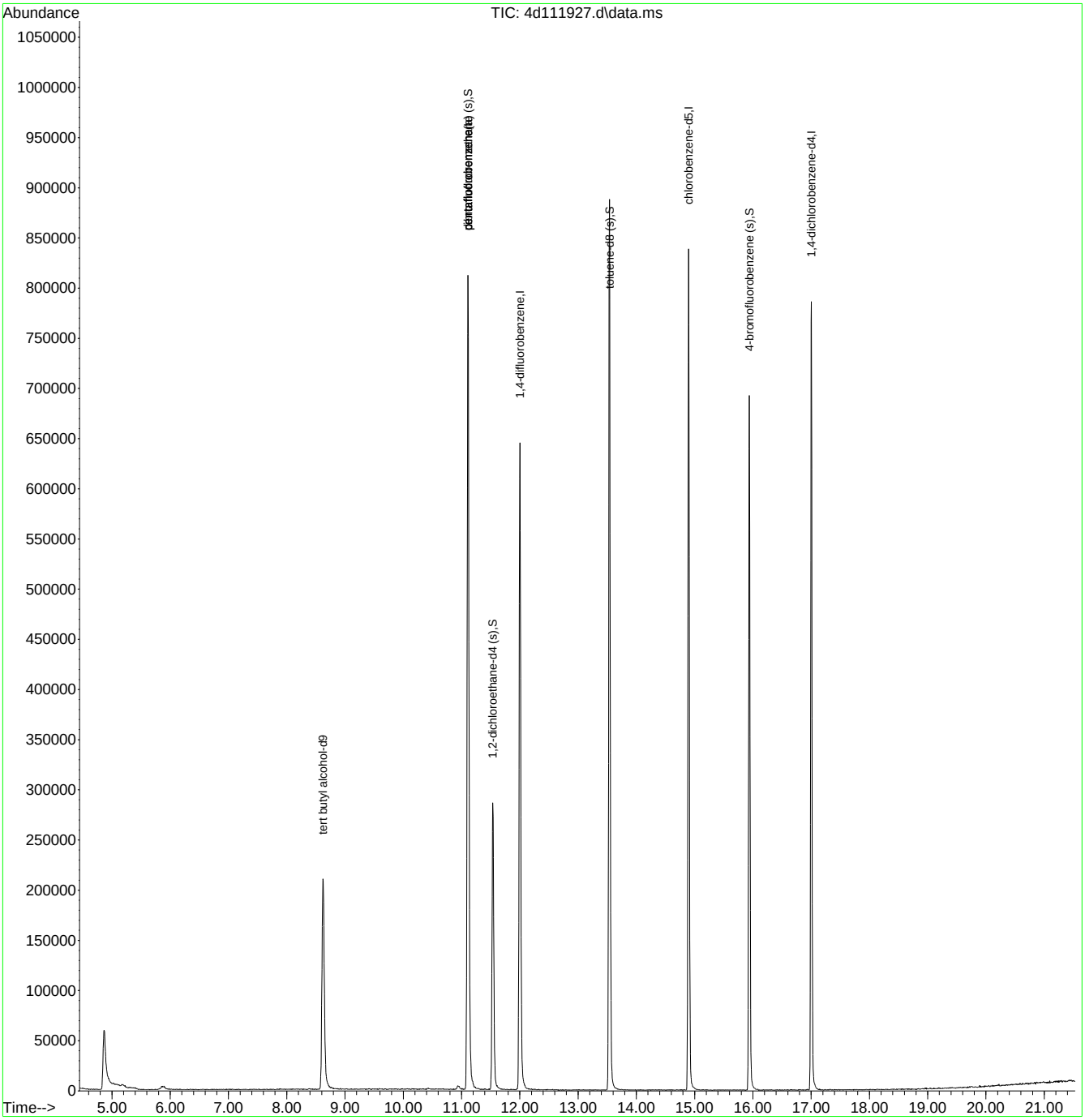
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.621	65	333479	500.00	ug/L	-0.01
5) pentafluorobenzene	11.111	168	394462	50.00	ug/L	0.00
52) 1,4-difluorobenzene	12.003	114	534680	50.00	ug/L	0.00
74) chlorobenzene-d5	14.897	117	430618	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.004	152	191354	50.00	ug/L	0.00
126) pentafluorobenzene(a)	11.111	168	394462	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	11.111	113	191520	51.41	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.82%			
53) 1,2-dichloroethane-d4 (s)	11.536	65	234419	59.76	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 119.52%			
75) toluene-d8 (s)	13.539	98	575232	48.78	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.56%			
98) 4-bromofluorobenzene (s)	15.940	95	198509	47.49	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 94.98%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\kenrickb\voa\08-20-2021\v4d4985\
Data File : 4d111927.d
Acq On : 19 Aug 2021 5:44 pm
Operator : jons2
Sample : jd29923-9 Inst : MS4D
Misc : MS53003,V4D4985,5,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Results File: M4D4892.RES
Quant Time: Aug 20 03:41:04 2021
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:43:19 2021
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\data\kenrickb\voa\08-20-2021\v4d4985\
Data File : 4d111927.d
Acq On : 19 Aug 2021 5:44 pm
Operator : jons2
Sample : jd29923-9
Misc : MS53003,V4D4985,5,,,,1
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 150 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.6 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um

Signal : TIC: 4d111927.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.573	25	26	31	rVB2	810	893	0.05%	0.009%
2	4.867	71	82	109	rBV	59079	236549	13.41%	2.414%
3	5.171	137	140	142	rBV3	1300	1433	0.08%	0.015%
4	5.821	255	264	265	rBV2	1446	2074	0.12%	0.021%
5	5.853	265	270	272	rVV4	3023	3875	0.22%	0.040%
6	5.894	275	278	284	rVB5	2890	4767	0.27%	0.049%
7	6.020	297	302	306	rVB3	554	826	0.05%	0.008%
8	6.167	328	330	335	rBV2	852	1137	0.06%	0.012%
9	6.298	348	355	357	rBV2	655	1078	0.06%	0.011%
10	6.345	361	364	368	rVV3	653	911	0.05%	0.009%
11	6.434	378	381	388	rVB3	666	1160	0.07%	0.012%
12	6.707	426	433	435	rVB3	586	898	0.05%	0.009%
13	6.849	453	460	464	rBV3	524	1150	0.07%	0.012%
14	7.058	497	500	503	rBV2	680	849	0.05%	0.009%
15	7.714	620	625	627	rBV2	788	1106	0.06%	0.011%
16	7.771	633	636	640	rVB3	670	902	0.05%	0.009%
17	8.243	722	726	732	rBV2	674	1267	0.07%	0.013%
18	8.395	745	755	759	rBV3	1474	3468	0.20%	0.035%
19	8.500	772	775	777	rVB2	1089	901	0.05%	0.009%
20	8.521	777	779	782	rBV3	807	886	0.05%	0.009%
21	8.621	786	798	824	rVV2	209861	604266	34.25%	6.166%
22	8.762	824	825	832	rVB3	1858	2607	0.15%	0.027%
23	8.962	860	863	866	rBV	833	916	0.05%	0.009%
24	9.418	945	950	953	rVB2	1019	1149	0.07%	0.012%
25	9.470	958	960	964	rBV2	823	1006	0.06%	0.010%
26	9.528	969	971	976	rVB2	880	1346	0.08%	0.014%
27	9.591	980	983	991	rBV3	1153	2353	0.13%	0.024%
28	9.916	1042	1045	1050	rBV3	620	848	0.05%	0.009%
29	10.152	1086	1090	1092	rBV2	1071	890	0.05%	0.009%
30	10.335	1123	1125	1130	rVV2	860	1059	0.06%	0.011%
31	10.430	1137	1143	1154	rBV4	1621	3830	0.22%	0.039%
32	10.566	1168	1169	1176	rVV3	714	834	0.05%	0.009%
33	10.760	1200	1206	1212	rVB4	565	1198	0.07%	0.012%
34	10.938	1232	1240	1252	rVB7	3786	11158	0.63%	0.114%
35	11.111	1263	1273	1304	rBV	811313	1764209	100.00%	18.002%
36	11.290	1304	1307	1316	rVB3	1515	2610	0.15%	0.027%
37	11.536	1344	1354	1380	rBV	285932	610501	34.60%	6.230%
38	12.003	1429	1443	1468	rVV	644682	1254363	71.10%	12.800%
39	12.322	1501	1504	1508	rBV2	907	975	0.06%	0.010%
40	12.354	1508	1510	1519	rBV3	489	1023	0.06%	0.010%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\kenrickb\voa\08-20-2021\v4d4985\
Data File : 4d111927.d
Acq On : 19 Aug 2021 5:44 pm
Operator : jons2
Sample : jd29923-9
Misc : MS53003,V4D4985,5,,,,1
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 150 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.6 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um

41	12.474	1529	1533	1536	rBV3	1032	1274	0.07%	0.013%
42	13.350	1697	1700	1707	rVB2	492	906	0.05%	0.009%
43	13.539	1725	1736	1763	rBV	887740	1551171	87.92%	15.828%
44	13.848	1793	1795	1800	rVB2	693	817	0.05%	0.008%
45	14.236	1866	1869	1871	rVB2	814	887	0.05%	0.009%
46	14.430	1901	1906	1908	rVB2	593	878	0.05%	0.009%
47	14.488	1914	1917	1921	rVB2	604	858	0.05%	0.009%
48	14.829	1977	1982	1984	rBV2	694	806	0.05%	0.008%
49	14.897	1984	1995	2022	rBV	838478	1359771	77.08%	13.875%
50	15.211	2052	2055	2062	rVV3	700	1012	0.06%	0.010%
51	15.279	2062	2068	2073	rVB2	639	1066	0.06%	0.011%
52	15.940	2185	2194	2219	rVV	692675	1072859	60.81%	10.947%
53	16.087	2219	2222	2224	rVB2	1278	1348	0.08%	0.014%
54	16.805	2355	2359	2363	rBV3	887	1235	0.07%	0.013%
55	16.936	2379	2384	2386	rBV3	1045	1288	0.07%	0.013%
56	17.004	2386	2397	2420	rVV	785862	1211385	68.66%	12.361%
57	17.240	2437	2442	2445	rBV3	962	1098	0.06%	0.011%
58	17.476	2482	2487	2490	rVB4	900	1115	0.06%	0.011%
59	17.744	2535	2538	2540	rBV2	922	1089	0.06%	0.011%
60	17.786	2544	2546	2552	rVB4	550	831	0.05%	0.008%
61	18.273	2636	2639	2644	rBV2	613	1102	0.06%	0.011%
62	18.368	2651	2657	2659	rBV3	671	1057	0.06%	0.011%
63	18.509	2679	2684	2687	rBV4	650	962	0.05%	0.010%
64	18.630	2705	2707	2712	rVB3	822	883	0.05%	0.009%
65	18.740	2724	2728	2730	rBV3	789	1151	0.07%	0.012%
66	18.840	2745	2747	2753	rVB4	1022	999	0.06%	0.010%
67	18.913	2753	2761	2766	rBV4	1018	2115	0.12%	0.022%
68	18.950	2766	2768	2770	rVV2	1363	1155	0.07%	0.012%
69	18.976	2770	2773	2774	rVB2	1572	1178	0.07%	0.012%
70	19.054	2780	2788	2790	rBV5	1191	1923	0.11%	0.020%
71	19.186	2808	2813	2817	rBV4	1322	1918	0.11%	0.020%
72	19.369	2845	2848	2850	rBV3	967	802	0.05%	0.008%
73	19.505	2870	2874	2876	rBV3	934	1205	0.07%	0.012%
74	19.642	2897	2900	2903	rVV4	741	918	0.05%	0.009%
75	19.720	2911	2915	2916	rBV2	1290	851	0.05%	0.009%
76	19.752	2917	2921	2926	rVB4	1039	2089	0.12%	0.021%
77	19.820	2930	2934	2940	rBV4	998	2034	0.12%	0.021%
78	19.893	2944	2948	2950	rBV5	1837	1100	0.06%	0.011%
79	19.972	2962	2963	2965	rBV2	1678	947	0.05%	0.010%
80	19.988	2965	2966	2968	rVV2	1341	892	0.05%	0.009%
81	20.040	2972	2976	2982	rVB8	1251	2264	0.13%	0.023%
82	20.082	2982	2984	2987	rBV3	1106	1195	0.07%	0.012%
83	20.108	2987	2989	2991	rVB3	1622	931	0.05%	0.009%
84	20.224	3009	3011	3017	rVB4	1978	1694	0.10%	0.017%
85	20.266	3017	3019	3021	rBV3	1278	1147	0.07%	0.012%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\kenrickb\voa\08-20-2021\v4d4985\
Data File : 4d111927.d
Acq On : 19 Aug 2021 5:44 pm
Operator : jons2
Sample : jd29923-9
Misc : MS53003,V4D4985,5,,,,1
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 150 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.6 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um

86	20.355	3032	3036	3039	rBV4	1180	1446	0.08%	0.015%
87	20.381	3039	3041	3043	rBV3	971	836	0.05%	0.009%
88	20.475	3056	3059	3061	rBV4	1109	1042	0.06%	0.011%
89	20.549	3072	3073	3076	rVB2	1268	836	0.05%	0.009%
90	20.585	3078	3080	3084	rVB5	1408	1441	0.08%	0.015%
91	20.622	3084	3087	3090	rBV3	1787	1381	0.08%	0.014%
92	20.685	3095	3099	3100	rBV4	1553	1190	0.07%	0.012%
93	20.732	3107	3108	3112	rBV4	1322	1285	0.07%	0.013%
94	20.769	3112	3115	3117	rBV4	1861	1884	0.11%	0.019%
95	20.879	3132	3136	3138	rBV4	2289	3463	0.20%	0.035%
96	21.094	3176	3177	3179	rBV2	2500	1358	0.08%	0.014%
97	21.272	3209	3211	3213	rVB2	1374	1026	0.06%	0.010%
98	21.298	3214	3216	3219	rVB4	1971	1421	0.08%	0.014%
99	21.340	3219	3224	3228	rBV7	1431	2760	0.16%	0.028%
100	21.367	3228	3229	3234	rBV4	1284	1209	0.07%	0.012%

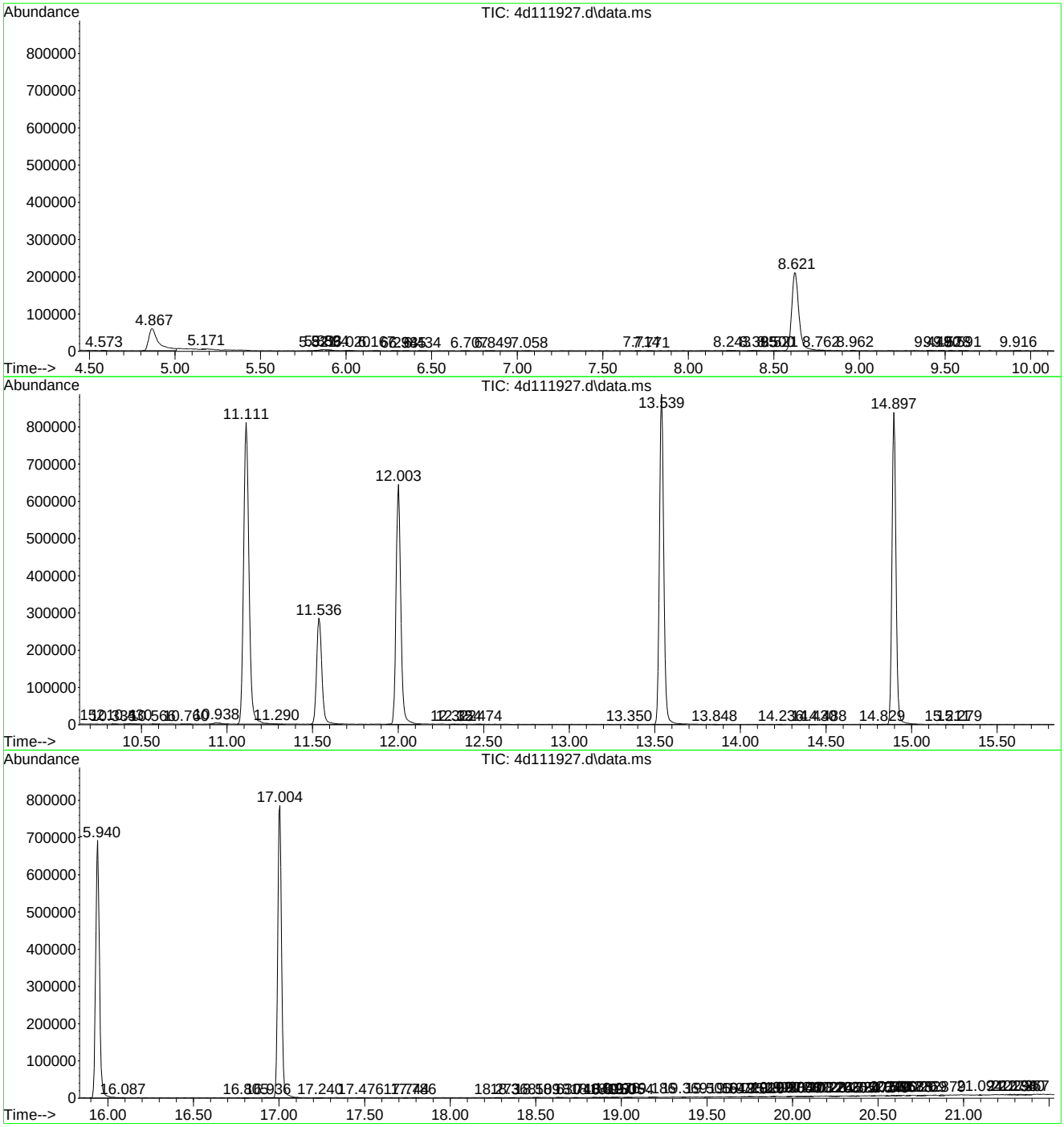
Sum of corrected areas: 9800055

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\data\kenrickb\voa\08-20-2021\v4d4985\
Data File : 4d111927.d
Acq On : 19 Aug 2021 5:44 pm
Operator : jons2
Sample : jd29923-9
Misc : MS53003,V4D4985,5,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : C:\msdchem\1\data\kenrickb\voa\08-20-2021\v4d4985\
Data File : 4d111927.d
Acq On : 19 Aug 2021 5:44 pm
Operator : jons2
Sample : jd29923-9
Misc : MS53003,V4D4985,5,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um

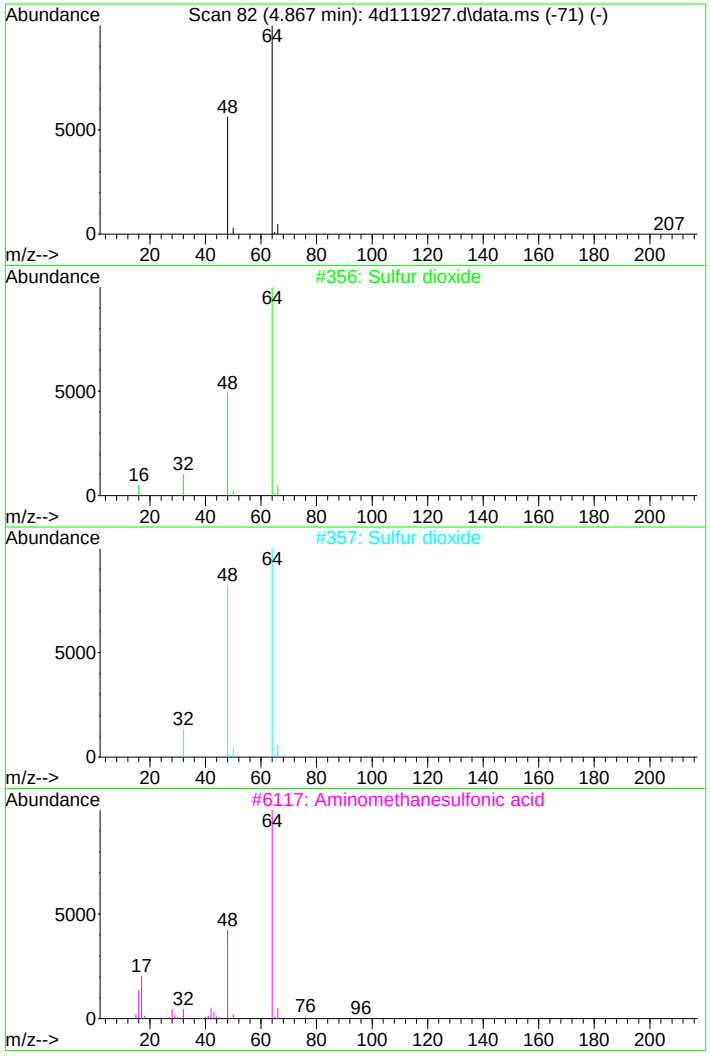
TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p

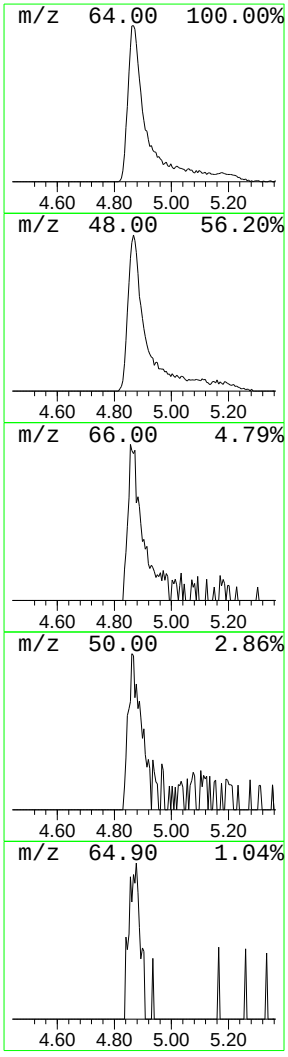
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Peak Number 1 system artifact Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.867	6.70 ug/L	236549	pentafluorobenzene	11.111

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfur dioxide	64	O2S	007446-09-5	90
2	Sulfur dioxide	64	O2S	007446-09-5	74
3	Aminomethanesulfonic acid	111	CH5NO3S	013881-91-9	64
4	L-Alanine, 3-sulfo-	169	C3H7NO5S	000498-40-8	9
5	Aminomethanesulfonic acid	111	CH5NO3S	013881-91-9	9





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\data\kenrickb\voa\08-20-2021\v4d4985\
Data File : 4d111927.d
Acq On : 19 Aug 2021 5:44 pm
Operator : jons2
Sample : jd29923-9
Misc : MS53003,V4D4985,5,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
system artifact	4.867	6.7	ug/L	236549	2	11.111	1764210	50.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180230.d
Acq On : 18 Aug 2021 12:27 pm
Operator : PrashanS
Sample : MB Inst : GCMS1C
Misc : MS53009,V1C7855,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 03:59:21 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

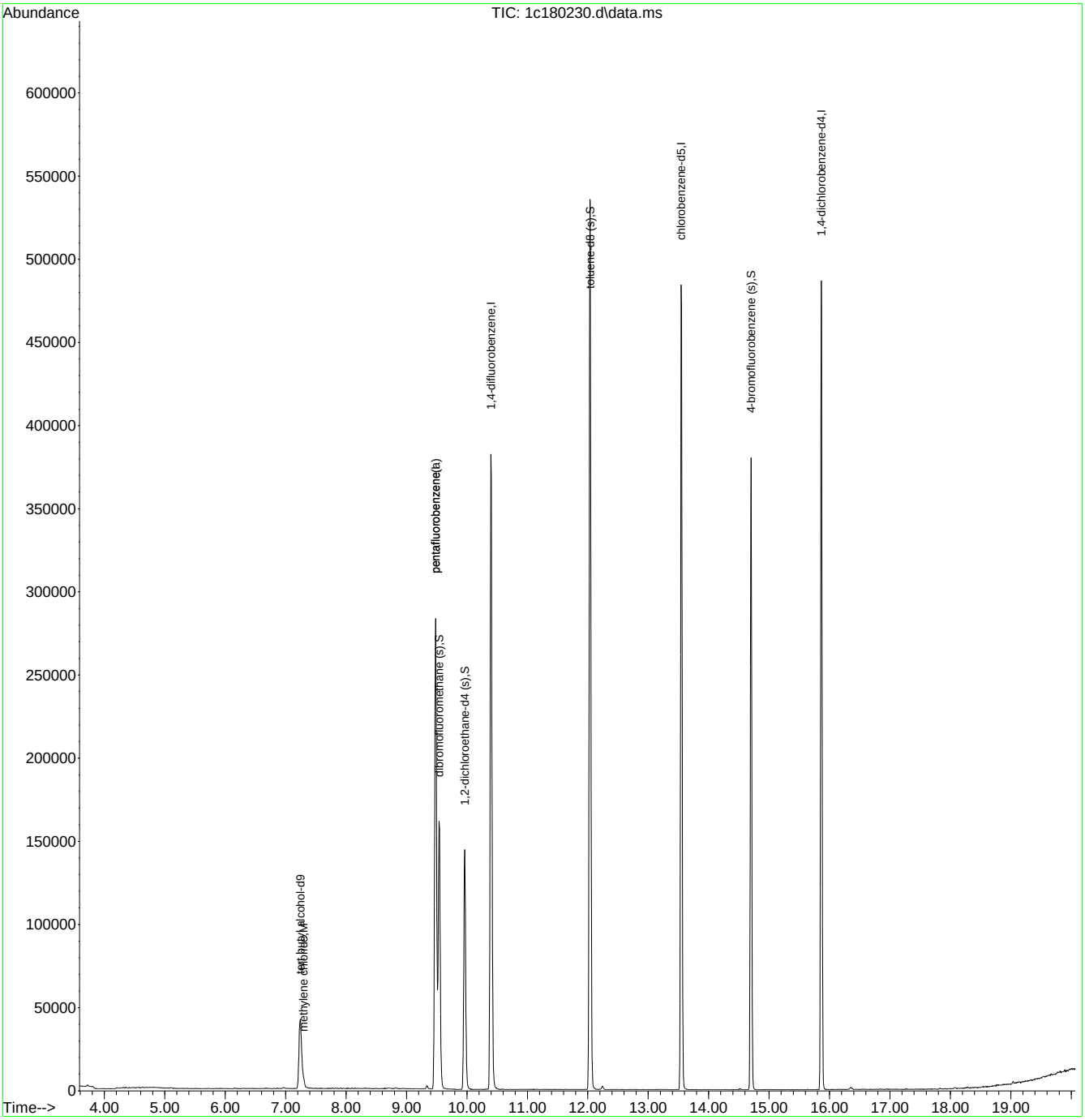
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.243	65	80950	500.00	ug/L	0.00
5) pentafluorobenzene	9.482	168	237738	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.397	114	355215	50.00	ug/L	0.00
73) chlorobenzene-d5	13.546	117	284569	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.863	152	131832	50.00	ug/L	0.00
125) pentafluorobenzene(a)	9.482	168	237738	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.539	113	112519	51.81	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 103.62%			
52) 1,2-dichloroethane-d4 (s)	9.963	65	108399	53.16	ug/L	0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 106.32%			
74) toluene-d8 (s)	12.039	98	392022	52.23	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 104.46%			
97) 4-bromofluorobenzene (s)	14.701	95	128011	49.85	ug/L	0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 99.70%			
Target Compounds						Qvalue
22) methylene chloride	7.295	84	1516	0.76	ug/L	94

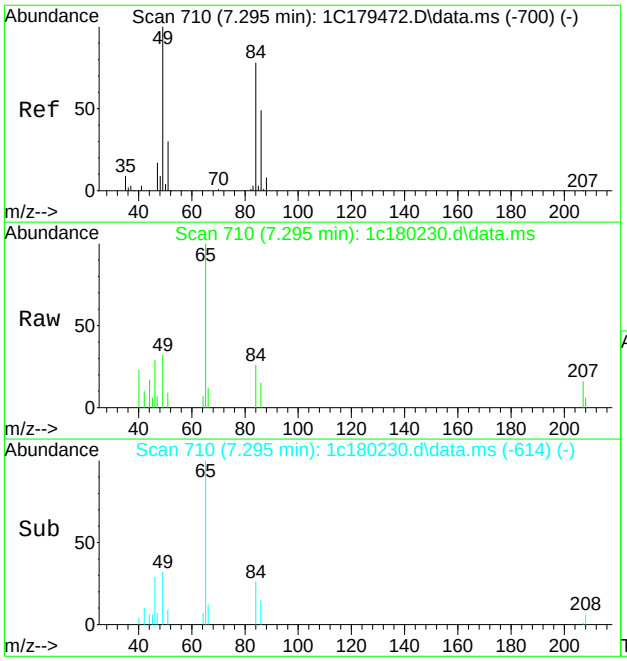
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180230.d
Acq On : 18 Aug 2021 12:27 pm
Operator : PrashanS
Sample : MB Inst : GCMS1C
Misc : MS53009,V1C7855,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 03:59:21 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

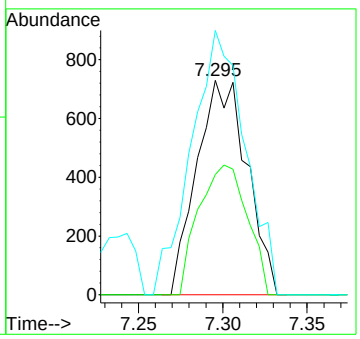




#22
methylene chloride
Concen: 0.76 ug/L
RT: 7.295 min Scan# 710
Delta R.T. 0.000 min
Lab File: 1c180230.d
Acq: 18 Aug 2021 12:27 pm

Tgt Ion: 84 Resp: 1516

Ion	Ratio	Lower	Upper
84	100		
86	56.0	32.9	92.9
49	123.3	99.1	159.1



7.2.1

7

LSC Area Percent Report

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180230.d
Acq On : 18 Aug 2021 12:27 pm
Operator : PrashanS
Sample : MB
Misc : MS53009,V1C7855,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

Signal : TIC: 1c180230.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.723	23	27	35	rVB3	1018	1333	0.13%	0.024%
2	3.980	75	76	82	rVB2	373	511	0.05%	0.009%
3	4.204	111	119	126	rBV3	748	1694	0.17%	0.031%
4	4.314	134	140	145	rVB3	604	899	0.09%	0.016%
5	4.361	145	149	151	rBV2	665	843	0.08%	0.015%
6	4.461	164	168	171	rBV3	393	544	0.05%	0.010%
7	5.099	286	290	297	rBV2	509	817	0.08%	0.015%
8	5.862	431	436	440	rBV	521	816	0.08%	0.015%
9	6.255	510	511	517	rBV3	348	513	0.05%	0.009%
10	6.715	597	599	608	rVB3	236	576	0.06%	0.010%
11	6.861	624	627	634	rBV3	573	731	0.07%	0.013%
12	6.961	638	646	653	rVV3	628	1418	0.14%	0.026%
13	7.243	687	700	724	rBV	41819	142266	14.03%	2.570%
14	7.913	824	828	833	rBV	616	683	0.07%	0.012%
15	8.101	860	864	868	rBV2	517	669	0.07%	0.012%
16	8.190	877	881	885	rBV3	308	529	0.05%	0.010%
17	8.645	966	968	973	rBV	733	679	0.07%	0.012%
18	8.692	973	977	991	rVV4	674	2617	0.26%	0.047%
19	8.817	997	1001	1008	rBV4	685	1257	0.12%	0.023%
20	8.948	1024	1026	1034	rVB2	494	932	0.09%	0.017%
21	9.048	1039	1045	1048	rBV3	412	658	0.06%	0.012%
22	9.335	1095	1100	1109	rBV5	2037	3432	0.34%	0.062%
23	9.482	1116	1128	1134	rBV	283038	635772	62.71%	11.486%
24	9.539	1134	1139	1154	rVB	160679	360158	35.52%	6.507%
25	9.769	1178	1183	1187	rVB2	438	710	0.07%	0.013%
26	9.963	1207	1220	1239	rBV	144347	304617	30.04%	5.503%
27	10.329	1284	1290	1293	rBV3	465	723	0.07%	0.013%
28	10.397	1293	1303	1327	rVV	382096	792006	78.12%	14.309%
29	11.140	1442	1445	1456	rVB2	357	613	0.06%	0.011%
30	12.034	1607	1616	1635	rBV	535255	1013882	100.00%	18.318%
31	12.243	1647	1656	1665	rVB2	2166	4484	0.44%	0.081%
32	13.546	1897	1905	1925	rBV	483928	828969	81.76%	14.977%
33	14.524	2086	2092	2094	rBV2	832	1063	0.10%	0.019%
34	14.702	2117	2126	2140	rVB	379964	614141	60.57%	11.096%
35	15.523	2278	2283	2288	rBV2	410	589	0.06%	0.011%
36	15.863	2339	2348	2366	rVB	486499	785000	77.43%	14.182%
37	16.156	2400	2404	2408	rBV3	404	589	0.06%	0.011%
38	16.224	2413	2417	2420	rBV3	374	519	0.05%	0.009%
39	16.354	2432	2442	2451	rVB	1604	3806	0.38%	0.069%
40	17.531	2664	2667	2670	rVB2	523	665	0.07%	0.012%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180230.d
Acq On : 18 Aug 2021 12:27 pm
Operator : PrashanS
Sample : MB
Misc : MS53009,V1C7855,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

41	17.562	2670	2673	2675	rBV2	475	555	0.05%	0.010%
42	17.641	2683	2688	2693	rBV3	329	550	0.05%	0.010%
43	17.829	2720	2724	2727	rBV2	718	698	0.07%	0.013%
44	17.908	2734	2739	2746	rVB2	570	1047	0.10%	0.019%
45	18.075	2767	2771	2777	rVB3	841	1789	0.18%	0.032%
46	18.117	2777	2779	2782	rBV3	522	586	0.06%	0.011%
47	18.253	2803	2805	2808	rBV3	767	722	0.07%	0.013%
48	18.279	2808	2810	2815	rVV3	871	1100	0.11%	0.020%
49	18.331	2817	2820	2822	rVB2	755	578	0.06%	0.010%
50	18.357	2822	2825	2826	rBV3	743	645	0.06%	0.012%
51	18.431	2835	2839	2843	rVB3	548	892	0.09%	0.016%
52	18.541	2853	2860	2863	rBV4	932	1412	0.14%	0.026%
53	18.577	2863	2867	2868	rBV2	496	595	0.06%	0.011%
54	18.598	2868	2871	2872	rVB2	740	543	0.05%	0.010%
55	18.645	2879	2880	2883	rBV2	573	562	0.06%	0.010%
56	18.703	2888	2891	2894	rBV4	607	595	0.06%	0.011%
57	18.760	2899	2902	2906	rBV4	1040	1042	0.10%	0.019%
58	18.896	2924	2928	2929	rVB4	588	553	0.05%	0.010%
59	18.980	2940	2944	2948	rVB5	784	1180	0.12%	0.021%
60	19.043	2948	2956	2960	rBV5	2075	4565	0.45%	0.082%
61	19.179	2979	2982	2984	rBV4	1056	1241	0.12%	0.022%
62	19.200	2984	2986	2989	rVV4	856	830	0.08%	0.015%

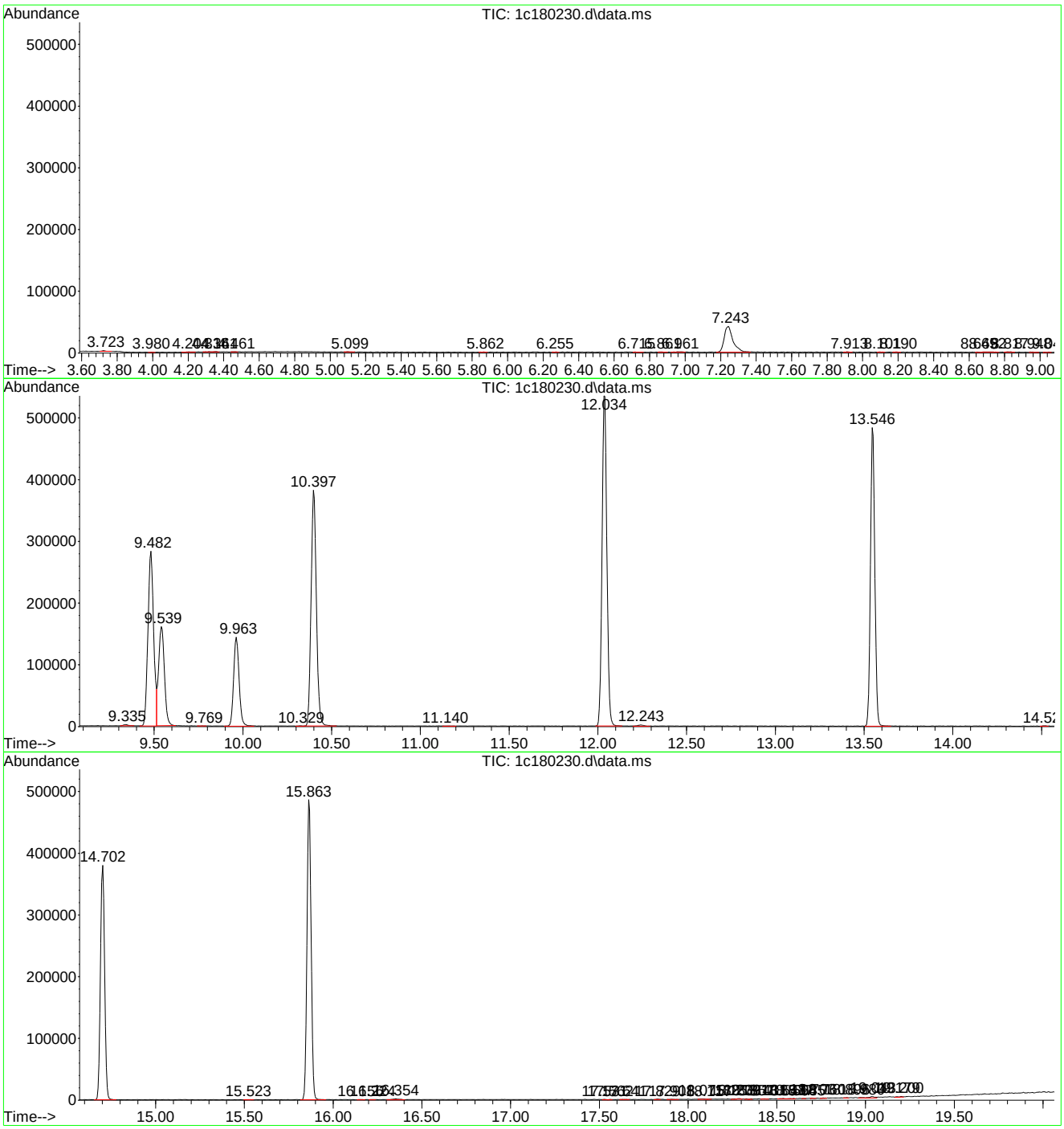
Sum of corrected areas: 5535003

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180230.d
Acq On : 18 Aug 2021 12:27 pm
Operator : PrashanS
Sample : MB
Misc : MS53009,V1C7855,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p



Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180230.d
Acq On : 18 Aug 2021 12:27 pm
Operator : PrashanS
Sample : MB
Misc : MS53009,V1C7855,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

No Library Search Compounds Detected

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\08-20-21\v1c7856-rush\
Data File : 1c180259.d
Acq On : 19 Aug 2021 12:00 pm
Operator : PrashanS
Sample : MB Inst : GCMS1C
Misc : MS53008,V1C7856,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 13:03:07 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

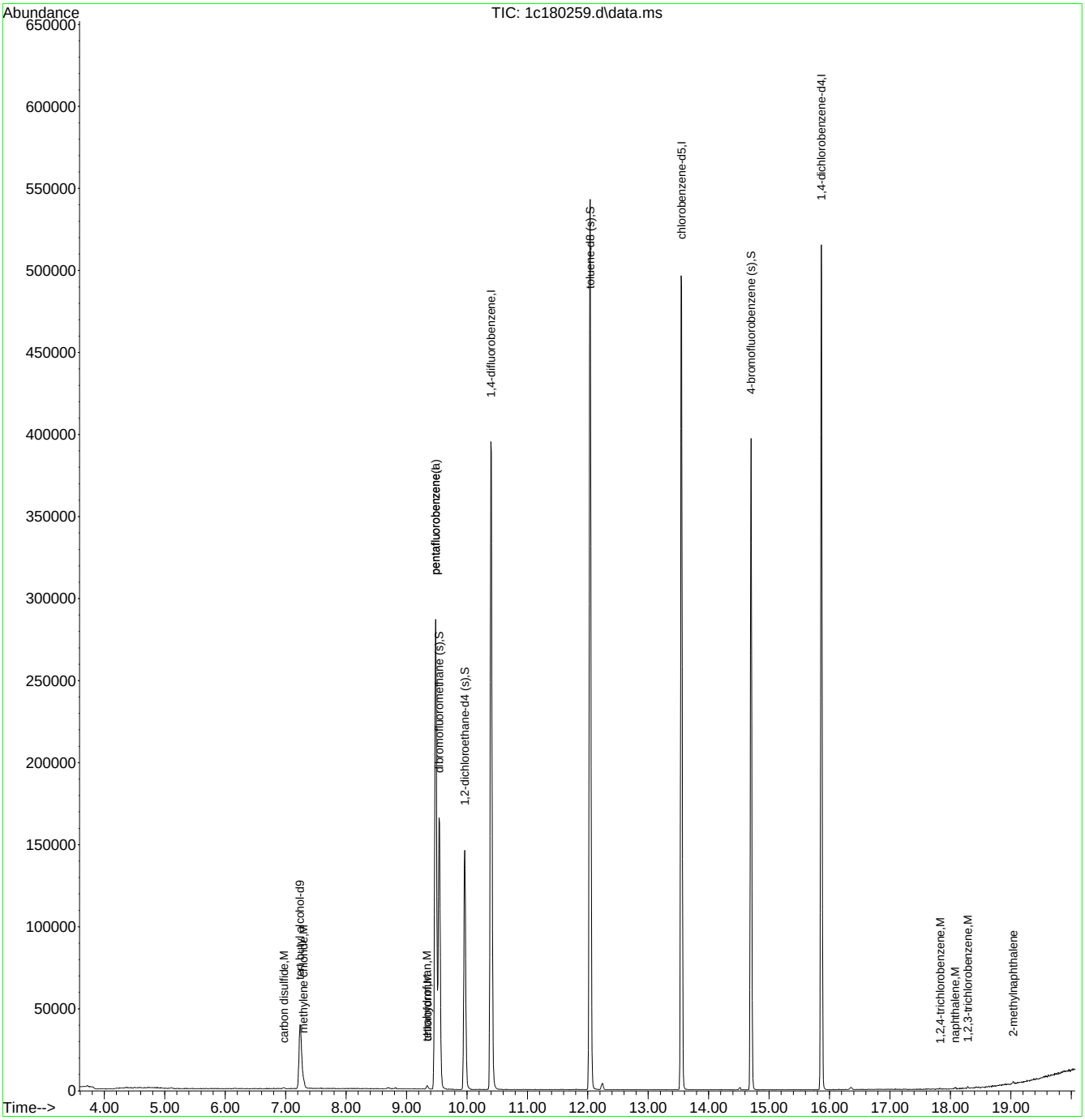
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.238	65	75098	500.00	ug/L	-0.01
5) pentafluorobenzene	9.482	168	247046	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.397	114	370253	50.00	ug/L	0.00
73) chlorobenzene-d5	13.551	117	293905	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.863	152	136789	50.00	ug/L	0.00
125) pentafluorobenzene(a)	9.482	168	247046	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.539	113	116286	51.52	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 103.04%			
52) 1,2-dichloroethane-d4 (s)	9.963	65	111917	52.65	ug/L	0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 105.30%			
74) toluene-d8 (s)	12.039	98	402148	51.88	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 103.76%			
97) 4-bromofluorobenzene (s)	14.701	95	131977	49.54	ug/L	0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 99.08%			
Target Compounds						Qvalue
21) carbon disulfide	6.971	76	1147	0.18	ug/L	49
22) methylene chloride	7.295	84	1228	0.59	ug/L	90
40) tetrahydrofuran	9.335	42	1131	1.83	ug/L	93
41) chloroform	9.346	85	496	0.21	ug/L #	77
119) 1,2,4-trichlorobenzene	17.829	180	326	0.14	ug/L	66
121) naphthalene	18.080	128	975	0.20	ug/L	69
122) 1,2,3-trichlorobenzene	18.284	180	365	0.18	ug/L #	70
124) 2-methylnaphthalene	19.037	142	692	0.24	ug/L	89

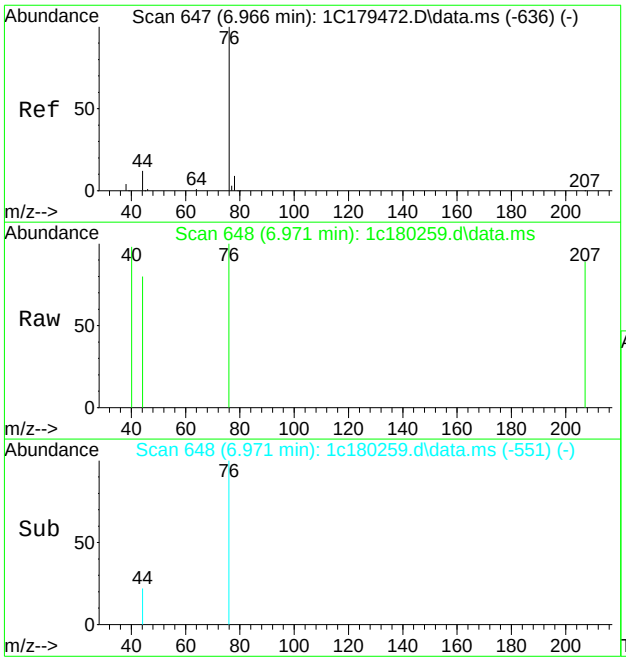
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\08-20-21\v1c7856-rush\
Data File : 1c180259.d
Acq On : 19 Aug 2021 12:00 pm
Operator : PrashanS
Sample : MB Inst : GCMS1C
Misc : MS53008,V1C7856,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 13:03:07 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

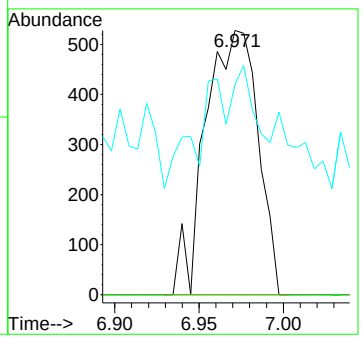


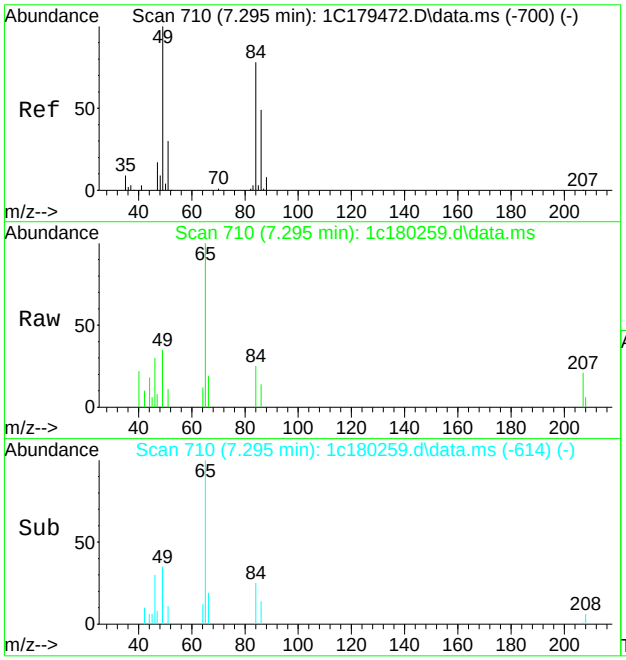


#21
carbon disulfide
Concen: 0.18 ug/L
RT: 6.971 min Scan# 648
Delta R.T. 0.005 min
Lab File: 1c180259.d
Acq: 19 Aug 2021 12:00 pm

Tgt Ion: 76 Resp: 1147

Ion	Ratio	Lower	Upper
76	100		
78	0.0	0.0	39.2
44	39.4	0.0	41.7

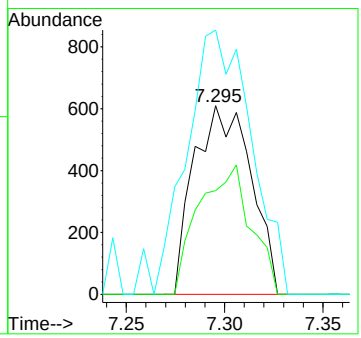


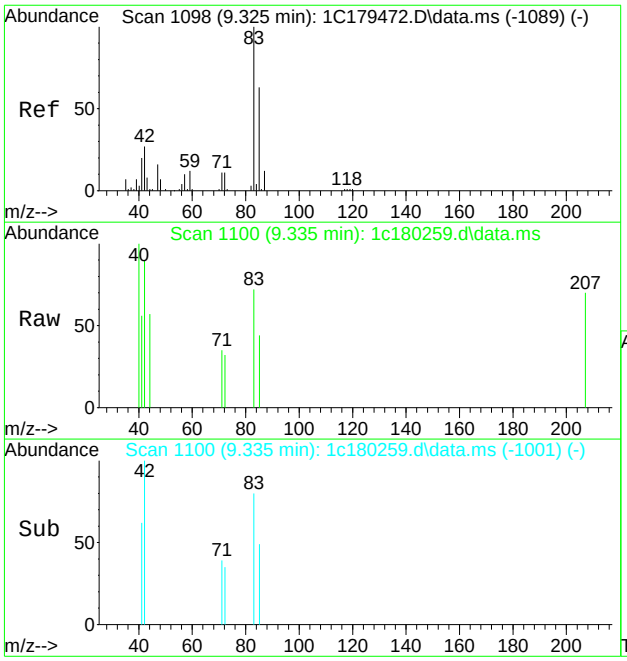


#22
methylene chloride
Concen: 0.59 ug/L
RT: 7.295 min Scan# 710
Delta R.T. 0.000 min
Lab File: 1c180259.d
Acq: 19 Aug 2021 12:00 pm

Tgt Ion: 84 Resp: 1228

Ion	Ratio	Lower	Upper
84	100		
86	54.9	32.9	92.9
49	140.2	99.1	159.1

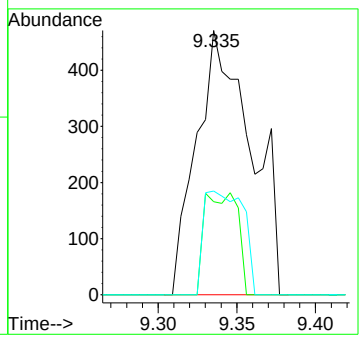


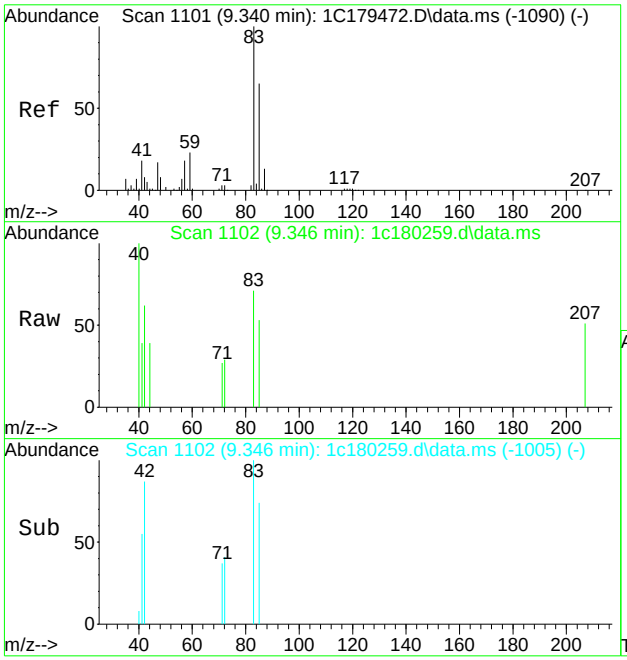


#40
tetrahydrofuran
Concen: 1.83 ug/L
RT: 9.335 min Scan# 1100
Delta R.T. 0.016 min
Lab File: 1c180259.d
Acq: 19 Aug 2021 12:00 pm

Tgt Ion: 42 Resp: 1131

Ion	Ratio	Lower	Upper
42	100		
72	35.2	12.7	72.7
71	39.3	10.3	70.3

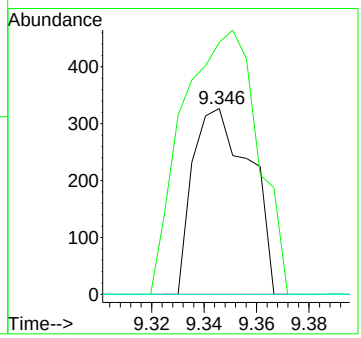


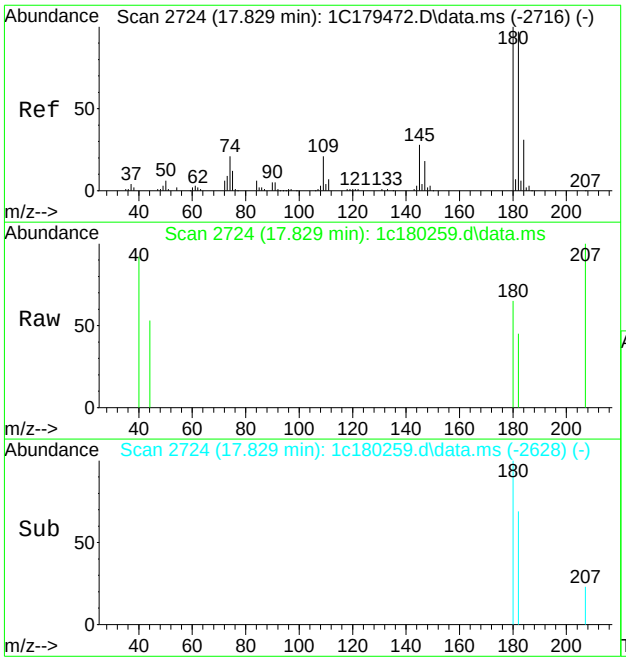


#41
chloroform
Concen: 0.21 ug/L
RT: 9.346 min Scan# 1102
Delta R.T. 0.005 min
Lab File: 1c180259.d
Acq: 19 Aug 2021 12:00 pm

Tgt Ion: 85 Resp: 496

Ion	Ratio	Lower	Upper
85	100		
83	135.5	124.3	184.3
47	0.0	3.6	63.6#

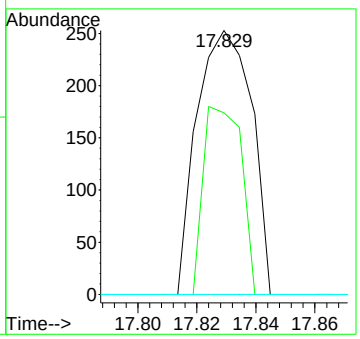


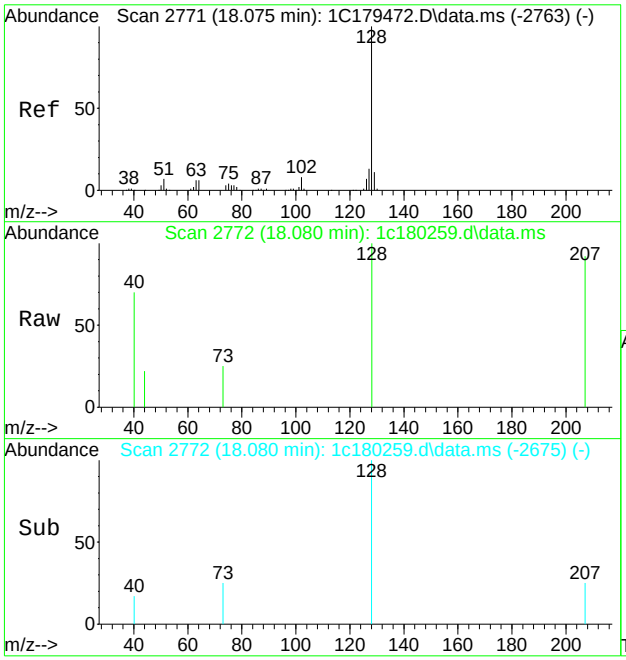


#119
1,2,4-trichlorobenzene
Concen: 0.14 ug/L
RT: 17.829 min Scan# 2724
Delta R.T. 0.000 min
Lab File: 1c180259.d
Acq: 19 Aug 2021 12:00 pm

Tgt Ion:180 Resp: 326

Ion	Ratio	Lower	Upper
180	100		
182	68.8	66.8	126.8
145	0.0	0.0	58.5

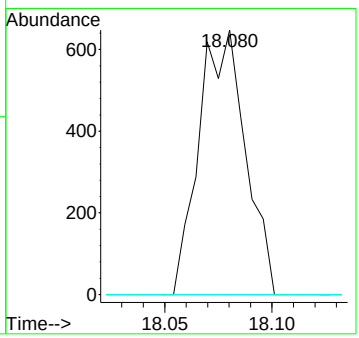


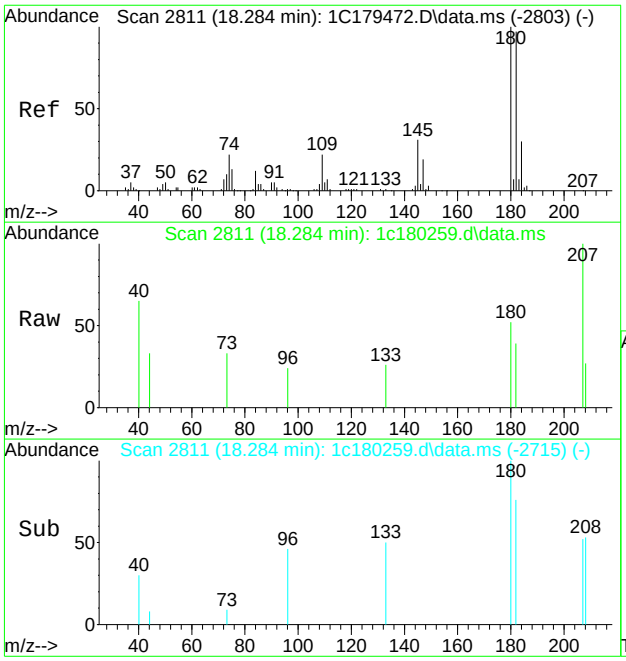


#121
naphthalene
Concen: 0.20 ug/L
RT: 18.080 min Scan# 2772
Delta R.T. 0.005 min
Lab File: 1c180259.d
Acq: 19 Aug 2021 12:00 pm

Tgt Ion:128 Resp: 975

Ion	Ratio	Lower	Upper
128	100		
127	0.0	0.0	42.7
129	0.0	0.0	41.1

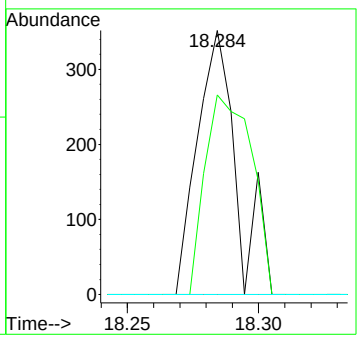


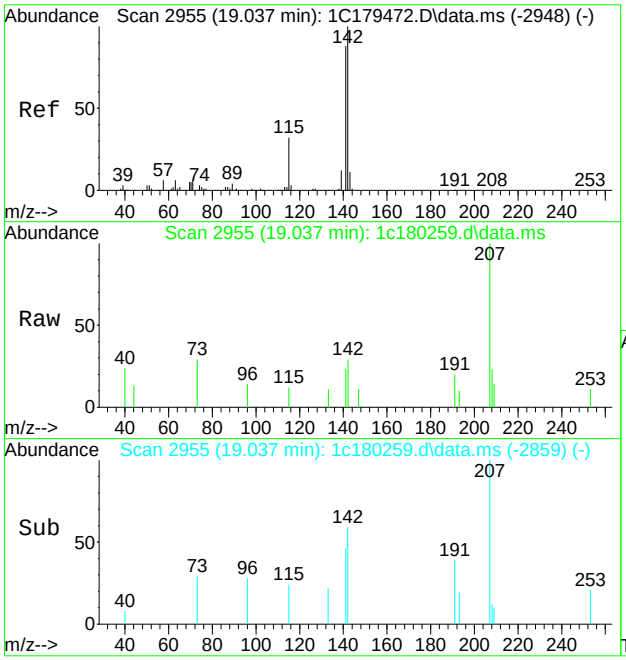


#122
1,2,3-trichlorobenzene
Concen: 0.18 ug/L
RT: 18.284 min Scan# 2811
Delta R.T. 0.000 min
Lab File: 1c180259.d
Acq: 19 Aug 2021 12:00 pm

Tgt Ion:180 Resp: 365

Ion	Ratio	Lower	Upper
180	100		
182	75.6	67.2	127.2
145	0.0	1.0	61.0#

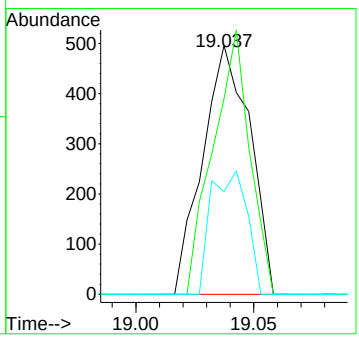




#124
2-methylnaphthalene
Concen: 0.24 ug/L
RT: 19.037 min Scan# 2955
Delta R.T. 0.000 min
Lab File: 1c180259.d
Acq: 19 Aug 2021 12:00 pm

Tgt Ion:142 Resp: 692

Ion	Ratio	Lower	Upper
142	100		
141	78.6	67.5	107.5
115	41.3	12.3	52.3



LSC Area Percent Report

Data Path : C:\msdchem\1\data\davem1\08-20-21\v1c7856-rush\
Data File : 1c180259.d
Acq On : 19 Aug 2021 12:00 pm
Operator : PrashanS
Sample : MB
Misc : MS53008,V1C7856,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

Signal : TIC: 1c180259.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.723	22	27	32	rVB3	994	1640	0.16%	0.029%
2	4.220	109	122	125	rBV3	676	2223	0.22%	0.039%
3	4.356	143	148	153	rBV3	685	1249	0.12%	0.022%
4	4.503	171	176	180	rBV3	673	895	0.09%	0.016%
5	5.109	287	292	298	rVB4	653	1245	0.12%	0.022%
6	5.439	348	355	357	rBV3	294	640	0.06%	0.011%
7	6.004	458	463	469	rBV3	297	605	0.06%	0.011%
8	6.145	489	490	500	rVB3	380	635	0.06%	0.011%
9	6.574	569	572	580	rBV2	528	1194	0.12%	0.021%
10	6.976	640	649	656	rBV3	997	2711	0.26%	0.047%
11	7.238	688	699	725	rBV2	38927	130124	12.62%	2.277%
12	7.782	801	803	812	rVB3	390	719	0.07%	0.013%
13	8.415	923	924	929	rBV2	430	542	0.05%	0.009%
14	8.478	932	936	940	rBV2	433	730	0.07%	0.013%
15	8.692	971	977	989	rBV4	885	2423	0.23%	0.042%
16	8.823	997	1002	1010	rVB3	832	1310	0.13%	0.023%
17	8.906	1013	1018	1022	rBV3	309	512	0.05%	0.009%
18	9.341	1094	1101	1112	rVB5	2274	4960	0.48%	0.087%
19	9.482	1116	1128	1134	rVV	286440	655294	63.55%	11.469%
20	9.539	1134	1139	1163	rVB	165432	376386	36.50%	6.587%
21	9.963	1208	1220	1240	rVB	145905	310897	30.15%	5.441%
22	10.397	1293	1303	1327	rBV	394863	824142	79.93%	14.424%
23	11.134	1440	1444	1453	rBV2	342	636	0.06%	0.011%
24	12.039	1604	1617	1642	rBV	542742	1031079	100.00%	18.045%
25	12.243	1646	1656	1664	rVB2	3969	9596	0.93%	0.168%
26	12.651	1729	1734	1738	rBV2	335	513	0.05%	0.009%
27	13.169	1825	1833	1835	rVB2	286	622	0.06%	0.011%
28	13.546	1895	1905	1921	rBV	496178	860392	83.45%	15.058%
29	14.518	2085	2091	2100	rBV4	1355	2657	0.26%	0.047%
30	14.701	2116	2126	2141	rBV	396942	635913	61.67%	11.129%
31	15.387	2251	2257	2262	rVB2	233	507	0.05%	0.009%
32	15.863	2340	2348	2371	rVB	515147	817640	79.30%	14.310%
33	16.359	2431	2443	2452	rBV2	1454	3641	0.35%	0.064%
34	16.448	2458	2460	2464	rBV3	340	521	0.05%	0.009%
35	17.024	2567	2570	2578	rBV3	348	649	0.06%	0.011%
36	17.322	2625	2627	2633	rBV3	305	545	0.05%	0.010%
37	17.489	2656	2659	2666	rBV3	354	575	0.06%	0.010%
38	17.782	2709	2715	2717	rBV2	547	785	0.08%	0.014%
39	17.824	2717	2723	2727	rVB3	708	873	0.08%	0.015%
40	18.007	2752	2758	2760	rBV2	514	583	0.06%	0.010%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\davem1\08-20-21\v1c7856-rush\
Data File : 1c180259.d
Acq On : 19 Aug 2021 12:00 pm
Operator : PrashanS
Sample : MB
Misc : MS53008,V1C7856,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

41	18.080	2767	2772	2773	rBV3	811	1028	0.10%	0.018%
42	18.122	2777	2780	2786	rBV3	651	1091	0.11%	0.019%
43	18.159	2786	2787	2790	rBV2	813	521	0.05%	0.009%
44	18.195	2792	2794	2797	rBV2	734	614	0.06%	0.011%
45	18.284	2808	2811	2816	rBV	1408	2011	0.20%	0.035%
46	18.342	2820	2822	2828	rBV4	621	975	0.09%	0.017%
47	18.467	2844	2846	2852	rVB3	828	1269	0.12%	0.022%
48	18.525	2852	2857	2860	rBV4	945	1778	0.17%	0.031%
49	18.588	2867	2869	2872	rBV3	678	523	0.05%	0.009%
50	18.629	2873	2877	2880	rBV5	876	993	0.10%	0.017%
51	18.676	2880	2886	2887	rVB4	780	1138	0.11%	0.020%
52	18.687	2887	2888	2890	rBV2	960	757	0.07%	0.013%
53	18.734	2895	2897	2899	rVB3	837	621	0.06%	0.011%
54	18.750	2899	2900	2903	rBV2	599	540	0.05%	0.009%
55	18.854	2919	2920	2925	rBV4	1051	1438	0.14%	0.025%
56	18.891	2925	2927	2929	rVV2	662	554	0.05%	0.010%
57	19.037	2950	2955	2961	rBV6	1691	2804	0.27%	0.049%
58	19.539	3049	3051	3054	rBV4	852	915	0.09%	0.016%
59	19.618	3064	3066	3071	rBV5	1544	1953	0.19%	0.034%
60	19.785	3095	3098	3100	rBV4	1432	1448	0.14%	0.025%
61	19.958	3129	3131	3136	rVB4	1537	2006	0.19%	0.035%

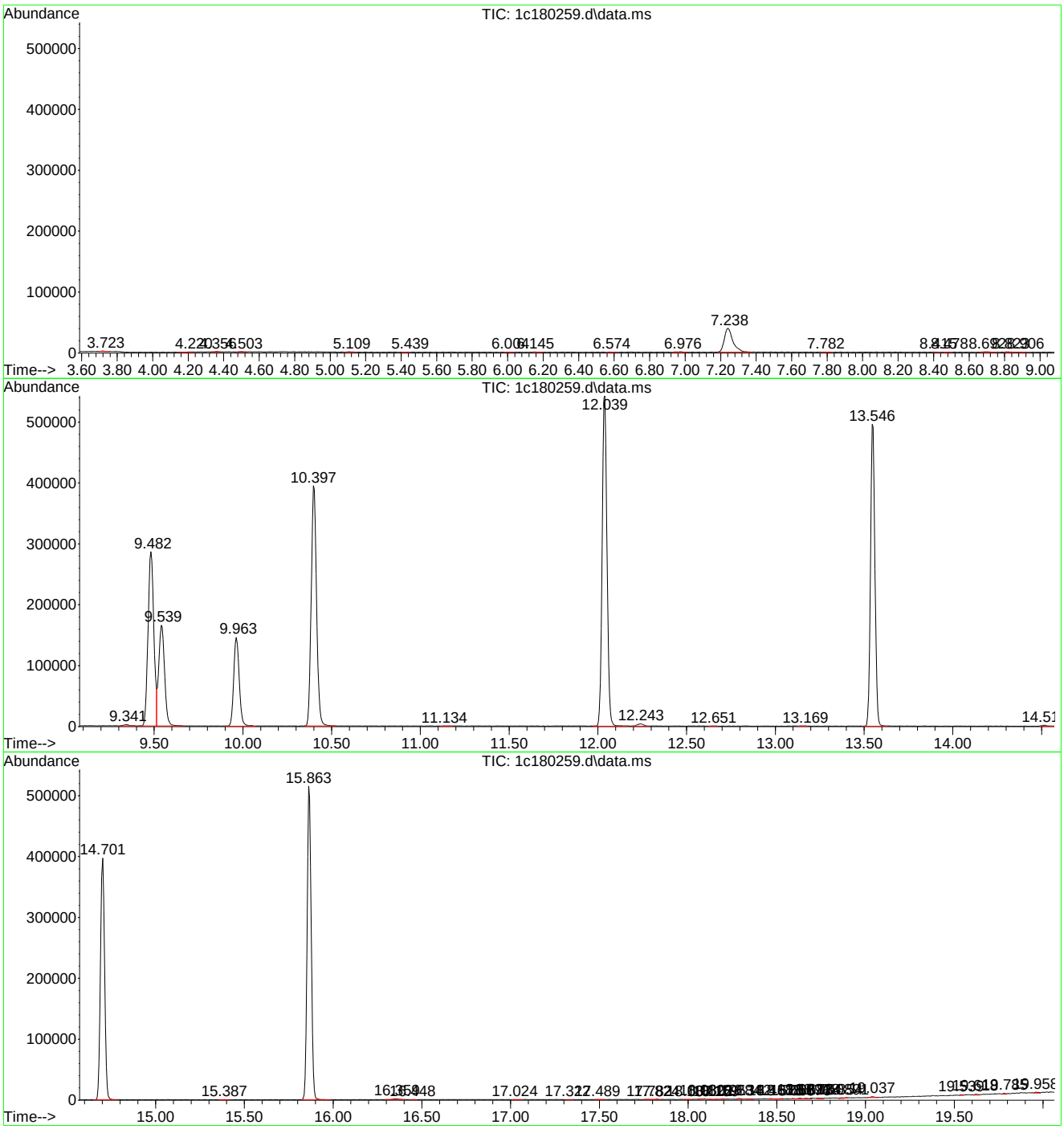
Sum of corrected areas: 5713780

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\data\davem1\08-20-21\v1c7856-rush\
Data File : 1c180259.d
Acq On : 19 Aug 2021 12:00 pm
Operator : PrashanS
Sample : MB
Misc : MS53008,V1C7856,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p



Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\data\davem1\08-20-21\v1c7856-rush\
Data File : 1c180259.d
Acq On : 19 Aug 2021 12:00 pm
Operator : PrashanS
Sample : MB
Misc : MS53008,V1C7856,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

No Library Search Compounds Detected
****

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/19/21 18:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\08-20-21\v4d4985\
Data File : 4d111916.d
Acq On : 19 Aug 2021 12:24 pm
Operator : jons2
Sample : mb Inst : MS4D
Misc : MS52961,V4D4985,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Results File: M4D4892.RES
Quant Time: Aug 19 17:30:39 2021
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:43:19 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	8.621	65	391720	500.00	ug/L		-0.01
5) pentafluorobenzene	11.111	168	493801	50.00	ug/L		0.00
52) 1,4-difluorobenzene	12.002	114	665714	50.00	ug/L		0.00
74) chlorobenzene-d5	14.897	117	513068	50.00	ug/L		0.00
97) 1,4-dichlorobenzene-d4	17.004	152	216232	50.00	ug/L		0.00
126) pentafluorobenzene(a)	11.111	168	493801	50.00	ug/L		0.00
System Monitoring Compounds							
44) dibromofluoromethane (s)	11.111	113	237471	50.92	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.84%				
53) 1,2-dichloroethane-d4 (s)	11.536	65	275273	56.36	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 112.72%				
75) toluene-d8 (s)	13.539	98	689539	49.08	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.16%				
98) 4-bromofluorobenzene (s)	15.940	95	226856	48.03	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 96.06%				
Target Compounds							Qvalue
19) acetone	7.981	43	2181m	1.17	ug/L		
22) carbon disulfide	8.385	76	1356	0.12	ug/L		71
23) methylene chloride	8.705	84	1180	0.30	ug/L		86
41) tetrahydrofuran	10.954	72	1054	1.19	ug/L	#	51
42) chloroform	10.912	85	628	0.13	ug/L	#	60
111) p-isopropyltoluene	16.915	119	1372	0.15	ug/L		58
112) 1,4-dichlorobenzene	16.999	146	784	0.13	ug/L	#	1
116) n-butylbenzene	17.319	92	709	0.18	ug/L	#	67
118) 1,3,5-trichlorobenzene	18.326	180	328	0.10	ug/L		78
120) 1,2,4-trichlorobenzene	18.923	180	541	0.21	ug/L		77
122) naphthalene	19.191	128	2026	0.29	ug/L		76
123) 1,2,3-trichlorobenzene	19.406	180	614	0.26	ug/L	#	72
125) 2-methylnaphthalene	20.281	142	855	0.49	ug/L	#	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed

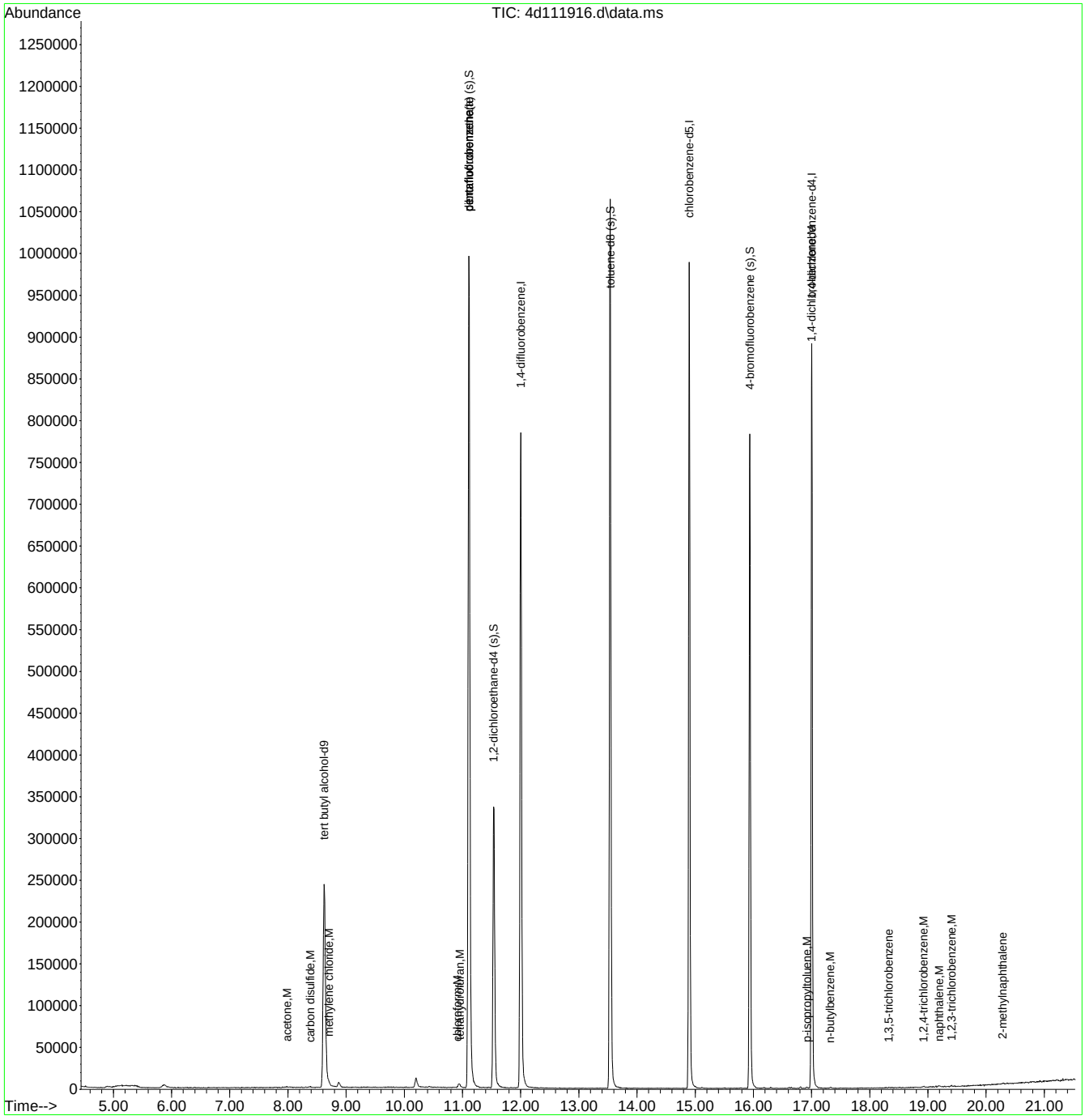
7.2.5

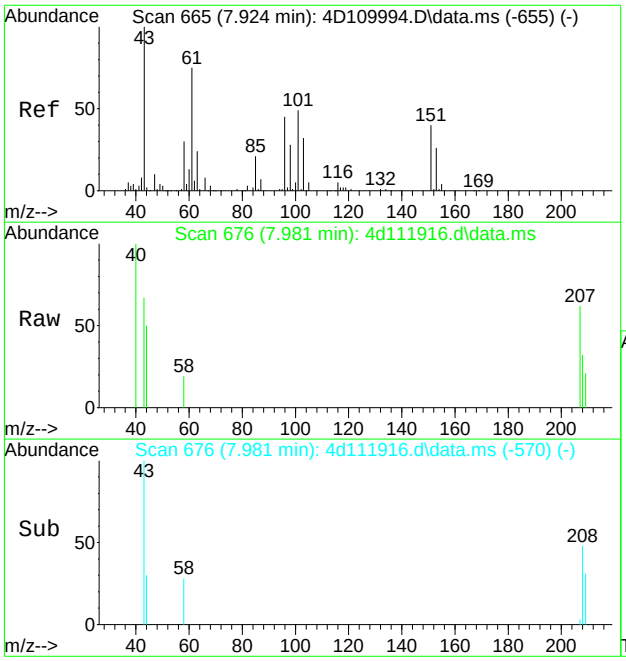
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\08-20-21\v4d4985\
Data File : 4d111916.d
Acq On : 19 Aug 2021 12:24 pm
Operator : jons2
Sample : mb Inst : MS4D
Misc : MS52961,V4D4985,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Results File: M4D4892.RES
Quant Time: Aug 19 17:30:39 2021
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:43:19 2021
Response via : Initial Calibration

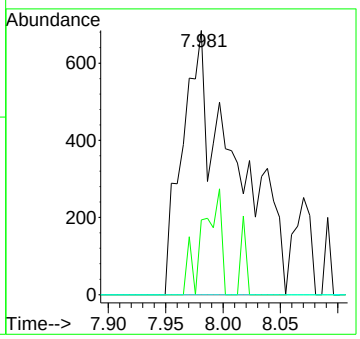


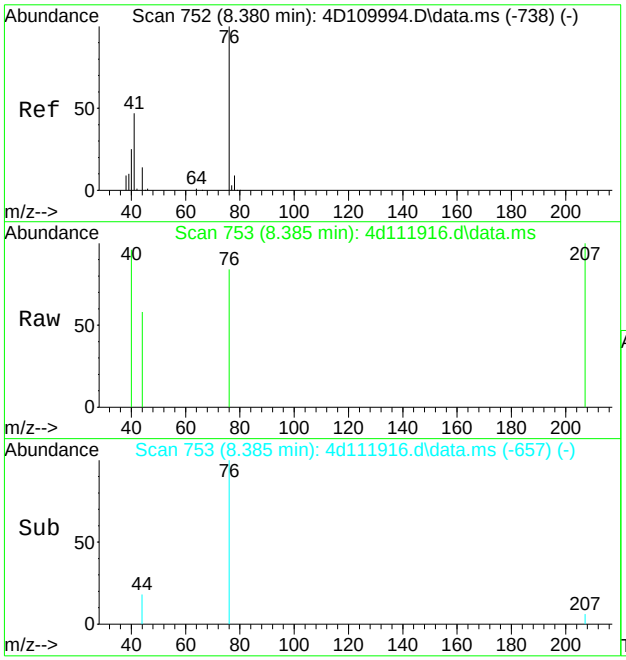


#19
acetone
Concen: 1.17 ug/L m
RT: 7.981 min Scan# 676
Delta R.T. 0.057 min
Lab File: 4d111916.d
Acq: 19 Aug 2021 12:24 pm

Tgt Ion: 43 Resp: 2181

Ion	Ratio	Lower	Upper
43	100		
58	28.3	0.5	60.5
42	0.0	0.0	38.0

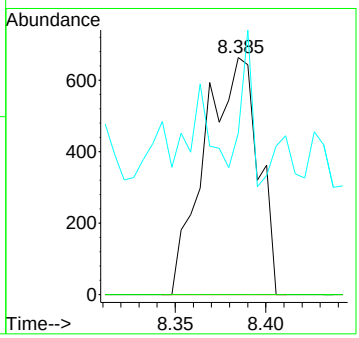


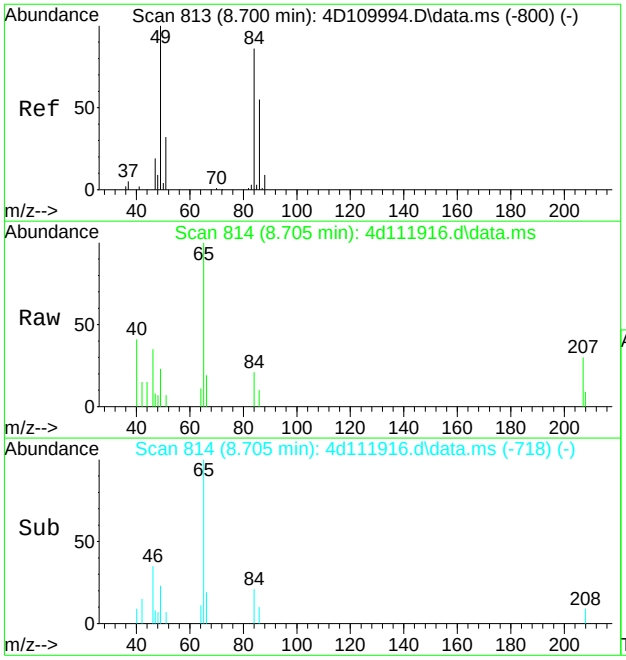


#22
carbon disulfide
Concen: 0.12 ug/L
RT: 8.385 min Scan# 753
Delta R.T. 0.005 min
Lab File: 4d111916.d
Acq: 19 Aug 2021 12:24 pm

Tgt Ion: 76 Resp: 1356

Ion	Ratio	Lower	Upper
76	100		
78	0.0	0.0	39.1
44	1.1	0.0	43.5

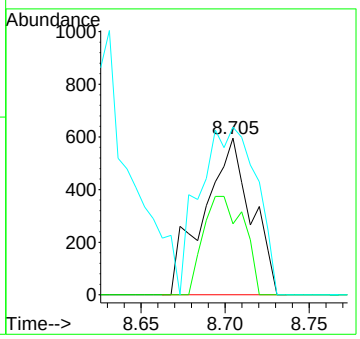


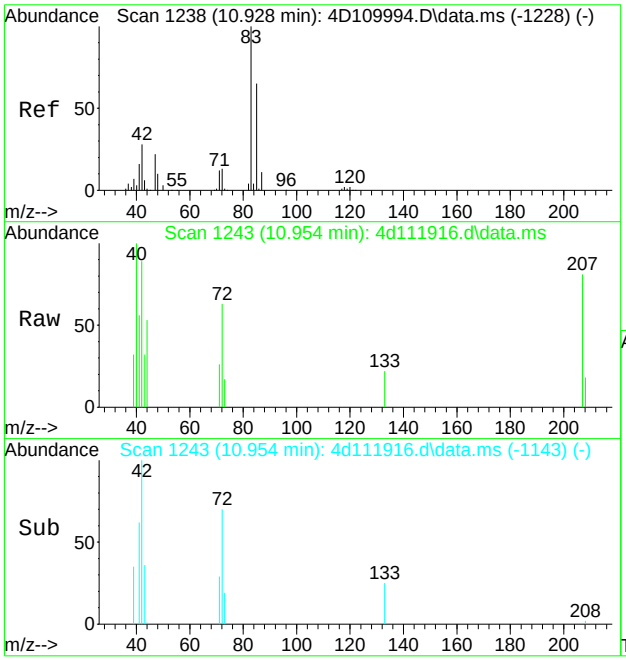


#23
methylene chloride
Concen: 0.30 ug/L
RT: 8.705 min Scan# 814
Delta R.T. 0.005 min
Lab File: 4d111916.d
Acq: 19 Aug 2021 12:24 pm

Tgt Ion: 84 Resp: 1180

Ion	Ratio	Lower	Upper
84	100		
86	45.3	33.7	93.7
49	106.9	86.5	146.5

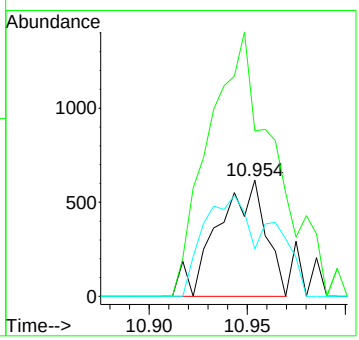


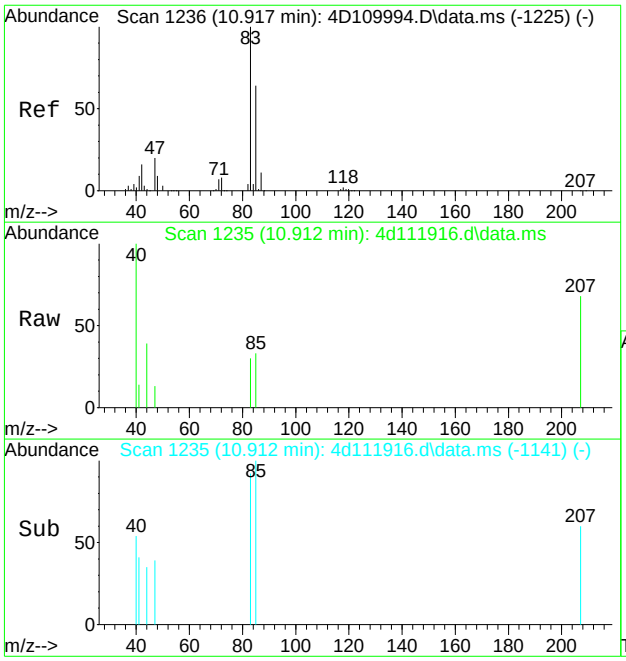


#41
tetrahydrofuran
Concen: 1.19 ug/L
RT: 10.954 min Scan# 1243
Delta R.T. 0.026 min
Lab File: 4d111916.d
Acq: 19 Aug 2021 12:24 pm

Tgt Ion: 72 Resp: 1054

Ion	Ratio	Lower	Upper
72	100		
42	142.2	183.8	243.8#
71	40.8	66.8	126.8#

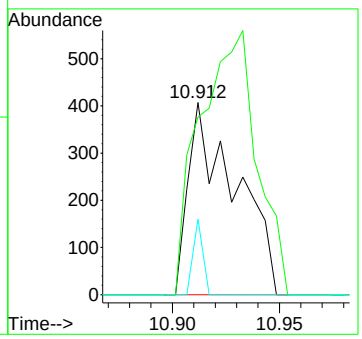


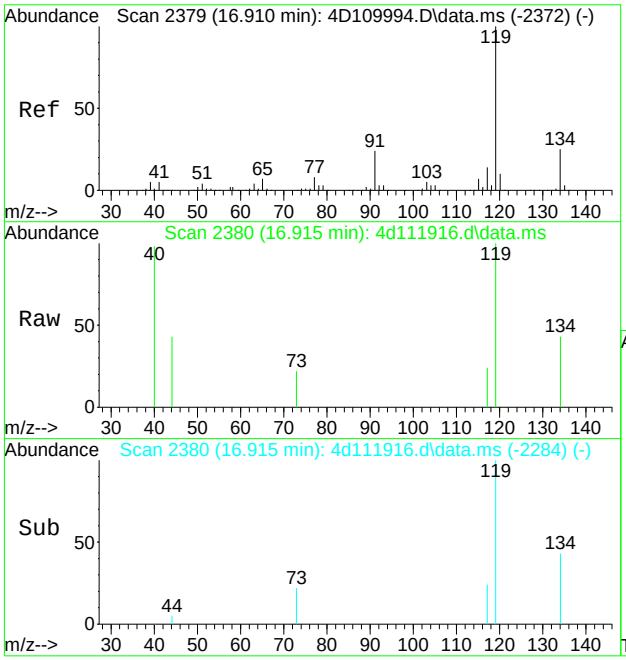


#42
chloroform
Concen: 0.13 ug/L
RT: 10.912 min Scan# 1235
Delta R.T. -0.005 min
Lab File: 4d111916.d
Acq: 19 Aug 2021 12:24 pm

Tgt Ion: 85 Resp: 628

Ion	Ratio	Lower	Upper
85	100		
83	92.4	127.3	187.3#
47	39.3	8.5	68.5

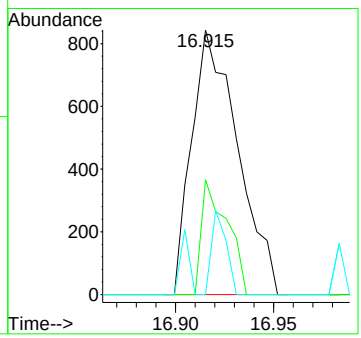


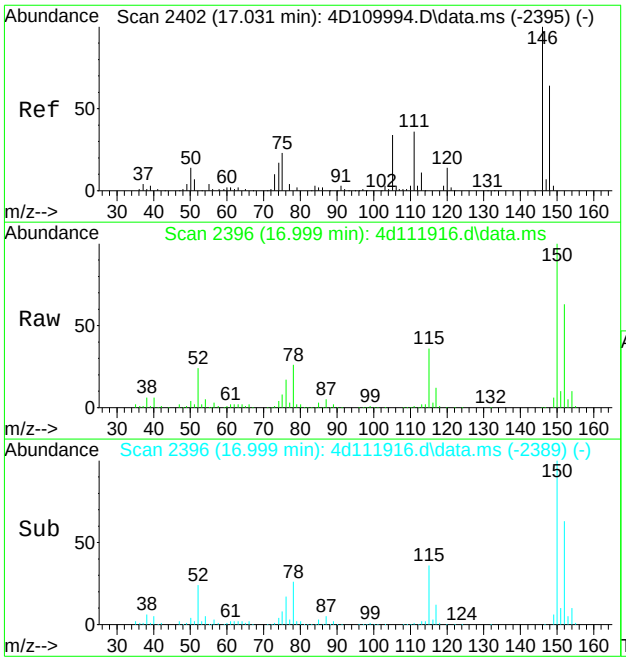


#111
p-isopropyltoluene
Concen: 0.15 ug/L
RT: 16.915 min Scan# 2380
Delta R.T. 0.005 min
Lab File: 4d111916.d
Acq: 19 Aug 2021 12:24 pm

Tgt Ion:119 Resp: 1372

Ion	Ratio	Lower	Upper
119	100		
134	43.4	0.0	55.2
91	0.0	0.0	53.9

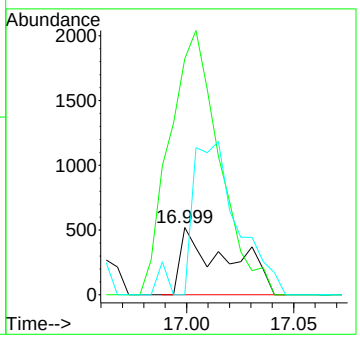


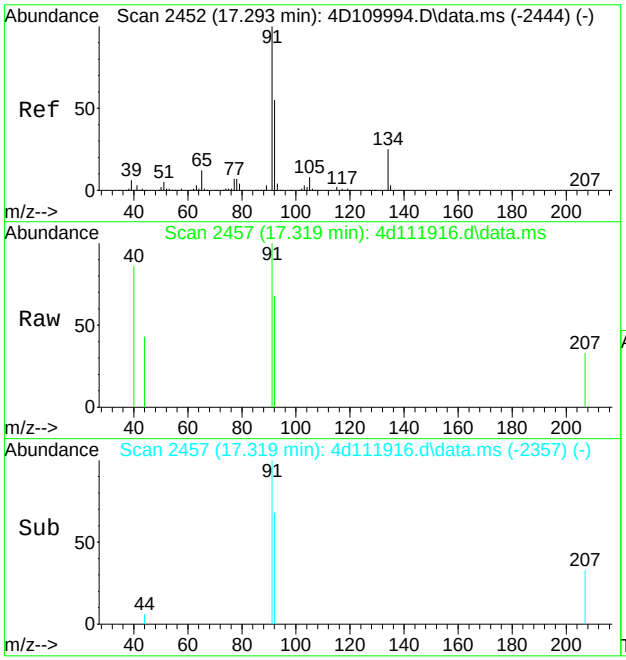


#112
1,4-dichlorobenzene
Concen: 0.13 ug/L
RT: 16.999 min Scan# 2396
Delta R.T. -0.032 min
Lab File: 4d111916.d
Acq: 19 Aug 2021 12:24 pm

Tgt Ion:146 Resp: 784

Ion	Ratio	Lower	Upper
146	100		
111	349.9	6.5	66.5#
148	0.0	33.7	93.7#

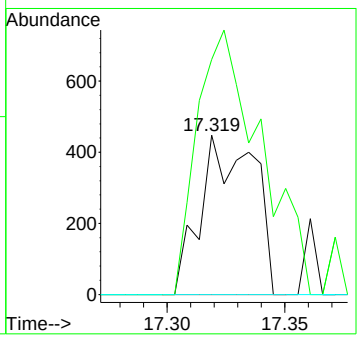


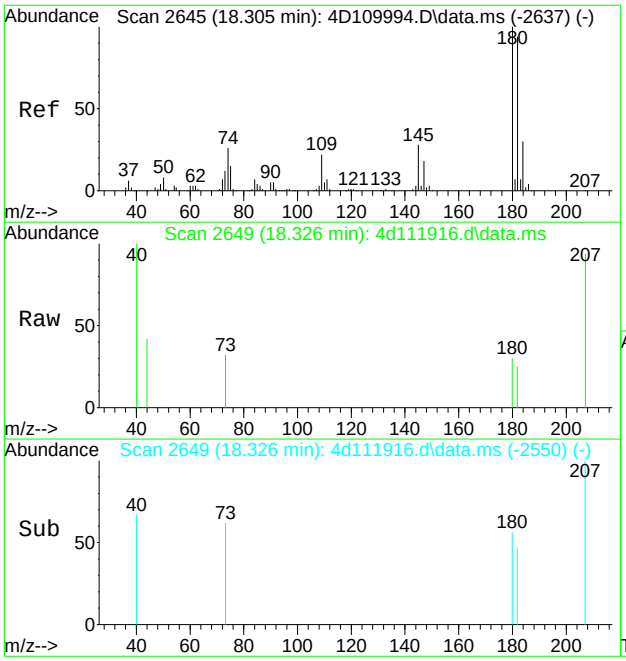


#116
n-butylbenzene
Concen: 0.18 ug/L
RT: 17.319 min Scan# 2457
Delta R.T. 0.026 min
Lab File: 4d111916.d
Acq: 19 Aug 2021 12:24 pm

Tgt Ion: 92 Resp: 709

Ion	Ratio	Lower	Upper
92	100		
91	147.5	151.7	211.7#
134	0.0	14.8	74.8#

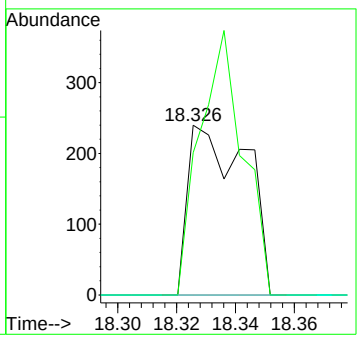


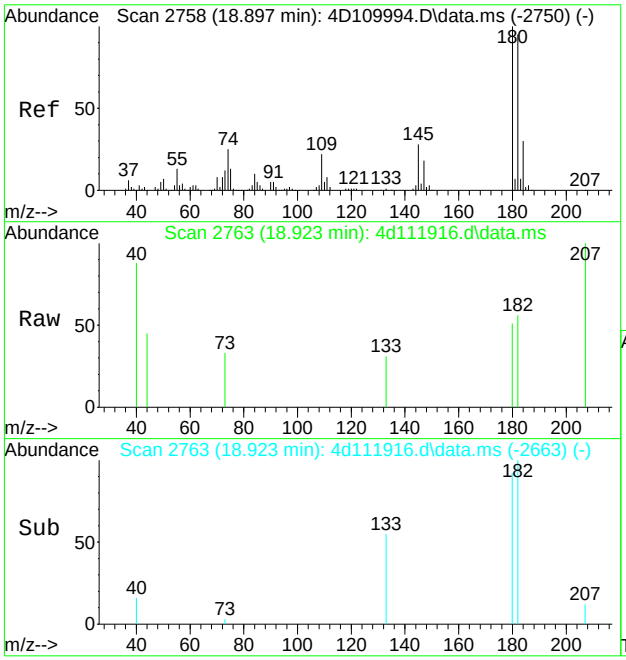


#118
1,3,5-trichlorobenzene
Concen: 0.10 ug/L
RT: 18.326 min Scan# 2649
Delta R.T. 0.021 min
Lab File: 4d111916.d
Acq: 19 Aug 2021 12:24 pm

Tgt Ion:180 Resp: 328

Ion	Ratio	Lower	Upper
180	100		
182	83.7	64.3	124.3
184	0.0	0.0	60.0

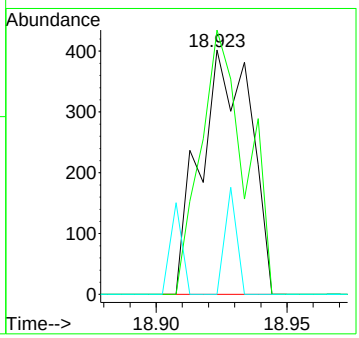


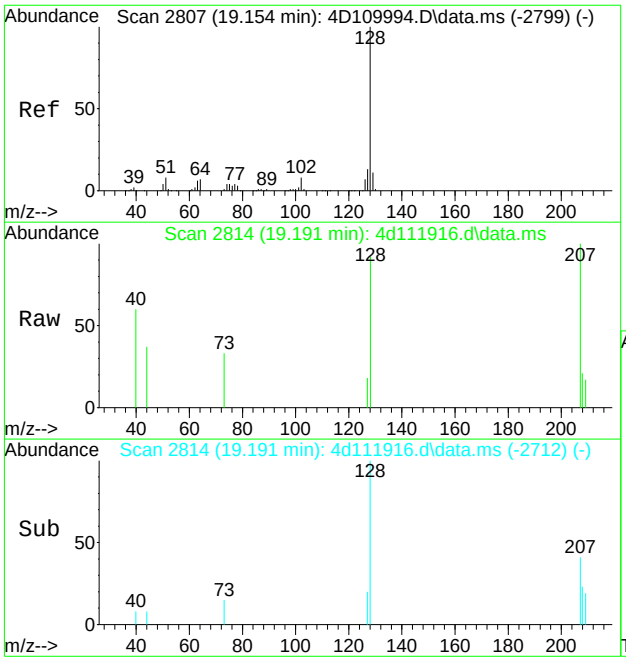


#120
1,2,4-trichlorobenzene
Concen: 0.21 ug/L
RT: 18.923 min Scan# 2763
Delta R.T. 0.026 min
Lab File: 4d111916.d
Acq: 19 Aug 2021 12:24 pm

Tgt Ion:180 Resp: 541

Ion	Ratio	Lower	Upper
180	100		
182	108.2	64.9	124.9
145	0.0	0.0	58.2

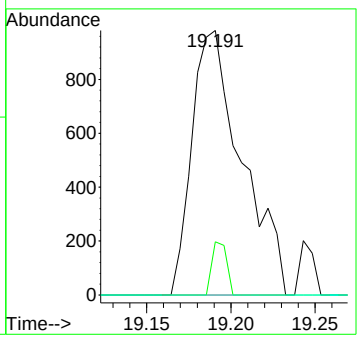


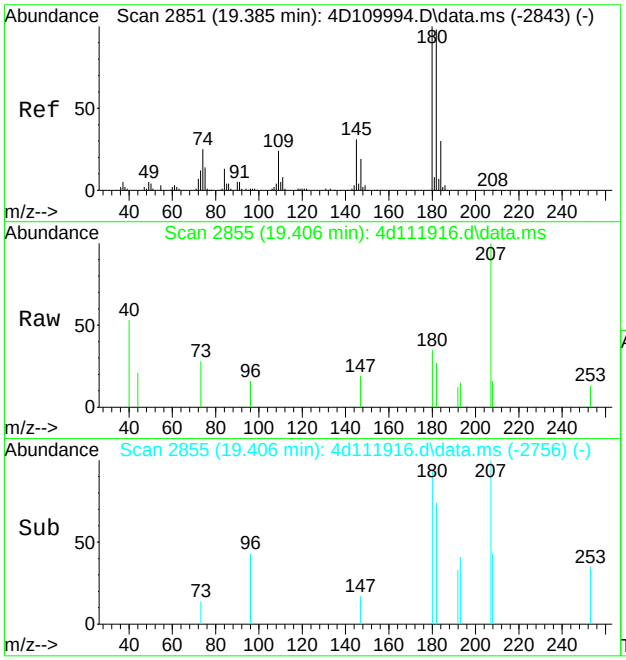


#122
naphthalene
Concen: 0.29 ug/L
RT: 19.191 min Scan# 2814
Delta R.T. 0.037 min
Lab File: 4d111916.d
Acq: 19 Aug 2021 12:24 pm

Tgt Ion:128 Resp: 2026

Ion	Ratio	Lower	Upper
128	100		
127	20.1	0.0	42.5
129	0.0	0.0	40.8

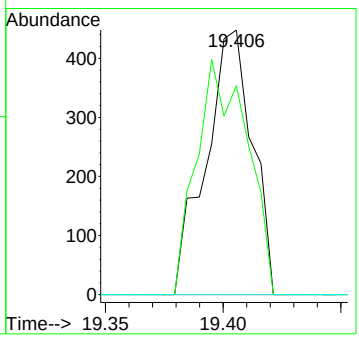


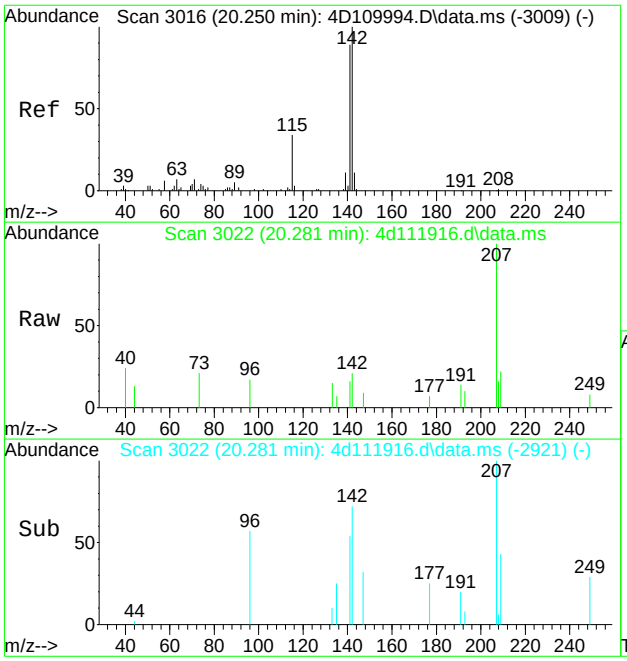


#123
1,2,3-trichlorobenzene
Concen: 0.26 ug/L
RT: 19.406 min Scan# 2855
Delta R.T. 0.021 min
Lab File: 4d111916.d
Acq: 19 Aug 2021 12:24 pm

Tgt Ion:180 Resp: 614

Ion	Ratio	Lower	Upper
180	100		
182	79.0	67.9	127.9
145	0.0	0.5	60.5#

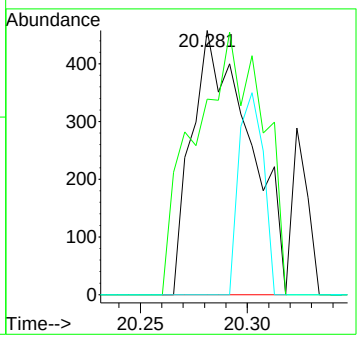




#125
2-methylnaphthalene
Concen: 0.49 ug/L
RT: 20.281 min Scan# 3022
Delta R.T. 0.031 min
Lab File: 4d111916.d
Acq: 19 Aug 2021 12:24 pm

Tgt Ion:142 Resp: 855

Ion	Ratio	Lower	Upper
142	100		
141	74.0	68.5	108.5
115	0.0	13.7	53.7#



7.2.5

7

Manual Integration Approval Summary

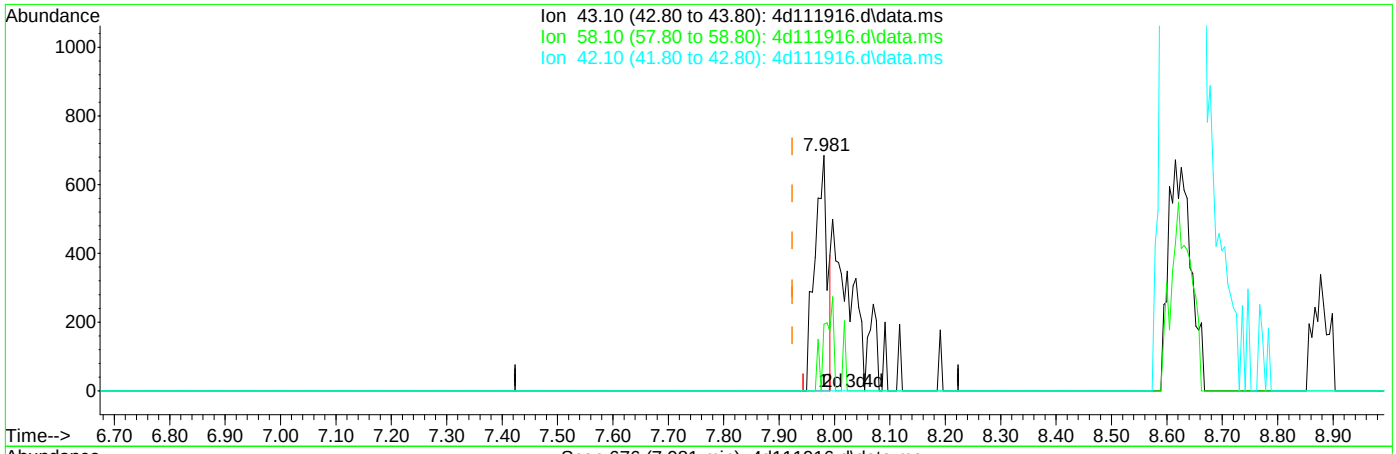
Sample Number:	V4D4985-MB	**Method:**	SW846 8260D
Lab FileID:	4D111916.D	**Analyst approved:**	08/19/21 17:48 Dave Moriente
Injection Time:	08/19/21 12:24	**Supervisor approved:**	08/19/21 18:28 Kanya Veerawat

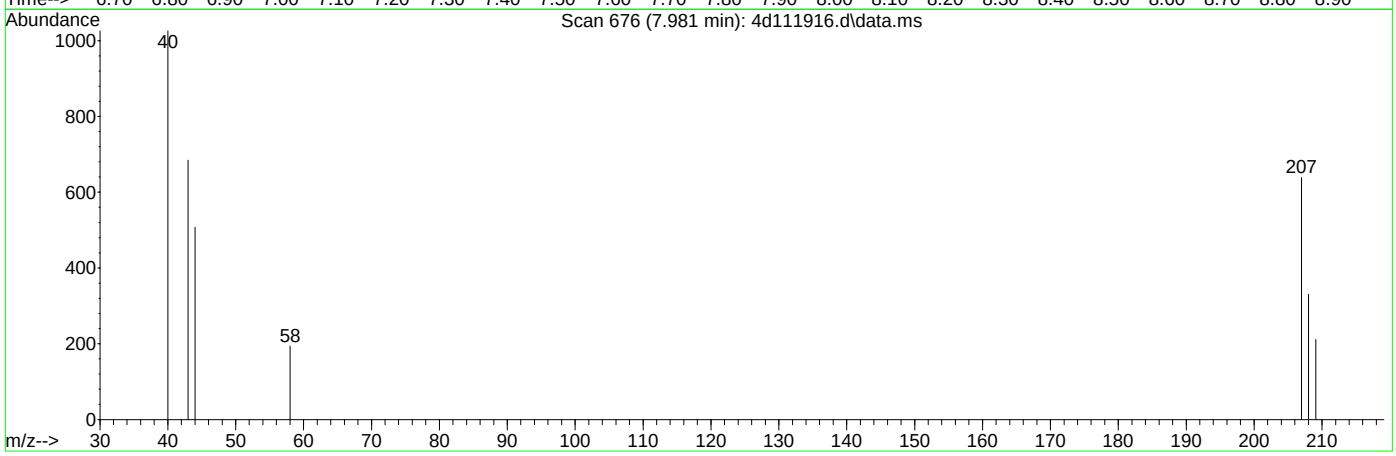
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetone	67-64-1		7.98	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\davem1\08-20-21\v4d4985\
Data File : 4d111916.d
Acq On : 19 Aug 2021 12:24 pm
Operator : jons2
Sample : mb Inst : MS4D
Misc : MS52961,V4D4985,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Results File: M4D4892.RES
Quant Time: Aug 19 12:48:31 2021
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:43:19 2021
Response via : Initial Calibration





TIC: 4d111916.d\data.ms

(19) acetone (M)

7.981min (+0.057) 0.58ug/L

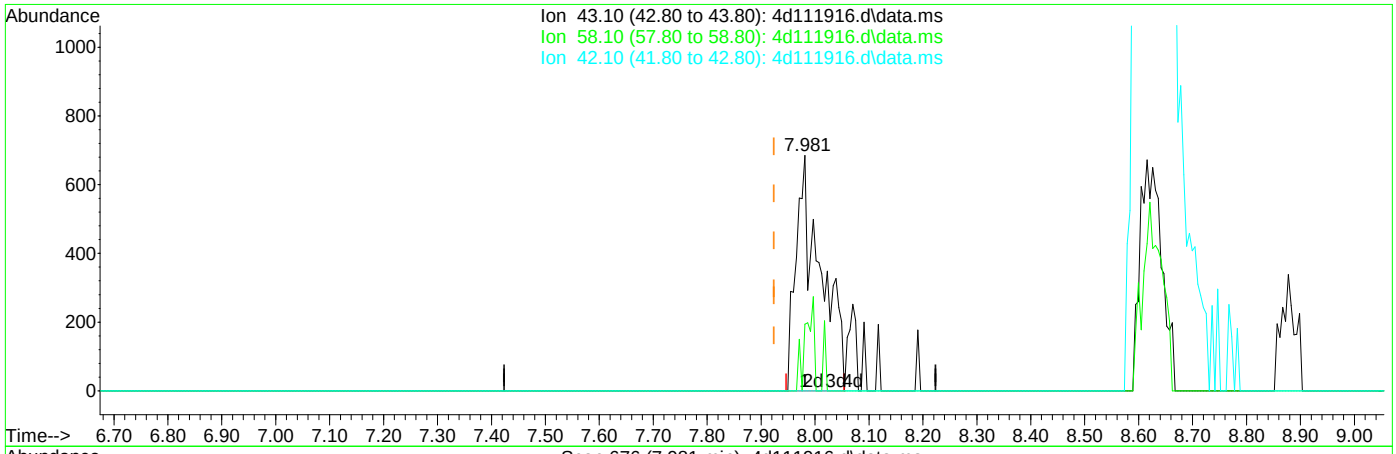
response 1087

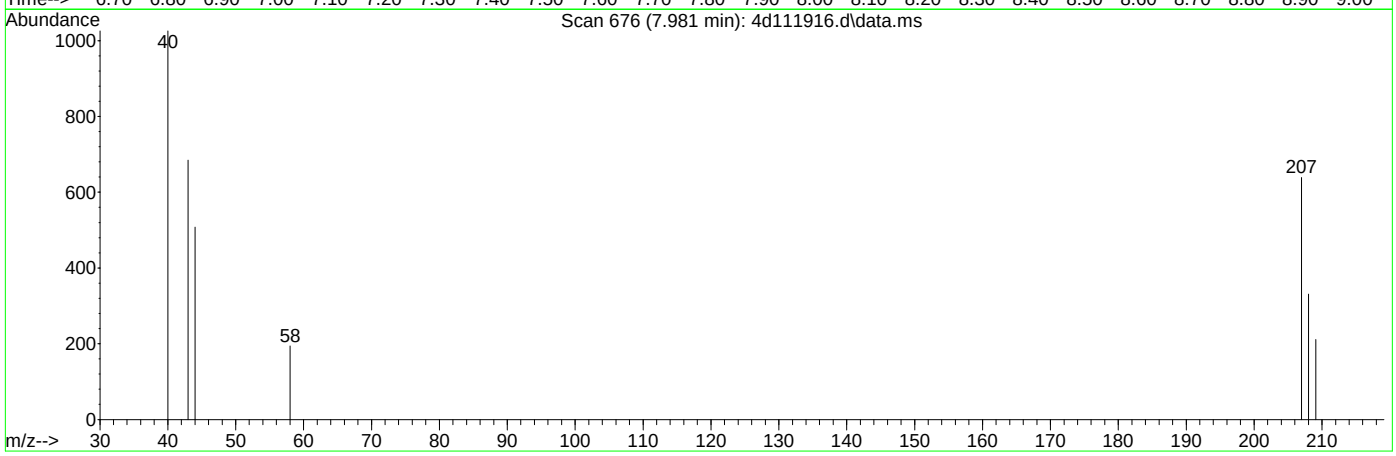
Ion	Exp%	Act%
43.10	100	100
58.10	30.50	28.32
42.10	8.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\davem1\08-20-21\v4d4985\
Data File : 4d111916.d
Acq On : 19 Aug 2021 12:24 pm
Operator : jons2
Sample : mb Inst : MS4D
Misc : MS52961,V4D4985,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Results File: M4D4892.RES
Quant Time: Aug 19 12:48:31 2021
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:43:19 2021
Response via : Initial Calibration





TIC: 4d111916.d\data.ms

(19) acetone (M)

7.981min (+0.057) 1.17ug/L m

response 2181

Ion	Exp%	Act%
43.10	100	100
58.10	30.50	28.32
42.10	8.00	0.00
0.00	0.00	0.00

LSC Area Percent Report

Data Path : C:\msdchem\1\data\davem1\08-20-21\v4d4985\
Data File : 4d111916.d
Acq On : 19 Aug 2021 12:24 pm
Operator : jons2
Sample : mb
Misc : MS52961,V4D4985,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 150 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.6 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um

Signal : TIC: 4d111916.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.521	13	16	27	rVB2	2029	2602	0.12%	0.023%
2	4.903	77	89	92	rBV4	1966	5296	0.24%	0.046%
3	5.003	105	108	110	rBV2	1566	1468	0.07%	0.013%
4	5.040	110	115	118	rBV3	1329	1941	0.09%	0.017%
5	5.071	118	121	125	rVV3	1075	1442	0.07%	0.013%
6	5.270	157	159	162	rVB3	1163	1092	0.05%	0.010%
7	5.312	162	167	168	rBV2	1276	1906	0.09%	0.017%
8	5.428	187	189	195	rVB3	1635	1686	0.08%	0.015%
9	5.879	257	275	283	rBV9	3774	15727	0.72%	0.138%
10	6.188	328	334	338	rVB3	690	1333	0.06%	0.012%
11	6.392	371	373	378	rVV3	1111	990	0.05%	0.009%
12	6.801	447	451	453	rBV2	846	1170	0.05%	0.010%
13	7.079	499	504	508	rVB4	798	1299	0.06%	0.011%
14	7.315	547	549	557	rVB2	850	1014	0.05%	0.009%
15	7.378	557	561	564	rBV2	1064	1187	0.05%	0.010%
16	7.457	575	576	582	rVB3	749	960	0.04%	0.008%
17	7.583	598	600	606	rBV3	858	1391	0.06%	0.012%
18	7.845	646	650	652	rBV2	879	1075	0.05%	0.009%
19	7.981	673	676	680	rVB3	1345	1464	0.07%	0.013%
20	8.149	707	708	713	rBV2	937	1241	0.06%	0.011%
21	8.233	722	724	728	rVB3	1136	1252	0.06%	0.011%
22	8.311	733	739	742	rVB3	1105	1423	0.07%	0.012%
23	8.390	745	754	759	rVV3	1541	3066	0.14%	0.027%
24	8.500	769	775	776	rBV3	922	1346	0.06%	0.012%
25	8.521	776	779	784	rVV2	732	1167	0.05%	0.010%
26	8.621	784	798	832	rBV	243190	700640	32.26%	6.135%
27	8.872	839	846	857	rVB4	6420	17374	0.80%	0.152%
28	9.098	888	889	893	rBV3	1044	1118	0.05%	0.010%
29	9.203	905	909	916	rVB3	736	953	0.04%	0.008%
30	9.648	990	994	998	rVB2	896	1475	0.07%	0.013%
31	9.675	998	999	1005	rBV2	913	1332	0.06%	0.012%
32	9.811	1021	1025	1030	rVB3	1052	1337	0.06%	0.012%
33	10.199	1091	1099	1109	rBV	11823	31133	1.43%	0.273%
34	10.435	1137	1144	1148	rVV6	1583	2851	0.13%	0.025%
35	10.702	1192	1195	1201	rVB3	989	1428	0.07%	0.013%
36	10.749	1201	1204	1207	rBV3	824	989	0.05%	0.009%
37	10.844	1218	1222	1223	rBV3	916	984	0.05%	0.009%
38	10.870	1224	1227	1233	rVB3	804	1356	0.06%	0.012%
39	10.949	1233	1242	1253	rBV7	4478	14137	0.65%	0.124%
40	11.111	1261	1273	1299	rBV	995474	2171587	100.00%	19.016%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\davem1\08-20-21\v4d4985\
Data File : 4d111916.d
Acq On : 19 Aug 2021 12:24 pm
Operator : jons2
Sample : mb
Misc : MS52961,V4D4985,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 150 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.6 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um

41	11.536	1345	1354	1381	rBV	336336	737468	33.96%	6.458%
42	11.835	1406	1411	1414	rBV3	806	1060	0.05%	0.009%
43	11.903	1418	1424	1426	rVB3	785	1188	0.05%	0.010%
44	11.934	1426	1430	1432	rBV3	868	1144	0.05%	0.010%
45	12.002	1432	1443	1470	rVV	784224	1547104	71.24%	13.548%
46	12.165	1471	1474	1476	rVV3	1297	1534	0.07%	0.013%
47	12.196	1479	1480	1486	rVV3	1072	1246	0.06%	0.011%
48	12.343	1504	1508	1514	rVV4	627	996	0.05%	0.009%
49	13.539	1725	1736	1759	rBV	1064375	1854226	85.39%	16.237%
50	13.785	1779	1783	1786	rVB2	803	1258	0.06%	0.011%
51	14.089	1835	1841	1847	rVB2	618	1311	0.06%	0.011%
52	14.897	1986	1995	2013	rBV	988971	1596885	73.54%	13.984%
53	15.001	2013	2015	2021	rVV2	2810	3518	0.16%	0.031%
54	15.112	2033	2036	2042	rVV3	1373	2415	0.11%	0.021%
55	15.369	2079	2085	2088	rVB3	614	953	0.04%	0.008%
56	15.500	2104	2110	2111	rBV2	628	969	0.04%	0.008%
57	15.573	2119	2124	2129	rVB3	714	1670	0.08%	0.015%
58	15.783	2160	2164	2173	rBV4	1186	2328	0.11%	0.020%
59	15.940	2183	2194	2217	rBV	783305	1226161	56.46%	10.737%
60	16.186	2236	2241	2245	rVV3	1298	2068	0.10%	0.018%
61	16.297	2256	2262	2271	rVB3	1452	2200	0.10%	0.019%
62	16.396	2277	2281	2287	rVB4	712	1397	0.06%	0.012%
63	16.616	2317	2323	2327	rBV4	1362	2722	0.13%	0.024%
64	16.653	2327	2330	2334	rVB	1479	1370	0.06%	0.012%
65	16.768	2345	2352	2354	rBV2	749	1271	0.06%	0.011%
66	16.810	2354	2360	2364	rBV4	2265	3686	0.17%	0.032%
67	16.915	2377	2380	2386	rBV3	1950	3447	0.16%	0.030%
68	17.004	2389	2397	2419	rVV	891612	1357752	62.52%	11.889%
69	17.135	2419	2422	2426	rVV4	1084	1715	0.08%	0.015%
70	17.225	2433	2439	2442	rBB3	719	1055	0.05%	0.009%
71	17.329	2452	2459	2466	rBV4	1629	3120	0.14%	0.027%
72	17.492	2488	2490	2498	rVV3	817	1430	0.07%	0.013%
73	18.252	2629	2635	2637	rVB4	736	1184	0.05%	0.010%
74	18.278	2637	2640	2643	rBV3	1446	1384	0.06%	0.012%
75	18.430	2666	2669	2675	rBV3	807	1413	0.07%	0.012%
76	18.562	2692	2694	2702	rVB3	947	1553	0.07%	0.014%
77	18.766	2729	2733	2736	rBV3	952	1267	0.06%	0.011%
78	18.892	2754	2757	2759	rBV2	983	1106	0.05%	0.010%
79	18.934	2759	2765	2769	rVB5	1614	2924	0.13%	0.026%
80	19.033	2781	2784	2788	rVV4	1316	1483	0.07%	0.013%
81	19.086	2793	2794	2799	rVB3	1389	1004	0.05%	0.009%
82	19.138	2799	2804	2807	rVB5	1726	1607	0.07%	0.014%
83	19.175	2807	2811	2821	rBV5	1848	5583	0.26%	0.049%
84	19.285	2829	2832	2836	rVB2	1155	1465	0.07%	0.013%
85	19.411	2849	2856	2858	rBV5	1964	2705	0.12%	0.024%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\davem1\08-20-21\v4d4985\
Data File : 4d111916.d
Acq On : 19 Aug 2021 12:24 pm
Operator : jons2
Sample : mb
Misc : MS52961,V4D4985,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 150 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.6 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um

86	19.453	2858	2864	2866	rVV3	972	1354	0.06%	0.012%
87	19.594	2886	2891	2894	rVV5	918	1055	0.05%	0.009%
88	19.956	2952	2960	2962	rVB7	2087	3626	0.17%	0.032%
89	19.977	2962	2964	2966	rBV2	2063	1612	0.07%	0.014%
90	20.051	2975	2978	2984	rVB7	1219	2088	0.10%	0.018%
91	20.092	2984	2986	2988	rBV2	1484	1297	0.06%	0.011%
92	20.197	3004	3006	3010	rBV4	1280	1739	0.08%	0.015%
93	20.564	3074	3076	3079	rBV4	1371	1047	0.05%	0.009%
94	20.627	3086	3088	3094	rBV4	1408	1665	0.08%	0.015%
95	20.680	3095	3098	3102	rBV5	1183	1503	0.07%	0.013%
96	20.769	3109	3115	3116	rBV4	1703	1998	0.09%	0.017%
97	20.921	3142	3144	3147	rBV4	2372	1773	0.08%	0.016%
98	20.979	3151	3155	3156	rBV3	1726	1610	0.07%	0.014%
99	21.288	3211	3214	3216	rBV2	2188	1586	0.07%	0.014%
100	21.319	3217	3220	3222	rVB4	2434	1229	0.06%	0.011%

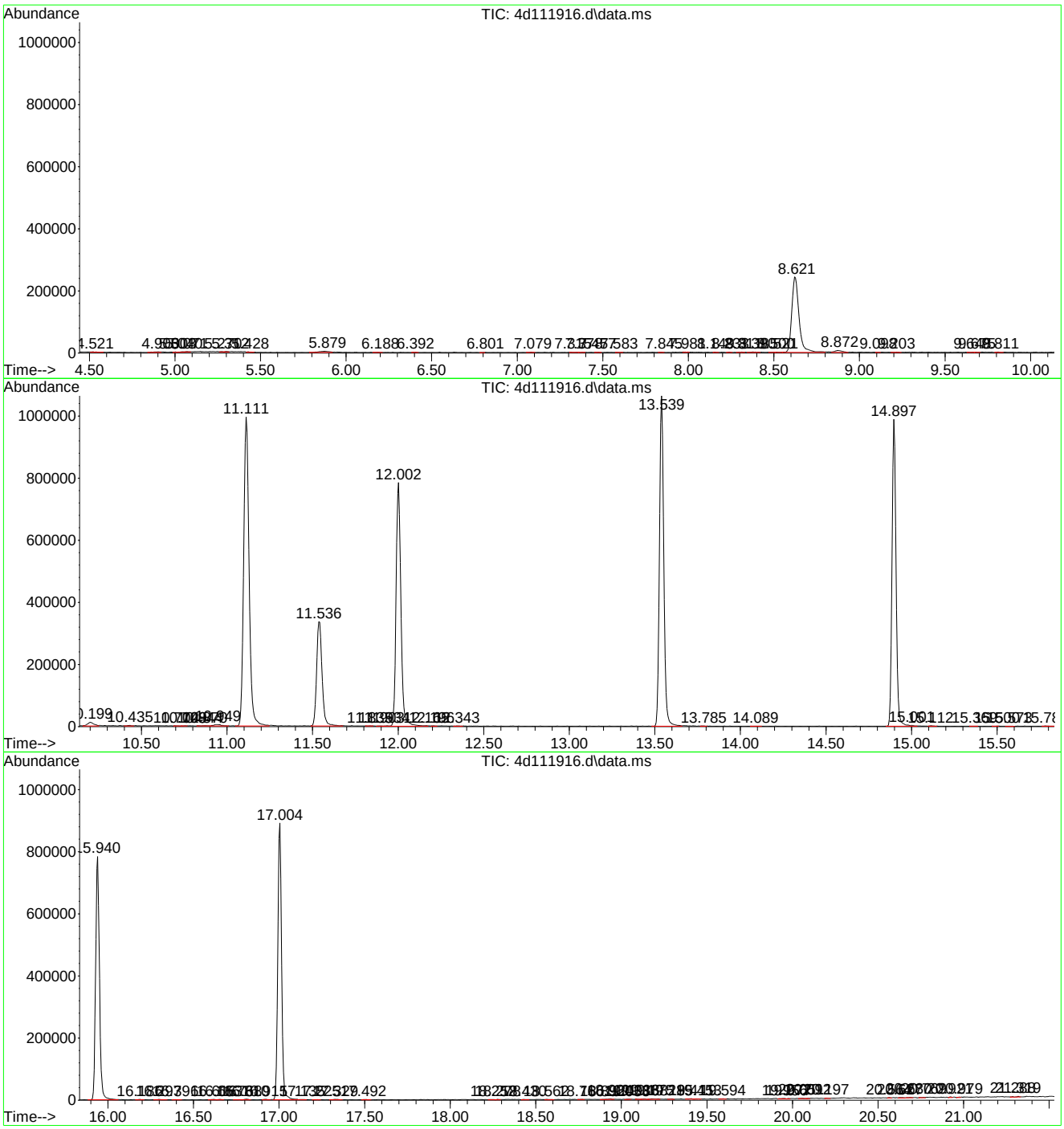
Sum of corrected areas: 11419759

LSC Report - Integrated Chromatogram

```
Data Path : C:\msdchem\1\data\davem1\08-20-21\v4d4985\
Data File : 4d111916.d
Acq On    : 19 Aug 2021  12:24 pm
Operator  : jons2
Sample    : mb
Misc      : MS52961,V4D4985,5,,,,1
ALS Vial  : 8   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title  : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um

TIC Library   : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p
```



Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\data\davem1\08-20-21\v4d4985\
Data File : 4d111916.d
Acq On : 19 Aug 2021 12:24 pm
Operator : jons2
Sample : mb
Misc : MS52961,V4D4985,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v3c7462\
Data File : 3c168624.d
Acq On : 19 Aug 2021 12:54 pm
Operator : PrashanS
Sample : MB Inst : MS3C
Misc : MS53053,V3C7462,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Results File: M3C7415.RES
Quant Time: Aug 20 02:00:34 2021
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Mon Jun 28 17:56:55 2021
Response via : Initial Calibration

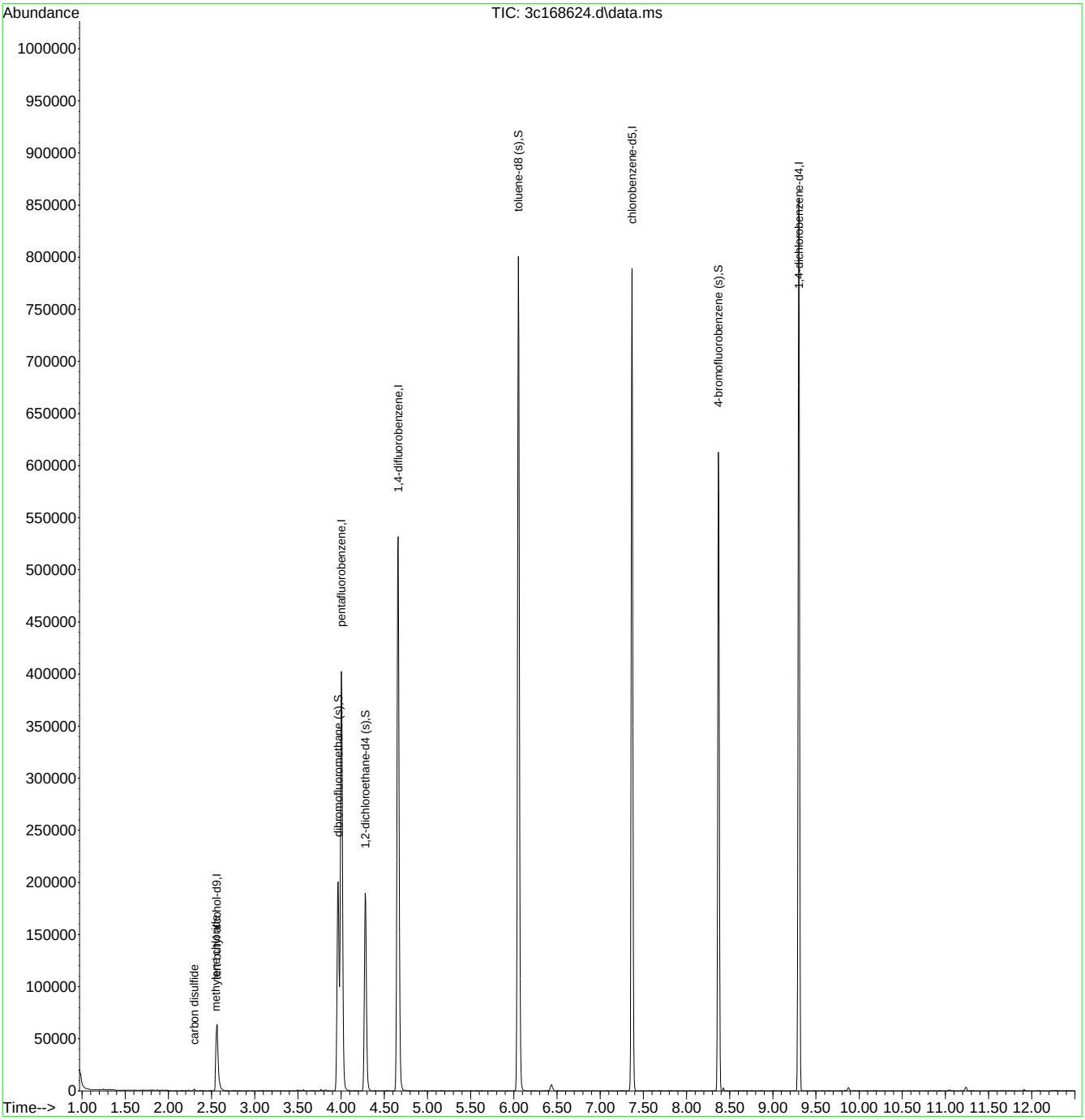
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	2.558	65	64680	500.00	ug/L	0.00
5) pentafluorobenzene	4.002	168	253995	50.00	ug/L	0.00
49) 1,4-difluorobenzene	4.661	114	390185	50.00	ug/L	0.00
71) chlorobenzene-d5	7.370	117	342628	50.00	ug/L	0.00
94) 1,4-dichlorobenzene-d4	9.300	152	165524	50.00	ug/L	0.00
System Monitoring Compounds						
42) dibromofluoromethane (s)	3.965	113	103500	47.34	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 94.68%			
50) 1,2-dichloroethane-d4 (s)	4.279	65	109581	47.36	ug/L	0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 94.72%			
72) toluene-d8 (s)	6.052	98	452966	50.07	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 100.14%			
95) 4-bromofluorobenzene (s)	8.369	95	160406	53.05	ug/L	0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 106.10%			
Target Compounds						Qvalue
20) carbon disulfide	2.297	76	1468	0.26	ug/L	69
21) methylene chloride	2.548	84	1029	0.57	ug/L	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

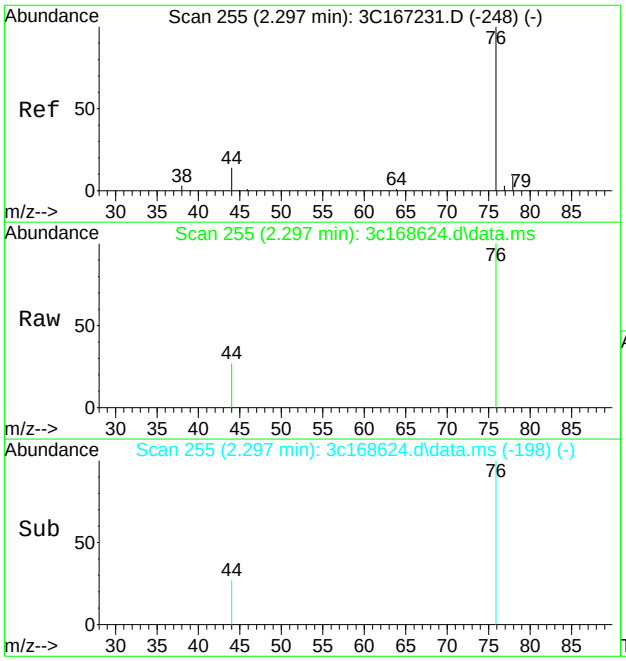
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v3c7462\
Data File : 3c168624.d
Acq On : 19 Aug 2021 12:54 pm
Operator : PrashanS
Sample : MB Inst : MS3C
Misc : MS53053,V3C7462,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Results File: M3C7415.RES
Quant Time: Aug 20 02:00:34 2021
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Mon Jun 28 17:56:55 2021
Response via : Initial Calibration



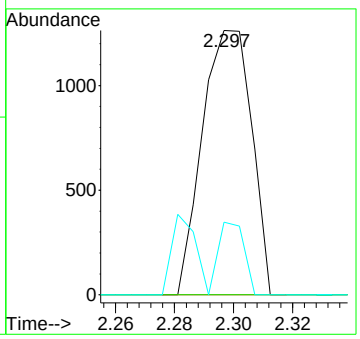
M3C7415.M Fri Aug 20 02:17:36 2021 Page: 2

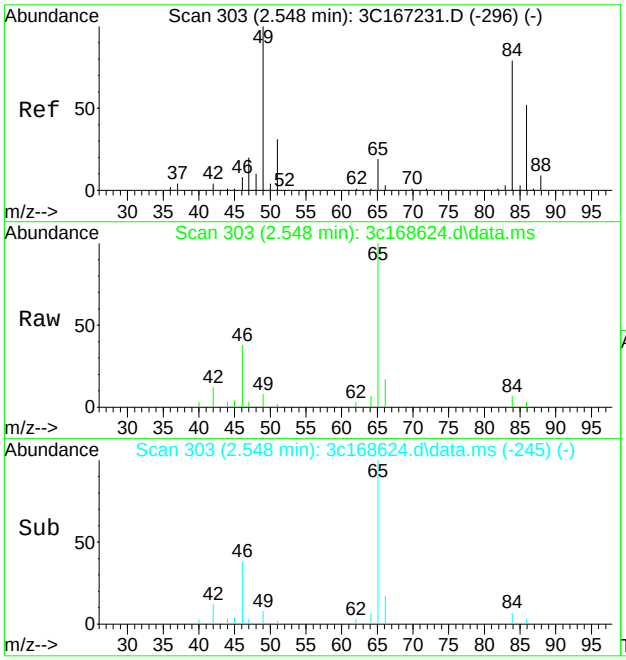


#20
carbon disulfide
Concen: 0.26 ug/L
RT: 2.297 min Scan# 255
Delta R.T. -0.000 min
Lab File: 3c168624.d
Acq: 19 Aug 2021 12:54 pm

Tgt Ion: 76 Resp: 1468

Ion	Ratio	Lower	Upper
76	100		
78	0.0	0.0	39.0
44	27.5	0.0	43.6

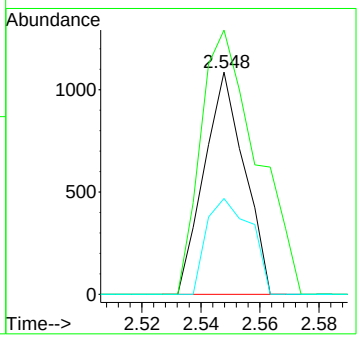




#21
methylene chloride
Concen: 0.57 ug/L
RT: 2.548 min Scan# 303
Delta R.T. 0.001 min
Lab File: 3c168624.d
Acq: 19 Aug 2021 12:54 pm

Tgt Ion: 84 Resp: 1029

Ion	Ratio	Lower	Upper
84	100		
49	119.0	96.3	156.3
86	43.1	35.7	95.7



LSC Area Percent Report

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v3c7462\
Data File : 3c168624.d
Acq On : 19 Aug 2021 12:54 pm
Operator : PrashanS
Sample : MB
Misc : MS53053,V3C7462,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.4 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um

Signal : TIC: 3c168624.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.193	27	44	45	rVB	550	1147	0.10%	0.018%
2	1.245	45	54	63	rBV	912	1403	0.12%	0.022%
3	1.319	65	68	73	rVB	685	628	0.05%	0.010%
4	1.449	87	93	95	rBV	292	182	0.02%	0.003%
5	1.544	109	111	115	rBV	419	399	0.03%	0.006%
6	1.601	117	122	131	rVB	446	724	0.06%	0.011%
7	1.659	131	133	137	rBV	188	260	0.02%	0.004%
8	1.701	139	141	143	rVV	444	257	0.02%	0.004%
9	1.721	143	145	151	rVB	410	390	0.03%	0.006%
10	1.816	151	163	169	rBV	489	863	0.07%	0.014%
11	1.931	177	185	189	rVV	707	993	0.08%	0.016%
12	1.978	189	194	203	rVB	953	1635	0.14%	0.026%
13	2.088	211	215	219	rBB	359	113	0.01%	0.002%
14	2.150	223	227	235	rBB	333	403	0.03%	0.006%
15	2.234	239	243	247	rBB	725	723	0.06%	0.011%
16	2.297	249	255	261	rBB	1611	1896	0.16%	0.030%
17	2.370	265	269	271	rBB	321	101	0.01%	0.002%
18	2.391	271	273	281	rBB	318	300	0.03%	0.005%
19	2.490	285	292	295	rBB	333	395	0.03%	0.006%
20	2.564	297	306	327	rBB	63706	125079	10.51%	1.985%
21	2.977	381	385	389	rBB	320	100	0.01%	0.002%
22	3.081	403	405	413	rBB	303	190	0.02%	0.003%
23	3.510	479	487	493	rBB	856	1680	0.14%	0.027%
24	3.562	495	497	503	rBB	1184	908	0.08%	0.014%
25	3.657	511	515	521	rBB	323	496	0.04%	0.008%
26	3.766	529	536	541	rBB	1417	1332	0.11%	0.021%
27	3.824	543	547	557	rBB	898	1233	0.10%	0.020%
28	4.002	565	581	601	rBB2	402517	997948	83.85%	15.837%
29	4.279	625	634	649	rBB	189596	308742	25.94%	4.900%
30	4.525	677	681	687	rBB	341	204	0.02%	0.003%
31	4.661	697	707	729	rBB	531842	876543	73.65%	13.910%
32	5.173	801	805	809	rBB	332	199	0.02%	0.003%
33	5.623	887	891	895	rBB	306	191	0.02%	0.003%
34	6.052	961	973	989	rBB	800884	1190177	100.00%	18.888%
35	6.439	1037	1047	1055	rBB2	5934	10673	0.90%	0.169%
36	6.512	1057	1061	1065	rBB2	317	196	0.02%	0.003%
37	6.920	1135	1139	1143	rBB2	321	101	0.01%	0.002%
38	7.245	1197	1201	1205	rBB2	304	190	0.02%	0.003%
39	7.370	1215	1225	1237	rBB	789028	1012598	85.08%	16.069%
40	7.475	1241	1245	1249	rBB	367	115	0.01%	0.002%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v3c7462\
Data File : 3c168624.d
Acq On : 19 Aug 2021 12:54 pm
Operator : PrashanS
Sample : MB
Misc : MS53053,V3C7462,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.4 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um

41	7.605	1269	1270	1277	rBB	335	207	0.02%	0.003%
42	7.799	1303	1307	1311	rBB	331	104	0.01%	0.002%
43	7.966	1335	1339	1343	rBB	322	101	0.01%	0.002%
44	8.045	1349	1354	1357	rBB	329	202	0.02%	0.003%
45	8.369	1403	1416	1425	rBB	613150	747621	62.82%	11.864%
46	8.427	1425	1427	1433	rBB	3002	2051	0.17%	0.033%
47	8.468	1433	1435	1439	rBB	320	100	0.01%	0.002%
48	8.563	1449	1453	1457	rBB	380	119	0.01%	0.002%
49	9.012	1535	1539	1543	rBB	323	293	0.02%	0.005%
50	9.300	1587	1594	1603	rBB	855617	993597	83.48%	15.768%
51	9.577	1643	1647	1651	rBB	318	100	0.01%	0.002%
52	9.875	1693	1704	1711	rBB	3423	4737	0.40%	0.075%
53	9.990	1723	1726	1731	rBB	442	248	0.02%	0.004%
54	10.205	1765	1767	1771	rBB	367	115	0.01%	0.002%
55	10.644	1847	1851	1855	rBB	341	107	0.01%	0.002%
56	10.942	1901	1908	1909	rBB	352	218	0.02%	0.003%
57	11.052	1921	1929	1935	rBB	963	1332	0.11%	0.021%
58	11.094	1935	1937	1941	rBB	344	222	0.02%	0.004%
59	11.235	1957	1964	1971	rBB	3548	4996	0.42%	0.079%
60	11.544	2015	2023	2027	rBB	316	198	0.02%	0.003%
61	11.659	2037	2045	2049	rBB	356	410	0.03%	0.007%
62	11.805	2069	2073	2077	rBB	333	104	0.01%	0.002%
63	11.910	2089	2093	2101	rBB	1512	1369	0.12%	0.022%
64	12.077	2121	2125	2131	rBB	340	306	0.03%	0.005%
65	12.224	2149	2153	2157	rBB	336	211	0.02%	0.003%
66	12.302	2157	2168	2169	rBB	341	610	0.05%	0.010%

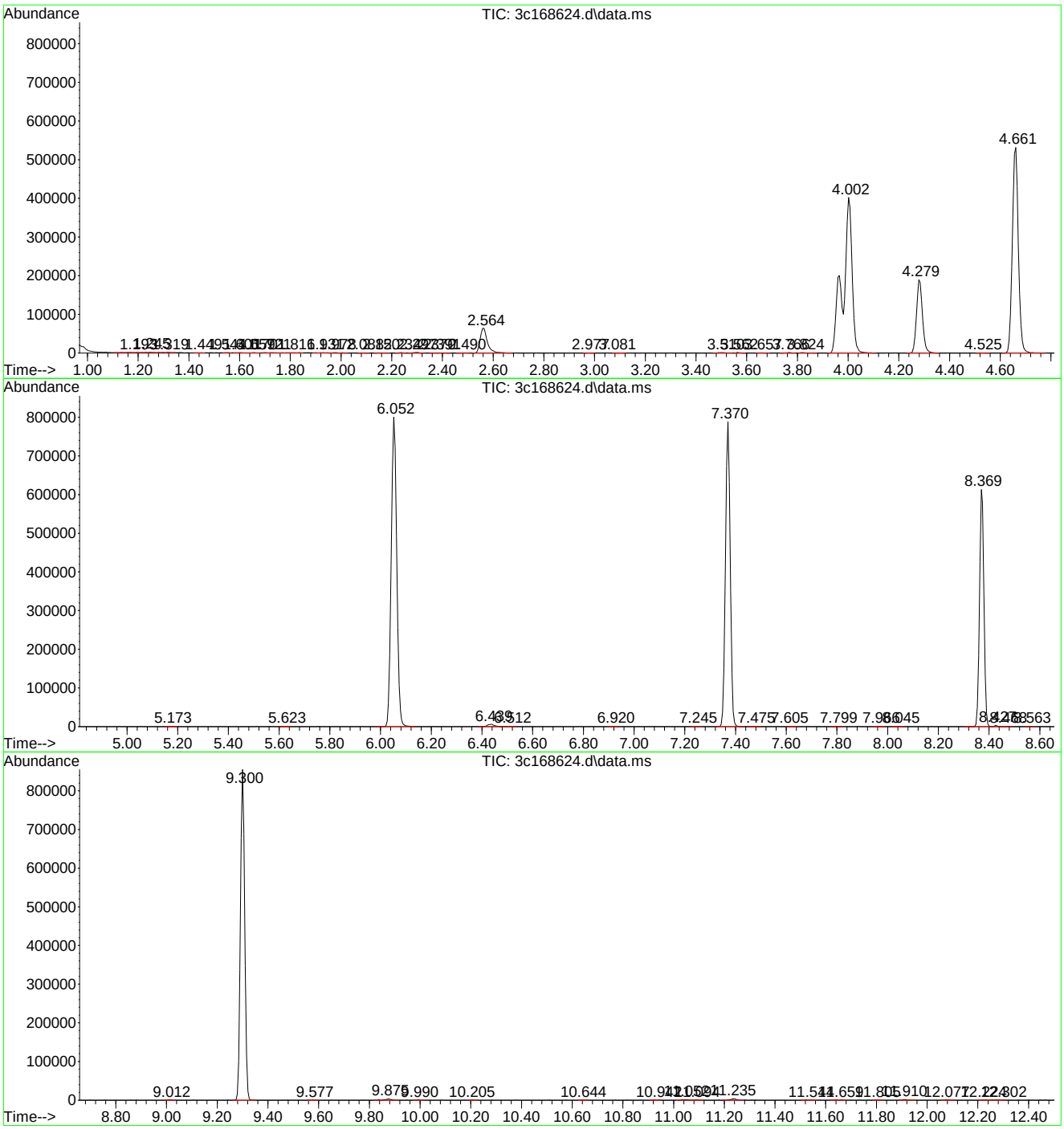
Sum of corrected areas: 6301385

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v3c7462\
Data File : 3c168624.d
Acq On : 19 Aug 2021 12:54 pm
Operator : PrashanS
Sample : MB
Misc : MS53053,V3C7462,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p



Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v3c7462\
Data File : 3c168624.d
Acq On : 19 Aug 2021 12:54 pm
Operator : PrashanS
Sample : MB
Misc : MS53053,V3C7462,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180228.d
Acq On : 18 Aug 2021 11:19 am
Operator : PrashanS
Sample : BS Inst : GCMS1C
Misc : MS53009,V1C7855,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 03:58:11 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.243	65	86835	500.00	ug/L	0.00
5) pentafluorobenzene	9.482	168	219137	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.397	114	344945	50.00	ug/L	0.00
73) chlorobenzene-d5	13.546	117	270466	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.863	152	129402	50.00	ug/L	0.00
125) pentafluorobenzene(a)	9.482	168	219137	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.539	113	105914	52.90	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 105.80%			
52) 1,2-dichloroethane-d4 (s)	9.963	65	105442	53.25	ug/L	0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 106.50%			
74) toluene-d8 (s)	12.034	98	370105	51.88	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 103.76%			
97) 4-bromofluorobenzene (s)	14.701	95	126420	50.16	ug/L	0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 100.32%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.358	59	48252	228.59	ug/L	98
3) ethanol	6.004	45	103628	4895.57	ug/L	98
4) 1,4-dioxane	11.129	88	24244	1242.64	ug/L	99
6) dichlorodifluoromethane	3.791	85	112870	39.09	ug/L	98
7) chlorodifluoromethane	3.823	51	109253	56.02	ug/L	98
8) chloromethane	4.199	50	129367	41.93	ug/L	98
9) vinyl chloride	4.424	62	118461	44.49	ug/L	100
10) 1,3-butadiene	4.497	54	85536	47.94	ug/L	98
11) bromomethane	5.093	94	68514	39.54	ug/L	96
12) chloroethane	5.271	64	62189	46.23	ug/L	99
13) trichlorofluoromethane	5.705	101	136640	46.51	ug/L	99
14) ethyl ether	6.145	74	40984	51.22	ug/L	97
15) acrolein	6.417	56	12258	44.31	ug/L	94
16) freon 113	6.500	151	66484	48.25	ug/L	96
17) 1,1-dichloroethene	6.563	96	73832	45.34	ug/L	90
18) acetone	6.631	43	96843	184.47	ug/L	100
19) acetonitrile	7.086	41	106917	515.42	ug/L	98
20) iodomethane	6.851	142	92387	45.98	ug/L	99
21) carbon disulfide	6.966	76	267402	47.34	ug/L	100
22) methylene chloride	7.295	84	89081	48.25	ug/L	97
23) methyl acetate	7.091	43	61829	50.54	ug/L	99
24) methyl tert butyl ether	7.594	73	207194	52.09	ug/L	100
25) trans-1,2-dichloroethene	7.662	96	85435	46.38	ug/L	93
26) di-isopropyl ether	8.190	45	295673	51.79	ug/L	99
27) 2-butanone	8.938	72	35103	209.36	ug/L #	88
28) 1,1-dichloroethane	8.237	63	158534	52.23	ug/L	99
29) chloroprene	8.336	53	125852	50.73	ug/L	98
30) acrylonitrile	7.635	53	24335	46.63	ug/L	98
31) hexane	7.949	57	139861	47.55	ug/L	100
32) vinyl acetate	8.221	86	12127	48.19	ug/L #	78
33) ethyl tert-butyl ether	8.650	59	266138	51.79	ug/L	99
34) ethyl acetate	8.953	45	11568	48.02	ug/L #	35
35) 2,2-dichloropropane	8.959	77	131884	50.79	ug/L	98
36) cis-1,2-dichloroethene	8.974	96	92766	47.40	ug/L	99
37) methyl acrylate	9.032	85	11573	54.60	ug/L	96
38) propionitrile	9.053	54	113443	542.03	ug/L	98
39) bromochloromethane	9.283	128	41062	47.46	ug/L	93
40) tetrahydrofuran	9.320	42	27632	50.45	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180228.d
Acq On : 18 Aug 2021 11:19 am
Operator : PrashanS
Sample : BS Inst : GCMS1C
Misc : MS53009,V1C7855,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 03:58:11 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) chloroform	9.340	85	103369	48.65	ug/L		99
42) t-butyl formate	9.356	59	64538	51.11	ug/L		99
44) methacrylonitrile	9.231	67	31056	51.95	ug/L		97
45) 1,1,1-trichloroethane	9.576	97	135295	51.10	ug/L		99
46) cyclohexane	9.639	84	112185	43.90	ug/L		89
47) 1,1-dichloropropene	9.759	75	121301	51.52	ug/L		99
48) iso-butyl alcohol	9.780	43	33641	455.08	ug/L		95
49) carbon tetrachloride	9.780	117	117923	50.65	ug/L		98
50) tert amyl alcohol	9.890	55	14887	244.09	ug/L		89
53) n-butyl alcohol	10.528	56	120861	2558.96	ug/L		99
54) 2,2,4-trimethylpentane	9.994	57	352738	44.71	ug/L		99
55) benzene	10.026	78	337250	47.43	ug/L		100
56) tert-amyl methyl ether	10.041	87	52832	47.57	ug/L		96
57) heptane	10.172	71	75477	44.47	ug/L		98
58) isopropyl acetate	9.942	87	15527	49.25	ug/L	#	88
59) 1,2-dichloroethane	10.052	62	98293	46.90	ug/L		97
60) trichloroethene	10.742	130	92862	48.20	ug/L		99
61) ethyl acrylate	10.742	55	97273	48.42	ug/L		99
63) 2-chloroethyl vinyl ether	11.537	63	245425	240.63	ug/L		99
64) methyl methacrylate	11.009	100	17427	49.55	ug/L		97
65) 1,2-dichloropropane	11.014	63	90389	49.72	ug/L		99
66) dibromomethane	11.176	93	49859	47.53	ug/L		99
67) methylcyclohexane	10.941	83	147597	45.64	ug/L		98
68) bromodichloromethane	11.302	83	116529	49.23	ug/L		99
69) epichlorohydrin	11.668	57	40692	243.57	ug/L		99
70) cis-1,3-dichloropropene	11.757	75	141877	48.86	ug/L		97
71) 4-methyl-2-pentanone	11.846	58	111018	187.03	ug/L		99
72) 3-methyl-1-butanol	11.867	55	70332	908.66	ug/L		99
75) toluene	12.112	92	195432	46.66	ug/L		99
76) trans-1,3-dichloropropene	12.316	75	117149	52.59	ug/L		99
77) ethyl methacrylate	12.296	69	90466	48.96	ug/L		97
78) 1,1,2-trichloroethane	12.536	83	57842	49.22	ug/L		98
79) tetrachloroethene	12.693	164	69352	47.80	ug/L		98
80) 1,3-dichloropropane	12.714	76	104655	48.68	ug/L		99
81) 2-hexanone	12.693	58	106586	198.30	ug/L		96
82) butyl acetate	12.761	56	45916	47.62	ug/L		95
83) dibromochloromethane	12.981	129	83107	49.91	ug/L		99
84) 1,2-dibromoethane	13.127	107	68849	49.85	ug/L		100
85) n-butyl ether	13.472	57	342101	46.50	ug/L		99
86) chlorobenzene	13.577	112	201660	46.73	ug/L		98
87) 1,1,1,2-tetrachloroethane	13.640	131	76730	47.99	ug/L		97
88) ethylbenzene	13.624	91	357214	45.94	ug/L		99
89) m,p-xylene	13.734	106	264328	92.79	ug/L		99
90) o-xylene	14.147	106	128344	46.76	ug/L		99
91) styrene	14.163	104	219011	46.52	ug/L		98
92) bromoform	14.440	173	56899	48.76	ug/L		99
93) butyl acrylate	13.974	55	134423	46.07	ug/L		98
94) isopropylbenzene	14.487	105	346159	46.38	ug/L		100
95) cis-1,4-dichloro-2-butene	14.576	88	28931	50.87	ug/L		93
98) bromobenzene	14.895	156	88181	46.64	ug/L		95
99) 1,1,2,2-tetrachloroethane	14.811	83	81021	45.93	ug/L		98
100) trans-1,4-dichloro-2-b...	14.848	53	22233	48.68	ug/L		97
101) 1,2,3-trichloropropane	14.884	110	19373	48.25	ug/L		97
102) n-propylbenzene	14.895	91	417305	45.14	ug/L		99
103) 2-chlorotoluene	15.047	126	81725	46.96	ug/L		95
104) 4-chlorotoluene	15.146	91	245318	44.53	ug/L		100
105) 1,3,5-trimethylbenzene	15.041	105	275638	46.70	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180228.d
Acq On : 18 Aug 2021 11:19 am
Operator : PrashanS
Sample : BS Inst : GCMS1C
Misc : MS53009,V1C7855,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 03:58:11 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

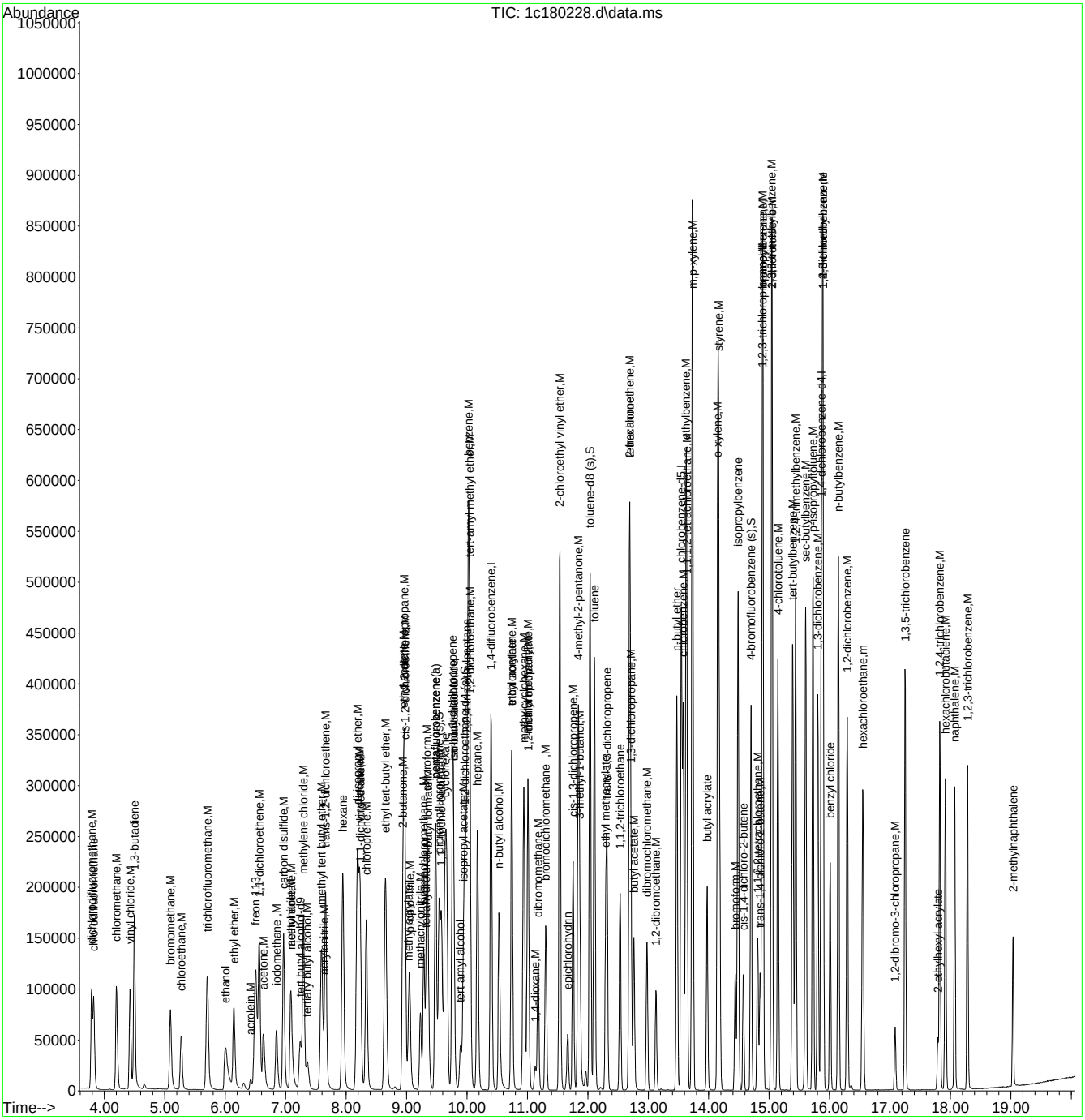
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) tert-butylbenzene	15.392	134	51367	46.30	ug/L	95
107) 1,2,4-trimethylbenzene	15.439	105	281862	47.41	ug/L	99
108) sec-butylbenzene	15.606	105	373284	46.22	ug/L	99
109) 1,3-dichlorobenzene	15.805	146	164345	47.25	ug/L	97
110) p-isopropyltoluene	15.727	119	310543	46.63	ug/L	98
111) 1,2,3-trimethylbenzene	15.889	105	277035	45.53	ug/L	98
112) 1,4-dichlorobenzene	15.889	146	159255	45.26	ug/L	98
113) benzyl chloride	16.009	91	166562	49.90	ug/L	99
114) 1,2-dichlorobenzene	16.291	146	158823	47.45	ug/L	99
115) n-butylbenzene	16.145	92	172817	47.31	ug/L	99
116) 1,2-dibromo-3-chloropr...	17.086	75	16045	50.89	ug/L	95
117) 1,3,5-trichlorobenzene	17.254	180	131688	49.74	ug/L	99
118) 2-ethylhexyl acrylate	17.793	70	13005	8.22	ug/L	96
119) 1,2,4-trichlorobenzene	17.824	180	107032	48.98	ug/L	98
120) hexachlorobutadiene	17.918	225	65270	50.02	ug/L	98
121) naphthalene	18.070	128	209651	46.31	ug/L	99
122) 1,2,3-trichlorobenzene	18.284	180	95829	49.36	ug/L	97
123) hexachloroethane	16.553	201	60510	51.96	ug/L	100
124) 2-methylnaphthalene	19.037	142	64899	23.86	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180228.d
Acq On : 18 Aug 2021 11:19 am
Operator : PrashanS
Sample : BS Inst : GCMS1C
Misc : MS53009,V1C7855,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 03:58:11 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\08-20-21\v1c7856-rush\
Data File : 1c180257.d
Acq On : 19 Aug 2021 10:55 am
Operator : PrashanS
Sample : BS Inst : GCMS1C
Misc : MS53008,V1C7856,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 13:04:55 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.243	65	91642	500.00	ug/L	0.00
5) pentafluorobenzene	9.482	168	229162	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.397	114	359293	50.00	ug/L	0.00
73) chlorobenzene-d5	13.546	117	281942	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.868	152	135009	50.00	ug/L	0.00
125) pentafluorobenzene(a)	9.482	168	229162	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.539	113	109884	52.49	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 104.98%			
52) 1,2-dichloroethane-d4 (s)	9.963	65	109367	53.02	ug/L	0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 106.04%			
74) toluene-d8 (s)	12.034	98	381935	51.36	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 102.72%			
97) 4-bromofluorobenzene (s)	14.701	95	130692	49.70	ug/L	0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 99.40%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.353	59	47281	212.24	ug/L	97
3) ethanol	6.003	45	97737	4375.07	ug/L	100
4) 1,4-dioxane	11.129	88	23663	1149.24	ug/L	96
6) dichlorodifluoromethane	3.791	85	108396	35.90	ug/L	97
7) chlorodifluoromethane	3.822	51	106050	52.00	ug/L	99
8) chloromethane	4.199	50	126671	39.26	ug/L	100
9) vinyl chloride	4.424	62	113376	40.72	ug/L	100
10) 1,3-butadiene	4.497	54	80017	42.89	ug/L	99
11) bromomethane	5.093	94	68808	37.97	ug/L	98
12) chloroethane	5.271	64	58350	41.48	ug/L	98
13) trichlorofluoromethane	5.705	101	129500	42.15	ug/L	99
14) ethyl ether	6.145	74	39292	46.96	ug/L	99
15) acrolein	6.422	56	11191	38.69	ug/L	99
16) freon 113	6.506	151	62546	43.40	ug/L	97
17) 1,1-dichloroethene	6.563	96	67955	39.90	ug/L	93
18) acetone	6.631	43	96499	175.77	ug/L	97
19) acetonitrile	7.081	41	101593	468.33	ug/L	99
20) iodomethane	6.851	142	83157	40.09	ug/L	99
21) carbon disulfide	6.966	76	244249	41.35	ug/L	100
22) methylene chloride	7.295	84	82884	42.93	ug/L	98
23) methyl acetate	7.091	43	58726	45.91	ug/L	100
24) methyl tert butyl ether	7.593	73	202224	48.62	ug/L	99
25) trans-1,2-dichloroethene	7.661	96	78716	40.86	ug/L	94
26) di-isopropyl ether	8.184	45	279217	46.77	ug/L	98
27) 2-butanone	8.938	72	33979	193.79	ug/L	93
28) 1,1-dichloroethane	8.232	63	145498	45.84	ug/L	99
29) chloroprene	8.336	53	114708	44.21	ug/L	99
30) acrylonitrile	7.641	53	21818	39.98	ug/L	94
31) hexane	7.944	57	125911	40.94	ug/L	97
32) vinyl acetate	8.221	86	12428	47.23	ug/L	96
33) ethyl tert-butyl ether	8.650	59	257717	47.96	ug/L	99
34) ethyl acetate	8.948	45	11573	45.94	ug/L #	68
35) 2,2-dichloropropane	8.959	77	122812	45.23	ug/L	98
36) cis-1,2-dichloroethene	8.974	96	85379	41.72	ug/L	96
37) methyl acrylate	9.032	85	11125	50.19	ug/L	98
38) propionitrile	9.053	54	108909	497.60	ug/L	95
39) bromochloromethane	9.288	128	39321	43.46	ug/L	95
40) tetrahydrofuran	9.319	42	26435	46.15	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\08-20-21\v1c7856-rush\
Data File : 1c180257.d
Acq On : 19 Aug 2021 10:55 am
Operator : PrashanS
Sample : BS Inst : GCMS1C
Misc : MS53008,V1C7856,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 13:04:55 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) chloroform	9.340	85	95834	43.13	ug/L		98
42) t-butyl formate	9.356	59	61695	46.72	ug/L		98
44) methacrylonitrile	9.225	67	29626	47.39	ug/L		95
45) 1,1,1-trichloroethane	9.576	97	122822	44.36	ug/L		98
46) cyclohexane	9.639	84	105456	39.46	ug/L		95
47) 1,1-dichloropropene	9.759	75	108717	44.15	ug/L		99
48) iso-butyl alcohol	9.780	43	33231	429.87	ug/L		99
49) carbon tetrachloride	9.774	117	106578	43.78	ug/L		99
50) tert amyl alcohol	9.890	55	14791	231.90	ug/L		90
53) n-butyl alcohol	10.533	56	119145	2421.89	ug/L		98
54) 2,2,4-trimethylpentane	9.994	57	319275	38.85	ug/L		99
55) benzene	10.026	78	308464	41.65	ug/L		99
56) tert-amyl methyl ether	10.041	87	51566	44.57	ug/L		97
57) heptane	10.177	71	66363	37.54	ug/L		97
58) isopropyl acetate	9.937	87	15645	47.64	ug/L	#	93
59) 1,2-dichloroethane	10.052	62	93235	42.71	ug/L		98
60) trichloroethene	10.742	130	85099	42.41	ug/L		100
61) ethyl acrylate	10.742	55	94569	45.20	ug/L		100
63) 2-chloroethyl vinyl ether	11.537	63	234723	220.95	ug/L		99
64) methyl methacrylate	11.009	100	17130	46.76	ug/L		96
65) 1,2-dichloropropane	11.014	63	84122	44.43	ug/L		99
66) dibromomethane	11.176	93	47859	43.80	ug/L		98
67) methylcyclohexane	10.941	83	133827	39.73	ug/L		97
68) bromodichloromethane	11.302	83	109883	44.57	ug/L		100
69) epichlorohydrin	11.668	57	39035	224.32	ug/L		96
70) cis-1,3-dichloropropene	11.757	75	132524	43.82	ug/L		99
71) 4-methyl-2-pentanone	11.846	58	106417	172.12	ug/L		99
72) 3-methyl-1-butanol	11.867	55	68363	847.95	ug/L		98
75) toluene	12.112	92	181189	41.50	ug/L		97
76) trans-1,3-dichloropropene	12.316	75	110337	47.51	ug/L		98
77) ethyl methacrylate	12.295	69	86861	45.09	ug/L		97
78) 1,1,2-trichloroethane	12.531	83	55668	45.45	ug/L		98
79) tetrachloroethene	12.693	164	62718	41.47	ug/L		97
80) 1,3-dichloropropane	12.714	76	100040	44.64	ug/L		97
81) 2-hexanone	12.693	58	102758	183.40	ug/L		98
82) butyl acetate	12.761	56	44545	44.32	ug/L		97
83) dibromochloromethane	12.981	129	80128	46.16	ug/L		99
84) 1,2-dibromoethane	13.127	107	66448	46.16	ug/L		98
85) n-butyl ether	13.472	57	310871	40.54	ug/L		99
86) chlorobenzene	13.577	112	188999	42.01	ug/L		99
87) 1,1,1,2-tetrachloroethane	13.640	131	72531	43.52	ug/L		97
88) ethylbenzene	13.624	91	324098	39.98	ug/L		99
89) m,p-xylene	13.734	106	241812	81.43	ug/L		99
90) o-xylene	14.152	106	120015	41.94	ug/L		98
91) styrene	14.163	104	203109	41.38	ug/L		97
92) bromoform	14.440	173	54910	45.14	ug/L		99
93) butyl acrylate	13.974	55	129633	42.62	ug/L		98
94) isopropylbenzene	14.487	105	318815	40.98	ug/L		99
95) cis-1,4-dichloro-2-butene	14.576	88	28526	48.12	ug/L		91
98) bromobenzene	14.895	156	83544	42.35	ug/L		93
99) 1,1,2,2-tetrachloroethane	14.811	83	77197	41.94	ug/L		98
100) trans-1,4-dichloro-2-b...	14.848	53	21353	44.81	ug/L		92
101) 1,2,3-trichloropropane	14.884	110	19100	45.60	ug/L		89
102) n-propylbenzene	14.895	91	380393	39.44	ug/L		99
103) 2-chlorotoluene	15.047	126	76121	41.92	ug/L		95
104) 4-chlorotoluene	15.146	91	224936	39.14	ug/L		99
105) 1,3,5-trimethylbenzene	15.041	105	253500	41.17	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\08-20-21\v1c7856-rush\
Data File : 1c180257.d
Acq On : 19 Aug 2021 10:55 am
Operator : PrashanS
Sample : BS Inst : GCMS1C
Misc : MS53008,V1C7856,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 13:04:55 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

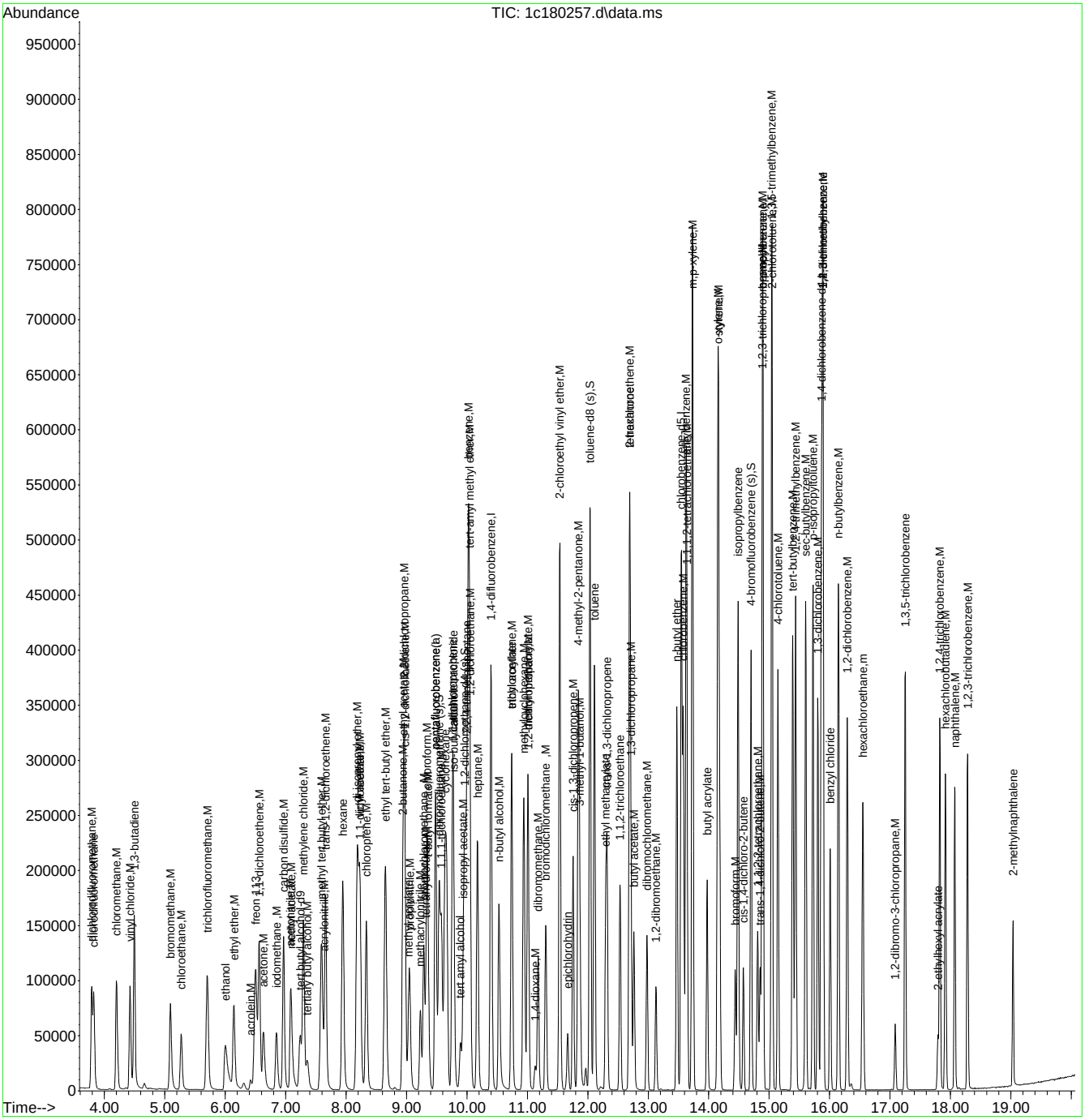
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) tert-butylbenzene	15.392	134	46880	40.50	ug/L	94
107) 1,2,4-trimethylbenzene	15.439	105	257767	41.55	ug/L	98
108) sec-butylbenzene	15.606	105	339185	40.25	ug/L	98
109) 1,3-dichlorobenzene	15.805	146	152963	42.15	ug/L	99
110) p-isopropyltoluene	15.727	119	281738	40.55	ug/L	99
111) 1,2,3-trimethylbenzene	15.889	105	254096	40.02	ug/L	99
112) 1,4-dichlorobenzene	15.889	146	147395	40.15	ug/L	99
113) benzyl chloride	16.009	91	164666	47.28	ug/L	97
114) 1,2-dichlorobenzene	16.291	146	146655	42.00	ug/L	98
115) n-butylbenzene	16.145	92	155114	40.70	ug/L	100
116) 1,2-dibromo-3-chloropr...	17.086	75	15296	46.50	ug/L	99
117) 1,3,5-trichlorobenzene	17.254	180	121939	44.14	ug/L	98
118) 2-ethylhexyl acrylate	17.792	70	12655	7.67	ug/L	96
119) 1,2,4-trichlorobenzene	17.824	180	101246	44.41	ug/L	99
120) hexachlorobutadiene	17.918	225	60949	44.77	ug/L	99
121) naphthalene	18.075	128	200173	42.38	ug/L	99
122) 1,2,3-trichlorobenzene	18.284	180	91990	45.42	ug/L	99
123) hexachloroethane	16.553	201	54944	45.22	ug/L	99
124) 2-methylnaphthalene	19.037	142	64704	22.80	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\08-20-21\v1c7856-rush\
Data File : 1c180257.d
Acq On : 19 Aug 2021 10:55 am
Operator : PrashanS
Sample : BS Inst : GCMS1C
Misc : MS53008,V1C7856,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 13:04:55 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\08-20-21\v4d4985\
Data File : 4d111914.d
Acq On : 19 Aug 2021 11:27 am
Operator : jons2
Sample : bs Inst : MS4D
Misc : MS52961,V4D4985,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Results File: M4D4892.RES
Quant Time: Aug 19 17:31:35 2021
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:43:19 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.631	65	319159	500.00	ug/L	0.00
5) pentafluorobenzene	11.111	168	408582	50.00	ug/L	0.00
52) 1,4-difluorobenzene	12.003	114	558042	50.00	ug/L	0.00
74) chlorobenzene-d5	14.897	117	464539	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.004	152	213072	50.00	ug/L	0.00
126) pentafluorobenzene(a)	11.111	168	408582	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	11.111	113	194118	50.31	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.62%			
53) 1,2-dichloroethane-d4 (s)	11.536	65	227942	55.68	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 111.36%			
75) toluene-d8 (s)	13.539	98	606574	47.69	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.38%			
98) 4-bromofluorobenzene (s)	15.935	95	217814	46.80	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 93.60%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.757	59	200914	244.00	ug/L	99
3) ethanol	7.168	45	378239	4832.26	ug/L	99
4) 1,4-dioxane	12.658	88	79055	1148.05	ug/L	92
6) chlorodifluoromethane	4.652	51	175555	47.80	ug/L	97
7) dichlorodifluoromethane	4.605	85	145604	27.89	ug/L	99
8) chloromethane	5.113	50	172484	41.61	ug/L	97
9) vinyl chloride	5.360	62	169958	41.73	ug/L	97
10) 1,3-butadiene	5.459	54	138687	40.85	ug/L	98
11) bromomethane	6.130	94	92591	38.64	ug/L	98
12) chloroethane	6.366	64	92230	43.45	ug/L	98
13) trichlorofluoromethane	6.943	101	264677	45.99	ug/L	99
14) vinyl bromide	6.791	106	101680	40.15	ug/L	94
15) ethyl ether	7.467	74	84399	48.56	ug/L	88
16) acrolein	7.672	56	36795	60.61	ug/L	92
17) freon 113	7.918	151	122457	46.63	ug/L	98
18) 1,1-dichloroethene	7.923	96	130786	45.05	ug/L	93
19) acetone	7.923	43	378908	245.37	ug/L	98
20) acetonitrile	8.364	41	318901	512.54	ug/L	96
21) iodomethane	8.212	142	110551	38.28	ug/L	95
22) carbon disulfide	8.374	76	386019	42.99	ug/L	98
23) methylene chloride	8.694	84	160280	48.79	ug/L	92
24) methyl acetate	8.495	43	190245	53.11	ug/L	99
25) methyl tert butyl ether	9.135	73	501273	50.57	ug/L	99
26) trans-1,2-dichloroethene	9.150	96	149175	45.79	ug/L	96
27) di-isopropyl ether	9.816	45	523920	54.36	ug/L	99
28) 2-butanone	10.487	72	123905	212.12	ug/L #	81
29) 1,1-dichloroethane	9.753	63	285353	54.15	ug/L	98
30) chloroprene	9.905	53	244026	58.18	ug/L	96
31) acrylonitrile	9.019	53	72102	53.65	ug/L	96
32) hexane	9.575	56	102216	52.44	ug/L	97
33) vinyl acetate	9.759	86	34299	63.98	ug/L #	68
34) ethyl tert-butyl ether	10.314	59	556814	56.16	ug/L	97
35) ethyl acetate	10.550	70	27712	49.31	ug/L #	81
36) 2,2-dichloropropane	10.566	77	254900	52.76	ug/L	97
37) cis-1,2-dichloroethene	10.540	96	166659	47.43	ug/L	94
38) methyl acrylate	10.629	55	197549	48.23	ug/L	100
39) propionitrile	10.540	54	366435	526.06	ug/L	99
40) bromochloromethate	10.849	128	86226	49.23	ug/L	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\08-20-21\v4d4985\
Data File : 4d111914.d
Acq On : 19 Aug 2021 11:27 am
Operator : jons2
Sample : bs Inst : MS4D
Misc : MS52961,V4D4985,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Results File: M4D4892.RES
Quant Time: Aug 19 17:31:35 2021
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:43:19 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) tetrahydrofuran	10.928	72	35761	48.91	ug/L		92
42) chloroform	10.912	85	203608	50.07	ug/L		99
43) t-butyl formate	10.991	59	176479	65.73	ug/L		96
45) methacrylonitrile	10.770	67	87008	50.73	ug/L		99
46) 1,1,1-trichloroethane	11.227	97	281306	54.39	ug/L		99
47) cyclohexane	11.337	84	184071	41.50	ug/L	#	82
48) 1,1-dichloropropene	11.410	75	209898	51.02	ug/L		99
50) carbon tetrachloride	11.447	117	251125	55.07	ug/L		98
51) tert amyl alcohol	11.489	55	65306	249.28	ug/L		99
54) n-butyl alcohol	12.071	56	441812	2467.67	ug/L		98
55) 2,2,4-trimethylpentane	11.735	57	339816	47.47	ug/L		94
56) benzene	11.657	78	583096	51.04	ug/L		99
57) tert-amyl methyl ether	11.719	87	124872	52.50	ug/L		90
58) heptane	11.892	71	76642	49.97	ug/L		92
59) isopropyl acetate	11.578	87	45996	50.36	ug/L	#	83
60) 1,2-dichloroethane	11.625	62	255279	53.53	ug/L		99
61) trichloroethene	12.338	130	160193	47.46	ug/L		98
62) ethyl acrylate	12.328	55	269413	48.47	ug/L		99
63) 2-nitropropane	12.983	43	80605	49.34	ug/L		98
64) 2-chloroethyl vinyl ether	13.035	63	535320	238.86	ug/L		99
65) methyl methacrylate	12.574	100	52487	47.13	ug/L	#	83
66) 1,2-dichloropropane	12.558	63	152979	51.74	ug/L		99
67) dibromomethane	12.684	93	113538	49.58	ug/L		97
68) methylcyclohexane	12.590	83	208443	47.30	ug/L		98
69) bromodichloromethane	12.805	83	237751	52.13	ug/L		98
70) epichlorohydrin	13.119	57	128585	234.94	ug/L		98
71) cis-1,3-dichloropropene	13.240	75	255596	51.06	ug/L		92
72) 4-methyl-2-pentanone	13.334	58	320863	185.59	ug/L		94
73) 3-methyl-1-butanol	13.319	70	158586	960.12	ug/L		99
76) toluene	13.607	92	339192	46.82	ug/L		99
77) trans-1,3-dichloropropene	13.738	75	240640	49.38	ug/L		99
78) ethyl methacrylate	13.764	69	217419	45.21	ug/L		99
79) 1,1,2-trichloroethane	13.932	83	123702	48.06	ug/L		95
80) tetrachloroethene	14.147	164	127076	48.28	ug/L		99
81) 1,3-dichloropropane	14.100	76	220564	46.75	ug/L		93
82) 2-hexanone	14.100	58	344309	182.90	ug/L		97
83) butyl acetate	14.184	56	123083	44.86	ug/L		96
84) dibromochloromethane	14.341	129	187049	48.89	ug/L		99
85) 1,2-dibromoethane	14.483	107	206836	52.09	ug/L		98
86) n-butyl ether	14.881	57	547435	45.80	ug/L		97
87) chlorobenzene	14.928	112	363579	46.21	ug/L		97
88) 1,1,1,2-tetrachloroethane	14.970	131	152759	50.60	ug/L		98
89) ethylbenzene	14.991	91	625987	47.84	ug/L		99
90) m,p-xylene	15.085	106	469912	96.77	ug/L		96
91) o-xylene	15.463	106	226568	48.08	ug/L		96
92) styrene	15.458	104	393916	49.31	ug/L		98
93) bromoform	15.667	173	150116	49.33	ug/L		95
94) butyl acrylate	15.285	55	313446	44.42	ug/L		99
95) isopropylbenzene	15.778	105	575810	49.21	ug/L		98
96) cis-1,4-dichloro-2-butene	15.788	88	81981	51.66	ug/L		87
99) bromobenzene	16.118	156	171525	47.27	ug/L		95
100) 1,1,2,2-tetrachloroethane	15.987	83	204491	43.55	ug/L		98
101) trans-1,4-dichloro-2-b...	16.034	53	60710	48.44	ug/L		90
102) 1,2,3-trichloropropane	16.066	110	60880	47.42	ug/L		96
103) n-propylbenzene	16.150	91	661972	46.20	ug/L		100
104) 2-chlorotoluene	16.270	126	139494	48.21	ug/L		98
105) 4-chlorotoluene	16.360	91	412669	43.51	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\08-20-21\v4d4985\
Data File : 4d111914.d
Acq On : 19 Aug 2021 11:27 am
Operator : jons2
Sample : bs Inst : MS4D
Misc : MS52961,V4D4985,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Results File: M4D4892.RES
Quant Time: Aug 19 17:31:35 2021
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:43:19 2021
Response via : Initial Calibration

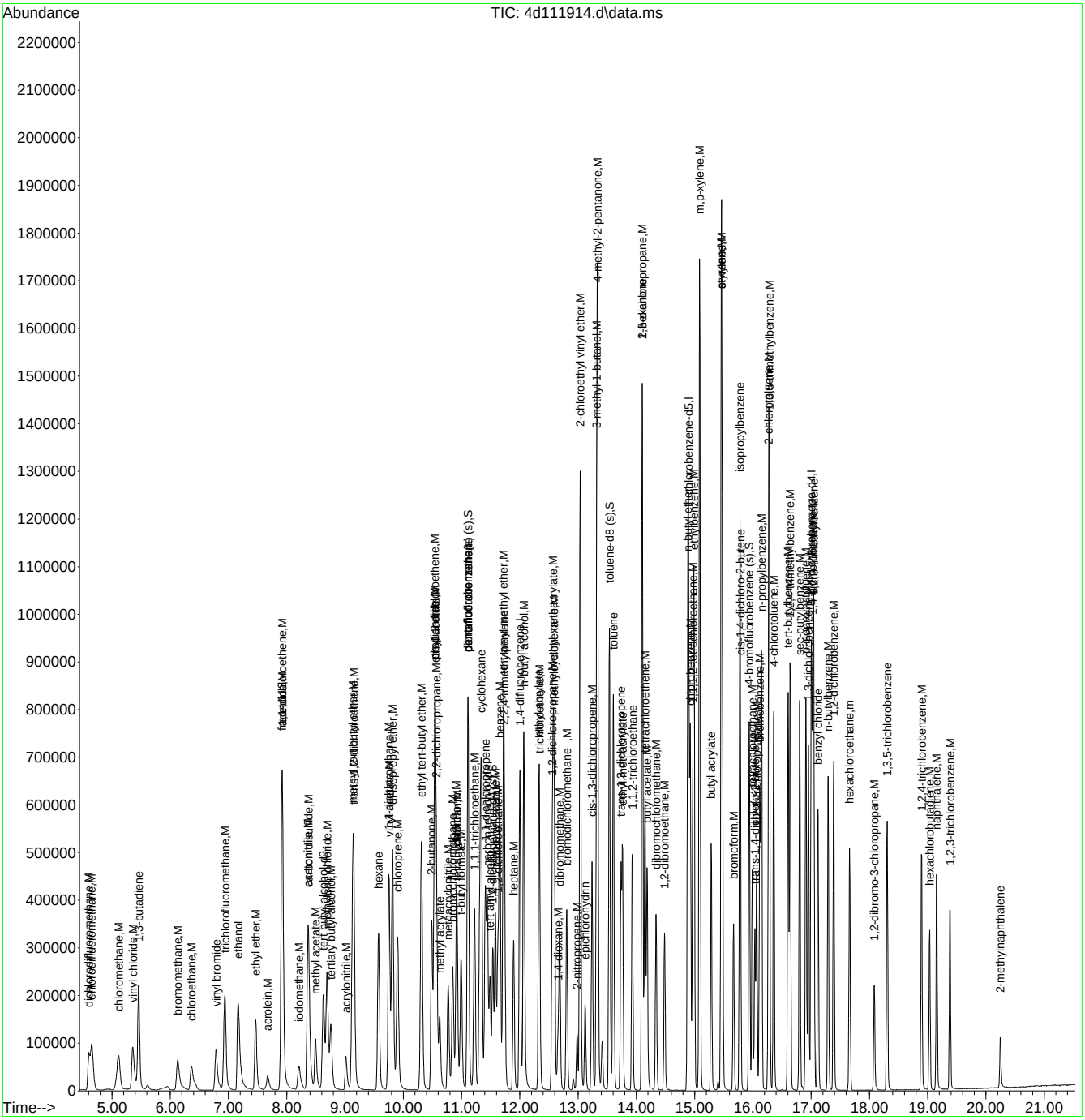
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) 1,3,5-trimethylbenzene	16.281	105	456469	47.15	ug/L	99
107) tert-butylbenzene	16.606	134	80894	46.98	ug/L	98
108) 1,2,4-trimethylbenzene	16.637	105	454284	46.84	ug/L	100
109) sec-butylbenzene	16.805	105	517117	46.33	ug/L	98
110) 1,3-dichlorobenzene	16.952	146	267852	46.10	ug/L	99
111) p-isopropyltoluene	16.910	119	432639	47.45	ug/L	98
112) 1,4-dichlorobenzene	17.025	146	277196	46.56	ug/L	99
113) 1,2,3-trimethylbenzene	17.046	105	456379	46.60	ug/L	99
114) benzyl chloride	17.115	91	386683	46.83	ug/L	97
115) 1,2-dichlorobenzene	17.387	146	256283	46.84	ug/L	99
116) n-butylbenzene	17.293	92	183780	48.35	ug/L	96
117) 1,2-dibromo-3-chloropr...	18.084	157	59919	46.74	ug/L	95
118) 1,3,5-trichlorobenzene	18.305	180	173362	54.71	ug/L	98
120) 1,2,4-trichlorobenzene	18.897	180	137988	53.21	ug/L	97
121) hexachlorobutadiene	19.033	225	68473	52.85	ug/L	97
122) naphthalene	19.154	128	329709	48.42	ug/L	99
123) 1,2,3-trichlorobenzene	19.385	180	114883	50.17	ug/L	100
124) hexachloroethane	17.660	201	87033	47.30	ug/L	97
125) 2-methylnaphthalene	20.245	142	52229	30.51	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\08-20-21\v4d4985\
Data File : 4d111914.d
Acq On : 19 Aug 2021 11:27 am
Operator : jons2
Sample : bs Inst : MS4D
Misc : MS52961,V4D4985,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Results File: M4D4892.RES
Quant Time: Aug 19 17:31:35 2021
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:43:19 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v3c7462\
Data File : 3c168622.d
Acq On : 19 Aug 2021 11:59 am
Operator : PrashanS
Sample : BS Inst : MS3C
Misc : MS52986,V3C7462,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Results File: M3C7415.RES
Quant Time: Aug 20 01:56:25 2021
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Mon Jun 28 17:56:55 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	2.558	65	65386	500.00	ug/L		0.00
5) pentafluorobenzene	4.002	168	271750	50.00	ug/L		0.00
49) 1,4-difluorobenzene	4.661	114	418144	50.00	ug/L		0.00
71) chlorobenzene-d5	7.370	117	359505	50.00	ug/L		0.00
94) 1,4-dichlorobenzene-d4	9.300	152	178974	50.00	ug/L		0.00
System Monitoring Compounds							
42) dibromofluoromethane (s)	3.965	113	113423	48.49	ug/L		0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 96.98%				
50) 1,2-dichloroethane-d4 (s)	4.279	65	118062	47.61	ug/L		0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 95.22%				
72) toluene-d8 (s)	6.052	98	487456	51.35	ug/L		0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 102.70%				
95) 4-bromofluorobenzene (s)	8.369	95	174274	53.31	ug/L		0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 106.62%				
Target Compounds							Qvalue
3) tertiary butyl alcohol	2.621	59	32938	249.76	ug/L		94
4) 1,4-dioxane	5.262	88	24385	1325.94	ug/L		93
6) dichlorodifluoromethane	1.078	85	102078	38.90	ug/L		99
7) chloromethane	1.235	50	143548	51.62	ug/L		98
8) 1,3-butadiene	1.314	54	96208	50.47	ug/L		99
9) vinyl chloride	1.293	62	125552	51.61	ug/L		98
10) bromomethane	1.533	94	46482	32.23	ug/L		100
11) chloroethane	1.606	64	76143	50.41	ug/L		99
12) trichlorofluoromethane	1.763	101	130511	42.64	ug/L		100
13) ethyl ether	1.978	74	50474	51.11	ug/L		89
14) acrolein	2.124	56	11038	49.53	ug/L		88
15) freon 113	2.119	151	69615	44.33	ug/L		96
16) 1,1-dichloroethene	2.145	96	82945	50.53	ug/L		98
17) acetone	2.234	43	78308	197.12	ug/L		97
18) acetonitrile	2.490	41	103301	632.72	ug/L		98
19) iodomethane	2.276	142	98248	40.85	ug/L		94
20) carbon disulfide	2.297	76	276099	45.51	ug/L		99
21) methylene chloride	2.548	84	94589	48.87	ug/L		97
22) methyl acetate	2.449	43	59052	52.17	ug/L		96
23) methyl tert butyl ether	2.689	73	221540	48.64	ug/L		98
24) trans-1,2-dichloroethene	2.715	96	97920	49.79	ug/L		100
25) hexane	2.856	57	177616	47.97	ug/L		98
26) di-isopropyl ether	3.050	45	352294	56.55	ug/L		97
27) ethyl tert-butyl ether	3.343	59	300721	53.05	ug/L		96
28) 2-butanone	3.568	72	33678	218.58	ug/L		94
29) 1,1-dichloroethane	3.071	63	181837	52.67	ug/L		98
30) chloroprene	3.113	53	155119	52.00	ug/L		97
31) acrylonitrile	2.778	53	21660	53.12	ug/L		96
32) vinyl acetate	3.097	86	21814	64.07	ug/L	#	65
33) ethyl acetate	3.583	45	12688	57.29	ug/L		95
34) 2,2-dichloropropane	3.515	77	137016	49.42	ug/L		98
35) cis-1,2-dichloroethene	3.552	96	105361	49.68	ug/L		98
36) propionitrile	3.683	54	109404	596.95	ug/L		98
37) bromochloromethane	3.761	130	57134	47.96	ug/L		91
38) tetrahydrofuran	3.756	42	25182	56.66	ug/L		92
39) chloroform	3.819	83	165820	44.94	ug/L		99
40) tert-butyl formate	3.824	59	46453	70.64	ug/L		83
41) isobutyl alcohol	4.237	41	135607	473.82	ug/L		90
43) methacrylonitrile	3.782	67	32452	55.83	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v3c7462\
Data File : 3c168622.d
Acq On : 19 Aug 2021 11:59 am
Operator : PrashanS
Sample : BS Inst : MS3C
Misc : MS52986,V3C7462,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Results File: M3C7415.RES
Quant Time: Aug 20 01:56:25 2021
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Mon Jun 28 17:56:55 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 1,1,1-trichloroethane	3.934	97	141166	46.01	ug/L		97
45) cyclohexane	3.918	84	156221	49.93	ug/L		97
46) 1,1-dichloropropene	4.080	110	48996	49.08	ug/L		96
47) tert-amyl alcohol	4.300	59	26787	285.62	ug/L	#	60
48) carbon tetrachloride	4.044	119	113104	41.91	ug/L		98
51) 2,2,4-trimethylpentane	4.237	57	468262	52.12	ug/L		97
52) tert-amyl methyl ether	4.331	87	84103	53.29	ug/L		97
53) n-butyl alcohol	4.870	56	108571	2567.64	ug/L		98
54) benzene	4.258	78	414827	51.11	ug/L		99
55) heptane	4.420	57	93922	49.18	ug/L		97
56) isopropyl acetate	4.331	87	84103	53.29	ug/L		98
57) 1,2-dichloroethane	4.352	62	110134	43.18	ug/L		98
58) trichloroethene	4.875	95	101490	47.11	ug/L		98
60) 2-nitropropane	5.717	41	25541	45.07	ug/L	#	89
61) 2-chloroethyl vinyl ether	5.733	63	283346	278.42	ug/L		99
62) methyl methacrylate	5.236	100	21009	50.94	ug/L		93
63) 1,2-dichloropropane	5.137	63	105415	53.94	ug/L		90
64) methylcyclohexane	4.975	83	191392	49.31	ug/L		96
65) dibromomethane	5.268	93	48716	48.72	ug/L		99
66) bromodichloromethane	5.419	83	119862	47.15	ug/L		99
67) epichlorohydrin	5.812	57	40127	298.62	ug/L		99
68) cis-1,3-dichloropropene	5.859	75	163934	53.51	ug/L		95
69) 4-methyl-2-pentanone	5.995	85	52014	221.86	ug/L		95
70) 3-methyl-1-butanol	6.084	55	59583	1007.73	ug/L		99
73) toluene	6.115	92	259924	51.19	ug/L		97
74) trans-1,3-dichloropropene	6.408	75	127388	49.91	ug/L		98
75) ethyl methacrylate	6.434	69	110825	54.44	ug/L		97
76) 1,1,2-trichloroethane	6.570	83	64533	51.41	ug/L		97
77) 2-hexanone	6.769	58	116801	232.11	ug/L		96
78) tetrachloroethene	6.596	166	107302	46.67	ug/L		99
79) 1,3-dichloropropane	6.722	76	135805	51.52	ug/L		99
80) butyl acetate	6.863	56	56605	57.46	ug/L		94
81) dibromochloromethane	6.889	129	80806	45.90	ug/L		97
82) 1,2-dibromoethane	6.988	107	71263	49.07	ug/L		99
83) n-butyl ether	7.443	57	495290	60.32	ug/L		97
84) chlorobenzene	7.396	112	262849	48.56	ug/L		98
85) 1,1,1,2-tetrachloroethane	7.480	131	90355	48.09	ug/L		99
86) ethylbenzene	7.464	91	482489	49.27	ug/L		100
87) m,p-xylene	7.569	106	369147	99.49	ug/L		96
88) o-xylene	7.904	91	374676	50.11	ug/L		100
89) styrene	7.930	104	307745	50.08	ug/L		99
90) bromoform	8.108	173	53105	45.99	ug/L		98
91) butyl acrylate	7.898	55	153375	48.94	ug/L		99
92) isopropylbenzene	8.202	105	472610	48.69	ug/L		99
93) cis-1,4-dichloro-2-butene	8.333	53	28561	49.35	ug/L		91
96) bromobenzene	8.479	156	112234	48.05	ug/L		98
97) 1,1,2,2-tetrachloroethane	8.526	83	89288	52.18	ug/L		99
98) trans-1,4-dichloro-2-b...	8.578	88	12216	51.56	ug/L	#	90
99) 1,2,3-trichloropropane	8.563	110	25678	50.37	ug/L		100
100) n-propylbenzene	8.542	91	567403	51.05	ug/L		99
101) 2-chlorotoluene	8.631	126	110131	49.45	ug/L		99
102) 4-chlorotoluene	8.725	126	113536	48.82	ug/L		96
103) 1,3,5-trimethylbenzene	8.688	105	387914	50.87	ug/L		99
104) tert-butylbenzene	8.939	119	344398	49.77	ug/L		98
105) 1,2,4-trimethylbenzene	8.992	105	390438	50.43	ug/L		98
106) sec-butylbenzene	9.117	105	519367	50.72	ug/L		100
107) 1,3-dichlorobenzene	9.243	146	216615	46.70	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v3c7462\
Data File : 3c168622.d
Acq On : 19 Aug 2021 11:59 am
Operator : PrashanS
Sample : BS Inst : MS3C
Misc : MS52986,V3C7462,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Results File: M3C7415.RES
Quant Time: Aug 20 01:56:25 2021
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Mon Jun 28 17:56:55 2021
Response via : Initial Calibration

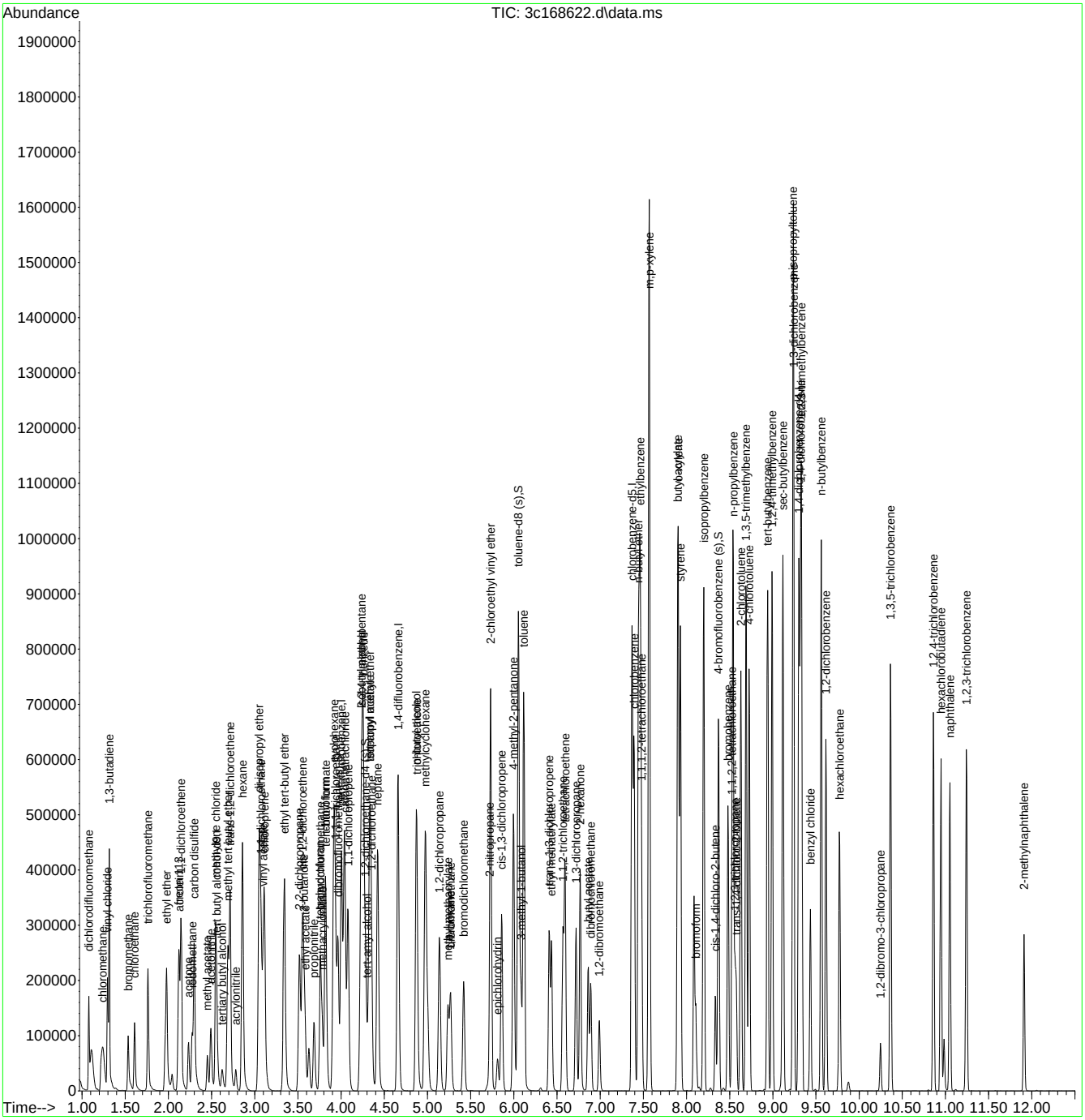
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) p-isopropyltoluene	9.232	119	438452	48.93	ug/L	97
109) 1,4-dichlorobenzene	9.321	146	217204	46.19	ug/L	99
110) 1,2,3-trimethylbenzene	9.332	105	396924	51.43	ug/L	100
111) 1,2-dichlorobenzene	9.614	146	197887	47.47	ug/L	99
112) n-butylbenzene	9.562	92	229467	49.72	ug/L	99
113) 1,2-dibromo-3-chloropr...	10.247	157	19188	49.04	ug/L	96
114) 1,3,5-trichlorobenzene	10.362	180	186111	49.07	ug/L	99
115) 1,2,4-trichlorobenzene	10.859	180	160417	47.38	ug/L	99
116) hexachlorobutadiene	10.948	225	99121	45.49	ug/L	98
117) naphthalene	11.052	128	316357	51.80	ug/L	100
118) 1,2,3-trichlorobenzene	11.241	180	147085	47.74	ug/L	99
119) hexachloroethane	9.776	201	66854	50.18	ug/L	99
120) benzyl chloride	9.436	91	174274	52.73	ug/L	99
121) 2-methylnaphthalene	11.910	142	99600	24.70	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v3c7462\
Data File : 3c168622.d
Acq On : 19 Aug 2021 11:59 am
Operator : PrashanS
Sample : BS Inst : MS3C
Misc : MS52986,V3C7462,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Results File: M3C7415.RES
Quant Time: Aug 20 01:56:25 2021
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Mon Jun 28 17:56:55 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180237.d
Acq On : 18 Aug 2021 3:39 pm
Operator : PrashanS
Sample : JD29908-2MS Inst : GCMS1C
Misc : MS53009,V1C7855,5.6,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 04:05:22 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.243	65	65806	500.00	ug/L	0.00
5) pentafluorobenzene	9.482	168	216808	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.402	114	345214	50.00	ug/L	0.00
73) chlorobenzene-d5	13.551	117	273239	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.863	152	131111	50.00	ug/L	0.00
125) pentafluorobenzene(a)	9.482	168	216808	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.539	113	107943	54.50	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 109.00%			
52) 1,2-dichloroethane-d4 (s)	9.963	65	106351	53.66	ug/L	0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 107.32%			
74) toluene-d8 (s)	12.039	98	371243	51.51	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 103.02%			
97) 4-bromofluorobenzene (s)	14.702	95	128266	50.23	ug/L	0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 100.46%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.364	59	44740	279.69	ug/L	99
3) ethanol	6.004	45	88838	5538.02	ug/L	99
4) 1,4-dioxane	11.129	88	19881	1344.64	ug/L	100
6) dichlorodifluoromethane	3.791	85	111280	38.95	ug/L	99
7) chlorodifluoromethane	3.823	51	108464	56.21	ug/L	98
8) chloromethane	4.199	50	126918	41.58	ug/L	99
9) vinyl chloride	4.424	62	114615	43.51	ug/L	99
10) 1,3-butadiene	4.497	54	80952	45.86	ug/L	97
11) bromomethane	5.094	94	66250	38.64	ug/L	97
12) chloroethane	5.271	64	61355	46.10	ug/L	97
13) trichlorofluoromethane	5.700	101	135947	46.77	ug/L	100
14) ethyl ether	6.145	74	40415	51.05	ug/L	96
15) acrolein	6.427	56	7803	28.51	ug/L	97
16) freon 113	6.506	151	62665	45.96	ug/L	97
17) 1,1-dichloroethene	6.563	96	71961	44.66	ug/L	88
18) acetone	6.631	43	89530	172.37	ug/L	96
19) acetonitrile	7.086	41	92829	452.31	ug/L	98
20) iodomethane	6.846	142	85991	43.47	ug/L	98
21) carbon disulfide	6.966	76	256723	45.94	ug/L	99
22) methylene chloride	7.296	84	88503	48.45	ug/L	95
23) methyl acetate	7.086	43	64967	53.68	ug/L	97
24) methyl tert butyl ether	7.594	73	204564	51.98	ug/L	98
25) trans-1,2-dichloroethene	7.662	96	84701	46.47	ug/L	97
26) di-isopropyl ether	8.185	45	294899	52.21	ug/L	95
27) 2-butanone	8.938	72	31047	187.16	ug/L	99
28) 1,1-dichloroethane	8.237	63	157624	52.49	ug/L	98
29) chloroprene	8.336	53	122773	50.02	ug/L	97
30) acrylonitrile	7.641	53	21075	40.82	ug/L	94
31) hexane	7.944	57	106116	36.47	ug/L	100
32) vinyl acetate	8.216	86	5144	20.66	ug/L #	33
33) ethyl tert-butyl ether	8.655	59	269208	52.95	ug/L	99
34) ethyl acetate	8.954	45	9467	39.72	ug/L #	44
35) 2,2-dichloropropane	8.959	77	118310	46.06	ug/L	98
36) cis-1,2-dichloroethene	8.974	96	91557	47.29	ug/L	98
37) methyl acrylate	9.032	85	10538	50.25	ug/L	95
38) propionitrile	9.053	54	98024	473.39	ug/L	99
39) bromochloromethane	9.283	128	40810	47.67	ug/L	92
40) tetrahydrofuran	9.320	42	22616	41.73	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180237.d
Acq On : 18 Aug 2021 3:39 pm
Operator : PrashanS
Sample : JD29908-2MS Inst : GCMS1C
Misc : MS53009,V1C7855,5.6,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 04:05:22 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) chloroform	9.341	85	103564	49.26	ug/L		98
42) t-butyl formate	9.356	59	25052	20.05	ug/L		94
44) methacrylonitrile	9.231	67	27945	47.25	ug/L		97
45) 1,1,1-trichloroethane	9.581	97	132860	50.72	ug/L		99
46) cyclohexane	9.639	84	105026	41.54	ug/L		94
47) 1,1-dichloropropene	9.759	75	115191	49.45	ug/L		99
48) iso-butyl alcohol	9.780	43	29018	396.76	ug/L		98
49) carbon tetrachloride	9.780	117	115370	50.09	ug/L		99
50) tert amyl alcohol	9.895	55	12675	210.05	ug/L		87
53) n-butyl alcohol	10.533	56	102641	2171.50	ug/L		98
54) 2,2,4-trimethylpentane	9.994	57	224377	28.42	ug/L		99
55) benzene	10.026	78	331453	46.58	ug/L		99
56) tert-amyl methyl ether	10.036	87	54191	48.75	ug/L		93
57) heptane	10.177	71	46176	27.19	ug/L		99
58) isopropyl acetate	9.947	87	13627	43.19	ug/L		99
59) 1,2-dichloroethane	10.052	62	98498	46.96	ug/L		98
60) trichloroethene	10.742	130	90230	46.80	ug/L		99
61) ethyl acrylate	10.742	55	82976	41.27	ug/L		96
63) 2-chloroethyl vinyl ether	11.537	63	228727	224.08	ug/L		99
64) methyl methacrylate	11.009	100	16220	46.08	ug/L	#	90
65) 1,2-dichloropropane	11.014	63	89803	49.36	ug/L		100
66) dibromomethane	11.176	93	48208	45.92	ug/L		99
67) methylcyclohexane	10.941	83	121442	37.53	ug/L		95
68) bromodichloromethane	11.302	83	115535	48.78	ug/L		99
69) epichlorohydrin	11.668	57	33541	200.61	ug/L		100
70) cis-1,3-dichloropropene	11.757	75	134246	46.20	ug/L		99
71) 4-methyl-2-pentanone	11.846	58	96686	162.76	ug/L		97
72) 3-methyl-1-butanol	11.867	55	59079	762.68	ug/L		99
75) toluene	12.113	92	187591	44.33	ug/L		99
76) trans-1,3-dichloropropene	12.317	75	108914	48.40	ug/L		99
77) ethyl methacrylate	12.296	69	84082	45.04	ug/L		97
78) 1,1,2-trichloroethane	12.536	83	55882	47.07	ug/L		98
79) tetrachloroethene	12.693	164	63293	43.18	ug/L		98
80) 1,3-dichloropropane	12.714	76	101711	46.83	ug/L		99
81) 2-hexanone	12.693	58	94029	173.16	ug/L		98
82) butyl acetate	12.766	56	36001	36.96	ug/L		99
83) dibromochloromethane	12.981	129	79797	47.43	ug/L		98
84) 1,2-dibromoethane	13.127	107	64596	46.30	ug/L		97
85) n-butyl ether	13.472	57	319875	43.04	ug/L		100
86) chlorobenzene	13.577	112	190072	43.60	ug/L		99
87) 1,1,1,2-tetrachloroethane	13.640	131	74202	45.94	ug/L		96
88) ethylbenzene	13.629	91	332556	42.33	ug/L		99
89) m,p-xylene	13.734	106	245995	85.47	ug/L		99
90) o-xylene	14.152	106	121837	43.94	ug/L		98
91) styrene	14.163	104	204043	42.90	ug/L		99
92) bromoform	14.440	173	51915	44.04	ug/L		99
93) butyl acrylate	13.975	55	118257	40.12	ug/L		100
94) isopropylbenzene	14.487	105	313369	41.56	ug/L		100
95) cis-1,4-dichloro-2-butene	14.576	88	25579	44.52	ug/L		92
98) bromobenzene	14.895	156	81032	42.30	ug/L		94
99) 1,1,2,2-tetrachloroethane	14.811	83	69947	39.13	ug/L		99
100) trans-1,4-dichloro-2-b...	14.848	53	19159	41.40	ug/L		94
101) 1,2,3-trichloropropane	14.885	110	17300	42.53	ug/L		96
102) n-propylbenzene	14.895	91	361927	38.64	ug/L		99
103) 2-chlorotoluene	15.047	126	72748	41.25	ug/L		96
104) 4-chlorotoluene	15.146	91	215768	38.66	ug/L		100
105) 1,3,5-trimethylbenzene	15.042	105	242613	40.57	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180237.d
Acq On : 18 Aug 2021 3:39 pm
Operator : PrashanS
Sample : JD29908-2MS Inst : GCMS1C
Misc : MS53009,V1C7855,5.6,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 04:05:22 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

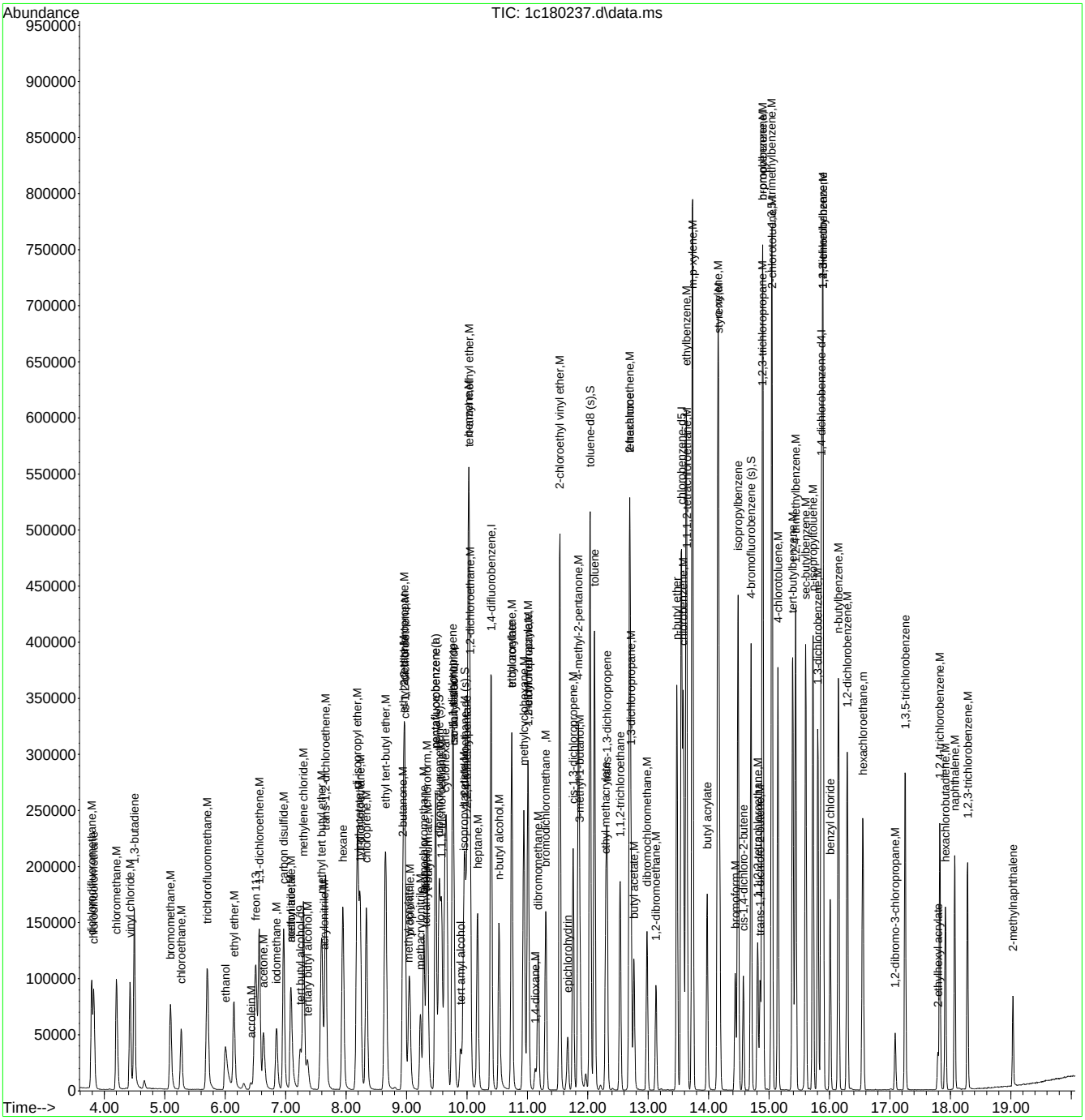
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) tert-butylbenzene	15.392	134	45535	40.51	ug/L	98
107) 1,2,4-trimethylbenzene	15.439	105	248119	41.19	ug/L	98
108) sec-butylbenzene	15.606	105	301285	36.82	ug/L	99
109) 1,3-dichlorobenzene	15.805	146	138797	39.38	ug/L	96
110) p-isopropyltoluene	15.727	119	247927	36.74	ug/L	98
111) 1,2,3-trimethylbenzene	15.889	105	246191	39.93	ug/L	98
112) 1,4-dichlorobenzene	15.889	146	133882	37.55	ug/L	99
113) benzyl chloride	16.009	91	126197	37.31	ug/L	98
114) 1,2-dichlorobenzene	16.292	146	133270	39.30	ug/L	99
115) n-butylbenzene	16.145	92	123529	33.38	ug/L	99
116) 1,2-dibromo-3-chloropr...	17.087	75	12870	40.29	ug/L	98
117) 1,3,5-trichlorobenzene	17.254	180	91512	34.11	ug/L	99
118) 2-ethylhexyl acrylate	17.793	70	8470	5.28	ug/L	98
119) 1,2,4-trichlorobenzene	17.824	180	68552	30.96	ug/L	99
120) hexachlorobutadiene	17.918	225	35331	26.72	ug/L	100
121) naphthalene	18.070	128	149836	32.66	ug/L	100
122) 1,2,3-trichlorobenzene	18.284	180	59952	30.48	ug/L	99
123) hexachloroethane	16.553	201	49909	42.30	ug/L	100
124) 2-methylnaphthalene	19.032	142	35149	12.75	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180237.d
Acq On : 18 Aug 2021 3:39 pm
Operator : PrashanS
Sample : JD29908-2MS Inst : GCMS1C
Misc : MS53009,V1C7855,5.6,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 04:05:22 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v3c7462\
Data File : 3c168630.d
Acq On : 19 Aug 2021 3:28 pm
Operator : PrashanS
Sample : JD30038-1MS Inst : MS3C
Misc : MS53053,V3C7462,5.5,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Results File: M3C7415.RES
Quant Time: Aug 20 02:05:43 2021
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Mon Jun 28 17:56:55 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	2.563	65	63472	500.00	ug/L		0.00
5) pentafluorobenzene	4.007	168	254593	50.00	ug/L		0.00
49) 1,4-difluorobenzene	4.661	114	396045	50.00	ug/L		0.00
71) chlorobenzene-d5	7.370	117	346162	50.00	ug/L		0.00
94) 1,4-dichlorobenzene-d4	9.300	152	169254	50.00	ug/L		0.00
System Monitoring Compounds							
42) dibromofluoromethane (s)	3.965	113	108115	49.34	ug/L		0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 98.68%				
50) 1,2-dichloroethane-d4 (s)	4.279	65	115206	49.06	ug/L		0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 98.12%				
72) toluene-d8 (s)	6.052	98	467744	51.18	ug/L		0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 102.36%				
95) 4-bromofluorobenzene (s)	8.369	95	167479	54.17	ug/L		0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 108.34%				
Target Compounds							Qvalue
3) tertiary butyl alcohol	2.626	59	40979	320.10	ug/L		95
4) 1,4-dioxane	5.262	88	28143	1576.43	ug/L		88
6) dichlorodifluoromethane	1.078	85	105881	43.07	ug/L		98
7) chloromethane	1.240	50	152695	58.61	ug/L		98
8) 1,3-butadiene	1.313	54	100836	56.46	ug/L		98
9) vinyl chloride	1.293	62	131863	57.86	ug/L		100
10) bromomethane	1.533	94	53127	39.32	ug/L		99
11) chloroethane	1.606	64	80139	56.63	ug/L		100
12) trichlorofluoromethane	1.763	101	135204	47.15	ug/L		99
13) ethyl ether	1.978	74	56283	60.83	ug/L	#	81
14) acrolein	2.124	56	6235	29.86	ug/L		89
15) freon 113	2.119	151	68823	46.78	ug/L		98
16) 1,1-dichloroethene	2.150	96	85175	55.38	ug/L		95
17) acetone	2.234	43	82181	221.56	ug/L		94
18) acetonitrile	2.490	41	110333	721.33	ug/L		98
19) iodomethane	2.276	142	99612	43.98	ug/L		95
20) carbon disulfide	2.297	76	285972	50.31	ug/L		98
21) methylene chloride	2.548	84	100719	55.55	ug/L		96
22) methyl acetate	2.454	43	79181	74.67	ug/L		98
23) methyl tert butyl ether	2.689	73	246903	57.86	ug/L		98
24) trans-1,2-dichloroethene	2.715	96	101488	55.08	ug/L		94
25) hexane	2.856	57	151033	43.54	ug/L		97
26) di-isopropyl ether	3.055	45	376371	64.48	ug/L		97
27) ethyl tert-butyl ether	3.343	59	330306	62.20	ug/L		98
28) 2-butanone	3.573	72	37374	258.91	ug/L	#	86
29) 1,1-dichloroethane	3.071	63	191476	59.19	ug/L		99
30) chloroprene	3.113	53	159023	56.90	ug/L		98
31) acrylonitrile	2.783	53	23614	61.81	ug/L		92
32) vinyl acetate	3.097	86	4731	14.83	ug/L	#	76
33) ethyl acetate	3.583	45	12857	61.97	ug/L		95
34) 2,2-dichloropropane	3.521	77	123265	47.45	ug/L		96
35) cis-1,2-dichloroethene	3.552	96	111722	56.23	ug/L		98
36) propionitrile	3.688	54	120020	699.01	ug/L		99
37) bromochloromethane	3.761	130	60092	53.84	ug/L		89
38) tetrahydrofuran	3.761	42	29904	71.81	ug/L		95
39) chloroform	3.819	83	178871	51.74	ug/L		99
40) tert-butyl formate	3.824	59	16330	26.51	ug/L	#	71
41) isobutyl alcohol	4.237	41	104796	390.84	ug/L		85
43) methacrylonitrile	3.782	67	35373	64.95	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v3c7462\
Data File : 3c168630.d
Acq On : 19 Aug 2021 3:28 pm
Operator : PrashanS
Sample : JD30038-1MS Inst : MS3C
Misc : MS53053,V3C7462,5.5,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Results File: M3C7415.RES
Quant Time: Aug 20 02:05:43 2021
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Mon Jun 28 17:56:55 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 1,1,1-trichloroethane	3.934	97	145223	50.52	ug/L		97
45) cyclohexane	3.918	84	151204	51.58	ug/L		96
46) 1,1-dichloropropene	4.080	110	50406	53.89	ug/L		98
47) tert-amyl alcohol	4.300	59	31185	354.92	ug/L	#	78
48) carbon tetrachloride	4.044	119	115815	45.80	ug/L		98
51) 2,2,4-trimethylpentane	4.237	57	328395	38.59	ug/L		98
52) tert-amyl methyl ether	4.331	87	92045	61.57	ug/L		89
53) n-butyl alcohol	4.870	56	127308	3152.96	ug/L		99
54) benzene	4.258	78	436712	56.81	ug/L		99
55) heptane	4.420	57	66788	36.92	ug/L		95
56) isopropyl acetate	4.331	87	92045	61.57	ug/L		94
57) 1,2-dichloroethane	4.352	62	119155	49.32	ug/L		99
58) trichloroethene	4.875	95	110516	54.17	ug/L		97
60) 2-nitropropane	5.723	41	27457	51.15	ug/L	#	1
61) 2-chloroethyl vinyl ether	5.733	63	310586	322.21	ug/L		99
62) methyl methacrylate	5.236	100	25640	65.64	ug/L		93
63) 1,2-dichloropropane	5.137	63	112690	60.88	ug/L		91
64) methylcyclohexane	4.975	83	166212	45.21	ug/L		96
65) dibromomethane	5.267	93	53703	56.71	ug/L		99
66) bromodichloromethane	5.419	83	125592	52.16	ug/L		99
67) epichlorohydrin	5.817	57	42941	337.39	ug/L		99
68) cis-1,3-dichloropropene	5.859	75	168955	58.23	ug/L		95
69) 4-methyl-2-pentanone	5.994	85	59385	267.43	ug/L		97
70) 3-methyl-1-butanol	6.083	55	70826	1252.41	ug/L		98
73) toluene	6.115	92	268452	54.90	ug/L		99
74) trans-1,3-dichloropropene	6.413	75	133211	54.21	ug/L		97
75) ethyl methacrylate	6.434	69	114286	58.30	ug/L		99
76) 1,1,2-trichloroethane	6.570	83	69912	57.84	ug/L		97
77) 2-hexanone	6.769	58	131972	272.37	ug/L		98
78) tetrachloroethene	6.596	166	107813	48.70	ug/L		98
79) 1,3-dichloropropane	6.721	76	146055	57.54	ug/L		99
80) butyl acetate	6.863	56	55665	58.68	ug/L		92
81) dibromochloromethane	6.894	129	86740	51.17	ug/L		99
82) 1,2-dibromoethane	6.993	107	77184	55.20	ug/L		100
83) n-butyl ether	7.443	57	509735	64.47	ug/L		97
84) chlorobenzene	7.396	112	270345	51.87	ug/L		96
85) 1,1,1,2-tetrachloroethane	7.480	131	94321	52.13	ug/L		98
86) ethylbenzene	7.464	91	485321	51.47	ug/L		100
87) m,p-xylene	7.569	106	372954	104.39	ug/L		98
88) o-xylene	7.904	91	380129	52.80	ug/L		100
89) styrene	7.930	104	315236	53.28	ug/L		99
90) bromoform	8.107	173	57429	51.65	ug/L		97
91) butyl acrylate	7.898	55	152995	50.63	ug/L		99
92) isopropylbenzene	8.202	105	457943	49.00	ug/L		99
93) cis-1,4-dichloro-2-butene	8.338	53	29802	53.48	ug/L		91
96) bromobenzene	8.484	156	113161	51.23	ug/L		94
97) 1,1,2,2-tetrachloroethane	8.526	83	92104	56.92	ug/L		98
98) trans-1,4-dichloro-2-b...	8.578	88	12768	56.98	ug/L		95
99) 1,2,3-trichloropropane	8.563	110	28295	58.69	ug/L		100
100) n-propylbenzene	8.542	91	537755	51.17	ug/L		100
101) 2-chlorotoluene	8.631	126	107610	51.09	ug/L		97
102) 4-chlorotoluene	8.730	126	110682	50.33	ug/L		93
103) 1,3,5-trimethylbenzene	8.693	105	368054	51.04	ug/L		98
104) tert-butylbenzene	8.939	119	319653	48.84	ug/L		98
105) 1,2,4-trimethylbenzene	8.991	105	375894	51.34	ug/L		98
106) sec-butylbenzene	9.117	105	460861	47.60	ug/L		99
107) 1,3-dichlorobenzene	9.242	146	205401	46.82	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v3c7462\
Data File : 3c168630.d
Acq On : 19 Aug 2021 3:28 pm
Operator : PrashanS
Sample : JD30038-1MS Inst : MS3C
Misc : MS53053,V3C7462,5.5,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Results File: M3C7415.RES
Quant Time: Aug 20 02:05:43 2021
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Mon Jun 28 17:56:55 2021
Response via : Initial Calibration

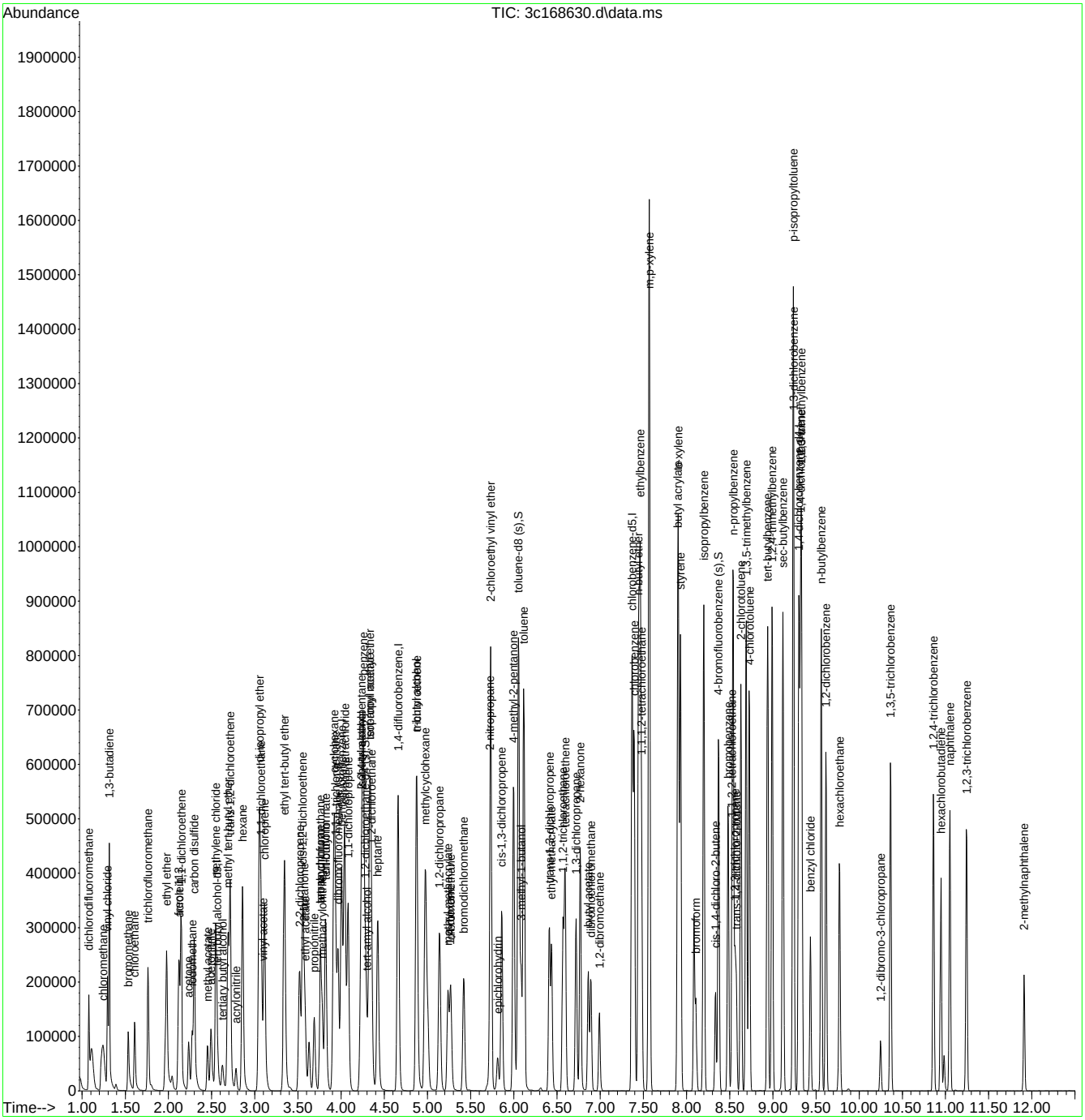
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) p-isopropyltoluene	9.237	119	390922	46.14	ug/L	99
109) 1,4-dichlorobenzene	9.321	146	205512	46.22	ug/L	98
110) 1,2,3-trimethylbenzene	9.331	105	387875	53.15	ug/L	99
111) 1,2-dichlorobenzene	9.614	146	191922	48.68	ug/L	99
112) n-butylbenzene	9.562	92	192423	44.09	ug/L	99
113) 1,2-dibromo-3-chloropr...	10.252	157	20383	55.09	ug/L	93
114) 1,3,5-trichlorobenzene	10.362	180	150907	42.07	ug/L	99
115) 1,2,4-trichlorobenzene	10.859	180	130584	40.79	ug/L	96
116) hexachlorobutadiene	10.948	225	65748	31.91	ug/L	97
117) naphthalene	11.052	128	293854	50.88	ug/L	100
118) 1,2,3-trichlorobenzene	11.246	180	118688	40.73	ug/L	97
119) hexachloroethane	9.776	201	58618	46.52	ug/L	97
120) benzyl chloride	9.436	91	148206	47.66	ug/L	99
121) 2-methylnaphthalene	11.910	142	74536	19.54	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v3c7462\
Data File : 3c168630.d
Acq On : 19 Aug 2021 3:28 pm
Operator : PrashanS
Sample : JD30038-1MS Inst : MS3C
Misc : MS53053,V3C7462,5.5,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Results File: M3C7415.RES
Quant Time: Aug 20 02:05:43 2021
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Mon Jun 28 17:56:55 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\2021\august 2021\08202021\v1c7856\
Data File : 1c180267.d
Acq On : 19 Aug 2021 3:40 pm
Operator : PrashanS
Sample : JD30019-1MS Inst : GCMS1C
Misc : MS53048,V1C7856,5.5,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 20 02:10:48 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	7.243	65	74741	500.00	ug/L		0.00
5) pentafluorobenzene	9.482	168	218408	50.00	ug/L		0.00
51) 1,4-difluorobenzene	10.402	114	341570	50.00	ug/L		0.00
73) chlorobenzene-d5	13.561	117	274025	50.00	ug/L		0.01
96) 1,4-dichlorobenzene-d4	15.873	152	131830	50.00	ug/L		0.00
125) pentafluorobenzene(a)	9.482	168	218408	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.539	113	105992	53.12	ug/L		0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 106.24%				
52) 1,2-dichloroethane-d4 (s)	9.963	65	105928	54.02	ug/L		0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 108.04%				
74) toluene-d8 (s)	12.039	98	368307	50.96	ug/L		0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 101.92%				
97) 4-bromofluorobenzene (s)	14.707	95	127398	49.62	ug/L		0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 99.24%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	7.364	59	40921	225.23	ug/L		97
3) ethanol	6.009	45	87182	4785.08	ug/L		99
4) 1,4-dioxane	11.129	88	20879	1243.33	ug/L		89
6) dichlorodifluoromethane	3.791	85	108607	37.74	ug/L		98
7) chlorodifluoromethane	3.828	51	106485	54.78	ug/L		98
8) chloromethane	4.199	50	126607	41.18	ug/L		98
9) vinyl chloride	4.424	62	112943	42.56	ug/L		99
10) 1,3-butadiene	4.497	54	79804	44.88	ug/L		95
11) bromomethane	5.094	94	67197	38.91	ug/L		96
12) chloroethane	5.271	64	60201	44.91	ug/L		99
13) trichlorofluoromethane	5.700	101	133129	45.47	ug/L		100
14) ethyl ether	6.145	74	38569	48.36	ug/L		99
15) acrolein	6.422	56	9031	32.76	ug/L		84
16) freon 113	6.501	151	61962	45.11	ug/L		98
17) 1,1-dichloroethene	6.563	96	70045	43.15	ug/L		95
18) acetone	6.637	43	79840	152.59	ug/L		99
19) acetonitrile	7.086	41	88697	429.01	ug/L		99
20) iodomethane	6.846	142	81939	41.32	ug/L		97
21) carbon disulfide	6.966	76	248118	44.07	ug/L		99
22) methylene chloride	7.296	84	84205	45.76	ug/L		100
23) methyl acetate	7.092	43	52812	43.32	ug/L		99
24) methyl tert butyl ether	7.594	73	197997	49.94	ug/L		99
25) trans-1,2-dichloroethene	7.662	96	80846	44.03	ug/L		96
26) di-isopropyl ether	8.190	45	280140	49.24	ug/L		99
27) 2-butanone	8.938	72	29596	177.11	ug/L		95
28) 1,1-dichloroethane	8.232	63	149521	49.42	ug/L		99
29) chloroprene	8.336	53	118791	48.04	ug/L		99
30) acrylonitrile	7.641	53	19166	36.85	ug/L		95
31) hexane	7.949	57	114515	39.06	ug/L		98
32) vinyl acetate	8.221	86	8929	35.60	ug/L	#	74
33) ethyl tert-butyl ether	8.650	59	253433	49.48	ug/L		99
34) ethyl acetate	8.954	45	10105	42.08	ug/L	#	38
35) 2,2-dichloropropane	8.959	77	113871	44.00	ug/L		98
36) cis-1,2-dichloroethene	8.974	96	88353	45.30	ug/L		98
37) methyl acrylate	9.032	85	9991	47.29	ug/L		97
38) propionitrile	9.053	54	96189	461.12	ug/L		99
39) bromochloromethane	9.288	128	40093	46.49	ug/L		96
40) tetrahydrofuran	9.320	42	23013	42.15	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\2021\august 2021\08202021\v1c7856\
Data File : 1c180267.d
Acq On : 19 Aug 2021 3:40 pm
Operator : PrashanS
Sample : JD30019-1MS Inst : GCMS1C
Misc : MS53048,V1C7856,5.5,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 20 02:10:48 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) chloroform	9.341	85	98891	46.70	ug/L	98
42) t-butyl formate	9.356	59	49163	39.06	ug/L	97
44) methacrylonitrile	9.231	67	27493	46.14	ug/L	98
45) 1,1,1-trichloroethane	9.576	97	129515	49.08	ug/L	99
46) cyclohexane	9.639	84	107953	42.39	ug/L	95
47) 1,1-dichloropropene	9.759	75	111643	47.57	ug/L	99
48) iso-butyl alcohol	9.780	43	29280	397.41	ug/L	98
49) carbon tetrachloride	9.780	117	112719	48.58	ug/L	98
50) tert amyl alcohol	9.895	55	12915	212.46	ug/L	89
53) n-butyl alcohol	10.533	56	102266	2186.65	ug/L	99
54) 2,2,4-trimethylpentane	10.000	57	268273	34.34	ug/L	99
55) benzene	10.026	78	318971	45.30	ug/L	99
56) tert-amyl methyl ether	10.041	87	51501	46.83	ug/L	98
57) heptane	10.177	71	57145	34.00	ug/L	96
58) isopropyl acetate	9.942	87	14456	46.30	ug/L	97
59) 1,2-dichloroethane	10.052	62	95592	46.06	ug/L	98
60) trichloroethene	10.742	130	90321	47.34	ug/L	99
61) ethyl acrylate	10.742	55	86733	43.60	ug/L	99
63) 2-chloroethyl vinyl ether	11.537	63	225993	223.77	ug/L	100
64) methyl methacrylate	11.009	100	16198	46.51	ug/L	95
65) 1,2-dichloropropane	11.014	63	85458	47.47	ug/L	98
66) dibromomethane	11.176	93	47738	45.96	ug/L	98
67) methylcyclohexane	10.941	83	129389	40.41	ug/L	97
68) bromodichloromethane	11.307	83	112594	48.04	ug/L	100
69) epichlorohydrin	11.673	57	33390	201.84	ug/L	95
70) cis-1,3-dichloropropene	11.757	75	132750	46.17	ug/L	98
71) 4-methyl-2-pentanone	11.846	58	98006	166.74	ug/L	100
72) 3-methyl-1-butanol	11.867	55	59695	778.85	ug/L	99
75) toluene	12.113	92	184105	43.39	ug/L	97
76) trans-1,3-dichloropropene	12.317	75	109878	48.68	ug/L	98
77) ethyl methacrylate	12.296	69	84285	45.02	ug/L	97
78) 1,1,2-trichloroethane	12.536	83	54481	45.76	ug/L	98
79) tetrachloroethene	12.693	164	63538	43.23	ug/L	98
80) 1,3-dichloropropane	12.714	76	100187	46.00	ug/L	99
81) 2-hexanone	12.693	58	93248	171.23	ug/L	96
82) butyl acetate	12.766	56	42642	43.65	ug/L	99
83) dibromochloromethane	12.986	129	81358	48.22	ug/L	99
84) 1,2-dibromoethane	13.138	107	66170	47.29	ug/L	98
85) n-butyl ether	13.488	57	314100	42.14	ug/L	99
86) chlorobenzene	13.593	112	195138	44.63	ug/L	99
87) 1,1,1,2-tetrachloroethane	13.650	131	73869	45.60	ug/L	98
88) ethylbenzene	13.640	91	334278	42.43	ug/L	100
89) m,p-xylene	13.744	106	246585	85.43	ug/L	98
90) o-xylene	14.163	106	122953	44.21	ug/L	99
91) styrene	14.173	104	209778	43.98	ug/L	97
92) bromoform	14.451	173	54361	45.98	ug/L	98
93) butyl acrylate	13.985	55	124559	42.14	ug/L	99
94) isopropylbenzene	14.498	105	325088	42.99	ug/L	100
95) cis-1,4-dichloro-2-butene	14.587	88	26571	46.12	ug/L	91
98) bromobenzene	14.906	156	86480	44.90	ug/L	91
99) 1,1,2,2-tetrachloroethane	14.822	83	71074	39.55	ug/L	98
100) trans-1,4-dichloro-2-b...	14.858	53	19176	41.22	ug/L	96
101) 1,2,3-trichloropropane	14.895	110	17981	43.96	ug/L	96
102) n-propylbenzene	14.906	91	388648	41.27	ug/L	99
103) 2-chlorotoluene	15.057	126	77496	43.71	ug/L	92
104) 4-chlorotoluene	15.157	91	230642	41.10	ug/L	98
105) 1,3,5-trimethylbenzene	15.052	105	258199	42.94	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\2021\august 2021\08202021\v1c7856\
Data File : 1c180267.d
Acq On : 19 Aug 2021 3:40 pm
Operator : PrashanS
Sample : JD30019-1MS Inst : GCMS1C
Misc : MS53048,V1C7856,5.5,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 20 02:10:48 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

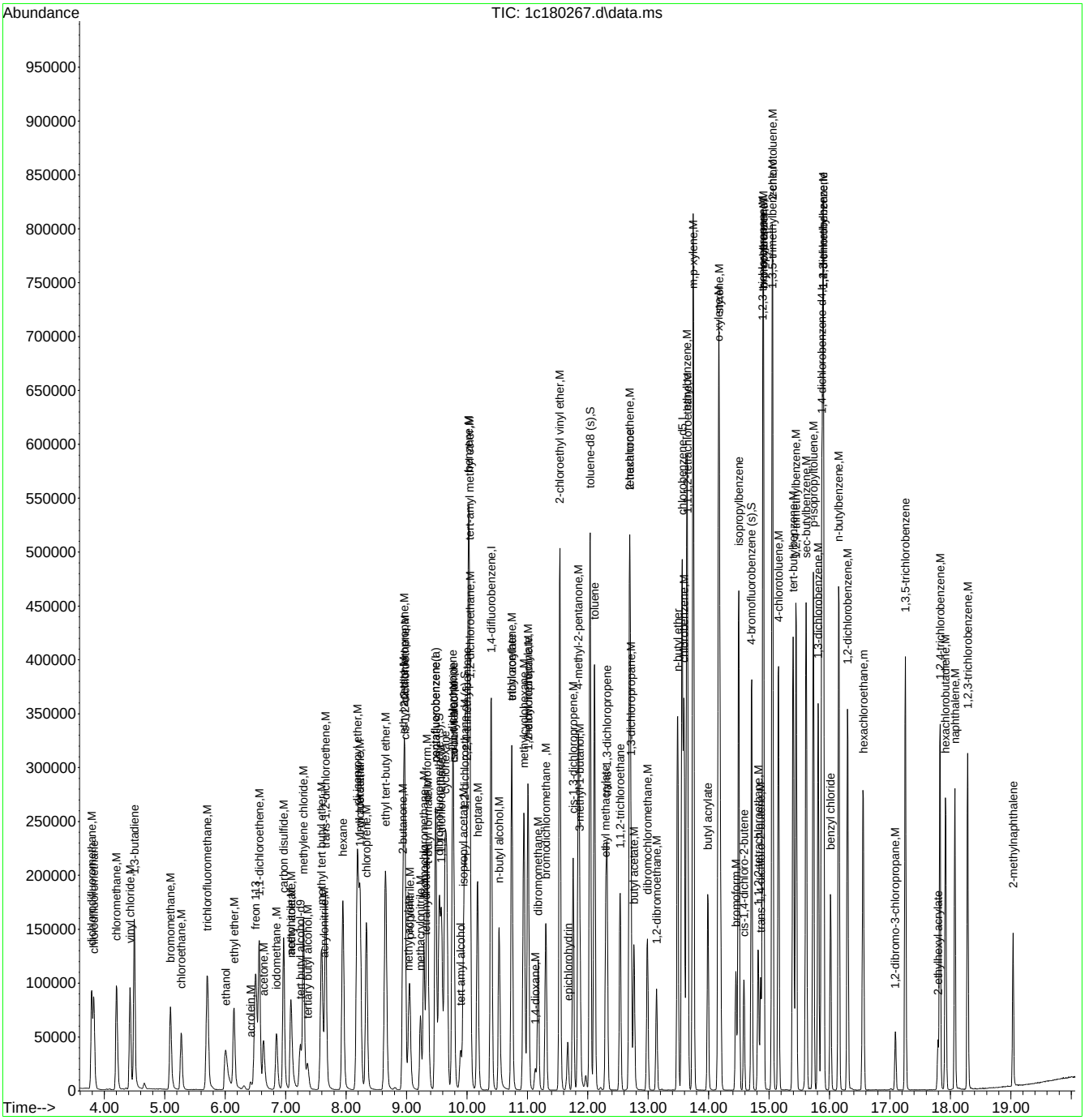
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) tert-butylbenzene	15.397	134	47908	42.38	ug/L	90
107) 1,2,4-trimethylbenzene	15.444	105	263722	43.54	ug/L	99
108) sec-butylbenzene	15.612	105	343021	41.69	ug/L	99
109) 1,3-dichlorobenzene	15.810	146	157173	44.36	ug/L	97
110) p-isopropyltoluene	15.732	119	289611	42.69	ug/L	99
111) 1,2,3-trimethylbenzene	15.894	105	265811	42.88	ug/L	97
112) 1,4-dichlorobenzene	15.894	146	151854	42.36	ug/L	99
113) benzyl chloride	16.014	91	138108	40.61	ug/L	97
114) 1,2-dichlorobenzene	16.297	146	151368	44.39	ug/L	100
115) n-butylbenzene	16.150	92	154859	41.62	ug/L	97
116) 1,2-dibromo-3-chloropr...	17.087	75	14212	44.24	ug/L	93
117) 1,3,5-trichlorobenzene	17.254	180	124884	46.30	ug/L	99
118) 2-ethylhexyl acrylate	17.793	70	11885	7.37	ug/L	92
119) 1,2,4-trichlorobenzene	17.829	180	101382	45.54	ug/L	97
120) hexachlorobutadiene	17.918	225	58517	44.02	ug/L	97
121) naphthalene	18.075	128	197406	42.80	ug/L	100
122) 1,2,3-trichlorobenzene	18.284	180	92266	46.65	ug/L	98
123) hexachloroethane	16.558	201	57634	48.58	ug/L	98
124) 2-methylnaphthalene	19.037	142	61199	22.08	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\2021\august 2021\08202021\v1c7856\
Data File : 1c180267.d
Acq On : 19 Aug 2021 3:40 pm
Operator : PrashanS
Sample : JD30019-1MS Inst : GCMS1C
Misc : MS53048,V1C7856,5.5,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 20 02:10:48 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kenrickb\voa\08-20-2021\v4d4985\
Data File : 4d111924.d
Acq On : 19 Aug 2021 4:17 pm
Operator : jons2
Sample : jd29818-21ms Inst : MS4D
Misc : MS52961,V4D4985,5,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Results File: M4D4892.RES
Quant Time: Aug 20 03:27:17 2021
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:43:19 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.626	65	301333	500.00	ug/L	0.00
5) pentafluorobenzene	11.111	168	369792	50.00	ug/L	0.00
52) 1,4-difluorobenzene	12.003	114	502586	50.00	ug/L	0.00
74) chlorobenzene-d5	14.897	117	417140	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	16.999	152	195479	50.00	ug/L	0.00
126) pentafluorobenzene(a)	11.111	168	369792	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	11.111	113	176027	50.40	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.80%			
53) 1,2-dichloroethane-d4 (s)	11.536	65	210445	57.08	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 114.16%			
75) toluene-d8 (s)	13.539	98	545039	47.72	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.44%			
98) 4-bromofluorobenzene (s)	15.935	95	197564	46.27	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 92.54%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.757	59	174951	225.04	ug/L	100
3) ethanol	7.163	45	326167	4413.51	ug/L	98
4) 1,4-dioxane	12.658	88	68198	1048.97	ug/L	96
6) chlorodifluoromethane	4.657	51	138187	41.57	ug/L	97
7) dichlorodifluoromethane	4.605	85	122909	26.02	ug/L	96
8) chloromethane	5.118	50	136259	36.32	ug/L	100
9) vinyl chloride	5.354	62	162589	44.11	ug/L	98
10) 1,3-butadiene	5.454	54	124127	40.39	ug/L	98
11) bromomethane	6.136	94	46733	21.55	ug/L	86
12) chloroethane	6.377	64	80463	41.89	ug/L	99
13) trichlorofluoromethane	6.938	101	245946	47.22	ug/L	98
15) ethyl ether	7.473	74	68684	43.66	ug/L	94
16) acrolein	7.682	56	30395	55.32	ug/L	95
17) freon 113	7.923	151	110930	46.67	ug/L	98
18) 1,1-dichloroethene	7.923	96	112934	42.98	ug/L	88
19) acetone	7.923	43	252819	180.89	ug/L	96
20) acetonitrile	8.359	41	254425	451.81	ug/L	98
21) iodomethane	8.212	142	84389	32.28	ug/L	93
22) carbon disulfide	8.374	76	337918	41.58	ug/L	97
23) methylene chloride	8.689	84	133322	44.84	ug/L	94
24) methyl acetate	8.495	43	151696	46.79	ug/L	96
25) methyl tert butyl ether	9.129	73	421036	46.93	ug/L	98
26) trans-1,2-dichloroethene	9.156	96	130563	44.28	ug/L	98
27) di-isopropyl ether	9.816	45	433776	49.72	ug/L	96
28) 2-butanone	10.487	72	99697	188.58	ug/L #	86
29) 1,1-dichloroethane	9.753	63	247376	51.87	ug/L	98
30) chloroprene	9.905	53	217968	57.42	ug/L	95
31) acrylonitrile	9.019	53	57708	47.45	ug/L	95
32) hexane	9.575	56	89051	50.48	ug/L	95
33) vinyl acetate	9.759	86	31760	65.46	ug/L #	92
34) ethyl tert-butyl ether	10.314	59	463083	51.60	ug/L	98
35) ethyl acetate	10.550	70	22843	44.91	ug/L #	43
36) 2,2-dichloropropane	10.571	77	237652	54.35	ug/L	94
37) cis-1,2-dichloroethene	10.540	96	167095	52.54	ug/L	97
38) methyl acrylate	10.629	55	158607	42.78	ug/L	100
39) propionitrile	10.540	54	296365	470.10	ug/L	98
40) bromochloromethane	10.854	128	70779	44.65	ug/L	96
41) tetrahydrofuran	10.923	72	28848	43.59	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kenrickb\voa\08-20-2021\v4d4985\
Data File : 4d111924.d
Acq On : 19 Aug 2021 4:17 pm
Operator : jons2
Sample : jd29818-21ms Inst : MS4D
Misc : MS52961,V4D4985,5,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Results File: M4D4892.RES
Quant Time: Aug 20 03:27:17 2021
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:43:19 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) chloroform	10.912	85	173994	47.27	ug/L		96
43) t-butyl formate	10.996	59	125766	51.76	ug/L		94
45) methacrylonitrile	10.770	67	71431	46.02	ug/L		98
46) 1,1,1-trichloroethane	11.221	97	250701	53.56	ug/L		99
47) cyclohexane	11.337	84	161644	40.27	ug/L	#	81
48) 1,1-dichloropropene	11.410	75	184412	49.53	ug/L		99
50) carbon tetrachloride	11.447	117	227830	55.20	ug/L		100
51) tert amyl alcohol	11.489	55	57510	242.55	ug/L		99
54) n-butyl alcohol	12.071	56	370420	2297.21	ug/L		96
55) 2,2,4-trimethylpentane	11.735	57	290044	44.99	ug/L		94
56) benzene	11.657	78	495458	48.15	ug/L		98
57) tert-amyl methyl ether	11.719	87	105114	49.07	ug/L		94
58) heptane	11.892	71	67479	48.85	ug/L		97
59) isopropyl acetate	11.583	87	38006	46.20	ug/L		94
60) 1,2-dichloroethane	11.625	62	220506	51.34	ug/L		99
61) trichloroethene	12.333	130	137495	45.23	ug/L		96
62) ethyl acrylate	12.322	55	216198	43.19	ug/L		97
63) 2-nitropropane	12.983	43	70087	47.63	ug/L		97
65) methyl methacrylate	12.579	100	44167	44.03	ug/L	#	89
66) 1,2-dichloropropane	12.558	63	124980	46.93	ug/L		97
67) dibromomethane	12.684	93	94852	45.99	ug/L		100
68) methylcyclohexane	12.590	83	179030	45.11	ug/L		97
69) bromodichloromethane	12.805	83	201926	49.16	ug/L		97
70) epichlorohydrin	13.125	57	98812	200.46	ug/L		96
71) cis-1,3-dichloropropene	13.240	75	221329	49.09	ug/L		92
72) 4-methyl-2-pentanone	13.334	58	263039	168.94	ug/L		95
73) 3-methyl-1-butanol	13.319	70	135702	912.23	ug/L		97
76) toluene	13.602	92	311462	47.88	ug/L		96
77) trans-1,3-dichloropropene	13.738	75	202249	46.21	ug/L		96
78) ethyl methacrylate	13.764	69	179209	41.50	ug/L		98
79) 1,1,2-trichloroethane	13.927	83	101580	43.95	ug/L		96
80) tetrachloroethene	14.147	164	116187	49.16	ug/L		98
81) 1,3-dichloropropane	14.100	76	181569	42.86	ug/L		91
82) 2-hexanone	14.100	58	276413	163.52	ug/L		95
83) butyl acetate	14.184	56	100981	40.99	ug/L		98
84) dibromochloromethane	14.341	129	161162	46.91	ug/L		99
85) 1,2-dibromoethane	14.488	107	134472	37.71	ug/L		97
86) n-butyl ether	14.881	57	451600	42.08	ug/L		99
87) chlorobenzene	14.923	112	310309	43.92	ug/L		97
88) 1,1,1,2-tetrachloroethane	14.970	131	132010	48.69	ug/L		95
89) ethylbenzene	14.991	91	544494	46.34	ug/L		99
90) m,p-xylene	15.086	106	411587	94.39	ug/L		100
91) o-xylene	15.463	106	196776	46.50	ug/L		98
92) styrene	15.463	104	338769	47.23	ug/L		98
93) bromoform	15.667	173	128660	47.08	ug/L		99
94) butyl acrylate	15.285	55	257545	40.64	ug/L		99
95) isopropylbenzene	15.778	105	513755	48.90	ug/L		99
96) cis-1,4-dichloro-2-butene	15.788	88	63032	44.23	ug/L	#	84
99) bromobenzene	16.118	156	147843	44.41	ug/L		92
100) 1,1,2,2-tetrachloroethane	15.987	83	171637	39.84	ug/L		97
101) trans-1,4-dichloro-2-b...	16.034	53	47271	41.11	ug/L		89
102) 1,2,3-trichloropropane	16.066	110	50185	42.60	ug/L		98
103) n-propylbenzene	16.145	91	572034	43.52	ug/L		99
104) 2-chlorotoluene	16.270	126	120057	45.22	ug/L		93
105) 4-chlorotoluene	16.360	91	361366	41.53	ug/L		96
106) 1,3,5-trimethylbenzene	16.281	105	395427	44.53	ug/L		98
107) tert-butylbenzene	16.606	134	70150	44.40	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kenrickb\voa\08-20-2021\v4d4985\
Data File : 4d111924.d
Acq On : 19 Aug 2021 4:17 pm
Operator : jons2
Sample : jd29818-21ms Inst : MS4D
Misc : MS52961,V4D4985,5,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Results File: M4D4892.RES
Quant Time: Aug 20 03:27:17 2021
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:43:19 2021
Response via : Initial Calibration

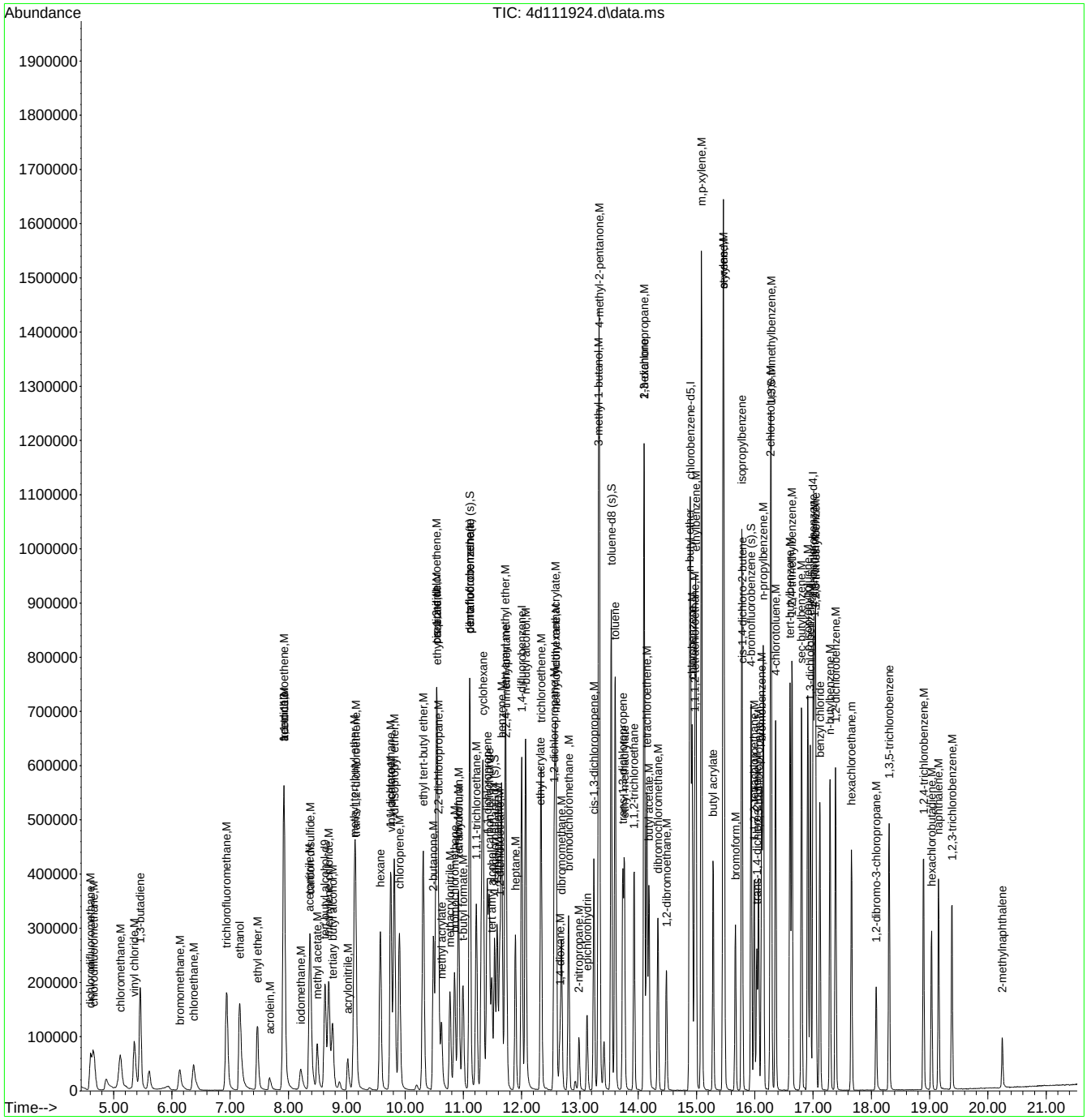
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2,4-trimethylbenzene	16.637	105	394977	44.39	ug/L	99
109) sec-butylbenzene	16.800	105	449775	43.92	ug/L	97
110) 1,3-dichlorobenzene	16.952	146	233681	43.84	ug/L	99
111) p-isopropyltoluene	16.910	119	382052	45.67	ug/L	98
112) 1,4-dichlorobenzene	17.025	146	236799	43.36	ug/L	98
113) 1,2,3-trimethylbenzene	17.046	105	388354	43.22	ug/L	100
114) benzyl chloride	17.115	91	342338	45.19	ug/L	99
115) 1,2-dichlorobenzene	17.387	146	222552	44.33	ug/L	99
116) n-butylbenzene	17.293	92	161062	46.19	ug/L	95
117) 1,2-dibromo-3-chloropr...	18.085	157	48299	41.06	ug/L	92
118) 1,3,5-trichlorobenzene	18.305	180	147749	50.83	ug/L	94
120) 1,2,4-trichlorobenzene	18.897	180	119355	50.17	ug/L	97
121) hexachlorobutadiene	19.034	225	59495	50.05	ug/L	98
122) naphthalene	19.154	128	277341	44.40	ug/L	97
123) 1,2,3-trichlorobenzene	19.385	180	100814	47.98	ug/L	96
124) hexachloroethane	17.660	201	77999	46.20	ug/L	96
125) 2-methylnaphthalene	20.245	142	46831	29.82	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kenrickb\voa\08-20-2021\v4d4985\
Data File : 4d111924.d
Acq On : 19 Aug 2021 4:17 pm
Operator : jons2
Sample : jd29818-21ms Inst : MS4D
Misc : MS52961,V4D4985,5,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Results File: M4D4892.RES
Quant Time: Aug 20 03:27:17 2021
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:43:19 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180238.d
Acq On : 18 Aug 2021 4:07 pm
Operator : PrashanS
Sample : JD29908-4DUP Inst : GCMS1C
Misc : MS53009,V1C7855,5.1,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 04:07:50 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

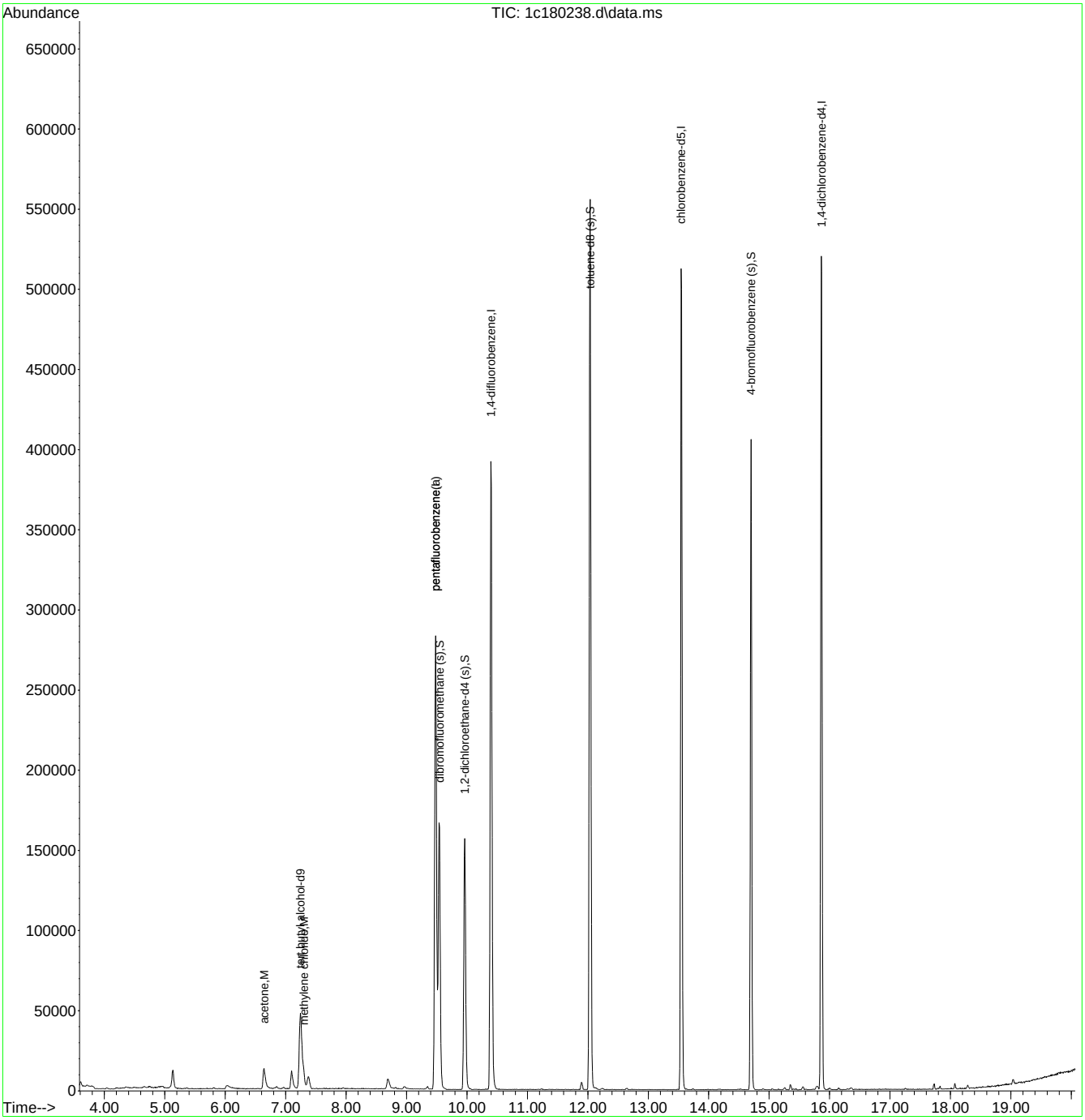
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.243	65	89720	500.00	ug/L	0.00
5) pentafluorobenzene	9.482	168	237538	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.397	114	365634	50.00	ug/L	0.00
73) chlorobenzene-d5	13.546	117	296445	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.868	152	137758	50.00	ug/L	0.00
125) pentafluorobenzene(a)	9.482	168	237538	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.544	113	117959	54.36	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 108.72%			
52) 1,2-dichloroethane-d4 (s)	9.963	65	119780	57.06	ug/L	0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 114.12%			
74) toluene-d8 (s)	12.039	98	402278	51.45	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 102.90%			
97) 4-bromofluorobenzene (s)	14.701	95	135166	50.38	ug/L	0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 100.76%			
Target Compounds						Qvalue
18) acetone	6.642	43	24899	43.75	ug/L	99
22) methylene chloride	7.301	84	4122	2.06	ug/L	91

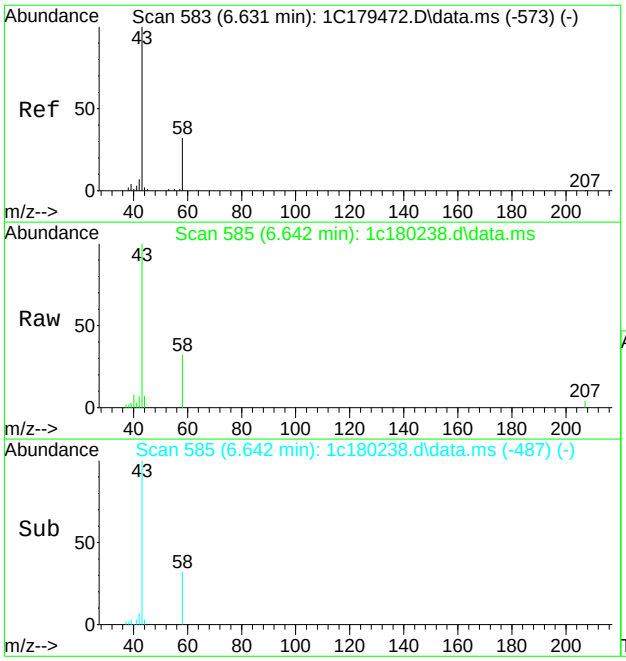
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180238.d
Acq On : 18 Aug 2021 4:07 pm
Operator : PrashanS
Sample : JD29908-4DUP Inst : GCMS1C
Misc : MS53009,V1C7855,5.1,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 04:07:50 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

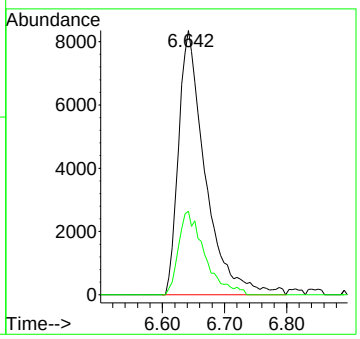


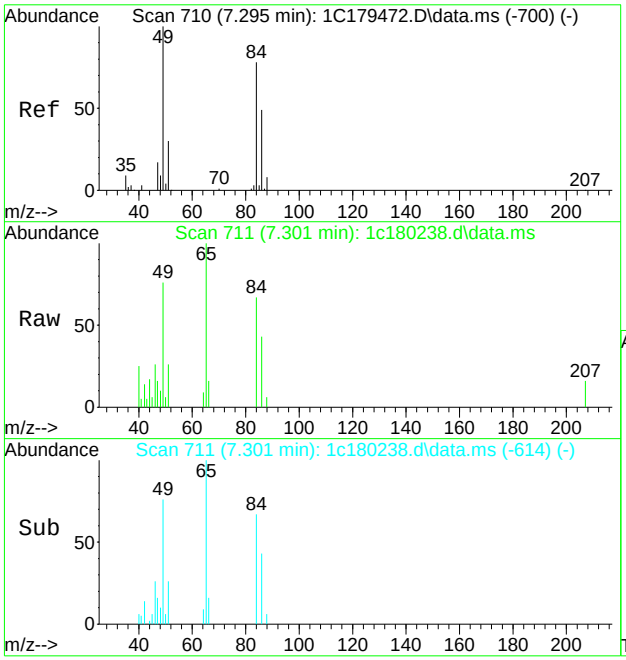


#18
acetone
Concen: 43.75 ug/L
RT: 6.642 min Scan# 585
Delta R.T. 0.010 min
Lab File: 1c180238.d
Acq: 18 Aug 2021 4:07 pm

Tgt Ion: 43 Resp: 24899

Ion	Ratio	Lower	Upper
43	100		
58	31.5	2.0	62.0

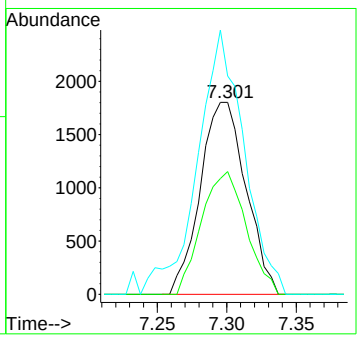




#22
methylene chloride
Concen: 2.06 ug/L
RT: 7.301 min Scan# 711
Delta R.T. 0.005 min
Lab File: 1c180238.d
Acq: 18 Aug 2021 4:07 pm

Tgt Ion: 84 Resp: 4122

Ion	Ratio	Lower	Upper
84	100		
86	63.9	32.9	92.9
49	113.8	99.1	159.1



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\2021\august 2021\08202021\v1c7856\
Data File : 1c180268.d
Acq On : 19 Aug 2021 4:07 pm
Operator : PrashanS
Sample : JD30019-2DUP Inst : GCMS1C
Misc : MS53048,V1C7856,4.8,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 20 02:12:30 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

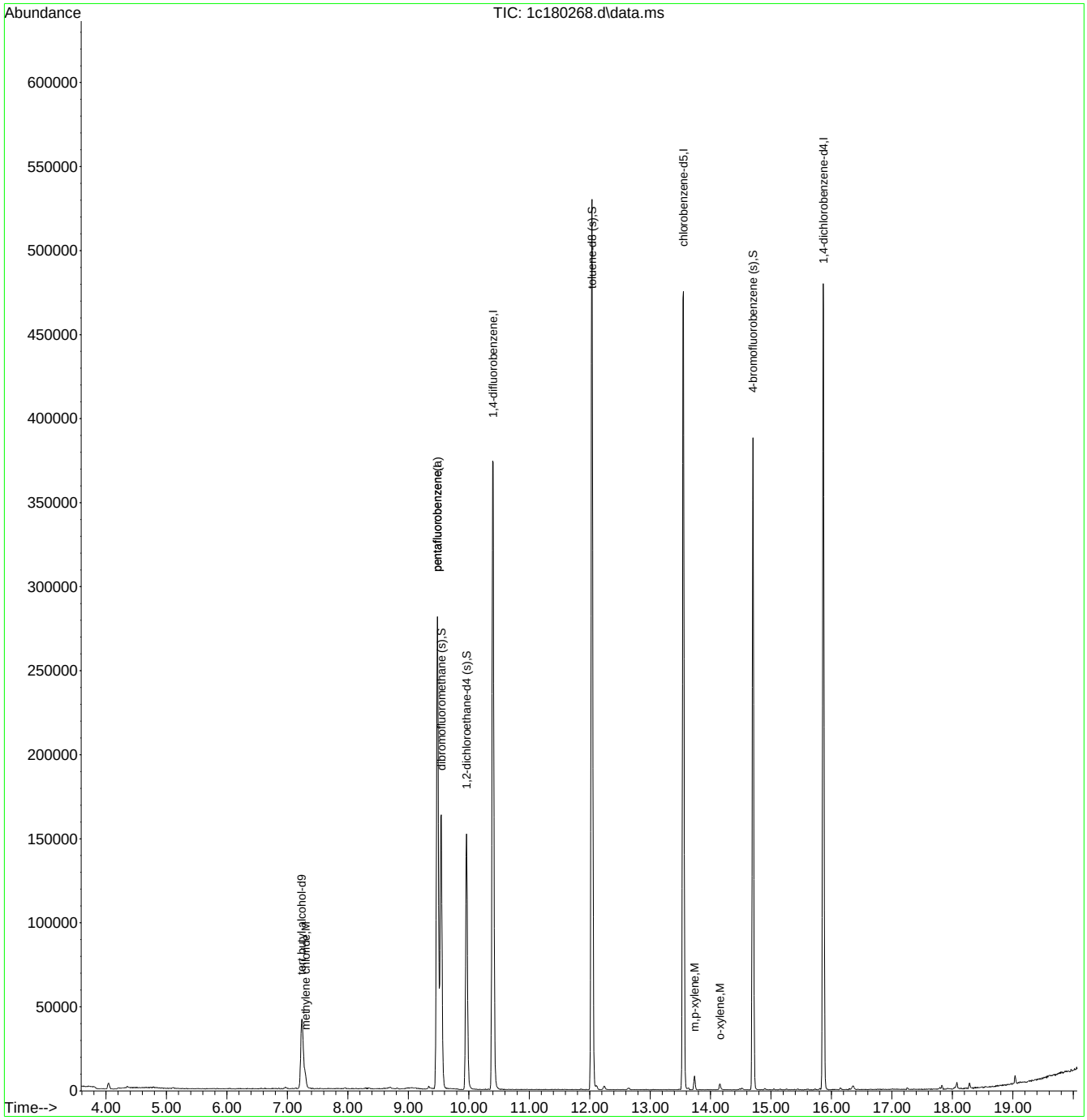
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.238	65	80063	500.00	ug/L	-0.01
5) pentafluorobenzene	9.482	168	233252	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.402	114	353572	50.00	ug/L	0.00
73) chlorobenzene-d5	13.551	117	282384	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.868	152	128481	50.00	ug/L	0.00
125) pentafluorobenzene(a)	9.482	168	233252	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.544	113	114399	53.68	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 107.36%			
52) 1,2-dichloroethane-d4 (s)	9.963	65	113738	56.03	ug/L	0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 112.06%			
74) toluene-d8 (s)	12.039	98	387533	52.03	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 104.06%			
97) 4-bromofluorobenzene (s)	14.701	95	126927	50.72	ug/L	0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 101.44%			
Target Compounds						Qvalue
22) methylene chloride	7.301	84	2899	1.48	ug/L	97
89) m,p-xylene	13.734	106	2617	0.88	ug/L #	80
90) o-xylene	14.157	106	1134	0.40	ug/L	96

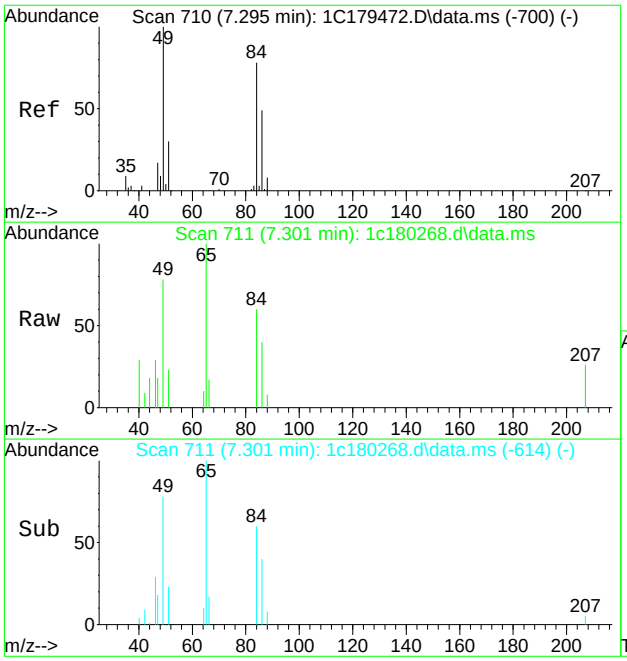
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\2021\august 2021\08202021\v1c7856\
Data File : 1c180268.d
Acq On : 19 Aug 2021 4:07 pm
Operator : PrashanS
Sample : JD30019-2DUP Inst : GCMS1C
Misc : MS53048,V1C7856,4.8,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 20 02:12:30 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

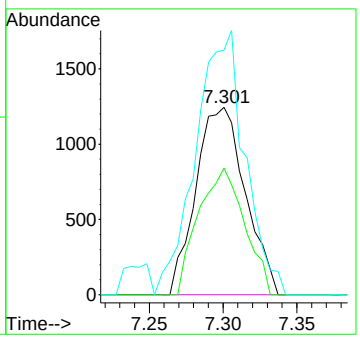


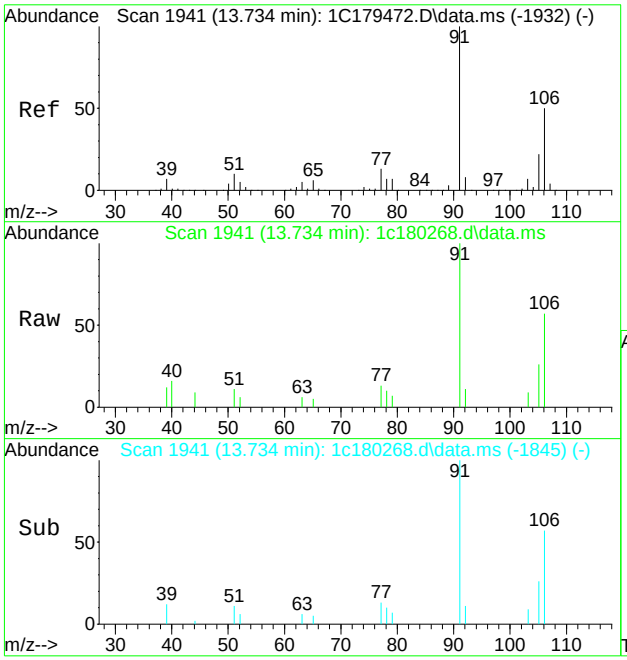


#22
methylene chloride
Concen: 1.48 ug/L
RT: 7.301 min Scan# 711
Delta R.T. 0.005 min
Lab File: 1c180268.d
Acq: 19 Aug 2021 4:07 pm

Tgt Ion: 84 Resp: 2899

Ion	Ratio	Lower	Upper
84	100		
86	67.6	32.9	92.9
49	130.5	99.1	159.1

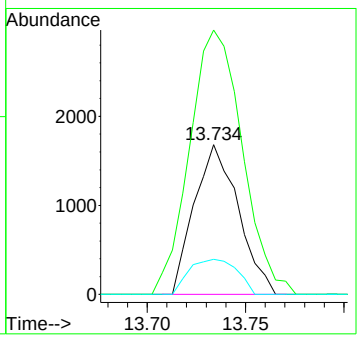


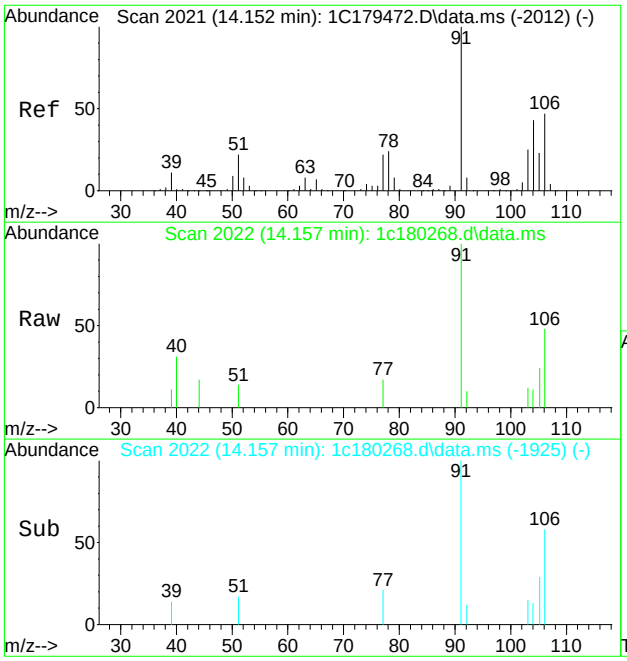


#89
m,p-xylene
Concen: 0.88 ug/L
RT: 13.734 min Scan# 1941
Delta R.T. 0.000 min
Lab File: 1c180268.d
Acq: 19 Aug 2021 4:07 pm

Tgt Ion:106 Resp: 2617

Ion	Ratio	Lower	Upper
106	100		
91	167.8	171.2	231.2#
77	23.4	0.0	56.8

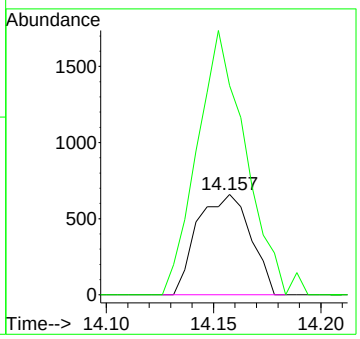




#90
o-xylene
Concen: 0.40 ug/L
RT: 14.157 min Scan# 2022
Delta R.T. 0.005 min
Lab File: 1c180268.d
Acq: 19 Aug 2021 4:07 pm

Tgt Ion:106 Resp: 1134

Ion	Ratio	Lower	Upper
106	100		
91	208.0	184.5	244.5



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v3c7462\
Data File : 3c168632.d
Acq On : 19 Aug 2021 4:19 pm
Operator : PrashanS
Sample : JD30038-2DUP Inst : MS3C
Misc : MS53053,V3C7462,5.1,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Results File: M3C7415.RES
Quant Time: Aug 20 02:06:58 2021
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Mon Jun 28 17:56:55 2021
Response via : Initial Calibration

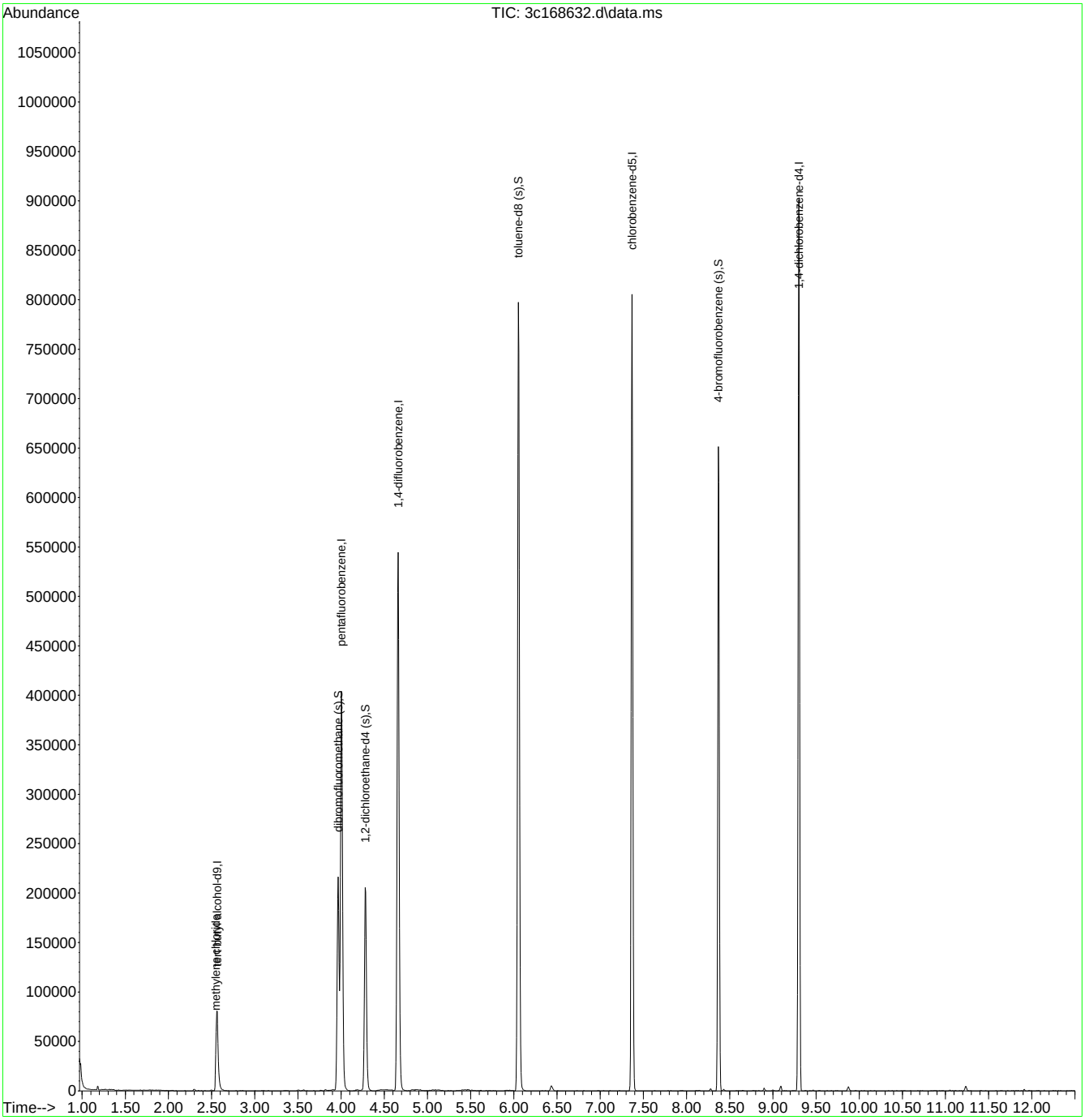
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	2.563	65	78016	500.00	ug/L	0.00
5) pentafluorobenzene	4.002	168	250833	50.00	ug/L	0.00
49) 1,4-difluorobenzene	4.661	114	394050	50.00	ug/L	0.00
71) chlorobenzene-d5	7.370	117	349015	50.00	ug/L	0.00
94) 1,4-dichlorobenzene-d4	9.300	152	174915	50.00	ug/L	0.00
System Monitoring Compounds						
42) dibromofluoromethane (s)	3.965	113	107827	49.94	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 99.88%			
50) 1,2-dichloroethane-d4 (s)	4.279	65	118076	50.53	ug/L	0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 101.06%			
72) toluene-d8 (s)	6.052	98	458464	49.75	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 99.50%			
95) 4-bromofluorobenzene (s)	8.369	95	168463	52.72	ug/L	0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 105.44%			
Target Compounds						Qvalue
21) methylene chloride	2.548	84	1484	0.83	ug/L	# 74

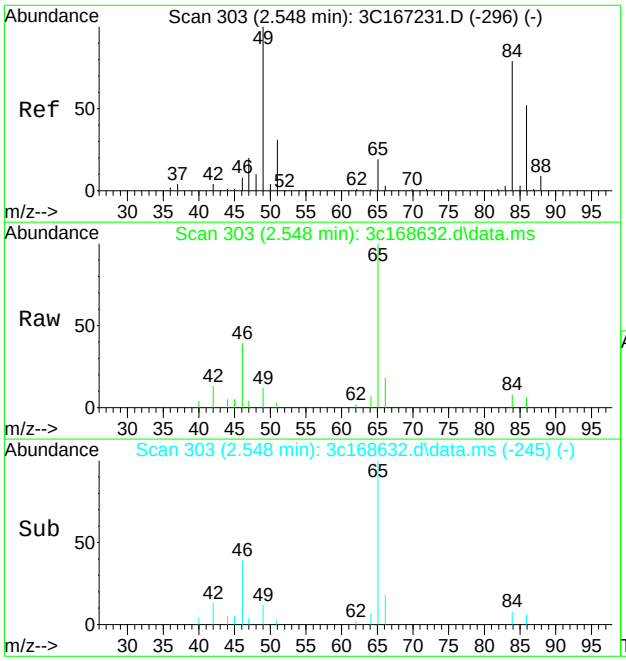
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v3c7462\
Data File : 3c168632.d
Acq On : 19 Aug 2021 4:19 pm
Operator : PrashanS
Sample : JD30038-2DUP Inst : MS3C
Misc : MS53053,V3C7462,5.1,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Results File: M3C7415.RES
Quant Time: Aug 20 02:06:58 2021
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Mon Jun 28 17:56:55 2021
Response via : Initial Calibration

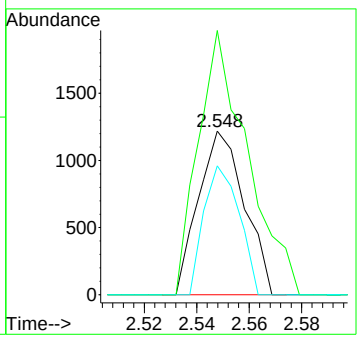




#21
methylene chloride
Concen: 0.83 ug/L
RT: 2.548 min Scan# 303
Delta R.T. 0.001 min
Lab File: 3c168632.d
Acq: 19 Aug 2021 4:19 pm

Tgt Ion: 84 Resp: 1484

Ion	Ratio	Lower	Upper
84	100		
49	161.4	96.3	156.3#
86	78.7	35.7	95.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kenrickb\voa\08-20-2021\v4d4985\
Data File : 4d111926.d
Acq On : 19 Aug 2021 5:15 pm
Operator : jons2
Sample : jd29818-24dup Inst : MS4D
Misc : MS52961,V4D4985,5,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Results File: M4D4892.RES
Quant Time: Aug 20 03:39:47 2021
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:43:19 2021
Response via : Initial Calibration

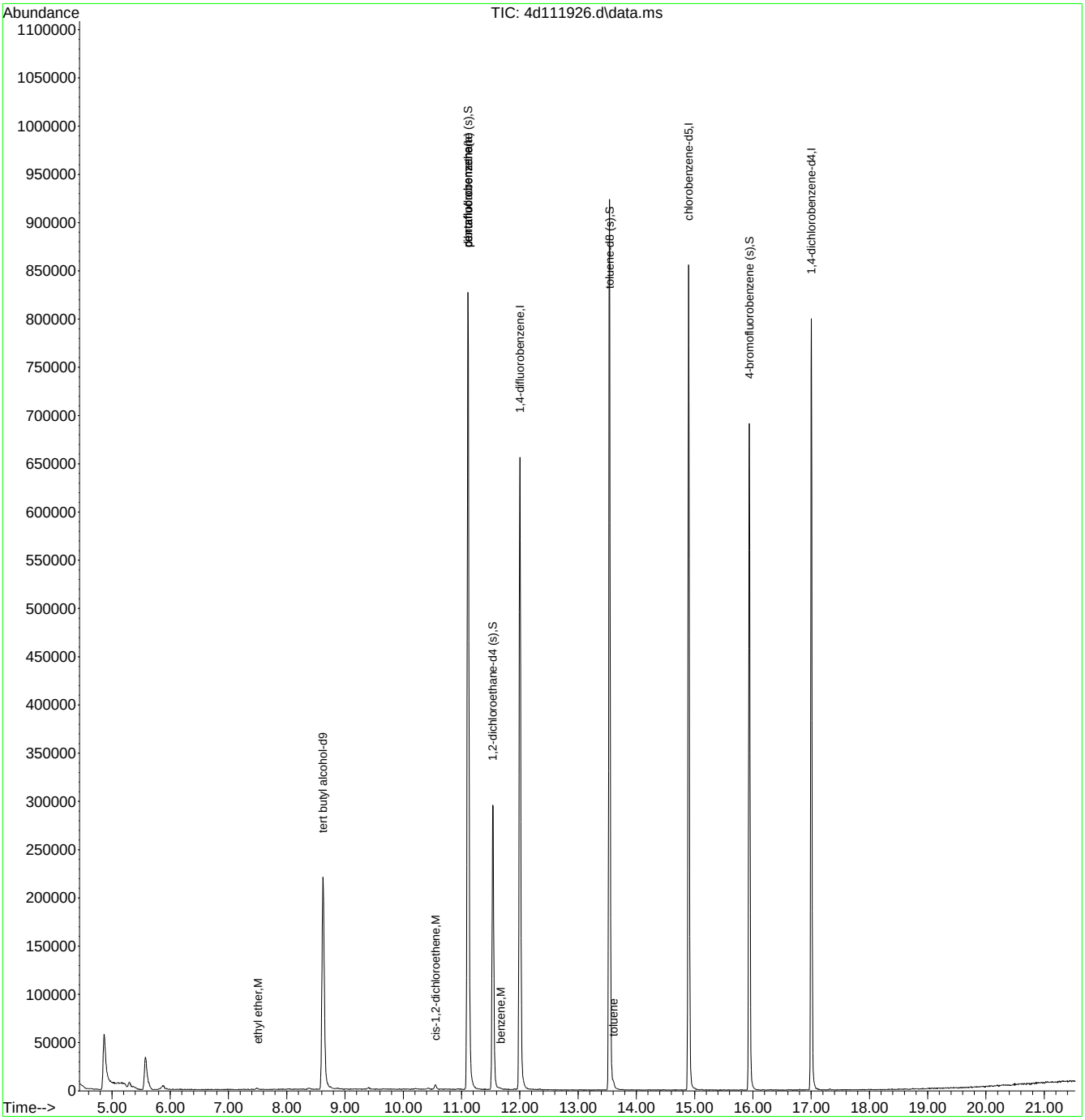
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.621	65	347719	500.00	ug/L	-0.01
5) pentafluorobenzene	11.111	168	403929	50.00	ug/L	0.00
52) 1,4-difluorobenzene	12.003	114	544489	50.00	ug/L	0.00
74) chlorobenzene-d5	14.897	117	438934	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.004	152	191560	50.00	ug/L	0.00
126) pentafluorobenzene(a)	11.111	168	403929	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	11.111	113	193886	50.83	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.66%			
53) 1,2-dichloroethane-d4 (s)	11.536	65	237547	59.47	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 118.94%			
75) toluene-d8 (s)	13.539	98	578000	48.09	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 96.18%			
98) 4-bromofluorobenzene (s)	15.940	95	201870	48.24	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 96.48%			
Target Compounds						Qvalue
15) ethyl ether	7.504	74	748	0.44	ug/L #	75
37) cis-1,2-dichloroethene	10.555	96	3062	0.88	ug/L	80
56) benzene	11.672	78	1614	0.14	ug/L	95
76) toluene	13.607	92	2189	0.32	ug/L	94

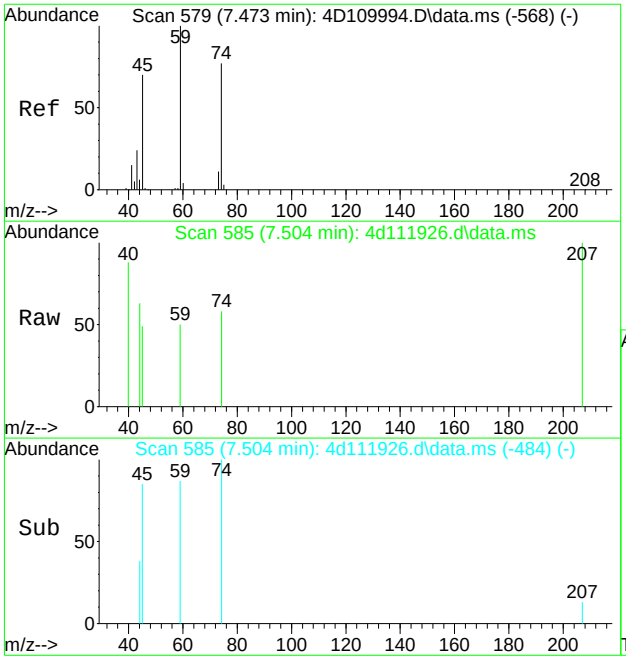
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kenrickb\voa\08-20-2021\v4d4985\
Data File : 4d111926.d
Acq On : 19 Aug 2021 5:15 pm
Operator : jons2
Sample : jd29818-24dup Inst : MS4D
Misc : MS52961,V4D4985,5,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Results File: M4D4892.RES
Quant Time: Aug 20 03:39:47 2021
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:43:19 2021
Response via : Initial Calibration

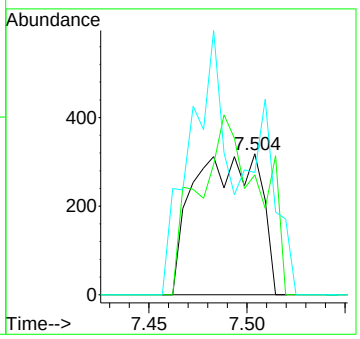


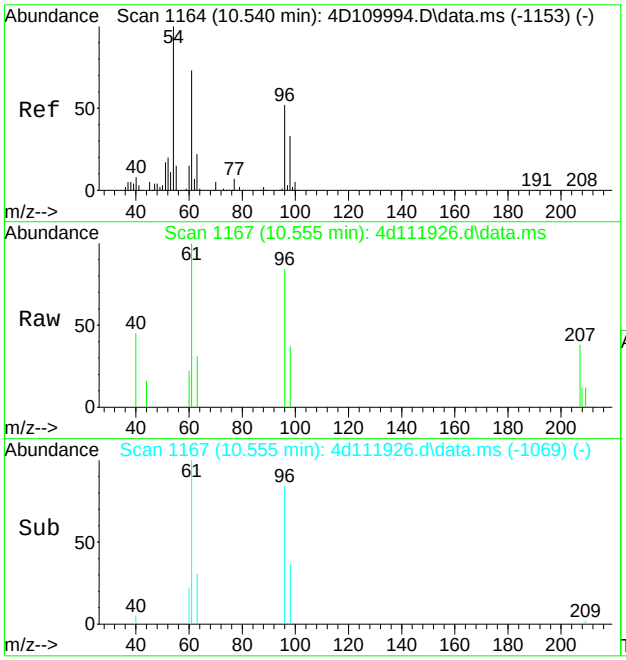


#15
ethyl ether
Concen: 0.44 ug/L
RT: 7.504 min Scan# 585
Delta R.T. 0.031 min
Lab File: 4d111926.d
Acq: 19 Aug 2021 5:15 pm

Tgt Ion: 74 Resp: 748

Ion	Ratio	Lower	Upper
74	100		
45	85.2	62.5	122.5
59	86.8	100.5	160.5#

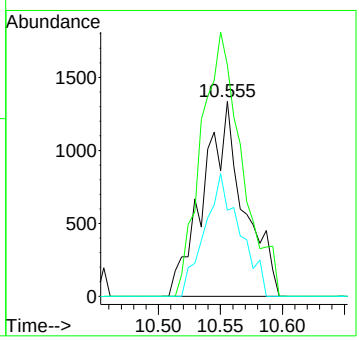


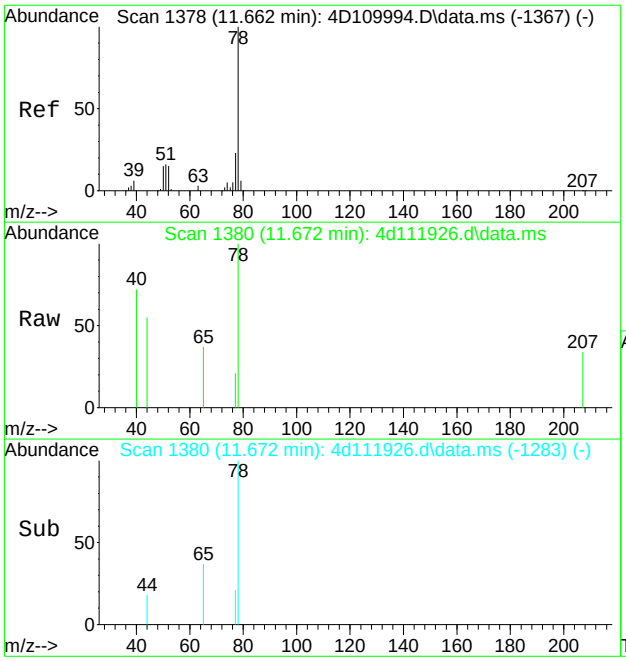


#37
cis-1,2-dichloroethene
Concen: 0.88 ug/L
RT: 10.555 min Scan# 1167
Delta R.T. 0.015 min
Lab File: 4d111926.d
Acq: 19 Aug 2021 5:15 pm

Tgt Ion: 96 Resp: 3062

Ion	Ratio	Lower	Upper
96	100		
61	118.6	109.9	169.9
98	44.2	33.6	93.6

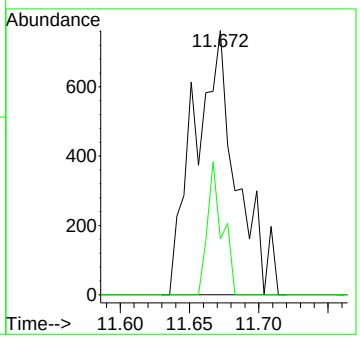


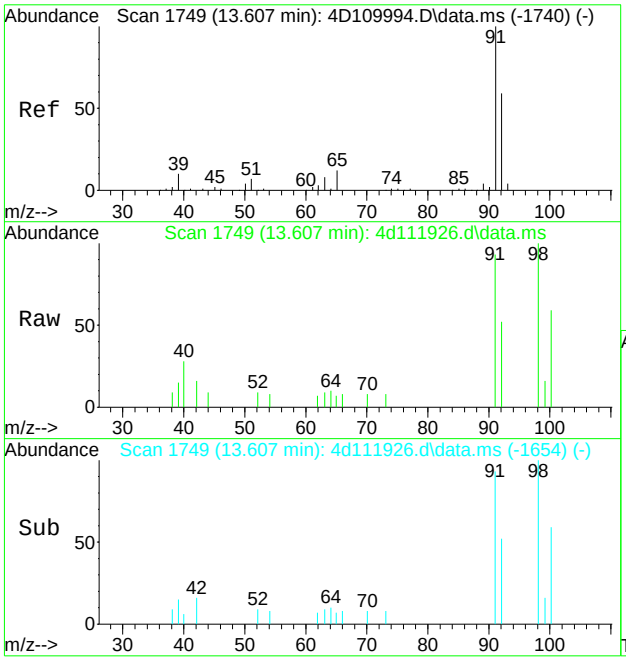


#56
benzene
Concen: 0.14 ug/L
RT: 11.672 min Scan# 1380
Delta R.T. 0.010 min
Lab File: 4d111926.d
Acq: 19 Aug 2021 5:15 pm

Tgt Ion: 78 Resp: 1614

Ion	Ratio	Lower	Upper
78	100		
77	21.1	0.0	53.4

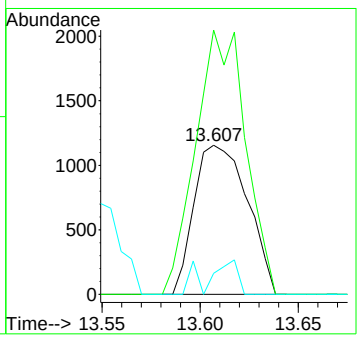




#76
toluene
Concen: 0.32 ug/L
RT: 13.607 min Scan# 1749
Delta R.T. -0.000 min
Lab File: 4d111926.d
Acq: 19 Aug 2021 5:15 pm

Tgt Ion: 92 Resp: 2189

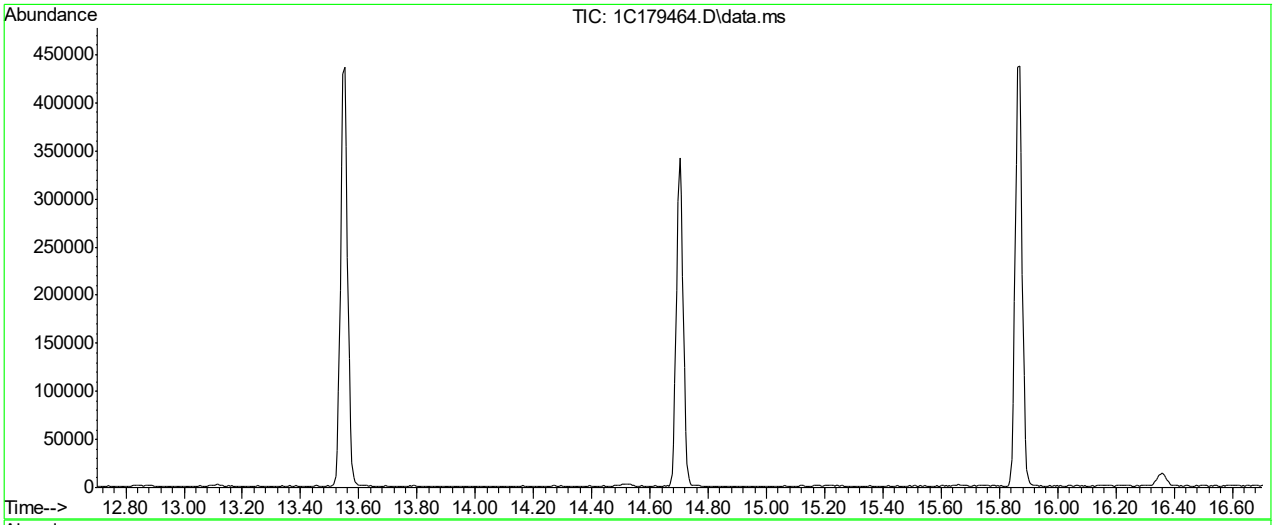
Ion	Ratio	Lower	Upper
92	100		
91	177.4	150.0	190.0
65	14.2	0.2	40.2



SW-846 Method 8260

Data File : C:\msdchem\1\DATA\V1C7827\1C179464.D Vial: 1
Acq On : 15 Jul 2021 7:04 pm Operator: PrashanS
Sample : BFB Inst : GCMS1C
Misc : MS52150,V1C7827,5.0,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M (RTE Integrator)
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um



AutoFind: Scans 2125, 2126, 2127; Background Corrected with Scan 2116

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.2	10860	PASS
75	95	30	60	44.3	29650	PASS
95	95	100	100	100.0	66877	PASS
96	95	5	9	6.3	4243	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	88.2	58986	PASS
175	174	5	9	7.8	4574	PASS
176	174	95	101	96.9	57141	PASS
177	176	5	9	6.4	3651	PASS

1C179464.D M1CS7827.M Fri Jul 16 19:56:49 2021

Average of 14.696 to 14.707 min.: 1C179464.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.15	523	51.10	3327	67.20	134	78.20	88
37.10	2690	52.10	110	68.10	6140	79.00	1376
38.10	2369	55.15	193	69.10	5988	80.05	437
39.10	969	56.05	757	70.10	466	81.00	1469
40.00	39	57.10	1320	72.05	278	81.95	272
44.10	254	60.10	501	73.10	2543	87.00	3137
45.10	531	61.10	2406	74.10	9116	88.00	3315
47.10	969	62.10	2481	75.10	29650	90.95	211
48.05	327	63.10	1938	76.10	2470	92.10	1597
49.10	2215	64.05	182	77.10	425	93.10	2394
50.10	10860	67.00	51	77.95	192	94.10	7042

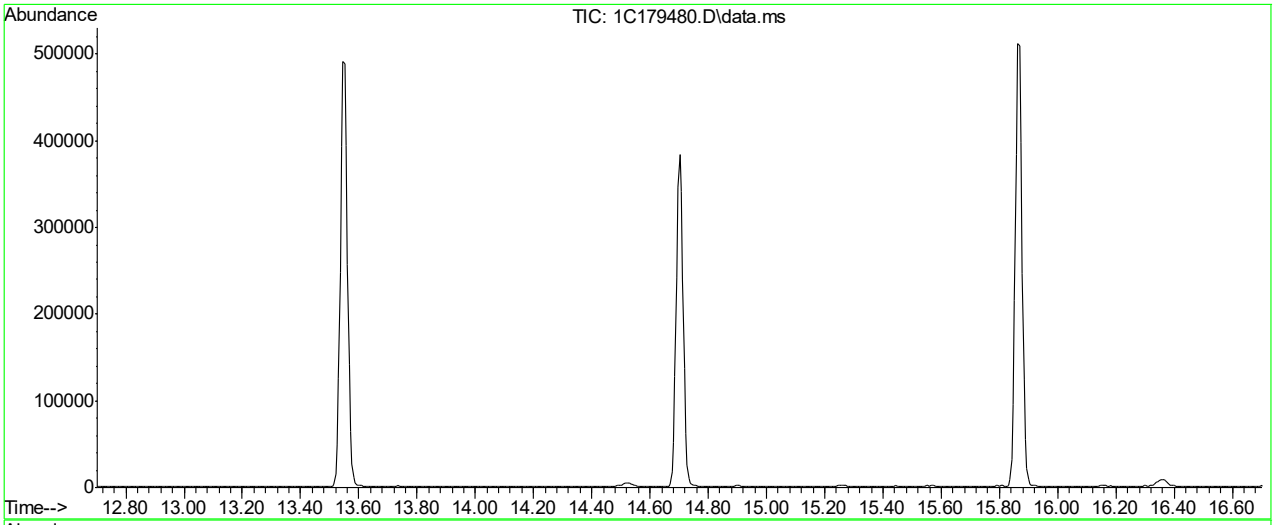
Average of 14.696 to 14.707 min.: 1C179464.D\data.ms
BFB
Modified:subtracted

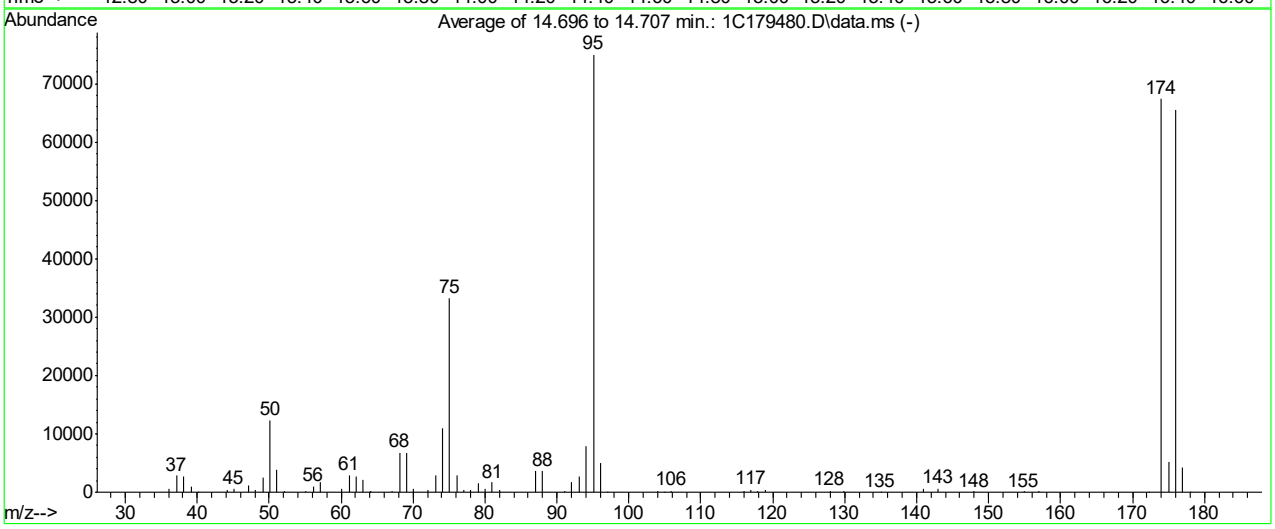
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.10	66877	140.95	602				
96.10	4243	143.00	596				
97.10	97	154.95	120				
104.00	218	174.00	58986				
105.95	263	175.00	4574				
115.95	192	176.00	57141				
116.95	389	177.00	3651				
117.90	239						
119.00	308						
127.95	238						
129.95	229						

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\V1C7827\1C179480.D Vial: 17
Acq On : 16 Jul 2021 11:04 am Operator: PrashanS
Sample : BFB2 Inst : GCMS1C
Misc : MS52150,V1C7827,5.0,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M (RTE Integrator)
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um





AutoFind: Scans 2125, 2126, 2127; Background Corrected with Scan 2116

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.4	12305	PASS
75	95	30	60	44.4	33320	PASS
95	95	100	100	100.0	74986	PASS
96	95	5	9	6.8	5062	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	89.9	67389	PASS
175	174	5	9	7.7	5194	PASS
176	174	95	101	97.2	65469	PASS
177	176	5	9	6.6	4307	PASS

1C179480.D M1CS7827.M Fri Jul 16 20:45:53 2021

Average of 14.696 to 14.707 min.: 1C179480.D\data.ms
BFB2
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	531	51.10	3846	67.15	130	79.00	1625
37.10	2814	52.15	182	68.10	6768	80.00	489
38.10	2650	55.10	231	69.10	6638	81.00	1649
39.15	995	56.10	981	70.10	592	82.00	378
40.05	57	57.10	1752	72.05	384	87.05	3600
44.10	307	60.10	611	73.10	2876	88.00	3644
45.05	571	61.10	2901	74.10	10956	91.05	290
47.10	1115	62.10	2772	75.10	33320	92.05	1826
48.05	336	63.10	2033	76.10	2936	93.10	2753
49.10	2586	63.90	49	77.05	408	94.10	7823
50.10	12305	64.10	154	77.95	305	95.10	74986

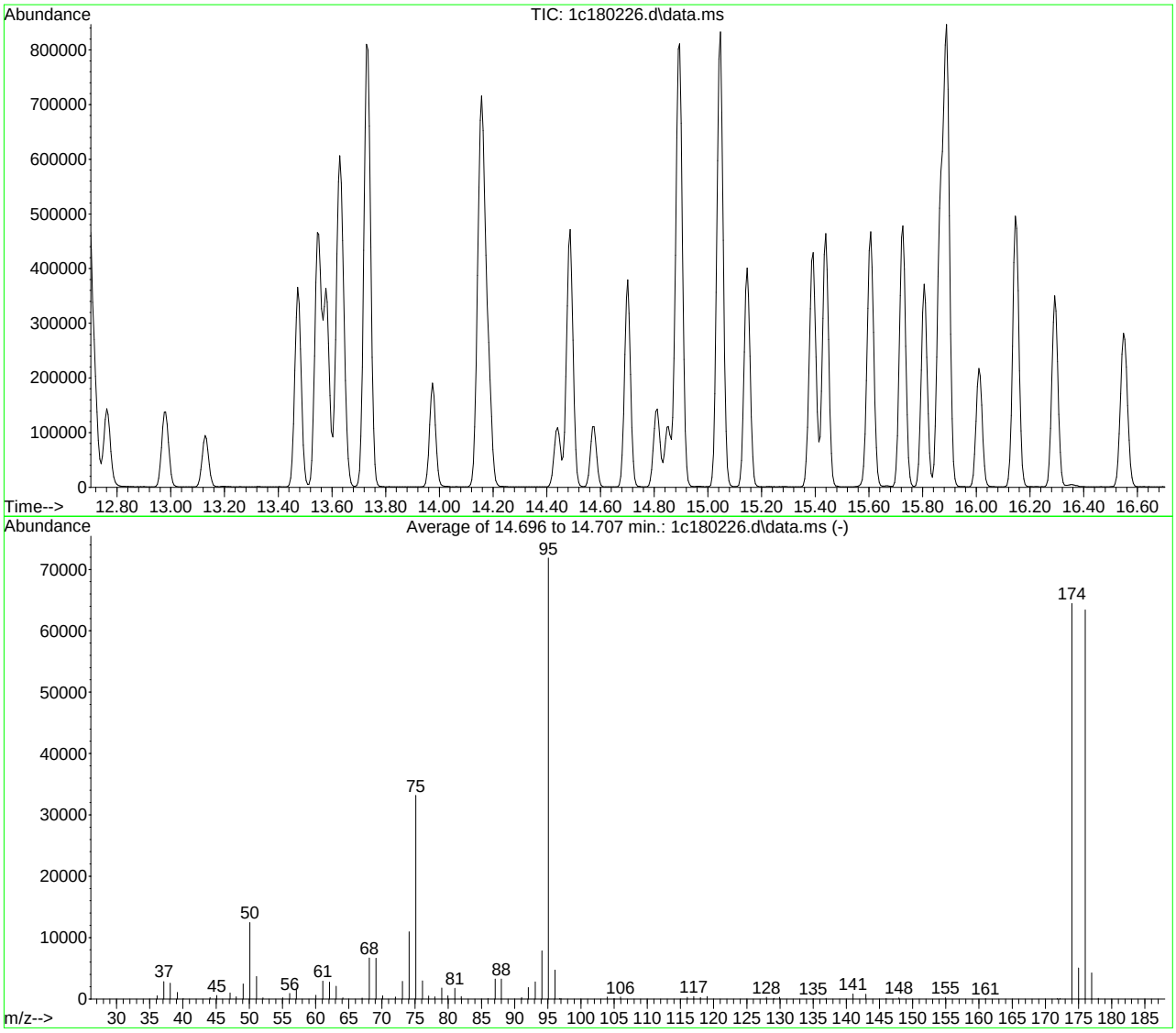
Average of 14.696 to 14.707 min.: 1C179480.D\data.ms
BFB2
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
96.10	5062	134.95	103	178.00	51		
97.00	60	141.00	624				
103.95	252	143.00	638				
105.00	66	148.00	190				
105.95	274	154.95	183				
115.95	219	156.95	111				
117.00	432	172.20	49				
117.95	241	174.00	67389				
119.00	347	175.00	5194				
127.95	256	176.00	65469				
129.95	255	177.00	4307				

SW-846 Method 8260

Data File : C:\msdchem\1\data\ni...21\v1c7855\1c180226.d Vial: 1
Acq On : 18 Aug 2021 10:17 am Operator: PrashanS
Sample : bfb Inst : GCMS1C
Misc : MS52972,V1C7855,5.0,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M (RTE Integrator)
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um



AutoFind: Scans 2125, 2126, 2127; Background Corrected with Scan 2116

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.3	12451	PASS
75	95	30	60	46.2	33173	PASS
95	95	100	100	100.0	71851	PASS
96	95	5	9	6.5	4703	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	89.7	64472	PASS
175	174	5	9	7.8	5055	PASS
176	174	95	101	98.3	63403	PASS
177	176	5	9	6.7	4270	PASS

1c180226.d M1CS7827.M Thu Aug 19 03:54:08 2021

Average of 14.696 to 14.707 min.: 1c180226.d\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	534	51.10	3676	68.10	6698	79.95	543
37.10	2850	52.05	182	69.10	6655	81.00	1740
38.10	2572	55.05	193	70.10	526	81.95	383
39.15	1064	56.10	902	72.05	335	86.00	55
40.05	4	57.10	1551	73.10	2887	87.05	3228
44.10	247	60.05	604	74.10	10960	88.00	3234
45.10	551	61.10	2894	75.10	33173	91.05	234
47.10	977	62.10	2765	76.10	2956	92.05	1864
48.05	373	63.10	2071	77.05	474	93.10	2770
49.10	2453	64.10	208	77.95	348	94.10	7847
50.10	12451	67.00	164	79.00	1777	95.10	71851

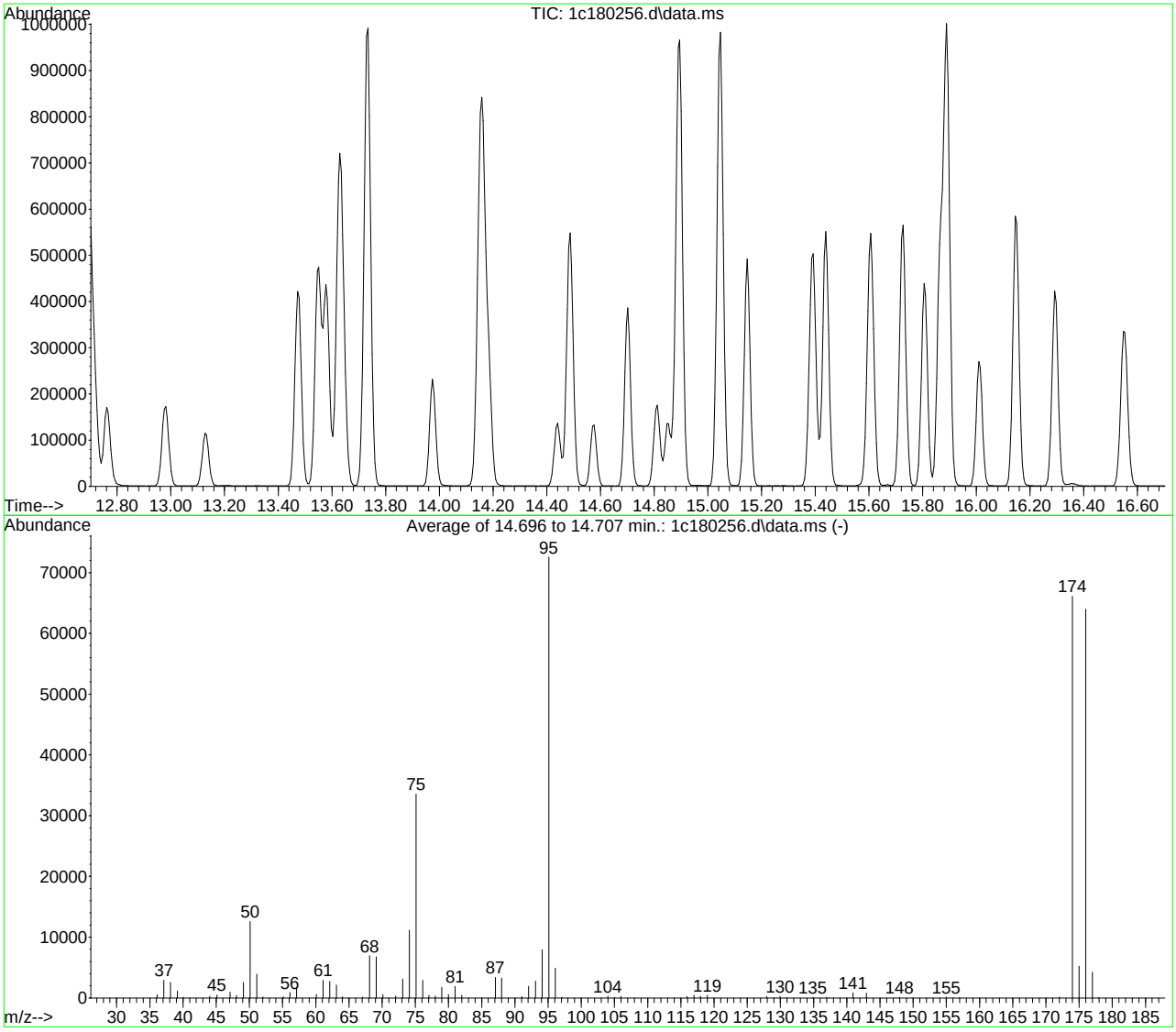
Average of 14.696 to 14.707 min.: 1c180226.d\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
96.10	4703	129.10	102	172.20	73		
96.80	49	129.95	270	174.00	64472		
97.00	50	135.00	50	175.00	5055		
103.95	315	136.95	114	176.00	63403		
105.00	60	141.00	825	177.00	4270		
105.95	319	142.95	756	178.00	105		
116.05	261	146.00	52				
117.00	403	147.95	192				
118.00	253	154.95	177				
119.00	389	161.00	57				
127.95	287	171.80	54				

SW-846 Method 8260

Data File : C:\msdchem\1\data\da...c7856-rush\1c180256.d Vial: 1
Acq On : 19 Aug 2021 10:20 am Operator: PrashanS
Sample : BFB Inst : GCMS1C
Misc : MS53008,V1C7856,5.0,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M1CS7827.M (RTE Integrator)
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um



AutoFind: Scans 2125, 2126, 2127; Background Corrected with Scan 2116

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.3	12582	PASS
75	95	30	60	46.2	33552	PASS
95	95	100	100	100.0	72549	PASS
96	95	5	9	6.7	4866	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	91.1	66112	PASS
175	174	5	9	7.9	5242	PASS
176	174	95	101	96.8	63968	PASS
177	176	5	9	6.6	4241	PASS

1c180256.d M1CS7827.M Thu Aug 19 13:06:34 2021

Average of 14.696 to 14.707 min.: 1c180256.d\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	524	51.10	3902	68.10	6967	80.00	575
37.10	2946	52.05	146	69.10	6746	81.00	1872
38.10	2576	55.10	213	70.10	553	82.00	430
39.15	1115	56.10	909	72.05	324	87.05	3352
40.05	120	57.10	1682	73.10	3119	88.00	3291
44.05	290	60.10	572	74.10	11128	91.05	249
45.10	511	61.10	2906	75.10	33552	92.05	1947
47.10	949	62.10	2738	76.10	2888	93.10	2785
48.05	386	63.10	2137	77.05	461	94.10	7927
49.10	2567	64.05	196	78.00	315	95.10	72549
50.10	12582	67.05	167	79.00	1743	96.10	4866

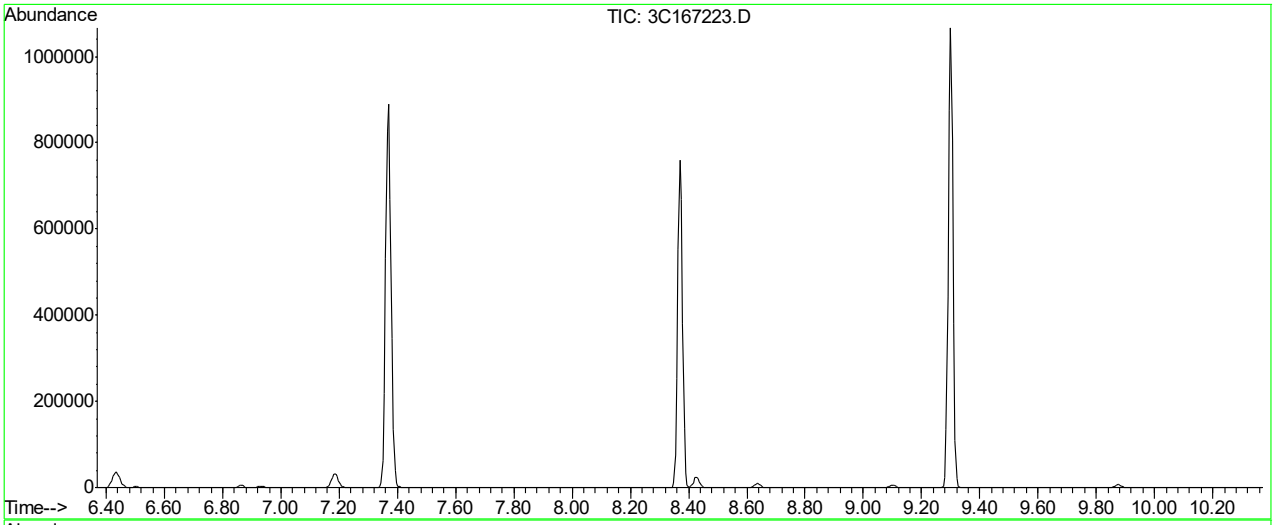
Average of 14.696 to 14.707 min.: 1c180256.d\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
97.10	125	130.90	47	176.00	63968		
104.00	282	134.90	49	177.00	4241		
105.00	58	136.95	104	177.90	51		
105.95	266	140.95	808				
115.95	251	142.95	802				
117.00	457	147.95	130				
117.95	259	155.00	140				
119.00	464	157.00	56				
127.95	251	172.05	132				
129.00	55	174.00	66112				
129.95	289	175.00	5242				

SW-846 Method 8260

Data File : C:\MSDCHEM\1\DATA\V3C7415\3C167223.D Vial: 1
Acq On : 16 Jun 2021 4:55 pm Operator: PrashanS
Sample : BFB Inst : MS3C
Misc : MS50065,V3C7415,5.0,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M3C7415.M (RTE Integrator)
Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um



AutoFind: Scans 1415, 1416, 1417; Background Corrected with Scan 1408

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	25957	PASS
75	95	30	60	49.3	66661	PASS
95	95	100	100	100.0	135109	PASS
96	95	5	9	6.8	9191	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	87.5	118200	PASS
175	174	5	9	7.8	9185	PASS
176	174	95	101	98.1	116005	PASS
177	176	5	9	6.6	7690	PASS

3C167223.D M3C7415.M Mon Jun 28 18:00:52 2021 MS3C

Average of 8.364 to 8.374 min.: 3C167223.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1102	51.00	7868	67.00	278	78.90	3025
37.00	6445	51.95	404	68.00	13395	79.85	880
38.00	5652	54.90	103	69.00	13754	80.90	3046
39.00	2240	55.10	105	70.00	1004	81.70	132
39.90	61	56.00	1955	71.95	678	81.90	453
44.00	876	57.00	3466	73.00	5677	86.95	4913
45.00	1185	60.00	1244	74.00	22258	87.95	4564
47.00	1451	61.00	5850	75.00	66661	90.80	291
47.95	770	62.00	6076	76.00	6088	91.00	188
49.00	5326	63.00	4727	76.95	629	91.95	3570
50.00	25957	64.00	460	77.95	477	92.95	5464

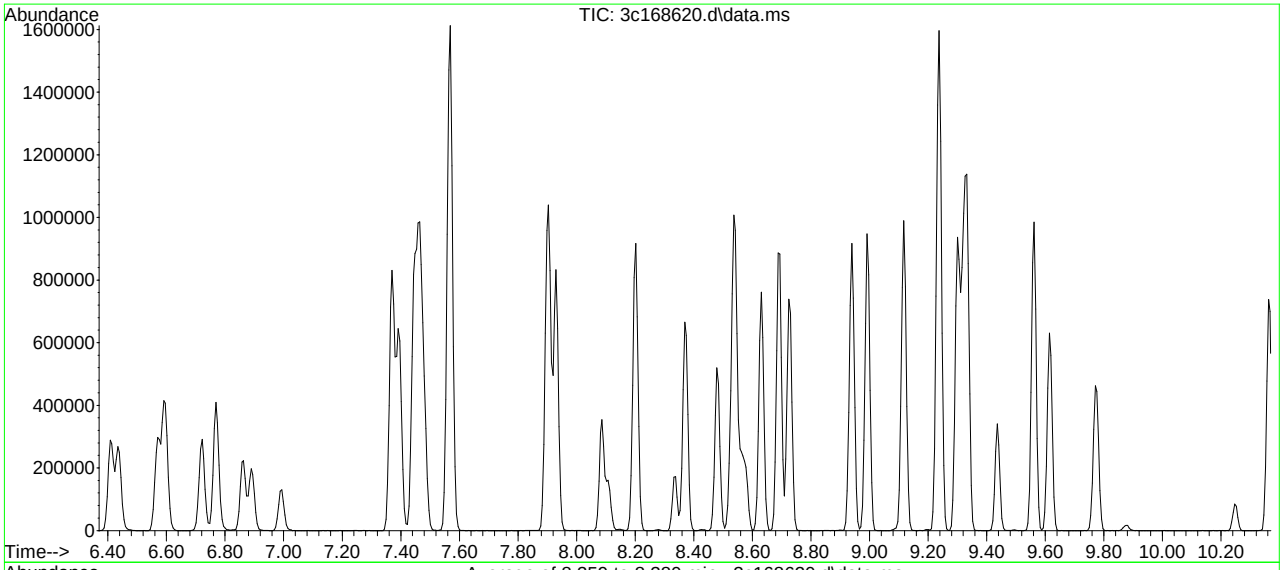
Average of 8.364 to 8.374 min.: 3C167223.D
BFB
Modified:subtracted

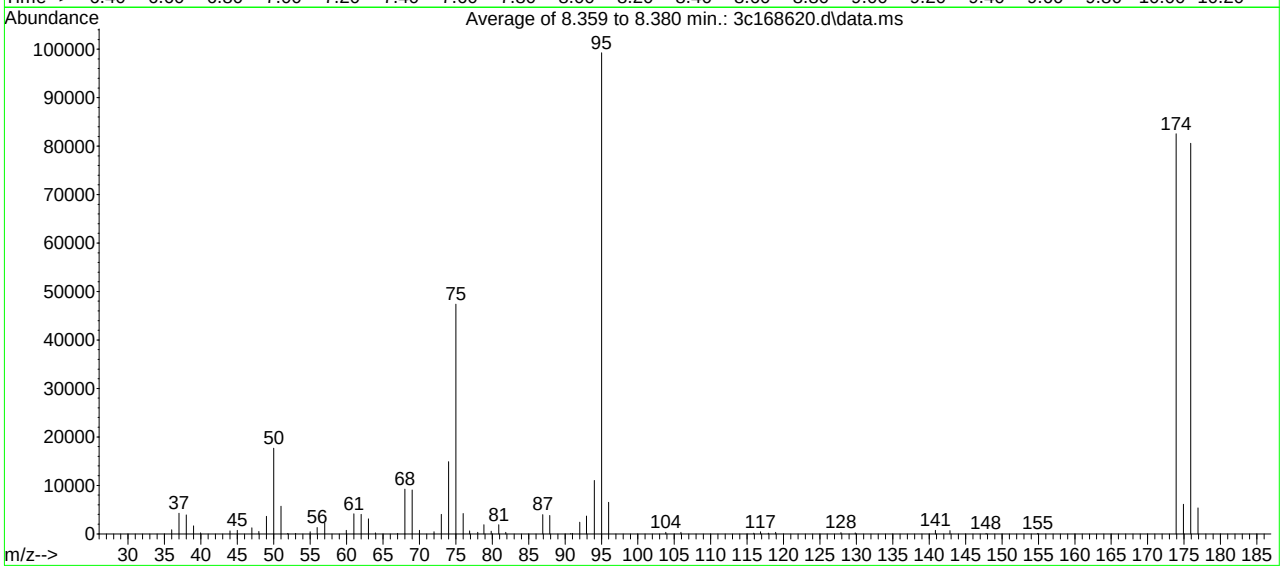
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.00	15874	127.85	493				
95.00	135109	129.90	495				
96.00	9191	134.90	115				
97.00	105	140.85	1221				
103.85	532	142.90	1373				
105.90	469	154.90	390				
115.85	397	156.80	109				
116.85	841	173.90	118200				
117.80	277	174.90	9185				
118.00	171	175.90	116005				
118.85	664	176.90	7690				

SW-846 Method 8260

Data File : C:\msdchem\1\data\ni...21\v3c7462\3c168620.d Vial: 3
Acq On : 19 Aug 2021 11:03 am Operator: PrashanS
Sample : bfb Inst : MS3C
Misc : MS52986,V3C7462,5.0,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M3C7415.M (RTE Integrator)
Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um





Spectrum Information: Average of 8.359 to 8.380 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.8	17697	PASS
75	95	30	60	47.7	47384	PASS
95	95	100	100	100.0	99245	PASS
96	95	5	9	6.5	6496	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	83.2	82528	PASS
175	174	5	9	7.4	6127	PASS
176	174	95	101	97.6	80560	PASS
177	176	5	9	6.6	5353	PASS

3c168620.d M3C7415.M Fri Aug 20 01:42:54 2021

Average of 8.359 to 8.380 min.: 3c168620.d\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	857.4	51.00	5678.6	67.00	61.6	78.85	1902.4
37.00	4278.8	51.90	72.6	68.00	9242.4	79.85	535.8
38.00	3894.2	53.00	65.8	69.00	9050.6	80.90	1885.4
39.00	1645.8	55.00	414	70.00	711.8	81.85	340.2
39.95	199	55.95	1279	72.00	440.4	86.95	3939.8
44.00	587.8	57.00	2221.6	73.00	4005.4	87.90	3815.6
45.00	751.8	59.95	735.6	74.00	14881.6	90.80	74.8
47.00	1270.2	61.00	4126.2	75.00	47384	91.00	99.4
47.95	503.2	62.00	4038.2	76.00	4194.2	92.00	2403.4
49.00	3606.6	63.00	3086.8	76.90	588.6	92.95	3685.2
50.00	17696.8	63.95	203.2	78.00	307	94.00	10995

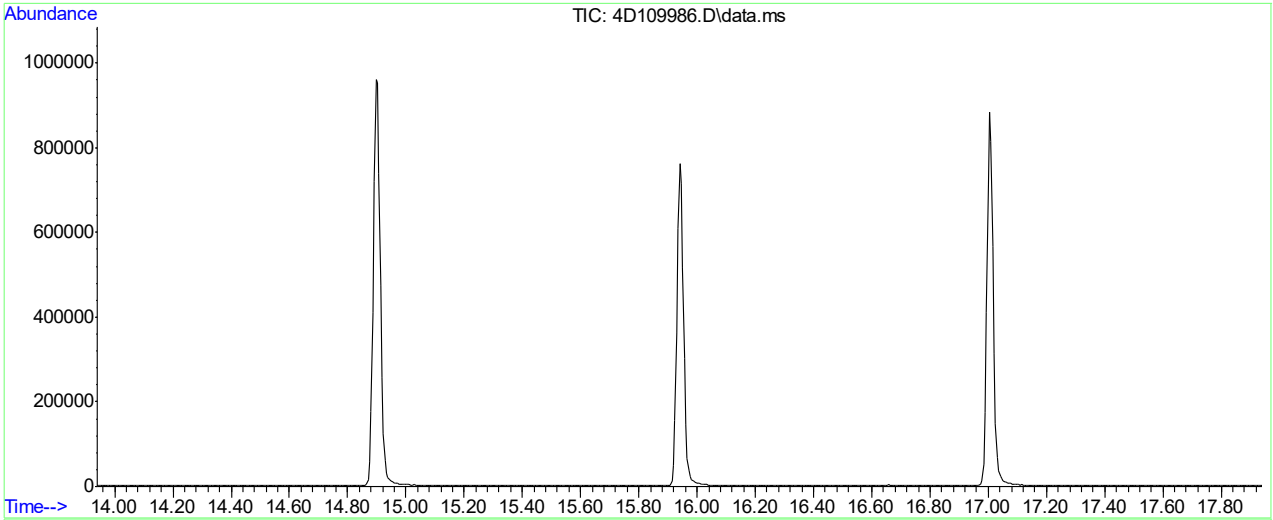
Average of 8.359 to 8.380 min.: 3c168620.d\data.ms
bfb

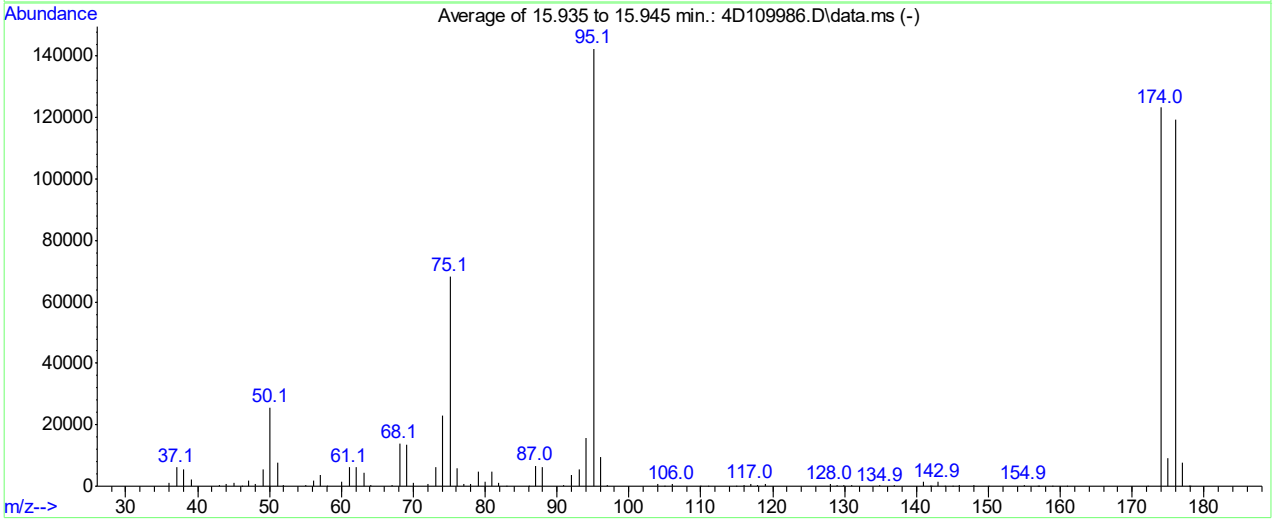
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.00	99244.8	142.85	665				
96.00	6496.4	147.80	63				
103.85	331.8	154.90	85				
105.90	303.4	173.90	82528				
115.90	134	174.90	6126.6				
116.85	448.4	175.90	80560				
117.90	147	176.90	5352.6				
118.90	323.6						
127.90	279.6						
129.85	230.4						
140.85	709.6						

SW-846 Method 8260

Data File : C:\msdchem\1\data\V4D4892\4D109986.D Vial: 1
Acq On : 19 May 2021 8:05 pm Operator: EddieH
Sample : BFB Inst : MS4D
Misc : MS50838,V4D4892,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M4D4892.M (RTE Integrator)
Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um





AutoFind: Scans 2193, 2194, 2195; Background Corrected with Scan 2185

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.0	25640	PASS
75	95	30	60	48.0	68392	PASS
95	95	100	100	100.0	142525	PASS
96	95	5	9	6.7	9499	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	86.5	123269	PASS
175	174	5	9	7.5	9306	PASS
176	174	95	101	96.8	119307	PASS
177	176	5	9	6.5	7773	PASS

4D109986.D M4D4892.M Fri May 21 16:31:44 2021

Average of 15.935 to 15.945 min.: 4D109986.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	1232	50.10	25640	64.05	395	78.00	662
37.10	6351	51.10	7712	67.10	448	79.00	4586
38.10	5628	52.00	342	68.10	13879	80.00	1304
39.10	2119	55.05	265	69.10	13608	81.00	4595
43.10	208	56.10	2016	70.05	1104	81.90	945
44.05	828	57.10	3597	72.05	725	83.00	63
45.10	1243	58.05	139	73.10	6194	86.10	55
46.10	51	60.00	1356	74.10	23104	87.00	6625
47.10	1888	61.10	6214	75.10	68392	88.00	6316
48.10	761	62.10	6108	76.10	5779	90.95	529
49.10	5635	63.10	4562	77.00	837	92.05	3660

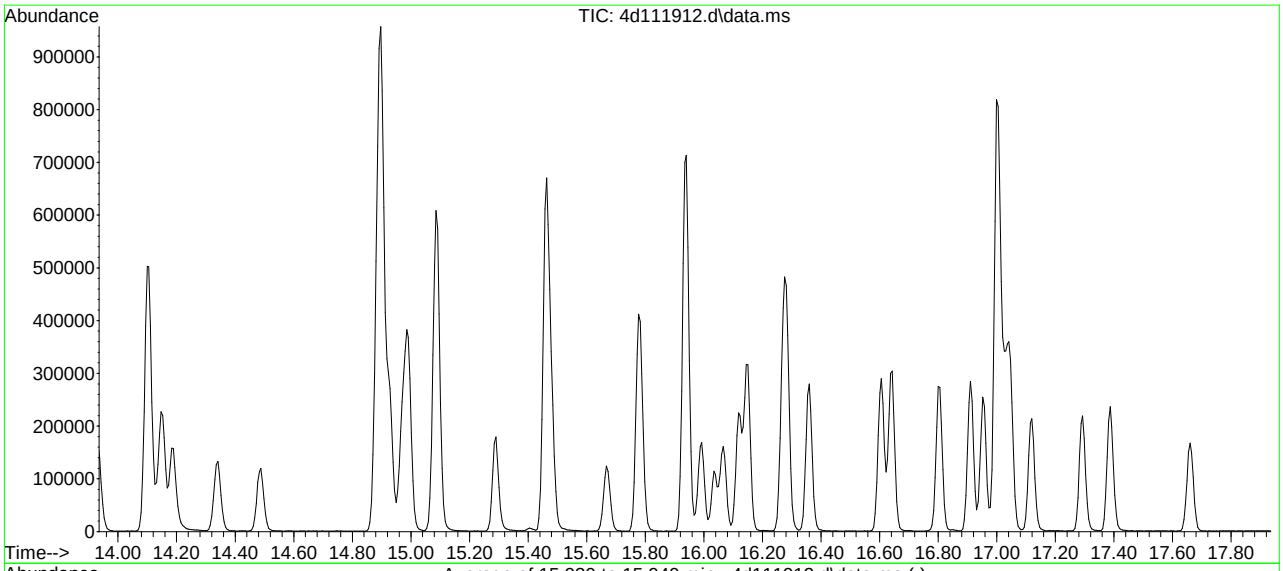
Average of 15.935 to 15.945 min.: 4D109986.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.10	5423	115.95	447	141.90	119	158.90	50
94.10	15749	116.95	859	142.10	53	160.95	131
95.10	142525	117.95	539	142.95	1360	172.20	62
96.10	9499	119.00	734	143.90	55	174.00	123269
97.05	306	127.95	565	145.00	70	175.00	9306
103.95	577	128.95	240	146.00	230	176.00	119307
105.00	157	129.95	532	147.95	393	177.00	7773
106.00	626	131.00	207	149.95	127	177.90	81
110.00	54	134.95	255	154.95	375	178.05	139
111.00	51	136.95	264	156.80	76		
114.95	117	140.95	1307	157.00	172		

SW-846 Method 8260

Data File : C:\msdchem\1\data\da...21\v4d4985\4d111912.d Vial: 4
Acq On : 19 Aug 2021 10:18 am Operator: jons2
Sample : bfb Inst : MS4D
Misc : MS53003,V4D4985,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M4D4892.M (RTE Integrator)
Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um



AutoFind: Scans 2192, 2193, 2194; Background Corrected with Scan 2184

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.3	25493	PASS
75	95	30	60	54.3	65080	PASS
95	95	100	100	100.0	119835	PASS
96	95	5	9	6.9	8251	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	90.3	108245	PASS
175	174	5	9	8.7	9406	PASS
176	174	95	101	98.0	106029	PASS
177	176	5	9	6.9	7319	PASS

4d111912.d M4D4892.M Thu Aug 19 17:32:34 2021

Average of 15.930 to 15.940 min.: 4d111912.d\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	1169	52.05	298	68.10	13815	79.95	1786
37.10	6629	55.00	389	69.05	13174	81.00	5922
38.10	5910	56.05	2366	70.05	1207	81.95	1242
39.10	2120	57.10	3621	72.10	776	85.90	94
44.00	732	58.10	111	73.05	5713	86.10	99
45.05	1107	60.05	1297	74.10	23176	87.00	5013
47.05	1353	61.05	7002	75.10	65080	88.00	4350
48.05	922	62.10	6567	76.05	5629	91.00	619
49.10	5399	63.10	5020	76.95	667	92.05	4012
50.10	25493	64.05	452	78.05	624	93.05	5560
51.10	7753	67.10	288	79.00	5377	94.10	15728

Average of 15.930 to 15.940 min.: 4d111912.d\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.10	119835	115.95	608	136.90	268	152.90	62
96.10	8251	116.95	992	140.15	139	154.90	197
96.95	253	117.95	637	141.00	1750	155.10	160
103.95	757	118.95	896	141.90	92	156.95	152
105.05	204	123.80	54	142.10	136	158.95	247
105.95	829	127.95	603	142.95	1672	160.85	141
106.90	71	128.95	255	145.00	192	171.00	253
109.85	139	129.95	547	145.90	193	171.70	243
110.95	144	131.05	170	147.80	255	172.15	379
112.95	144	134.90	228	148.00	203	174.00	108245
114.95	177	136.00	52	149.95	199	175.05	9406

Average of 15.930 to 15.940 min.: 4d111912.d\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
176.00	106029						
177.00	7319						
177.95	166						

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179465.D
Acq On : 15 Jul 2021 7:34 pm
Operator : PrashanS
Sample : IC7827-0.2
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 16 19:59:57 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:22:42 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	7.243	65	75993	500.00	ug/L		0.00
5) pentafluorobenzene	9.482	168	199376	50.00	ug/L		0.00
51) 1,4-difluorobenzene	10.402	114	296847	50.00	ug/L		0.00
73) chlorobenzene-d5	13.551	117	242763	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	15.868	152	113646	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.539	113	88937	48.11	ug/L		0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 96.22%				
52) 1,2-dichloroethane-d4 (s)	9.963	65	83444	49.23	ug/L		0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 98.46%				
74) toluene-d8 (s)	12.039	98	322376	50.85	ug/L		0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 101.70%				
97) 4-bromofluorobenzene (s)	14.701	95	109490	48.84	ug/L		0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 97.68%				
Target Compounds							Qvalue
13) trichlorofluoromethane	5.705	101	436	0.16	ug/L		78
24) methyl tert butyl ether	7.604	73	606	0.16	ug/L		53
26) di-isopropyl ether	8.200	45	960	0.18	ug/L		76
28) 1,1-dichloroethane	8.237	63	439	0.16	ug/L	#	50
55) benzene	10.020	78	1151	0.19	ug/L		86
67) methylcyclohexane	10.936	83	569	0.21	ug/L	#	68
68) bromodichloromethane	11.312	83	315	0.15	ug/L		96
75) toluene	12.118	92	873	0.25	ug/L	#	73
85) n-butyl ether	13.483	57	1379	0.21	ug/L		80
86) chlorobenzene	13.577	112	756	0.20	ug/L	#	57
88) ethylbenzene	13.629	91	1576	0.24	ug/L		86
89) m,p-xylene	13.739	106	1127	0.45	ug/L		87
90) o-xylene	14.158	106	482	0.20	ug/L		87
91) styrene	14.168	104	843	0.20	ug/L		97
94) isopropylbenzene	14.487	105	1518	0.23	ug/L		93
102) n-propylbenzene	14.900	91	1939	0.25	ug/L		83
104) 4-chlorotoluene	15.151	91	1178	0.26	ug/L		80
105) 1,3,5-trimethylbenzene	15.052	105	1080	0.21	ug/L		92
107) 1,2,4-trimethylbenzene	15.444	105	1070	0.21	ug/L		88
108) sec-butylbenzene	15.606	105	1501	0.21	ug/L		99
109) 1,3-dichlorobenzene	15.810	146	556	0.18	ug/L		95
110) p-isopropyltoluene	15.727	119	1356	0.24	ug/L		93
111) 1,2,3-trimethylbenzene	15.889	105	1152	0.22	ug/L	#	46
112) 1,4-dichlorobenzene	15.894	146	636	0.21	ug/L		71
115) n-butylbenzene	16.155	92	777	0.25	ug/L	#	79
117) 1,3,5-trichlorobenzene	17.259	180	511	0.22	ug/L	#	85
119) 1,2,4-trichlorobenzene	17.834	180	392	0.20	ug/L		72
120) hexachlorobutadiene	17.918	225	220	0.19	ug/L	#	19
121) naphthalene	18.075	128	832	0.20	ug/L		71
122) 1,2,3-trichlorobenzene	18.284	180	316	0.18	ug/L	#	65

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179465.D
Acq On : 15 Jul 2021 7:34 pm
Operator : PrashanS
Sample : IC7827-0.2
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 16 19:59:57 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:22:42 2021
Response via : Initial Calibration

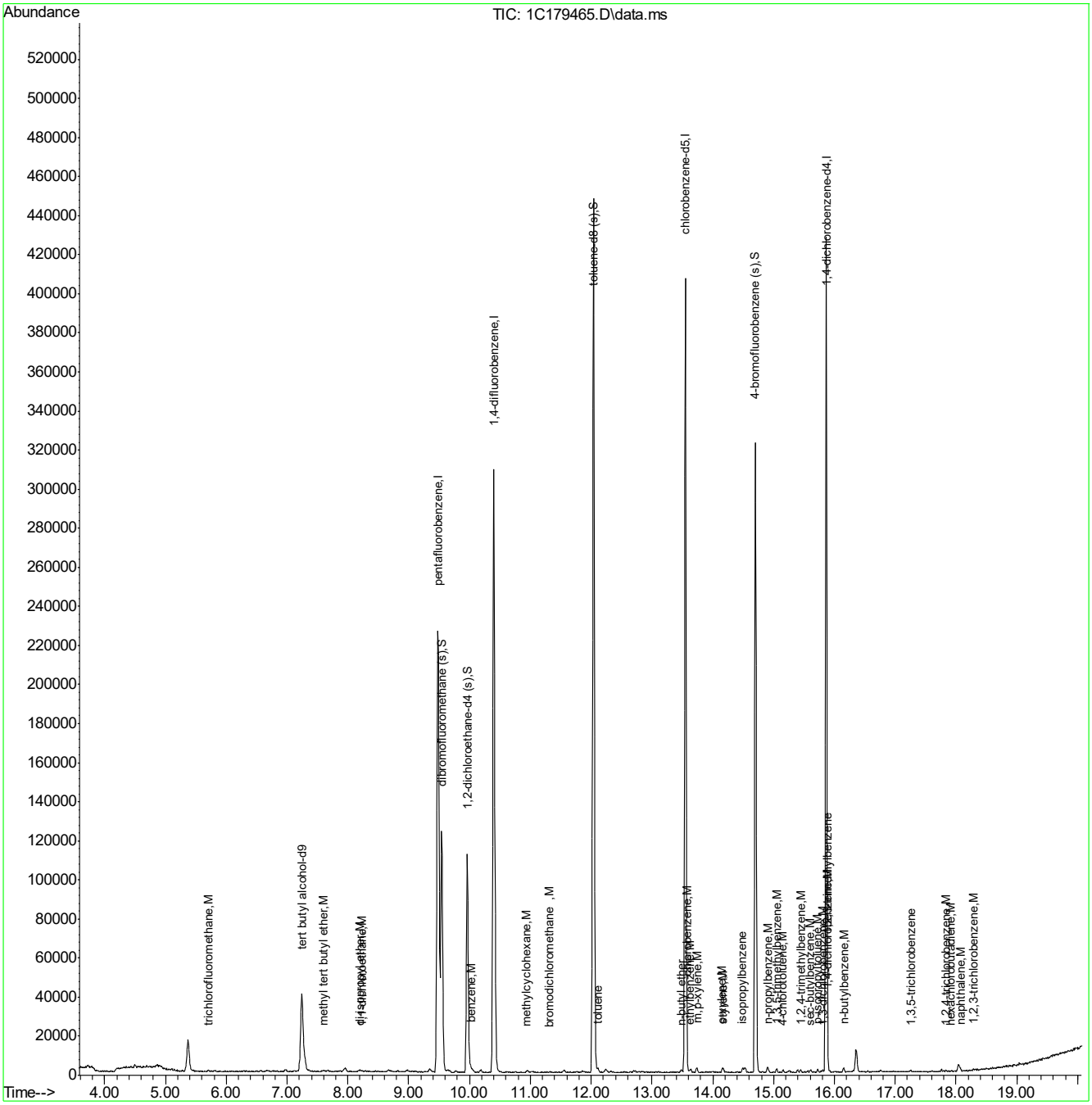
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179465.D
Acq On : 15 Jul 2021 7:34 pm
Operator : PrashanS
Sample : IC7827-0.2
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 16 19:59:57 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:22:42 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179466.D
Acq On : 15 Jul 2021 8:01 pm
Operator : PrashanS
Sample : IC7827-0.5
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 16 20:02:25 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:22:42 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	7.243	65	76987	500.00	ug/L		0.00
5) pentafluorobenzene	9.482	168	204811	50.00	ug/L		0.00
51) 1,4-difluorobenzene	10.402	114	301252	50.00	ug/L		0.00
73) chlorobenzene-d5	13.551	117	249551	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	15.868	152	118924	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.545	113	92204	48.56	ug/L		0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 97.12%				
52) 1,2-dichloroethane-d4 (s)	9.963	65	86494	50.28	ug/L		0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 100.56%				
74) toluene-d8 (s)	12.039	98	333875	51.23	ug/L		0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 102.46%				
97) 4-bromofluorobenzene (s)	14.702	95	114391	48.76	ug/L		0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 97.52%				
Target Compounds							Qvalue
6) dichlorodifluoromethane	3.797	85	1480	0.55	ug/L		89
7) chlorodifluoromethane	3.828	51	867	0.48	ug/L		69
8) chloromethane	4.205	50	1741	0.65	ug/L		89
9) vinyl chloride	4.429	62	1311	0.53	ug/L		94
10) 1,3-butadiene	4.497	54	835	0.52	ug/L		90
13) trichlorofluoromethane	5.706	101	1374	0.49	ug/L		90
17) 1,1-dichloroethene	6.574	96	959	0.68	ug/L	#	58
21) carbon disulfide	6.966	76	3215	0.65	ug/L		97
24) methyl tert butyl ether	7.599	73	1845	0.47	ug/L		63
25) trans-1,2-dichloroethene	7.672	96	1010	0.63	ug/L		87
26) di-isopropyl ether	8.200	45	2642	0.48	ug/L		92
28) 1,1-dichloroethane	8.242	63	1364	0.47	ug/L		87
29) chloroprene	8.342	53	1098	0.46	ug/L		85
33) ethyl tert-butyl ether	8.650	59	2168	0.43	ug/L		96
35) 2,2-dichloropropane	8.969	77	1344	0.57	ug/L		75
45) 1,1,1-trichloroethane	9.576	97	1257	0.52	ug/L	#	73
46) cyclohexane	9.644	84	1272	0.54	ug/L	#	76
47) 1,1-dichloropropene	9.764	75	986	0.44	ug/L	#	67
49) carbon tetrachloride	9.780	117	1110	0.51	ug/L	#	89
54) 2,2,4-trimethylpentane	10.005	57	3870	0.59	ug/L		90
55) benzene	10.031	78	3401	0.56	ug/L		88
57) heptane	10.172	71	777	0.54	ug/L		79
59) 1,2-dichloroethane	10.062	62	947	0.54	ug/L		95
60) trichloroethene	10.753	130	831	0.49	ug/L	#	87
63) 2-chloroethyl vinyl ether	11.548	63	2074	2.25	ug/L		97
65) 1,2-dichloropropane	11.014	63	708	0.44	ug/L	#	49
66) dibromomethane	11.187	93	418	0.45	ug/L		100
67) methylcyclohexane	10.946	83	1387	0.49	ug/L		81
68) bromodichloromethane	11.307	83	1044	0.50	ug/L		81
70) cis-1,3-dichloropropene	11.762	75	1248	0.48	ug/L		84
71) 4-methyl-2-pentanone	11.856	58	915	1.71	ug/L		95
72) 3-methyl-1-butanol	11.893	55	644	9.75	ug/L		80

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179466.D
Acq On : 15 Jul 2021 8:01 pm
Operator : PrashanS
Sample : IC7827-0.5
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 16 20:02:25 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:22:42 2021
Response via : Initial Calibration

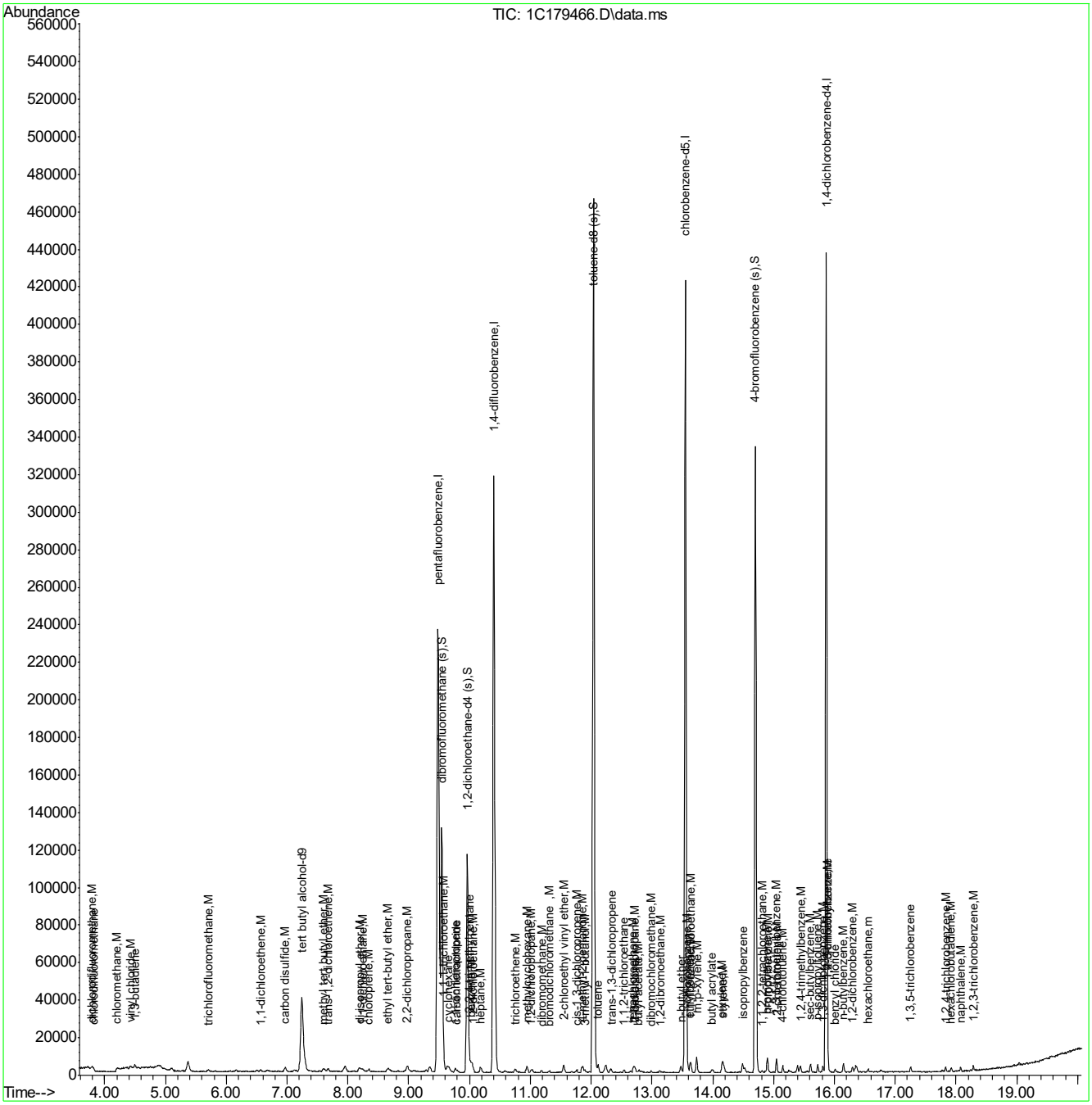
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) toluene	12.113	92	2037	0.56	ug/L		90
76) trans-1,3-dichloropropene	12.332	75	871	0.40	ug/L		92
78) 1,1,2-trichloroethane	12.542	83	442	0.39	ug/L	#	86
79) tetrachloroethene	12.688	164	640	0.48	ug/L		95
80) 1,3-dichloropropane	12.719	76	898	0.44	ug/L	#	66
81) 2-hexanone	12.714	58	852	1.67	ug/L	#	69
82) butyl acetate	12.772	56	431	0.50	ug/L	#	3
83) dibromochloromethane	12.981	129	659	0.41	ug/L		79
84) 1,2-dibromoethane	13.133	107	499	0.37	ug/L		96
85) n-butyl ether	13.483	57	3500	0.53	ug/L		90
86) chlorobenzene	13.582	112	2011	0.51	ug/L		96
87) 1,1,1,2-tetrachloroethane	13.640	131	776	0.53	ug/L		90
88) ethylbenzene	13.629	91	3873	0.57	ug/L		93
89) m,p-xylene	13.739	106	2631	1.03	ug/L		99
90) o-xylene	14.152	106	1321	0.53	ug/L		83
91) styrene	14.168	104	2193	0.51	ug/L		95
93) butyl acrylate	13.990	55	1315	0.49	ug/L		71
94) isopropylbenzene	14.492	105	3419	0.51	ug/L		90
98) bromobenzene	14.895	156	782	0.45	ug/L	#	83
99) 1,1,2,2-tetrachloroethane	14.817	83	746	0.45	ug/L		89
102) n-propylbenzene	14.900	91	4343	0.53	ug/L		97
103) 2-chlorotoluene	15.052	126	777	0.49	ug/L		98
104) 4-chlorotoluene	15.146	91	2755	0.58	ug/L		91
105) 1,3,5-trimethylbenzene	15.047	105	2782	0.52	ug/L		99
107) 1,2,4-trimethylbenzene	15.444	105	2587	0.48	ug/L		95
108) sec-butylbenzene	15.606	105	3692	0.50	ug/L		98
109) 1,3-dichlorobenzene	15.810	146	1535	0.48	ug/L		93
110) p-isopropyltoluene	15.727	119	3050	0.51	ug/L		96
111) 1,2,3-trimethylbenzene	15.894	105	2811	0.51	ug/L		82
112) 1,4-dichlorobenzene	15.894	146	1714	0.55	ug/L		89
113) benzyl chloride	16.014	91	1605	0.52	ug/L		93
114) 1,2-dichlorobenzene	16.297	146	1559	0.50	ug/L		94
115) n-butylbenzene	16.145	92	1675	0.50	ug/L		95
117) 1,3,5-trichlorobenzene	17.254	180	1213	0.50	ug/L		96
119) 1,2,4-trichlorobenzene	17.835	180	1037	0.50	ug/L		86
120) hexachlorobutadiene	17.918	225	621	0.51	ug/L		88
121) naphthalene	18.075	128	1980	0.46	ug/L		90
122) 1,2,3-trichlorobenzene	18.284	180	827	0.44	ug/L		94
123) hexachloroethane	16.553	201	484	0.42	ug/L		87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179466.D
Acq On : 15 Jul 2021 8:01 pm
Operator : PrashanS
Sample : IC7827-0.5
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 16 20:02:25 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:22:42 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179467.D
Acq On : 15 Jul 2021 8:28 pm
Operator : PrashanS
Sample : IC7827-1
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 16 20:35:36 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:22:42 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	7.243	65	73628	500.00	ug/L		0.00
5) pentafluorobenzene	9.482	168	209917	50.00	ug/L		0.00
51) 1,4-difluorobenzene	10.402	114	308974	50.00	ug/L		0.00
73) chlorobenzene-d5	13.551	117	255890	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	15.868	152	122570	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.545	113	94865	48.74	ug/L		0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 97.48%				
52) 1,2-dichloroethane-d4 (s)	9.963	65	89103	50.51	ug/L		0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 101.02%				
74) toluene-d8 (s)	12.039	98	343434	51.40	ug/L		0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 102.80%				
97) 4-bromofluorobenzene (s)	14.702	95	117723	48.68	ug/L		0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 97.36%				
Target Compounds							Qvalue
6) dichlorodifluoromethane	3.786	85	2715	0.99	ug/L		90
7) chlorodifluoromethane	3.828	51	1890	1.02	ug/L		91
8) chloromethane	4.194	50	3104	1.14	ug/L		88
9) vinyl chloride	4.429	62	2615	1.04	ug/L		87
10) 1,3-butadiene	4.503	54	1769	1.07	ug/L		92
11) bromomethane	5.099	94	1924	1.34	ug/L		84
12) chloroethane	5.277	64	1320	1.04	ug/L		66
13) trichlorofluoromethane	5.700	101	2964	1.04	ug/L		95
16) freon 113	6.511	151	1207	0.90	ug/L		94
17) 1,1-dichloroethene	6.569	96	1589	1.09	ug/L		96
21) carbon disulfide	6.966	76	5406	1.07	ug/L		98
24) methyl tert butyl ether	7.599	73	3563	0.89	ug/L		100
25) trans-1,2-dichloroethene	7.667	96	1739	1.05	ug/L		91
26) di-isopropyl ether	8.195	45	5051	0.90	ug/L		94
28) 1,1-dichloroethane	8.242	63	2851	0.96	ug/L		94
29) chloroprene	8.342	53	2221	0.92	ug/L		93
31) hexane	7.949	57	2981	1.08	ug/L		87
33) ethyl tert-butyl ether	8.650	59	4403	0.85	ug/L		95
35) 2,2-dichloropropane	8.959	77	2295	0.95	ug/L		87
36) cis-1,2-dichloroethene	8.980	96	1957	1.08	ug/L		88
38) propionitrile	9.074	54	1733	8.45	ug/L		72
39) bromochloromethane	9.293	128	730	0.88	ug/L		97
41) chloroform	9.346	85	2227	1.15	ug/L		99
45) 1,1,1-trichloroethane	9.581	97	2411	0.97	ug/L		89
46) cyclohexane	9.644	84	2493	1.04	ug/L	#	85
47) 1,1-dichloropropene	9.769	75	2107	0.91	ug/L		97
49) carbon tetrachloride	9.775	117	2028	0.91	ug/L		97
53) n-butyl alcohol	10.570	56	1540	34.20	ug/L	#	71
54) 2,2,4-trimethylpentane	10.005	57	7066	1.04	ug/L		90
55) benzene	10.031	78	6256	1.01	ug/L		97
56) tert-amyl methyl ether	10.052	87	787	0.77	ug/L	#	33
57) heptane	10.188	71	1456	0.99	ug/L		91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179467.D
Acq On : 15 Jul 2021 8:28 pm
Operator : PrashanS
Sample : IC7827-1
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 16 20:35:36 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:22:42 2021
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
59)	1,2-dichloroethane	10.057	62	1840	1.02	ug/L		92
60)	trichloroethene	10.748	130	1491	0.86	ug/L		96
63)	2-chloroethyl vinyl ether	11.543	63	4173	4.42	ug/L		93
65)	1,2-dichloropropane	11.025	63	1513	0.91	ug/L		90
66)	dibromomethane	11.176	93	887	0.94	ug/L		82
67)	methylcyclohexane	10.946	83	2846	0.99	ug/L		93
68)	bromodichloromethane	11.307	83	2131	0.99	ug/L		91
70)	cis-1,3-dichloropropene	11.762	75	2313	0.87	ug/L		93
71)	4-methyl-2-pentanone	11.856	58	1913	3.49	ug/L		96
72)	3-methyl-1-butanol	11.882	55	1342	19.82	ug/L		93
75)	toluene	12.113	92	3740	1.00	ug/L		99
76)	trans-1,3-dichloropropene	12.327	75	1899	0.85	ug/L		90
77)	ethyl methacrylate	12.306	69	1475	0.82	ug/L		90
78)	1,1,2-trichloroethane	12.536	83	1099	0.96	ug/L		93
79)	tetrachloroethene	12.698	164	1315	0.96	ug/L		90
80)	1,3-dichloropropane	12.725	76	1908	0.92	ug/L		97
81)	2-hexanone	12.714	58	1849	3.54	ug/L		97
82)	butyl acetate	12.777	56	810	0.92	ug/L	#	65
83)	dibromochloromethane	12.981	129	1469	0.90	ug/L		92
84)	1,2-dibromoethane	13.132	107	1202	0.87	ug/L		96
85)	n-butyl ether	13.478	57	6732	0.99	ug/L		99
86)	chlorobenzene	13.582	112	3992	0.99	ug/L		95
87)	1,1,1,2-tetrachloroethane	13.640	131	1493	0.99	ug/L		92
88)	ethylbenzene	13.629	91	7081	1.01	ug/L		98
89)	m,p-xylene	13.734	106	5096	1.95	ug/L		96
90)	o-xylene	14.152	106	2489	0.98	ug/L		100
91)	styrene	14.168	104	4257	0.96	ug/L		91
92)	bromoform	14.440	173	1015	0.90	ug/L		84
93)	butyl acrylate	13.980	55	2769	1.00	ug/L		89
94)	isopropylbenzene	14.492	105	6866	0.99	ug/L		98
98)	bromobenzene	14.900	156	1669	0.92	ug/L		85
99)	1,1,2,2-tetrachloroethane	14.811	83	1497	0.88	ug/L		86
100)	trans-1,4-dichloro-2-b...	14.858	53	403	0.93	ug/L	#	76
101)	1,2,3-trichloropropane	14.885	110	314	0.81	ug/L		80
102)	n-propylbenzene	14.900	91	8328	0.99	ug/L		98
103)	2-chlorotoluene	15.047	126	1529	0.93	ug/L		87
104)	4-chlorotoluene	15.151	91	4924	1.01	ug/L		96
105)	1,3,5-trimethylbenzene	15.047	105	5225	0.95	ug/L		93
106)	tert-butylbenzene	15.397	134	916	0.87	ug/L	#	63
107)	1,2,4-trimethylbenzene	15.444	105	5560	0.99	ug/L		99
108)	sec-butylbenzene	15.612	105	7282	0.96	ug/L		97
109)	1,3-dichlorobenzene	15.810	146	3271	0.98	ug/L		91
110)	p-isopropyltoluene	15.727	119	5843	0.95	ug/L		93
111)	1,2,3-trimethylbenzene	15.889	105	5483	0.97	ug/L		80
112)	1,4-dichlorobenzene	15.894	146	3272	1.02	ug/L		97
113)	benzyl chloride	16.014	91	3043	0.96	ug/L		94
114)	1,2-dichlorobenzene	16.292	146	3055	0.96	ug/L		93
115)	n-butylbenzene	16.150	92	3261	0.95	ug/L		91
117)	1,3,5-trichlorobenzene	17.254	180	2399	0.95	ug/L		93
119)	1,2,4-trichlorobenzene	17.829	180	1902	0.90	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179467.D
Acq On : 15 Jul 2021 8:28 pm
Operator : PrashanS
Sample : IC7827-1
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 16 20:35:36 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:22:42 2021
Response via : Initial Calibration

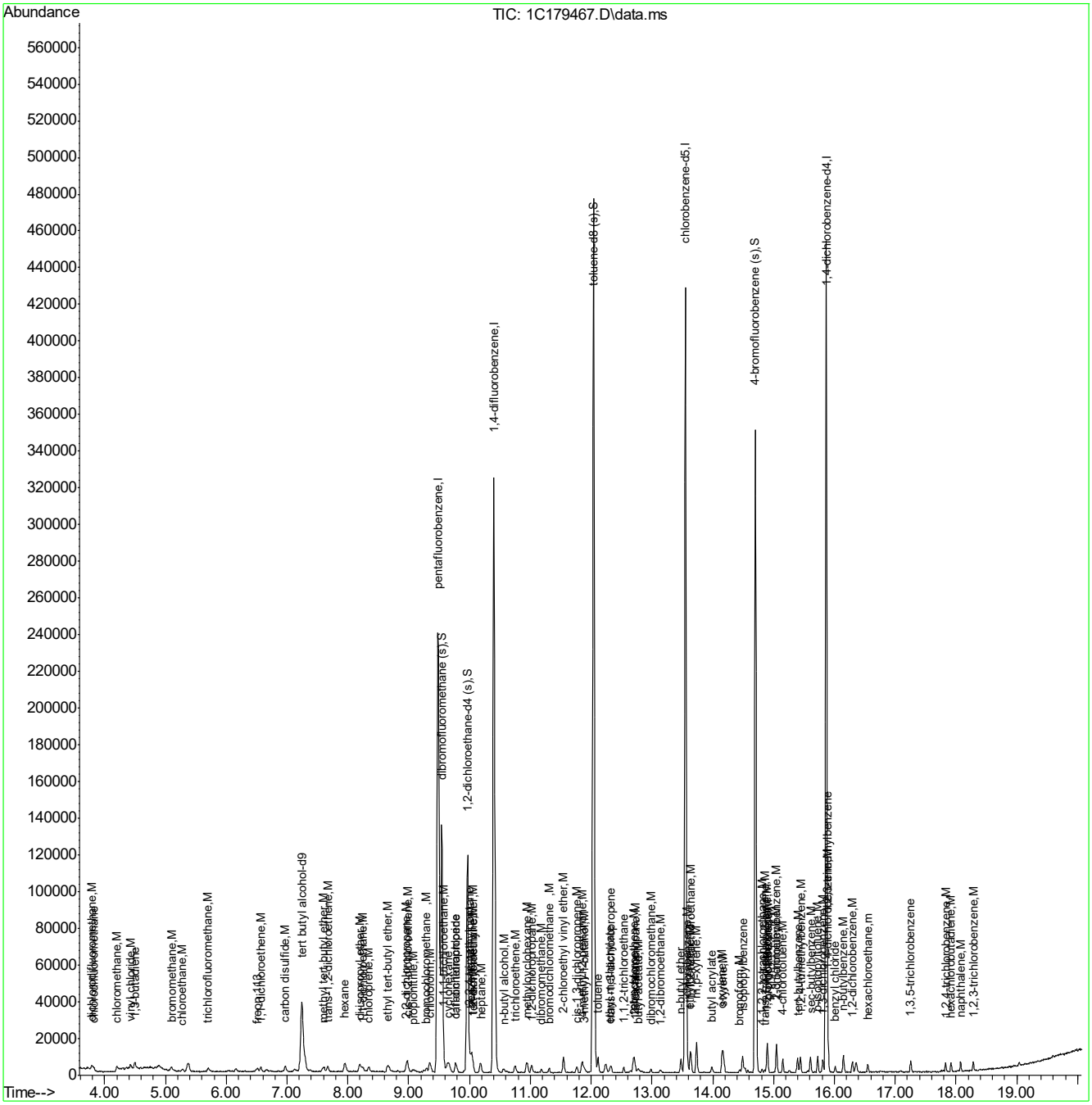
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
120) hexachlorobutadiene	17.918	225	1173	0.93	ug/L	98
121) naphthalene	18.075	128	3936	0.89	ug/L	92
122) 1,2,3-trichlorobenzene	18.284	180	1784	0.93	ug/L	96
123) hexachloroethane	16.553	201	925	0.79	ug/L	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179467.D
Acq On : 15 Jul 2021 8:28 pm
Operator : PrashanS
Sample : IC7827-1
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 16 20:35:36 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:22:42 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179468.D
Acq On : 15 Jul 2021 8:56 pm
Operator : PrashanS
Sample : IC7827-2
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 16 20:36:59 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:22:42 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	7.243	65	76893	500.00	ug/L		0.00
5) pentafluorobenzene	9.482	168	211928	50.00	ug/L		0.00
51) 1,4-difluorobenzene	10.402	114	314481	50.00	ug/L		0.00
73) chlorobenzene-d5	13.551	117	261844	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	15.868	152	124428	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.545	113	96620	49.17	ug/L		0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 98.34%				
52) 1,2-dichloroethane-d4 (s)	9.963	65	91137	50.75	ug/L		0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 101.50%				
74) toluene-d8 (s)	12.039	98	347185	50.78	ug/L		0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 101.56%				
97) 4-bromofluorobenzene (s)	14.702	95	119165	48.54	ug/L		0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 97.08%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	7.358	59	1946	10.85	ug/L		59
3) ethanol	6.030	45	3342	178.53	ug/L		96
4) 1,4-dioxane	11.135	88	713	40.40	ug/L		89
6) dichlorodifluoromethane	3.791	85	5635	2.04	ug/L		94
7) chlorodifluoromethane	3.833	51	4001	2.14	ug/L		97
8) chloromethane	4.204	50	6170	2.24	ug/L		95
9) vinyl chloride	4.429	62	5057	1.99	ug/L		97
10) 1,3-butadiene	4.497	54	3624	2.17	ug/L		96
11) bromomethane	5.099	94	3764	2.59	ug/L		95
12) chloroethane	5.271	64	2559	1.99	ug/L		99
13) trichlorofluoromethane	5.706	101	5820	2.02	ug/L		97
14) ethyl ether	6.155	74	1307	1.62	ug/L		96
16) freon 113	6.501	151	2643	1.95	ug/L	#	80
17) 1,1-dichloroethene	6.563	96	3230	2.20	ug/L		97
18) acetone	6.657	43	4701	11.02	ug/L		97
21) carbon disulfide	6.971	76	11160	2.18	ug/L		97
22) methylene chloride	7.301	84	4009	2.37	ug/L		93
24) methyl tert butyl ether	7.599	73	7813	1.93	ug/L		100
25) trans-1,2-dichloroethene	7.667	96	3912	2.35	ug/L		98
26) di-isopropyl ether	8.195	45	11252	1.98	ug/L		94
27) 2-butanone	8.959	72	989	5.73	ug/L	#	88
28) 1,1-dichloroethane	8.237	63	6298	2.11	ug/L		92
29) chloroprene	8.342	53	4891	2.00	ug/L		97
31) hexane	7.944	57	6021	2.16	ug/L		93
33) ethyl tert-butyl ether	8.661	59	9953	1.90	ug/L		97
35) 2,2-dichloropropane	8.959	77	5172	2.11	ug/L		99
36) cis-1,2-dichloroethene	8.980	96	3940	2.16	ug/L		90
38) propionitrile	9.069	54	3931	18.98	ug/L		86
39) bromochloromethane	9.294	128	1731	2.07	ug/L		94
41) chloroform	9.346	85	4394	2.24	ug/L		89
42) t-butyl formate	9.356	59	2270	1.73	ug/L		94
44) methacrylonitrile	9.246	67	1007	1.70	ug/L		85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179468.D
Acq On : 15 Jul 2021 8:56 pm
Operator : PrashanS
Sample : IC7827-2
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 16 20:36:59 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:22:42 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) 1,1,1-trichloroethane	9.581	97	5303	2.11	ug/L		91
46) cyclohexane	9.644	84	4909	2.02	ug/L		93
47) 1,1-dichloropropene	9.764	75	4490	1.93	ug/L		92
49) carbon tetrachloride	9.780	117	4559	2.02	ug/L		99
53) n-butyl alcohol	10.554	56	4190	91.42	ug/L		93
54) 2,2,4-trimethylpentane	10.000	57	15089	2.19	ug/L		93
55) benzene	10.026	78	13445	2.12	ug/L		99
56) tert-amyl methyl ether	10.052	87	2170	2.09	ug/L	#	59
57) heptane	10.183	71	3361	2.25	ug/L		96
59) 1,2-dichloroethane	10.052	62	4173	2.27	ug/L		93
60) trichloroethene	10.742	130	3652	2.08	ug/L		99
61) ethyl acrylate	10.763	55	3779	2.06	ug/L		93
63) 2-chloroethyl vinyl ether	11.543	63	9135	9.51	ug/L		98
64) methyl methacrylate	11.014	100	512	1.50	ug/L	#	82
65) 1,2-dichloropropane	11.019	63	3267	1.93	ug/L		92
66) dibromomethane	11.182	93	1974	2.06	ug/L		99
67) methylcyclohexane	10.946	83	6110	2.09	ug/L		98
68) bromodichloromethane	11.307	83	4564	2.09	ug/L		95
69) epichlorohydrin	11.679	57	1600	10.87	ug/L		98
70) cis-1,3-dichloropropene	11.757	75	5193	1.91	ug/L		90
71) 4-methyl-2-pentanone	11.851	58	4526	8.12	ug/L		94
72) 3-methyl-1-butanol	11.882	55	2783	40.37	ug/L		93
75) toluene	12.113	92	8374	2.19	ug/L		96
76) trans-1,3-dichloropropene	12.322	75	4360	1.92	ug/L		97
77) ethyl methacrylate	12.306	69	3609	1.95	ug/L		98
78) 1,1,2-trichloroethane	12.536	83	2341	1.99	ug/L		93
79) tetrachloroethene	12.693	164	2923	2.08	ug/L		95
80) 1,3-dichloropropane	12.719	76	4299	2.02	ug/L		95
81) 2-hexanone	12.704	58	4251	7.95	ug/L		99
82) butyl acetate	12.772	56	2057	2.29	ug/L		90
83) dibromochloromethane	12.986	129	3298	1.98	ug/L		92
84) 1,2-dibromoethane	13.133	107	2673	1.89	ug/L		100
85) n-butyl ether	13.478	57	14490	2.08	ug/L		98
86) chlorobenzene	13.577	112	8535	2.06	ug/L		87
87) 1,1,1,2-tetrachloroethane	13.640	131	2947	1.91	ug/L		90
88) ethylbenzene	13.629	91	15582	2.18	ug/L		99
89) m,p-xylene	13.734	106	11380	4.26	ug/L		99
90) o-xylene	14.152	106	5508	2.12	ug/L		94
91) styrene	14.168	104	9337	2.07	ug/L		97
92) bromoform	14.445	173	2163	1.88	ug/L		93
93) butyl acrylate	13.985	55	5708	2.01	ug/L		96
94) isopropylbenzene	14.487	105	14437	2.04	ug/L		99
98) bromobenzene	14.895	156	3869	2.11	ug/L		91
99) 1,1,2,2-tetrachloroethane	14.817	83	3461	2.00	ug/L		94
100) trans-1,4-dichloro-2-b...	14.853	53	863	1.97	ug/L		84
101) 1,2,3-trichloropropane	14.885	110	740	1.87	ug/L		93
102) n-propylbenzene	14.895	91	18325	2.16	ug/L		100
103) 2-chlorotoluene	15.052	126	3460	2.07	ug/L		94
104) 4-chlorotoluene	15.151	91	10853	2.19	ug/L		99
105) 1,3,5-trimethylbenzene	15.047	105	11866	2.12	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179468.D
Acq On : 15 Jul 2021 8:56 pm
Operator : PrashanS
Sample : IC7827-2
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 16 20:36:59 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:22:42 2021
Response via : Initial Calibration

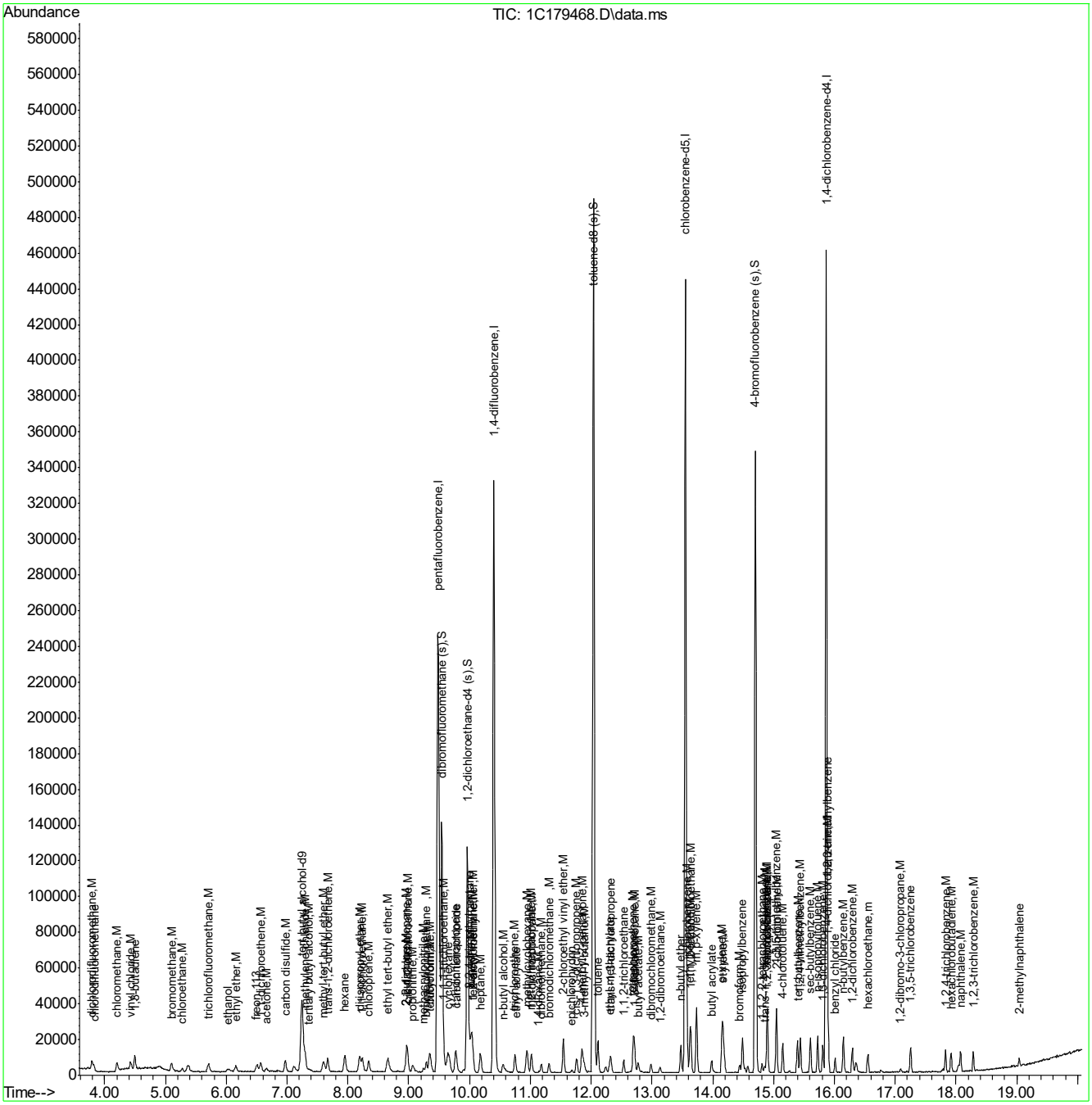
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
106) tert-butylbenzene	15.397	134	2250	2.10	ug/L	#	72
107) 1,2,4-trimethylbenzene	15.439	105	12031	2.12	ug/L		98
108) sec-butylbenzene	15.606	105	15595	2.02	ug/L		99
109) 1,3-dichlorobenzene	15.810	146	7024	2.08	ug/L		96
110) p-isopropyltoluene	15.727	119	13023	2.08	ug/L		98
111) 1,2,3-trimethylbenzene	15.889	105	12103	2.11	ug/L		93
112) 1,4-dichlorobenzene	15.894	146	7053	2.16	ug/L		94
113) benzyl chloride	16.014	91	6555	2.05	ug/L		94
114) 1,2-dichlorobenzene	16.297	146	6522	2.01	ug/L		95
115) n-butylbenzene	16.145	92	6900	1.99	ug/L		96
116) 1,2-dibromo-3-chloropr...	17.087	75	524	1.67	ug/L		99
117) 1,3,5-trichlorobenzene	17.254	180	4937	1.93	ug/L		97
119) 1,2,4-trichlorobenzene	17.829	180	4093	1.90	ug/L		96
120) hexachlorobutadiene	17.923	225	2577	2.01	ug/L		96
121) naphthalene	18.075	128	8562	1.91	ug/L		98
122) 1,2,3-trichlorobenzene	18.284	180	3753	1.93	ug/L		91
123) hexachloroethane	16.553	201	2164	1.81	ug/L		97
124) 2-methylnaphthalene	19.037	142	2292	0.82	ug/L		89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179468.D
Acq On : 15 Jul 2021 8:56 pm
Operator : PrashanS
Sample : IC7827-2
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 16 20:36:59 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:22:42 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179469.D
Acq On : 15 Jul 2021 9:23 pm
Operator : PrashanS
Sample : IC7827-4
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 16 20:39:00 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:34:12 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	7.243	65	74710	500.00	ug/L		0.00
5) pentafluorobenzene	9.482	168	206636	50.00	ug/L		0.00
51) 1,4-difluorobenzene	10.402	114	305943	50.00	ug/L		0.00
73) chlorobenzene-d5	13.551	117	253319	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	15.868	152	119582	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.545	113	93317	49.43	ug/L		0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 98.86%				
52) 1,2-dichloroethane-d4 (s)	9.963	65	88473	50.37	ug/L		0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 100.74%				
74) toluene-d8 (s)	12.039	98	337061	50.45	ug/L		0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 100.90%				
97) 4-bromofluorobenzene (s)	14.702	95	114943	49.35	ug/L		0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 98.70%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	7.364	59	3667	20.20	ug/L		88
3) ethanol	6.014	45	7181	405.19	ug/L		99
4) 1,4-dioxane	11.140	88	1556	92.70	ug/L		97
6) dichlorodifluoromethane	3.791	85	10082	3.63	ug/L		95
7) chlorodifluoromethane	3.828	51	7332	3.92	ug/L		100
8) chloromethane	4.199	50	11058	3.80	ug/L		99
9) vinyl chloride	4.424	62	9522	3.83	ug/L		99
10) 1,3-butadiene	4.497	54	6824	4.07	ug/L		95
11) bromomethane	5.094	94	6883	4.21	ug/L		93
12) chloroethane	5.277	64	4972	3.86	ug/L		95
13) trichlorofluoromethane	5.706	101	10932	3.95	ug/L		95
14) ethyl ether	6.150	74	2937	3.89	ug/L		84
16) freon 113	6.501	151	4999	3.85	ug/L		95
17) 1,1-dichloroethene	6.569	96	6095	3.97	ug/L		96
18) acetone	6.652	43	8821	18.04	ug/L		99
19) acetonitrile	7.102	41	8778	44.88	ug/L		93
20) iodomethane	6.856	142	2504	4.89	ug/L		96
21) carbon disulfide	6.966	76	21132	3.97	ug/L		98
22) methylene chloride	7.296	84	7255	4.17	ug/L		92
23) methyl acetate	7.113	43	4914	4.26	ug/L		94
24) methyl tert butyl ether	7.599	73	15032	4.01	ug/L		89
25) trans-1,2-dichloroethene	7.667	96	6873	3.96	ug/L		99
26) di-isopropyl ether	8.190	45	21611	4.01	ug/L		95
27) 2-butanone	8.959	72	2320	14.67	ug/L	#	79
28) 1,1-dichloroethane	8.237	63	11921	4.17	ug/L		96
29) chloroprene	8.336	53	9327	3.99	ug/L		97
30) acrylonitrile	7.656	53	1618	3.29	ug/L		86
31) hexane	7.949	57	10860	3.92	ug/L		94
33) ethyl tert-butyl ether	8.655	59	19086	3.94	ug/L		99
34) ethyl acetate	8.964	45	960	4.23	ug/L	#	18
35) 2,2-dichloropropane	8.959	77	9822	4.11	ug/L		99
36) cis-1,2-dichloroethene	8.974	96	7532	4.08	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179469.D
Acq On : 15 Jul 2021 9:23 pm
Operator : PrashanS
Sample : IC7827-4
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 16 20:39:00 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:34:12 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) methyl acrylate	9.042	85	537	2.69	ug/L	#	15
38) propionitrile	9.069	54	8221	41.66	ug/L		95
39) bromochloromethane	9.288	128	3388	4.15	ug/L		94
40) tetrahydrofuran	9.335	42	2421	4.69	ug/L		98
41) chloroform	9.341	85	8176	4.08	ug/L		91
42) t-butyl formate	9.362	59	4182	3.51	ug/L		87
44) methacrylonitrile	9.246	67	2228	3.95	ug/L		88
45) 1,1,1-trichloroethane	9.581	97	9892	3.96	ug/L		95
46) cyclohexane	9.639	84	9432	3.91	ug/L		91
47) 1,1-dichloropropene	9.764	75	9144	4.12	ug/L		94
48) iso-butyl alcohol	9.790	43	3281	47.02	ug/L		83
49) carbon tetrachloride	9.780	117	8651	3.94	ug/L		99
50) tert amyl alcohol	9.895	55	1264	21.98	ug/L	#	54
53) n-butyl alcohol	10.544	56	7985	190.88	ug/L		92
54) 2,2,4-trimethylpentane	10.000	57	27575	3.94	ug/L		97
55) benzene	10.026	78	25423	4.03	ug/L		98
56) tert-amyl methyl ether	10.047	87	3817	3.87	ug/L	#	89
57) heptane	10.183	71	6011	3.91	ug/L		93
58) isopropyl acetate	9.942	87	899	3.21	ug/L	#	62
59) 1,2-dichloroethane	10.057	62	7715	4.15	ug/L		93
60) trichloroethene	10.748	130	7011	4.10	ug/L		98
61) ethyl acrylate	10.753	55	6998	3.93	ug/L		92
63) 2-chloroethyl vinyl ether	11.537	63	17913	19.80	ug/L		98
64) methyl methacrylate	11.020	100	1145	3.67	ug/L	#	90
65) 1,2-dichloropropane	11.014	63	6818	4.23	ug/L		92
66) dibromomethane	11.182	93	3820	4.11	ug/L		99
67) methylcyclohexane	10.946	83	11380	3.97	ug/L		98
68) bromodichloromethane	11.307	83	8666	4.13	ug/L		98
69) epichlorohydrin	11.673	57	3157	21.31	ug/L		92
70) cis-1,3-dichloropropene	11.757	75	10368	4.03	ug/L		99
71) 4-methyl-2-pentanone	11.851	58	8805	16.72	ug/L		98
72) 3-methyl-1-butanol	11.872	55	5973	87.27	ug/L		98
75) toluene	12.113	92	15714	4.01	ug/L		97
76) trans-1,3-dichloropropene	12.322	75	8386	4.02	ug/L		93
77) ethyl methacrylate	12.301	69	6846	3.96	ug/L		96
78) 1,1,2-trichloroethane	12.536	83	4312	3.92	ug/L		96
79) tetrachloroethene	12.693	164	5644	4.15	ug/L		97
80) 1,3-dichloropropane	12.719	76	8395	4.17	ug/L		97
81) 2-hexanone	12.704	58	8598	17.08	ug/L		98
82) butyl acetate	12.772	56	4009	4.44	ug/L		92
83) dibromochloromethane	12.981	129	6332	4.06	ug/L		98
84) 1,2-dibromoethane	13.133	107	5116	3.96	ug/L		98
85) n-butyl ether	13.478	57	27209	3.95	ug/L		99
86) chlorobenzene	13.582	112	16304	4.03	ug/L		92
87) 1,1,1,2-tetrachloroethane	13.640	131	5930	3.96	ug/L		95
88) ethylbenzene	13.629	91	29204	4.01	ug/L		99
89) m,p-xylene	13.734	106	21832	8.18	ug/L		97
90) o-xylene	14.152	106	10364	4.03	ug/L		97
91) styrene	14.168	104	17944	4.07	ug/L		94
92) bromoform	14.440	173	4267	3.90	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179469.D
Acq On : 15 Jul 2021 9:23 pm
Operator : PrashanS
Sample : IC7827-4
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 16 20:39:00 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:34:12 2021
Response via : Initial Calibration

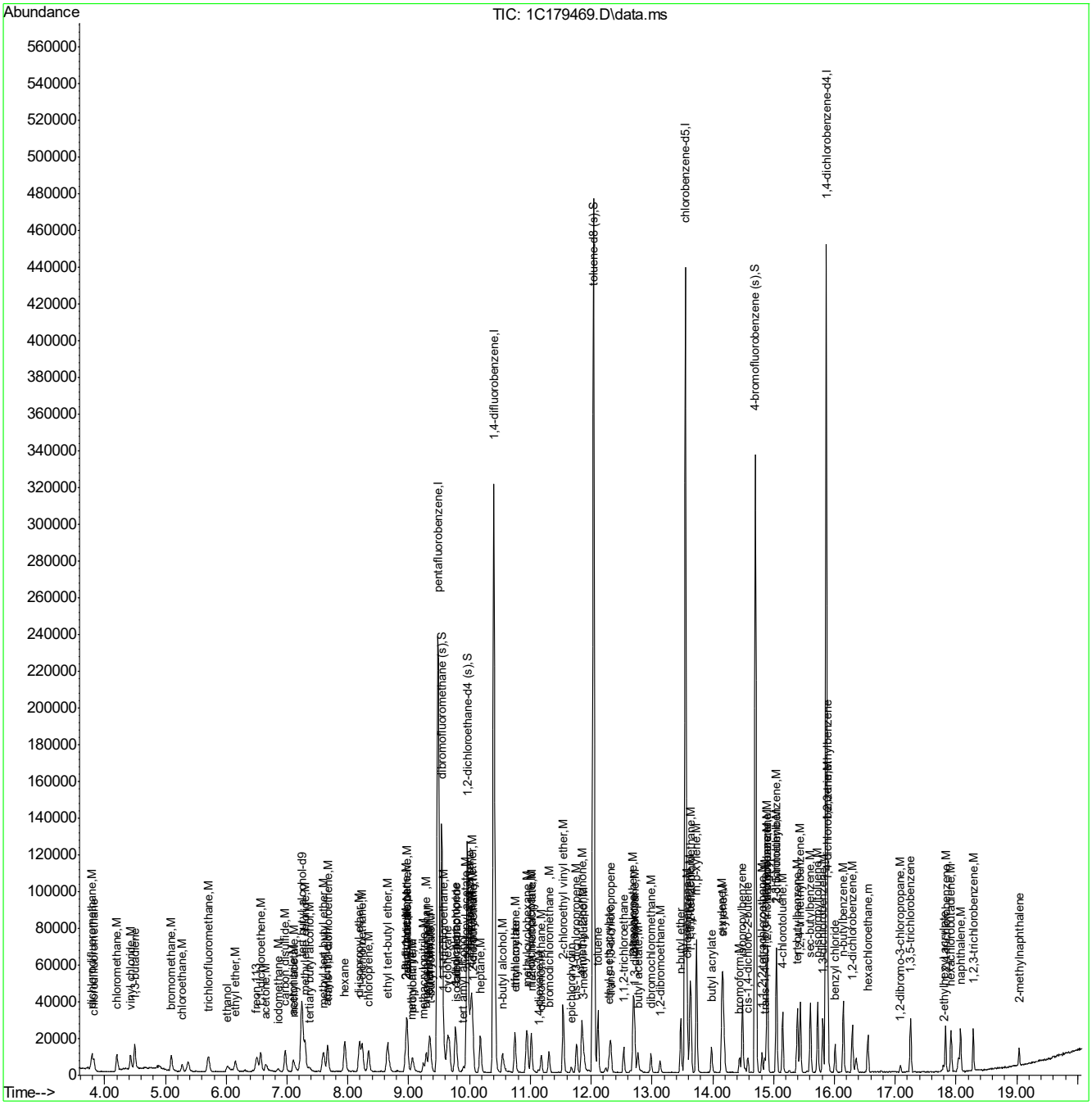
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93) butyl acrylate	13.980	55	10772	3.96	ug/L		98
94) isopropylbenzene	14.487	105	27664	3.96	ug/L		98
95) cis-1,4-dichloro-2-butene	14.576	88	1988	3.73	ug/L		92
98) bromobenzene	14.895	156	7309	4.18	ug/L		95
99) 1,1,2,2-tetrachloroethane	14.811	83	6588	4.04	ug/L		94
100) trans-1,4-dichloro-2-b...	14.853	53	1526	3.69	ug/L		82
101) 1,2,3-trichloropropane	14.885	110	1532	4.13	ug/L		95
102) n-propylbenzene	14.895	91	34078	3.99	ug/L		99
103) 2-chlorotoluene	15.047	126	6551	4.07	ug/L		92
104) 4-chlorotoluene	15.151	91	19916	3.91	ug/L		100
105) 1,3,5-trimethylbenzene	15.047	105	22045	4.04	ug/L		98
106) tert-butylbenzene	15.392	134	4049	4.04	ug/L	#	89
107) 1,2,4-trimethylbenzene	15.439	105	22173	4.04	ug/L		99
108) sec-butylbenzene	15.606	105	29984	4.02	ug/L		97
109) 1,3-dichlorobenzene	15.810	146	13010	4.05	ug/L		99
110) p-isopropyltoluene	15.727	119	24249	3.94	ug/L		99
111) 1,2,3-trimethylbenzene	15.889	105	22621	4.02	ug/L		97
112) 1,4-dichlorobenzene	15.894	146	13266	4.08	ug/L		98
113) benzyl chloride	16.014	91	12245	4.03	ug/L		98
114) 1,2-dichlorobenzene	16.297	146	12168	3.90	ug/L		100
115) n-butylbenzene	16.150	92	13089	3.88	ug/L		94
116) 1,2-dibromo-3-chloropr...	17.087	75	1078	3.70	ug/L		95
117) 1,3,5-trichlorobenzene	17.254	180	9824	4.02	ug/L		95
118) 2-ethylhexyl acrylate	17.798	70	1077	0.74	ug/L	#	82
119) 1,2,4-trichlorobenzene	17.829	180	8170	4.05	ug/L		93
120) hexachlorobutadiene	17.918	225	4793	3.97	ug/L		94
121) naphthalene	18.075	128	16810	4.02	ug/L		98
122) 1,2,3-trichlorobenzene	18.284	180	7153	3.99	ug/L		97
123) hexachloroethane	16.553	201	4135	3.84	ug/L		95
124) 2-methylnaphthalene	19.037	142	4625	1.84	ug/L		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179469.D
Acq On : 15 Jul 2021 9:23 pm
Operator : PrashanS
Sample : IC7827-4
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 16 20:39:00 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:34:12 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179470.D
Acq On : 15 Jul 2021 9:50 pm
Operator : PrashanS
Sample : IC7827-8
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 16 20:40:16 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:34:12 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	7.238	65	75272	500.00	ug/L		-0.01
5) pentafluorobenzene	9.482	168	207669	50.00	ug/L		0.00
51) 1,4-difluorobenzene	10.402	114	308940	50.00	ug/L		0.00
73) chlorobenzene-d5	13.551	117	258549	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	15.868	152	121018	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.544	113	94275	49.69	ug/L		0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 99.38%				
52) 1,2-dichloroethane-d4 (s)	9.963	65	90099	50.80	ug/L		0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 101.60%				
74) toluene-d8 (s)	12.039	98	339748	49.82	ug/L		0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 99.64%				
97) 4-bromofluorobenzene (s)	14.701	95	117231	49.74	ug/L		0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 99.48%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	7.363	59	7343	40.14	ug/L		87
3) ethanol	6.014	45	14373	804.94	ug/L		97
4) 1,4-dioxane	11.134	88	3340	197.49	ug/L		83
6) dichlorodifluoromethane	3.791	85	21779	7.80	ug/L		97
7) chlorodifluoromethane	3.822	51	14846	7.89	ug/L		100
8) chloromethane	4.199	50	23562	8.06	ug/L		98
9) vinyl chloride	4.429	62	20131	8.05	ug/L		99
10) 1,3-butadiene	4.497	54	13713	8.14	ug/L		98
11) bromomethane	5.093	94	13146	8.01	ug/L		97
12) chloroethane	5.277	64	10316	7.96	ug/L		95
13) trichlorofluoromethane	5.705	101	22759	8.17	ug/L		99
14) ethyl ether	6.150	74	5977	7.88	ug/L		92
15) acrolein	6.427	56	1958	7.47	ug/L		91
16) freon 113	6.506	151	10754	8.23	ug/L		99
17) 1,1-dichloroethene	6.563	96	11984	7.77	ug/L		96
18) acetone	6.642	43	17204	35.01	ug/L		97
19) acetonitrile	7.097	41	16240	82.61	ug/L		90
20) iodomethane	6.856	142	7186	7.15	ug/L		96
21) carbon disulfide	6.966	76	41775	7.80	ug/L		99
22) methylene chloride	7.301	84	14143	8.08	ug/L		94
23) methyl acetate	7.102	43	8983	7.75	ug/L		98
24) methyl tert butyl ether	7.599	73	30607	8.12	ug/L		99
25) trans-1,2-dichloroethene	7.667	96	13739	7.87	ug/L		97
26) di-isopropyl ether	8.190	45	43309	8.01	ug/L		96
27) 2-butanone	8.948	72	5262	33.12	ug/L		90
28) 1,1-dichloroethane	8.237	63	24540	8.53	ug/L		99
29) chloroprene	8.336	53	19052	8.10	ug/L		98
30) acrylonitrile	7.656	53	3726	7.53	ug/L		95
31) hexane	7.949	57	21798	7.82	ug/L		97
32) vinyl acetate	8.226	86	1571	6.59	ug/L	#	41
33) ethyl tert-butyl ether	8.655	59	38849	7.98	ug/L		98
34) ethyl acetate	8.969	45	1748	7.66	ug/L	#	1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179470.D
Acq On : 15 Jul 2021 9:50 pm
Operator : PrashanS
Sample : IC7827-8
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 16 20:40:16 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:34:12 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,2-dichloropropane	8.964	77	20015	8.33	ug/L		97
36) cis-1,2-dichloroethene	8.974	96	15052	8.12	ug/L		96
37) methyl acrylate	9.053	85	1633	8.13	ug/L	#	83
38) propionitrile	9.058	54	16380	82.60	ug/L		91
39) bromochloromethane	9.288	128	6674	8.14	ug/L		97
40) tetrahydrofuran	9.335	42	4313	8.31	ug/L		97
41) chloroform	9.340	85	16214	8.05	ug/L		97
42) t-butyl formate	9.361	59	9156	7.65	ug/L		92
44) methacrylonitrile	9.236	67	4476	7.90	ug/L		94
45) 1,1,1-trichloroethane	9.576	97	20287	8.09	ug/L		96
46) cyclohexane	9.644	84	19258	7.95	ug/L		96
47) 1,1-dichloropropene	9.764	75	18343	8.22	ug/L		96
48) iso-butyl alcohol	9.785	43	5816	82.93	ug/L		93
49) carbon tetrachloride	9.785	117	18195	8.25	ug/L		98
50) tert amyl alcohol	9.900	55	2477	42.86	ug/L	#	77
53) n-butyl alcohol	10.538	56	17803	421.46	ug/L		98
54) 2,2,4-trimethylpentane	9.999	57	57458	8.13	ug/L		99
55) benzene	10.026	78	52967	8.32	ug/L		98
56) tert-amyl methyl ether	10.041	87	8454	8.50	ug/L		92
57) heptane	10.177	71	12717	8.19	ug/L		98
58) isopropyl acetate	9.947	87	2267	8.03	ug/L	#	81
59) 1,2-dichloroethane	10.052	62	15453	8.23	ug/L		98
60) trichloroethene	10.742	130	14391	8.34	ug/L		98
61) ethyl acrylate	10.747	55	14246	7.93	ug/L		99
63) 2-chloroethyl vinyl ether	11.537	63	37022	40.53	ug/L		98
64) methyl methacrylate	11.009	100	2539	8.06	ug/L		95
65) 1,2-dichloropropane	11.014	63	13568	8.33	ug/L		98
66) dibromomethane	11.176	93	7686	8.18	ug/L		94
67) methylcyclohexane	10.941	83	23450	8.10	ug/L		98
68) bromodichloromethane	11.307	83	17531	8.27	ug/L		99
69) epichlorohydrin	11.678	57	5903	39.45	ug/L		98
70) cis-1,3-dichloropropene	11.762	75	21148	8.13	ug/L		98
71) 4-methyl-2-pentanone	11.846	58	17719	33.33	ug/L		98
72) 3-methyl-1-butanol	11.872	55	11556	167.20	ug/L		98
75) toluene	12.112	92	31571	7.89	ug/L		99
76) trans-1,3-dichloropropene	12.322	75	17466	8.20	ug/L		97
77) ethyl methacrylate	12.301	69	14382	8.14	ug/L		96
78) 1,1,2-trichloroethane	12.536	83	9166	8.16	ug/L		96
79) tetrachloroethene	12.693	164	11365	8.19	ug/L		96
80) 1,3-dichloropropane	12.719	76	16725	8.14	ug/L		97
81) 2-hexanone	12.698	58	17444	33.95	ug/L		99
82) butyl acetate	12.766	56	7866	8.53	ug/L		96
83) dibromochloromethane	12.981	129	12706	7.98	ug/L		98
84) 1,2-dibromoethane	13.132	107	10857	8.22	ug/L		99
85) n-butyl ether	13.478	57	56060	7.98	ug/L		99
86) chlorobenzene	13.582	112	33768	8.19	ug/L		97
87) 1,1,1,2-tetrachloroethane	13.640	131	12145	7.95	ug/L		98
88) ethylbenzene	13.629	91	59049	7.94	ug/L		99
89) m,p-xylene	13.734	106	44367	16.29	ug/L		99
90) o-xylene	14.152	106	20974	7.99	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179470.D
Acq On : 15 Jul 2021 9:50 pm
Operator : PrashanS
Sample : IC7827-8
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 16 20:40:16 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:34:12 2021
Response via : Initial Calibration

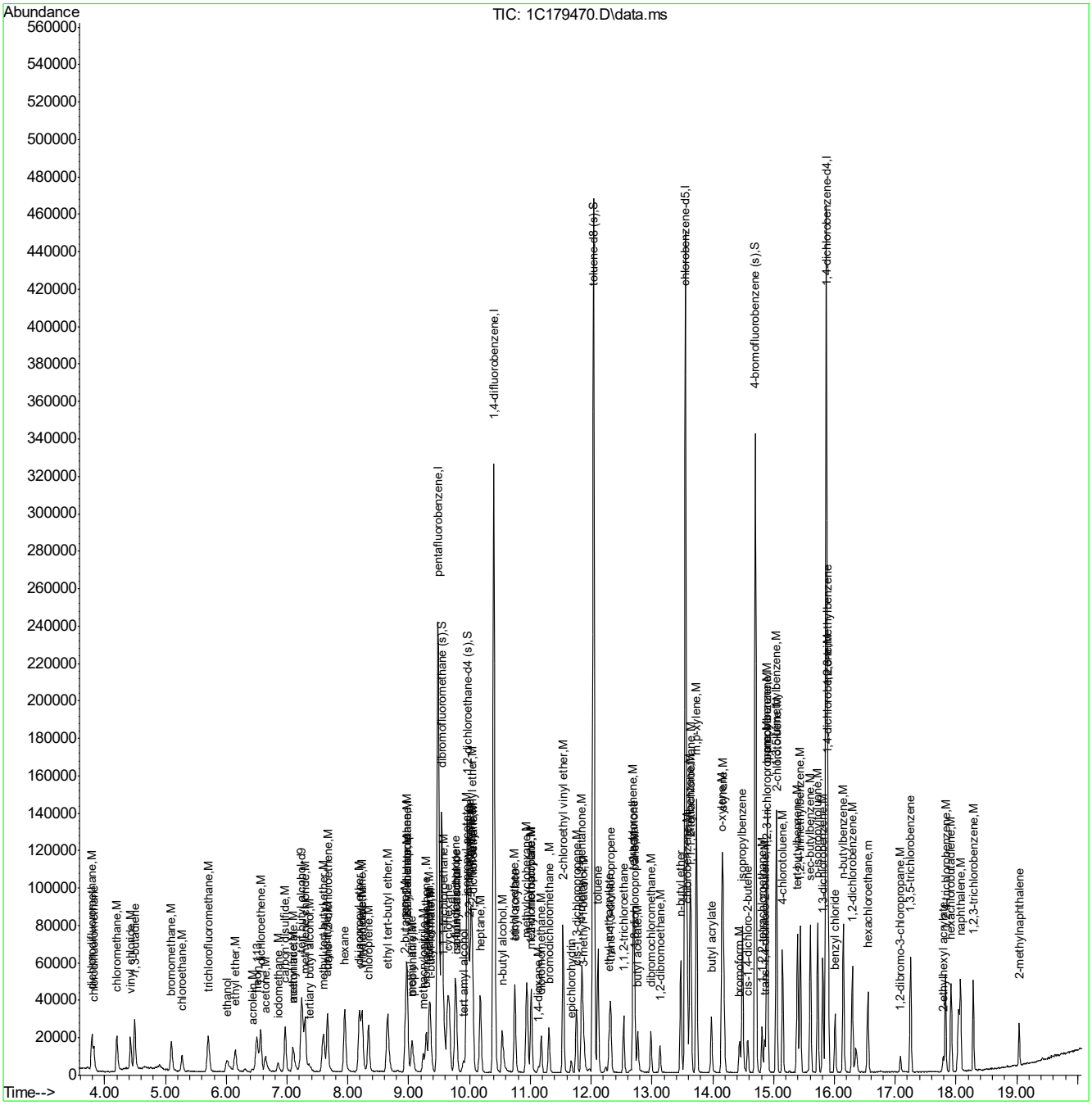
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) styrene	14.163	104	36576	8.13	ug/L	99
92) bromoform	14.440	173	8596	7.71	ug/L	97
93) butyl acrylate	13.980	55	21628	7.79	ug/L	96
94) isopropylbenzene	14.487	105	57096	8.00	ug/L	99
95) cis-1,4-dichloro-2-butene	14.576	88	4204	7.73	ug/L	96
98) bromobenzene	14.895	156	14396	8.14	ug/L	97
99) 1,1,2,2-tetrachloroethane	14.811	83	13448	8.15	ug/L	97
100) trans-1,4-dichloro-2-b...	14.853	53	3795	9.06	ug/L	91
101) 1,2,3-trichloropropane	14.884	110	3214	8.56	ug/L	89
102) n-propylbenzene	14.895	91	68435	7.92	ug/L	97
103) 2-chlorotoluene	15.052	126	13267	8.15	ug/L	93
104) 4-chlorotoluene	15.146	91	40271	7.82	ug/L	98
105) 1,3,5-trimethylbenzene	15.047	105	44086	7.99	ug/L	98
106) tert-butylbenzene	15.392	134	8406	8.29	ug/L	98
107) 1,2,4-trimethylbenzene	15.439	105	45395	8.16	ug/L	100
108) sec-butylbenzene	15.606	105	61119	8.09	ug/L	99
109) 1,3-dichlorobenzene	15.810	146	26968	8.29	ug/L	100
110) p-isopropyltoluene	15.727	119	50262	8.07	ug/L	98
111) 1,2,3-trimethylbenzene	15.889	105	45879	8.06	ug/L	98
112) 1,4-dichlorobenzene	15.894	146	26828	8.15	ug/L	97
113) benzyl chloride	16.014	91	24667	8.02	ug/L	99
114) 1,2-dichlorobenzene	16.297	146	25275	8.01	ug/L	99
115) n-butylbenzene	16.150	92	26981	7.90	ug/L	98
116) 1,2-dibromo-3-chloropr...	17.086	75	2417	8.20	ug/L	87
117) 1,3,5-trichlorobenzene	17.254	180	19588	7.91	ug/L	99
118) 2-ethylhexyl acrylate	17.792	70	2244	1.52	ug/L	92
119) 1,2,4-trichlorobenzene	17.829	180	16493	8.07	ug/L	96
120) hexachlorobutadiene	17.918	225	10390	8.51	ug/L	98
121) naphthalene	18.075	128	33658	7.95	ug/L	98
122) 1,2,3-trichlorobenzene	18.284	180	14674	8.08	ug/L	98
123) hexachloroethane	16.553	201	8710	8.00	ug/L	94
124) 2-methylnaphthalene	19.037	142	9821	3.86	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179470.D
Acq On : 15 Jul 2021 9:50 pm
Operator : PrashanS
Sample : IC7827-8
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 16 20:40:16 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:34:12 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179471.D
Acq On : 15 Jul 2021 10:17 pm
Operator : PrashanS
Sample : IC7827-20
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 20:41:22 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:34:12 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	7.238	65	75709	500.00	ug/L		-0.01
5) pentafluorobenzene	9.482	168	209883	50.00	ug/L		0.00
51) 1,4-difluorobenzene	10.402	114	315565	50.00	ug/L		0.00
73) chlorobenzene-d5	13.551	117	263816	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	15.868	152	123944	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.545	113	96405	50.28	ug/L		0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 100.56%				
52) 1,2-dichloroethane-d4 (s)	9.963	65	91125	50.30	ug/L		0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 100.60%				
74) toluene-d8 (s)	12.039	98	346835	49.84	ug/L		0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 99.68%				
97) 4-bromofluorobenzene (s)	14.702	95	120471	49.90	ug/L		0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 99.80%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	7.364	59	18393	99.97	ug/L		96
3) ethanol	6.004	45	36153	2013.02	ug/L		99
4) 1,4-dioxane	11.129	88	8891	522.68	ug/L		98
6) dichlorodifluoromethane	3.791	85	54257	19.22	ug/L		99
7) chlorodifluoromethane	3.823	51	37470	19.70	ug/L		98
8) chloromethane	4.199	50	56401	19.09	ug/L		98
9) vinyl chloride	4.424	62	49976	19.78	ug/L		100
10) 1,3-butadiene	4.497	54	34531	20.29	ug/L		96
11) bromomethane	5.099	94	30378	18.30	ug/L		100
12) chloroethane	5.277	64	25317	19.33	ug/L		98
13) trichlorofluoromethane	5.706	101	56571	20.11	ug/L		98
14) ethyl ether	6.145	74	15539	20.28	ug/L		93
15) acrolein	6.433	56	5087	19.20	ug/L		89
16) freon 113	6.506	151	27292	20.68	ug/L		98
17) 1,1-dichloroethene	6.569	96	30198	19.36	ug/L		95
18) acetone	6.642	43	35590	71.66	ug/L		100
19) acetonitrile	7.086	41	39116	196.88	ug/L		98
20) iodomethane	6.851	142	28419	17.31	ug/L		99
21) carbon disulfide	6.971	76	104892	19.39	ug/L		99
22) methylene chloride	7.296	84	34420	19.46	ug/L		98
23) methyl acetate	7.097	43	23389	19.96	ug/L		96
24) methyl tert butyl ether	7.599	73	77278	20.29	ug/L		100
25) trans-1,2-dichloroethene	7.667	96	34681	19.66	ug/L		99
26) di-isopropyl ether	8.190	45	112070	20.50	ug/L		99
27) 2-butanone	8.943	72	13141	81.83	ug/L	#	81
28) 1,1-dichloroethane	8.237	63	60763	20.90	ug/L		99
29) chloroprene	8.342	53	49783	20.95	ug/L		99
30) acrylonitrile	7.646	53	10130	20.27	ug/L		91
31) hexane	7.949	57	56097	19.92	ug/L		99
32) vinyl acetate	8.221	86	4685	19.45	ug/L	#	82
33) ethyl tert-butyl ether	8.655	59	101023	20.53	ug/L		99
34) ethyl acetate	8.959	45	4533	19.66	ug/L	#	22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179471.D
Acq On : 15 Jul 2021 10:17 pm
Operator : PrashanS
Sample : IC7827-20
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 20:41:22 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:34:12 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,2-dichloropropane	8.959	77	49637	20.45	ug/L		97
36) cis-1,2-dichloroethene	8.974	96	37335	19.92	ug/L		98
37) methyl acrylate	9.037	85	4030	19.85	ug/L		99
38) propionitrile	9.058	54	41328	206.20	ug/L		97
39) bromochloromethane	9.293	128	17190	20.74	ug/L		91
40) tetrahydrofuran	9.325	42	10236	19.51	ug/L		96
41) chloroform	9.341	85	39127	19.23	ug/L		99
42) t-butyl formate	9.361	59	25152	20.80	ug/L		97
44) methacrylonitrile	9.231	67	11525	20.14	ug/L		92
45) 1,1,1-trichloroethane	9.576	97	51449	20.29	ug/L		98
46) cyclohexane	9.644	84	48025	19.62	ug/L		90
47) 1,1-dichloropropene	9.764	75	47272	20.96	ug/L		99
48) iso-butyl alcohol	9.785	43	13132	185.26	ug/L		96
49) carbon tetrachloride	9.780	117	46111	20.68	ug/L		99
50) tert amyl alcohol	9.895	55	5503	94.21	ug/L		99
53) n-butyl alcohol	10.533	56	44657	1034.99	ug/L		97
54) 2,2,4-trimethylpentane	10.000	57	144803	20.06	ug/L		99
55) benzene	10.026	78	132576	20.38	ug/L		100
56) tert-amyl methyl ether	10.041	87	21000	20.67	ug/L		93
57) heptane	10.177	71	31201	19.67	ug/L		97
58) isopropyl acetate	9.947	87	5930	20.56	ug/L		95
59) 1,2-dichloroethane	10.057	62	38284	19.97	ug/L		98
60) trichloroethene	10.742	130	36149	20.51	ug/L		99
61) ethyl acrylate	10.747	55	36661	19.98	ug/L		98
63) 2-chloroethyl vinyl ether	11.537	63	95827	102.70	ug/L		98
64) methyl methacrylate	11.014	100	6702	20.83	ug/L	#	90
65) 1,2-dichloropropane	11.014	63	34914	20.99	ug/L		99
66) dibromomethane	11.176	93	19737	20.57	ug/L		98
67) methylcyclohexane	10.941	83	60016	20.29	ug/L		97
68) bromodichloromethane	11.307	83	44602	20.60	ug/L		97
69) epichlorohydrin	11.673	57	14904	97.52	ug/L		97
70) cis-1,3-dichloropropene	11.757	75	55004	20.71	ug/L		99
71) 4-methyl-2-pentanone	11.846	58	44572	82.08	ug/L		99
72) 3-methyl-1-butanol	11.872	55	28242	400.04	ug/L		98
75) toluene	12.113	92	79991	19.58	ug/L		98
76) trans-1,3-dichloropropene	12.322	75	44765	20.60	ug/L		99
77) ethyl methacrylate	12.301	69	36602	20.31	ug/L		97
78) 1,1,2-trichloroethane	12.536	83	23370	20.39	ug/L		99
79) tetrachloroethene	12.693	164	28824	20.37	ug/L		98
80) 1,3-dichloropropane	12.714	76	42628	20.33	ug/L		97
81) 2-hexanone	12.698	58	43110	82.23	ug/L		99
82) butyl acetate	12.766	56	18444	19.61	ug/L		94
83) dibromochloromethane	12.981	129	32924	20.27	ug/L		99
84) 1,2-dibromoethane	13.132	107	28364	21.06	ug/L		98
85) n-butyl ether	13.472	57	142528	19.88	ug/L		100
86) chlorobenzene	13.582	112	85332	20.27	ug/L		97
87) 1,1,1,2-tetrachloroethane	13.640	131	31541	20.23	ug/L		96
88) ethylbenzene	13.629	91	148776	19.62	ug/L		99
89) m,p-xylene	13.734	106	111469	40.12	ug/L		99
90) o-xylene	14.152	106	53808	20.10	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179471.D
Acq On : 15 Jul 2021 10:17 pm
Operator : PrashanS
Sample : IC7827-20
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 20:41:22 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:34:12 2021
Response via : Initial Calibration

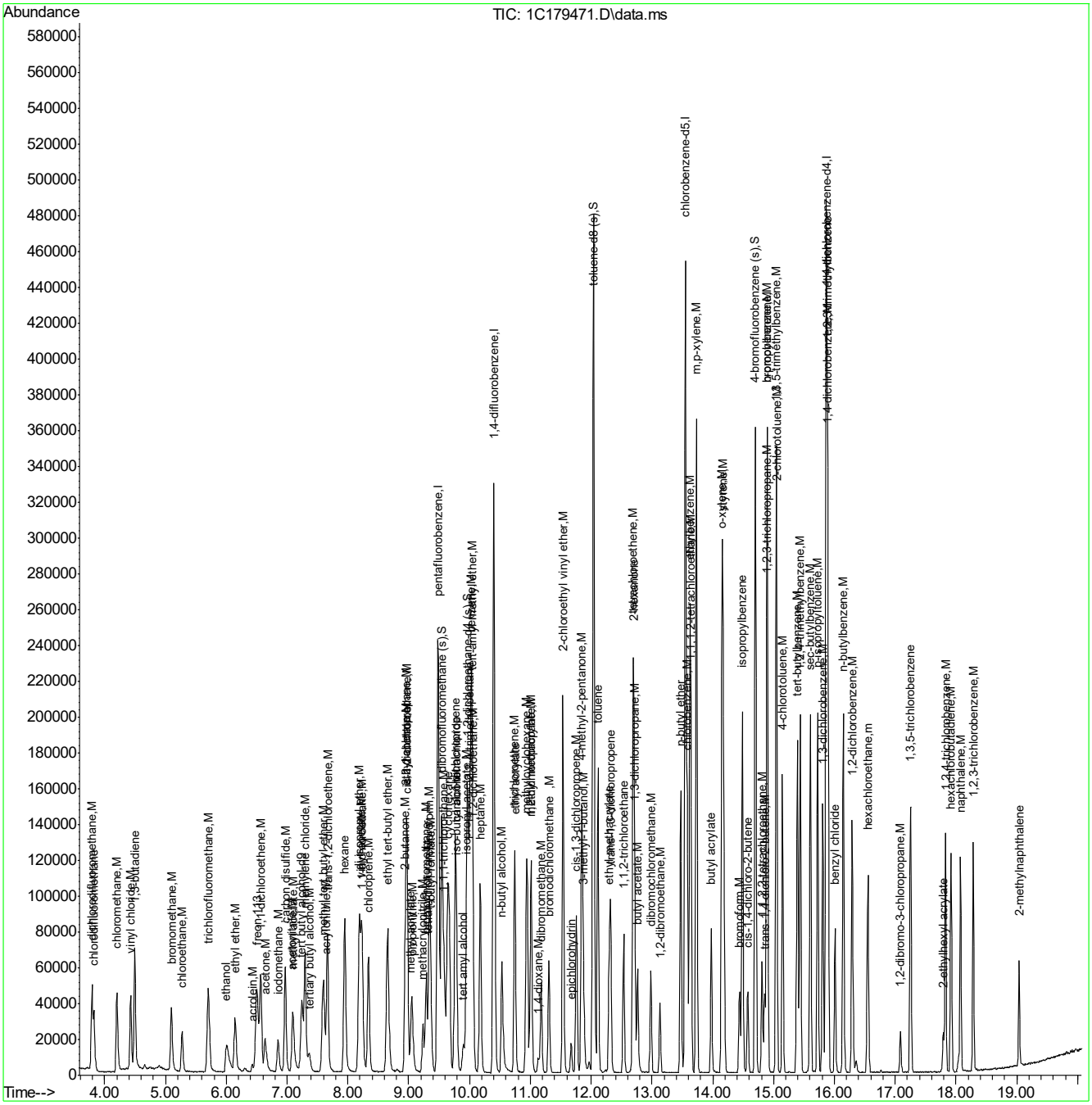
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) styrene	14.163	104	93248	20.31	ug/L	99
92) bromoform	14.440	173	22525	19.79	ug/L	95
93) butyl acrylate	13.975	55	56437	19.92	ug/L	98
94) isopropylbenzene	14.487	105	144214	19.81	ug/L	99
95) cis-1,4-dichloro-2-butene	14.576	88	11129	20.06	ug/L	96
98) bromobenzene	14.895	156	37250	20.57	ug/L	97
99) 1,1,2,2-tetrachloroethane	14.811	83	33885	20.05	ug/L	99
100) trans-1,4-dichloro-2-b...	14.853	53	9101	21.22	ug/L	96
101) 1,2,3-trichloropropane	14.885	110	7826	20.35	ug/L	97
102) n-propylbenzene	14.895	91	174773	19.74	ug/L	100
103) 2-chlorotoluene	15.052	126	34218	20.53	ug/L	93
104) 4-chlorotoluene	15.146	91	99788	18.92	ug/L	99
105) 1,3,5-trimethylbenzene	15.047	105	112782	19.95	ug/L	99
106) tert-butylbenzene	15.392	134	21276	20.48	ug/L	92
107) 1,2,4-trimethylbenzene	15.439	105	114004	20.02	ug/L	99
108) sec-butylbenzene	15.606	105	155570	20.11	ug/L	99
109) 1,3-dichlorobenzene	15.810	146	67285	20.20	ug/L	100
110) p-isopropyltoluene	15.727	119	125862	19.74	ug/L	99
111) 1,2,3-trimethylbenzene	15.889	105	115974	19.90	ug/L	99
112) 1,4-dichlorobenzene	15.894	146	65778	19.52	ug/L	98
113) benzyl chloride	16.014	91	61648	19.57	ug/L	99
114) 1,2-dichlorobenzene	16.292	146	63330	19.60	ug/L	100
115) n-butylbenzene	16.145	92	68136	19.48	ug/L	98
116) 1,2-dibromo-3-chloropr...	17.087	75	6058	20.06	ug/L	96
117) 1,3,5-trichlorobenzene	17.254	180	49706	19.60	ug/L	99
118) 2-ethylhexyl acrylate	17.793	70	6018	3.97	ug/L	96
119) 1,2,4-trichlorobenzene	17.829	180	41271	19.72	ug/L	98
120) hexachlorobutadiene	17.918	225	26213	20.97	ug/L	99
121) naphthalene	18.075	128	88787	20.48	ug/L	99
122) 1,2,3-trichlorobenzene	18.284	180	37835	20.35	ug/L	98
123) hexachloroethane	16.553	201	22991	20.61	ug/L	98
124) 2-methylnaphthalene	19.037	142	25507	9.80	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179471.D
Acq On : 15 Jul 2021 10:17 pm
Operator : PrashanS
Sample : IC7827-20
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 20:41:22 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:34:12 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179472.D
Acq On : 15 Jul 2021 10:44 pm
Operator : PrashanS
Sample : ICC7827-50
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 16 20:41:31 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:34:12 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.243	65	78572	500.00	ug/L	0.00
5) pentafluorobenzene	9.482	168	213337	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.402	114	329161	50.00	ug/L	0.00
73) chlorobenzene-d5	13.551	117	270973	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.868	152	128249	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.544	113	98896	50.74	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 101.48%			
52) 1,2-dichloroethane-d4 (s)	9.963	65	93975	49.73	ug/L	0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 99.46%			
74) toluene-d8 (s)	12.039	98	353805	49.50	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 99.00%			
97) 4-bromofluorobenzene (s)	14.701	95	126506	50.64	ug/L	0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 101.28%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.363	59	45825	239.99	ug/L	100
3) ethanol	6.004	45	95641	5131.30	ug/L	100
4) 1,4-dioxane	11.129	88	22545	1277.08	ug/L	100
6) dichlorodifluoromethane	3.791	85	138945	48.42	ug/L	100
7) chlorodifluoromethane	3.823	51	94055	48.65	ug/L	100
8) chloromethane	4.199	50	138770	46.20	ug/L	100
9) vinyl chloride	4.424	62	128190	49.90	ug/L	100
10) 1,3-butadiene	4.497	54	83964	48.54	ug/L	100
11) bromomethane	5.093	94	73176	43.38	ug/L	100
12) chloroethane	5.271	64	64690	48.58	ug/L	100
13) trichlorofluoromethane	5.705	101	144794	50.63	ug/L	100
14) ethyl ether	6.145	74	40684	52.23	ug/L	100
15) acrolein	6.422	56	14106	52.38	ug/L	100
16) freon 113	6.500	151	68058	50.73	ug/L	100
17) 1,1-dichloroethene	6.568	96	73957	46.65	ug/L	100
18) acetone	6.631	43	88170	174.66	ug/L	100
19) acetonitrile	7.086	41	97178	481.21	ug/L	100
20) iodomethane	6.851	142	97011	49.48	ug/L	100
21) carbon disulfide	6.966	76	257721	46.87	ug/L	100
22) methylene chloride	7.295	84	85034	47.31	ug/L	100
23) methyl acetate	7.091	43	59497	49.96	ug/L	100
24) methyl tert butyl ether	7.594	73	203537	52.56	ug/L	100
25) trans-1,2-dichloroethene	7.662	96	83894	46.78	ug/L	100
26) di-isopropyl ether	8.190	45	286112	51.48	ug/L	100
27) 2-butanone	8.938	72	34728	212.76	ug/L	100
28) 1,1-dichloroethane	8.237	63	150438	50.91	ug/L	100
29) chloroprene	8.336	53	123138	50.98	ug/L	100
30) acrylonitrile	7.641	53	26394	51.96	ug/L	100
31) hexane	7.949	57	140537	49.09	ug/L	100
32) vinyl acetate	8.221	86	13446	54.93	ug/L	100
33) ethyl tert-butyl ether	8.650	59	263573	52.69	ug/L	100
34) ethyl acetate	8.948	45	11832	50.49	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179472.D
Acq On : 15 Jul 2021 10:44 pm
Operator : PrashanS
Sample : ICC7827-50
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 16 20:41:31 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:34:12 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) 2,2-dichloropropane	8.959	77	123404	50.01	ug/L	100
36) cis-1,2-dichloroethene	8.974	96	91799	48.18	ug/L	100
37) methyl acrylate	9.032	85	11165	54.10	ug/L	100
38) propionitrile	9.053	54	104228	511.61	ug/L	100
39) bromochloromethane	9.288	128	42175	50.07	ug/L	100
40) tetrahydrofuran	9.325	42	25336	47.51	ug/L	100
41) chloroform	9.340	85	98762	47.74	ug/L	100
42) t-butyl formate	9.356	59	66024	53.71	ug/L	100
44) methacrylonitrile	9.231	67	29870	51.34	ug/L	100
45) 1,1,1-trichloroethane	9.576	97	126640	49.13	ug/L	100
46) cyclohexane	9.639	84	122341	49.18	ug/L	100
47) 1,1-dichloropropene	9.759	75	117098	51.08	ug/L	100
48) iso-butyl alcohol	9.780	43	33837	469.64	ug/L	100
49) carbon tetrachloride	9.780	117	113864	50.24	ug/L	100
50) tert amyl alcohol	9.895	55	13894	234.00	ug/L	100
53) n-butyl alcohol	10.533	56	120020	2666.75	ug/L	100
54) 2,2,4-trimethylpentane	9.999	57	361010	47.95	ug/L	100
55) benzene	10.026	78	331247	48.82	ug/L	100
56) tert-amyl methyl ether	10.041	87	54231	51.17	ug/L	100
57) heptane	10.177	71	78282	47.32	ug/L	100
58) isopropyl acetate	9.947	87	15823	52.59	ug/L	100
59) 1,2-dichloroethane	10.052	62	96029	48.02	ug/L	100
60) trichloroethene	10.742	130	91890	49.98	ug/L	100
61) ethyl acrylate	10.742	55	95989	50.16	ug/L	100
63) 2-chloroethyl vinyl ether	11.537	63	251312	258.22	ug/L	100
64) methyl methacrylate	11.009	100	17914	53.38	ug/L	100
65) 1,2-dichloropropane	11.014	63	88631	51.09	ug/L	100
66) dibromomethane	11.176	93	50237	50.19	ug/L	100
67) methylcyclohexane	10.941	83	153184	49.64	ug/L	100
68) bromodichloromethane	11.307	83	114318	50.62	ug/L	100
69) epichlorohydrin	11.668	57	38534	241.72	ug/L	100
70) cis-1,3-dichloropropene	11.757	75	142102	51.29	ug/L	100
71) 4-methyl-2-pentanone	11.846	58	116663	205.97	ug/L	100
72) 3-methyl-1-butanol	11.867	55	73244	994.63	ug/L	100
75) toluene	12.112	92	198299	47.26	ug/L	100
76) trans-1,3-dichloropropene	12.316	75	117688	52.73	ug/L	100
77) ethyl methacrylate	12.301	69	95596	51.64	ug/L	100
78) 1,1,2-trichloroethane	12.536	83	60783	51.63	ug/L	100
79) tetrachloroethene	12.693	164	72722	50.03	ug/L	100
80) 1,3-dichloropropane	12.714	76	109920	51.03	ug/L	100
81) 2-hexanone	12.693	58	110681	205.53	ug/L	100
82) butyl acetate	12.766	56	46567	48.21	ug/L	100
83) dibromochloromethane	12.981	129	86223	51.68	ug/L	100
84) 1,2-dibromoethane	13.132	107	73117	52.84	ug/L	100
85) n-butyl ether	13.472	57	360494	48.95	ug/L	100
86) chlorobenzene	13.582	112	214469	49.61	ug/L	100
87) 1,1,1,2-tetrachloroethane	13.640	131	79917	49.89	ug/L	100
88) ethylbenzene	13.629	91	370619	47.57	ug/L	100
89) m,p-xylene	13.734	106	276720	96.97	ug/L	100
90) o-xylene	14.152	106	134571	48.93	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179472.D
Acq On : 15 Jul 2021 10:44 pm
Operator : PrashanS
Sample : ICC7827-50
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 16 20:41:31 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:34:12 2021
Response via : Initial Calibration

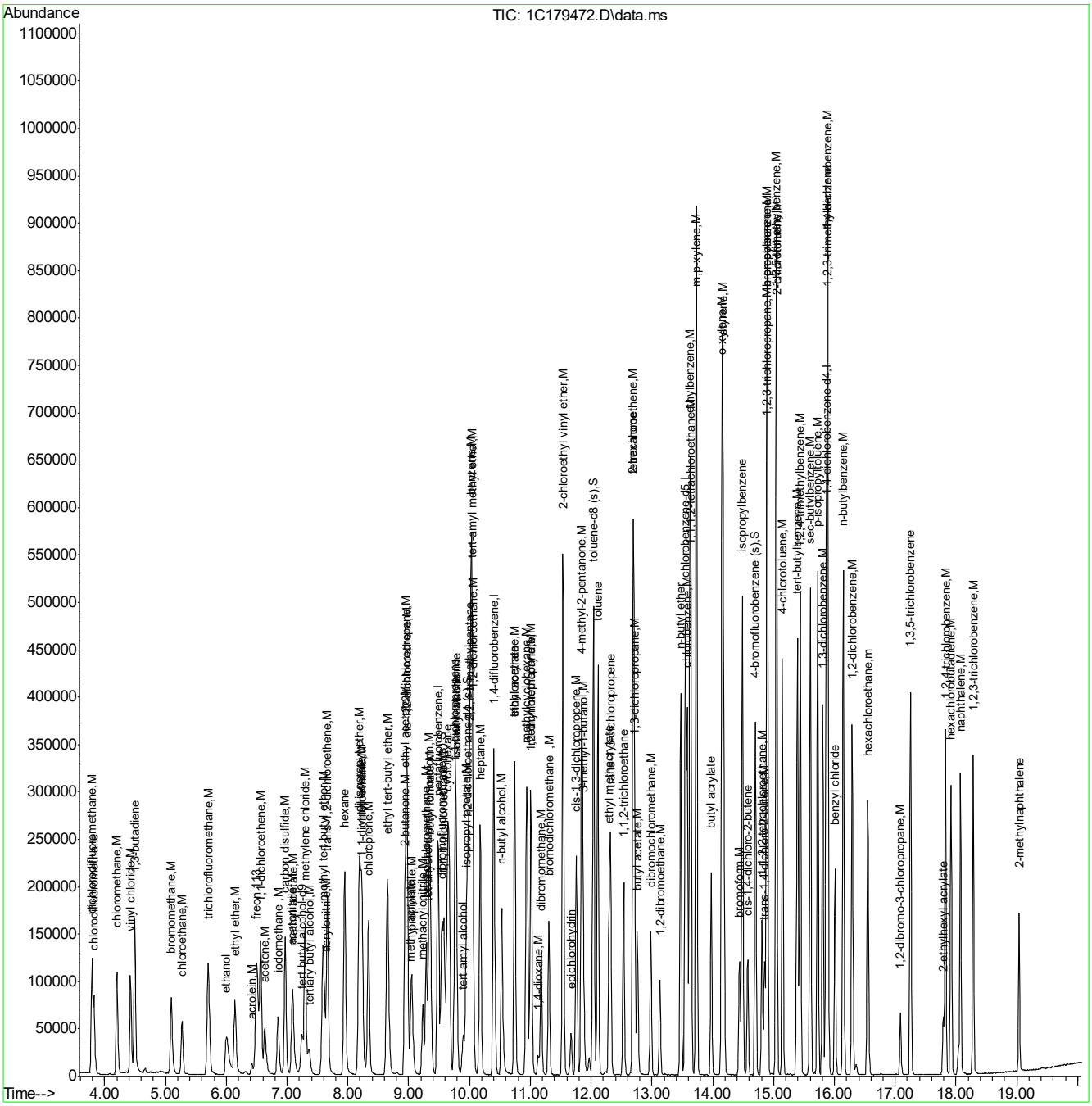
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) styrene	14.163	104	233752	49.56	ug/L	100
92) bromoform	14.440	173	59688	51.06	ug/L	100
93) butyl acrylate	13.974	55	146810	50.46	ug/L	100
94) isopropylbenzene	14.487	105	366404	49.00	ug/L	100
95) cis-1,4-dichloro-2-butene	14.576	88	28527	50.07	ug/L	100
98) bromobenzene	14.895	156	94559	50.46	ug/L	100
99) 1,1,2,2-tetrachloroethane	14.811	83	89241	51.04	ug/L	100
100) trans-1,4-dichloro-2-b...	14.848	53	22585	50.89	ug/L	100
101) 1,2,3-trichloropropane	14.884	110	20398	51.26	ug/L	100
102) n-propylbenzene	14.895	91	437936	47.80	ug/L	100
103) 2-chlorotoluene	15.052	126	86339	50.06	ug/L	100
104) 4-chlorotoluene	15.146	91	255013	46.72	ug/L	100
105) 1,3,5-trimethylbenzene	15.047	105	288647	49.34	ug/L	100
106) tert-butylbenzene	15.392	134	55137	51.30	ug/L	100
107) 1,2,4-trimethylbenzene	15.439	105	293035	49.73	ug/L	100
108) sec-butylbenzene	15.606	105	396944	49.59	ug/L	100
109) 1,3-dichlorobenzene	15.810	146	174130	50.51	ug/L	100
110) p-isopropyltoluene	15.727	119	322100	48.81	ug/L	100
111) 1,2,3-trimethylbenzene	15.889	105	295094	48.93	ug/L	100
112) 1,4-dichlorobenzene	15.894	146	168629	48.36	ug/L	100
113) benzyl chloride	16.014	91	165358	50.74	ug/L	100
114) 1,2-dichlorobenzene	16.291	146	167111	49.97	ug/L	100
115) n-butylbenzene	16.150	92	178929	49.43	ug/L	100
116) 1,2-dibromo-3-chloropr...	17.086	75	16186	51.80	ug/L	100
117) 1,3,5-trichlorobenzene	17.254	180	131707	50.19	ug/L	100
118) 2-ethylhexyl acrylate	17.792	70	16204	10.33	ug/L	100
119) 1,2,4-trichlorobenzene	17.829	180	110981	51.25	ug/L	100
120) hexachlorobutadiene	17.918	225	66209	51.19	ug/L	100
121) naphthalene	18.075	128	231111	51.52	ug/L	100
122) 1,2,3-trichlorobenzene	18.284	180	100228	52.11	ug/L	100
123) hexachloroethane	16.553	201	61547	53.33	ug/L	100
124) 2-methylnaphthalene	19.037	142	72549	26.93	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179472.D
Acq On : 15 Jul 2021 10:44 pm
Operator : PrashanS
Sample : ICC7827-50
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 16 20:41:31 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:34:12 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179473.D
Acq On : 15 Jul 2021 11:11 pm
Operator : PrashanS
Sample : IC7827-100
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 16 20:41:40 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:34:12 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.243	65	78180	500.00	ug/L	0.00
5) pentafluorobenzene	9.482	168	214815	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.402	114	336585	50.00	ug/L	0.00
73) chlorobenzene-d5	13.551	117	278132	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.868	152	132489	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.545	113	100278	51.10	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 102.20%			
52) 1,2-dichloroethane-d4 (s)	9.963	65	95888	49.62	ug/L	0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 99.24%			
74) toluene-d8 (s)	12.039	98	359456	49.00	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 98.00%			
97) 4-bromofluorobenzene (s)	14.702	95	130285	50.49	ug/L	0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 100.98%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.358	59	96839	509.70	ug/L	99
3) ethanol	6.004	45	210331	11341.20	ug/L	98
4) 1,4-dioxane	11.129	88	49468	2816.20	ug/L	96
6) dichlorodifluoromethane	3.786	85	293364	101.52	ug/L	100
7) chlorodifluoromethane	3.823	51	196494	100.93	ug/L	99
8) chloromethane	4.199	50	290284	95.99	ug/L	100
9) vinyl chloride	4.424	62	270008	104.39	ug/L	99
10) 1,3-butadiene	4.497	54	174006	99.91	ug/L	99
11) bromomethane	5.088	94	159822	94.09	ug/L	97
12) chloroethane	5.271	64	137145	102.29	ug/L	99
13) trichlorofluoromethane	5.700	101	305941	106.24	ug/L	100
14) ethyl ether	6.145	74	85742	109.31	ug/L	97
15) acrolein	6.417	56	28683	105.78	ug/L	97
16) freon 113	6.501	151	142829	105.73	ug/L	98
17) 1,1-dichloroethene	6.563	96	151217	94.74	ug/L	92
18) acetone	6.631	43	208065	409.33	ug/L	100
19) acetonitrile	7.081	41	199227	979.75	ug/L	100
20) iodomethane	6.851	142	216244	105.08	ug/L	98
21) carbon disulfide	6.966	76	540290	97.58	ug/L	100
22) methylene chloride	7.296	84	177220	97.91	ug/L	99
23) methyl acetate	7.086	43	121552	101.36	ug/L	99
24) methyl tert butyl ether	7.594	73	428388	109.87	ug/L	100
25) trans-1,2-dichloroethene	7.662	96	173198	95.91	ug/L	98
26) di-isopropyl ether	8.190	45	601062	107.41	ug/L	98
27) 2-butanone	8.938	72	74555	453.61	ug/L	91
28) 1,1-dichloroethane	8.237	63	310728	104.43	ug/L	100
29) chloroprene	8.336	53	253462	104.22	ug/L	99
30) acrylonitrile	7.636	53	57907	113.20	ug/L	98
31) hexane	7.944	57	293090	101.67	ug/L	98
32) vinyl acetate	8.221	86	26183	106.22	ug/L #	93
33) ethyl tert-butyl ether	8.650	59	549914	109.17	ug/L	99
34) ethyl acetate	8.948	45	24567	104.11	ug/L #	81

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179473.D
Acq On : 15 Jul 2021 11:11 pm
Operator : PrashanS
Sample : IC7827-100
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 16 20:41:40 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:34:12 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,2-dichloropropane	8.959	77	255250	102.73	ug/L		99
36) cis-1,2-dichloroethene	8.975	96	190616	99.36	ug/L		95
37) methyl acrylate	9.032	85	23946	115.24	ug/L	#	91
38) propionitrile	9.053	54	215287	1049.47	ug/L		95
39) bromochloromethane	9.288	128	86544	102.04	ug/L		98
40) tetrahydrofuran	9.320	42	52026	96.89	ug/L		97
41) chloroform	9.341	85	203218	97.57	ug/L		98
42) t-butyl formate	9.356	59	133285	107.68	ug/L		98
44) methacrylonitrile	9.231	67	63829	108.96	ug/L		96
45) 1,1,1-trichloroethane	9.581	97	266248	102.58	ug/L		100
46) cyclohexane	9.644	84	254071	101.43	ug/L		88
47) 1,1-dichloropropene	9.759	75	244642	105.99	ug/L		99
48) iso-butyl alcohol	9.780	43	71088	979.88	ug/L		99
49) carbon tetrachloride	9.780	117	236491	103.63	ug/L		99
50) tert amyl alcohol	9.895	55	30393	508.35	ug/L		96
53) n-butyl alcohol	10.533	56	260438	5659.09	ug/L		98
54) 2,2,4-trimethylpentane	9.994	57	746626	96.98	ug/L		99
55) benzene	10.026	78	682659	98.39	ug/L		100
56) tert-amyl methyl ether	10.041	87	114539	105.69	ug/L		91
57) heptane	10.177	71	163281	96.52	ug/L		99
58) isopropyl acetate	9.942	87	33409	108.60	ug/L		94
59) 1,2-dichloroethane	10.052	62	198717	97.19	ug/L		97
60) trichloroethene	10.742	130	195072	103.77	ug/L		99
61) ethyl acrylate	10.742	55	201338	102.89	ug/L		100
63) 2-chloroethyl vinyl ether	11.537	63	541184	543.79	ug/L		99
64) methyl methacrylate	11.009	100	38435	111.99	ug/L		96
65) 1,2-dichloropropane	11.014	63	185246	104.43	ug/L		99
66) dibromomethane	11.176	93	106394	103.95	ug/L		98
67) methylcyclohexane	10.941	83	322057	102.07	ug/L		98
68) bromodichloromethane	11.307	83	242298	104.92	ug/L		99
69) epichlorohydrin	11.668	57	81872	502.24	ug/L		97
70) cis-1,3-dichloropropene	11.757	75	300292	105.99	ug/L		99
71) 4-methyl-2-pentanone	11.846	58	244332	421.85	ug/L		99
72) 3-methyl-1-butanol	11.867	55	156002	2071.73	ug/L		99
75) toluene	12.107	92	418783	97.23	ug/L		97
76) trans-1,3-dichloropropene	12.317	75	249882	109.08	ug/L		98
77) ethyl methacrylate	12.296	69	204630	107.69	ug/L		99
78) 1,1,2-trichloroethane	12.536	83	131656	108.95	ug/L		98
79) tetrachloroethene	12.693	164	151442	101.51	ug/L		97
80) 1,3-dichloropropane	12.714	76	230929	104.46	ug/L		98
81) 2-hexanone	12.693	58	233731	422.86	ug/L		100
82) butyl acetate	12.761	56	98029	98.87	ug/L		96
83) dibromochloromethane	12.981	129	185908	108.56	ug/L		99
84) 1,2-dibromoethane	13.127	107	157449	110.86	ug/L		99
85) n-butyl ether	13.473	57	773318	102.30	ug/L		99
86) chlorobenzene	13.582	112	450566	101.53	ug/L		99
87) 1,1,1,2-tetrachloroethane	13.640	131	169718	103.23	ug/L		97
88) ethylbenzene	13.629	91	772675	96.63	ug/L		99
89) m,p-xylene	13.734	106	576935	196.96	ug/L		99
90) o-xylene	14.152	106	289787	102.66	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179473.D
Acq On : 15 Jul 2021 11:11 pm
Operator : PrashanS
Sample : IC7827-100
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 16 20:41:40 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:34:12 2021
Response via : Initial Calibration

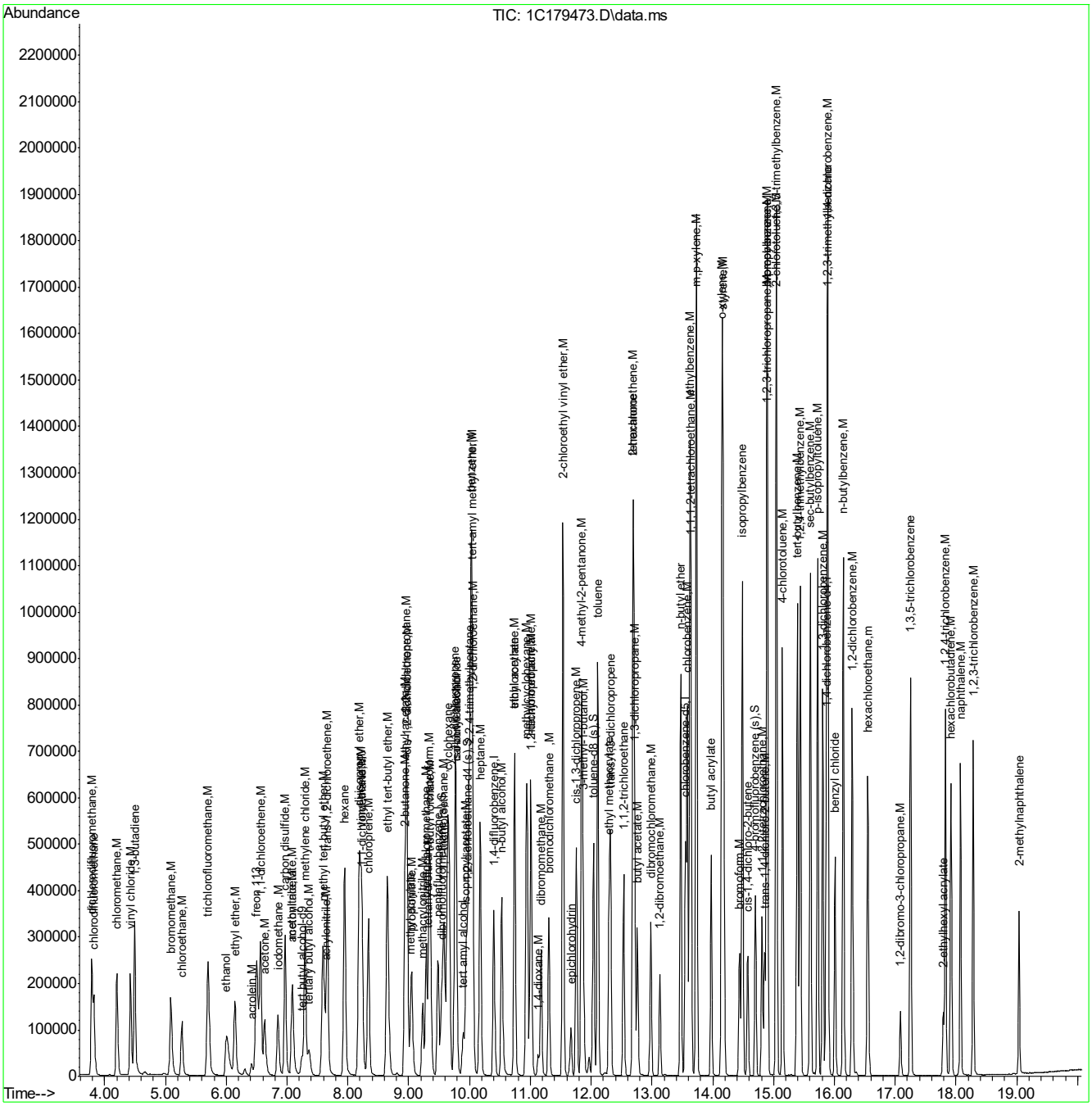
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) styrene	14.163	104	495305	102.30	ug/L	99
92) bromoform	14.440	173	132215	110.19	ug/L	98
93) butyl acrylate	13.975	55	317446	106.29	ug/L	99
94) isopropylbenzene	14.487	105	769876	100.31	ug/L	99
95) cis-1,4-dichloro-2-butene	14.576	88	62146	106.27	ug/L	98
98) bromobenzene	14.895	156	199220	102.92	ug/L	97
99) 1,1,2,2-tetrachloroethane	14.811	83	192579	106.62	ug/L	99
100) trans-1,4-dichloro-2-b...	14.853	53	48430	105.64	ug/L	90
101) 1,2,3-trichloropropane	14.885	110	43674	106.25	ug/L	97
102) n-propylbenzene	14.895	91	916255	96.81	ug/L	100
103) 2-chlorotoluene	15.047	126	182836	102.62	ug/L	95
104) 4-chlorotoluene	15.146	91	542681	96.24	ug/L	100
105) 1,3,5-trimethylbenzene	15.042	105	609574	100.87	ug/L	99
106) tert-butylbenzene	15.392	134	121465	109.40	ug/L	98
107) 1,2,4-trimethylbenzene	15.439	105	618893	101.67	ug/L	99
108) sec-butylbenzene	15.606	105	840221	101.61	ug/L	100
109) 1,3-dichlorobenzene	15.810	146	368863	103.58	ug/L	98
110) p-isopropyltoluene	15.727	119	684583	100.42	ug/L	99
111) 1,2,3-trimethylbenzene	15.889	105	628804	100.94	ug/L	100
112) 1,4-dichlorobenzene	15.894	146	355055	98.56	ug/L	100
113) benzyl chloride	16.009	91	353487	104.99	ug/L	99
114) 1,2-dichlorobenzene	16.297	146	356458	103.18	ug/L	100
115) n-butylbenzene	16.145	92	377213	100.87	ug/L	99
116) 1,2-dibromo-3-chloropr...	17.087	75	35541	110.10	ug/L	96
117) 1,3,5-trichlorobenzene	17.254	180	280196	103.36	ug/L	100
118) 2-ethylhexyl acrylate	17.793	70	34820	21.49	ug/L	93
119) 1,2,4-trichlorobenzene	17.824	180	236308	105.64	ug/L	98
120) hexachlorobutadiene	17.918	225	135871	101.70	ug/L	99
121) naphthalene	18.070	128	491520	106.06	ug/L	100
122) 1,2,3-trichlorobenzene	18.284	180	218063	109.74	ug/L	98
123) hexachloroethane	16.553	201	135664	113.78	ug/L	99
124) 2-methylnaphthalene	19.037	142	157107	56.46	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179473.D
Acq On : 15 Jul 2021 11:11 pm
Operator : PrashanS
Sample : IC7827-100
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 16 20:41:40 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:34:12 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179474.D
Acq On : 15 Jul 2021 11:38 pm
Operator : PrashanS
Sample : IC7827-200
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 16 20:41:48 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:34:12 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.248	65	79446	500.00	ug/L	0.00
5) pentafluorobenzene	9.482	168	220471	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.402	114	349110	50.00	ug/L	0.00
73) chlorobenzene-d5	13.551	117	287488	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.868	152	134892	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.544	113	103305	51.29	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 102.58%			
52) 1,2-dichloroethane-d4 (s)	9.963	65	99180	49.49	ug/L	0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 98.98%			
74) toluene-d8 (s)	12.039	98	372825	49.17	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 98.34%			
97) 4-bromofluorobenzene (s)	14.701	95	138049	52.54	ug/L	0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 105.08%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.363	59	186904	968.06	ug/L	95
3) ethanol	6.019	45	411284	21823.33	ug/L	99
4) 1,4-dioxane	11.129	88	95200	5333.34	ug/L	96
6) dichlorodifluoromethane	3.791	85	573243	193.28	ug/L	99
7) chlorodifluoromethane	3.822	51	374598	187.47	ug/L	100
8) chloromethane	4.199	50	566056	182.38	ug/L	100
9) vinyl chloride	4.424	62	530365	199.79	ug/L	100
10) 1,3-butadiene	4.497	54	327939	183.46	ug/L	99
11) bromomethane	5.078	94	327796	188.03	ug/L	99
12) chloroethane	5.266	64	267830	194.63	ug/L	99
13) trichlorofluoromethane	5.700	101	601474	203.50	ug/L	99
14) ethyl ether	6.145	74	168356	209.13	ug/L	97
15) acrolein	6.417	56	55715	200.19	ug/L	94
16) freon 113	6.506	151	276435	199.39	ug/L	98
17) 1,1-dichloroethene	6.563	96	289988	177.01	ug/L	96
18) acetone	6.631	43	376105	720.94	ug/L	99
19) acetonitrile	7.081	41	383526	1837.70	ug/L	100
20) iodomethane	6.851	142	428433	199.43	ug/L	98
21) carbon disulfide	6.966	76	1036636	182.42	ug/L	100
22) methylene chloride	7.295	84	344387	185.39	ug/L	98
23) methyl acetate	7.086	43	235191	191.10	ug/L	98
24) methyl tert butyl ether	7.593	73	831269	207.73	ug/L	99
25) trans-1,2-dichloroethene	7.661	96	331108	178.65	ug/L	99
26) di-isopropyl ether	8.190	45	1159936	201.96	ug/L	96
27) 2-butanone	8.938	72	143702	851.89	ug/L	96
28) 1,1-dichloroethane	8.237	63	595522	195.01	ug/L	99
29) chloroprene	8.336	53	489352	196.05	ug/L	100
30) acrylonitrile	7.635	53	110414	210.31	ug/L	99
31) hexane	7.944	57	552446	186.72	ug/L	98
32) vinyl acetate	8.216	86	52927	209.22	ug/L #	80
33) ethyl tert-butyl ether	8.650	59	1083219	209.52	ug/L	99
34) ethyl acetate	8.948	45	46302	191.19	ug/L #	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179474.D
Acq On : 15 Jul 2021 11:38 pm
Operator : PrashanS
Sample : IC7827-200
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 16 20:41:48 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:34:12 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) 2,2-dichloropropane	8.959	77	492560	193.15	ug/L	97
36) cis-1,2-dichloroethene	8.974	96	365152	185.45	ug/L	96
37) methyl acrylate	9.032	85	46284	217.03	ug/L	95
38) propionitrile	9.053	54	415903	1975.42	ug/L	95
39) bromochloromethane	9.288	128	168900	194.03	ug/L	99
40) tetrahydrofuran	9.319	42	98611	178.94	ug/L	98
41) chloroform	9.340	85	392565	183.64	ug/L	100
42) t-butyl formate	9.356	59	265590	209.06	ug/L	97
44) methacrylonitrile	9.231	67	124068	206.36	ug/L	97
45) 1,1,1-trichloroethane	9.581	97	518919	194.80	ug/L	99
46) cyclohexane	9.639	84	499604	194.34	ug/L	97
47) 1,1-dichloropropene	9.759	75	472286	199.37	ug/L	99
48) iso-butyl alcohol	9.780	43	139344	1871.44	ug/L	98
49) carbon tetrachloride	9.780	117	452726	193.30	ug/L	100
50) tert amyl alcohol	9.895	55	57369	934.93	ug/L	96
53) n-butyl alcohol	10.533	56	508906	10661.34	ug/L	99
54) 2,2,4-trimethylpentane	9.999	57	1427871	178.82	ug/L	99
55) benzene	10.026	78	1321061	183.58	ug/L	100
56) tert-amyl methyl ether	10.041	87	223172	198.54	ug/L	91
57) heptane	10.177	71	311392	177.46	ug/L	99
58) isopropyl acetate	9.947	87	65542	205.40	ug/L	98
59) 1,2-dichloroethane	10.052	62	380073	179.21	ug/L	99
60) trichloroethene	10.742	130	381199	195.50	ug/L	100
61) ethyl acrylate	10.742	55	394607	194.43	ug/L	99
63) 2-chloroethyl vinyl ether	11.537	63	1054824	1021.88	ug/L	100
64) methyl methacrylate	11.009	100	74582	209.52	ug/L	95
65) 1,2-dichloropropane	11.014	63	360046	195.70	ug/L	100
66) dibromomethane	11.176	93	210252	198.05	ug/L	97
67) methylcyclohexane	10.941	83	618376	188.94	ug/L	99
68) bromodichloromethane	11.307	83	477407	199.30	ug/L	100
69) epichlorohydrin	11.668	57	160855	951.36	ug/L	96
70) cis-1,3-dichloropropene	11.757	75	588393	200.23	ug/L	99
71) 4-methyl-2-pentanone	11.846	58	468612	780.06	ug/L	95
72) 3-methyl-1-butanol	11.867	55	295350	3781.57	ug/L	99
75) toluene	12.112	92	823322	184.94	ug/L	97
76) trans-1,3-dichloropropene	12.322	75	490125	206.99	ug/L	97
77) ethyl methacrylate	12.295	69	399016	203.16	ug/L	98
78) 1,1,2-trichloroethane	12.536	83	256363	205.25	ug/L	98
79) tetrachloroethene	12.693	164	292560	189.71	ug/L	98
80) 1,3-dichloropropane	12.714	76	449053	196.51	ug/L	99
81) 2-hexanone	12.693	58	443266	775.85	ug/L	98
82) butyl acetate	12.761	56	190778	186.16	ug/L	99
83) dibromochloromethane	12.981	129	368794	208.35	ug/L	99
84) 1,2-dibromoethane	13.132	107	311846	212.43	ug/L	98
85) n-butyl ether	13.472	57	1505453	192.67	ug/L	100
86) chlorobenzene	13.582	112	882364	192.37	ug/L	99
87) 1,1,1,2-tetrachloroethane	13.640	131	334387	196.77	ug/L	98
88) ethylbenzene	13.629	91	1487540	179.98	ug/L	99
89) m,p-xylene	13.734	106	1116885	368.89	ug/L	99
90) o-xylene	14.152	106	564015	193.31	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179474.D
Acq On : 15 Jul 2021 11:38 pm
Operator : PrashanS
Sample : IC7827-200
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 16 20:41:48 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:34:12 2021
Response via : Initial Calibration

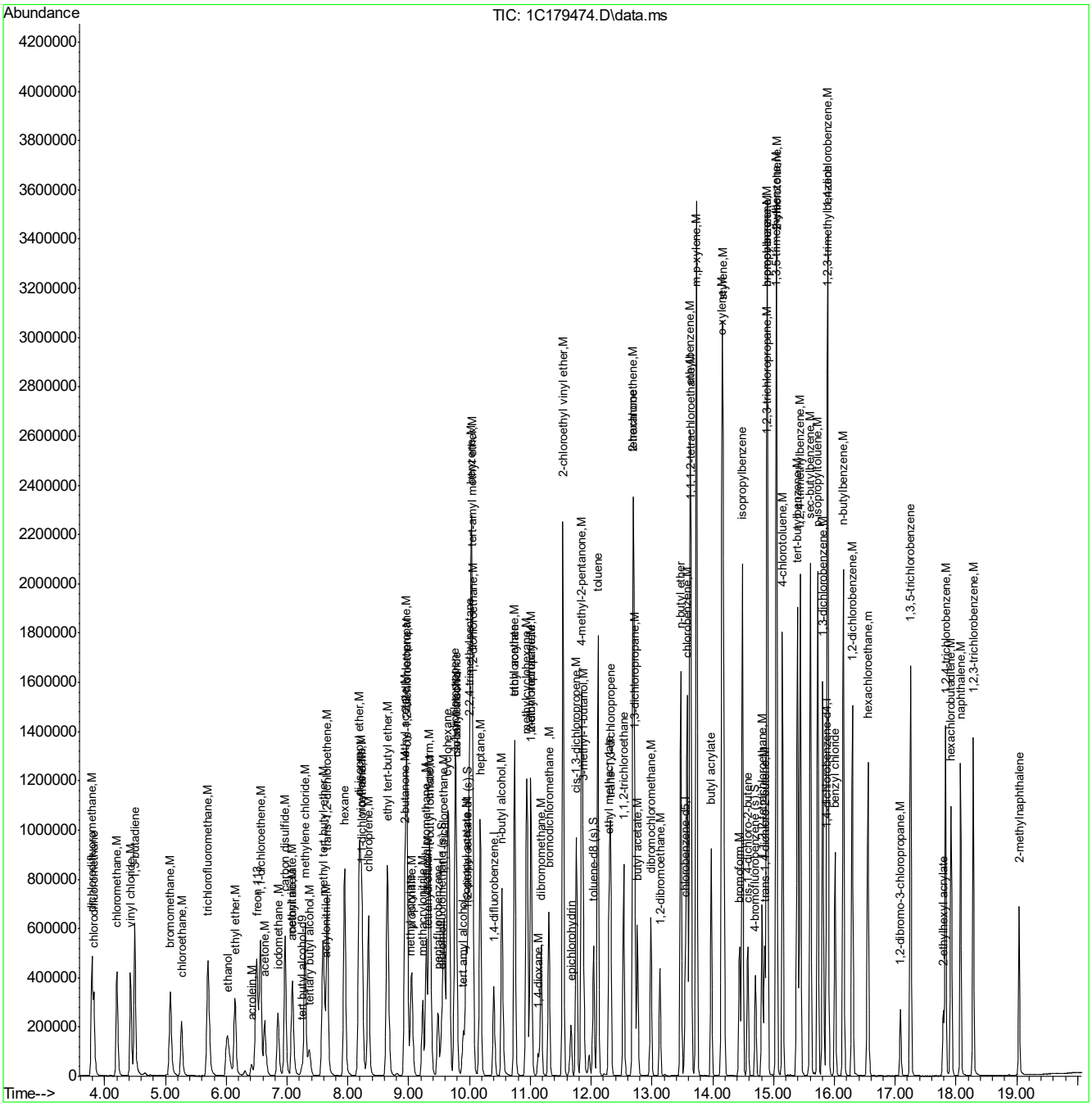
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) styrene	14.163	104	951195	190.07	ug/L	98
92) bromoform	14.440	173	265723	214.24	ug/L	98
93) butyl acrylate	13.974	55	620522	201.01	ug/L	99
94) isopropylbenzene	14.487	105	1489628	187.78	ug/L	99
95) cis-1,4-dichloro-2-butene	14.576	88	124898	206.62	ug/L	99
98) bromobenzene	14.895	156	383597	194.64	ug/L	97
99) 1,1,2,2-tetrachloroethane	14.811	83	384146	208.90	ug/L	98
100) trans-1,4-dichloro-2-b...	14.853	53	94948	203.42	ug/L	95
101) 1,2,3-trichloropropane	14.884	110	84386	201.63	ug/L	97
102) n-propylbenzene	14.895	91	1742368	180.81	ug/L	98
103) 2-chlorotoluene	15.052	126	354358	195.34	ug/L	99
104) 4-chlorotoluene	15.146	91	1066544	185.77	ug/L	100
105) 1,3,5-trimethylbenzene	15.047	105	1169725	190.11	ug/L	99
106) tert-butylbenzene	15.392	134	231494	204.79	ug/L	97
107) 1,2,4-trimethylbenzene	15.439	105	1174529	189.51	ug/L	99
108) sec-butylbenzene	15.606	105	1619750	192.39	ug/L	99
109) 1,3-dichlorobenzene	15.810	146	712433	196.49	ug/L	99
110) p-isopropyltoluene	15.727	119	1305286	188.06	ug/L	98
111) 1,2,3-trimethylbenzene	15.889	105	1186373	187.04	ug/L	99
112) 1,4-dichlorobenzene	15.894	146	674477	183.89	ug/L	98
113) benzyl chloride	16.014	91	690532	201.44	ug/L	99
114) 1,2-dichlorobenzene	16.297	146	684402	194.58	ug/L	99
115) n-butylbenzene	16.150	92	714442	187.64	ug/L	98
116) 1,2-dibromo-3-chloropr...	17.086	75	68783	209.27	ug/L	96
117) 1,3,5-trichlorobenzene	17.254	180	534331	193.60	ug/L	100
118) 2-ethylhexyl acrylate	17.792	70	67993	41.22	ug/L	98
119) 1,2,4-trichlorobenzene	17.829	180	439677	193.05	ug/L	99
120) hexachlorobutadiene	17.918	225	239731	176.24	ug/L	99
121) naphthalene	18.075	128	933242	197.78	ug/L	100
122) 1,2,3-trichlorobenzene	18.284	180	407549	201.44	ug/L	99
123) hexachloroethane	16.553	201	265932	219.07	ug/L	99
124) 2-methylnaphthalene	19.037	142	299236	105.62	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179474.D
Acq On : 15 Jul 2021 11:38 pm
Operator : PrashanS
Sample : IC7827-200
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 16 20:41:48 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 10:34:12 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179477.D
Acq On : 16 Jul 2021 1:00 am
Operator : PrashanS
Sample : ICV7827-50
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 16 20:44:06 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 20:43:13 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	7.243	65	77478	500.00	ug/L		0.00
5) pentafluorobenzene	9.482	168	224012	50.00	ug/L		0.00
51) 1,4-difluorobenzene	10.402	114	346341	50.00	ug/L		0.00
73) chlorobenzene-d5	13.551	117	288293	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	15.868	152	135932	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.544	113	104013	50.82	ug/L		0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 101.64%				
52) 1,2-dichloroethane-d4 (s)	9.963	65	97438	49.01	ug/L		0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 98.02%				
74) toluene-d8 (s)	12.039	98	372297	48.96	ug/L		0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 97.92%				
97) 4-bromofluorobenzene (s)	14.701	95	132791	50.16	ug/L		0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 100.32%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	7.363	59	47070	249.92	ug/L		97
3) ethanol	6.003	45	99956	5292.38	ug/L		99
4) 1,4-dioxane	11.129	88	24557	1410.69	ug/L		94
6) dichlorodifluoromethane	3.791	85	96636	32.74	ug/L		100
8) chloromethane	4.199	50	130540	41.39	ug/L		99
9) vinyl chloride	4.424	62	115117	42.30	ug/L		98
10) 1,3-butadiene	4.497	54	104439	57.26	ug/L		98
11) bromomethane	5.093	94	76083	42.95	ug/L		99
12) chloroethane	5.271	64	60935	44.32	ug/L		99
13) trichlorofluoromethane	5.705	101	131105	43.66	ug/L		97
14) ethyl ether	6.145	74	45470	55.59	ug/L		95
15) acrolein	6.422	56	10405	36.80	ug/L		100
16) freon 113	6.500	151	69244	49.16	ug/L		97
17) 1,1-dichloroethene	6.563	96	79142	47.54	ug/L		94
18) acetone	6.636	43	98072	182.75	ug/L		99
20) iodomethane	6.851	142	85551	42.00	ug/L		98
21) carbon disulfide	6.966	76	289290	50.10	ug/L		100
22) methylene chloride	7.295	84	90777	48.09	ug/L		99
23) methyl acetate	7.091	43	57921	46.32	ug/L		98
24) methyl tert butyl ether	7.593	73	223521	54.97	ug/L		99
25) trans-1,2-dichloroethene	7.661	96	89282	47.41	ug/L		100
26) di-isopropyl ether	8.190	45	286096	49.03	ug/L		99
27) 2-butanone	8.938	72	36414	212.45	ug/L		96
28) 1,1-dichloroethane	8.237	63	160053	51.58	ug/L		99
29) chloroprene	8.336	53	137959	54.40	ug/L		99
31) hexane	7.949	57	140973	46.89	ug/L		97
32) vinyl acetate	8.221	86	12329	47.93	ug/L	#	88
33) ethyl tert-butyl ether	8.655	59	261848	49.85	ug/L		98
34) ethyl acetate	8.948	45	12409	50.39	ug/L	#	87
35) 2,2-dichloropropane	8.959	77	129965	48.97	ug/L		100
36) cis-1,2-dichloroethene	8.974	96	100611	50.29	ug/L		96
37) methyl acrylate	9.037	85	11667	53.84	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179477.D
Acq On : 16 Jul 2021 1:00 am
Operator : PrashanS
Sample : ICV7827-50
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 16 20:44:06 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 20:43:13 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38) propionitrile	9.053	54	109993	514.11	ug/L		98
39) bromochloromethane	9.288	128	46365	52.42	ug/L		97
40) tetrahydrofuran	9.325	42	24945	44.55	ug/L		99
41) chloroform	9.346	85	104706	48.21	ug/L		98
42) t-butyl formate	9.356	59	39114	30.30	ug/L		99
44) methacrylonitrile	9.231	67	31808	52.05	ug/L		97
45) 1,1,1-trichloroethane	9.581	97	135291	49.99	ug/L		99
46) cyclohexane	9.639	84	134168	51.36	ug/L		96
47) 1,1-dichloropropene	9.759	75	124640	51.78	ug/L		99
48) iso-butyl alcohol	9.780	43	34412	455.38	ug/L		96
49) carbon tetrachloride	9.780	117	120400	50.59	ug/L		99
50) tert amyl alcohol	9.895	55	15055	241.47	ug/L		95
53) n-butyl alcohol	10.533	56	120252	2535.81	ug/L		99
54) 2,2,4-trimethylpentane	9.999	57	349588	44.13	ug/L		99
55) benzene	10.026	78	357803	50.12	ug/L		100
56) tert-amyl methyl ether	10.041	87	51378	46.07	ug/L		90
57) heptane	10.177	71	81855	48.03	ug/L		98
58) isopropyl acetate	9.942	87	16029	50.63	ug/L	#	92
59) 1,2-dichloroethane	10.052	62	103891	49.37	ug/L		98
60) trichloroethene	10.742	130	100260	51.83	ug/L		99
61) ethyl acrylate	10.742	55	97529	48.35	ug/L		99
63) 2-chloroethyl vinyl ether	11.537	63	255807	249.80	ug/L		98
64) methyl methacrylate	11.009	100	19118	54.14	ug/L		97
65) 1,2-dichloropropane	11.009	63	94313	51.67	ug/L		99
66) dibromomethane	11.176	93	53802	51.09	ug/L		97
67) methylcyclohexane	10.941	83	157941	48.64	ug/L		98
68) bromodichloromethane	11.307	83	121563	51.15	ug/L		99
69) epichlorohydrin	11.673	57	40072	238.90	ug/L		99
70) cis-1,3-dichloropropene	11.757	75	147751	50.68	ug/L		98
71) 4-methyl-2-pentanone	11.846	58	117512	197.18	ug/L		99
72) 3-methyl-1-butanol	11.867	55	72695	935.40	ug/L		97
75) toluene	12.112	92	214376	48.02	ug/L		99
76) trans-1,3-dichloropropene	12.322	75	129290	54.45	ug/L		99
77) ethyl methacrylate	12.295	69	100642	51.10	ug/L		96
78) 1,1,2-trichloroethane	12.536	83	65375	52.19	ug/L		99
80) 1,3-dichloropropane	12.714	76	117657	51.34	ug/L		99
81) 2-hexanone	12.693	58	115022	200.76	ug/L		99
82) butyl acetate	12.761	56	49968	48.62	ug/L		96
83) dibromochloromethane	12.981	129	95059	53.55	ug/L		99
84) 1,2-dibromoethane	13.127	107	79306	53.87	ug/L		99
85) n-butyl ether	13.472	57	364959	46.54	ug/L		99
86) chlorobenzene	13.582	112	230478	50.11	ug/L		99
87) 1,1,1,2-tetrachloroethane	13.640	131	86382	50.69	ug/L		99
88) ethylbenzene	13.624	91	394213	47.56	ug/L		100
89) m,p-xylene	13.734	106	297842	98.09	ug/L		99
90) o-xylene	14.152	106	147477	50.41	ug/L		100
91) styrene	14.163	104	250136	49.84	ug/L		99
92) bromoform	14.440	173	65043	52.30	ug/L		99
93) butyl acrylate	13.974	55	153469	49.35	ug/L		100
94) isopropylbenzene	14.487	105	384243	48.30	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179477.D
Acq On : 16 Jul 2021 1:00 am
Operator : PrashanS
Sample : ICV7827-50
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 16 20:44:06 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 20:43:13 2021
Response via : Initial Calibration

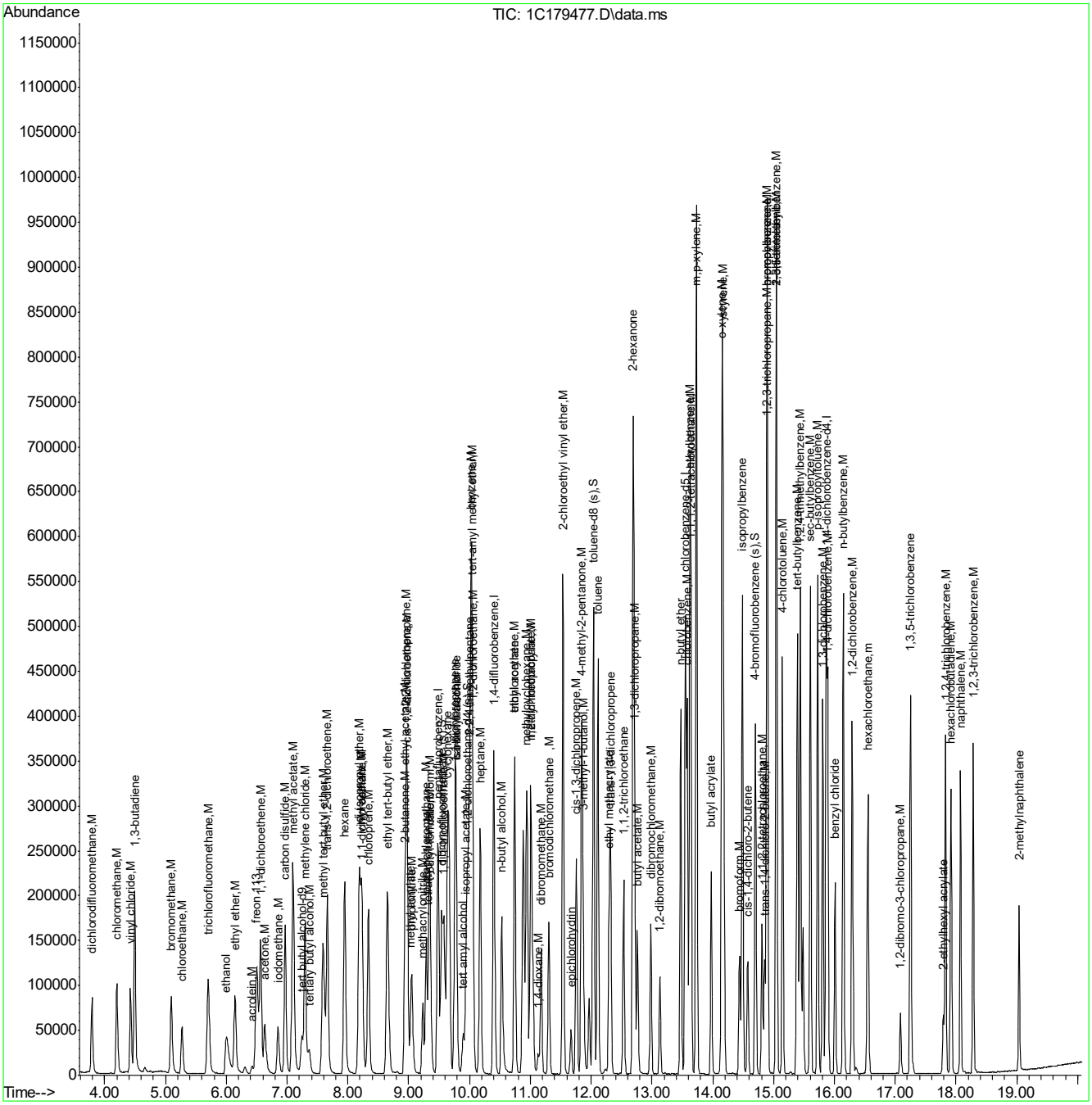
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) cis-1,4-dichloro-2-butene	14.576	88	30214	49.84	ug/L	99
98) bromobenzene	14.895	156	102139	51.43	ug/L	99
99) 1,1,2,2-tetrachloroethane	14.811	83	92692	50.02	ug/L	100
100) trans-1,4-dichloro-2-b...	14.853	53	23638	49.27	ug/L	94
101) 1,2,3-trichloropropane	14.884	110	21884	51.89	ug/L	95
102) n-propylbenzene	14.895	91	468330	48.23	ug/L	100
103) 2-chlorotoluene	15.047	126	92744	50.73	ug/L	94
104) 4-chlorotoluene	15.146	91	272619	47.11	ug/L	99
105) 1,3,5-trimethylbenzene	15.047	105	307672	49.62	ug/L	99
106) tert-butylbenzene	15.392	134	59338	50.91	ug/L	97
107) 1,2,4-trimethylbenzene	15.439	105	314680	50.38	ug/L	99
108) sec-butylbenzene	15.606	105	418284	49.30	ug/L	99
109) 1,3-dichlorobenzene	15.810	146	183395	50.19	ug/L	98
110) p-isopropyltoluene	15.727	119	341066	48.76	ug/L	99
112) 1,4-dichlorobenzene	15.894	146	180514	48.84	ug/L	99
113) benzyl chloride	16.009	91	160557	45.79	ug/L	98
114) 1,2-dichlorobenzene	16.291	146	178991	50.91	ug/L	100
115) n-butylbenzene	16.150	92	184200	48.01	ug/L	99
116) 1,2-dibromo-3-chloropr...	17.086	75	17040	51.45	ug/L	98
117) 1,3,5-trichlorobenzene	17.254	180	138156	49.67	ug/L	99
118) 2-ethylhexyl acrylate	17.792	70	17192	10.34	ug/L	98
119) 1,2,4-trichlorobenzene	17.829	180	117629	51.25	ug/L	97
120) hexachlorobutadiene	17.918	225	67427	49.19	ug/L	98
121) naphthalene	18.075	128	250172	52.60	ug/L	99
122) 1,2,3-trichlorobenzene	18.284	180	108672	53.29	ug/L	99
123) hexachloroethane	16.553	201	66362	54.25	ug/L	98
124) 2-methylnaphthalene	19.037	142	80770	28.27	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179477.D
Acq On : 16 Jul 2021 1:00 am
Operator : PrashanS
Sample : ICV7827-50
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 16 20:44:06 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 20:43:13 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179478.D
Acq On : 16 Jul 2021 1:27 am
Operator : PrashanS
Sample : ICV7827-50
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 16 20:45:23 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 20:43:13 2021
Response via : Initial Calibration

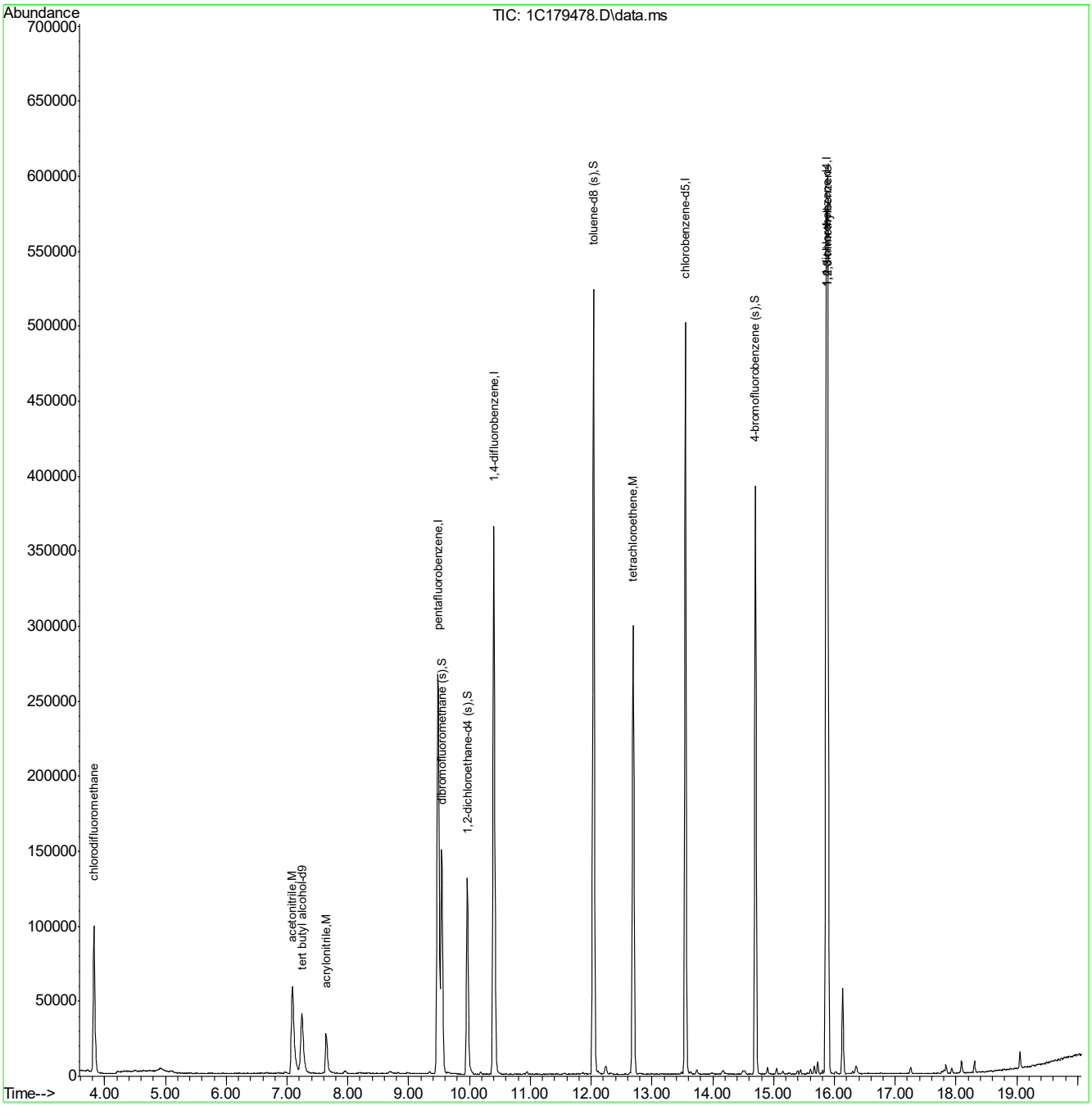
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.243	65	77013	500.00	ug/L	0.00
5) pentafluorobenzene	9.482	168	232853	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.402	114	346462	50.00	ug/L	0.00
73) chlorobenzene-d5	13.551	117	293825	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.868	152	140099	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.544	113	106818	50.21	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 100.42%			
52) 1,2-dichloroethane-d4 (s)	9.963	65	99394	49.97	ug/L	0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 99.94%			
74) toluene-d8 (s)	12.039	98	382283	49.33	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 98.66%			
97) 4-bromofluorobenzene (s)	14.701	95	133781	49.03	ug/L	0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 98.06%			
Target Compounds						Qvalue
7) chlorodifluoromethane	3.828	51	134021	64.67	ug/L	98
19) acetonitrile	7.086	41	101927	462.42	ug/L	99
30) acrylonitrile	7.646	53	27924	50.36	ug/L	99
79) tetrachloroethene	12.693	164	76917	48.80	ug/L	99
111) 1,2,3-trimethylbenzene	15.889	105	312826	47.48	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179478.D
Acq On : 16 Jul 2021 1:27 am
Operator : PrashanS
Sample : ICV7827-50
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 16 20:45:23 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 20:43:13 2021
Response via : Initial Calibration



M1CS7827.M Mon Jul 19 12:36:50 2021 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179481.D
Acq On : 16 Jul 2021 11:34 am
Operator : PrashanS
Sample : ICV7827-50
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 16 20:48:23 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 20:43:13 2021
Response via : Initial Calibration

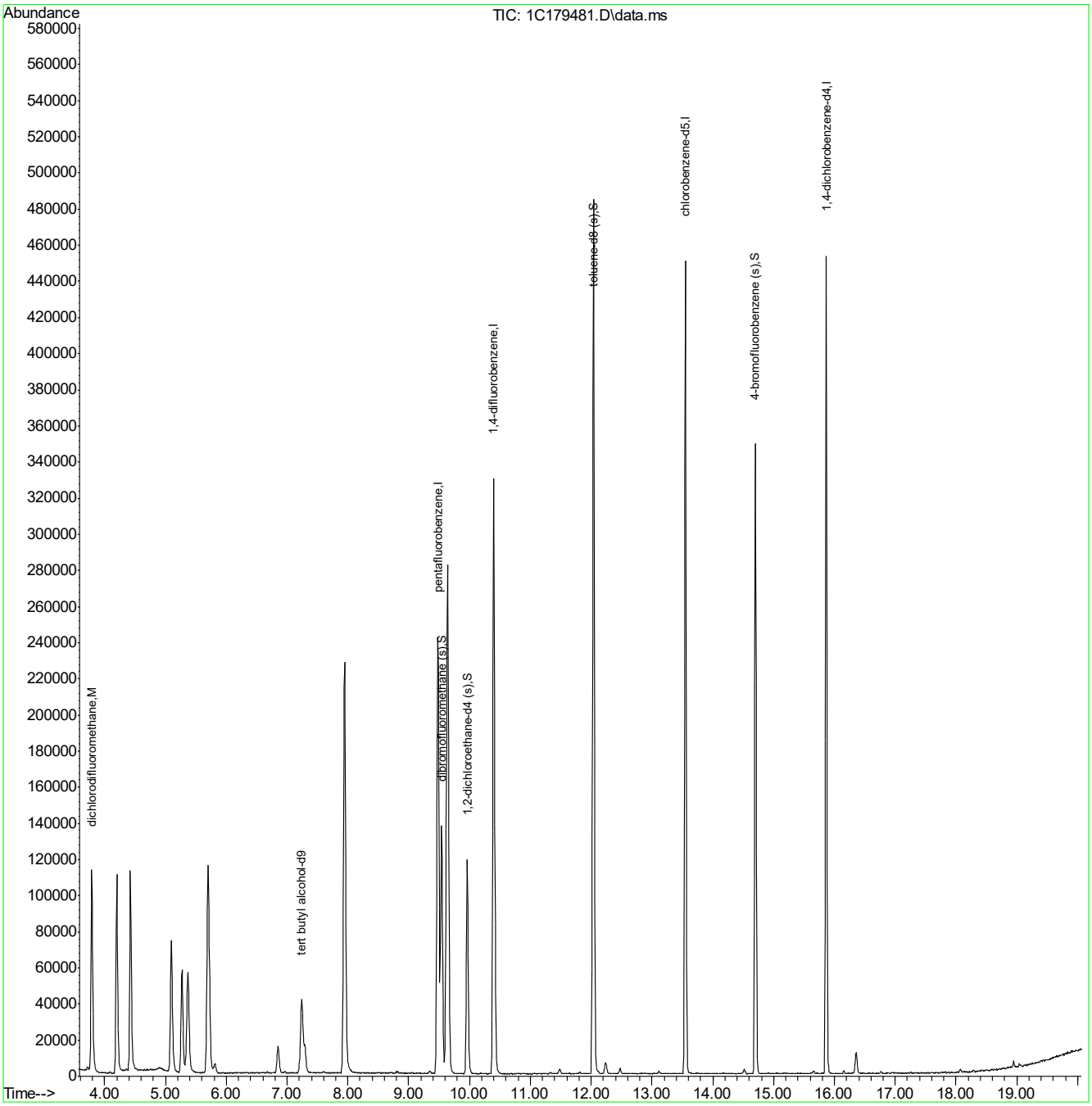
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.238	65	78389	500.00	ug/L	-0.01
5) pentafluorobenzene	9.482	168	211381	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.397	114	315513	50.00	ug/L	0.00
73) chlorobenzene-d5	13.551	117	261937	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.868	152	123146	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.539	113	96126	49.78	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 99.56%			
52) 1,2-dichloroethane-d4 (s)	9.963	65	89839	49.60	ug/L	0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 99.20%			
74) toluene-d8 (s)	12.039	98	347745	50.33	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 100.66%			
97) 4-bromofluorobenzene (s)	14.701	95	118914	49.58	ug/L	0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 99.16%			
Target Compounds						Qvalue
6) dichlorodifluoromethane	3.791	85	128493	46.13	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V1C7827\
Data File : 1C179481.D
Acq On : 16 Jul 2021 11:34 am
Operator : PrashanS
Sample : ICV7827-50
Misc : MS52150,V1C7827,5.0,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 16 20:48:23 2021
Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 16 20:43:13 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180226.d
Acq On : 18 Aug 2021 10:17 am
Operator : PrashanS
Sample : cc7827-50 Inst : GCMS1C
Misc : MS52972,V1C7855,5.0,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 03:55:38 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.243	65	81632	500.00	ug/L	0.00
5) pentafluorobenzene	9.482	168	209356	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.402	114	326109	50.00	ug/L	0.00
73) chlorobenzene-d5	13.546	117	263030	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.868	152	125715	50.00	ug/L	0.00
125) pentafluorobenzene(a)	9.482	168	209356	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.539	113	102091	53.38	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 106.76%			
52) 1,2-dichloroethane-d4 (s)	9.963	65	101570	54.25	ug/L	0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 108.50%			
74) toluene-d8 (s)	12.034	98	356661	51.41	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 102.82%			
97) 4-bromofluorobenzene (s)	14.702	95	123145	50.29	ug/L	0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 100.58%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.358	59	44868	226.11	ug/L	96
3) ethanol	6.009	45	98618	4955.83	ug/L	98
4) 1,4-dioxane	11.129	88	22806	1243.43	ug/L	98
6) dichlorodifluoromethane	3.791	85	106819	38.72	ug/L	99
7) chlorodifluoromethane	3.823	51	101774	54.62	ug/L	99
8) chloromethane	4.199	50	121079	41.08	ug/L	99
9) vinyl chloride	4.424	62	110307	43.37	ug/L	99
10) 1,3-butadiene	4.497	54	77627	45.54	ug/L	98
11) bromomethane	5.094	94	66422	40.12	ug/L	97
12) chloroethane	5.271	64	58386	45.44	ug/L	99
13) trichlorofluoromethane	5.706	101	132460	47.20	ug/L	97
14) ethyl ether	6.145	74	38239	50.02	ug/L	96
15) acrolein	6.422	56	11343	42.92	ug/L	93
16) freon 113	6.501	151	62482	47.46	ug/L	96
17) 1,1-dichloroethene	6.563	96	70169	45.10	ug/L	90
18) acetone	6.631	43	94523	188.46	ug/L	97
19) acetonitrile	7.081	41	100793	508.60	ug/L	98
20) iodomethane	6.846	142	77755	40.94	ug/L	99
21) carbon disulfide	6.966	76	251812	46.66	ug/L	99
22) methylene chloride	7.296	84	83431	47.30	ug/L	95
23) methyl acetate	7.092	43	57885	49.53	ug/L	95
24) methyl tert butyl ether	7.594	73	193824	51.00	ug/L	99
25) trans-1,2-dichloroethene	7.662	96	81766	46.46	ug/L	97
26) di-isopropyl ether	8.185	45	277772	50.93	ug/L	98
27) 2-butanone	8.938	72	32669	203.95	ug/L #	82
28) 1,1-dichloroethane	8.232	63	148599	51.24	ug/L	98
29) chloroprene	8.336	53	118601	50.04	ug/L	99
30) acrylonitrile	7.641	53	21125	42.37	ug/L	93
31) hexane	7.949	57	131366	46.75	ug/L	99
32) vinyl acetate	8.221	86	11990	49.88	ug/L	95
33) ethyl tert-butyl ether	8.650	59	250231	50.97	ug/L	98
34) ethyl acetate	8.954	45	11415	49.59	ug/L #	44
35) 2,2-dichloropropane	8.959	77	125008	50.40	ug/L	98
36) cis-1,2-dichloroethene	8.974	96	87246	46.66	ug/L	99
37) methyl acrylate	9.032	85	10891	53.78	ug/L	93
38) propionitrile	9.053	54	108316	541.71	ug/L	96
39) bromochloromethane	9.283	128	39260	47.50	ug/L	90
40) tetrahydrofuran	9.320	42	26456	50.56	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180226.d
Acq On : 18 Aug 2021 10:17 am
Operator : PrashanS
Sample : cc7827-50 Inst : GCMS1C
Misc : MS52972,V1C7855,5.0,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 03:55:38 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41)	chloroform	9.341	85	97511	48.04	ug/L		99
42)	t-butyl formate	9.356	59	64856	53.76	ug/L		95
44)	methacrylonitrile	9.231	67	29754	52.10	ug/L		94
45)	1,1,1-trichloroethane	9.576	97	127902	50.56	ug/L		99
46)	cyclohexane	9.639	84	106781	43.74	ug/L		95
47)	1,1-dichloropropene	9.759	75	114161	50.75	ug/L		99
48)	iso-butyl alcohol	9.780	43	32347	458.02	ug/L		97
49)	carbon tetrachloride	9.780	117	112117	50.41	ug/L		100
50)	tert amyl alcohol	9.890	55	14184	243.43	ug/L		90
53)	n-butyl alcohol	10.528	56	114592	2566.37	ug/L		99
54)	2,2,4-trimethylpentane	10.000	57	335542	44.99	ug/L		98
55)	benzene	10.026	78	317850	47.28	ug/L		100
56)	tert-amyl methyl ether	10.041	87	51023	48.59	ug/L		90
57)	heptane	10.172	71	70503	43.94	ug/L		97
58)	isopropyl acetate	9.947	87	14699	49.31	ug/L		96
59)	1,2-dichloroethane	10.052	62	95185	48.04	ug/L		97
60)	trichloroethene	10.742	130	87112	47.83	ug/L		99
61)	ethyl acrylate	10.742	55	91053	47.94	ug/L		99
63)	2-chloroethyl vinyl ether	11.537	63	237067	245.86	ug/L		99
64)	methyl methacrylate	11.009	100	16405	49.34	ug/L	#	90
65)	1,2-dichloropropane	11.009	63	84528	49.18	ug/L		98
66)	dibromomethane	11.176	93	47642	48.04	ug/L		97
67)	methylcyclohexane	10.941	83	139006	45.47	ug/L		99
68)	bromodichloromethane	11.302	83	110829	49.53	ug/L		99
69)	epichlorohydrin	11.668	57	38375	242.97	ug/L		97
70)	cis-1,3-dichloropropene	11.757	75	133862	48.77	ug/L		99
71)	4-methyl-2-pentanone	11.846	58	102715	183.04	ug/L		97
72)	3-methyl-1-butanol	11.867	55	66014	902.13	ug/L		98
75)	toluene	12.107	92	182493	44.80	ug/L		99
76)	trans-1,3-dichloropropene	12.317	75	111330	51.39	ug/L		99
77)	ethyl methacrylate	12.296	69	85175	47.40	ug/L		97
78)	1,1,2-trichloroethane	12.531	83	54834	47.98	ug/L		97
79)	tetrachloroethene	12.693	164	65112	46.15	ug/L		97
80)	1,3-dichloropropane	12.714	76	100511	48.07	ug/L		98
81)	2-hexanone	12.693	58	101193	193.59	ug/L		99
82)	butyl acetate	12.761	56	44069	47.00	ug/L		97
83)	dibromochloromethane	12.981	129	78743	48.62	ug/L		98
84)	1,2-dibromoethane	13.127	107	65292	48.61	ug/L		98
85)	n-butyl ether	13.472	57	319951	44.72	ug/L		99
86)	chlorobenzene	13.577	112	193476	46.10	ug/L		99
87)	1,1,1,2-tetrachloroethane	13.640	131	72552	46.66	ug/L		100
88)	ethylbenzene	13.624	91	340853	45.07	ug/L		99
89)	m,p-xylene	13.734	106	247523	89.34	ug/L		97
90)	o-xylene	14.152	106	121494	45.51	ug/L		98
91)	styrene	14.163	104	209413	45.74	ug/L		97
92)	bromoform	14.440	173	55261	48.70	ug/L		96
93)	butyl acrylate	13.975	55	126666	44.64	ug/L		98
94)	isopropylbenzene	14.487	105	329349	45.38	ug/L		100
95)	cis-1,4-dichloro-2-butene	14.576	88	28510	51.55	ug/L		91
98)	bromobenzene	14.895	156	84069	45.77	ug/L		96
99)	1,1,2,2-tetrachloroethane	14.811	83	77691	45.33	ug/L		100
100)	trans-1,4-dichloro-2-b...	14.848	53	21448	48.34	ug/L		94
101)	1,2,3-trichloropropane	14.885	110	18861	48.36	ug/L		92
102)	n-propylbenzene	14.895	91	398618	44.38	ug/L		100
103)	2-chlorotoluene	15.047	126	77822	46.03	ug/L		89
104)	4-chlorotoluene	15.146	91	234033	43.73	ug/L		99
105)	1,3,5-trimethylbenzene	15.041	105	263425	45.94	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180226.d
Acq On : 18 Aug 2021 10:17 am
Operator : PrashanS
Sample : cc7827-50 Inst : GCMS1C
Misc : MS52972,V1C7855,5.0,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 03:55:38 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

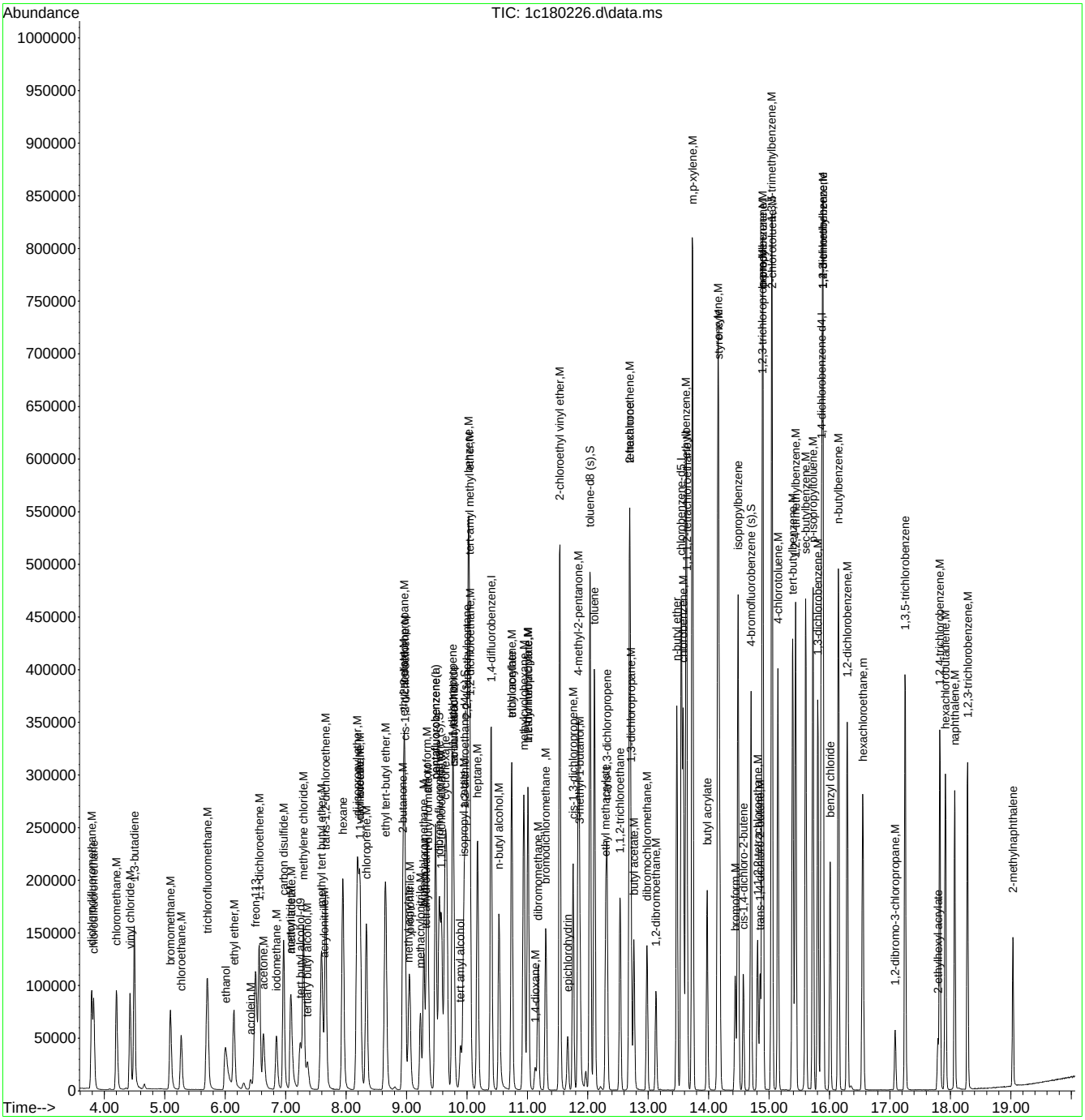
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) tert-butylbenzene	15.392	134	49052	45.51	ug/L	92
107) 1,2,4-trimethylbenzene	15.439	105	269050	46.58	ug/L	99
108) sec-butylbenzene	15.606	105	356532	45.44	ug/L	99
109) 1,3-dichlorobenzene	15.805	146	158692	46.96	ug/L	97
110) p-isopropyltoluene	15.727	119	295651	45.70	ug/L	99
111) 1,2,3-trimethylbenzene	15.889	105	265703	44.95	ug/L	98
112) 1,4-dichlorobenzene	15.889	146	154164	45.10	ug/L	98
113) benzyl chloride	16.009	91	164555	50.74	ug/L	98
114) 1,2-dichlorobenzene	16.292	146	151364	46.55	ug/L	99
115) n-butylbenzene	16.145	92	163737	46.14	ug/L	97
116) 1,2-dibromo-3-chloropr...	17.087	75	15082	49.24	ug/L	94
117) 1,3,5-trichlorobenzene	17.249	180	126752	49.28	ug/L	98
118) 2-ethylhexyl acrylate	17.793	70	12294	8.00	ug/L	93
119) 1,2,4-trichlorobenzene	17.824	180	102836	48.44	ug/L	99
120) hexachlorobutadiene	17.918	225	63045	49.73	ug/L	99
121) naphthalene	18.070	128	202165	45.96	ug/L	99
122) 1,2,3-trichlorobenzene	18.284	180	91438	48.48	ug/L	98
123) hexachloroethane	16.553	201	57875	51.16	ug/L	98
124) 2-methylnaphthalene	19.032	142	61259	23.18	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-19-2021\v1c7855\
Data File : 1c180226.d
Acq On : 18 Aug 2021 10:17 am
Operator : PrashanS
Sample : cc7827-50 Inst : GCMS1C
Misc : MS52972,V1C7855,5.0,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 03:55:38 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\08-20-21\v1c7856-rush\
Data File : 1c180256.d
Acq On : 19 Aug 2021 10:20 am
Operator : PrashanS
Sample : CC7827-50 Inst : GCMS1C
Misc : MS53008,V1C7856,5.0,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 13:07:14 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.243	65	79217	500.00	ug/L	0.00
5) pentafluorobenzene	9.482	168	213768	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.402	114	335345	50.00	ug/L	0.00
73) chlorobenzene-d5	13.551	117	267255	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.863	152	129310	50.00	ug/L	0.00
125) pentafluorobenzene(a)	9.482	168	213768	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.545	113	104506	53.51	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 107.02%			
52) 1,2-dichloroethane-d4 (s)	9.963	65	106013	55.07	ug/L	0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 110.14%			
74) toluene-d8 (s)	12.039	98	364501	51.71	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 103.42%			
97) 4-bromofluorobenzene (s)	14.702	95	125153	49.69	ug/L	0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 99.38%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.358	59	53601	278.35	ug/L	97
3) ethanol	6.004	45	116122	6013.36	ug/L	97
4) 1,4-dioxane	11.129	88	27122	1523.83	ug/L	97
6) dichlorodifluoromethane	3.791	85	131478	46.67	ug/L	98
7) chlorodifluoromethane	3.828	51	123673	65.00	ug/L	96
8) chloromethane	4.199	50	146886	48.81	ug/L	100
9) vinyl chloride	4.424	62	135773	52.28	ug/L	99
10) 1,3-butadiene	4.497	54	94821	54.48	ug/L	98
11) bromomethane	5.094	94	80744	47.77	ug/L	99
12) chloroethane	5.271	64	71268	54.31	ug/L	98
13) trichlorofluoromethane	5.706	101	160808	56.11	ug/L	97
14) ethyl ether	6.145	74	46772	59.92	ug/L	98
15) acrolein	6.417	56	12506	46.35	ug/L	97
16) freon 113	6.506	151	74802	55.65	ug/L	95
17) 1,1-dichloroethene	6.563	96	83161	52.35	ug/L	85
18) acetone	6.631	43	110619	216.00	ug/L	97
19) acetonitrile	7.086	41	117706	581.68	ug/L	100
20) iodomethane	6.851	142	100139	50.68	ug/L	98
21) carbon disulfide	6.966	76	293577	53.28	ug/L	100
22) methylene chloride	7.296	84	98263	54.56	ug/L	98
23) methyl acetate	7.092	43	67851	56.86	ug/L	99
24) methyl tert butyl ether	7.594	73	241236	62.17	ug/L	100
25) trans-1,2-dichloroethene	7.662	96	94170	52.40	ug/L	96
26) di-isopropyl ether	8.190	45	333572	59.90	ug/L	99
27) 2-butanone	8.938	72	39460	241.26	ug/L #	87
28) 1,1-dichloroethane	8.237	63	176120	59.48	ug/L	99
29) chloroprene	8.336	53	139975	57.84	ug/L	99
30) acrylonitrile	7.641	53	23961	47.07	ug/L	95
31) hexane	7.949	57	151027	52.64	ug/L	98
32) vinyl acetate	8.221	86	14793	60.26	ug/L	95
33) ethyl tert-butyl ether	8.650	59	308351	61.51	ug/L	99
34) ethyl acetate	8.954	45	13325	56.70	ug/L #	44
35) 2,2-dichloropropane	8.959	77	151793	59.93	ug/L	98
36) cis-1,2-dichloroethene	8.975	96	103980	54.47	ug/L	99
37) methyl acrylate	9.032	85	12917	62.47	ug/L	98
38) propionitrile	9.053	54	126808	621.10	ug/L	96
39) bromochloromethane	9.288	128	47207	55.93	ug/L	95
40) tetrahydrofuran	9.325	42	30797	57.64	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\08-20-21\v1c7856-rush\
Data File : 1c180256.d
Acq On : 19 Aug 2021 10:20 am
Operator : PrashanS
Sample : CC7827-50 Inst : GCMS1C
Misc : MS53008,V1C7856,5.0,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 13:07:14 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) chloroform	9.341	85	115974	55.95	ug/L	99
42) t-butyl formate	9.356	59	75295	61.13	ug/L	96
44) methacrylonitrile	9.231	67	35008	60.03	ug/L	98
45) 1,1,1-trichloroethane	9.576	97	151634	58.71	ug/L	99
46) cyclohexane	9.639	84	129297	51.87	ug/L	96
47) 1,1-dichloropropene	9.759	75	132456	57.67	ug/L	99
48) iso-butyl alcohol	9.780	43	37667	522.34	ug/L	96
49) carbon tetrachloride	9.780	117	132442	58.32	ug/L	98
50) tert amyl alcohol	9.895	55	16904	284.12	ug/L	95
53) n-butyl alcohol	10.533	56	136838	2980.18	ug/L	99
54) 2,2,4-trimethylpentane	9.994	57	383344	49.98	ug/L	99
55) benzene	10.026	78	377554	54.62	ug/L	98
56) tert-amyl methyl ether	10.041	87	62312	57.71	ug/L	98
57) heptane	10.177	71	81074	49.14	ug/L	99
58) isopropyl acetate	9.942	87	17877	58.32	ug/L	96
59) 1,2-dichloroethane	10.052	62	114869	56.38	ug/L	97
60) trichloroethene	10.742	130	103267	55.14	ug/L	98
61) ethyl acrylate	10.742	55	109360	56.00	ug/L	98
63) 2-chloroethyl vinyl ether	11.537	63	283256	285.67	ug/L	100
64) methyl methacrylate	11.009	100	19757	57.78	ug/L	99
65) 1,2-dichloropropane	11.014	63	101794	57.60	ug/L	99
66) dibromomethane	11.176	93	57684	56.57	ug/L	97
67) methylcyclohexane	10.946	83	160829	51.16	ug/L	99
68) bromodichloromethane	11.307	83	134416	58.42	ug/L	99
69) epichlorohydrin	11.668	57	45265	278.70	ug/L	98
70) cis-1,3-dichloropropene	11.757	75	161382	57.17	ug/L	99
71) 4-methyl-2-pentanone	11.846	58	123887	214.69	ug/L	98
72) 3-methyl-1-butanol	11.867	55	79439	1055.70	ug/L	99
75) toluene	12.113	92	217867	52.64	ug/L	99
76) trans-1,3-dichloropropene	12.317	75	134535	61.12	ug/L	100
77) ethyl methacrylate	12.296	69	103761	56.83	ug/L	98
78) 1,1,2-trichloroethane	12.531	83	67213	57.89	ug/L	97
79) tetrachloroethene	12.693	164	77063	53.75	ug/L	98
80) 1,3-dichloropropane	12.714	76	120825	56.88	ug/L	99
81) 2-hexanone	12.693	58	119833	225.62	ug/L	99
82) butyl acetate	12.761	56	51954	54.53	ug/L	99
83) dibromochloromethane	12.981	129	97375	59.18	ug/L	99
84) 1,2-dibromoethane	13.127	107	79978	58.61	ug/L	97
85) n-butyl ether	13.473	57	376930	51.85	ug/L	99
86) chlorobenzene	13.577	112	231350	54.26	ug/L	99
87) 1,1,1,2-tetrachloroethane	13.640	131	89583	56.71	ug/L	98
88) ethylbenzene	13.624	91	398975	51.93	ug/L	99
89) m,p-xylene	13.734	106	295412	104.94	ug/L	98
90) o-xylene	14.152	106	146091	53.86	ug/L	99
91) styrene	14.163	104	249317	53.59	ug/L	99
92) bromoform	14.440	173	67066	58.17	ug/L	97
93) butyl acrylate	13.975	55	155379	53.90	ug/L	98
94) isopropylbenzene	14.487	105	392140	53.18	ug/L	100
95) cis-1,4-dichloro-2-butene	14.576	88	34524	61.44	ug/L	90
98) bromobenzene	14.895	156	102132	54.06	ug/L	96
99) 1,1,2,2-tetrachloroethane	14.811	83	93465	53.02	ug/L	100
100) trans-1,4-dichloro-2-b...	14.848	53	26190	57.39	ug/L	92
101) 1,2,3-trichloropropane	14.885	110	22653	56.46	ug/L	97
102) n-propylbenzene	14.895	91	469451	50.82	ug/L	99
103) 2-chlorotoluene	15.047	126	92378	53.12	ug/L	93
104) 4-chlorotoluene	15.146	91	278447	50.58	ug/L	99
105) 1,3,5-trimethylbenzene	15.042	105	315699	53.53	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\08-20-21\v1c7856-rush\
Data File : 1c180256.d
Acq On : 19 Aug 2021 10:20 am
Operator : PrashanS
Sample : CC7827-50 Inst : GCMS1C
Misc : MS53008,V1C7856,5.0,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 13:07:14 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration

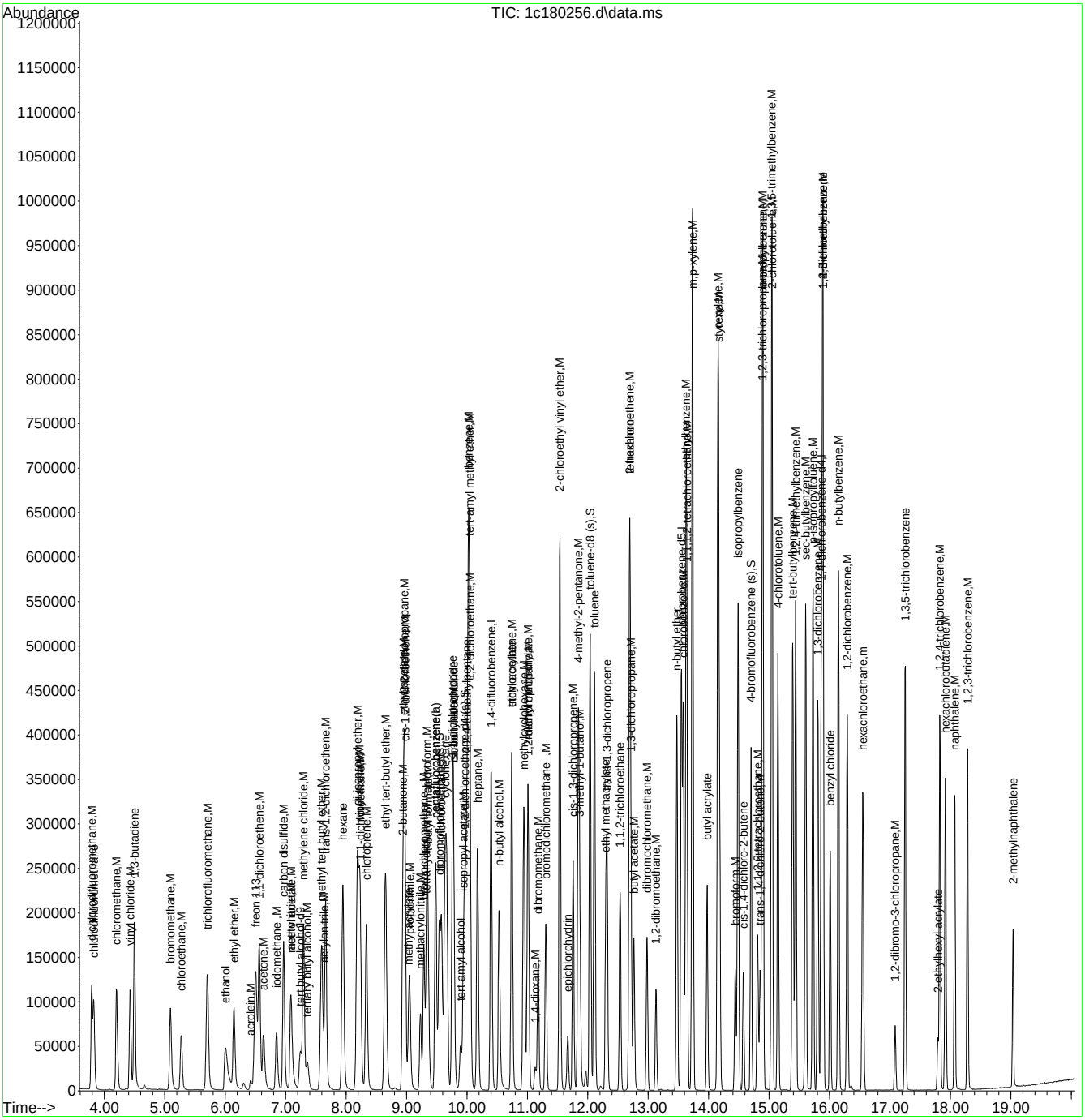
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) tert-butylbenzene	15.392	134	58936	53.16	ug/L	96
107) 1,2,4-trimethylbenzene	15.439	105	321089	54.04	ug/L	98
108) sec-butylbenzene	15.606	105	419783	52.01	ug/L	98
109) 1,3-dichlorobenzene	15.805	146	190700	54.87	ug/L	98
110) p-isopropyltoluene	15.727	119	352270	52.94	ug/L	99
111) 1,2,3-trimethylbenzene	15.889	105	314317	51.69	ug/L	99
112) 1,4-dichlorobenzene	15.889	146	184293	52.41	ug/L	98
113) benzyl chloride	16.009	91	204132	61.19	ug/L	97
114) 1,2-dichlorobenzene	16.292	146	181561	54.29	ug/L	98
115) n-butylbenzene	16.145	92	191991	52.60	ug/L	98
116) 1,2-dibromo-3-chloropr...	17.087	75	18263	57.96	ug/L	95
117) 1,3,5-trichlorobenzene	17.254	180	154021	58.21	ug/L	98
118) 2-ethylhexyl acrylate	17.793	70	14780	9.35	ug/L	98
119) 1,2,4-trichlorobenzene	17.824	180	126011	57.71	ug/L	99
120) hexachlorobutadiene	17.918	225	74889	57.43	ug/L	98
121) naphthalene	18.070	128	241691	53.42	ug/L	99
122) 1,2,3-trichlorobenzene	18.284	180	112391	57.94	ug/L	100
123) hexachloroethane	16.553	201	69145	59.42	ug/L	98
124) 2-methylnaphthalene	19.037	142	75717	27.85	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\08-20-21\v1c7856-rush\
Data File : 1c180256.d
Acq On : 19 Aug 2021 10:20 am
Operator : PrashanS
Sample : CC7827-50 Inst : GCMS1C
Misc : MS53008,V1C7856,5.0,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1CS7827.M
Quant Results File: M1CS7827.RES
Quant Time: Aug 19 13:07:14 2021
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Jul 23 17:44:22 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167224.D
Acq On : 16 Jun 2021 5:21 pm
Operator : PrashanS
Sample : IC7415-0.2
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 17:47:33 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration

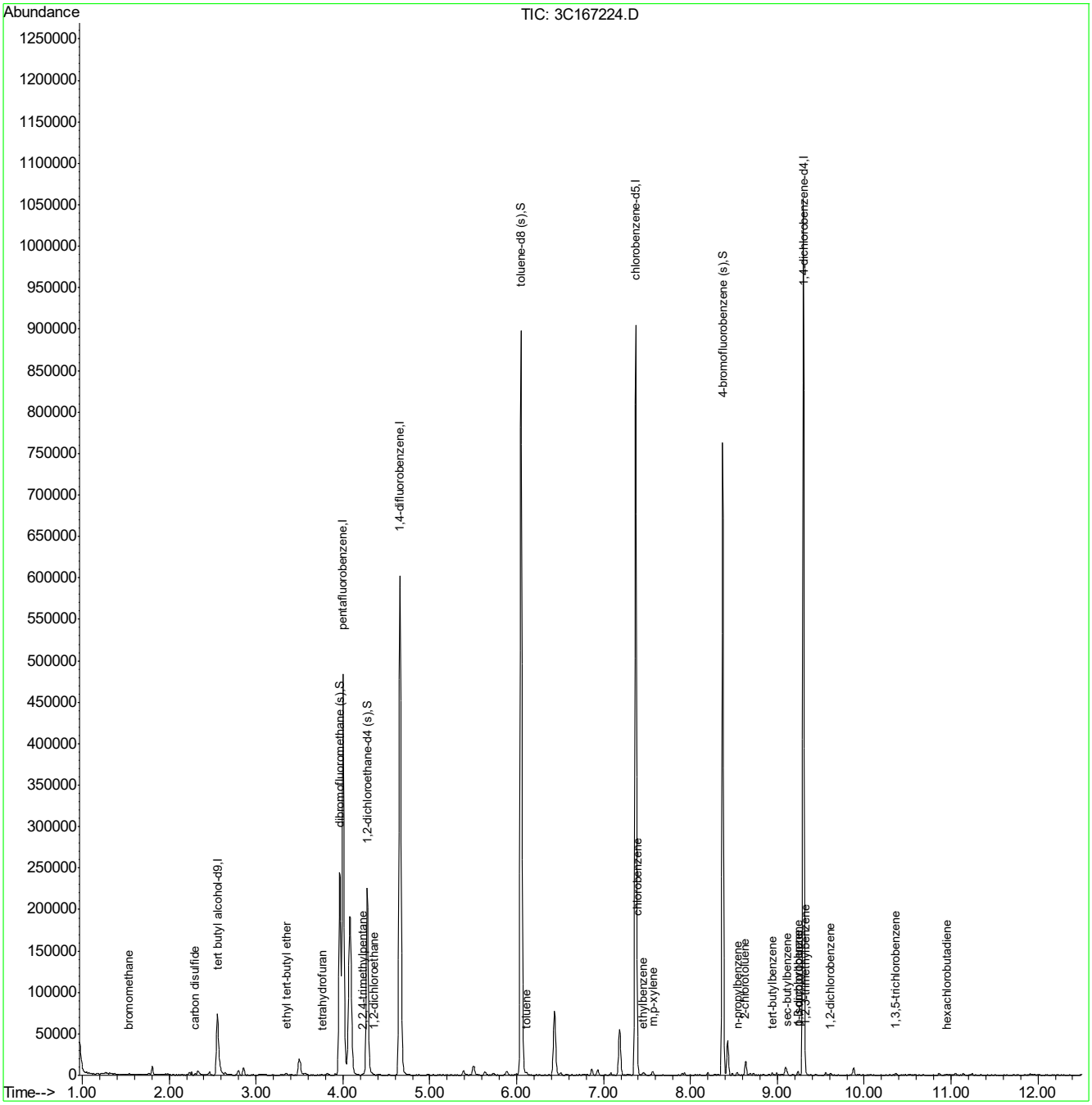
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) tert butyl alcohol-d9	2.56	65	71154	500.00	ug/L		0.00
5) pentafluorobenzene	4.00	168	297073	50.00	ug/L		0.00
49) 1,4-difluorobenzene	4.66	114	443414	50.00	ug/L		0.00
71) chlorobenzene-d5	7.37	117	393924	50.00	ug/L		0.00
94) 1,4-dichlorobenzene-d4	9.30	152	198642	50.00	ug/L		0.00
System Monitoring Compounds							
42) dibromofluoromethane (s)	3.96	113	125127	48.58	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 97.16%				
50) 1,2-dichloroethane-d4 (s)	4.28	65	134528	50.97	ug/L		0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 101.94%				
72) toluene-d8 (s)	6.05	98	504252	48.10	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 96.20%				
95) 4-bromofluorobenzene (s)	8.37	95	180888	49.21	ug/L		0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 98.42%				
Target Compounds							Qvalue
10) bromomethane	1.54	94	346	0.20	ug/L		82
20) carbon disulfide	2.30	76	1445	0.19	ug/L		70
27) ethyl tert-butyl ether	3.34	59	1383	0.20	ug/L	#	69
38) tetrahydrofuran	3.77	42	108	0.21	ug/L	#	31
51) 2,2,4-trimethylpentane	4.24	57	1953	0.17	ug/L	#	65
57) 1,2-dichloroethane	4.35	62	605	0.21	ug/L	#	50
73) toluene	6.12	92	1087	0.17	ug/L		88
84) chlorobenzene	7.39	112	1138	0.17	ug/L		87
86) ethylbenzene	7.46	91	2132	0.17	ug/L		95
87) m,p-xylene	7.56	106	1442	0.31	ug/L		99
100) n-propylbenzene	8.54	91	2271	0.16	ug/L		98
101) 2-chlorotoluene	8.63	126	502	0.18	ug/L	#	73
104) tert-butylbenzene	8.94	119	1471	0.16	ug/L		87
106) sec-butylbenzene	9.12	105	2178	0.16	ug/L		89
107) 1,3-dichlorobenzene	9.24	146	1120	0.20	ug/L		90
108) p-isopropyltoluene	9.24	119	2102	0.18	ug/L		73
110) 1,2,3-trimethylbenzene	9.33	105	1660	0.16	ug/L		94
111) 1,2-dichlorobenzene	9.61	146	834	0.16	ug/L		79
114) 1,3,5-trichlorobenzene	10.37	180	913	0.19	ug/L	#	78
116) hexachlorobutadiene	10.95	225	512	0.19	ug/L	#	28

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167224.D
Acq On : 16 Jun 2021 5:21 pm
Operator : PrashanS
Sample : IC7415-0.2
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 17:47:33 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167225.D
Acq On : 16 Jun 2021 5:46 pm
Operator : PrashanS
Sample : IC7415-0.5
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 28 17:48:29 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) tert butyl alcohol-d9	2.56	65	67058	500.00	ug/L		0.00
5) pentafluorobenzene	4.00	168	294231	50.00	ug/L		0.00
49) 1,4-difluorobenzene	4.66	114	444125	50.00	ug/L		0.00
71) chlorobenzene-d5	7.37	117	390234	50.00	ug/L		0.00
94) 1,4-dichlorobenzene-d4	9.30	152	197672	50.00	ug/L		0.00
System Monitoring Compounds							
42) dibromofluoromethane (s)	3.96	113	125261	49.10	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 98.20%				
50) 1,2-dichloroethane-d4 (s)	4.28	65	133963	50.68	ug/L		0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 101.36%				
72) toluene-d8 (s)	6.05	98	503406	48.47	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 96.94%				
95) 4-bromofluorobenzene (s)	8.37	95	181254	49.55	ug/L		0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 99.10%				
Target Compounds							Qvalue
7) chloromethane	1.22	50	1537	0.46	ug/L	#	49
10) bromomethane	1.53	94	752	0.44	ug/L		86
12) trichlorofluoromethane	1.76	101	1695	0.42	ug/L		81
20) carbon disulfide	2.30	76	3309	0.45	ug/L		83
26) di-isopropyl ether	3.06	45	2914	0.37	ug/L		97
27) ethyl tert-butyl ether	3.34	59	2910	0.41	ug/L		89
29) 1,1-dichloroethane	3.07	63	1576	0.35	ug/L		85
38) tetrahydrofuran	3.76	42	211	0.41	ug/L	#	31
39) chloroform	3.82	83	2038	0.47	ug/L		88
45) cyclohexane	3.92	84	1561	0.38	ug/L	#	79
51) 2,2,4-trimethylpentane	4.24	57	4412	0.39	ug/L		91
54) benzene	4.25	78	3986	0.41	ug/L		96
57) 1,2-dichloroethane	4.35	62	1444	0.50	ug/L	#	50
66) bromodichloromethane	5.42	83	1135	0.36	ug/L		88
73) toluene	6.11	92	2341	0.37	ug/L		89
78) tetrachloroethene	6.59	166	1130	0.39	ug/L		83
84) chlorobenzene	7.39	112	2673	0.40	ug/L		89
86) ethylbenzene	7.46	91	4991	0.41	ug/L		94
87) m,p-xylene	7.56	106	3514	0.75	ug/L		97
88) o-xylene	7.90	91	3571	0.38	ug/L		98
100) n-propylbenzene	8.54	91	5464	0.38	ug/L		89
101) 2-chlorotoluene	8.63	126	1119	0.40	ug/L	#	84
102) 4-chlorotoluene	8.72	126	1194	0.41	ug/L		93
103) 1,3,5-trimethylbenzene	8.69	105	3661	0.37	ug/L		91
104) tert-butylbenzene	8.94	119	3557	0.40	ug/L		87
105) 1,2,4-trimethylbenzene	9.00	105	3642	0.36	ug/L		95
106) sec-butylbenzene	9.12	105	4928	0.37	ug/L		94
107) 1,3-dichlorobenzene	9.24	146	2437	0.43	ug/L		78
108) p-isopropyltoluene	9.23	119	4345	0.37	ug/L		87
109) 1,4-dichlorobenzene	9.32	146	2712	0.48	ug/L		96
110) 1,2,3-trimethylbenzene	9.33	105	3630	0.36	ug/L		86
111) 1,2-dichlorobenzene	9.61	146	2268	0.44	ug/L		93
114) 1,3,5-trichlorobenzene	10.36	180	1988	0.42	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167225.D
Acq On : 16 Jun 2021 5:46 pm
Operator : PrashanS
Sample : IC7415-0.5
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 28 17:48:29 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
115) 1,2,4-trichlorobenzene	10.86	180	1690	0.39	ug/L		97
116) hexachlorobutadiene	10.95	225	1193	0.44	ug/L	#	66
117) naphthalene	11.05	128	3100	0.38	ug/L		99
118) 1,2,3-trichlorobenzene	11.25	180	1746	0.45	ug/L		92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

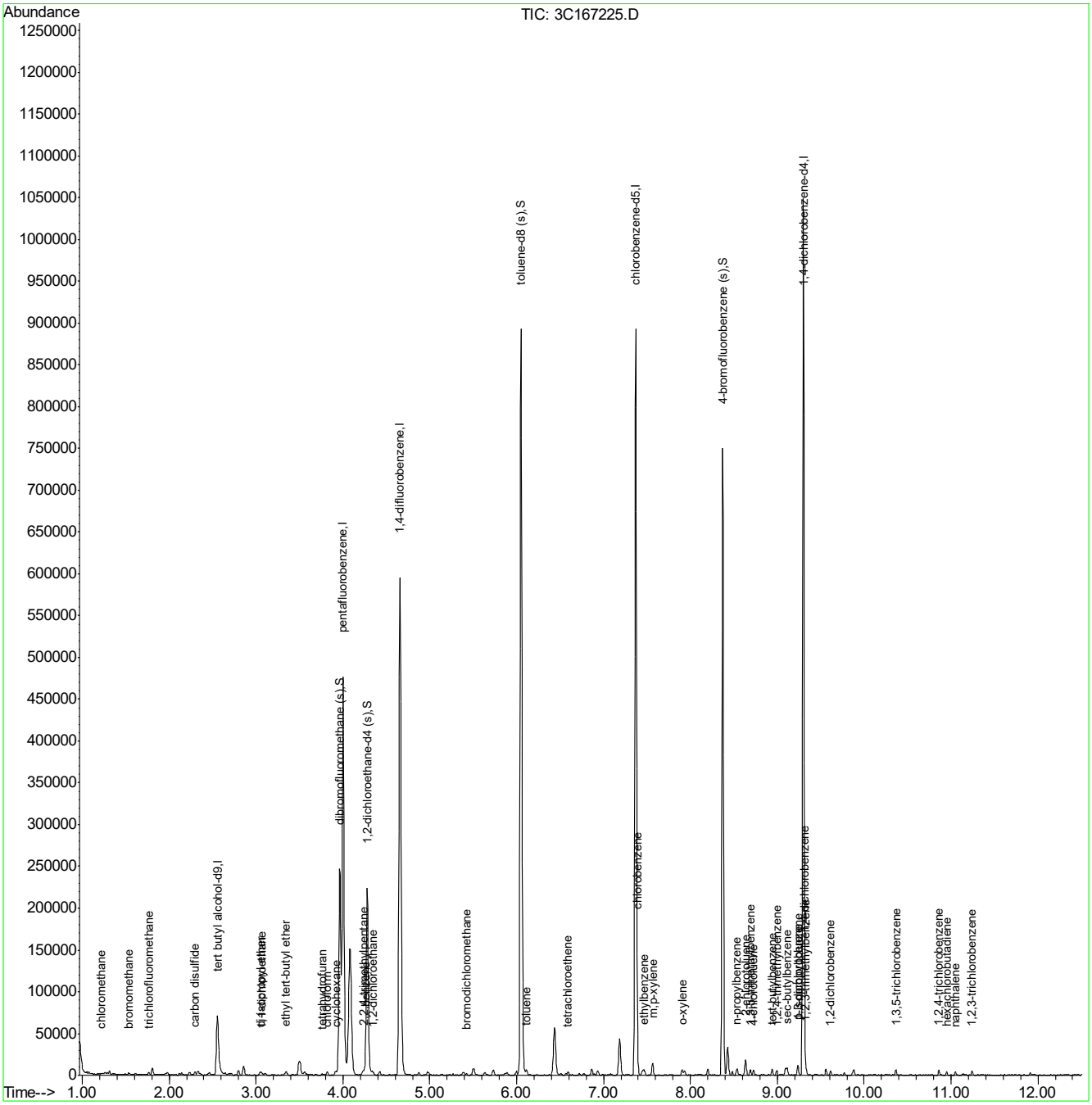
7.7.17

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Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167225.D
Acq On : 16 Jun 2021 5:46 pm
Operator : PrashanS
Sample : IC7415-0.5
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 28 17:48:29 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration



M3C7415.M Wed Jun 30 17:04:45 2021 MS3C Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167226.D
Acq On : 16 Jun 2021 6:12 pm
Operator : PrashanS
Sample : IC7415-1
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 28 17:49:57 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) tert butyl alcohol-d9	2.56	65	63493	500.00	ug/L		0.00
5) pentafluorobenzene	4.00	168	290090	50.00	ug/L		0.00
49) 1,4-difluorobenzene	4.66	114	437468	50.00	ug/L		0.00
71) chlorobenzene-d5	7.37	117	379486	50.00	ug/L		0.00
94) 1,4-dichlorobenzene-d4	9.30	152	191943	50.00	ug/L		0.00
System Monitoring Compounds							
42) dibromofluoromethane (s)	3.96	113	123669	49.17	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 98.34%				
50) 1,2-dichloroethane-d4 (s)	4.28	65	130185	50.00	ug/L		0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 100.00%				
72) toluene-d8 (s)	6.05	98	501246	49.63	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.26%				
95) 4-bromofluorobenzene (s)	8.37	95	174647	49.17	ug/L		0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 98.34%				
Target Compounds							Qvalue
3) tertiary butyl alcohol	2.62	59	541	3.68	ug/L		52
6) dichlorodifluoromethane	1.08	85	2636	0.78	ug/L		85
7) chloromethane	1.23	50	3065	0.93	ug/L		93
9) vinyl chloride	1.29	62	2360	0.76	ug/L		86
10) bromomethane	1.53	94	1472	0.87	ug/L		75
11) chloroethane	1.61	64	1506	0.79	ug/L		92
12) trichlorofluoromethane	1.76	101	2870	0.72	ug/L		85
13) ethyl ether	1.98	74	866	0.71	ug/L	#	59
16) 1,1-dichloroethene	2.15	96	1446	0.68	ug/L		83
20) carbon disulfide	2.30	76	6442	0.88	ug/L		98
23) methyl tert butyl ether	2.69	73	4816	0.89	ug/L		92
24) trans-1,2-dichloroethene	2.72	96	1837	0.75	ug/L		98
26) di-isopropyl ether	3.05	45	6191	0.80	ug/L		91
27) ethyl tert-butyl ether	3.34	59	5522	0.80	ug/L		95
29) 1,1-dichloroethane	3.07	63	3200	0.73	ug/L		78
30) chloroprene	3.11	53	2903	0.76	ug/L		83
34) 2,2-dichloropropane	3.52	77	3146	0.92	ug/L		84
35) cis-1,2-dichloroethene	3.55	96	2037	0.78	ug/L		92
36) propionitrile	3.68	54	1818	8.14	ug/L		68
37) bromochloromethane	3.76	130	1052	0.73	ug/L	#	61
38) tetrahydrofuran	3.76	42	434	0.85	ug/L	#	31
39) chloroform	3.82	83	4225	0.99	ug/L		96
45) cyclohexane	3.92	84	3066	0.75	ug/L		81
46) 1,1-dichloropropene	4.07	110	790	0.61	ug/L	#	66
48) carbon tetrachloride	4.04	119	3079	0.94	ug/L	#	74
51) 2,2,4-trimethylpentane	4.23	57	9316	0.84	ug/L		95
54) benzene	4.25	78	8313	0.86	ug/L		98
55) heptane	4.42	57	1841	0.77	ug/L		91
57) 1,2-dichloroethane	4.35	62	2407	0.84	ug/L		89
58) trichloroethene	4.87	95	2163	0.84	ug/L		83
61) 2-chloroethyl vinyl ether	5.73	63	4818	3.88	ug/L		98
63) 1,2-dichloropropane	5.13	63	1758	0.74	ug/L		88
65) dibromomethane	5.26	93	826	0.68	ug/L		88

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167226.D
Acq On : 16 Jun 2021 6:12 pm
Operator : PrashanS
Sample : IC7415-1
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 28 17:49:57 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
66) bromodichloromethane	5.42	83	2641	0.86 ug/L	95
68) cis-1,3-dichloropropene	5.86	75	2791	0.73 ug/L	99
69) 4-methyl-2-pentanone	6.00	85	914	3.11 ug/L #	55
73) toluene	6.11	92	5493	0.89 ug/L	89
74) trans-1,3-dichloropropene	6.41	75	2787	0.90 ug/L	84
76) 1,1,2-trichloroethane	6.57	83	1143	0.75 ug/L	91
77) 2-hexanone	6.77	58	1714	2.66 ug/L #	84
78) tetrachloroethene	6.59	166	2307	0.81 ug/L	87
79) 1,3-dichloropropane	6.72	76	2614	0.84 ug/L	83
81) dibromochloromethane	6.89	129	1835	0.88 ug/L	87
82) 1,2-dibromoethane	6.99	107	1409	0.81 ug/L	91
83) n-butyl ether	7.44	57	7384	0.71 ug/L	97
84) chlorobenzene	7.39	112	5648	0.87 ug/L	92
85) 1,1,1,2-tetrachloroethane	7.47	131	1904	0.83 ug/L	93
86) ethylbenzene	7.46	91	9989	0.85 ug/L	93
87) m,p-xylene	7.57	106	7969	1.75 ug/L	98
88) o-xylene	7.90	91	7431	0.81 ug/L	100
89) styrene	7.93	104	5608	0.75 ug/L	94
90) bromoform	8.11	173	1102	0.79 ug/L	93
92) isopropylbenzene	8.20	105	9491	0.81 ug/L	99
96) bromobenzene	8.48	156	2543	0.91 ug/L	86
97) 1,1,2,2-tetrachloroethane	8.53	83	1828	0.87 ug/L	84
100) n-propylbenzene	8.54	91	11979	0.85 ug/L	98
101) 2-chlorotoluene	8.63	126	2229	0.82 ug/L #	70
102) 4-chlorotoluene	8.72	126	2408	0.85 ug/L	99
103) 1,3,5-trimethylbenzene	8.69	105	7704	0.81 ug/L	98
104) tert-butylbenzene	8.94	119	7156	0.82 ug/L	96
105) 1,2,4-trimethylbenzene	8.99	105	7938	0.81 ug/L	95
106) sec-butylbenzene	9.12	105	10465	0.80 ug/L	97
107) 1,3-dichlorobenzene	9.24	146	4780	0.87 ug/L	91
108) p-isopropyltoluene	9.24	119	8754	0.77 ug/L	94
109) 1,4-dichlorobenzene	9.32	146	5066	0.92 ug/L	93
110) 1,2,3-trimethylbenzene	9.33	105	7776	0.80 ug/L	93
111) 1,2-dichlorobenzene	9.61	146	4454	0.89 ug/L	97
112) n-butylbenzene	9.56	92	4455	0.76 ug/L	97
114) 1,3,5-trichlorobenzene	10.36	180	3974	0.86 ug/L	98
115) 1,2,4-trichlorobenzene	10.86	180	3576	0.86 ug/L	98
116) hexachlorobutadiene	10.95	225	2423	0.91 ug/L	91
117) naphthalene	11.05	128	6216	0.79 ug/L	96
118) 1,2,3-trichlorobenzene	11.25	180	2996	0.80 ug/L	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

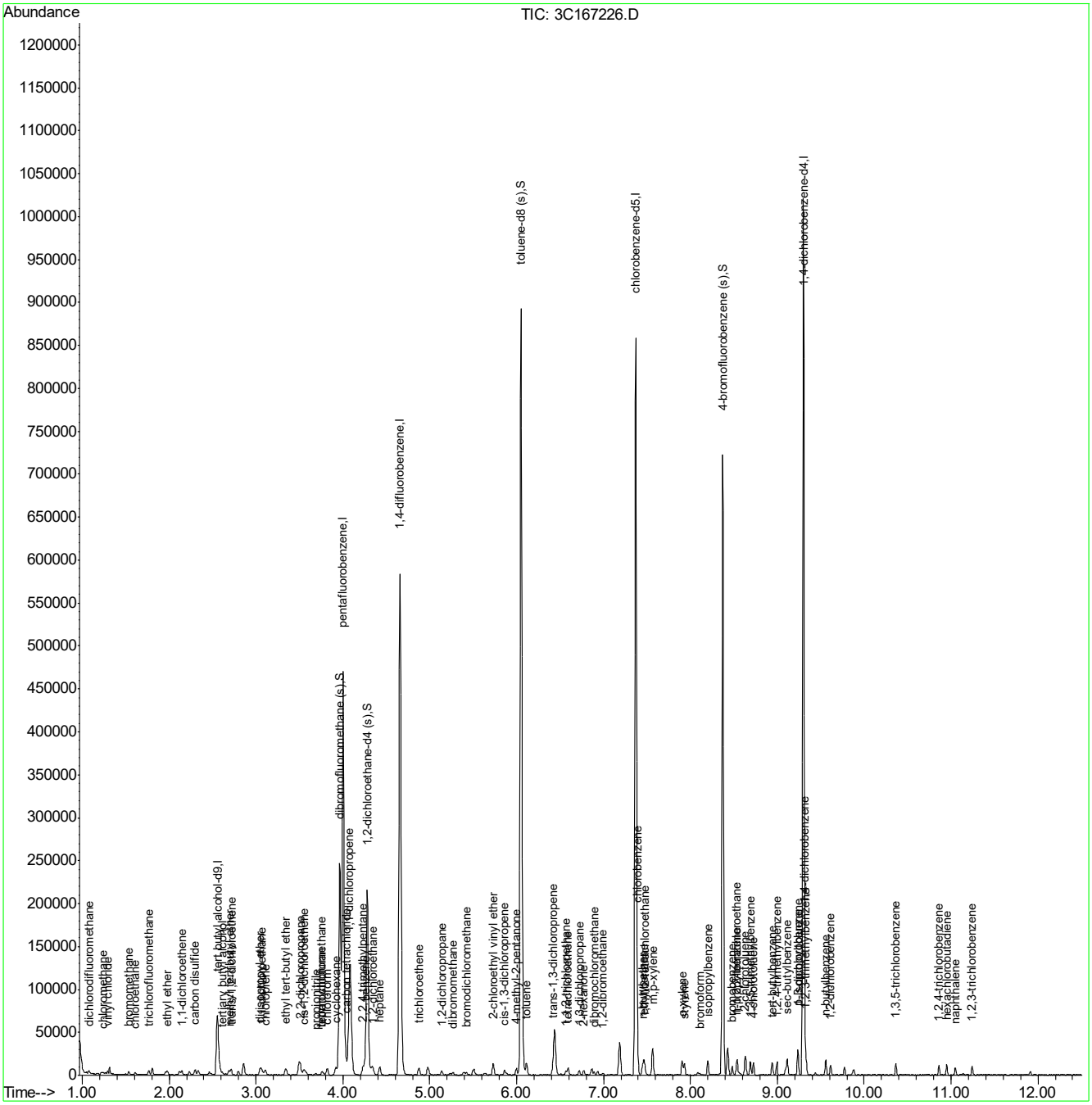
7.7.18

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167226.D
Acq On : 16 Jun 2021 6:12 pm
Operator : PrashanS
Sample : IC7415-1
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 28 17:49:57 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167227.D
Acq On : 16 Jun 2021 6:37 pm
Operator : PrashanS
Sample : IC7415-2
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 28 17:51:31 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) tert butyl alcohol-d9	2.55	65	63165	500.00	ug/L		0.00
5) pentafluorobenzene	4.00	168	285322	50.00	ug/L		0.00
49) 1,4-difluorobenzene	4.66	114	432903	50.00	ug/L		0.00
71) chlorobenzene-d5	7.37	117	378649	50.00	ug/L		0.00
94) 1,4-dichlorobenzene-d4	9.30	152	192677	50.00	ug/L		0.00
System Monitoring Compounds							
42) dibromofluoromethane (s)	3.96	113	123034	49.74	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 99.48%				
50) 1,2-dichloroethane-d4 (s)	4.28	65	129584	50.29	ug/L		0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 100.58%				
72) toluene-d8 (s)	6.05	98	499173	49.53	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.06%				
95) 4-bromofluorobenzene (s)	8.37	95	176206	49.42	ug/L		0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 98.84%				
Target Compounds							Qvalue
3) tertiary butyl alcohol	2.62	59	1372	9.38	ug/L		52
6) dichlorodifluoromethane	1.08	85	6118	1.85	ug/L		93
7) chloromethane	1.22	50	6521	2.01	ug/L		89
9) vinyl chloride	1.29	62	5173	1.70	ug/L		90
10) bromomethane	1.53	94	3801	2.29	ug/L		93
11) chloroethane	1.61	64	3307	1.77	ug/L		94
12) trichlorofluoromethane	1.76	101	6918	1.76	ug/L		98
13) ethyl ether	1.98	74	2245	1.86	ug/L		80
15) freon 113	2.12	151	3544	1.82	ug/L		87
16) 1,1-dichloroethene	2.15	96	3776	1.81	ug/L	#	69
17) acetone	2.23	43	6378	13.70	ug/L		99
20) carbon disulfide	2.30	76	13573	1.89	ug/L		97
21) methylene chloride	2.55	84	4773	2.16	ug/L		98
23) methyl tert butyl ether	2.69	73	10716	2.01	ug/L		96
24) trans-1,2-dichloroethene	2.72	96	4440	1.83	ug/L		92
25) hexane	2.86	57	9350	2.10	ug/L		96
26) di-isopropyl ether	3.05	45	13874	1.81	ug/L		97
27) ethyl tert-butyl ether	3.34	59	12239	1.80	ug/L		98
28) 2-butanone	3.57	72	1295	6.78	ug/L		90
29) 1,1-dichloroethane	3.08	63	7738	1.79	ug/L		99
30) chloroprene	3.11	53	6356	1.69	ug/L		95
34) 2,2-dichloropropane	3.52	77	6166	1.84	ug/L		97
35) cis-1,2-dichloroethene	3.55	96	4842	1.87	ug/L		90
36) propionitrile	3.69	54	4182	19.03	ug/L		88
37) bromochloromethane	3.76	130	2855	2.01	ug/L		98
38) tetrahydrofuran	3.76	42	1074	2.13	ug/L		90
39) chloroform	3.82	83	8618	2.05	ug/L		99
40) tert-butyl formate	3.81	59	1231	1.51	ug/L	#	75
41) isobutyl alcohol	4.23	41	6408	18.20	ug/L		95
43) methacrylonitrile	3.78	67	1253	1.83	ug/L	#	55
44) 1,1,1-trichloroethane	3.93	97	6561	1.72	ug/L		92
45) cyclohexane	3.91	84	7440	1.86	ug/L		97
46) 1,1-dichloropropene	4.08	110	2321	1.82	ug/L	#	79

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167227.D
Acq On : 16 Jun 2021 6:37 pm
Operator : PrashanS
Sample : IC7415-2
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 28 17:51:31 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
48) carbon tetrachloride	4.04	119	5976	1.86 ug/L #	85
51) 2,2,4-trimethylpentane	4.23	57	20513	1.87 ug/L	99
52) tert-amyl methyl ether	4.33	87	3071	1.60 ug/L #	80
54) benzene	4.25	78	18810	1.96 ug/L	97
55) heptane	4.43	57	4409	1.86 ug/L	89
56) isopropyl acetate	4.33	87	3071	1.60 ug/L	90
57) 1,2-dichloroethane	4.35	62	6068	2.14 ug/L	93
58) trichloroethene	4.87	95	5000	1.97 ug/L	88
60) 2-nitropropane	5.72	41	1168	1.75 ug/L #	24
61) 2-chloroethyl vinyl ether	5.73	63	11400	9.29 ug/L	97
63) 1,2-dichloropropane	5.14	63	4248	1.81 ug/L	95
64) methylcyclohexane	4.97	83	8728	1.84 ug/L	98
65) dibromomethane	5.26	93	2388	2.00 ug/L	87
66) bromodichloromethane	5.41	83	5844	1.92 ug/L	95
67) epichlorohydrin	5.82	57	1460	8.85 ug/L	87
68) cis-1,3-dichloropropene	5.86	75	6470	1.70 ug/L	98
69) 4-methyl-2-pentanone	6.01	85	1989	6.84 ug/L #	40
73) toluene	6.11	92	11518	1.87 ug/L	95
74) trans-1,3-dichloropropene	6.41	75	5591	1.81 ug/L	99
76) 1,1,2-trichloroethane	6.57	83	2833	1.86 ug/L	94
77) 2-hexanone	6.77	58	4309	6.69 ug/L	90
78) tetrachloroethene	6.60	166	5241	1.85 ug/L	95
79) 1,3-dichloropropane	6.72	76	6066	1.96 ug/L	97
80) butyl acetate	6.86	56	2460	2.12 ug/L	84
81) dibromochloromethane	6.89	129	3903	1.87 ug/L	96
82) 1,2-dibromoethane	6.99	107	3453	2.00 ug/L	96
83) n-butyl ether	7.44	57	17340	1.68 ug/L	97
84) chlorobenzene	7.40	112	12682	1.97 ug/L	97
85) 1,1,1,2-tetrachloroethane	7.48	131	4052	1.78 ug/L	82
86) ethylbenzene	7.46	91	23289	1.98 ug/L	97
87) m,p-xylene	7.57	106	17486	3.85 ug/L	91
88) o-xylene	7.90	91	17174	1.88 ug/L	93
89) styrene	7.93	104	13396	1.78 ug/L	99
90) bromoform	8.10	173	2712	1.95 ug/L	93
92) isopropylbenzene	8.20	105	21688	1.85 ug/L	97
93) cis-1,4-dichloro-2-butene	8.34	53	1109	1.56 ug/L #	74
96) bromobenzene	8.48	156	5717	2.05 ug/L	93
97) 1,1,2,2-tetrachloroethane	8.53	83	3796	1.80 ug/L	92
99) 1,2,3-trichloropropane	8.56	110	1173	1.87 ug/L	87
100) n-propylbenzene	8.54	91	26664	1.89 ug/L	98
101) 2-chlorotoluene	8.63	126	5477	2.00 ug/L	96
102) 4-chlorotoluene	8.72	126	5397	1.90 ug/L	96
103) 1,3,5-trimethylbenzene	8.69	105	18278	1.92 ug/L	93
104) tert-butylbenzene	8.94	119	16789	1.92 ug/L	97
105) 1,2,4-trimethylbenzene	8.99	105	17847	1.82 ug/L	98
106) sec-butylbenzene	9.12	105	24566	1.87 ug/L	97
107) 1,3-dichlorobenzene	9.24	146	11143	2.03 ug/L	99
108) p-isopropyltoluene	9.24	119	20359	1.79 ug/L	98
109) 1,4-dichlorobenzene	9.32	146	10922	1.97 ug/L	93
110) 1,2,3-trimethylbenzene	9.33	105	18142	1.86 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167227.D
Acq On : 16 Jun 2021 6:37 pm
Operator : PrashanS
Sample : IC7415-2
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 28 17:51:31 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration

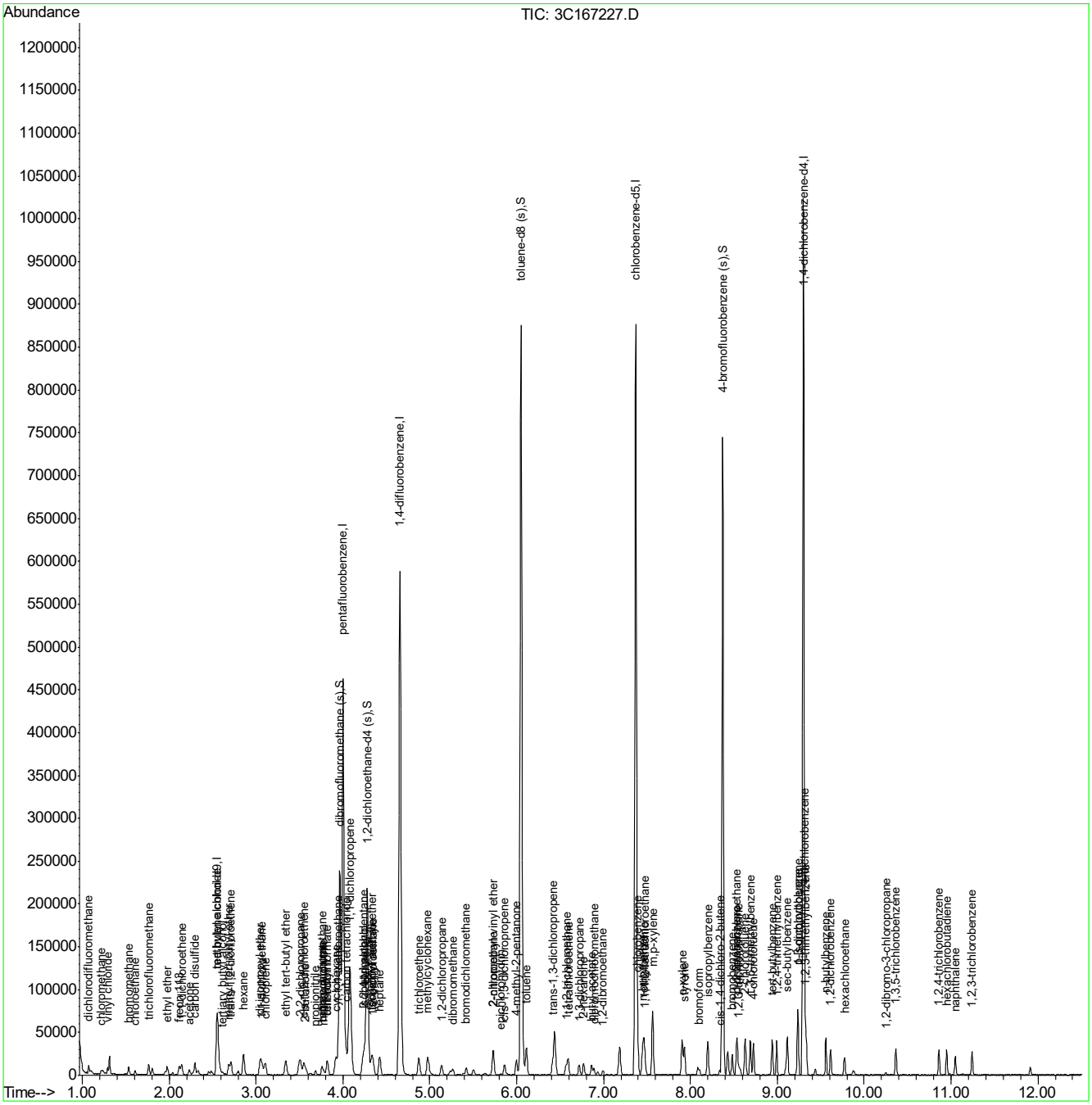
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
111) 1,2-dichlorobenzene	9.61	146	9973	1.98 ug/L	95
112) n-butylbenzene	9.56	92	10027	1.71 ug/L	98
113) 1,2-dibromo-3-chloropropan	10.25	157	854	1.71 ug/L	87
114) 1,3,5-trichlorobenzene	10.36	180	8869	1.92 ug/L	97
115) 1,2,4-trichlorobenzene	10.86	180	8114	1.94 ug/L	98
116) hexachlorobutadiene	10.95	225	5153	1.93 ug/L	94
117) naphthalene	11.05	128	13893	1.76 ug/L	98
118) 1,2,3-trichlorobenzene	11.24	180	7434	1.97 ug/L	95
119) hexachloroethane	9.77	201	2520	1.45 ug/L	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167227.D
Acq On : 16 Jun 2021 6:37 pm
Operator : PrashanS
Sample : IC7415-2
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 28 17:51:31 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167228.D
Acq On : 16 Jun 2021 7:02 pm
Operator : PrashanS
Sample : IC7415-4
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 28 17:52:33 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	2.56	65	61434	500.00	ug/L	0.00
5) pentafluorobenzene	4.00	168	287543	50.00	ug/L	0.00
49) 1,4-difluorobenzene	4.66	114	441460	50.00	ug/L	0.00
71) chlorobenzene-d5	7.37	117	380774	50.00	ug/L	0.00
94) 1,4-dichlorobenzene-d4	9.30	152	194857	50.00	ug/L	0.00
System Monitoring Compounds						
42) dibromofluoromethane (s)	3.96	113	123868	49.69	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 99.38%			
50) 1,2-dichloroethane-d4 (s)	4.28	65	131162	49.92	ug/L	0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 99.84%			
72) toluene-d8 (s)	6.05	98	502319	49.57	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.14%			
95) 4-bromofluorobenzene (s)	8.37	95	177366	49.19	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 98.38%			
Target Compounds						Qvalue
3) tertiary butyl alcohol	2.62	59	2336	16.43	ug/L	86
4) 1,4-dioxane	5.27	88	1342	64.97	ug/L	96
6) dichlorodifluoromethane	1.08	85	9894	2.97	ug/L	96
7) chloromethane	1.22	50	10861	3.32	ug/L	98
8) 1,3-butadiene	1.31	54	6911	2.84	ug/L	98
9) vinyl chloride	1.29	62	9128	2.97	ug/L	99
10) bromomethane	1.54	94	5994	3.59	ug/L	99
11) chloroethane	1.61	64	5178	2.75	ug/L	98
12) trichlorofluoromethane	1.76	101	11241	2.84	ug/L	94
13) ethyl ether	1.98	74	3891	3.21	ug/L #	80
15) freon 113	2.12	151	5885	3.01	ug/L	95
16) 1,1-dichloroethene	2.15	96	6032	2.88	ug/L	94
17) acetone	2.23	43	8164	17.40	ug/L	89
18) acetonitrile	2.49	41	6560	33.73	ug/L	85
19) iodomethane	2.28	142	4946	1.74	ug/L	99
20) carbon disulfide	2.30	76	23080	3.19	ug/L	99
21) methylene chloride	2.55	84	7377	3.31	ug/L	90
22) methyl acetate	2.45	43	5397	4.27	ug/L	84
23) methyl tert butyl ether	2.69	73	16701	3.11	ug/L	94
24) trans-1,2-dichloroethene	2.72	96	7233	2.96	ug/L	97
25) hexane	2.86	57	13717	3.05	ug/L	92
26) di-isopropyl ether	3.05	45	23789	3.09	ug/L	94
27) ethyl tert-butyl ether	3.34	59	21323	3.11	ug/L	93
28) 2-butanone	3.57	72	2004	10.41	ug/L #	58
29) 1,1-dichloroethane	3.07	63	13792	3.17	ug/L	97
30) chloroprene	3.11	53	11255	2.98	ug/L	95
31) acrylonitrile	2.78	53	1441	2.86	ug/L	86
32) vinyl acetate	3.10	86	1102	2.55	ug/L #	87
33) ethyl acetate	3.58	45	724	2.50	ug/L	78
34) 2,2-dichloropropane	3.52	77	9671	2.86	ug/L	96
35) cis-1,2-dichloroethene	3.55	96	7865	3.02	ug/L	95
36) propionitrile	3.68	54	7164	32.36	ug/L	94
37) bromochloromethane	3.76	130	4872	3.40	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167228.D
Acq On : 16 Jun 2021 7:02 pm
Operator : PrashanS
Sample : IC7415-4
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 28 17:52:33 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
38) tetrahydrofuran	3.76	42	1867	3.68	ug/L		80
39) chloroform	3.82	83	14536	3.43	ug/L		97
40) tert-butyl formate	3.82	59	2159	2.63	ug/L		81
41) isobutyl alcohol	4.23	41	10784	30.39	ug/L		90
43) methacrylonitrile	3.78	67	2201	3.20	ug/L		92
44) 1,1,1-trichloroethane	3.93	97	11056	2.87	ug/L		91
45) cyclohexane	3.92	84	11722	2.90	ug/L		99
46) 1,1-dichloropropene	4.08	110	3931	3.07	ug/L		94
47) tert-amyl alcohol	4.29	59	1609	14.25	ug/L		79
48) carbon tetrachloride	4.04	119	10737	3.32	ug/L		91
51) 2,2,4-trimethylpentane	4.23	57	32983	2.94	ug/L		96
52) tert-amyl methyl ether	4.33	87	5796	2.97	ug/L	#	85
53) n-butyl alcohol	4.87	56	5658	122.29	ug/L		95
54) benzene	4.25	78	32160	3.29	ug/L		95
55) heptane	4.43	57	6975	2.89	ug/L		96
56) isopropyl acetate	4.33	87	5796	2.97	ug/L	#	58
57) 1,2-dichloroethane	4.35	62	9845	3.40	ug/L		96
58) trichloroethene	4.87	95	8419	3.25	ug/L		93
60) 2-nitropropane	5.71	41	2187	3.22	ug/L	#	1
61) 2-chloroethyl vinyl ether	5.73	63	18469	14.75	ug/L		97
63) 1,2-dichloropropane	5.14	63	7501	3.14	ug/L		94
64) methylcyclohexane	4.97	83	14183	2.93	ug/L		94
65) dibromomethane	5.27	93	3837	3.15	ug/L		97
66) bromodichloromethane	5.42	83	9854	3.18	ug/L		96
67) epichlorohydrin	5.82	57	2183	12.97	ug/L		92
68) cis-1,3-dichloropropene	5.86	75	11058	2.85	ug/L		99
69) 4-methyl-2-pentanone	6.00	85	3284	11.08	ug/L	#	68
70) 3-methyl-1-butanol	6.08	55	2666	40.49	ug/L	#	66
73) toluene	6.12	92	20393	3.29	ug/L		90
74) trans-1,3-dichloropropene	6.41	75	8948	2.88	ug/L		96
76) 1,1,2-trichloroethane	6.57	83	5024	3.28	ug/L		90
77) 2-hexanone	6.77	58	7023	10.85	ug/L	#	85
78) tetrachloroethene	6.60	166	9064	3.18	ug/L		91
79) 1,3-dichloropropane	6.72	76	10166	3.26	ug/L		95
80) butyl acetate	6.86	56	3561	3.05	ug/L		90
81) dibromochloromethane	6.89	129	6577	3.13	ug/L		97
82) 1,2-dibromoethane	6.99	107	5468	3.14	ug/L		89
83) n-butyl ether	7.44	57	29777	2.87	ug/L		95
84) chlorobenzene	7.39	112	21987	3.39	ug/L		98
85) 1,1,1,2-tetrachloroethane	7.48	131	7125	3.11	ug/L		91
86) ethylbenzene	7.46	91	38246	3.23	ug/L		100
87) m,p-xylene	7.57	106	29107	6.37	ug/L		97
88) o-xylene	7.90	91	28953	3.16	ug/L		98
89) styrene	7.93	104	23347	3.09	ug/L		100
90) bromoform	8.11	173	4166	2.97	ug/L		92
91) butyl acrylate	7.90	55	8304	2.34	ug/L		93
92) isopropylbenzene	8.20	105	38459	3.26	ug/L		99
93) cis-1,4-dichloro-2-butene	8.34	53	2118	2.96	ug/L		93
96) bromobenzene	8.48	156	9416	3.33	ug/L		84
97) 1,1,2,2-tetrachloroethane	8.53	83	6646	3.12	ug/L		81

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167228.D
Acq On : 16 Jun 2021 7:02 pm
Operator : PrashanS
Sample : IC7415-4
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 28 17:52:33 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration

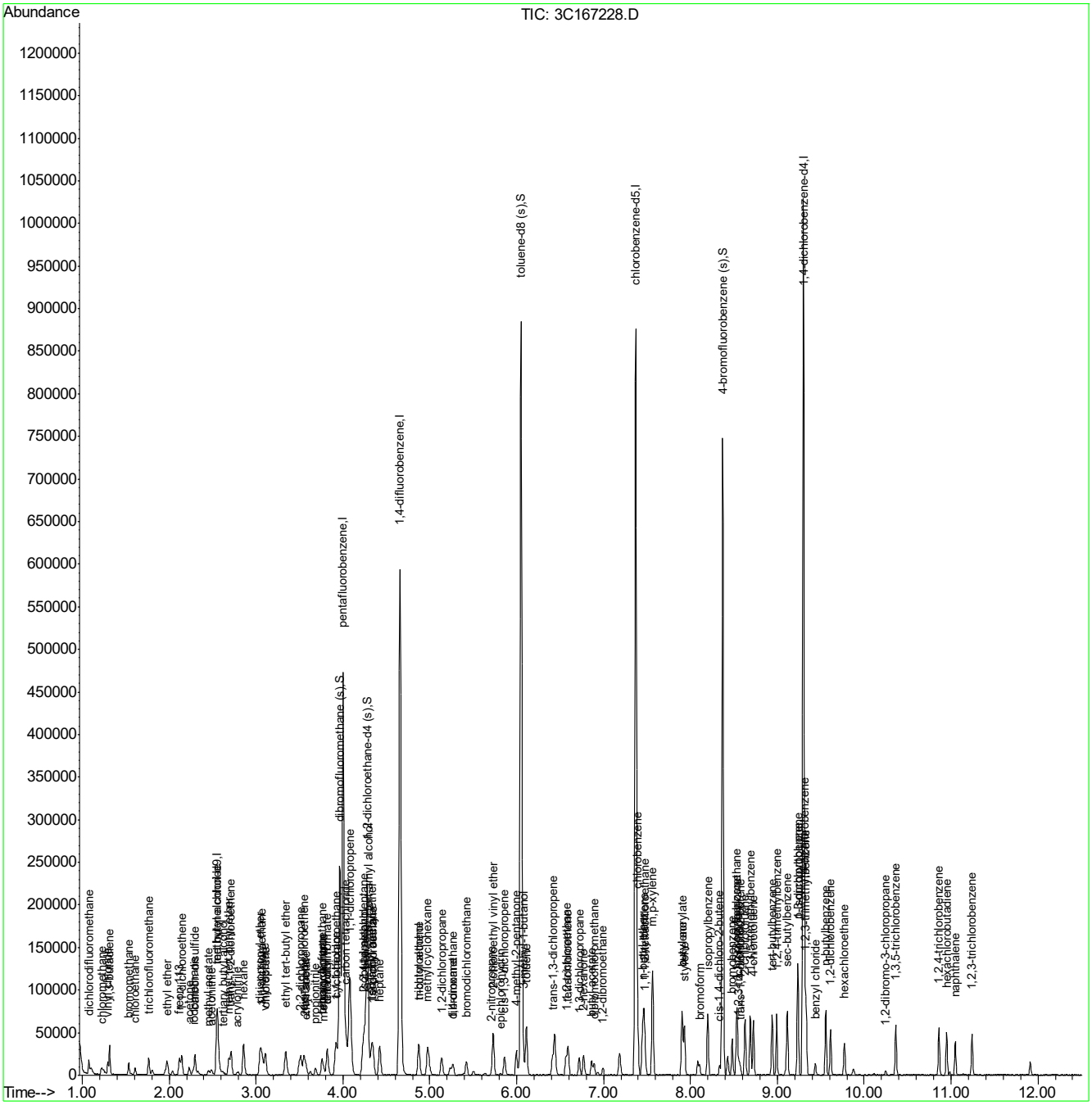
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
98) trans-1,4-dichloro-2-buten	8.58	88	801	2.60 ug/L #	83
99) 1,2,3-trichloropropane	8.56	110	1881	2.97 ug/L	93
100) n-propylbenzene	8.54	91	45619	3.19 ug/L	96
101) 2-chlorotoluene	8.63	126	8921	3.23 ug/L	97
102) 4-chlorotoluene	8.72	126	9781	3.40 ug/L	91
103) 1,3,5-trimethylbenzene	8.69	105	30549	3.17 ug/L	97
104) tert-butylbenzene	8.94	119	27146	3.07 ug/L	95
105) 1,2,4-trimethylbenzene	8.99	105	30918	3.11 ug/L	98
106) sec-butylbenzene	9.12	105	41030	3.09 ug/L	99
107) 1,3-dichlorobenzene	9.24	146	18565	3.35 ug/L	95
108) p-isopropyltoluene	9.23	119	35157	3.05 ug/L	97
109) 1,4-dichlorobenzene	9.32	146	19237	3.43 ug/L	95
110) 1,2,3-trimethylbenzene	9.33	105	30992	3.14 ug/L	98
111) 1,2-dichlorobenzene	9.61	146	16702	3.28 ug/L	98
112) n-butylbenzene	9.56	92	17733	2.99 ug/L	96
113) 1,2-dibromo-3-chloropropan	10.25	157	1453	2.88 ug/L	87
114) 1,3,5-trichlorobenzene	10.36	180	14980	3.21 ug/L	98
115) 1,2,4-trichlorobenzene	10.86	180	14068	3.33 ug/L	95
116) hexachlorobutadiene	10.95	225	8214	3.04 ug/L	94
117) naphthalene	11.05	128	23478	2.94 ug/L	96
118) 1,2,3-trichlorobenzene	11.24	180	12422	3.26 ug/L	94
119) hexachloroethane	9.78	201	4840	2.75 ug/L	92
120) benzyl chloride	9.44	91	8318	2.22 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167228.D
Acq On : 16 Jun 2021 7:02 pm
Operator : PrashanS
Sample : IC7415-4
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 28 17:52:33 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167229.D
Acq On : 16 Jun 2021 7:27 pm
Operator : PrashanS
Sample : IC7415-8
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 18 17:46:20 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	2.56	65	60912	500.00	ug/L	0.00
5) pentafluorobenzene	4.00	168	281381	50.00	ug/L	0.00
49) 1,4-difluorobenzene	4.66	114	434153	50.00	ug/L	0.00
71) chlorobenzene-d5	7.37	117	373503	50.00	ug/L	0.00
94) 1,4-dichlorobenzene-d4	9.30	152	191358	50.00	ug/L	0.00
System Monitoring Compounds						
42) dibromofluoromethane (s)	3.96	113	122430	50.18	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 100.36%			
50) 1,2-dichloroethane-d4 (s)	4.28	65	129999	50.31	ug/L	0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 100.62%			
72) toluene-d8 (s)	6.05	98	495777	49.87	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.74%			
95) 4-bromofluorobenzene (s)	8.37	95	176368	49.81	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 99.62%			
Target Compounds						Qvalue
3) tertiary butyl alcohol	2.62	59	4279	30.35	ug/L	93
4) 1,4-dioxane	5.26	88	3059	149.36	ug/L	77
6) dichlorodifluoromethane	1.08	85	18256	5.60	ug/L	99
7) chloromethane	1.22	50	19790	6.19	ug/L	97
8) 1,3-butadiene	1.31	54	13546	5.69	ug/L	99
9) vinyl chloride	1.29	62	17563	5.85	ug/L	95
10) bromomethane	1.54	94	11377	6.96	ug/L	97
11) chloroethane	1.61	64	11151	6.06	ug/L	95
12) trichlorofluoromethane	1.76	101	21754	5.62	ug/L	100
13) ethyl ether	1.98	74	7325	6.17	ug/L	95
14) acrolein	2.12	56	1279	4.71	ug/L	83
15) freon 113	2.12	151	11341	5.92	ug/L	97
16) 1,1-dichloroethene	2.15	96	12347	6.02	ug/L	88
17) acetone	2.23	43	12567	27.38	ug/L	95
18) acetonitrile	2.49	41	12008	63.10	ug/L	95
19) iodomethane	2.28	142	10934	3.93	ug/L	95
20) carbon disulfide	2.30	76	44713	6.32	ug/L	99
21) methylene chloride	2.55	84	14567	6.68	ug/L	99
22) methyl acetate	2.45	43	8615	6.96	ug/L	94
23) methyl tert butyl ether	2.69	73	33397	6.35	ug/L	98
24) trans-1,2-dichloroethene	2.72	96	14783	6.19	ug/L	97
25) hexane	2.86	57	26096	5.94	ug/L	98
26) di-isopropyl ether	3.05	45	46201	6.12	ug/L	96
27) ethyl tert-butyl ether	3.34	59	40564	6.05	ug/L	97
28) 2-butanone	3.57	72	4734	25.13	ug/L #	77
29) 1,1-dichloroethane	3.07	63	26628	6.25	ug/L	95
30) chloroprene	3.11	53	21605	5.84	ug/L	97
31) acrylonitrile	2.77	53	3089	6.26	ug/L	92
32) vinyl acetate	3.09	86	2385	5.65	ug/L #	90
33) ethyl acetate	3.58	45	1496	5.28	ug/L	88
34) 2,2-dichloropropane	3.52	77	19122	5.79	ug/L	94
35) cis-1,2-dichloroethene	3.55	96	15414	6.05	ug/L	95
36) propionitrile	3.68	54	13459	62.12	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167229.D
Acq On : 16 Jun 2021 7:27 pm
Operator : PrashanS
Sample : IC7415-8
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 18 17:46:20 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) bromochloromethane	3.76	130	8869	6.33	ug/L		99
38) tetrahydrofuran	3.76	42	3497	7.04	ug/L		90
39) chloroform	3.82	83	27312	6.59	ug/L		98
40) tert-butyl formate	3.83	59	4370	5.45	ug/L		84
41) isobutyl alcohol	4.24	41	19850	57.16	ug/L		90
43) methacrylonitrile	3.78	67	4353	6.46	ug/L	#	78
44) 1,1,1-trichloroethane	3.93	97	22085	5.87	ug/L		97
45) cyclohexane	3.91	84	21807	5.52	ug/L		96
46) 1,1-dichloropropene	4.08	110	7643	6.09	ug/L		96
47) tert-amyl alcohol	4.29	59	3161	28.60	ug/L	#	75
48) carbon tetrachloride	4.05	119	19723	6.23	ug/L		96
51) 2,2,4-trimethylpentane	4.24	57	64146	5.82	ug/L		95
52) tert-amyl methyl ether	4.33	87	10950	5.70	ug/L	#	81
53) n-butyl alcohol	4.87	56	11489	252.50	ug/L		88
54) benzene	4.25	78	60877	6.33	ug/L		97
55) heptane	4.43	57	13186	5.55	ug/L		98
56) isopropyl acetate	4.33	87	10950	5.70	ug/L	#	77
57) 1,2-dichloroethane	4.35	62	19280	6.77	ug/L		92
58) trichloroethene	4.88	95	15885	6.23	ug/L		97
60) 2-nitropropane	5.72	41	4120	6.16	ug/L	#	88
61) 2-chloroethyl vinyl ether	5.73	63	37430	30.40	ug/L		97
62) methyl methacrylate	5.24	100	2566	5.15	ug/L		92
63) 1,2-dichloropropane	5.14	63	15001	6.39	ug/L		94
64) methylcyclohexane	4.97	83	28343	5.96	ug/L		97
65) dibromomethane	5.27	93	7798	6.51	ug/L		96
66) bromodichloromethane	5.42	83	19367	6.36	ug/L		96
67) epichlorohydrin	5.81	57	4916	29.71	ug/L		93
68) cis-1,3-dichloropropene	5.86	75	22674	5.94	ug/L		99
69) 4-methyl-2-pentanone	5.99	85	6595	22.63	ug/L		98
70) 3-methyl-1-butanol	6.08	55	5949	91.87	ug/L		82
73) toluene	6.11	92	38651	6.36	ug/L		98
74) trans-1,3-dichloropropene	6.41	75	17779	5.84	ug/L		96
75) ethyl methacrylate	6.43	69	13653	5.72	ug/L		98
76) 1,1,2-trichloroethane	6.56	83	9418	6.28	ug/L		96
77) 2-hexanone	6.77	58	14745	23.22	ug/L		93
78) tetrachloroethene	6.60	166	17501	6.25	ug/L		96
79) 1,3-dichloropropane	6.72	76	20168	6.59	ug/L		96
80) butyl acetate	6.86	56	6543	5.71	ug/L		96
81) dibromochloromethane	6.89	129	13268	6.44	ug/L		95
82) 1,2-dibromoethane	6.99	107	10891	6.38	ug/L		92
83) n-butyl ether	7.44	57	60014	5.89	ug/L		100
84) chlorobenzene	7.40	112	41691	6.55	ug/L		98
85) 1,1,1,2-tetrachloroethane	7.48	131	13747	6.12	ug/L		97
86) ethylbenzene	7.46	91	74764	6.44	ug/L		98
87) m,p-xylene	7.57	106	57748	12.89	ug/L		100
88) o-xylene	7.90	91	57349	6.38	ug/L		100
89) styrene	7.93	104	47015	6.35	ug/L		98
90) bromoform	8.11	173	8564	6.23	ug/L		98
91) butyl acrylate	7.90	55	17669	5.08	ug/L		97
92) isopropylbenzene	8.20	105	73032	6.31	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167229.D
Acq On : 16 Jun 2021 7:27 pm
Operator : PrashanS
Sample : IC7415-8
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 18 17:46:20 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration

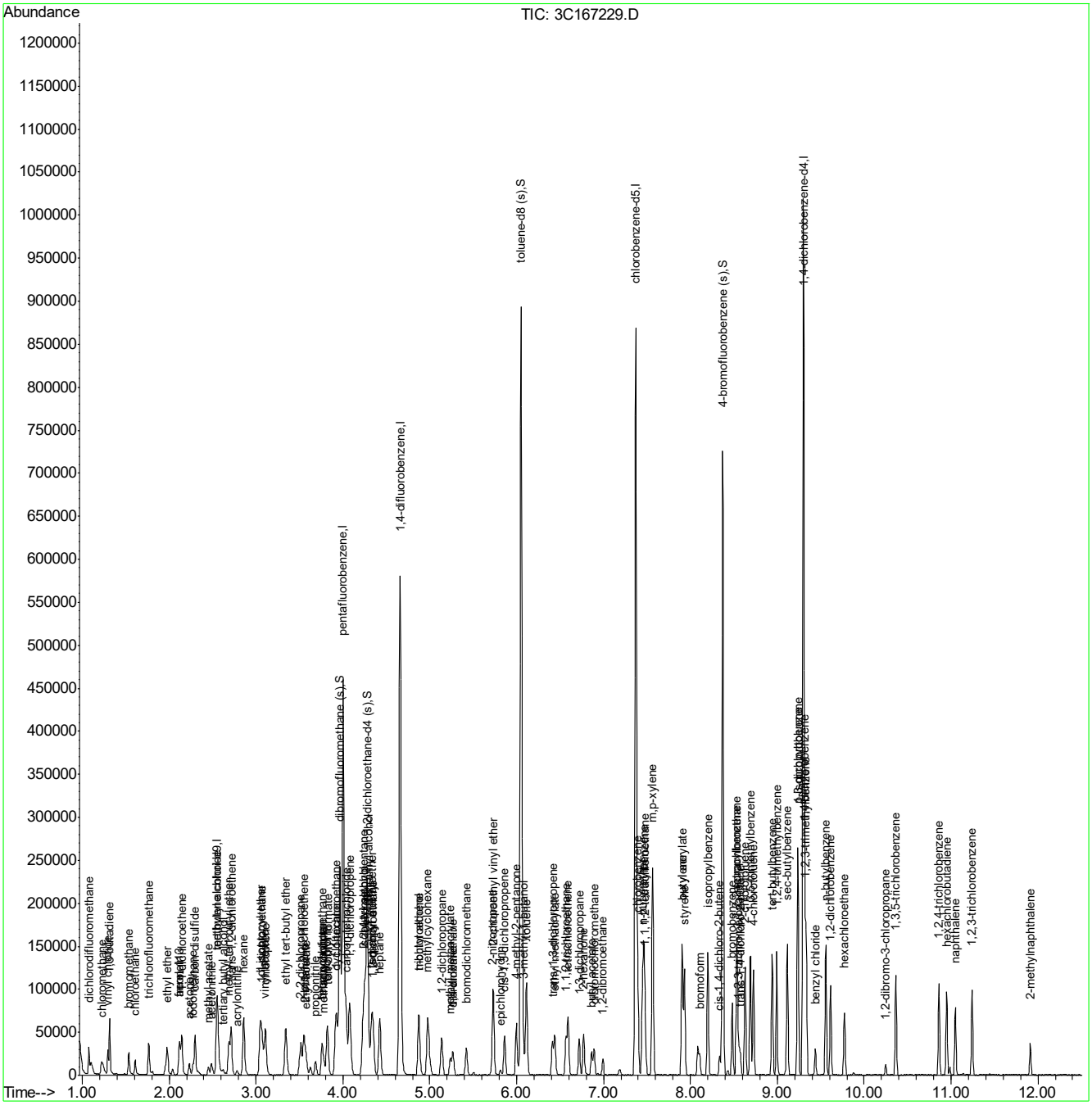
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
93) cis-1,4-dichloro-2-butene	8.33	53	4219	6.02 ug/L #	81
96) bromobenzene	8.48	156	18011	6.49 ug/L	99
97) 1,1,2,2-tetrachloroethane	8.53	83	13155	6.28 ug/L	94
98) trans-1,4-dichloro-2-buten	8.58	88	1605	5.30 ug/L	93
99) 1,2,3-trichloropropane	8.56	110	3837	6.17 ug/L	99
100) n-propylbenzene	8.54	91	88233	6.29 ug/L	97
101) 2-chlorotoluene	8.63	126	17469	6.43 ug/L	95
102) 4-chlorotoluene	8.72	126	18192	6.45 ug/L	94
103) 1,3,5-trimethylbenzene	8.69	105	60573	6.39 ug/L	99
104) tert-butylbenzene	8.94	119	53958	6.21 ug/L	99
105) 1,2,4-trimethylbenzene	8.99	105	60326	6.19 ug/L	98
106) sec-butylbenzene	9.12	105	79899	6.13 ug/L	100
107) 1,3-dichlorobenzene	9.24	146	36086	6.62 ug/L	96
108) p-isopropyltoluene	9.24	119	70578	6.24 ug/L	96
109) 1,4-dichlorobenzene	9.32	146	36194	6.57 ug/L	97
110) 1,2,3-trimethylbenzene	9.33	105	61888	6.39 ug/L	97
111) 1,2-dichlorobenzene	9.62	146	33025	6.61 ug/L	93
112) n-butylbenzene	9.56	92	35880	6.15 ug/L	98
113) 1,2-dibromo-3-chloropropan	10.25	157	2901	5.86 ug/L	94
114) 1,3,5-trichlorobenzene	10.36	180	29093	6.35 ug/L	99
115) 1,2,4-trichlorobenzene	10.86	180	26099	6.30 ug/L	97
116) hexachlorobutadiene	10.95	225	16141	6.09 ug/L	96
117) naphthalene	11.05	128	46135	5.88 ug/L	99
118) 1,2,3-trichlorobenzene	11.25	180	24563	6.57 ug/L	99
119) hexachloroethane	9.78	201	9255	5.35 ug/L	92
120) benzyl chloride	9.44	91	17052	4.64 ug/L	96
121) 2-methylnaphthalene	11.91	142	13824	2.73 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167229.D
Acq On : 16 Jun 2021 7:27 pm
Operator : PrashanS
Sample : IC7415-8
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 18 17:46:20 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167230.D
Acq On : 16 Jun 2021 7:52 pm
Operator : PrashanS
Sample : IC7415-20
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 18 17:46:27 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	2.56	65	60704	500.00	ug/L	0.00
5) pentafluorobenzene	4.00	168	283078	50.00	ug/L	0.00
49) 1,4-difluorobenzene	4.66	114	441785	50.00	ug/L	0.00
71) chlorobenzene-d5	7.37	117	383137	50.00	ug/L	0.00
94) 1,4-dichlorobenzene-d4	9.30	152	191272	50.00	ug/L	0.00
System Monitoring Compounds						
42) dibromofluoromethane (s)	3.96	113	122177	49.78	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 99.56%			
50) 1,2-dichloroethane-d4 (s)	4.28	65	129433	49.22	ug/L	0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 98.44%			
72) toluene-d8 (s)	6.05	98	506302	49.65	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.30%			
95) 4-bromofluorobenzene (s)	8.37	95	179386	50.68	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 101.36%			
Target Compounds						Qvalue
3) tertiary butyl alcohol	2.62	59	13267	94.41	ug/L	98
4) 1,4-dioxane	5.26	88	9278	454.56	ug/L	90
6) dichlorodifluoromethane	1.08	85	62167	18.96	ug/L	99
7) chloromethane	1.22	50	61581	19.14	ug/L	100
8) 1,3-butadiene	1.31	54	42858	17.90	ug/L	100
9) vinyl chloride	1.29	62	57176	18.92	ug/L	98
10) bromomethane	1.53	94	33237	20.21	ug/L	98
11) chloroethane	1.61	64	34690	18.75	ug/L	98
12) trichlorofluoromethane	1.76	101	71848	18.45	ug/L	98
13) ethyl ether	1.98	74	22142	18.54	ug/L	96
14) acrolein	2.12	56	4730	17.31	ug/L	97
15) freon 113	2.12	151	35041	18.18	ug/L	97
16) 1,1-dichloroethene	2.15	96	37178	18.01	ug/L	99
17) acetone	2.23	43	36942	80.00	ug/L	96
18) acetonitrile	2.49	41	38117	199.09	ug/L	98
19) iodomethane	2.28	142	44365	15.85	ug/L	97
20) carbon disulfide	2.30	76	132525	18.62	ug/L	97
21) methylene chloride	2.55	84	42213	19.23	ug/L	99
22) methyl acetate	2.45	43	25533	20.50	ug/L	98
23) methyl tert butyl ether	2.69	73	100350	18.96	ug/L	98
24) trans-1,2-dichloroethene	2.72	96	44768	18.64	ug/L	100
25) hexane	2.86	57	80560	18.21	ug/L	98
26) di-isopropyl ether	3.05	45	143750	18.94	ug/L	99
27) ethyl tert-butyl ether	3.34	59	126095	18.69	ug/L	96
28) 2-butanone	3.57	72	14203	74.95	ug/L	99
29) 1,1-dichloroethane	3.07	63	80029	18.69	ug/L	97
30) chloroprene	3.11	53	67337	18.09	ug/L	96
31) acrylonitrile	2.78	53	9403	18.94	ug/L	93
32) vinyl acetate	3.10	86	7864	18.52	ug/L #	77
33) ethyl acetate	3.58	45	5226	18.34	ug/L	95
34) 2,2-dichloropropane	3.52	77	59706	17.96	ug/L	97
35) cis-1,2-dichloroethene	3.55	96	48875	19.06	ug/L	98
36) propionitrile	3.68	54	41853	192.01	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167230.D
Acq On : 16 Jun 2021 7:52 pm
Operator : PrashanS
Sample : IC7415-20
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 18 17:46:27 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) bromochloromethane	3.76	130	26927	19.10	ug/L		98
38) tetrahydrofuran	3.76	42	9752	19.52	ug/L		97
39) chloroform	3.82	83	78888	18.91	ug/L		99
40) tert-butyl formate	3.82	59	14513	17.98	ug/L		93
41) isobutyl alcohol	4.24	41	63641	182.16	ug/L		96
43) methacrylonitrile	3.78	67	13214	19.50	ug/L		95
44) 1,1,1-trichloroethane	3.93	97	69266	18.29	ug/L		98
45) cyclohexane	3.92	84	73082	18.39	ug/L		99
46) 1,1-dichloropropene	4.08	110	22632	17.93	ug/L		97
47) tert-amyl alcohol	4.29	59	10631	95.61	ug/L		99
48) carbon tetrachloride	4.04	119	58733	18.45	ug/L		98
51) 2,2,4-trimethylpentane	4.23	57	201806	17.98	ug/L		98
52) tert-amyl methyl ether	4.33	87	35745	18.29	ug/L	#	86
53) n-butyl alcohol	4.87	56	39365	850.20	ug/L		95
54) benzene	4.26	78	180574	18.45	ug/L		98
55) heptane	4.42	57	42821	17.70	ug/L		96
56) isopropyl acetate	4.33	87	35745	18.29	ug/L	#	84
57) 1,2-dichloroethane	4.35	62	55772	19.26	ug/L		97
58) trichloroethene	4.87	95	46975	18.11	ug/L		98
60) 2-nitropropane	5.71	41	12879	18.93	ug/L	#	21
61) 2-chloroethyl vinyl ether	5.73	63	116607	93.07	ug/L		99
62) methyl methacrylate	5.24	100	8984	17.71	ug/L		91
63) 1,2-dichloropropane	5.14	63	44599	18.67	ug/L		99
64) methylcyclohexane	4.97	83	87284	18.03	ug/L		99
65) dibromomethane	5.26	93	22899	18.80	ug/L		95
66) bromodichloromethane	5.42	83	57457	18.53	ug/L		97
67) epichlorohydrin	5.81	57	14767	87.69	ug/L		97
68) cis-1,3-dichloropropene	5.86	75	68887	17.74	ug/L		97
69) 4-methyl-2-pentanone	6.00	85	21830	73.61	ug/L	#	85
70) 3-methyl-1-butanol	6.08	55	22794	345.92	ug/L		91
73) toluene	6.11	92	115585	18.53	ug/L		98
74) trans-1,3-dichloropropene	6.41	75	56253	18.02	ug/L		97
75) ethyl methacrylate	6.43	69	44311	18.10	ug/L		96
76) 1,1,2-trichloroethane	6.57	83	29188	18.96	ug/L		96
77) 2-hexanone	6.77	58	48498	74.45	ug/L		95
78) tetrachloroethene	6.60	166	52896	18.42	ug/L		99
79) 1,3-dichloropropane	6.72	76	59832	19.07	ug/L		98
80) butyl acetate	6.86	56	21850	18.59	ug/L		96
81) dibromochloromethane	6.89	129	39495	18.68	ug/L		94
82) 1,2-dibromoethane	6.99	107	33213	18.98	ug/L		96
83) n-butyl ether	7.44	57	191110	18.27	ug/L		99
84) chlorobenzene	7.39	112	123531	18.93	ug/L		97
85) 1,1,1,2-tetrachloroethane	7.48	131	42508	18.44	ug/L		97
86) ethylbenzene	7.46	91	223291	18.75	ug/L		99
87) m,p-xylene	7.57	106	172189	37.47	ug/L		98
88) o-xylene	7.90	91	174799	18.95	ug/L		99
89) styrene	7.93	104	142798	18.80	ug/L		99
90) bromoform	8.11	173	25603	18.17	ug/L		91
91) butyl acrylate	7.90	55	60725	17.02	ug/L		98
92) isopropylbenzene	8.20	105	222898	18.78	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167230.D
Acq On : 16 Jun 2021 7:52 pm
Operator : PrashanS
Sample : IC7415-20
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 18 17:46:27 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration

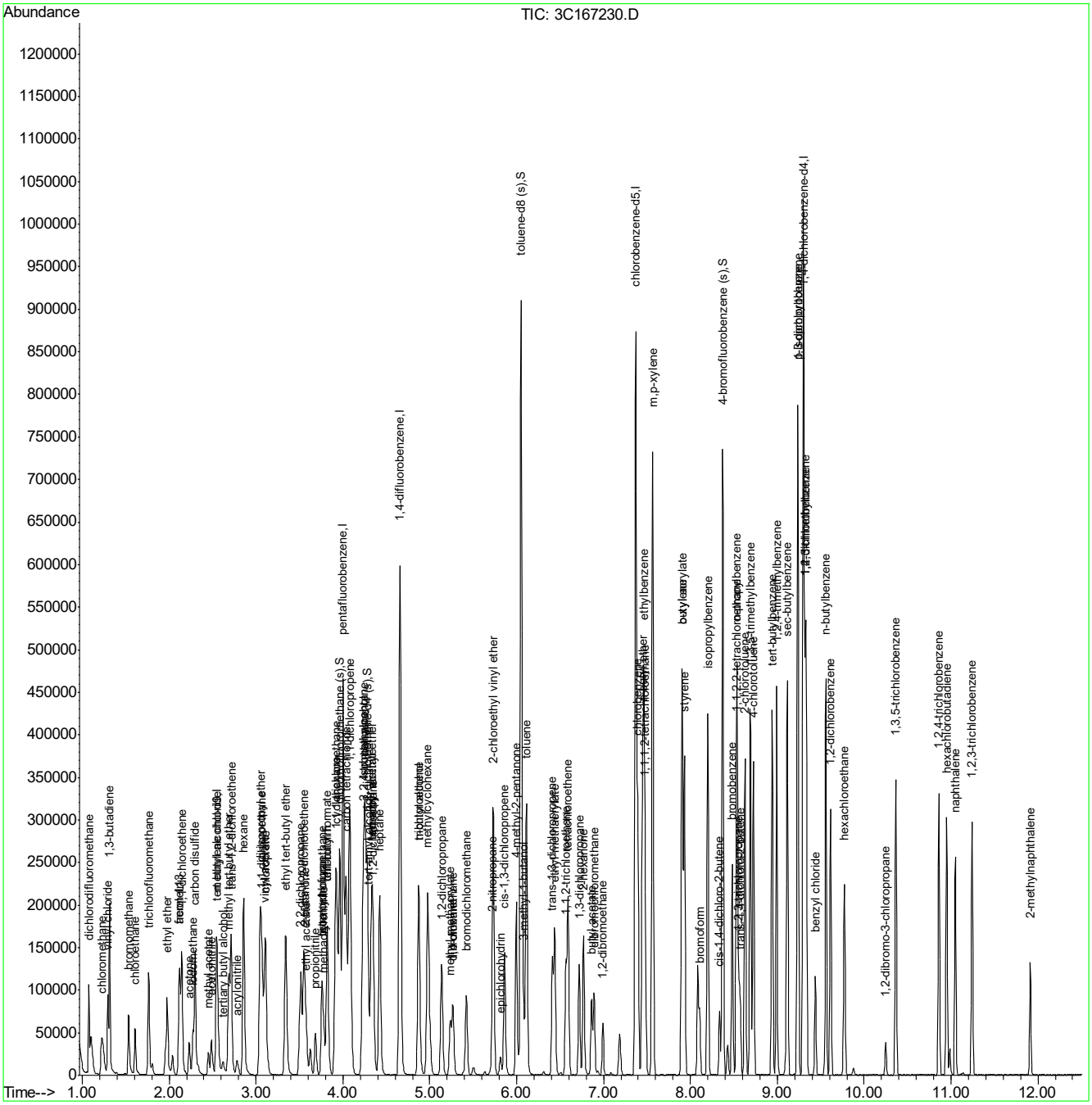
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) cis-1,4-dichloro-2-butene	8.34	53	13021	18.11	ug/L	95
96) bromobenzene	8.48	156	52841	19.05	ug/L	95
97) 1,1,2,2-tetrachloroethane	8.53	83	40252	19.23	ug/L	98
98) trans-1,4-dichloro-2-buten	8.58	88	5451	18.01	ug/L	91
99) 1,2,3-trichloropropane	8.56	110	12275	19.76	ug/L	97
100) n-propylbenzene	8.54	91	263689	18.80	ug/L	99
101) 2-chlorotoluene	8.63	126	52173	19.22	ug/L	98
102) 4-chlorotoluene	8.72	126	53659	19.02	ug/L	97
103) 1,3,5-trimethylbenzene	8.69	105	178687	18.87	ug/L	100
104) tert-butylbenzene	8.94	119	162476	18.72	ug/L	100
105) 1,2,4-trimethylbenzene	8.99	105	184025	18.88	ug/L	99
106) sec-butylbenzene	9.12	105	245344	18.82	ug/L	99
107) 1,3-dichlorobenzene	9.24	146	105522	19.37	ug/L	97
108) p-isopropyltoluene	9.23	119	212403	18.78	ug/L	98
109) 1,4-dichlorobenzene	9.32	146	105508	19.15	ug/L	100
110) 1,2,3-trimethylbenzene	9.33	105	181919	18.78	ug/L	98
111) 1,2-dichlorobenzene	9.61	146	96172	19.27	ug/L	99
112) n-butylbenzene	9.56	92	107159	18.38	ug/L	98
113) 1,2-dibromo-3-chloropropan	10.25	157	8573	17.34	ug/L	91
114) 1,3,5-trichlorobenzene	10.36	180	84919	18.54	ug/L	98
115) 1,2,4-trichlorobenzene	10.86	180	77065	18.60	ug/L	98
116) hexachlorobutadiene	10.95	225	49781	18.79	ug/L	97
117) naphthalene	11.05	128	147140	18.76	ug/L	97
118) 1,2,3-trichlorobenzene	11.24	180	70072	18.75	ug/L	97
119) hexachloroethane	9.77	201	30630	17.73	ug/L	94
120) benzyl chloride	9.44	91	60294	16.40	ug/L	97
121) 2-methylnaphthalene	11.91	142	45814	9.05	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167230.D
Acq On : 16 Jun 2021 7:52 pm
Operator : PrashanS
Sample : IC7415-20
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 18 17:46:27 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration



M3C7415.M Wed Jun 30 17:04:53 2021 MS3C Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167231.D
Acq On : 16 Jun 2021 8:18 pm
Operator : PrashanS
Sample : ICC7415-50
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 18 17:46:35 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	2.56	65	61228	500.00	ug/L	0.00
5) pentafluorobenzene	4.00	168	284977	50.00	ug/L	0.00
49) 1,4-difluorobenzene	4.66	114	438630	50.00	ug/L	0.00
71) chlorobenzene-d5	7.37	117	383138	50.00	ug/L	0.00
94) 1,4-dichlorobenzene-d4	9.30	152	193732	50.00	ug/L	0.00
System Monitoring Compounds						
42) dibromofluoromethane (s)	3.96	113	123539	50.00	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 100.00%			
50) 1,2-dichloroethane-d4 (s)	4.28	65	130536	50.00	ug/L	0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 100.00%			
72) toluene-d8 (s)	6.05	98	509844	50.00	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.00%			
95) 4-bromofluorobenzene (s)	8.37	95	179240	50.00	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 100.00%			
Target Compounds						Qvalue
3) tertiary butyl alcohol	2.62	59	35435	250.00	ug/L	100
4) 1,4-dioxane	5.26	88	25734	1250.00	ug/L	100
6) dichlorodifluoromethane	1.08	85	165000	50.00	ug/L	100
7) chloromethane	1.23	50	161928	50.00	ug/L	100
8) 1,3-butadiene	1.31	54	120550	50.00	ug/L	100
9) vinyl chloride	1.29	62	152089	50.00	ug/L	100
10) bromomethane	1.53	94	82793	50.00	ug/L	100
11) chloroethane	1.61	64	93150	50.00	ug/L	100
12) trichlorofluoromethane	1.76	101	196067	50.00	ug/L	100
13) ethyl ether	1.98	74	60124	50.00	ug/L	100
14) acrolein	2.12	56	13756	50.00	ug/L	100
15) freon 113	2.12	151	97009	50.00	ug/L	100
16) 1,1-dichloroethene	2.15	96	103912	50.00	ug/L	100
17) acetone	2.23	43	92977	200.00	ug/L	100
18) acetonitrile	2.49	41	96369	500.00	ug/L	100
19) iodomethane	2.28	142	140928	50.00	ug/L	100
20) carbon disulfide	2.30	76	358315	50.00	ug/L	100
21) methylene chloride	2.55	84	110469	50.00	ug/L	100
22) methyl acetate	2.45	43	62705	50.00	ug/L	100
23) methyl tert butyl ether	2.69	73	266376	50.00	ug/L	100
24) trans-1,2-dichloroethene	2.72	96	120903	50.00	ug/L	100
25) hexane	2.86	57	222630	50.00	ug/L	100
26) di-isopropyl ether	3.05	45	382028	50.00	ug/L	100
27) ethyl tert-butyl ether	3.34	59	339594	50.00	ug/L	100
28) 2-butanone	3.57	72	38152	200.00	ug/L	100
29) 1,1-dichloroethane	3.07	63	215583	50.00	ug/L	100
30) chloroprene	3.11	53	187392	50.00	ug/L	100
31) acrylonitrile	2.78	53	24991	50.00	ug/L	100
32) vinyl acetate	3.10	86	21374	50.00	ug/L	100
33) ethyl acetate	3.58	45	14340	50.00	ug/L	100
34) 2,2-dichloropropane	3.52	77	167378	50.00	ug/L	100
35) cis-1,2-dichloroethene	3.55	96	129057	50.00	ug/L	100
36) propionitrile	3.68	54	109718	500.00	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167231.D
Acq On : 16 Jun 2021 8:18 pm
Operator : PrashanS
Sample : ICC7415-50
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 18 17:46:35 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) bromochloromethane	3.76	130	70952	50.00	ug/L	100
38) tetrahydrofuran	3.76	42	25141	50.00	ug/L	100
39) chloroform	3.82	83	210012	50.00	ug/L	100
40) tert-butyl formate	3.82	59	40631	50.00	ug/L	100
41) isobutyl alcohol	4.23	41	175853	500.00	ug/L	100
43) methacrylonitrile	3.78	67	34114	50.00	ug/L	100
44) 1,1,1-trichloroethane	3.93	97	190676	50.00	ug/L	100
45) cyclohexane	3.91	84	200032	50.00	ug/L	100
46) 1,1-dichloropropene	4.08	110	63545	50.00	ug/L	100
47) tert-amyl alcohol	4.29	59	27983	250.00	ug/L	100
48) carbon tetrachloride	4.04	119	160268	50.00	ug/L	100
51) 2,2,4-trimethylpentane	4.23	57	557052	50.00	ug/L	100
52) tert-amyl methyl ether	4.33	87	97034	50.00	ug/L	100
53) n-butyl alcohol	4.87	56	114926	2500.00	ug/L	100
54) benzene	4.26	78	485905	50.00	ug/L	100
55) heptane	4.42	57	120066	50.00	ug/L	100
56) isopropyl acetate	4.33	87	97034	50.00	ug/L	100
57) 1,2-dichloroethane	4.35	62	143777	50.00	ug/L	100
58) trichloroethene	4.87	95	128772	50.00	ug/L	100
60) 2-nitropropane	5.72	41	33770	50.00	ug/L	100
61) 2-chloroethyl vinyl ether	5.73	63	310978	250.00	ug/L	100
62) methyl methacrylate	5.24	100	25182	50.00	ug/L	100
63) 1,2-dichloropropane	5.14	63	118588	50.00	ug/L	100
64) methylcyclohexane	4.97	83	240313	50.00	ug/L	100
65) dibromomethane	5.27	93	60479	50.00	ug/L	100
66) bromodichloromethane	5.42	83	153900	50.00	ug/L	100
67) epichlorohydrin	5.81	57	41798	250.00	ug/L	100
68) cis-1,3-dichloropropene	5.86	75	192726	50.00	ug/L	100
69) 4-methyl-2-pentanone	5.99	85	58892	200.00	ug/L	100
70) 3-methyl-1-butanol	6.08	55	65424	1000.00	ug/L	100
73) toluene	6.11	92	311939	50.00	ug/L	100
74) trans-1,3-dichloropropene	6.41	75	156088	50.00	ug/L	100
75) ethyl methacrylate	6.43	69	122428	50.00	ug/L	100
76) 1,1,2-trichloroethane	6.57	83	76961	50.00	ug/L	100
77) 2-hexanone	6.77	58	130290	200.00	ug/L	100
78) tetrachloroethene	6.60	166	143587	50.00	ug/L	100
79) 1,3-dichloropropane	6.72	76	156874	50.00	ug/L	100
80) butyl acetate	6.86	56	58766	50.00	ug/L	100
81) dibromochloromethane	6.89	129	105707	50.00	ug/L	100
82) 1,2-dibromoethane	6.99	107	87497	50.00	ug/L	100
83) n-butyl ether	7.44	57	522881	50.00	ug/L	100
84) chlorobenzene	7.40	112	326318	50.00	ug/L	100
85) 1,1,1,2-tetrachloroethane	7.48	131	115266	50.00	ug/L	100
86) ethylbenzene	7.46	91	595437	50.00	ug/L	100
87) m,p-xylene	7.57	106	459582	100.00	ug/L	100
88) o-xylene	7.90	91	461144	50.00	ug/L	100
89) styrene	7.93	104	379808	50.00	ug/L	100
90) bromoform	8.11	173	70460	50.00	ug/L	100
91) butyl acrylate	7.90	55	178382	50.00	ug/L	100
92) isopropylbenzene	8.20	105	593530	50.00	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167231.D
Acq On : 16 Jun 2021 8:18 pm
Operator : PrashanS
Sample : ICC7415-50
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 18 17:46:35 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration

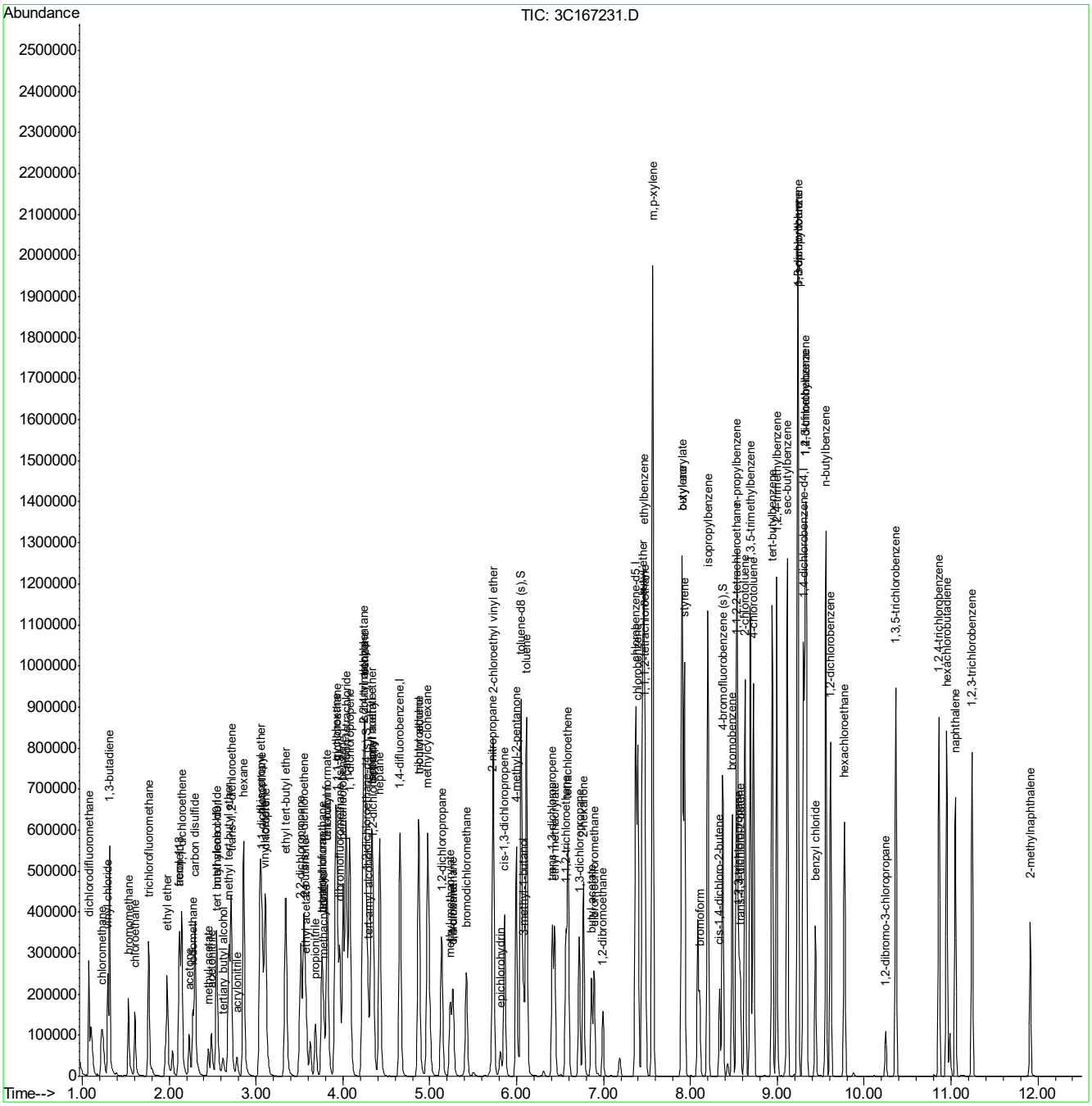
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) cis-1,4-dichloro-2-butene	8.34	53	35959	50.00	ug/L	100
96) bromobenzene	8.48	156	140451	50.00	ug/L	100
97) 1,1,2,2-tetrachloroethane	8.53	83	106020	50.00	ug/L	100
98) trans-1,4-dichloro-2-buten	8.58	88	15328	50.00	ug/L	100
99) 1,2,3-trichloropropane	8.56	110	31459	50.00	ug/L	100
100) n-propylbenzene	8.54	91	710374	50.00	ug/L	100
101) 2-chlorotoluene	8.63	126	137456	50.00	ug/L	100
102) 4-chlorotoluene	8.72	126	142875	50.00	ug/L	100
103) 1,3,5-trimethylbenzene	8.69	105	479645	50.00	ug/L	100
104) tert-butylbenzene	8.94	119	439510	50.00	ug/L	100
105) 1,2,4-trimethylbenzene	8.99	105	493520	50.00	ug/L	100
106) sec-butylbenzene	9.12	105	660157	50.00	ug/L	100
107) 1,3-dichlorobenzene	9.24	146	275893	50.00	ug/L	100
108) p-isopropyltoluene	9.24	119	572750	50.00	ug/L	100
109) 1,4-dichlorobenzene	9.32	146	279009	50.00	ug/L	100
110) 1,2,3-trimethylbenzene	9.33	105	490601	50.00	ug/L	100
111) 1,2-dichlorobenzene	9.61	146	252784	50.00	ug/L	100
112) n-butylbenzene	9.56	92	295292	50.00	ug/L	100
113) 1,2-dibromo-3-chloropropan	10.25	157	25040	50.00	ug/L	100
114) 1,3,5-trichlorobenzene	10.36	180	231938	50.00	ug/L	100
115) 1,2,4-trichlorobenzene	10.86	180	209817	50.00	ug/L	100
116) hexachlorobutadiene	10.95	225	134145	50.00	ug/L	100
117) naphthalene	11.05	128	397268	50.00	ug/L	100
118) 1,2,3-trichlorobenzene	11.24	180	189285	50.00	ug/L	100
119) hexachloroethane	9.78	201	87503	50.00	ug/L	100
120) benzyl chloride	9.44	91	186170	50.00	ug/L	100
121) 2-methylnaphthalene	11.91	142	128244	25.00	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167231.D
Acq On : 16 Jun 2021 8:18 pm
Operator : PrashanS
Sample : ICC7415-50
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 18 17:46:35 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167232.D
Acq On : 16 Jun 2021 8:43 pm
Operator : PrashanS
Sample : IC7415-100
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 18 17:46:41 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) tert butyl alcohol-d9	2.56	65	63640	500.00	ug/L		0.00
5) pentafluorobenzene	4.00	168	288992	50.00	ug/L		0.00
49) 1,4-difluorobenzene	4.66	114	446849	50.00	ug/L		0.00
71) chlorobenzene-d5	7.37	117	388161	50.00	ug/L		0.00
94) 1,4-dichlorobenzene-d4	9.30	152	201059	50.00	ug/L		0.00
System Monitoring Compounds							
42) dibromofluoromethane (s)	3.96	113	127085	50.72	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 101.44%				
50) 1,2-dichloroethane-d4 (s)	4.28	65	129760	48.79	ug/L		0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 97.58%				
72) toluene-d8 (s)	6.05	98	520705	50.40	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.80%				
95) 4-bromofluorobenzene (s)	8.37	95	182512	49.06	ug/L		0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 98.12%				
Target Compounds							Qvalue
3) tertiary butyl alcohol	2.62	59	64154	435.46	ug/L		96
4) 1,4-dioxane	5.26	88	45196	2112.14	ug/L		94
6) dichlorodifluoromethane	1.08	85	265173	79.24	ug/L		99
7) chloromethane	1.22	50	278343	84.75	ug/L		99
8) 1,3-butadiene	1.31	54	198989	81.39	ug/L		100
9) vinyl chloride	1.29	62	259911	84.26	ug/L		100
10) bromomethane	1.53	94	129955	77.39	ug/L		100
11) chloroethane	1.61	64	163535	86.56	ug/L		99
12) trichlorofluoromethane	1.76	101	317988	79.97	ug/L		100
13) ethyl ether	1.98	74	105806	86.77	ug/L		94
14) acrolein	2.12	56	25149	90.14	ug/L		94
15) freon 113	2.12	151	158462	80.54	ug/L		99
16) 1,1-dichloroethene	2.15	96	172294	81.75	ug/L		99
17) acetone	2.23	43	160429	340.30	ug/L		99
18) acetonitrile	2.49	41	164469	841.47	ug/L		97
19) iodomethane	2.28	142	261096	91.35	ug/L		98
20) carbon disulfide	2.30	76	603521	83.05	ug/L		99
21) methylene chloride	2.55	84	192816	86.06	ug/L		97
22) methyl acetate	2.45	43	111076	87.34	ug/L		99
23) methyl tert butyl ether	2.69	73	476036	88.11	ug/L		100
24) trans-1,2-dichloroethene	2.72	96	207894	84.78	ug/L		99
25) hexane	2.86	57	361735	80.11	ug/L		97
26) di-isopropyl ether	3.05	45	680182	87.79	ug/L		99
27) ethyl tert-butyl ether	3.34	59	607143	88.15	ug/L		98
28) 2-butanone	3.57	72	66318	342.82	ug/L		96
29) 1,1-dichloroethane	3.07	63	371634	85.00	ug/L		99
30) chloroprene	3.11	53	318115	83.70	ug/L		99
31) acrylonitrile	2.78	53	43260	85.35	ug/L		91
32) vinyl acetate	3.10	86	37891	87.41	ug/L		95
33) ethyl acetate	3.58	45	24365	83.77	ug/L	#	78
34) 2,2-dichloropropane	3.52	77	291844	85.97	ug/L		98
35) cis-1,2-dichloroethene	3.55	96	223866	85.53	ug/L		97
36) propionitrile	3.68	54	189531	851.72	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167232.D
Acq On : 16 Jun 2021 8:43 pm
Operator : PrashanS
Sample : IC7415-100
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 18 17:46:41 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
37) bromochloromethane	3.76	130	124673	86.64 ug/L		98
38) tetrahydrofuran	3.76	42	44387	87.05 ug/L		97
39) chloroform	3.82	83	362997	85.22 ug/L		99
40) tert-butyl formate	3.82	59	76243	92.52 ug/L		90
41) isobutyl alcohol	4.23	41	293452	822.78 ug/L		99
43) methacrylonitrile	3.78	67	60736	87.78 ug/L		98
44) 1,1,1-trichloroethane	3.93	97	322328	83.35 ug/L		98
45) cyclohexane	3.92	84	327792	80.80 ug/L		98
46) 1,1-dichloropropene	4.08	110	104393	81.00 ug/L		96
47) tert-amyl alcohol	4.30	59	49698	437.83 ug/L	#	64
48) carbon tetrachloride	4.04	119	265923	81.81 ug/L		99
51) 2,2,4-trimethylpentane	4.23	57	940192	82.84 ug/L		100
52) tert-amyl methyl ether	4.33	87	175758	88.90 ug/L		98
53) n-butyl alcohol	4.87	56	215861	4609.28 ug/L		100
54) benzene	4.26	78	842006	85.05 ug/L		100
55) heptane	4.42	57	200035	81.77 ug/L		98
56) isopropyl acetate	4.33	87	175758	88.90 ug/L		99
57) 1,2-dichloroethane	4.35	62	249208	85.07 ug/L		99
58) trichloroethene	4.88	95	221414	84.39 ug/L		92
60) 2-nitropropane	5.72	41	60520	87.96 ug/L	#	88
61) 2-chloroethyl vinyl ether	5.73	63	546622	431.36 ug/L		99
62) methyl methacrylate	5.24	100	44823	87.36 ug/L		96
63) 1,2-dichloropropane	5.14	63	209622	86.76 ug/L		97
64) methylcyclohexane	4.97	83	392872	80.24 ug/L		100
65) dibromomethane	5.27	93	105349	85.49 ug/L		96
66) bromodichloromethane	5.42	83	271177	86.48 ug/L		98
67) epichlorohydrin	5.81	57	74335	436.43 ug/L		99
68) cis-1,3-dichloropropene	5.86	75	342705	87.27 ug/L		100
69) 4-methyl-2-pentanone	5.99	85	104832	349.47 ug/L		94
70) 3-methyl-1-butanol	6.08	55	123638	1855.04 ug/L		98
73) toluene	6.11	92	538368	85.18 ug/L		100
74) trans-1,3-dichloropropene	6.41	75	281096	88.88 ug/L		98
75) ethyl methacrylate	6.43	69	221206	89.17 ug/L		98
76) 1,1,2-trichloroethane	6.57	83	132842	85.19 ug/L		94
77) 2-hexanone	6.77	58	228587	346.35 ug/L		99
78) tetrachloroethene	6.60	166	241000	82.84 ug/L		99
79) 1,3-dichloropropane	6.72	76	278653	87.66 ug/L		99
80) butyl acetate	6.86	56	104902	88.10 ug/L		97
81) dibromochloromethane	6.89	129	188331	87.93 ug/L		99
82) 1,2-dibromoethane	6.99	107	152965	86.28 ug/L		100
83) n-butyl ether	7.44	57	924311	87.24 ug/L		98
84) chlorobenzene	7.40	112	563537	85.23 ug/L		98
85) 1,1,1,2-tetrachloroethane	7.48	131	203993	87.34 ug/L		99
86) ethylbenzene	7.46	91	1010741	83.78 ug/L		99
87) m,p-xylene	7.57	106	795416	170.83 ug/L		98
88) o-xylene	7.90	91	798140	85.42 ug/L		100
89) styrene	7.93	104	670120	87.08 ug/L		99
90) bromoform	8.11	173	125405	87.84 ug/L		96
91) butyl acrylate	7.90	55	328509	90.89 ug/L		98
92) isopropylbenzene	8.20	105	1011098	84.07 ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167232.D
Acq On : 16 Jun 2021 8:43 pm
Operator : PrashanS
Sample : IC7415-100
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 18 17:46:41 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration

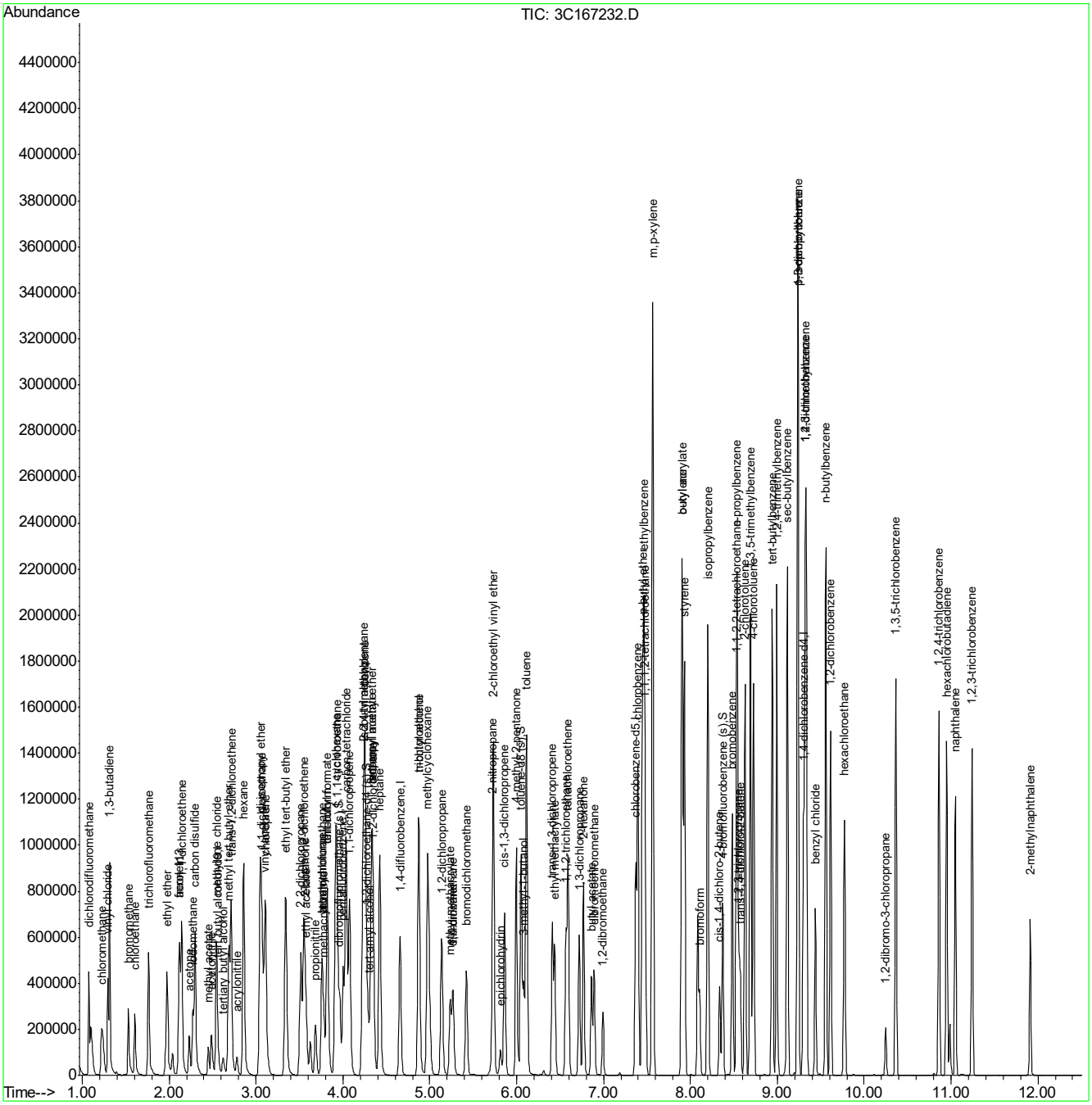
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
93) cis-1,4-dichloro-2-butene	8.33	53	64253	88.19 ug/L	96
96) bromobenzene	8.48	156	245884	84.34 ug/L	98
97) 1,1,2,2-tetrachloroethane	8.53	83	185923	84.49 ug/L	100
98) trans-1,4-dichloro-2-buten	8.58	88	28065	88.21 ug/L	92
99) 1,2,3-trichloropropane	8.56	110	55886	85.59 ug/L	99
100) n-propylbenzene	8.54	91	1219878	82.73 ug/L	99
101) 2-chlorotoluene	8.63	126	242485	84.99 ug/L	98
102) 4-chlorotoluene	8.73	126	254176	85.71 ug/L	91
103) 1,3,5-trimethylbenzene	8.69	105	853947	85.77 ug/L	99
104) tert-butylbenzene	8.94	119	756190	82.89 ug/L	97
105) 1,2,4-trimethylbenzene	8.99	105	883524	86.25 ug/L	99
106) sec-butylbenzene	9.12	105	1141998	83.34 ug/L	99
107) 1,3-dichlorobenzene	9.24	146	499916	87.30 ug/L	98
108) p-isopropyltoluene	9.24	119	1015140	85.39 ug/L	100
109) 1,4-dichlorobenzene	9.32	146	503279	86.90 ug/L	99
110) 1,2,3-trimethylbenzene	9.33	105	883201	86.73 ug/L	99
111) 1,2-dichlorobenzene	9.61	146	462946	88.23 ug/L	99
112) n-butylbenzene	9.56	92	525481	85.73 ug/L	100
113) 1,2-dibromo-3-chloropropan	10.25	157	45333	87.22 ug/L	98
114) 1,3,5-trichlorobenzene	10.36	180	416552	86.53 ug/L	99
115) 1,2,4-trichlorobenzene	10.86	180	377773	86.74 ug/L	97
116) hexachlorobutadiene	10.95	225	232000	83.32 ug/L	97
117) naphthalene	11.05	128	703662	85.34 ug/L	100
118) 1,2,3-trichlorobenzene	11.25	180	336504	85.65 ug/L	99
119) hexachloroethane	9.78	201	159874	88.02 ug/L	99
120) benzyl chloride	9.44	91	366079	94.74 ug/L	98
121) 2-methylnaphthalene	11.91	142	232427	43.66 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167232.D
Acq On : 16 Jun 2021 8:43 pm
Operator : PrashanS
Sample : IC7415-100
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 18 17:46:41 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167233.D
Acq On : 16 Jun 2021 9:08 pm
Operator : PrashanS
Sample : IC7415-200
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 18 17:46:49 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) tert butyl alcohol-d9	2.57	65	63462	500.00	ug/L		0.01
5) pentafluorobenzene	4.00	168	291403	50.00	ug/L		0.00
49) 1,4-difluorobenzene	4.66	114	451363	50.00	ug/L		0.00
71) chlorobenzene-d5	7.37	117	385366	50.00	ug/L		0.00
94) 1,4-dichlorobenzene-d4	9.30	152	213556	50.00	ug/L		0.00
System Monitoring Compounds							
42) dibromofluoromethane (s)	3.97	113	124863	49.42	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 98.84%				
50) 1,2-dichloroethane-d4 (s)	4.28	65	128846	47.96	ug/L		0.00
Spiked Amount 50.000	Range 75 - 130		Recovery = 95.92%				
72) toluene-d8 (s)	6.05	98	521036	50.80	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.60%				
95) 4-bromofluorobenzene (s)	8.37	95	187665	47.49	ug/L		0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 94.98%				
Target Compounds							Qvalue
3) tertiary butyl alcohol	2.63	59	132335	900.78	ug/L		97
4) 1,4-dioxane	5.26	88	92670	4342.88	ug/L		96
6) dichlorodifluoromethane	1.08	85	524303	155.38	ug/L		99
7) chloromethane	1.22	50	556543	168.06	ug/L		99
8) 1,3-butadiene	1.31	54	416659	169.00	ug/L		99
9) vinyl chloride	1.29	62	519012	166.87	ug/L		99
10) bromomethane	1.53	94	230966	136.41	ug/L		99
11) chloroethane	1.60	64	332115	174.34	ug/L		99
12) trichlorofluoromethane	1.76	101	637037	158.87	ug/L		99
13) ethyl ether	1.98	74	217132	176.59	ug/L	#	84
14) acrolein	2.12	56	50204	178.46	ug/L		89
15) freon 113	2.12	151	326567	164.61	ug/L		99
16) 1,1-dichloroethene	2.15	96	359870	169.34	ug/L		95
17) acetone	2.23	43	329612	693.38	ug/L		98
18) acetonitrile	2.49	41	339356	1721.88	ug/L		97
19) iodomethane	2.27	142	540600	187.57	ug/L		100
20) carbon disulfide	2.30	76	1229298	167.76	ug/L		99
21) methylene chloride	2.55	84	391770	173.41	ug/L		96
22) methyl acetate	2.45	43	216624	168.92	ug/L		97
23) methyl tert butyl ether	2.69	73	959334	176.10	ug/L		98
24) trans-1,2-dichloroethene	2.72	96	427789	173.01	ug/L		98
25) hexane	2.86	57	764055	167.81	ug/L		97
26) di-isopropyl ether	3.05	45	1394666	178.51	ug/L		99
27) ethyl tert-butyl ether	3.34	59	1246365	179.46	ug/L		98
28) 2-butanone	3.57	72	132867	681.15	ug/L		99
29) 1,1-dichloroethane	3.07	63	763459	173.16	ug/L		99
30) chloroprene	3.11	53	654760	170.85	ug/L		99
31) acrylonitrile	2.78	53	85482	167.25	ug/L		88
32) vinyl acetate	3.10	86	75724	173.23	ug/L		93
33) ethyl acetate	3.58	45	47967	163.56	ug/L		93
34) 2,2-dichloropropane	3.52	77	622523	181.86	ug/L		98
35) cis-1,2-dichloroethene	3.55	96	454622	172.25	ug/L		99
36) propionitrile	3.69	54	378733	1687.88	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167233.D
Acq On : 16 Jun 2021 9:08 pm
Operator : PrashanS
Sample : IC7415-200
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 18 17:46:49 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
37) bromochloromethane	3.76	130	245585	169.25 ug/L	95
38) tetrahydrofuran	3.76	42	88949	173.00 ug/L	95
39) chloroform	3.82	83	739499	172.18 ug/L	99
40) tert-butyl formate	3.82	59	169621	204.13 ug/L	88
41) isobutyl alcohol	4.24	41	615553	1711.60 ug/L	96
43) methacrylonitrile	3.78	67	122416	175.47 ug/L	99
44) 1,1,1-trichloroethane	3.93	97	660955	169.50 ug/L	97
45) cyclohexane	3.92	84	655381	160.21 ug/L	100
46) 1,1-dichloropropene	4.08	110	216586	166.66 ug/L	95
47) tert-amyl alcohol	4.30	59	115918	1012.77 ug/L #	70
48) carbon tetrachloride	4.04	119	550560	167.97 ug/L	98
51) 2,2,4-trimethylpentane	4.24	57	1946384	169.78 ug/L	99
52) tert-amyl methyl ether	4.33	87	364474	182.51 ug/L	99
53) n-butyl alcohol	4.88	56	484972	10252.05 ug/L	98
54) benzene	4.26	78	1699628	169.96 ug/L	97
55) heptane	4.42	57	423916	171.55 ug/L	99
56) isopropyl acetate	4.33	87	364474	182.51 ug/L	96
57) 1,2-dichloroethane	4.35	62	504939	170.64 ug/L	100
58) trichloroethene	4.88	95	452169	170.62 ug/L	94
60) 2-nitropropane	5.71	41	122897	176.83 ug/L #	7
61) 2-chloroethyl vinyl ether	5.73	63	1112899	869.44 ug/L	99
62) methyl methacrylate	5.24	100	92478	178.44 ug/L	95
63) 1,2-dichloropropane	5.14	63	429124	175.83 ug/L	98
64) methylcyclohexane	4.98	83	819812	165.76 ug/L	99
65) dibromomethane	5.27	93	212828	170.99 ug/L	99
66) bromodichloromethane	5.42	83	548457	173.16 ug/L	99
67) epichlorohydrin	5.82	57	150663	875.72 ug/L	99
68) cis-1,3-dichloropropene	5.86	75	696649	175.64 ug/L	99
69) 4-methyl-2-pentanone	6.00	85	207156	683.67 ug/L #	91
70) 3-methyl-1-butanol	6.08	55	268317	3985.51 ug/L	99
73) toluene	6.11	92	1094932	174.49 ug/L	97
74) trans-1,3-dichloropropene	6.41	75	578851	184.35 ug/L	99
75) ethyl methacrylate	6.43	69	452538	183.75 ug/L	99
76) 1,1,2-trichloroethane	6.57	83	268370	173.35 ug/L	97
77) 2-hexanone	6.77	58	463960	708.08 ug/L	99
78) tetrachloroethene	6.60	166	489099	169.33 ug/L	98
79) 1,3-dichloropropane	6.72	76	552133	174.96 ug/L	99
80) butyl acetate	6.86	56	214585	181.52 ug/L	97
81) dibromochloromethane	6.89	129	377831	177.68 ug/L	99
82) 1,2-dibromoethane	6.99	107	305671	173.67 ug/L	99
83) n-butyl ether	7.44	57	1902105	180.84 ug/L	99
84) chlorobenzene	7.40	112	1135771	173.02 ug/L	96
85) 1,1,1,2-tetrachloroethane	7.48	131	412031	177.70 ug/L	99
86) ethylbenzene	7.46	91	2027183	169.24 ug/L	97
87) m,p-xylene	7.57	106	1589586	343.88 ug/L	94
88) o-xylene	7.90	91	1616225	174.23 ug/L	98
89) styrene	7.93	104	1347973	176.43 ug/L	97
90) bromoform	8.11	173	258873	182.64 ug/L	96
91) butyl acrylate	7.90	55	702652	195.81 ug/L	99
92) isopropylbenzene	8.20	105	2044613	171.25 ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167233.D
Acq On : 16 Jun 2021 9:08 pm
Operator : PrashanS
Sample : IC7415-200
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 18 17:46:49 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration

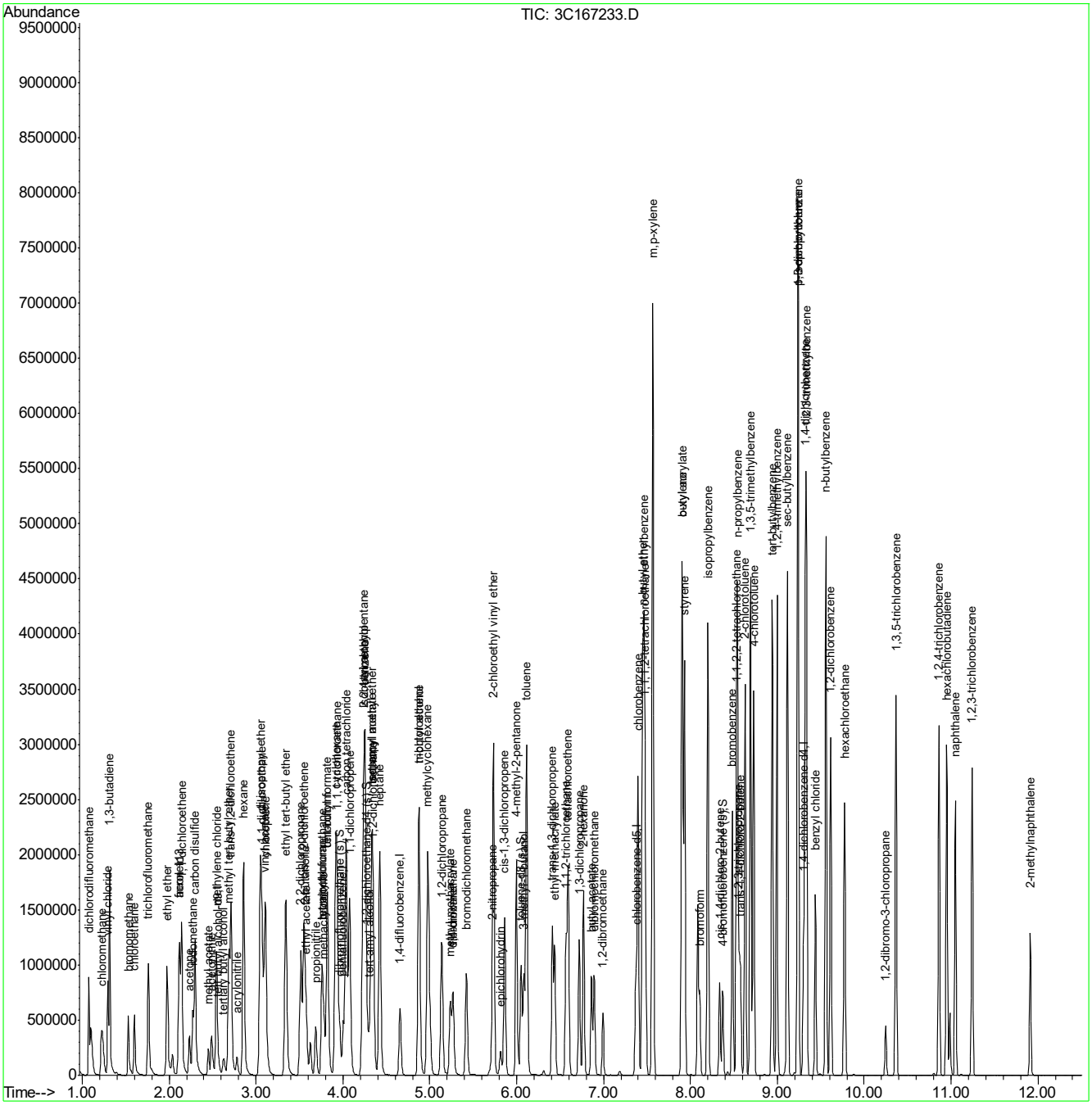
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
93) cis-1,4-dichloro-2-butene	8.33	53	136395	188.56 ug/L	95
96) bromobenzene	8.48	156	509688	164.60 ug/L	92
97) 1,1,2,2-tetrachloroethane	8.53	83	396180	169.50 ug/L	99
98) trans-1,4-dichloro-2-buten	8.58	88	62533	185.05 ug/L	93
99) 1,2,3-trichloropropane	8.56	110	116977	168.66 ug/L	98
100) n-propylbenzene	8.54	91	2469270	157.67 ug/L	96
101) 2-chlorotoluene	8.63	126	509156	168.01 ug/L	99
102) 4-chlorotoluene	8.73	126	532020	168.90 ug/L	89
103) 1,3,5-trimethylbenzene	8.69	105	1767982	167.19 ug/L	96
104) tert-butylbenzene	8.94	119	1591829	164.28 ug/L	96
105) 1,2,4-trimethylbenzene	9.00	105	1824873	167.72 ug/L	98
106) sec-butylbenzene	9.12	105	2358490	162.05 ug/L	96
107) 1,3-dichlorobenzene	9.24	146	1032950	169.82 ug/L	99
108) p-isopropyltoluene	9.24	119	2091670	165.65 ug/L	97
109) 1,4-dichlorobenzene	9.32	146	1048242	170.41 ug/L	97
110) 1,2,3-trimethylbenzene	9.34	105	1826578	168.88 ug/L	96
111) 1,2-dichlorobenzene	9.62	146	967400	173.59 ug/L	99
112) n-butylbenzene	9.56	92	1120512	172.12 ug/L	95
113) 1,2-dibromo-3-chloropropan	10.25	157	95961	173.83 ug/L	97
114) 1,3,5-trichlorobenzene	10.37	180	855649	167.33 ug/L	99
115) 1,2,4-trichlorobenzene	10.86	180	758912	164.06 ug/L	99
116) hexachlorobutadiene	10.95	225	482626	163.19 ug/L	100
117) naphthalene	11.05	128	1391123	158.83 ug/L	99
118) 1,2,3-trichlorobenzene	11.25	180	674859	161.72 ug/L	99
119) hexachloroethane	9.78	201	355600	184.33 ug/L	97
120) benzyl chloride	9.44	91	829658	202.14 ug/L	99
121) 2-methylnaphthalene	11.91	142	449727	79.53 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167233.D
Acq On : 16 Jun 2021 9:08 pm
Operator : PrashanS
Sample : IC7415-200
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 18 17:46:49 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Fri Jun 18 17:37:31 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167236.D
Acq On : 16 Jun 2021 10:23 pm
Operator : PrashanS
Sample : ICV7415-50
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 28 17:54:09 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Mon Jun 28 17:53:46 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	2.56	65	58753	500.00	ug/L	0.00
5) pentafluorobenzene	4.00	168	280120	50.00	ug/L	0.00
49) 1,4-difluorobenzene	4.66	114	441361	50.00	ug/L	0.00
71) chlorobenzene-d5	7.37	117	375568	50.00	ug/L	0.00
94) 1,4-dichlorobenzene-d4	9.30	152	189364	50.00	ug/L	0.00
System Monitoring Compounds						
42) dibromofluoromethane (s)	3.96	113	122366	50.75	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 101.50%			
50) 1,2-dichloroethane-d4 (s)	4.28	65	128997	49.29	ug/L	0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 98.58%			
72) toluene-d8 (s)	6.05	98	510355	51.47	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 102.94%			
95) 4-bromofluorobenzene (s)	8.37	95	177671	51.36	ug/L	0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 102.72%			
Target Compounds						Qvalue
3) tertiary butyl alcohol	2.62	59	33982	286.76	ug/L	95
4) 1,4-dioxane	5.26	88	23897	1446.10	ug/L	77
6) dichlorodifluoromethane	1.08	85	170209	62.92	ug/L	97
7) chloromethane	1.22	50	150097	52.36	ug/L	98
8) 1,3-butadiene	1.31	54	122466	62.32	ug/L	99
9) vinyl chloride	1.29	62	148760	59.33	ug/L	99
10) bromomethane	1.53	94	88042	59.22	ug/L	100
11) chloroethane	1.61	64	91154	58.55	ug/L	99
12) trichlorofluoromethane	1.76	101	190835	60.49	ug/L	98
13) ethyl ether	1.98	74	57427	56.41	ug/L	92
14) acrolein	2.12	56	14148	61.58	ug/L	85
15) freon 113	2.12	151	85600	52.88	ug/L	98
16) 1,1-dichloroethene	2.15	96	99873	59.02	ug/L	97
17) acetone	2.23	43	86643	212.04	ug/L	98
19) iodomethane	2.27	142	127870	50.87	ug/L	99
20) carbon disulfide	2.30	76	348589	55.74	ug/L	99
21) methylene chloride	2.55	84	109410	54.84	ug/L	95
22) methyl acetate	2.45	43	59550	51.04	ug/L	98
23) methyl tert butyl ether	2.69	73	264974	56.44	ug/L	99
24) trans-1,2-dichloroethene	2.72	96	118237	58.33	ug/L	100
25) hexane	2.86	57	225353	59.04	ug/L	98
26) di-isopropyl ether	3.05	45	366888	57.13	ug/L	99
27) ethyl tert-butyl ether	3.34	59	320307	54.82	ug/L	99
28) 2-butanone	3.57	72	37727	237.54	ug/L	94
29) 1,1-dichloroethane	3.07	63	213196	59.90	ug/L	98
30) chloroprene	3.11	53	208184	67.70	ug/L	98
32) vinyl acetate	3.10	86	22348	63.68	ug/L #	79
33) ethyl acetate	3.58	45	13501	59.14	ug/L	95
34) 2,2-dichloropropane	3.52	77	169582	59.33	ug/L	98
35) cis-1,2-dichloroethene	3.55	96	130705	59.79	ug/L	96
36) propionitrile	3.68	54	105553	558.73	ug/L	99
37) bromochloromethane	3.76	130	70434	57.36	ug/L	99
38) tetrahydrofuran	3.76	42	25082	54.74	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167236.D
Acq On : 16 Jun 2021 10:23 pm
Operator : PrashanS
Sample : ICV7415-50
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 28 17:54:09 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Mon Jun 28 17:53:46 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) chloroform	3.82	83	207061	54.44	ug/L		99
40) tert-butyl formate	3.82	59	31226	46.07	ug/L		93
41) isobutyl alcohol	4.23	41	163299	553.53	ug/L		98
43) methacrylonitrile	3.78	67	33880	56.54	ug/L		94
44) 1,1,1-trichloroethane	3.93	97	186439	58.95	ug/L		97
45) cyclohexane	3.91	84	204707	63.47	ug/L		97
46) 1,1-dichloropropene	4.08	110	61626	59.89	ug/L		99
47) tert-amyl alcohol	4.29	59	28808	297.99	ug/L		95
48) carbon tetrachloride	4.04	119	156920	56.40	ug/L		99
51) 2,2,4-trimethylpentane	4.23	57	521746	55.02	ug/L		99
52) tert-amyl methyl ether	4.33	87	88496	53.12	ug/L		94
53) n-butyl alcohol	4.87	56	106970	2403.92	ug/L		99
54) benzene	4.26	78	489669	57.16	ug/L		99
55) heptane	4.42	57	115954	57.52	ug/L		99
56) isopropyl acetate	4.33	87	88496	53.12	ug/L		92
57) 1,2-dichloroethane	4.35	62	142541	52.94	ug/L		97
58) trichloroethene	4.87	95	128990	56.73	ug/L		98
60) 2-nitropropane	5.72	41	33537	56.07	ug/L	#	90
61) 2-chloroethyl vinyl ether	5.73	63	311770	290.23	ug/L		98
62) methyl methacrylate	5.24	100	24935	57.28	ug/L		98
63) 1,2-dichloropropane	5.14	63	120545	58.44	ug/L		97
64) methylcyclohexane	4.97	83	233713	57.04	ug/L		98
65) dibromomethane	5.26	93	59168	56.07	ug/L		94
66) bromodichloromethane	5.42	83	151028	56.28	ug/L		97
67) epichlorohydrin	5.81	57	41108	289.83	ug/L		98
68) cis-1,3-dichloropropene	5.86	75	187574	58.01	ug/L		100
69) 4-methyl-2-pentanone	5.99	85	56174	227.00	ug/L		98
70) 3-methyl-1-butanol	6.08	55	61265	982.92	ug/L		93
73) toluene	6.11	92	315159	59.41	ug/L		99
74) trans-1,3-dichloropropene	6.41	75	157901	59.22	ug/L		99
75) ethyl methacrylate	6.43	69	122496	57.60	ug/L		99
76) 1,1,2-trichloroethane	6.57	83	76610	58.42	ug/L		99
77) 2-hexanone	6.77	58	121837	231.76	ug/L		97
79) 1,3-dichloropropane	6.72	76	156187	56.71	ug/L		99
80) butyl acetate	6.86	56	58819	57.15	ug/L		96
81) dibromochloromethane	6.89	129	106530	57.93	ug/L		98
82) 1,2-dibromoethane	6.99	107	85833	56.58	ug/L		96
83) n-butyl ether	7.44	57	539644	62.91	ug/L		97
84) chlorobenzene	7.39	112	320909	56.75	ug/L		95
85) 1,1,1,2-tetrachloroethane	7.48	131	114679	58.42	ug/L		99
86) ethylbenzene	7.46	91	595407	58.20	ug/L		100
87) m,p-xylene	7.57	106	462226	119.25	ug/L		99
88) o-xylene	7.90	91	456244	58.41	ug/L		100
89) styrene	7.93	104	371449	57.86	ug/L		100
90) bromoform	8.11	173	67982	56.36	ug/L		95
91) butyl acrylate	7.90	55	168908	51.48	ug/L		99
92) isopropylbenzene	8.20	105	592034	58.39	ug/L		100
93) cis-1,4-dichloro-2-butene	8.33	53	33255	55.01	ug/L		94
96) bromobenzene	8.48	156	138245	55.94	ug/L		99
97) 1,1,2,2-tetrachloroethane	8.53	83	101840	56.25	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167236.D
Acq On : 16 Jun 2021 10:23 pm
Operator : PrashanS
Sample : ICV7415-50
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 28 17:54:09 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Mon Jun 28 17:53:46 2021
Response via : Initial Calibration

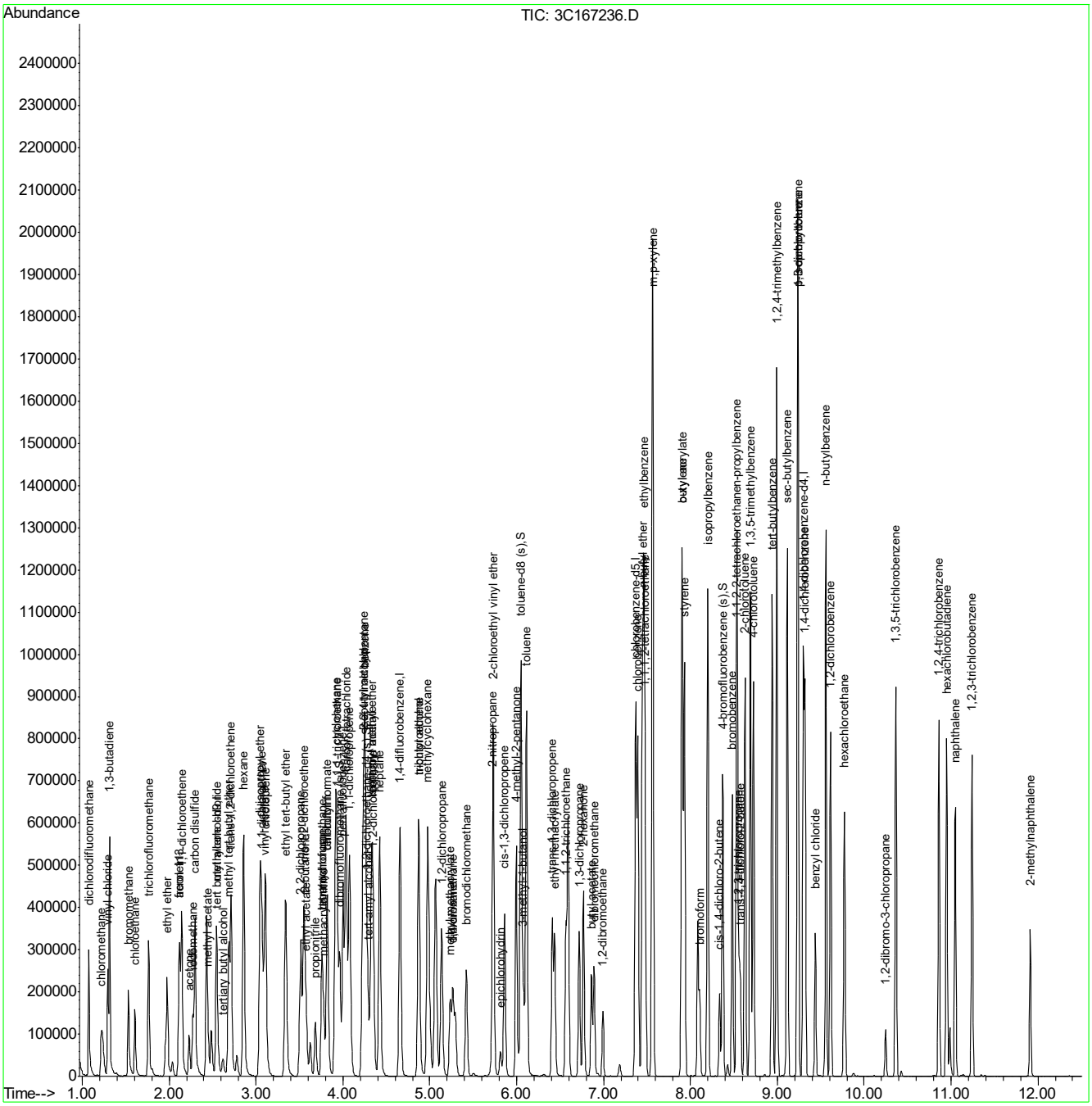
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
98) trans-1,4-dichloro-2-buten	8.58	88	14833	59.17 ug/L	94
99) 1,2,3-trichloropropane	8.56	110	30843	57.18 ug/L	98
100) n-propylbenzene	8.54	91	706183	60.06 ug/L	98
101) 2-chlorotoluene	8.63	126	134894	57.24 ug/L	100
102) 4-chlorotoluene	8.72	126	140186	56.98 ug/L	100
103) 1,3,5-trimethylbenzene	8.69	105	484369	60.03 ug/L	99
104) tert-butylbenzene	8.94	119	435756	59.51 ug/L	99
105) 1,2,4-trimethylbenzene	8.99	105	494240	60.34 ug/L	93
106) sec-butylbenzene	9.12	105	653935	60.36 ug/L	99
107) 1,3-dichlorobenzene	9.24	146	271358	55.29 ug/L	100
108) p-isopropyltoluene	9.24	119	561199	59.20 ug/L	99
109) 1,4-dichlorobenzene	9.32	146	265783	53.42 ug/L	99
111) 1,2-dichlorobenzene	9.61	146	250207	56.72 ug/L	98
112) n-butylbenzene	9.56	92	289033	59.19 ug/L	99
113) 1,2-dibromo-3-chloropropan	10.25	157	23502	56.77 ug/L	96
114) 1,3,5-trichlorobenzene	10.36	180	228012	56.82 ug/L	100
115) 1,2,4-trichlorobenzene	10.86	180	195884	54.68 ug/L	100
116) hexachlorobutadiene	10.95	225	127511	55.31 ug/L	98
117) naphthalene	11.05	128	376722	58.30 ug/L	99
118) 1,2,3-trichlorobenzene	11.24	180	180608	55.40 ug/L	98
119) hexachloroethane	9.77	201	87094	61.78 ug/L	97
120) benzyl chloride	9.44	91	173555	49.77 ug/L	100
121) 2-methylnaphthalene	11.91	142	119450	27.99 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167236.D
Acq On : 16 Jun 2021 10:23 pm
Operator : PrashanS
Sample : ICV7415-50
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 28 17:54:09 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Mon Jun 28 17:53:46 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167237.D
Acq On : 16 Jun 2021 10:49 pm
Operator : PrashanS
Sample : ICV7415-50
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 28 17:57:25 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Mon Jun 28 17:56:55 2021
Response via : Initial Calibration

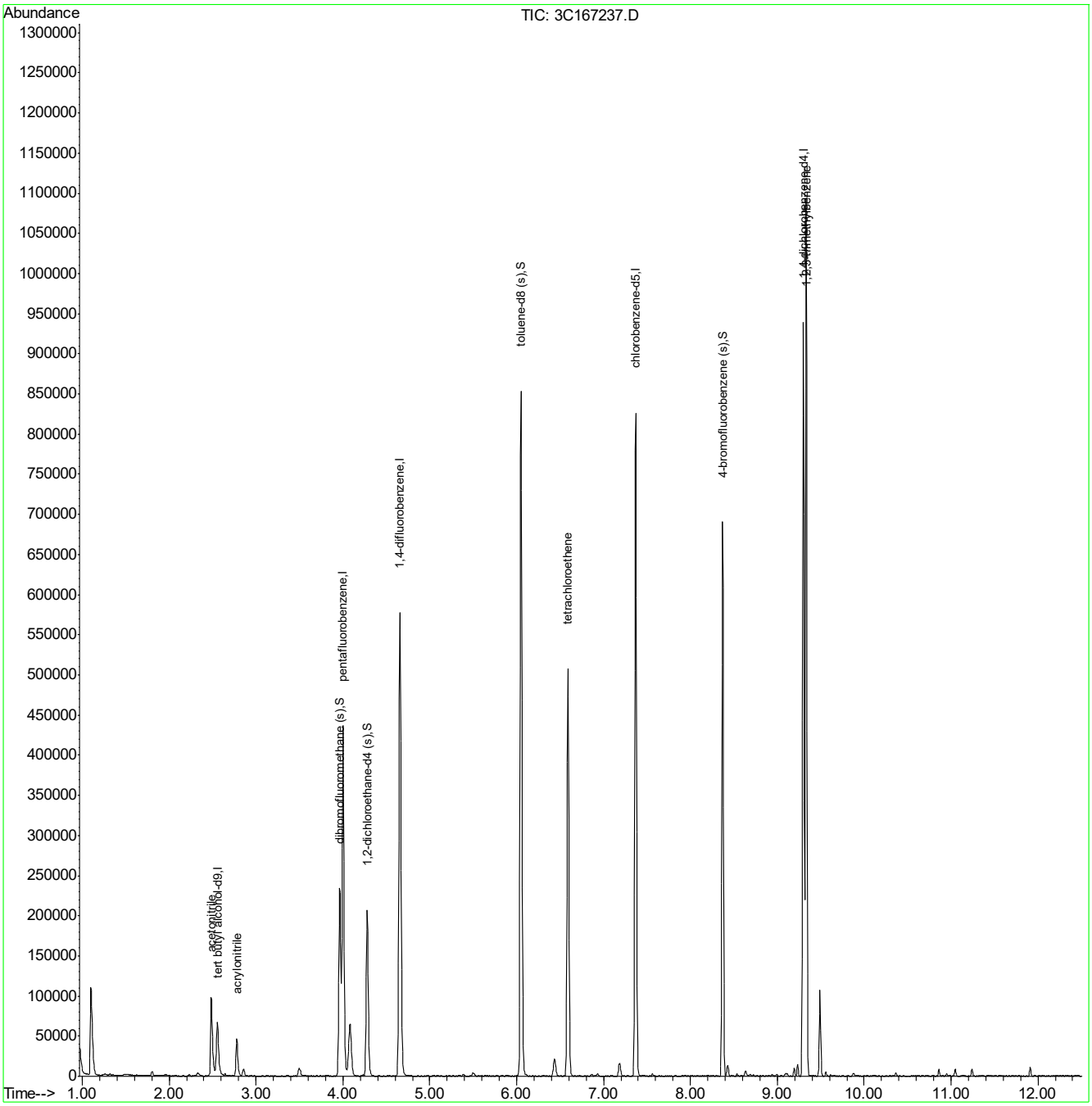
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	2.56	65	61226	500.00	ug/L	0.00
5) pentafluorobenzene	4.00	168	267668	50.00	ug/L	0.00
49) 1,4-difluorobenzene	4.66	114	420389	50.00	ug/L	0.00
71) chlorobenzene-d5	7.37	117	360531	50.00	ug/L	0.00
94) 1,4-dichlorobenzene-d4	9.30	152	181355	50.00	ug/L	0.00
System Monitoring Compounds						
42) dibromofluoromethane (s)	3.96	113	117932	51.19	ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 102.38%			
50) 1,2-dichloroethane-d4 (s)	4.28	65	124351	49.88	ug/L	0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 99.76%			
72) toluene-d8 (s)	6.05	98	484495	50.90	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 101.80%			
95) 4-bromofluorobenzene (s)	8.37	95	168593	50.89	ug/L	0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 101.78%			
Target Compounds						Qvalue
18) acetonitrile	2.49	41	88696	551.55	ug/L	97
31) acrylonitrile	2.78	53	27097	67.46	ug/L	87
78) tetrachloroethene	6.59	166	131769	57.15	ug/L	97
110) 1,2,3-trimethylbenzene	9.33	105	452836	57.91	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V3C7415\
Data File : 3C167237.D
Acq On : 16 Jun 2021 10:49 pm
Operator : PrashanS
Sample : ICV7415-50
Misc : MS50065,V3C7415,5.0,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 28 17:57:25 2021
Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Mon Jun 28 17:56:55 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v3c7462\
Data File : 3c168620.d
Acq On : 19 Aug 2021 11:03 am
Operator : PrashanS
Sample : cc7415-50 Inst : MS3C
Misc : MS52986,V3C7462,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Results File: M3C7415.RES
Quant Time: Aug 20 01:44:25 2021
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Mon Jun 28 17:56:55 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	2.564	65	64571	500.00	ug/L		0.00
5) pentafluorobenzene	4.002	168	267922	50.00	ug/L		0.00
49) 1,4-difluorobenzene	4.661	114	410422	50.00	ug/L		0.00
71) chlorobenzene-d5	7.370	117	356389	50.00	ug/L		0.00
94) 1,4-dichlorobenzene-d4	9.300	152	175866	50.00	ug/L		0.00
System Monitoring Compounds							
42) dibromofluoromethane (s)	3.965	113	111765	48.46	ug/L		0.00
Spiked Amount 50.000	Range 72 - 130		Recovery = 96.92%				
50) 1,2-dichloroethane-d4 (s)	4.279	65	117532	48.29	ug/L		0.00
Spiked Amount 50.000	Range 75 - 131		Recovery = 96.58%				
72) toluene-d8 (s)	6.052	98	478913	50.90	ug/L		0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 101.80%				
95) 4-bromofluorobenzene (s)	8.369	95	171964	53.53	ug/L		0.00
Spiked Amount 50.000	Range 60 - 141		Recovery = 107.06%				
Target Compounds							Qvalue
3) tertiary butyl alcohol	2.626	59	33660	258.45	ug/L		93
4) 1,4-dioxane	5.257	88	24601	1354.57	ug/L		86
6) dichlorodifluoromethane	1.078	85	101035	39.05	ug/L		99
7) chloromethane	1.235	50	142313	51.91	ug/L		100
8) 1,3-butadiene	1.314	54	96164	51.16	ug/L		99
9) vinyl chloride	1.293	62	124484	51.91	ug/L		99
10) bromomethane	1.533	94	48829	34.34	ug/L		99
11) chloroethane	1.607	64	76234	51.19	ug/L		98
12) trichlorofluoromethane	1.763	101	128664	42.64	ug/L		99
13) ethyl ether	1.978	74	51449	52.84	ug/L	#	81
14) acrolein	2.124	56	11576	52.68	ug/L		93
15) freon 113	2.119	151	69772	45.07	ug/L		98
16) 1,1-dichloroethene	2.145	96	81213	50.18	ug/L		100
17) acetone	2.234	43	78364	200.18	ug/L		97
18) acetonitrile	2.490	41	104753	650.78	ug/L		99
19) iodomethane	2.276	142	97895	41.25	ug/L		93
20) carbon disulfide	2.297	76	273694	45.75	ug/L		98
21) methylene chloride	2.548	84	93405	48.95	ug/L		97
22) methyl acetate	2.449	43	59264	53.11	ug/L		98
23) methyl tert butyl ether	2.689	73	224223	49.93	ug/L		97
24) trans-1,2-dichloroethene	2.715	96	97204	50.13	ug/L		97
25) hexane	2.857	57	178050	48.77	ug/L		96
26) di-isopropyl ether	3.050	45	353532	57.56	ug/L		97
27) ethyl tert-butyl ether	3.343	59	303236	54.26	ug/L		98
28) 2-butanone	3.568	72	35014	230.50	ug/L		99
29) 1,1-dichloroethane	3.071	63	181106	53.20	ug/L		97
30) chloroprene	3.113	53	153734	52.27	ug/L		98
31) acrylonitrile	2.778	53	22658	56.36	ug/L		93
32) vinyl acetate	3.097	86	21540	64.17	ug/L	#	63
33) ethyl acetate	3.589	45	12486	57.19	ug/L		88
34) 2,2-dichloropropane	3.516	77	135119	49.43	ug/L		99
35) cis-1,2-dichloroethene	3.552	96	105850	50.63	ug/L		98
36) propionitrile	3.683	54	113232	626.67	ug/L		99
37) bromochloromethane	3.761	130	57488	48.95	ug/L		91
38) tetrahydrofuran	3.756	42	25745	58.75	ug/L		96
39) chloroform	3.819	83	166228	45.69	ug/L		98
40) tert-butyl formate	3.824	59	46837	72.24	ug/L		81
41) isobutyl alcohol	4.237	41	136516	483.81	ug/L		91
43) methacrylonitrile	3.782	67	33137	57.82	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v3c7462\
Data File : 3c168620.d
Acq On : 19 Aug 2021 11:03 am
Operator : PrashanS
Sample : cc7415-50 Inst : MS3C
Misc : MS52986,V3C7462,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Results File: M3C7415.RES
Quant Time: Aug 20 01:44:25 2021
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Mon Jun 28 17:56:55 2021
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	1,1,1-trichloroethane	3.934	97	138481	45.78	ug/L		96
45)	cyclohexane	3.918	84	152789	49.53	ug/L		94
46)	1,1-dichloropropene	4.080	110	48866	49.65	ug/L		99
47)	tert-amyl alcohol	4.300	59	25513	275.92	ug/L	#	73
48)	carbon tetrachloride	4.044	119	112904	42.43	ug/L		99
51)	2,2,4-trimethylpentane	4.237	57	464950	52.72	ug/L		98
52)	tert-amyl methyl ether	4.331	87	83889	54.15	ug/L		93
53)	n-butyl alcohol	4.870	56	108949	2622.63	ug/L		100
54)	benzene	4.258	78	415049	52.10	ug/L		99
55)	heptane	4.420	57	93305	49.77	ug/L		96
56)	isopropyl acetate	4.331	87	83889	54.15	ug/L		97
57)	1,2-dichloroethane	4.352	62	110247	44.04	ug/L		100
58)	trichloroethene	4.875	95	101258	47.89	ug/L		99
60)	2-nitropropane	5.717	41	25705	46.21	ug/L		95
61)	2-chloroethyl vinyl ether	5.733	63	285851	286.16	ug/L		99
62)	methyl methacrylate	5.236	100	21914	54.14	ug/L	#	93
63)	1,2-dichloropropane	5.137	63	105522	55.01	ug/L		89
64)	methylcyclohexane	4.980	83	187615	49.24	ug/L		96
65)	dibromomethane	5.268	93	48930	49.86	ug/L		99
66)	bromodichloromethane	5.419	83	119546	47.91	ug/L		98
67)	epichlorohydrin	5.812	57	41002	310.87	ug/L		99
68)	cis-1,3-dichloropropene	5.859	75	161833	53.82	ug/L		96
69)	4-methyl-2-pentanone	5.995	85	53713	233.42	ug/L		97
70)	3-methyl-1-butanol	6.084	55	60993	1048.91	ug/L		98
73)	toluene	6.115	92	256777	51.01	ug/L		98
74)	trans-1,3-dichloropropene	6.408	75	128204	50.67	ug/L		97
75)	ethyl methacrylate	6.434	69	112433	55.71	ug/L		98
76)	1,1,2-trichloroethane	6.570	83	65105	52.32	ug/L		95
77)	2-hexanone	6.769	58	119008	238.57	ug/L		97
78)	tetrachloroethene	6.596	166	106810	46.87	ug/L		100
79)	1,3-dichloropropane	6.722	76	134701	51.54	ug/L		97
80)	butyl acetate	6.863	56	58749	60.16	ug/L		93
81)	dibromochloromethane	6.889	129	82423	47.23	ug/L		99
82)	1,2-dibromoethane	6.994	107	73121	50.79	ug/L		96
83)	n-butyl ether	7.443	57	489934	60.19	ug/L		97
84)	chlorobenzene	7.396	112	259565	48.37	ug/L		97
85)	1,1,1,2-tetrachloroethane	7.480	131	90242	48.45	ug/L		99
86)	ethylbenzene	7.464	91	475767	49.01	ug/L		99
87)	m,p-xylene	7.569	106	366016	99.51	ug/L		97
88)	o-xylene	7.904	91	372903	50.31	ug/L		100
89)	styrene	7.930	104	306784	50.36	ug/L		99
90)	bromoform	8.108	173	53709	46.92	ug/L		96
91)	butyl acrylate	7.898	55	155615	50.04	ug/L		98
92)	isopropylbenzene	8.202	105	470370	48.88	ug/L		99
93)	cis-1,4-dichloro-2-butene	8.333	53	29033	50.61	ug/L		88
96)	bromobenzene	8.479	156	110597	48.19	ug/L		94
97)	1,1,2,2-tetrachloroethane	8.526	83	89900	53.47	ug/L		99
98)	trans-1,4-dichloro-2-b...	8.578	88	12626	54.23	ug/L		89
99)	1,2,3-trichloropropane	8.563	110	25997	51.90	ug/L		97
100)	n-propylbenzene	8.542	91	563231	51.57	ug/L		100
101)	2-chlorotoluene	8.631	126	109740	50.14	ug/L		99
102)	4-chlorotoluene	8.730	126	112754	49.34	ug/L		94
103)	1,3,5-trimethylbenzene	8.693	105	382914	51.10	ug/L		100
104)	tert-butylbenzene	8.939	119	337789	49.67	ug/L		99
105)	1,2,4-trimethylbenzene	8.992	105	388032	51.01	ug/L		98
106)	sec-butylbenzene	9.117	105	514513	51.14	ug/L		99
107)	1,3-dichlorobenzene	9.243	146	215119	47.20	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v3c7462\
Data File : 3c168620.d
Acq On : 19 Aug 2021 11:03 am
Operator : PrashanS
Sample : cc7415-50 Inst : MS3C
Misc : MS52986,V3C7462,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Results File: M3C7415.RES
Quant Time: Aug 20 01:44:25 2021
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Mon Jun 28 17:56:55 2021
Response via : Initial Calibration

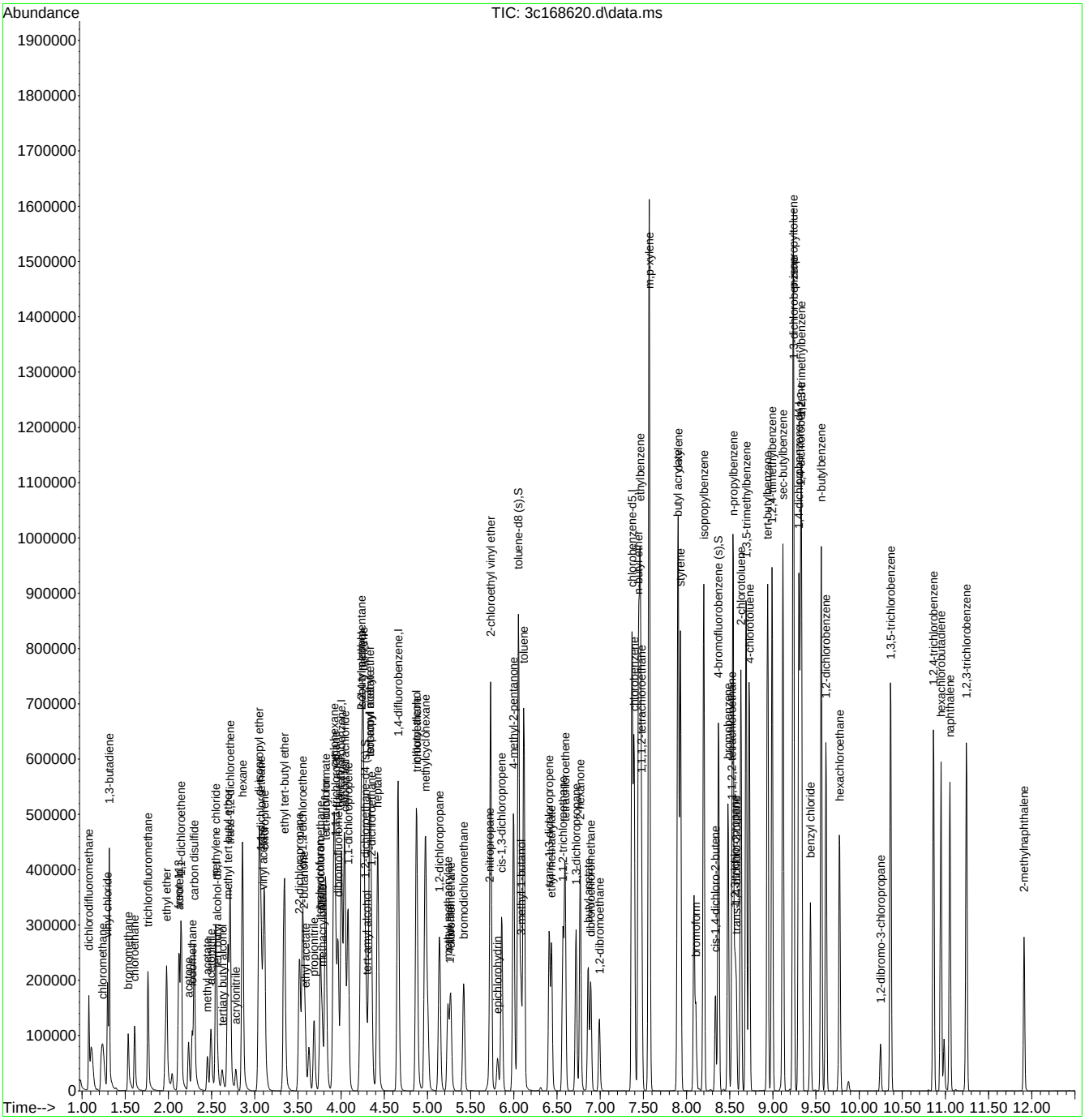
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) p-isopropyltoluene	9.237	119	435271	49.44	ug/L	99
109) 1,4-dichlorobenzene	9.321	146	216132	46.78	ug/L	99
110) 1,2,3-trimethylbenzene	9.332	105	394523	52.03	ug/L	100
111) 1,2-dichlorobenzene	9.614	146	197600	48.24	ug/L	99
112) n-butylbenzene	9.562	92	226958	50.05	ug/L	99
113) 1,2-dibromo-3-chloropr...	10.252	157	18677	48.58	ug/L	91
114) 1,3,5-trichlorobenzene	10.367	180	185881	49.87	ug/L	99
115) 1,2,4-trichlorobenzene	10.859	180	159852	48.05	ug/L	99
116) hexachlorobutadiene	10.948	225	99442	46.45	ug/L	98
117) naphthalene	11.052	128	319786	53.29	ug/L	99
118) 1,2,3-trichlorobenzene	11.241	180	148573	49.07	ug/L	99
119) hexachloroethane	9.776	201	65218	49.81	ug/L	98
120) benzyl chloride	9.436	91	177422	54.54	ug/L	100
121) 2-methylnaphthalene	11.910	142	98375	24.82	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\2021\8_aug\8-20-2021\v3c7462\
Data File : 3c168620.d
Acq On : 19 Aug 2021 11:03 am
Operator : PrashanS
Sample : cc7415-50 Inst : MS3C
Misc : MS52986,V3C7462,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M3C7415.M
Quant Results File: M3C7415.RES
Quant Time: Aug 20 01:44:25 2021
Quant Title : Method SW846 8260C/D, Rxi624 20m x 0.18mm x 1.0um
QLast Update : Mon Jun 28 17:56:55 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109987.D
Acq On : 19 May 2021 8:33 pm
Operator : EddieH
Sample : IC4892-0.2
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 21 16:33:10 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	8.626	65	321009	500.00	ug/L		0.00
5) pentafluorobenzene	11.116	168	449482	50.00	ug/L		0.00
52) 1,4-difluorobenzene	12.008	114	615324	50.00	ug/L		0.00
74) chlorobenzene-d5	14.902	117	495165	50.00	ug/L		0.00
97) 1,4-dichlorobenzene-d4	17.004	152	207112	50.00	ug/L		0.00
System Monitoring Compounds							
44) dibromofluoromethane (s)	11.116	113	213029	50.32	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.64%				
53) 1,2-dichloroethane-d4 (s)	11.541	65	227336	52.63	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 105.26%				
75) toluene-d8 (s)	13.544	98	672117	50.21	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.42%				
98) 4-bromofluorobenzene (s)	15.940	95	230394	52.44	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 104.88%				
Target Compounds							Qvalue
8) chloromethane	5.103	50	944	0.23	ug/L	#	48
10) 1,3-butadiene	5.454	54	781	0.23	ug/L	#	57
22) carbon disulfide	8.380	76	2297	0.25	ug/L		77
25) methyl tert butyl ether	9.140	73	2486	0.24	ug/L		72
26) trans-1,2-dichloroethene	9.166	96	795	0.24	ug/L	#	58
27) di-isopropyl ether	9.832	45	2166	0.21	ug/L		89
29) 1,1-dichloroethane	9.769	63	997	0.17	ug/L		81
30) chloroprene	9.926	53	742	0.16	ug/L	#	64
34) ethyl tert-butyl ether	10.330	59	2000	0.18	ug/L		92
36) 2,2-dichloropropane	10.582	77	1072	0.21	ug/L		74
46) 1,1,1-trichloroethane	11.227	97	1075	0.19	ug/L	#	52
47) cyclohexane	11.342	84	787	0.16	ug/L	#	63
48) 1,1-dichloropropene	11.415	75	836	0.18	ug/L	#	40
50) carbon tetrachloride	11.452	117	859	0.17	ug/L		90
55) 2,2,4-trimethylpentane	11.746	57	1551	0.20	ug/L		85
56) benzene	11.672	78	2531	0.20	ug/L		99
66) 1,2-dichloropropane	12.569	63	565	0.17	ug/L		50
67) dibromomethane	12.689	93	550	0.22	ug/L		87
68) methylcyclohexane	12.600	83	814	0.16	ug/L		78
69) bromodichloromethane	12.815	83	1058	0.21	ug/L		85
71) cis-1,3-dichloropropene	13.250	75	1023	0.19	ug/L		75
72) 4-methyl-2-pentanone	13.350	58	1016	0.54	ug/L		89
76) toluene	13.612	92	1520	0.19	ug/L		97
77) trans-1,3-dichloropropene	13.764	75	1003	0.19	ug/L	#	78
79) 1,1,2-trichloroethane	13.953	83	491	0.17	ug/L	#	70
80) tetrachloroethene	14.168	164	470	0.16	ug/L		81
81) 1,3-dichloropropane	14.115	76	892	0.17	ug/L	#	62
84) dibromochloromethane	14.357	129	798	0.20	ug/L		86
86) n-butyl ether	14.918	57	2550	0.20	ug/L	#	1
87) chlorobenzene	14.933	112	1740	0.21	ug/L		96
88) 1,1,1,2-tetrachloroethane	14.975	131	547	0.17	ug/L		97
89) ethylbenzene	15.007	91	3038	0.22	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109987.D
Acq On : 19 May 2021 8:33 pm
Operator : EddieH
Sample : IC4892-0.2
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 21 16:33:10 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

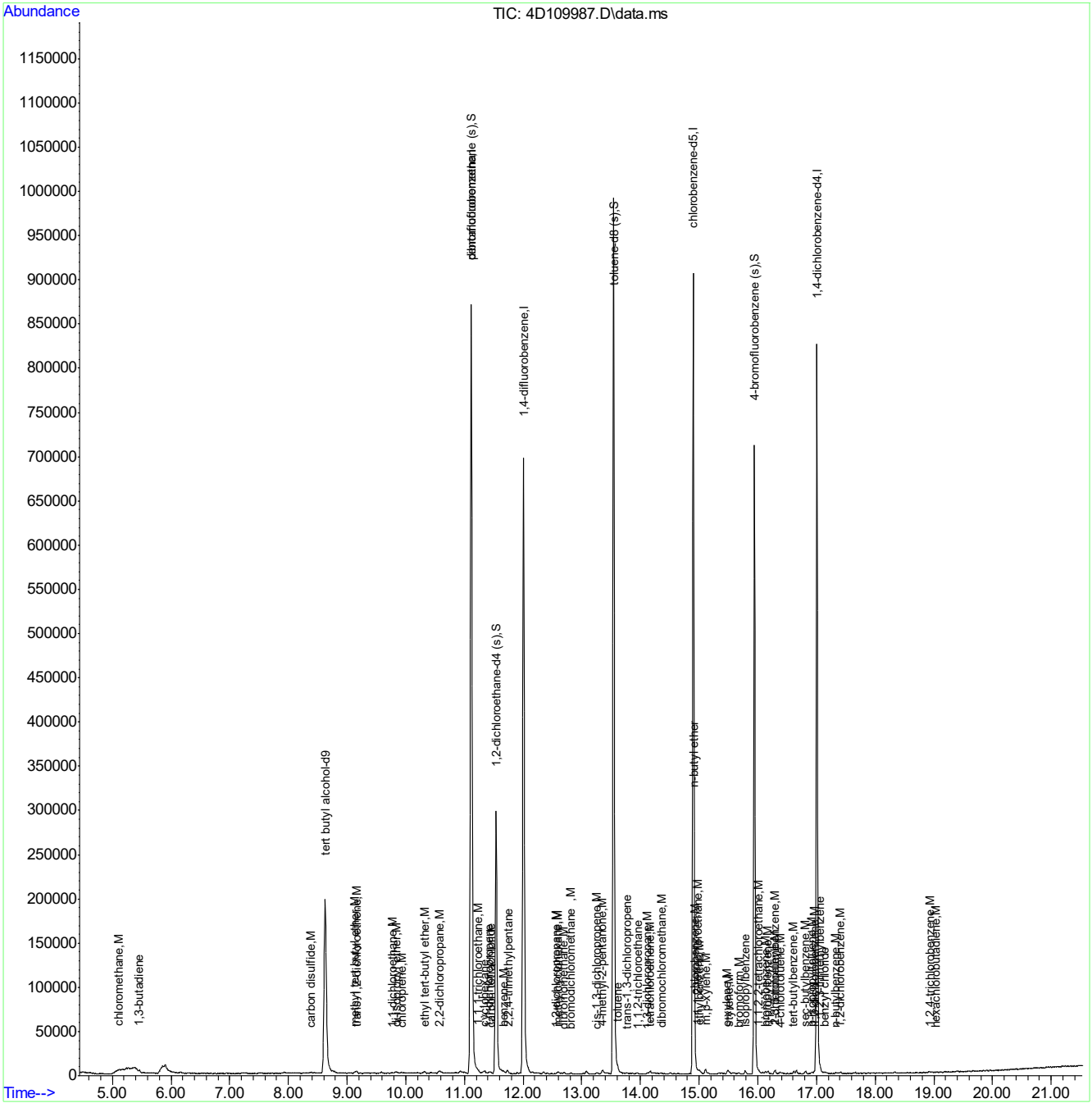
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
90)	m,p-xylene	15.112	106	2181	0.41	ug/L		90
91)	o-xylene	15.479	106	994	0.19	ug/L	#	71
92)	styrene	15.510	104	1469	0.16	ug/L		77
93)	bromoform	15.678	173	600	0.18	ug/L		86
95)	isopropylbenzene	15.788	105	2501	0.20	ug/L		98
99)	bromobenzene	16.129	156	820	0.23	ug/L	#	69
100)	1,1,2,2-tetrachloroethane	16.008	83	909	0.20	ug/L		73
103)	n-propylbenzene	16.166	91	3328	0.24	ug/L		95
104)	2-chlorotoluene	16.291	126	485	0.17	ug/L		85
105)	4-chlorotoluene	16.386	91	2292	0.26	ug/L		90
106)	1,3,5-trimethylbenzene	16.291	105	2055	0.22	ug/L		89
107)	tert-butylbenzene	16.611	134	353	0.20	ug/L	#	62
109)	sec-butylbenzene	16.810	105	2576	0.24	ug/L		95
110)	1,3-dichlorobenzene	16.962	146	1293	0.23	ug/L		85
111)	p-isopropyltoluene	16.921	119	1851	0.20	ug/L		94
113)	1,2,3-trimethylbenzene	17.052	105	2078	0.22	ug/L		82
114)	benzyl chloride	17.141	91	1730	0.21	ug/L		61
115)	1,2-dichlorobenzene	17.408	146	1111	0.20	ug/L		84
116)	n-butylbenzene	17.329	92	657	0.17	ug/L	#	75
120)	1,2,4-trichlorobenzene	18.934	180	556	0.21	ug/L	#	84
121)	hexachlorobutadiene	19.033	225	239	0.18	ug/L	#	19

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109987.D
Acq On : 19 May 2021 8:33 pm
Operator : EddieH
Sample : IC4892-0.2
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 21 16:33:10 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109988.D
Acq On : 19 May 2021 9:02 pm
Operator : EddieH
Sample : IC4892-0.5
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 21 16:34:02 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	8.626	65	323735	500.00	ug/L		0.00
5) pentafluorobenzene	11.116	168	452866	50.00	ug/L		0.00
52) 1,4-difluorobenzene	12.008	114	621544	50.00	ug/L		0.00
74) chlorobenzene-d5	14.902	117	496769	50.00	ug/L		0.00
97) 1,4-dichlorobenzene-d4	17.004	152	205290	50.00	ug/L		0.00
System Monitoring Compounds							
44) dibromofluoromethane (s)	11.116	113	213647	50.09	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.18%				
53) 1,2-dichloroethane-d4 (s)	11.541	65	229267	52.55	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 105.10%				
75) toluene-d8 (s)	13.544	98	677700	50.47	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.94%				
98) 4-bromofluorobenzene (s)	15.940	95	230958	53.04	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 106.08%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	8.773	59	2080	2.43	ug/L		71
3) ethanol	7.216	45	4118	51.94	ug/L		93
6) chlorodifluoromethane	4.646	51	2041	0.52	ug/L		62
7) dichlorodifluoromethane	4.610	85	2590	0.45	ug/L		88
8) chloromethane	5.108	50	2492	0.60	ug/L		76
9) vinyl chloride	5.354	62	2149	0.49	ug/L		89
10) 1,3-butadiene	5.454	54	1970	0.56	ug/L	#	81
12) chloroethane	6.382	64	959	0.41	ug/L		65
13) trichlorofluoromethane	6.943	101	2829	0.45	ug/L		86
14) vinyl bromide	6.801	106	1143	0.41	ug/L		90
17) freon 113	7.929	151	1265	0.43	ug/L	#	82
18) 1,1-dichloroethene	7.934	96	1912	0.64	ug/L	#	65
22) carbon disulfide	8.379	76	5126	0.55	ug/L		95
23) methylene chloride	8.705	84	2040	0.59	ug/L		88
25) methyl tert butyl ether	9.140	73	5507	0.53	ug/L		90
26) trans-1,2-dichloroethene	9.161	96	2077	0.63	ug/L	#	72
27) di-isopropyl ether	9.821	45	5455	0.53	ug/L		72
29) 1,1-dichloroethane	9.764	63	2842	0.49	ug/L		93
30) chloroprene	9.921	53	2079	0.43	ug/L		90
32) hexane	9.591	56	1031	0.49	ug/L	#	60
34) ethyl tert-butyl ether	10.319	59	5354	0.48	ug/L		96
36) 2,2-dichloropropane	10.582	77	2726	0.53	ug/L		94
37) cis-1,2-dichloroethene	10.561	96	2107	0.57	ug/L	#	69
39) propionitrile	10.576	54	3202	4.03	ug/L		83
40) bromochloromethane	10.859	128	817	0.41	ug/L	#	76
41) tetrahydrofuran	10.954	72	480	0.64	ug/L	#	64
42) chloroform	10.922	85	2625	0.61	ug/L		99
43) t-butyl formate	11.006	59	1492	0.57	ug/L		92
46) 1,1,1-trichloroethane	11.226	97	2926	0.51	ug/L		73
47) cyclohexane	11.342	84	2326	0.47	ug/L	#	66
48) 1,1-dichloropropene	11.420	75	2325	0.50	ug/L		92
50) carbon tetrachloride	11.447	117	2444	0.47	ug/L		87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109988.D
Acq On : 19 May 2021 9:02 pm
Operator : EddieH
Sample : IC4892-0.5
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 21 16:34:02 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
55)	2,2,4-trimethylpentane	11.746	57	4250	0.55	ug/L		91
56)	benzene	11.672	78	6306	0.50	ug/L		97
57)	tert-amyl methyl ether	11.730	87	1194	0.44	ug/L		85
58)	heptane	11.903	71	763	0.45	ug/L		80
60)	1,2-dichloroethane	11.635	62	2796	0.55	ug/L		83
61)	trichloroethene	12.348	130	1716	0.43	ug/L		94
64)	2-chloroethyl vinyl ether	13.056	63	5551	2.15	ug/L		96
66)	1,2-dichloropropane	12.569	63	1542	0.46	ug/L		89
67)	dibromomethane	12.695	93	1168	0.46	ug/L		94
68)	methylcyclohexane	12.595	83	2451	0.49	ug/L		87
69)	bromodichloromethane	12.815	83	2493	0.50	ug/L		96
71)	cis-1,3-dichloropropene	13.250	75	2700	0.49	ug/L		93
72)	4-methyl-2-pentanone	13.339	58	3677	1.92	ug/L	#	74
73)	3-methyl-1-butanol	13.350	70	1583	8.48	ug/L	#	66
76)	toluene	13.612	92	3693	0.47	ug/L		88
77)	trans-1,3-dichloropropene	13.759	75	2502	0.47	ug/L		94
78)	ethyl methacrylate	13.801	69	2143	0.40	ug/L		86
79)	1,1,2-trichloroethane	13.937	83	1333	0.47	ug/L		90
80)	tetrachloroethene	14.157	164	1302	0.45	ug/L		85
81)	1,3-dichloropropane	14.115	76	2540	0.49	ug/L	#	62
82)	2-hexanone	14.142	58	3395	1.60	ug/L	#	85
84)	dibromochloromethane	14.351	129	1985	0.49	ug/L		90
85)	1,2-dibromoethane	14.498	107	1967	0.45	ug/L		79
86)	n-butyl ether	14.902	57	6222	0.48	ug/L	#	1
87)	chlorobenzene	14.933	112	4108	0.48	ug/L		92
88)	1,1,1,2-tetrachloroethane	14.975	131	1582	0.48	ug/L		80
89)	ethylbenzene	15.007	91	6816	0.48	ug/L		94
90)	m,p-xylene	15.096	106	4960	0.93	ug/L		95
91)	o-xylene	15.479	106	2309	0.45	ug/L		89
92)	styrene	15.489	104	4053	0.45	ug/L		98
93)	bromoform	15.683	173	1600	0.48	ug/L		88
94)	butyl acrylate	15.332	55	3549	0.45	ug/L	#	76
95)	isopropylbenzene	15.788	105	5977	0.47	ug/L		95
99)	bromobenzene	16.129	156	1672	0.48	ug/L		94
100)	1,1,2,2-tetrachloroethane	15.998	83	2205	0.50	ug/L		94
102)	1,2,3-trichloropropane	16.076	110	547	0.43	ug/L		86
103)	n-propylbenzene	16.160	91	6760	0.50	ug/L		98
104)	2-chlorotoluene	16.281	126	1358	0.48	ug/L	#	85
105)	4-chlorotoluene	16.375	91	4738	0.54	ug/L		86
106)	1,3,5-trimethylbenzene	16.296	105	4782	0.52	ug/L		95
107)	tert-butylbenzene	16.611	134	835	0.49	ug/L	#	41
108)	1,2,4-trimethylbenzene	16.653	105	4939	0.52	ug/L		95
109)	sec-butylbenzene	16.810	105	5327	0.49	ug/L		96
110)	1,3-dichlorobenzene	16.962	146	2646	0.47	ug/L		94
111)	p-isopropyltoluene	16.920	119	4419	0.49	ug/L		97
112)	1,4-dichlorobenzene	17.031	146	2685	0.46	ug/L		81
113)	1,2,3-trimethylbenzene	17.051	105	4687	0.49	ug/L		90
114)	benzyl chloride	17.130	91	4028	0.49	ug/L		88
115)	1,2-dichlorobenzene	17.403	146	2492	0.46	ug/L		90
116)	n-butylbenzene	17.314	92	1773	0.47	ug/L		91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109988.D
Acq On : 19 May 2021 9:02 pm
Operator : EddieH
Sample : IC4892-0.5
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 21 16:34:02 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

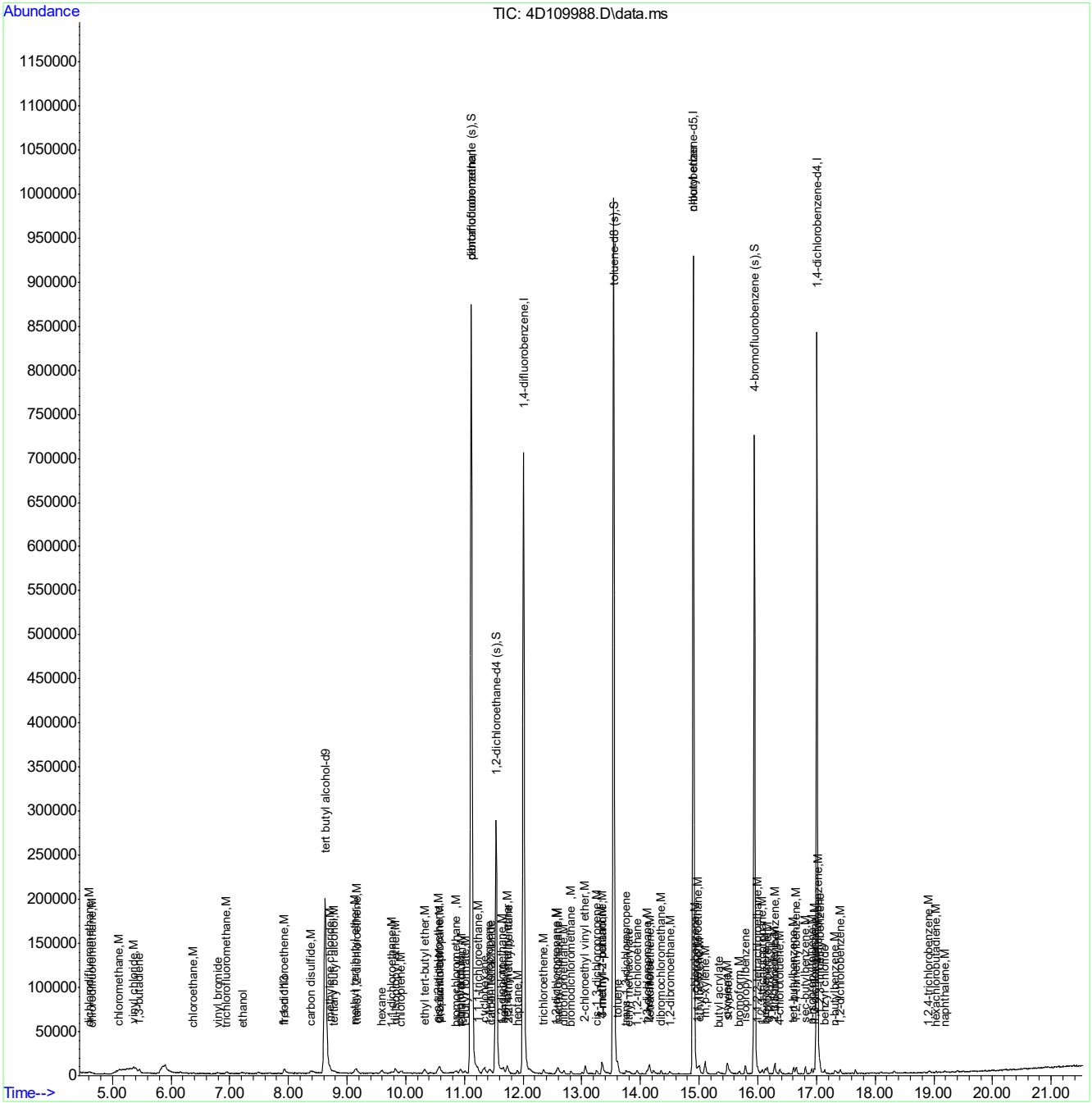
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
120) 1,2,4-trichlorobenzene	18.913	180	1087	0.42	ug/L	97
121) hexachlorobutadiene	19.033	225	552	0.42	ug/L	87
122) naphthalene	19.191	128	2922	0.41	ug/L	70

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109988.D
Acq On : 19 May 2021 9:02 pm
Operator : EddieH
Sample : IC4892-0.5
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 21 16:34:02 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109989.D
Acq On : 19 May 2021 9:30 pm
Operator : EddieH
Sample : IC4892-1
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 21 16:34:53 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.631	65	316779	500.00	ug/L	0.00
5) pentafluorobenzene	11.116	168	451325	50.00	ug/L	0.00
52) 1,4-difluorobenzene	12.008	114	615996	50.00	ug/L	0.00
74) chlorobenzene-d5	14.902	117	494932	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.004	152	206112	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	11.116	113	211757	49.82	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.64%			
53) 1,2-dichloroethane-d4 (s)	11.541	65	227021	52.50	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 105.00%			
75) toluene-d8 (s)	13.544	98	676130	50.54	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.08%			
98) 4-bromofluorobenzene (s)	15.940	95	229257	52.44	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 104.88%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.762	59	3628	4.32	ug/L	85
3) ethanol	7.200	45	7861	101.32	ug/L	88
4) 1,4-dioxane	12.674	88	1355	18.66	ug/L	94
6) chlorodifluoromethane	4.657	51	3750	0.96	ug/L	91
7) dichlorodifluoromethane	4.605	85	5780	1.02	ug/L	99
8) chloromethane	5.113	50	4976	1.20	ug/L	94
9) vinyl chloride	5.370	62	4548	1.04	ug/L	97
10) 1,3-butadiene	5.470	54	3748	1.08	ug/L	92
11) bromomethane	6.162	94	2676	0.98	ug/L	87
12) chloroethane	6.387	64	2355	1.01	ug/L	90
13) trichlorofluoromethane	6.953	101	6369	1.01	ug/L	94
14) vinyl bromide	6.801	106	2784	0.99	ug/L	90
17) freon 113	7.929	151	2672	0.92	ug/L	93
18) 1,1-dichloroethene	7.934	96	3299	1.11	ug/L	91
19) acetone	7.965	43	6555	3.87	ug/L	89
20) acetonitrile	8.406	41	7757	12.16	ug/L	82
22) carbon disulfide	8.385	76	9314	1.00	ug/L	90
23) methylene chloride	8.699	84	3407	1.00	ug/L	91
25) methyl tert butyl ether	9.140	73	9904	0.95	ug/L	96
26) trans-1,2-dichloroethene	9.166	96	3284	1.00	ug/L	95
27) di-isopropyl ether	9.827	45	9337	0.91	ug/L	83
29) 1,1-dichloroethane	9.764	63	5318	0.93	ug/L	95
30) chloroprene	9.911	53	4293	0.89	ug/L	89
32) hexane	9.585	56	2030	0.97	ug/L	93
34) ethyl tert-butyl ether	10.319	59	9679	0.87	ug/L	96
36) 2,2-dichloropropane	10.576	77	5518	1.07	ug/L	69
37) cis-1,2-dichloroethene	10.555	96	3840	1.03	ug/L	89
39) propionitrile	10.571	54	6948	8.77	ug/L	91
40) bromochloromethane	10.860	128	1712	0.87	ug/L	94
41) tetrahydrofuran	10.938	72	904	1.21	ug/L #	41
42) chloroform	10.922	85	4257	1.00	ug/L	89
43) t-butyl formate	11.006	59	2866	1.10	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109989.D
Acq On : 19 May 2021 9:30 pm
Operator : EddieH
Sample : IC4892-1
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 21 16:34:53 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	methacrylonitrile	10.812	67	1701	0.88	ug/L	#	79
46)	1,1,1-trichloroethane	11.227	97	5285	0.93	ug/L		91
47)	cyclohexane	11.342	84	5281	1.06	ug/L	#	75
48)	1,1-dichloropropene	11.426	75	4198	0.91	ug/L		97
50)	carbon tetrachloride	11.452	117	4848	0.94	ug/L		96
54)	n-butyl alcohol	12.097	56	8439	41.82	ug/L		94
55)	2,2,4-trimethylpentane	11.740	57	7721	1.01	ug/L		95
56)	benzene	11.662	78	11399	0.91	ug/L		95
57)	tert-amyl methyl ether	11.730	87	2276	0.85	ug/L		94
58)	heptane	11.898	71	1589	0.94	ug/L		91
60)	1,2-dichloroethane	11.635	62	5007	0.99	ug/L		96
61)	trichloroethene	12.343	130	3473	0.88	ug/L		92
62)	ethyl acrylate	12.370	55	5780	0.96	ug/L		95
63)	2-nitropropane	12.999	43	1907	1.13	ug/L		93
64)	2-chloroethyl vinyl ether	13.051	63	11060	4.32	ug/L		97
66)	1,2-dichloropropane	12.569	63	3098	0.92	ug/L		94
67)	dibromomethane	12.695	93	2336	0.93	ug/L		84
68)	methylcyclohexane	12.600	83	4615	0.93	ug/L		93
69)	bromodichloromethane	12.810	83	4571	0.92	ug/L		93
70)	epichlorohydrin	13.145	57	2737	4.60	ug/L		92
71)	cis-1,3-dichloropropene	13.250	75	4977	0.92	ug/L		98
72)	4-methyl-2-pentanone	13.345	58	6756	3.56	ug/L		94
73)	3-methyl-1-butanol	13.339	70	3152	17.03	ug/L		92
76)	toluene	13.612	92	7010	0.89	ug/L		96
77)	trans-1,3-dichloropropene	13.754	75	4794	0.91	ug/L		96
78)	ethyl methacrylate	13.796	69	4600	0.85	ug/L		95
79)	1,1,2-trichloroethane	13.937	83	2512	0.89	ug/L		92
80)	tetrachloroethene	14.157	164	2626	0.91	ug/L		94
81)	1,3-dichloropropane	14.110	76	4719	0.92	ug/L	#	66
82)	2-hexanone	14.131	58	6985	3.30	ug/L		99
83)	butyl acetate	14.215	56	2606	0.88	ug/L	#	64
84)	dibromochloromethane	14.346	129	3861	0.95	ug/L		85
85)	1,2-dibromoethane	14.493	107	3845	0.89	ug/L		89
86)	n-butyl ether	14.897	57	11597	0.89	ug/L	#	1
87)	chlorobenzene	14.928	112	7509	0.89	ug/L		99
88)	1,1,1,2-tetrachloroethane	14.975	131	2995	0.91	ug/L		88
89)	ethylbenzene	15.002	91	12790	0.91	ug/L		98
90)	m,p-xylene	15.096	106	9548	1.80	ug/L		93
91)	o-xylene	15.473	106	4701	0.91	ug/L		88
92)	styrene	15.479	104	7592	0.84	ug/L		98
93)	bromoform	15.678	173	2844	0.85	ug/L		98
94)	butyl acrylate	15.316	55	6646	0.85	ug/L	#	94
95)	isopropylbenzene	15.783	105	11494	0.91	ug/L		94
99)	bromobenzene	16.129	156	3152	0.90	ug/L		95
100)	1,1,2,2-tetrachloroethane	15.998	83	4322	0.98	ug/L		97
102)	1,2,3-trichloropropane	16.076	110	1100	0.87	ug/L		82
103)	n-propylbenzene	16.155	91	13006	0.96	ug/L		98
104)	2-chlorotoluene	16.281	126	2561	0.90	ug/L	#	78
105)	4-chlorotoluene	16.370	91	8652	0.98	ug/L		98
106)	1,3,5-trimethylbenzene	16.291	105	8803	0.95	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109989.D
Acq On : 19 May 2021 9:30 pm
Operator : EddieH
Sample : IC4892-1
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 21 16:34:53 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

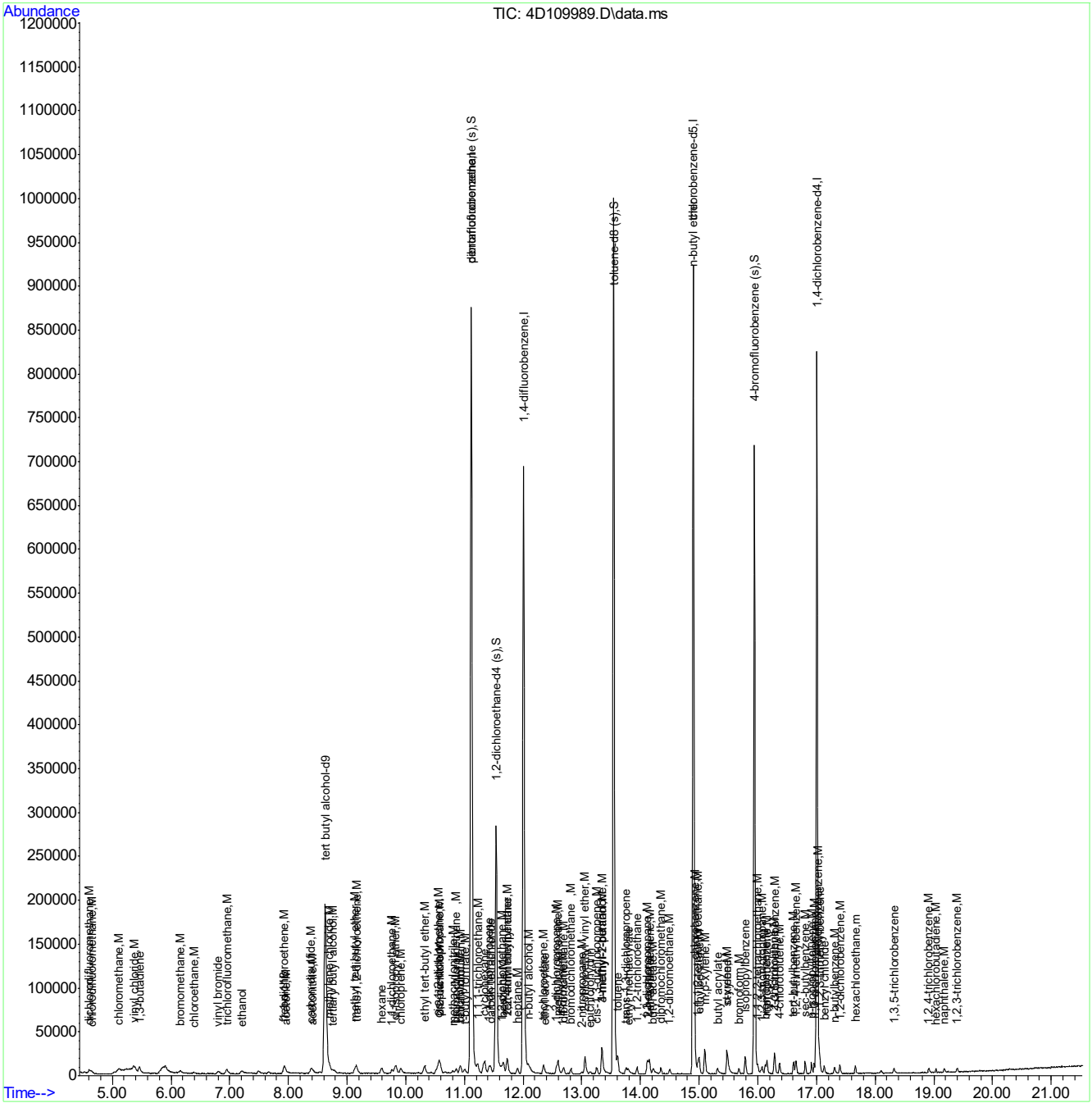
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) tert-butylbenzene	16.611	134	1543	0.90	ug/L	90
108) 1,2,4-trimethylbenzene	16.648	105	8762	0.92	ug/L	97
109) sec-butylbenzene	16.805	105	10011	0.92	ug/L	97
110) 1,3-dichlorobenzene	16.962	146	4853	0.85	ug/L	99
111) p-isopropyltoluene	16.920	119	8425	0.93	ug/L	96
112) 1,4-dichlorobenzene	17.031	146	5421	0.92	ug/L	83
113) 1,2,3-trimethylbenzene	17.052	105	8811	0.93	ug/L	97
114) benzyl chloride	17.130	91	7261	0.89	ug/L	91
115) 1,2-dichlorobenzene	17.398	146	4629	0.85	ug/L	97
116) n-butylbenzene	17.308	92	3225	0.84	ug/L	95
118) 1,3,5-trichlorobenzene	18.320	180	2515	0.80	ug/L	82
120) 1,2,4-trichlorobenzene	18.913	180	1970	0.76	ug/L	97
121) hexachlorobutadiene	19.033	225	1089	0.83	ug/L	82
122) naphthalene	19.175	128	5676	0.80	ug/L	95
123) 1,2,3-trichlorobenzene	19.395	180	1820	0.78	ug/L	97
124) hexachloroethane	17.665	201	1532	0.84	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109989.D
Acq On : 19 May 2021 9:30 pm
Operator : EddieH
Sample : IC4892-1
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 21 16:34:53 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109990.D
Acq On : 19 May 2021 9:59 pm
Operator : EddieH
Sample : IC4892-2
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 21 16:35:22 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	8.626	65	335370	500.00	ug/L		0.00
5) pentafluorobenzene	11.116	168	451522	50.00	ug/L		0.00
52) 1,4-difluorobenzene	12.008	114	624311	50.00	ug/L		0.00
74) chlorobenzene-d5	14.902	117	503439	50.00	ug/L		0.00
97) 1,4-dichlorobenzene-d4	17.004	152	218430	50.00	ug/L		0.00
System Monitoring Compounds							
44) dibromofluoromethane (s)	11.116	113	217214	51.08	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.16%				
53) 1,2-dichloroethane-d4 (s)	11.541	65	232693	53.10	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 106.20%				
75) toluene-d8 (s)	13.544	98	689185	50.64	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.28%				
98) 4-bromofluorobenzene (s)	15.940	95	236718	51.09	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.18%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	8.768	59	9517	10.72	ug/L		91
3) ethanol	7.179	45	17402	211.86	ug/L		98
4) 1,4-dioxane	12.668	88	3828	49.79	ug/L		89
6) chlorodifluoromethane	4.652	51	8772	2.25	ug/L		93
7) dichlorodifluoromethane	4.610	85	11398	2.00	ug/L		98
8) chloromethane	5.113	50	9426	2.27	ug/L		96
9) vinyl chloride	5.360	62	8883	2.03	ug/L		93
10) 1,3-butadiene	5.470	54	8187	2.35	ug/L	#	86
11) bromomethane	6.157	94	5600	2.05	ug/L		97
12) chloroethane	6.387	64	4647	1.99	ug/L		94
13) trichlorofluoromethane	6.953	101	12411	1.96	ug/L		93
14) vinyl bromide	6.801	106	5384	1.92	ug/L		90
15) ethyl ether	7.488	74	3825	1.99	ug/L		85
16) acrolein	7.735	56	1073	1.56	ug/L	#	46
17) freon 113	7.934	151	6090	2.09	ug/L		95
18) 1,1-dichloroethene	7.939	96	6592	2.21	ug/L		91
19) acetone	7.960	43	15014	8.86	ug/L		88
20) acetonitrile	8.401	41	15818	24.79	ug/L		93
21) iodomethane	8.217	142	2343	0.57	ug/L		88
22) carbon disulfide	8.385	76	20840	2.23	ug/L		100
23) methylene chloride	8.699	84	8001	2.34	ug/L		97
24) methyl acetate	8.532	43	7619	1.99	ug/L		90
25) methyl tert butyl ether	9.145	73	23545	2.26	ug/L		95
26) trans-1,2-dichloroethene	9.166	96	8002	2.43	ug/L		92
27) di-isopropyl ether	9.821	45	23425	2.27	ug/L		82
28) 2-butanone	10.513	72	5376	8.20	ug/L		98
29) 1,1-dichloroethane	9.764	63	12809	2.24	ug/L		97
30) chloroprene	9.905	53	10242	2.13	ug/L		89
31) acrylonitrile	9.051	53	2643	1.75	ug/L		84
32) hexane	9.591	56	4586	2.19	ug/L		87
33) vinyl acetate	9.806	86	1041	1.96	ug/L	#	66
34) ethyl tert-butyl ether	10.314	59	23880	2.14	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109990.D
Acq On : 19 May 2021 9:59 pm
Operator : EddieH
Sample : IC4892-2
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 21 16:35:22 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) ethyl acetate	10.576	70	1205	1.91	ug/L	#	30
36) 2,2-dichloropropane	10.576	77	11700	2.27	ug/L		99
37) cis-1,2-dichloroethene	10.545	96	8720	2.35	ug/L		91
38) methyl acrylate	10.660	55	10310	2.39	ug/L		98
39) propionitrile	10.561	54	17076	21.54	ug/L		96
40) bromochloromethane	10.860	128	4250	2.16	ug/L		94
41) tetrahydrofuran	10.943	72	1694	2.27	ug/L		89
42) chloroform	10.922	85	9726	2.28	ug/L		98
43) t-butyl formate	11.001	59	6644	2.54	ug/L		95
45) methacrylonitrile	10.802	67	3874	2.00	ug/L		90
46) 1,1,1-trichloroethane	11.232	97	12302	2.15	ug/L		93
47) cyclohexane	11.342	84	10156	2.04	ug/L		92
48) 1,1-dichloropropene	11.415	75	10011	2.18	ug/L		94
50) carbon tetrachloride	11.447	117	10890	2.11	ug/L		97
54) n-butyl alcohol	12.086	56	21083	103.08	ug/L		98
55) 2,2,4-trimethylpentane	11.740	57	16692	2.16	ug/L		96
56) benzene	11.667	78	27863	2.19	ug/L		98
57) tert-amyl methyl ether	11.725	87	5996	2.22	ug/L		94
58) heptane	11.903	71	3562	2.08	ug/L		92
59) isopropyl acetate	11.594	87	2162	2.13	ug/L	#	92
60) 1,2-dichloroethane	11.636	62	11754	2.28	ug/L		97
61) trichloroethene	12.343	130	7888	1.98	ug/L		93
62) ethyl acrylate	12.349	55	13529	2.21	ug/L		82
63) 2-nitropropane	12.993	43	4326	2.53	ug/L		98
64) 2-chloroethyl vinyl ether	13.046	63	27239	10.49	ug/L		99
65) methyl methacrylate	12.590	100	2237	1.76	ug/L	#	68
66) 1,2-dichloropropane	12.564	63	7103	2.09	ug/L		95
67) dibromomethane	12.695	93	5606	2.20	ug/L		93
68) methylcyclohexane	12.595	83	10372	2.07	ug/L		96
69) bromodichloromethane	12.815	83	10873	2.17	ug/L		99
70) epichlorohydrin	13.135	57	6788	11.25	ug/L		96
71) cis-1,3-dichloropropene	13.250	75	12236	2.23	ug/L		96
72) 4-methyl-2-pentanone	13.339	58	16880	8.77	ug/L		95
73) 3-methyl-1-butanol	13.329	70	7720	41.15	ug/L		91
76) toluene	13.612	92	16902	2.12	ug/L		94
77) trans-1,3-dichloropropene	13.748	75	11284	2.09	ug/L		95
78) ethyl methacrylate	13.780	69	10874	1.98	ug/L		93
79) 1,1,2-trichloroethane	13.937	83	5753	2.00	ug/L		98
80) tetrachloroethene	14.152	164	6191	2.11	ug/L		95
81) 1,3-dichloropropane	14.110	76	11321	2.17	ug/L		87
82) 2-hexanone	14.115	58	17637	8.19	ug/L		99
83) butyl acetate	14.210	56	6444	2.13	ug/L		89
84) dibromochloromethane	14.346	129	8954	2.17	ug/L		99
85) 1,2-dibromoethane	14.493	107	9097	2.08	ug/L		96
86) n-butyl ether	14.891	57	27387	2.07	ug/L		69
87) chlorobenzene	14.933	112	18056	2.10	ug/L		93
88) 1,1,1,2-tetrachloroethane	14.975	131	7194	2.14	ug/L		96
89) ethylbenzene	14.996	91	29935	2.09	ug/L		97
90) m,p-xylene	15.096	106	22258	4.13	ug/L		95
91) o-xylene	15.468	106	10932	2.08	ug/L		87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109990.D
Acq On : 19 May 2021 9:59 pm
Operator : EddieH
Sample : IC4892-2
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 21 16:35:22 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

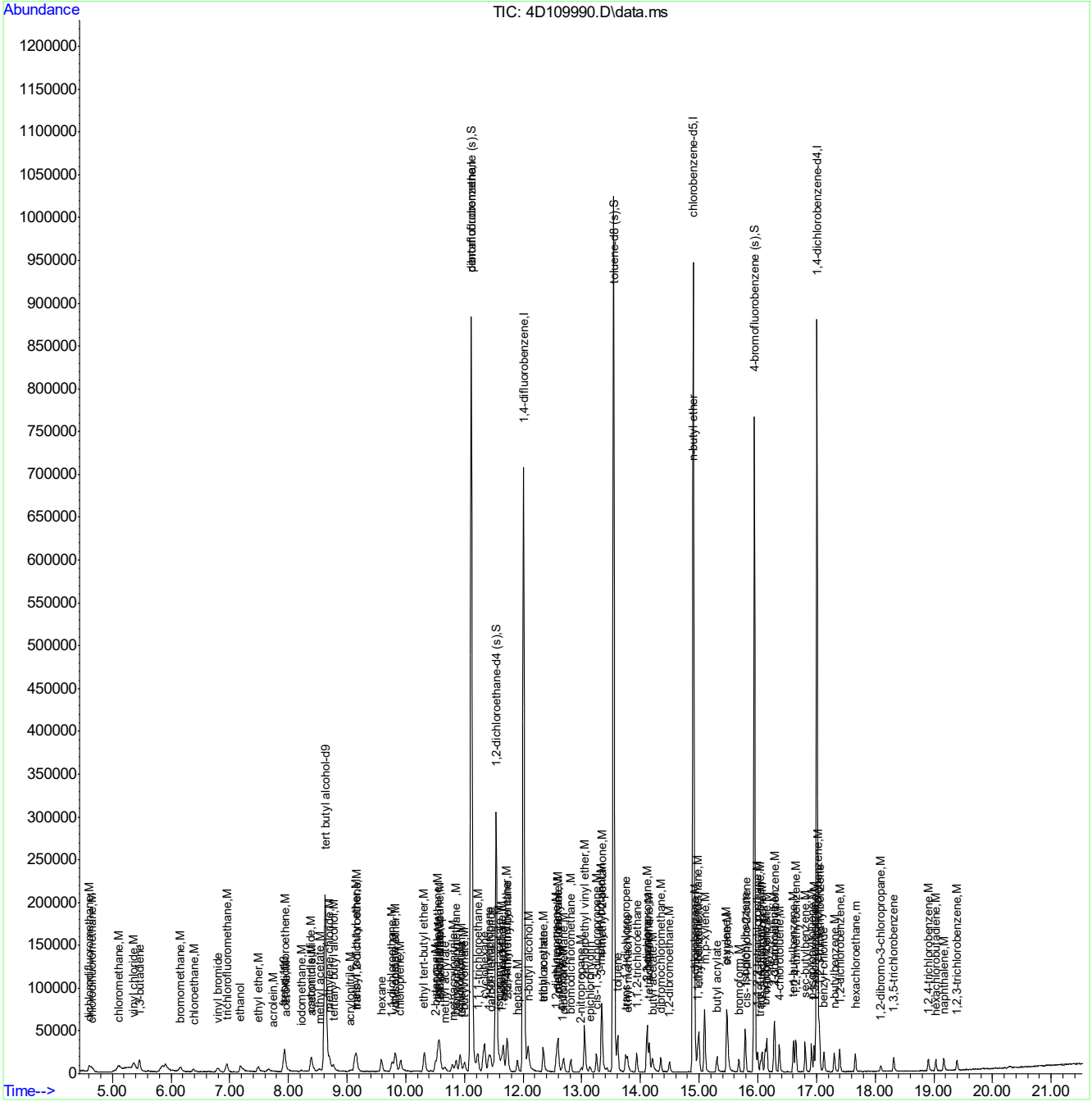
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	styrene	15.473	104	18852	2.06	ug/L		98
93)	bromoform	15.673	173	7025	2.07	ug/L		97
94)	butyl acrylate	15.306	55	15650	1.97	ug/L		96
95)	isopropylbenzene	15.783	105	26950	2.10	ug/L		99
96)	cis-1,4-dichloro-2-butene	15.798	88	3232	1.80	ug/L		89
99)	bromobenzene	16.129	156	7919	2.13	ug/L		86
100)	1,1,2,2-tetrachloroethane	15.992	83	10420	2.22	ug/L		99
101)	trans-1,4-dichloro-2-b...	16.045	53	2501	1.87	ug/L	#	81
102)	1,2,3-trichloropropane	16.076	110	2983	2.23	ug/L		98
103)	n-propylbenzene	16.155	91	30480	2.11	ug/L		100
104)	2-chlorotoluene	16.276	126	6687	2.21	ug/L	#	86
105)	4-chlorotoluene	16.370	91	19834	2.12	ug/L		96
106)	1,3,5-trimethylbenzene	16.291	105	20755	2.11	ug/L		94
107)	tert-butylbenzene	16.611	134	3571	1.97	ug/L		94
108)	1,2,4-trimethylbenzene	16.648	105	20442	2.03	ug/L		99
109)	sec-butylbenzene	16.805	105	23096	2.01	ug/L		98
110)	1,3-dichlorobenzene	16.957	146	12702	2.10	ug/L		100
111)	p-isopropyltoluene	16.915	119	18991	1.99	ug/L		97
112)	1,4-dichlorobenzene	17.031	146	13126	2.11	ug/L		98
113)	1,2,3-trimethylbenzene	17.052	105	21344	2.12	ug/L		99
114)	benzyl chloride	17.125	91	17317	1.99	ug/L		98
115)	1,2-dichlorobenzene	17.398	146	11644	2.02	ug/L		97
116)	n-butylbenzene	17.303	92	8099	2.00	ug/L		98
117)	1,2-dibromo-3-chloropr...	18.095	157	2543	1.86	ug/L		95
118)	1,3,5-trichlorobenzene	18.315	180	6465	1.93	ug/L		99
120)	1,2,4-trichlorobenzene	18.908	180	5129	1.86	ug/L		90
121)	hexachlorobutadiene	19.039	225	2859	2.05	ug/L		89
122)	naphthalene	19.170	128	13811	1.84	ug/L		98
123)	1,2,3-trichlorobenzene	19.395	180	4688	1.91	ug/L		95
124)	hexachloroethane	17.665	201	3850	1.99	ug/L		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109990.D
Acq On : 19 May 2021 9:59 pm
Operator : EddieH
Sample : IC4892-2
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 21 16:35:22 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109991.D
Acq On : 19 May 2021 10:27 pm
Operator : EddieH
Sample : IC4892-4
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 21 16:35:44 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	8.626	65	335331	500.00	ug/L		0.00
5) pentafluorobenzene	11.116	168	452942	50.00	ug/L		0.00
52) 1,4-difluorobenzene	12.008	114	618324	50.00	ug/L		0.00
74) chlorobenzene-d5	14.902	117	484791	50.00	ug/L		0.00
97) 1,4-dichlorobenzene-d4	17.004	152	201966	50.00	ug/L		0.00
System Monitoring Compounds							
44) dibromofluoromethane (s)	11.116	113	213192	49.98	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.96%				
53) 1,2-dichloroethane-d4 (s)	11.541	65	221442	51.02	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 102.04%				
75) toluene-d8 (s)	13.544	98	669231	51.07	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.14%				
98) 4-bromofluorobenzene (s)	15.940	95	229026	53.46	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 106.92%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	8.762	59	17996	20.26	ug/L		96
3) ethanol	7.179	45	33180	403.99	ug/L		97
4) 1,4-dioxane	12.668	88	7564	98.39	ug/L		99
6) chlorodifluoromethane	4.646	51	16107	4.11	ug/L		96
7) dichlorodifluoromethane	4.605	85	21459	3.76	ug/L		96
8) chloromethane	5.108	50	17335	4.16	ug/L		94
9) vinyl chloride	5.360	62	17714	4.03	ug/L		99
10) 1,3-butadiene	5.470	54	15394	4.41	ug/L		96
11) bromomethane	6.156	94	10708	3.91	ug/L		97
12) chloroethane	6.387	64	9645	4.11	ug/L		93
13) trichlorofluoromethane	6.948	101	25766	4.06	ug/L		99
14) vinyl bromide	6.801	106	11480	4.08	ug/L		94
15) ethyl ether	7.478	74	7516	3.90	ug/L		94
16) acrolein	7.714	56	2872	4.16	ug/L		97
17) freon 113	7.929	151	12321	4.22	ug/L		95
18) 1,1-dichloroethene	7.934	96	13242	4.42	ug/L		94
19) acetone	7.944	43	27516	16.19	ug/L		94
20) acetonitrile	8.390	41	28823	45.03	ug/L		93
21) iodomethane	8.217	142	7971	1.94	ug/L		92
22) carbon disulfide	8.380	76	39831	4.24	ug/L		98
23) methylene chloride	8.699	84	15094	4.39	ug/L		96
24) methyl acetate	8.521	43	17785	4.64	ug/L		94
25) methyl tert butyl ether	9.135	73	45443	4.35	ug/L		98
26) trans-1,2-dichloroethene	9.166	96	14771	4.46	ug/L		96
27) di-isopropyl ether	9.821	45	44670	4.32	ug/L		93
28) 2-butanone	10.508	72	9946	15.12	ug/L		92
29) 1,1-dichloroethane	9.764	63	25405	4.42	ug/L		98
30) chloroprene	9.911	53	19339	4.01	ug/L		98
31) acrylonitrile	9.045	53	5946	3.92	ug/L		84
32) hexane	9.585	56	8818	4.19	ug/L		98
33) vinyl acetate	9.779	86	2433	4.57	ug/L	#	81
34) ethyl tert-butyl ether	10.319	59	44903	4.01	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109991.D
Acq On : 19 May 2021 10:27 pm
Operator : EddieH
Sample : IC4892-4
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 21 16:35:44 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) ethyl acetate	10.566	70	2484	3.92	ug/L	#	84
36) 2,2-dichloropropane	10.571	77	21499	4.15	ug/L		96
37) cis-1,2-dichloroethene	10.550	96	15360	4.12	ug/L		97
38) methyl acrylate	10.650	55	18580	4.29	ug/L		98
39) propionitrile	10.555	54	32236	40.54	ug/L		99
40) bromochloromethane	10.860	128	8076	4.10	ug/L		91
41) tetrahydrofuran	10.933	72	3189	4.26	ug/L		87
42) chloroform	10.922	85	18268	4.28	ug/L		91
43) t-butyl formate	11.001	59	12415	4.73	ug/L		93
45) methacrylonitrile	10.786	67	7508	3.86	ug/L		90
46) 1,1,1-trichloroethane	11.227	97	23241	4.05	ug/L		91
47) cyclohexane	11.342	84	19521	3.91	ug/L		93
48) 1,1-dichloropropene	11.415	75	18087	3.92	ug/L		94
50) carbon tetrachloride	11.452	117	20911	4.04	ug/L		87
51) tert amyl alcohol	11.494	55	6500	23.01	ug/L		88
54) n-butyl alcohol	12.081	56	40716	201.00	ug/L		97
55) 2,2,4-trimethylpentane	11.740	57	31769	4.15	ug/L		97
56) benzene	11.662	78	51284	4.07	ug/L		98
57) tert-amyl methyl ether	11.725	87	10759	4.02	ug/L		99
58) heptane	11.898	71	6700	3.94	ug/L		94
59) isopropyl acetate	11.594	87	3875	3.86	ug/L		94
60) 1,2-dichloroethane	11.630	62	21603	4.24	ug/L		99
61) trichloroethene	12.343	130	15101	3.83	ug/L		99
62) ethyl acrylate	12.343	55	24581	4.05	ug/L		93
63) 2-nitropropane	12.993	43	7384	4.36	ug/L		96
64) 2-chloroethyl vinyl ether	13.046	63	51344	19.96	ug/L		99
65) methyl methacrylate	12.584	100	5023	3.98	ug/L	#	84
66) 1,2-dichloropropane	12.569	63	13608	4.04	ug/L		96
67) dibromomethane	12.695	93	10428	4.14	ug/L		94
68) methylcyclohexane	12.595	83	19938	4.01	ug/L		100
69) bromodichloromethane	12.810	83	20682	4.16	ug/L		97
70) epichlorohydrin	13.130	57	12771	21.37	ug/L		99
71) cis-1,3-dichloropropene	13.250	75	22708	4.17	ug/L		98
72) 4-methyl-2-pentanone	13.339	58	32188	16.88	ug/L		94
73) 3-methyl-1-butanol	13.329	70	15383	82.79	ug/L		90
76) toluene	13.612	92	31143	4.05	ug/L		99
77) trans-1,3-dichloropropene	13.743	75	20737	4.00	ug/L		95
78) ethyl methacrylate	13.775	69	20694	3.92	ug/L		99
79) 1,1,2-trichloroethane	13.937	83	11257	4.07	ug/L		95
80) tetrachloroethene	14.152	164	11420	4.04	ug/L		96
81) 1,3-dichloropropane	14.110	76	20338	4.05	ug/L		98
82) 2-hexanone	14.115	58	33408	16.12	ug/L		94
83) butyl acetate	14.199	56	11658	4.01	ug/L		97
84) dibromochloromethane	14.341	129	16115	4.05	ug/L		98
85) 1,2-dibromoethane	14.493	107	17095	4.05	ug/L		97
86) n-butyl ether	14.886	57	49664	3.89	ug/L		91
87) chlorobenzene	14.928	112	33856	4.09	ug/L		90
88) 1,1,1,2-tetrachloroethane	14.975	131	13010	4.02	ug/L		95
89) ethylbenzene	14.996	91	55045	3.99	ug/L		99
90) m,p-xylene	15.091	106	41740	8.05	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109991.D
Acq On : 19 May 2021 10:27 pm
Operator : EddieH
Sample : IC4892-4
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 21 16:35:44 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

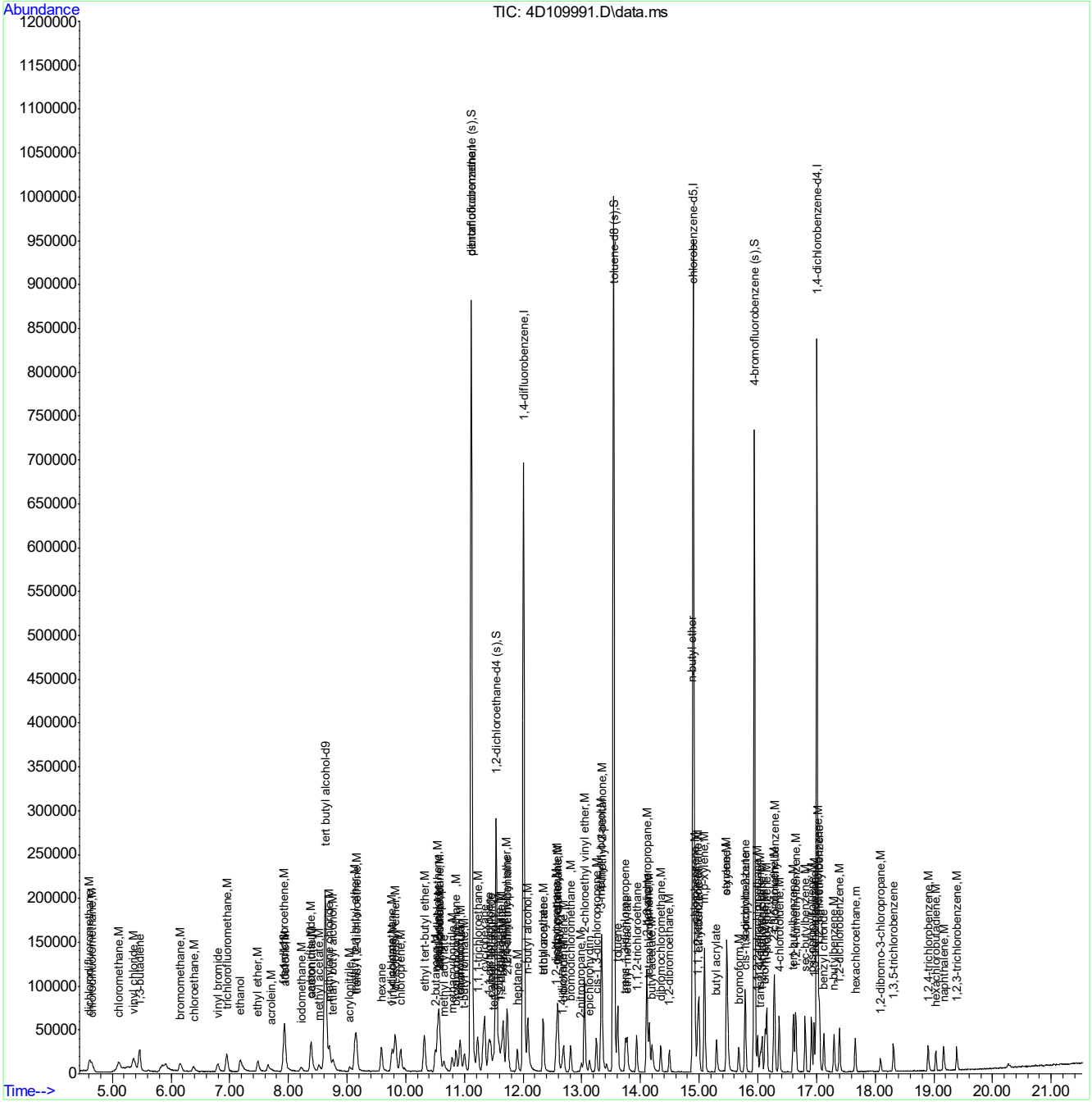
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) o-xylene	15.468	106	20695	4.09	ug/L	98
92) styrene	15.468	104	34548	3.92	ug/L	96
93) bromoform	15.678	173	12819	3.92	ug/L	99
94) butyl acrylate	15.295	55	29367	3.83	ug/L	99
95) isopropylbenzene	15.783	105	49372	3.99	ug/L	99
96) cis-1,4-dichloro-2-butene	15.793	88	6069	3.51	ug/L	97
99) bromobenzene	16.124	156	14023	4.08	ug/L	96
100) 1,1,2,2-tetrachloroethane	15.998	83	19474	4.49	ug/L	97
101) trans-1,4-dichloro-2-b...	16.040	53	4625	3.74	ug/L	89
102) 1,2,3-trichloropropane	16.071	110	5331	4.30	ug/L	97
103) n-propylbenzene	16.155	91	55772	4.18	ug/L	99
104) 2-chlorotoluene	16.276	126	12110	4.32	ug/L	100
105) 4-chlorotoluene	16.365	91	36836	4.26	ug/L	99
106) 1,3,5-trimethylbenzene	16.286	105	37848	4.17	ug/L	97
107) tert-butylbenzene	16.606	134	6537	3.89	ug/L	89
108) 1,2,4-trimethylbenzene	16.643	105	37790	4.05	ug/L	99
109) sec-butylbenzene	16.805	105	42417	4.00	ug/L	98
110) 1,3-dichlorobenzene	16.957	146	22562	4.03	ug/L	97
111) p-isopropyltoluene	16.915	119	34470	3.90	ug/L	99
112) 1,4-dichlorobenzene	17.031	146	23734	4.12	ug/L	99
113) 1,2,3-trimethylbenzene	17.046	105	37735	4.05	ug/L	98
114) benzyl chloride	17.125	91	31792	3.96	ug/L	99
115) 1,2-dichlorobenzene	17.392	146	21464	4.02	ug/L	95
116) n-butylbenzene	17.298	92	14672	3.91	ug/L	97
117) 1,2-dibromo-3-chloropr...	18.095	157	4649	3.68	ug/L	96
118) 1,3,5-trichlorobenzene	18.310	180	11840	3.82	ug/L	99
120) 1,2,4-trichlorobenzene	18.908	180	9409	3.69	ug/L	95
121) hexachlorobutadiene	19.039	225	4790	3.72	ug/L	93
122) naphthalene	19.164	128	25498	3.67	ug/L	100
123) 1,2,3-trichlorobenzene	19.390	180	8552	3.76	ug/L	94
124) hexachloroethane	17.665	201	6816	3.81	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109991.D
Acq On : 19 May 2021 10:27 pm
Operator : EddieH
Sample : IC4892-4
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 21 16:35:44 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109992.D
Acq On : 19 May 2021 10:56 pm
Operator : EddieH
Sample : IC4892-8
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 21 08:39:52 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.626	65	326640	500.00	ug/L	0.00
5) pentafluorobenzene	11.116	168	450328	50.00	ug/L	0.00
52) 1,4-difluorobenzene	12.002	114	617093	50.00	ug/L	0.00
74) chlorobenzene-d5	14.902	117	493218	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.004	152	221155	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	11.116	113	213023	50.23	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.46%			
53) 1,2-dichloroethane-d4 (s)	11.541	65	230230	53.15	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 106.30%			
75) toluene-d8 (s)	13.539	98	674909	50.62	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.24%			
98) 4-bromofluorobenzene (s)	15.940	95	233473	49.77	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.54%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.762	59	33284	38.48	ug/L	98
3) ethanol	7.174	45	60257	753.19	ug/L	97
4) 1,4-dioxane	12.663	88	13743	183.53	ug/L	95
6) chlorodifluoromethane	4.652	51	33930	8.72	ug/L	98
7) dichlorodifluoromethane	4.599	85	49424	8.71	ug/L	97
8) chloromethane	5.097	50	38492	9.28	ug/L	99
9) vinyl chloride	5.354	62	38951	8.92	ug/L	100
10) 1,3-butadiene	5.464	54	31855	9.17	ug/L	98
11) bromomethane	6.146	94	20623	7.57	ug/L	94
12) chloroethane	6.382	64	19822	8.50	ug/L	99
13) trichlorofluoromethane	6.943	101	52696	8.36	ug/L	98
14) vinyl bromide	6.796	106	23335	8.35	ug/L	95
15) ethyl ether	7.473	74	15193	7.94	ug/L	94
16) acrolein	7.698	56	5101	7.43	ug/L	82
17) freon 113	7.923	151	23989	8.27	ug/L	96
18) 1,1-dichloroethene	7.934	96	25006	8.40	ug/L	97
19) acetone	7.934	43	50790	30.06	ug/L	100
20) acetonitrile	8.374	41	53114	83.46	ug/L	97
21) iodomethane	8.212	142	23934	5.87	ug/L	95
22) carbon disulfide	8.380	76	78077	8.37	ug/L	99
23) methylene chloride	8.699	84	28670	8.39	ug/L	97
24) methyl acetate	8.505	43	30958	8.13	ug/L	99
25) methyl tert butyl ether	9.135	73	86381	8.31	ug/L	100
26) trans-1,2-dichloroethene	9.161	96	28392	8.63	ug/L	91
27) di-isopropyl ether	9.821	45	86829	8.44	ug/L	96
28) 2-butanone	10.498	72	20167	30.83	ug/L	93
29) 1,1-dichloroethane	9.758	63	48135	8.43	ug/L	99
30) chloroprene	9.911	53	39038	8.15	ug/L	98
31) acrylonitrile	9.035	53	10859	7.20	ug/L	93
32) hexane	9.580	56	17713	8.47	ug/L	96
33) vinyl acetate	9.774	86	4961	9.38	ug/L	95
34) ethyl tert-butyl ether	10.314	59	88742	7.98	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109992.D
Acq On : 19 May 2021 10:56 pm
Operator : EddieH
Sample : IC4892-8
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 21 08:39:52 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) ethyl acetate	10.561	70	4746	7.54	ug/L	#	83
36) 2,2-dichloropropane	10.576	77	43013	8.35	ug/L		97
37) cis-1,2-dichloroethene	10.545	96	30882	8.34	ug/L		99
38) methyl acrylate	10.645	55	36345	8.44	ug/L		98
39) propionitrile	10.550	54	62711	79.32	ug/L		98
40) bromochloromethane	10.854	128	16133	8.23	ug/L		100
41) tetrahydrofuran	10.933	72	6083	8.18	ug/L		92
42) chloroform	10.922	85	35307	8.31	ug/L		92
43) t-butyl formate	10.996	59	24484	9.38	ug/L		99
45) methacrylonitrile	10.786	67	15500	8.02	ug/L		95
46) 1,1,1-trichloroethane	11.227	97	46484	8.15	ug/L		98
47) cyclohexane	11.342	84	41500	8.35	ug/L		96
48) 1,1-dichloropropene	11.415	75	37666	8.22	ug/L		96
50) carbon tetrachloride	11.447	117	41533	8.06	ug/L		100
51) tert amyl alcohol	11.494	55	11962	42.59	ug/L		98
54) n-butyl alcohol	12.076	56	76631	379.06	ug/L		97
55) 2,2,4-trimethylpentane	11.740	57	64098	8.40	ug/L		99
56) benzene	11.662	78	103099	8.19	ug/L		99
57) tert-amyl methyl ether	11.725	87	21498	8.06	ug/L		98
58) heptane	11.903	71	13829	8.16	ug/L		93
59) isopropyl acetate	11.588	87	7757	7.74	ug/L	#	92
60) 1,2-dichloroethane	11.630	62	42401	8.33	ug/L		99
61) trichloroethene	12.338	130	30353	7.72	ug/L		96
62) ethyl acrylate	12.333	55	48533	8.01	ug/L		99
63) 2-nitropropane	12.988	43	13672	8.08	ug/L		97
64) 2-chloroethyl vinyl ether	13.041	63	101888	39.69	ug/L		98
65) methyl methacrylate	12.584	100	9607	7.63	ug/L	#	84
66) 1,2-dichloropropane	12.563	63	26752	7.97	ug/L		93
67) dibromomethane	12.689	93	20329	8.08	ug/L		94
68) methylcyclohexane	12.595	83	40246	8.11	ug/L		100
69) bromodichloromethane	12.810	83	40035	8.07	ug/L		98
70) epichlorohydrin	13.130	57	23928	40.11	ug/L		98
71) cis-1,3-dichloropropene	13.245	75	45332	8.34	ug/L		96
72) 4-methyl-2-pentanone	13.339	58	63780	33.52	ug/L		97
73) 3-methyl-1-butanol	13.324	70	29751	160.44	ug/L		99
76) toluene	13.607	92	62752	8.02	ug/L		98
77) trans-1,3-dichloropropene	13.743	75	41098	7.79	ug/L		99
78) ethyl methacrylate	13.769	69	41679	7.76	ug/L		99
79) 1,1,2-trichloroethane	13.932	83	22786	8.09	ug/L		96
80) tetrachloroethene	14.152	164	23347	8.11	ug/L		95
81) 1,3-dichloropropane	14.105	76	40759	7.98	ug/L		97
82) 2-hexanone	14.110	58	66500	31.54	ug/L		99
83) butyl acetate	14.194	56	23042	7.79	ug/L		100
84) dibromochloromethane	14.341	129	32074	7.93	ug/L		99
85) 1,2-dibromoethane	14.488	107	34148	7.96	ug/L		99
86) n-butyl ether	14.886	57	101030	7.78	ug/L		95
87) chlorobenzene	14.928	112	67992	8.08	ug/L		96
88) 1,1,1,2-tetrachloroethane	14.975	131	26359	8.01	ug/L		96
89) ethylbenzene	14.996	91	111548	7.95	ug/L		100
90) m,p-xylene	15.091	106	83193	15.76	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109992.D
Acq On : 19 May 2021 10:56 pm
Operator : EddieH
Sample : IC4892-8
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 21 08:39:52 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

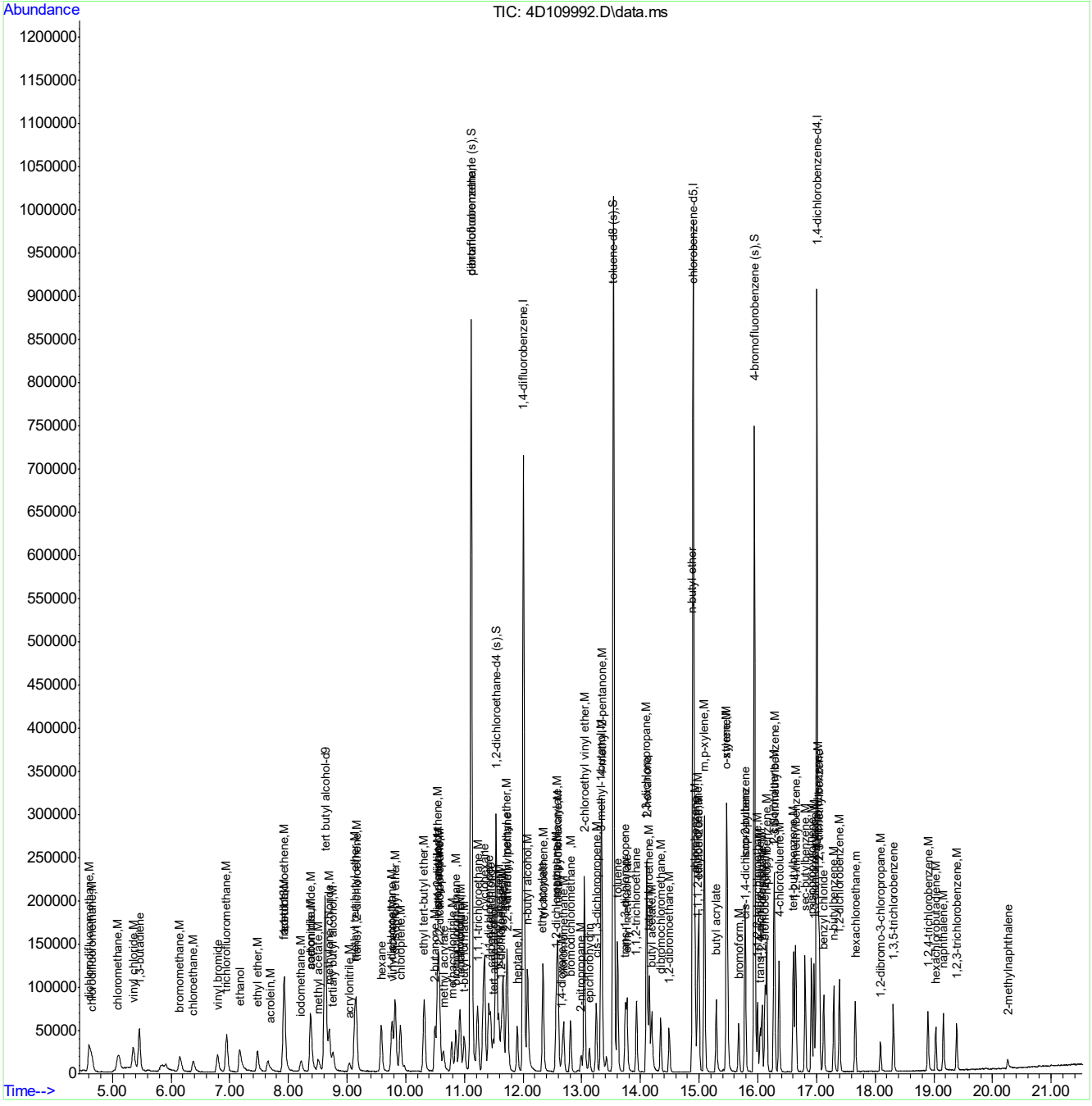
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) o-xylene	15.463	106	40855	7.94	ug/L	99
92) styrene	15.468	104	70251	7.83	ug/L	98
93) bromoform	15.673	173	25920	7.79	ug/L	97
94) butyl acrylate	15.295	55	59813	7.67	ug/L	98
95) isopropylbenzene	15.783	105	100344	7.97	ug/L	99
96) cis-1,4-dichloro-2-butene	15.793	88	12541	7.14	ug/L	98
99) bromobenzene	16.124	156	28446	7.56	ug/L	98
100) 1,1,2,2-tetrachloroethane	15.992	83	37708	7.94	ug/L	98
101) trans-1,4-dichloro-2-b...	16.040	53	9560	7.05	ug/L	90
102) 1,2,3-trichloropropane	16.071	110	10367	7.64	ug/L	90
103) n-propylbenzene	16.150	91	113154	7.75	ug/L	97
104) 2-chlorotoluene	16.276	126	23693	7.72	ug/L	98
105) 4-chlorotoluene	16.365	91	74002	7.82	ug/L	98
106) 1,3,5-trimethylbenzene	16.286	105	76739	7.72	ug/L	99
107) tert-butylbenzene	16.611	134	14146	7.69	ug/L	94
108) 1,2,4-trimethylbenzene	16.643	105	78880	7.72	ug/L	99
109) sec-butylbenzene	16.805	105	88676	7.63	ug/L	99
110) 1,3-dichlorobenzene	16.957	146	47751	7.79	ug/L	99
111) p-isopropyltoluene	16.915	119	74237	7.68	ug/L	98
112) 1,4-dichlorobenzene	17.031	146	49182	7.80	ug/L	99
113) 1,2,3-trimethylbenzene	17.046	105	79873	7.82	ug/L	100
114) benzyl chloride	17.125	91	65311	7.43	ug/L	100
115) 1,2-dichlorobenzene	17.392	146	45105	7.71	ug/L	99
116) n-butylbenzene	17.298	92	31129	7.59	ug/L	98
117) 1,2-dibromo-3-chloropr...	18.090	157	9944	7.18	ug/L	96
118) 1,3,5-trichlorobenzene	18.310	180	25680	7.57	ug/L	98
120) 1,2,4-trichlorobenzene	18.902	180	20991	7.52	ug/L	99
121) hexachlorobutadiene	19.039	225	10927	7.74	ug/L	97
122) naphthalene	19.159	128	53644	7.05	ug/L	98
123) 1,2,3-trichlorobenzene	19.390	180	18141	7.28	ug/L	95
124) hexachloroethane	17.665	201	14620	7.47	ug/L	97
125) 2-methylnaphthalene	20.266	142	7940	4.44	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109992.D
Acq On : 19 May 2021 10:56 pm
Operator : EddieH
Sample : IC4892-8
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 21 08:39:52 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109993.D
Acq On : 19 May 2021 11:24 pm
Operator : EddieH
Sample : IC4892-20
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 21 08:40:07 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.631	65	319634	500.00	ug/L	0.00
5) pentafluorobenzene	11.117	168	459692	50.00	ug/L	0.00
52) 1,4-difluorobenzene	12.008	114	606851	50.00	ug/L	0.00
74) chlorobenzene-d5	14.902	117	485933	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.004	152	210529	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	11.117	113	214705	49.59	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.18%			
53) 1,2-dichloroethane-d4 (s)	11.541	65	231699	54.39	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 108.78%			
75) toluene-d8 (s)	13.539	98	690223	52.55	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 105.10%			
98) 4-bromofluorobenzene (s)	15.940	95	224920	50.37	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.74%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.762	59	79720	94.18	ug/L	98
3) ethanol	7.163	45	149826	1913.81	ug/L	95
4) 1,4-dioxane	12.663	88	34673	473.18	ug/L	99
6) chlorodifluoromethane	4.647	51	73936	18.61	ug/L	97
7) dichlorodifluoromethane	4.605	85	112731	19.46	ug/L	99
8) chloromethane	5.103	50	84979	20.07	ug/L	96
9) vinyl chloride	5.360	62	87104	19.54	ug/L	96
10) 1,3-butadiene	5.465	54	68351	19.28	ug/L	98
11) bromomethane	6.157	94	49978	17.98	ug/L	99
12) chloroethane	6.382	64	46681	19.61	ug/L	99
13) trichlorofluoromethane	6.948	101	125404	19.49	ug/L	98
14) vinyl bromide	6.796	106	55120	19.32	ug/L	99
15) ethyl ether	7.473	74	35970	18.40	ug/L	92
16) acrolein	7.688	56	13808	19.69	ug/L	99
17) freon 113	7.929	151	55338	18.69	ug/L	96
18) 1,1-dichloroethene	7.934	96	57578	18.94	ug/L	98
19) acetone	7.929	43	128587	74.55	ug/L	97
20) acetonitrile	8.369	41	125030	192.46	ug/L	99
21) iodomethane	8.217	142	70205	16.87	ug/L	99
22) carbon disulfide	8.385	76	179874	18.88	ug/L	99
23) methylene chloride	8.699	84	65411	18.76	ug/L	94
24) methyl acetate	8.505	43	75458	19.41	ug/L	99
25) methyl tert butyl ether	9.135	73	201072	18.94	ug/L	98
26) trans-1,2-dichloroethene	9.161	96	64136	19.09	ug/L	99
27) di-isopropyl ether	9.821	45	200787	19.12	ug/L	96
28) 2-butanone	10.498	72	48948	73.31	ug/L	95
29) 1,1-dichloroethane	9.759	63	111734	19.16	ug/L	99
30) chloroprene	9.911	53	92654	18.95	ug/L	98
31) acrylonitrile	9.030	53	29838	19.38	ug/L	95
32) hexane	9.580	56	40024	18.74	ug/L	98
33) vinyl acetate	9.769	86	12390	22.94	ug/L #	93
34) ethyl tert-butyl ether	10.314	59	210951	18.58	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109993.D
Acq On : 19 May 2021 11:24 pm
Operator : EddieH
Sample : IC4892-20
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 21 08:40:07 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) ethyl acetate	10.561	70	11956	18.61	ug/L #	87
36) 2,2-dichloropropane	10.571	77	97816	18.60	ug/L	96
37) cis-1,2-dichloroethene	10.545	96	70921	18.76	ug/L	97
38) methyl acrylate	10.634	55	83444	18.99	ug/L	98
39) propionitrile	10.545	54	152394	188.82	ug/L	99
40) bromochloromethane	10.854	128	38040	19.02	ug/L	99
41) tetrahydrofuran	10.928	72	14482	19.07	ug/L	88
42) chloroform	10.922	85	81852	18.88	ug/L	94
43) t-butyl formate	10.996	59	58473	21.94	ug/L	98
45) methacrylonitrile	10.781	67	35548	18.03	ug/L	98
46) 1,1,1-trichloroethane	11.227	97	108305	18.61	ug/L	97
47) cyclohexane	11.342	84	97507	19.23	ug/L	99
48) 1,1-dichloropropene	11.415	75	86909	18.58	ug/L	99
50) carbon tetrachloride	11.447	117	99943	19.00	ug/L	98
51) tert amyl alcohol	11.494	55	27733	96.73	ug/L	98
54) n-butyl alcohol	12.071	56	191487	963.19	ug/L	99
55) 2,2,4-trimethylpentane	11.740	57	150608	20.06	ug/L	100
56) benzene	11.662	78	245280	19.81	ug/L	99
57) tert-amyl methyl ether	11.725	87	51939	19.79	ug/L	98
58) heptane	11.903	71	33273	19.96	ug/L	96
59) isopropyl acetate	11.588	87	19153	19.43	ug/L	97
60) 1,2-dichloroethane	11.630	62	99214	19.83	ug/L	99
61) trichloroethene	12.343	130	69765	18.04	ug/L	99
62) ethyl acrylate	12.333	55	115873	19.44	ug/L	98
63) 2-nitropropane	12.988	43	32782	19.70	ug/L	99
64) 2-chloroethyl vinyl ether	13.041	63	241575	95.69	ug/L	99
65) methyl methacrylate	12.579	100	24075	19.45	ug/L	94
66) 1,2-dichloropropane	12.564	63	64439	19.51	ug/L	98
67) dibromomethane	12.689	93	48101	19.45	ug/L	99
68) methylcyclohexane	12.595	83	96094	19.70	ug/L	98
69) bromodichloromethane	12.810	83	96538	19.79	ug/L	99
70) epichlorohydrin	13.125	57	58284	99.36	ug/L	95
71) cis-1,3-dichloropropene	13.245	75	107798	20.17	ug/L	97
72) 4-methyl-2-pentanone	13.334	58	152294	81.39	ug/L	96
73) 3-methyl-1-butanol	13.324	70	76144	417.56	ug/L	95
76) toluene	13.607	92	150250	19.49	ug/L	99
77) trans-1,3-dichloropropene	13.743	75	100436	19.32	ug/L	99
78) ethyl methacrylate	13.769	69	101358	19.15	ug/L	99
79) 1,1,2-trichloroethane	13.932	83	53184	19.16	ug/L	98
80) tetrachloroethene	14.152	164	56585	19.96	ug/L	98
81) 1,3-dichloropropane	14.105	76	98413	19.57	ug/L	98
82) 2-hexanone	14.105	58	160100	77.06	ug/L	100
83) butyl acetate	14.189	56	56047	19.23	ug/L	100
84) dibromochloromethane	14.341	129	78341	19.66	ug/L	99
85) 1,2-dibromoethane	14.488	107	82074	19.41	ug/L	98
86) n-butyl ether	14.886	57	236347	18.48	ug/L	98
87) chlorobenzene	14.928	112	156450	18.88	ug/L	99
88) 1,1,1,2-tetrachloroethane	14.975	131	61624	19.00	ug/L	99
89) ethylbenzene	14.991	91	261420	18.90	ug/L	99
90) m,p-xylene	15.091	106	196086	37.71	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109993.D
Acq On : 19 May 2021 11:24 pm
Operator : EddieH
Sample : IC4892-20
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 21 08:40:07 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

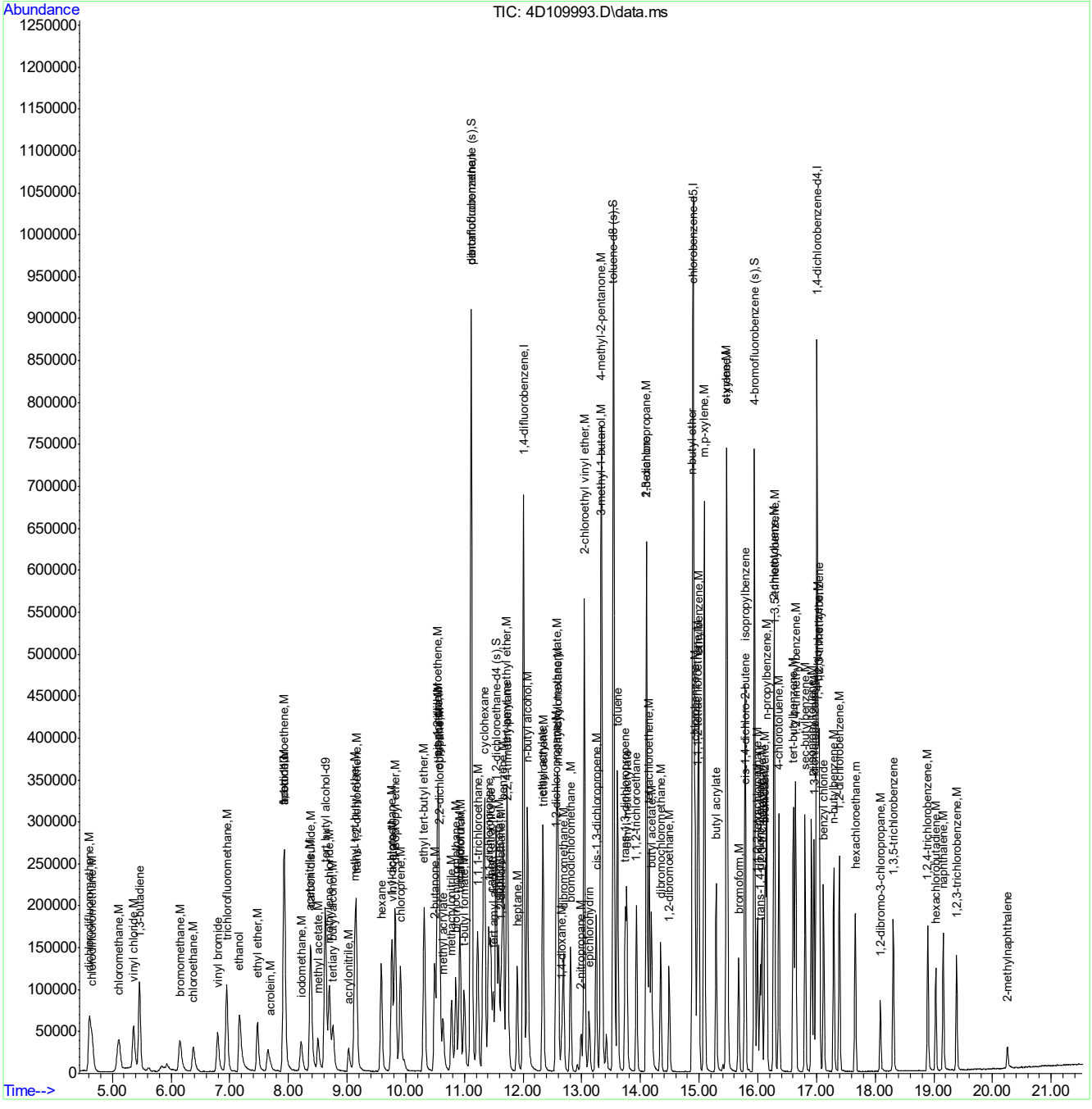
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	o-xylene	15.463	106	96502	19.04	ug/L	97
92)	styrene	15.463	104	166705	18.86	ug/L	99
93)	bromoform	15.673	173	60521	18.46	ug/L	97
94)	butyl acrylate	15.290	55	143475	18.68	ug/L	100
95)	isopropylbenzene	15.783	105	233179	18.80	ug/L	99
96)	cis-1,4-dichloro-2-butene	15.793	88	31443	18.17	ug/L	94
99)	bromobenzene	16.124	156	67480	18.83	ug/L	98
100)	1,1,2,2-tetrachloroethane	15.993	83	89101	19.71	ug/L	98
101)	trans-1,4-dichloro-2-b...	16.040	53	23399	18.13	ug/L	98
102)	1,2,3-trichloropropane	16.071	110	24498	18.97	ug/L	98
103)	n-propylbenzene	16.150	91	263322	18.95	ug/L	100
104)	2-chlorotoluene	16.276	126	55127	18.87	ug/L	99
105)	4-chlorotoluene	16.360	91	171627	19.06	ug/L	100
106)	1,3,5-trimethylbenzene	16.286	105	179403	18.95	ug/L	99
107)	tert-butylbenzene	16.606	134	30987	17.69	ug/L	95
108)	1,2,4-trimethylbenzene	16.643	105	178556	18.36	ug/L	98
109)	sec-butylbenzene	16.805	105	199464	18.04	ug/L	98
110)	1,3-dichlorobenzene	16.957	146	106690	18.29	ug/L	99
111)	p-isopropyltoluene	16.915	119	163853	17.80	ug/L	99
112)	1,4-dichlorobenzene	17.031	146	113120	18.84	ug/L	99
113)	1,2,3-trimethylbenzene	17.046	105	179640	18.48	ug/L	99
114)	benzyl chloride	17.120	91	155893	18.63	ug/L	99
115)	1,2-dichlorobenzene	17.392	146	103705	18.62	ug/L	97
116)	n-butylbenzene	17.293	92	72588	18.58	ug/L	98
117)	1,2-dibromo-3-chloropr...	18.090	157	23987	18.20	ug/L	98
118)	1,3,5-trichlorobenzene	18.310	180	59858	18.53	ug/L	99
120)	1,2,4-trichlorobenzene	18.897	180	49984	18.82	ug/L	99
121)	hexachlorobutadiene	19.033	225	25592	19.05	ug/L	98
122)	naphthalene	19.159	128	130226	17.99	ug/L	100
123)	1,2,3-trichlorobenzene	19.390	180	43937	18.53	ug/L	94
124)	hexachloroethane	17.665	201	34446	18.49	ug/L	99
125)	2-methylnaphthalene	20.255	142	16658	9.79	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109993.D
Acq On : 19 May 2021 11:24 pm
Operator : EddieH
Sample : IC4892-20
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 21 08:40:07 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109994.D
Acq On : 19 May 2021 11:52 pm
Operator : EddieH
Sample : ICC4892-50
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 21 08:40:18 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.631	65	321147	500.00	ug/L	0.00
5) pentafluorobenzene	11.117	168	462738	50.00	ug/L	0.00
52) 1,4-difluorobenzene	12.008	114	634483	50.00	ug/L	0.00
74) chlorobenzene-d5	14.902	117	487699	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.004	152	212791	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	11.117	113	217900	50.00	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.00%			
53) 1,2-dichloroethane-d4 (s)	11.541	65	222696	50.00	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.00%			
75) toluene-d8 (s)	13.544	98	659173	50.00	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.00%			
98) 4-bromofluorobenzene (s)	15.940	95	225676	50.00	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.00%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.762	59	212626	250.00	ug/L	100
3) ethanol	7.169	45	393286	5000.00	ug/L	100
4) 1,4-dioxane	12.663	88	92029	1250.00	ug/L	100
6) chlorodifluoromethane	4.652	51	199972	50.00	ug/L	100
7) dichlorodifluoromethane	4.605	85	291632	50.00	ug/L	100
8) chloromethane	5.108	50	213084	50.00	ug/L	100
9) vinyl chloride	5.360	62	224373	50.00	ug/L	100
10) 1,3-butadiene	5.465	54	178468	50.00	ug/L	100
11) bromomethane	6.141	94	139906	50.00	ug/L	100
12) chloroethane	6.377	64	119799	50.00	ug/L	100
13) trichlorofluoromethane	6.943	101	323845	50.00	ug/L	100
14) vinyl bromide	6.791	106	143600	50.00	ug/L	100
15) ethyl ether	7.473	74	98366	50.00	ug/L	100
16) acrolein	7.677	56	35295	50.00	ug/L	100
17) freon 113	7.929	151	149049	50.00	ug/L	100
18) 1,1-dichloroethene	7.929	96	152988	50.00	ug/L	100
19) acetone	7.924	43	347254	200.00	ug/L	100
20) acetonitrile	8.364	41	326623	499.47	ug/L	100
21) iodomethane	8.212	142	209501	50.00	ug/L	100
22) carbon disulfide	8.380	76	479392	50.00	ug/L	100
23) methylene chloride	8.700	84	175485	50.00	ug/L	100
24) methyl acetate	8.495	43	195706	50.00	ug/L	100
25) methyl tert butyl ether	9.135	73	534190	50.00	ug/L	100
26) trans-1,2-dichloroethene	9.156	96	169064	50.00	ug/L	100
27) di-isopropyl ether	9.822	45	528448	50.00	ug/L	100
28) 2-butanone	10.493	72	134420	200.00	ug/L	100
29) 1,1-dichloroethane	9.759	63	293439	50.00	ug/L	100
30) chloroprene	9.905	53	246072	50.00	ug/L	100
31) acrylonitrile	9.019	53	77486	50.00	ug/L	100
32) hexane	9.580	56	107477	50.00	ug/L	100
33) vinyl acetate	9.764	86	27180	50.00	ug/L	100
34) ethyl tert-butyl ether	10.314	59	571399	50.00	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109994.D
Acq On : 19 May 2021 11:52 pm
Operator : EddieH
Sample : ICC4892-50
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 21 08:40:18 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) ethyl acetate	10.556	70	32344	50.00	ug/L	100
36) 2,2-dichloropropane	10.571	77	264661	50.00	ug/L	100
37) cis-1,2-dichloroethene	10.540	96	190312	50.00	ug/L	100
38) methyl acrylate	10.629	55	221172	50.00	ug/L	100
39) propionitrile	10.545	54	406209	500.00	ug/L	100
40) bromochloromethane	10.854	128	100662	50.00	ug/L	100
41) tetrahydrofuran	10.928	72	38215	50.00	ug/L	100
42) chloroform	10.917	85	218183	50.00	ug/L	100
43) t-butyl formate	10.996	59	134119	50.00	ug/L	100
45) methacrylonitrile	10.776	67	99242	50.00	ug/L	100
46) 1,1,1-trichloroethane	11.227	97	292868	50.00	ug/L	100
47) cyclohexane	11.342	84	255202	50.00	ug/L	100
48) 1,1-dichloropropene	11.410	75	235459	50.00	ug/L	100
50) carbon tetrachloride	11.447	117	264711	50.00	ug/L	100
51) tert amyl alcohol	11.494	55	72151	250.00	ug/L	100
54) n-butyl alcohol	12.071	56	519641	2500.00	ug/L	100
55) 2,2,4-trimethylpentane	11.740	57	392464	50.00	ug/L	100
56) benzene	11.662	78	647184	50.00	ug/L	100
57) tert-amyl methyl ether	11.725	87	137170	50.00	ug/L	100
58) heptane	11.898	71	87154	50.00	ug/L	100
59) isopropyl acetate	11.583	87	51533	50.00	ug/L	100
60) 1,2-dichloroethane	11.630	62	261542	50.00	ug/L	100
61) trichloroethene	12.338	130	202144	50.00	ug/L	100
62) ethyl acrylate	12.328	55	311622	50.00	ug/L	100
63) 2-nitropropane	12.988	43	86986	50.00	ug/L	100
64) 2-chloroethyl vinyl ether	13.041	63	659889	250.00	ug/L	100
65) methyl methacrylate	12.579	100	64699	50.00	ug/L	100
66) 1,2-dichloropropane	12.564	63	172665	50.00	ug/L	100
67) dibromomethane	12.689	93	129270	50.00	ug/L	100
68) methylcyclohexane	12.595	83	254979	50.00	ug/L	100
69) bromodichloromethane	12.810	83	254953	50.00	ug/L	100
70) epichlorohydrin	13.125	57	153324	250.00	ug/L	100
71) cis-1,3-dichloropropene	13.245	75	279381	50.00	ug/L	100
72) 4-methyl-2-pentanone	13.334	58	391295	200.00	ug/L	100
73) 3-methyl-1-butanol	13.324	70	190660	1000.00	ug/L	100
76) toluene	13.607	92	386866	50.00	ug/L	100
77) trans-1,3-dichloropropene	13.738	75	260920	50.00	ug/L	100
78) ethyl methacrylate	13.764	69	265621	50.00	ug/L	100
79) 1,1,2-trichloroethane	13.932	83	139269	50.00	ug/L	100
80) tetrachloroethene	14.152	164	142286	50.00	ug/L	100
81) 1,3-dichloropropane	14.105	76	252385	50.00	ug/L	100
82) 2-hexanone	14.105	58	417026	200.00	ug/L	100
83) butyl acetate	14.189	56	146277	50.00	ug/L	100
84) dibromochloromethane	14.341	129	199960	50.00	ug/L	100
85) 1,2-dibromoethane	14.488	107	212214	50.00	ug/L	100
86) n-butyl ether	14.881	57	641676	50.00	ug/L	100
87) chlorobenzene	14.928	112	415921	50.00	ug/L	100
88) 1,1,1,2-tetrachloroethane	14.975	131	162730	50.00	ug/L	100
89) ethylbenzene	14.991	91	694069	50.00	ug/L	100
90) m,p-xylene	15.091	106	521809	100.00	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109994.D
Acq On : 19 May 2021 11:52 pm
Operator : EddieH
Sample : ICC4892-50
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 21 08:40:18 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

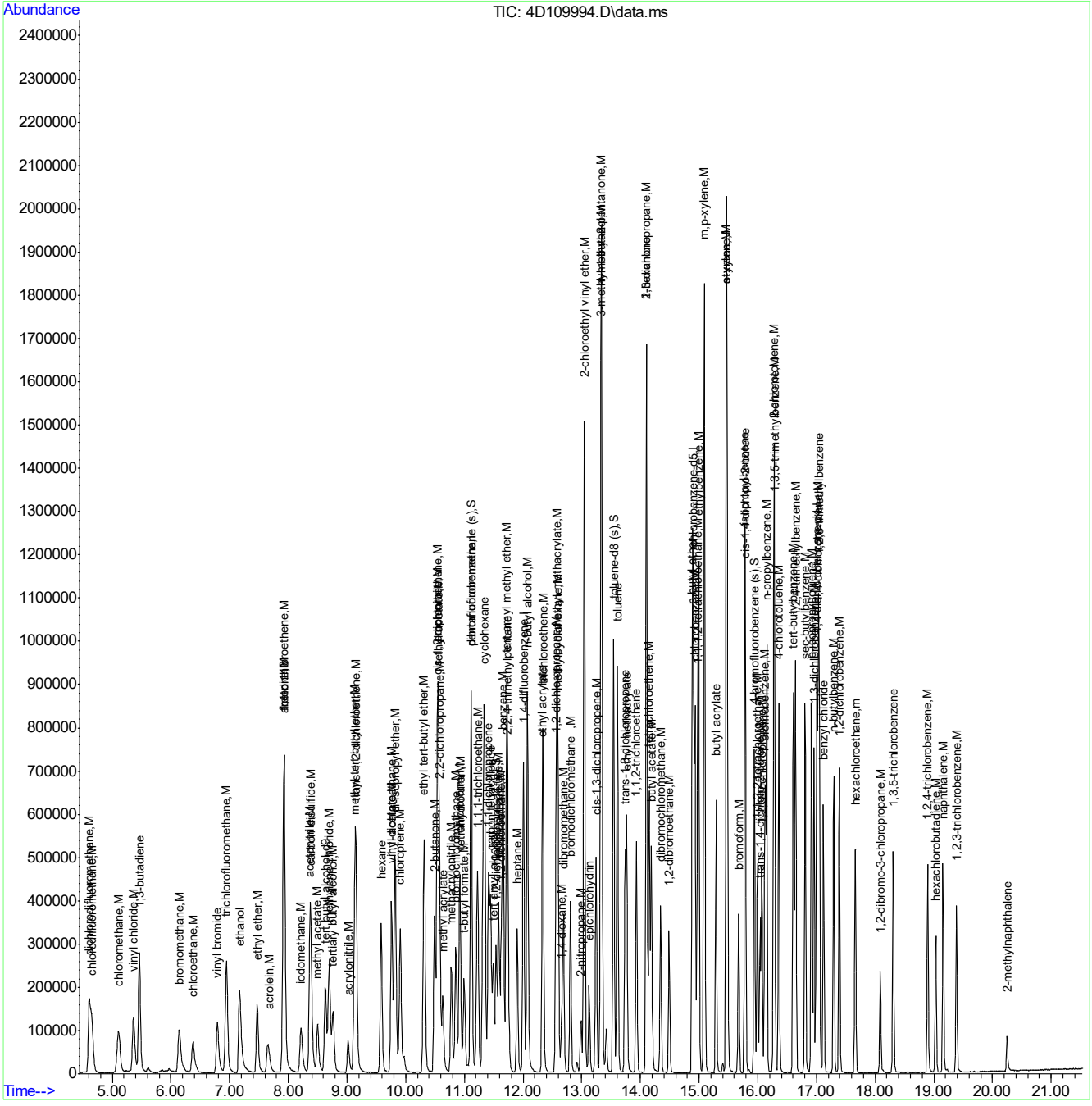
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	o-xylene	15.463	106	254380	50.00	ug/L	100
92)	styrene	15.463	104	443546	50.00	ug/L	100
93)	bromoform	15.673	173	164478	50.00	ug/L	100
94)	butyl acrylate	15.290	55	385461	50.00	ug/L	100
95)	isopropylbenzene	15.778	105	622493	50.00	ug/L	100
96)	cis-1,4-dichloro-2-butene	15.788	88	86857	50.00	ug/L	100
99)	bromobenzene	16.124	156	181083	50.00	ug/L	100
100)	1,1,2,2-tetrachloroethane	15.993	83	228403	50.00	ug/L	100
101)	trans-1,4-dichloro-2-b...	16.035	53	65211	50.00	ug/L	100
102)	1,2,3-trichloropropane	16.071	110	65262	50.00	ug/L	100
103)	n-propylbenzene	16.150	91	702407	50.00	ug/L	100
104)	2-chlorotoluene	16.276	126	147635	50.00	ug/L	100
105)	4-chlorotoluene	16.360	91	455128	50.00	ug/L	100
106)	1,3,5-trimethylbenzene	16.286	105	478339	50.00	ug/L	100
107)	tert-butylbenzene	16.606	134	88500	50.00	ug/L	100
108)	1,2,4-trimethylbenzene	16.643	105	491443	50.00	ug/L	100
109)	sec-butylbenzene	16.805	105	558764	50.00	ug/L	100
110)	1,3-dichlorobenzene	16.957	146	294820	50.00	ug/L	100
111)	p-isopropyltoluene	16.910	119	465205	50.00	ug/L	100
112)	1,4-dichlorobenzene	17.031	146	303396	50.00	ug/L	100
113)	1,2,3-trimethylbenzene	17.046	105	491301	50.00	ug/L	100
114)	benzyl chloride	17.120	91	422815	50.00	ug/L	100
115)	1,2-dichlorobenzene	17.392	146	281444	50.00	ug/L	100
116)	n-butylbenzene	17.293	92	197427	50.00	ug/L	100
117)	1,2-dibromo-3-chloropr...	18.090	157	66596	50.00	ug/L	100
118)	1,3,5-trichlorobenzene	18.305	180	163244	50.00	ug/L	100
120)	1,2,4-trichlorobenzene	18.897	180	134245	50.00	ug/L	100
121)	hexachlorobutadiene	19.039	225	67878	50.00	ug/L	100
122)	naphthalene	19.154	128	365873	50.00	ug/L	100
123)	1,2,3-trichlorobenzene	19.385	180	119856	50.00	ug/L	100
124)	hexachloroethane	17.665	201	94141	50.00	ug/L	100
125)	2-methylnaphthalene	20.250	142	42999	25.00	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109994.D
Acq On : 19 May 2021 11:52 pm
Operator : EddieH
Sample : ICC4892-50
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 21 08:40:18 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109995.D
Acq On : 20 May 2021 12:21 am
Operator : EddieH
Sample : IC4892-100
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 21 08:40:41 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.642	65	309594	500.00	ug/L	0.01
5) pentafluorobenzene	11.116	168	433891	50.00	ug/L	0.00
52) 1,4-difluorobenzene	12.003	114	595670	50.00	ug/L	0.00
74) chlorobenzene-d5	14.902	117	485860	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.004	152	208322	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	11.116	113	203626	49.83	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.66%			
53) 1,2-dichloroethane-d4 (s)	11.541	65	215289	51.49	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 102.98%			
75) toluene-d8 (s)	13.539	98	652744	49.70	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.40%			
98) 4-bromofluorobenzene (s)	15.940	95	230243	52.11	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 104.22%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.773	59	410869	501.12	ug/L	99
3) ethanol	7.179	45	779594	10281.14	ug/L	99
4) 1,4-dioxane	12.663	88	176684	2489.40	ug/L	98
6) chlorodifluoromethane	4.647	51	424407	113.17	ug/L	97
7) dichlorodifluoromethane	4.605	85	617343	112.88	ug/L	99
8) chloromethane	5.108	50	441375	110.45	ug/L	98
9) vinyl chloride	5.360	62	460923	109.54	ug/L	99
10) 1,3-butadiene	5.464	54	359875	107.53	ug/L	100
11) bromomethane	6.125	94	316891	120.78	ug/L	100
12) chloroethane	6.361	64	248938	110.81	ug/L	99
13) trichlorofluoromethane	6.938	101	670892	110.47	ug/L	100
14) vinyl bromide	6.786	106	303102	112.55	ug/L	97
15) ethyl ether	7.473	74	201090	109.01	ug/L	98
16) acrolein	7.677	56	71569	108.13	ug/L	97
17) freon 113	7.918	151	310857	111.21	ug/L	99
18) 1,1-dichloroethene	7.923	96	311989	108.74	ug/L	97
19) acetone	7.923	43	688224	422.73	ug/L	98
20) acetonitrile	8.364	41	643144	1048.88	ug/L	99
21) iodomethane	8.212	142	441764	112.44	ug/L	100
22) carbon disulfide	8.374	76	984981	109.56	ug/L	100
23) methylene chloride	8.694	84	358815	109.03	ug/L	97
24) methyl acetate	8.495	43	389124	106.03	ug/L	97
25) methyl tert butyl ether	9.135	73	1085851	108.39	ug/L	99
26) trans-1,2-dichloroethene	9.156	96	345522	108.98	ug/L	97
27) di-isopropyl ether	9.816	45	1073403	108.31	ug/L	100
28) 2-butanone	10.493	72	262306	416.23	ug/L	93
29) 1,1-dichloroethane	9.753	63	613632	111.51	ug/L	99
30) chloroprene	9.905	53	500252	108.41	ug/L	99
31) acrylonitrile	9.014	53	160593	110.52	ug/L	99
32) hexane	9.575	56	226779	112.52	ug/L	98
33) vinyl acetate	9.758	86	71335	139.95	ug/L	99
34) ethyl tert-butyl ether	10.314	59	1154705	107.76	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109995.D
Acq On : 20 May 2021 12:21 am
Operator : EddieH
Sample : IC4892-100
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 21 08:40:41 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) ethyl acetate	10.550	70	64860	106.93	ug/L #	72
36) 2,2-dichloropropane	10.571	77	530480	106.88	ug/L	97
37) cis-1,2-dichloroethene	10.540	96	382314	107.12	ug/L	99
38) methyl acrylate	10.629	55	438871	105.81	ug/L	99
39) propionitrile	10.545	54	798289	1047.94	ug/L	99
40) bromochloromethane	10.854	128	203190	107.64	ug/L	98
41) tetrahydrofuran	10.928	72	75928	105.95	ug/L	90
42) chloroform	10.917	85	440367	107.63	ug/L	97
43) t-butyl formate	10.996	59	305419	121.43	ug/L	99
45) methacrylonitrile	10.776	67	197304	106.01	ug/L	98
46) 1,1,1-trichloroethane	11.227	97	578842	105.39	ug/L	100
47) cyclohexane	11.342	84	503363	105.18	ug/L	97
48) 1,1-dichloropropene	11.410	75	456344	103.35	ug/L	100
50) carbon tetrachloride	11.447	117	507637	102.26	ug/L	99
51) tert amyl alcohol	11.494	55	134383	496.59	ug/L	98
54) n-butyl alcohol	12.081	56	995136	5099.57	ug/L	99
55) 2,2,4-trimethylpentane	11.740	57	783547	106.33	ug/L	98
56) benzene	11.662	78	1258602	103.57	ug/L	100
57) tert-amyl methyl ether	11.725	87	262906	102.08	ug/L	99
58) heptane	11.898	71	178239	108.92	ug/L	98
59) isopropyl acetate	11.583	87	102368	105.79	ug/L	100
60) 1,2-dichloroethane	11.625	62	503834	102.60	ug/L	99
61) trichloroethene	12.338	130	375743	99.00	ug/L	98
62) ethyl acrylate	12.328	55	616319	105.33	ug/L	98
63) 2-nitropropane	12.988	43	171727	105.14	ug/L	97
64) 2-chloroethyl vinyl ether	13.041	63	1260871	508.81	ug/L	99
65) methyl methacrylate	12.579	100	126076	103.78	ug/L	98
66) 1,2-dichloropropane	12.563	63	334504	103.18	ug/L	98
67) dibromomethane	12.684	93	246956	101.74	ug/L	98
68) methylcyclohexane	12.595	83	506305	105.75	ug/L	99
69) bromodichloromethane	12.810	83	499537	104.35	ug/L	99
70) epichlorohydrin	13.124	57	293669	510.04	ug/L	98
71) cis-1,3-dichloropropene	13.245	75	565298	107.76	ug/L	99
72) 4-methyl-2-pentanone	13.334	58	757974	412.66	ug/L	97
73) 3-methyl-1-butanol	13.324	70	374111	2090.04	ug/L	98
76) toluene	13.607	92	780968	101.32	ug/L	100
77) trans-1,3-dichloropropene	13.738	75	528230	101.61	ug/L	99
78) ethyl methacrylate	13.764	69	536841	101.44	ug/L	99
79) 1,1,2-trichloroethane	13.932	83	282828	101.92	ug/L	99
80) tetrachloroethene	14.152	164	289230	102.02	ug/L	99
81) 1,3-dichloropropane	14.105	76	501572	99.74	ug/L	98
82) 2-hexanone	14.105	58	814158	391.94	ug/L	99
83) butyl acetate	14.189	56	293706	100.77	ug/L	98
84) dibromochloromethane	14.341	129	410926	103.14	ug/L	99
85) 1,2-dibromoethane	14.488	107	429157	101.50	ug/L	99
86) n-butyl ether	14.881	57	1327701	103.85	ug/L	100
87) chlorobenzene	14.928	112	839495	101.30	ug/L	100
88) 1,1,1,2-tetrachloroethane	14.975	131	328302	101.26	ug/L	99
89) ethylbenzene	14.991	91	1398480	101.13	ug/L	100
90) m,p-xylene	15.091	106	1033866	198.88	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109995.D
Acq On : 20 May 2021 12:21 am
Operator : EddieH
Sample : IC4892-100
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 21 08:40:41 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

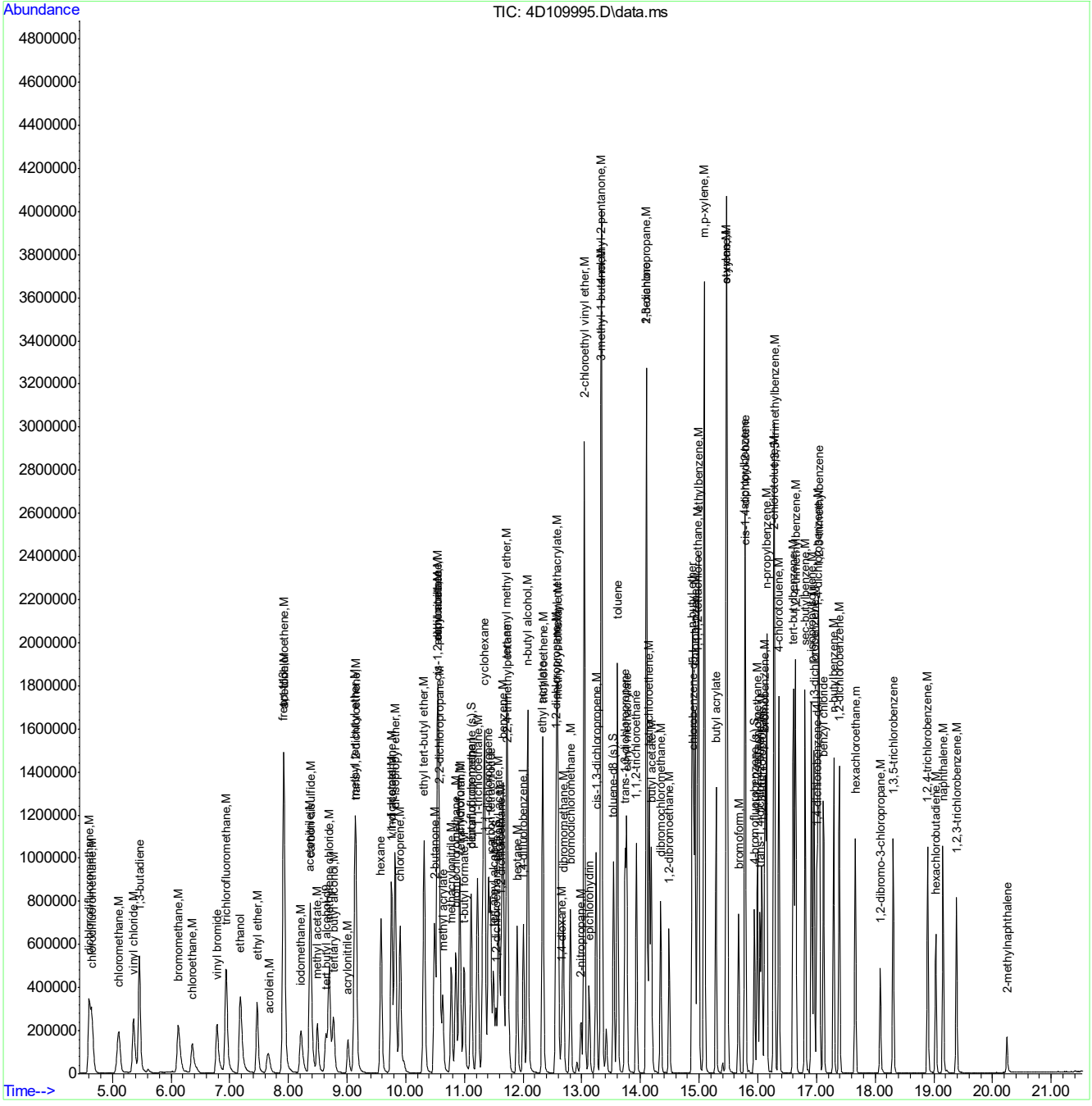
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	o-xylene	15.463	106	509992	100.62	ug/L	99
92)	styrene	15.463	104	893586	101.11	ug/L	99
93)	bromoform	15.673	173	337885	103.10	ug/L	98
94)	butyl acrylate	15.290	55	797539	103.84	ug/L	100
95)	isopropylbenzene	15.777	105	1285676	103.66	ug/L	100
96)	cis-1,4-dichloro-2-butene	15.788	88	182510	105.46	ug/L	98
99)	bromobenzene	16.124	156	372804	105.15	ug/L	99
100)	1,1,2,2-tetrachloroethane	15.992	83	481048	107.57	ug/L	99
101)	trans-1,4-dichloro-2-b...	16.034	53	135281	105.95	ug/L	98
102)	1,2,3-trichloropropane	16.071	110	132785	103.91	ug/L	99
103)	n-propylbenzene	16.150	91	1456067	105.87	ug/L	100
104)	2-chlorotoluene	16.270	126	303685	105.06	ug/L	98
105)	4-chlorotoluene	16.359	91	933270	104.73	ug/L	100
106)	1,3,5-trimethylbenzene	16.286	105	988041	105.49	ug/L	99
107)	tert-butylbenzene	16.606	134	179643	103.67	ug/L	99
108)	1,2,4-trimethylbenzene	16.643	105	996887	103.60	ug/L	100
109)	sec-butylbenzene	16.805	105	1144235	104.59	ug/L	99
110)	1,3-dichlorobenzene	16.957	146	589777	102.17	ug/L	99
111)	p-isopropyltoluene	16.915	119	949954	104.29	ug/L	100
112)	1,4-dichlorobenzene	17.031	146	604626	101.78	ug/L	99
113)	1,2,3-trimethylbenzene	17.046	105	985986	102.50	ug/L	99
114)	benzyl chloride	17.120	91	843236	101.86	ug/L	100
115)	1,2-dichlorobenzene	17.387	146	565984	102.71	ug/L	99
116)	n-butylbenzene	17.293	92	420002	108.65	ug/L	99
117)	1,2-dibromo-3-chloropr...	18.084	157	134396	103.07	ug/L	95
118)	1,3,5-trichlorobenzene	18.305	180	342723	107.22	ug/L	98
120)	1,2,4-trichlorobenzene	18.897	180	292920	111.44	ug/L	97
121)	hexachlorobutadiene	19.039	225	137479	103.44	ug/L	97
122)	naphthalene	19.154	128	763142	106.53	ug/L	99
123)	1,2,3-trichlorobenzene	19.385	180	250327	106.67	ug/L	98
124)	hexachloroethane	17.665	201	200726	108.90	ug/L	98
125)	2-methylnaphthalene	20.250	142	83437	49.55	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109995.D
Acq On : 20 May 2021 12:21 am
Operator : EddieH
Sample : IC4892-100
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 21 08:40:41 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109996.D
Acq On : 20 May 2021 12:49 am
Operator : EddieH
Sample : IC4892-200
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 21 08:41:24 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.673	65	323300	500.00	ug/L	0.04
5) pentafluorobenzene	11.116	168	436186	50.00	ug/L	0.00
52) 1,4-difluorobenzene	12.002	114	603964	50.00	ug/L	0.00
74) chlorobenzene-d5	14.902	117	487257	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.004	152	226939	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	11.116	113	207179	50.43	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.86%			
53) 1,2-dichloroethane-d4 (s)	11.541	65	219319	51.73	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 103.46%			
75) toluene-d8 (s)	13.544	98	667771	50.70	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.40%			
98) 4-bromofluorobenzene (s)	15.940	95	241654	50.20	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.40%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.799	59	806201	941.60	ug/L	99
3) ethanol	7.221	45	1527113	19285.50	ug/L	100
4) 1,4-dioxane	12.668	88	349545	4716.14	ug/L	96
6) chlorodifluoromethane	4.646	51	793107	210.38	ug/L	97
7) dichlorodifluoromethane	4.604	85	1173938	213.52	ug/L	99
8) chloromethane	5.108	50	838076	208.62	ug/L	98
9) vinyl chloride	5.365	62	865437	204.60	ug/L	100
10) 1,3-butadiene	5.464	54	659422	195.99	ug/L	99
11) bromomethane	6.114	94	380638	144.31	ug/L	99
12) chloroethane	6.345	64	465417	206.07	ug/L	98
13) trichlorofluoromethane	6.927	101	1262843	206.85	ug/L	99
14) vinyl bromide	6.775	106	576209	212.84	ug/L	98
15) ethyl ether	7.467	74	381755	205.86	ug/L	94
16) acrolein	7.677	56	133823	201.12	ug/L	96
17) freon 113	7.913	151	567759	202.05	ug/L	98
18) 1,1-dichloroethene	7.923	96	573580	198.87	ug/L	99
19) acetone	7.929	43	1365622	834.40	ug/L	98
20) acetonitrile	8.369	41	1215232	1971.46	ug/L	99
21) iodomethane	8.206	142	782828	198.20	ug/L	100
22) carbon disulfide	8.369	76	1851876	204.91	ug/L	100
23) methylene chloride	8.694	84	670674	202.72	ug/L	97
24) methyl acetate	8.495	43	775903	210.30	ug/L	99
25) methyl tert butyl ether	9.134	73	2056704	204.23	ug/L	100
26) trans-1,2-dichloroethene	9.150	96	637636	200.06	ug/L	96
27) di-isopropyl ether	9.821	45	1999092	200.66	ug/L	98
28) 2-butanone	10.498	72	506847	800.03	ug/L	96
29) 1,1-dichloroethane	9.753	63	1133860	204.96	ug/L	99
30) chloroprene	9.905	53	926033	199.62	ug/L	99
31) acrylonitrile	9.014	53	305814	209.35	ug/L	98
32) hexane	9.575	56	418312	206.45	ug/L	100
33) vinyl acetate	9.758	86	99886	194.93	ug/L #	93
34) ethyl tert-butyl ether	10.314	59	2200135	204.24	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109996.D
Acq On : 20 May 2021 12:49 am
Operator : EddieH
Sample : IC4892-200
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 21 08:41:24 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) ethyl acetate	10.555	70	123189	202.03 ug/L #	83
36) 2,2-dichloropropane	10.571	77	957756	191.95 ug/L	94
37) cis-1,2-dichloroethene	10.540	96	709222	197.67 ug/L	98
38) methyl acrylate	10.629	55	843507	202.30 ug/L	99
39) propionitrile	10.555	54	1505631	1966.09 ug/L	99
40) bromochloromethane	10.854	128	380772	200.65 ug/L	97
41) tetrahydrofuran	10.928	72	146822	203.79 ug/L	96
42) chloroform	10.917	85	821615	199.75 ug/L	98
43) t-butyl formate	10.996	59	523265	206.95 ug/L	98
45) methacrylonitrile	10.776	67	381300	203.80 ug/L	98
46) 1,1,1-trichloroethane	11.226	97	1121118	203.05 ug/L	100
47) cyclohexane	11.342	84	964131	200.39 ug/L #	82
48) 1,1-dichloropropene	11.410	75	885517	199.49 ug/L	99
50) carbon tetrachloride	11.447	117	992505	198.88 ug/L	99
51) tert amyl alcohol	11.510	55	270018	992.55 ug/L	94
54) n-butyl alcohol	12.097	56	2041625	10318.62 ug/L	99
55) 2,2,4-trimethylpentane	11.735	57	1490761	199.52 ug/L	92
56) benzene	11.662	78	2379974	193.16 ug/L	99
57) tert-amyl methyl ether	11.725	87	519685	199.00 ug/L	97
58) heptane	11.898	71	345055	207.96 ug/L	98
59) isopropyl acetate	11.588	87	201278	205.16 ug/L	96
60) 1,2-dichloroethane	11.625	62	986533	198.13 ug/L	99
61) trichloroethene	12.338	130	758439	197.08 ug/L	98
62) ethyl acrylate	12.328	55	1204889	203.09 ug/L	100
63) 2-nitropropane	12.988	43	335895	202.83 ug/L	95
64) 2-chloroethyl vinyl ether	13.041	63	2394122	952.85 ug/L	99
65) methyl methacrylate	12.579	100	249167	202.29 ug/L	97
66) 1,2-dichloropropane	12.563	63	655288	199.35 ug/L	98
67) dibromomethane	12.684	93	484583	196.90 ug/L	98
68) methylcyclohexane	12.595	83	966740	199.15 ug/L	99
69) bromodichloromethane	12.810	83	981295	202.17 ug/L	100
70) epichlorohydrin	13.130	57	576831	988.07 ug/L	98
71) cis-1,3-dichloropropene	13.245	75	1121370	210.83 ug/L	99
72) 4-methyl-2-pentanone	13.339	58	1409804	757.00 ug/L	97
73) 3-methyl-1-butanol	13.334	70	733707	4042.70 ug/L	99
76) toluene	13.607	92	1503218	194.46 ug/L	99
77) trans-1,3-dichloropropene	13.738	75	1052620	201.90 ug/L	99
78) ethyl methacrylate	13.764	69	1057389	199.22 ug/L	100
79) 1,1,2-trichloroethane	13.932	83	556314	199.91 ug/L	100
80) tetrachloroethene	14.152	164	564760	198.64 ug/L	99
81) 1,3-dichloropropane	14.105	76	967756	191.90 ug/L	96
82) 2-hexanone	14.110	58	1575897	756.46 ug/L	96
83) butyl acetate	14.189	56	576891	197.37 ug/L	97
84) dibromochloromethane	14.341	129	824350	206.32 ug/L	99
85) 1,2-dibromoethane	14.488	107	853436	201.26 ug/L	98
86) n-butyl ether	14.881	57	2601384	202.89 ug/L	99
87) chlorobenzene	14.928	112	1658671	199.58 ug/L	99
88) 1,1,1,2-tetrachloroethane	14.975	131	656927	202.03 ug/L	99
89) ethylbenzene	14.991	91	2650692	191.13 ug/L	100
90) m,p-xylene	15.091	106	1970701	378.01 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109996.D
Acq On : 20 May 2021 12:49 am
Operator : EddieH
Sample : IC4892-200
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 21 08:41:24 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration

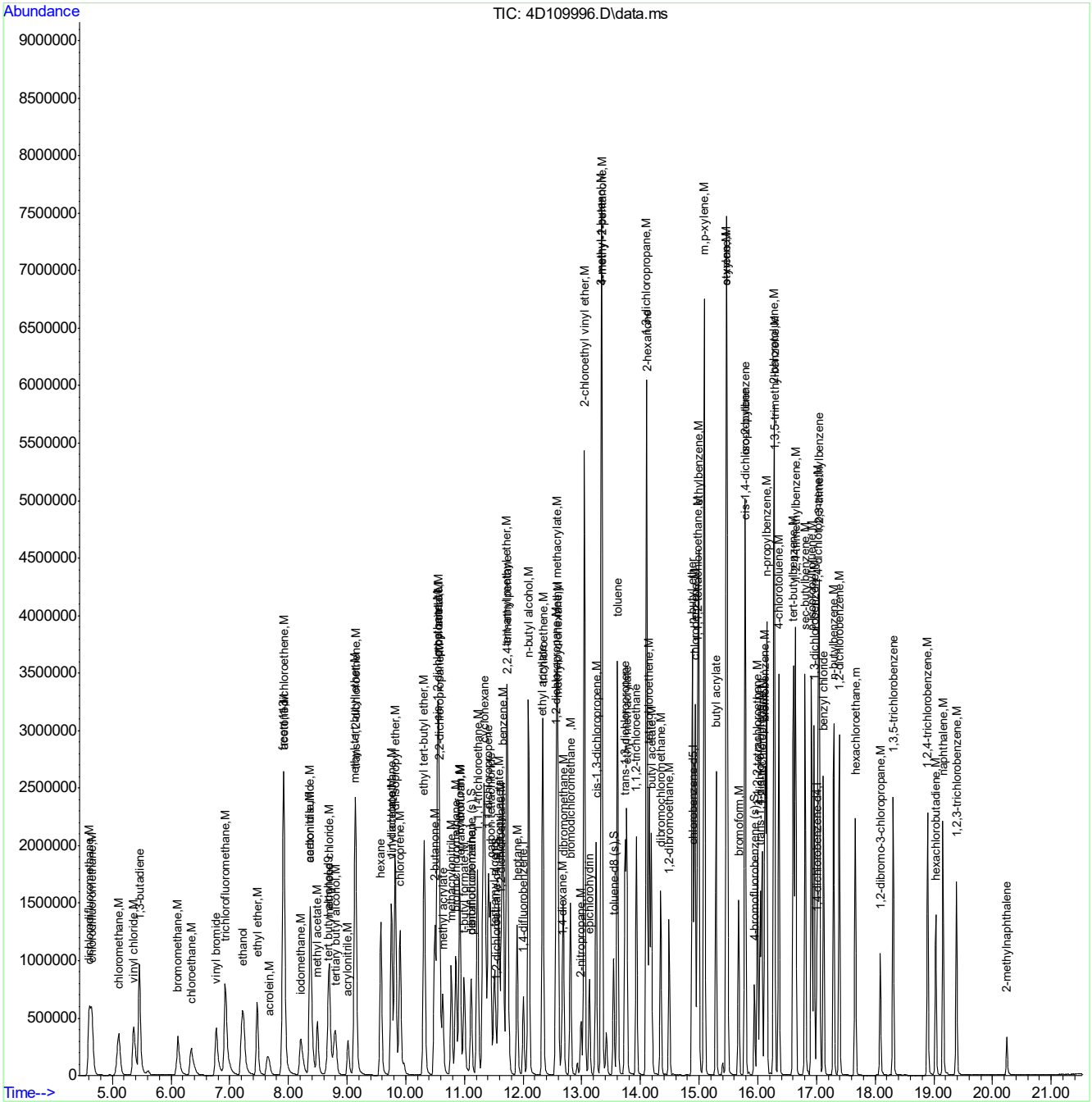
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	o-xylene	15.463	106	961400	189.14	ug/L	98
92)	styrene	15.463	104	1694281	191.17	ug/L	99
93)	bromoform	15.673	173	699936	212.97	ug/L	98
94)	butyl acrylate	15.290	55	1576070	204.63	ug/L	99
95)	isopropylbenzene	15.783	105	2502797	201.21	ug/L	98
96)	cis-1,4-dichloro-2-butene	15.788	88	374265	215.64	ug/L	98
99)	bromobenzene	16.123	156	744759	192.82	ug/L	97
100)	1,1,2,2-tetrachloroethane	15.992	83	952726	195.56	ug/L	99
101)	trans-1,4-dichloro-2-b...	16.040	53	278855	200.48	ug/L	91
102)	1,2,3-trichloropropane	16.071	110	270257	194.15	ug/L	99
103)	n-propylbenzene	16.150	91	2810963	187.62	ug/L	99
104)	2-chlorotoluene	16.276	126	599536	190.39	ug/L	97
105)	4-chlorotoluene	16.359	91	1839558	189.49	ug/L	99
106)	1,3,5-trimethylbenzene	16.286	105	1937284	189.88	ug/L	99
107)	tert-butylbenzene	16.606	134	368184	195.05	ug/L	96
108)	1,2,4-trimethylbenzene	16.643	105	2015321	192.26	ug/L	99
109)	sec-butylbenzene	16.805	105	2311645	193.96	ug/L	99
110)	1,3-dichlorobenzene	16.957	146	1215149	193.24	ug/L	99
111)	p-isopropyltoluene	16.915	119	1951678	196.69	ug/L	99
112)	1,4-dichlorobenzene	17.031	146	1242410	191.99	ug/L	100
113)	1,2,3-trimethylbenzene	17.046	105	2007150	191.53	ug/L	98
114)	benzyl chloride	17.120	91	1730950	191.93	ug/L	99
115)	1,2-dichlorobenzene	17.387	146	1193012	198.73	ug/L	99
116)	n-butylbenzene	17.293	92	878917	208.72	ug/L	98
117)	1,2-dibromo-3-chloropr...	18.084	157	295715	208.18	ug/L	95
118)	1,3,5-trichlorobenzene	18.305	180	761796	218.78	ug/L	98
120)	1,2,4-trichlorobenzene	18.897	180	650629	227.22	ug/L	99
121)	hexachlorobutadiene	19.039	225	302746	209.10	ug/L	99
122)	naphthalene	19.154	128	1641080	210.29	ug/L	99
123)	1,2,3-trichlorobenzene	19.385	180	538579	210.67	ug/L	97
124)	hexachloroethane	17.665	201	430339	214.31	ug/L	99
125)	2-methylnaphthalene	20.244	142	163059	88.89	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109996.D
Acq On : 20 May 2021 12:49 am
Operator : EddieH
Sample : IC4892-200
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 21 08:41:24 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 08:29:39 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109999.D
Acq On : 20 May 2021 2:14 am
Operator : EddieH
Sample : ICV4892-50
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 21 16:36:10 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 10:28:08 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	8.631	65	307378	500.00	ug/L		0.00
5) pentafluorobenzene	11.116	168	445197	50.00	ug/L		0.00
52) 1,4-difluorobenzene	12.002	114	610516	50.00	ug/L		0.00
74) chlorobenzene-d5	14.902	117	490750	50.00	ug/L		0.00
97) 1,4-dichlorobenzene-d4	17.004	152	215345	50.00	ug/L		0.00
System Monitoring Compounds							
44) dibromofluoromethane (s)	11.116	113	208449	49.58	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.16%				
53) 1,2-dichloroethane-d4 (s)	11.541	65	218111	48.70	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 97.40%				
75) toluene-d8 (s)	13.539	98	658777	49.02	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.04%				
98) 4-bromofluorobenzene (s)	15.940	95	243218	51.70	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.40%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	8.757	59	209377	264.03	ug/L		99
3) ethanol	7.163	45	395919	5252.00	ug/L		99
4) 1,4-dioxane	12.658	88	90627	1366.55	ug/L		97
7) dichlorodifluoromethane	4.599	85	290128	51.01	ug/L		99
8) chloromethane	5.097	50	196887	43.59	ug/L		100
9) vinyl chloride	5.354	62	214141	48.26	ug/L		97
10) 1,3-butadiene	5.459	54	165592	44.76	ug/L		97
11) bromomethane	6.135	94	141623	54.25	ug/L		98
12) chloroethane	6.371	64	113865	49.24	ug/L		98
13) trichlorofluoromethane	6.938	101	313181	49.94	ug/L		99
14) vinyl bromide	6.791	106	156072	56.56	ug/L		99
15) ethyl ether	7.467	74	95550	50.46	ug/L		97
16) acrolein	7.677	56	41155	62.22	ug/L		99
17) freon 113	7.923	151	134319	46.94	ug/L		99
18) 1,1-dichloroethene	7.929	96	148182	46.85	ug/L		98
19) acetone	7.923	43	327944	194.90	ug/L		96
21) iodomethane	8.212	142	156676	49.78	ug/L		98
22) carbon disulfide	8.379	76	456939	46.70	ug/L		99
23) methylene chloride	8.694	84	170863	47.73	ug/L		97
24) methyl acetate	8.495	43	178168	45.64	ug/L		96
25) methyl tert butyl ether	9.134	73	1050139	97.23	ug/L		99
26) trans-1,2-dichloroethene	9.155	96	162977	45.91	ug/L		95
27) di-isopropyl ether	9.816	45	489496	46.61	ug/L		99
28) 2-butanone	10.492	72	131043	205.89	ug/L		89
29) 1,1-dichloroethane	9.753	63	291872	50.83	ug/L		100
30) chloroprene	9.905	53	255503	55.91	ug/L		99
32) hexane	9.580	56	103731	48.84	ug/L		99
33) vinyl acetate	9.764	86	24940	42.70	ug/L		99
34) ethyl tert-butyl ether	10.314	59	514257	47.60	ug/L		99
35) ethyl acetate	10.550	70	30004	49.00	ug/L	#	66
36) 2,2-dichloropropane	10.571	77	240913	45.77	ug/L		99
37) cis-1,2-dichloroethene	10.545	96	184591	48.21	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109999.D
Acq On : 20 May 2021 2:14 am
Operator : EddieH
Sample : ICV4892-50
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 21 16:36:10 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 10:28:08 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) methyl acrylate	10.629	55	202054	45.27	ug/L	98
39) propionitrile	10.545	54	386090	508.69	ug/L	99
40) bromochloromethane	10.854	128	96057	50.33	ug/L	97
41) tetrahydrofuran	10.928	72	36508	45.82	ug/L	87
42) chloroform	10.917	85	231353	52.21	ug/L	97
43) t-butyl formate	10.996	59	80428	27.49	ug/L	98
45) methacrylonitrile	10.775	67	93686	50.14	ug/L	99
46) 1,1,1-trichloroethane	11.226	97	276077	48.99	ug/L	99
47) cyclohexane	11.342	84	221398	45.81	ug/L	96
48) 1,1-dichloropropene	11.410	75	219736	49.02	ug/L	98
50) carbon tetrachloride	11.447	117	249262	50.17	ug/L	98
51) tert amyl alcohol	11.494	55	69347	242.94	ug/L	96
54) n-butyl alcohol	12.071	56	479526	2448.11	ug/L	100
55) 2,2,4-trimethylpentane	11.740	57	351095	44.83	ug/L	97
56) benzene	11.662	78	616148	49.29	ug/L	99
57) tert-amyl methyl ether	11.724	87	117589	45.19	ug/L	98
58) heptane	11.898	71	81643	48.66	ug/L	98
59) isopropyl acetate	11.583	87	48398	48.44	ug/L	97
60) 1,2-dichloroethane	11.630	62	250557	48.03	ug/L	98
61) trichloroethene	12.338	130	189945	51.44	ug/L	97
62) ethyl acrylate	12.327	55	291310	47.91	ug/L	99
63) 2-nitropropane	12.988	43	83049	46.46	ug/L	97
64) 2-chloroethyl vinyl ether	13.040	63	605160	246.82	ug/L	100
65) methyl methacrylate	12.579	100	59902	49.16	ug/L	99
66) 1,2-dichloropropane	12.563	63	164242	50.77	ug/L	98
67) dibromomethane	12.684	93	121157	48.36	ug/L	97
68) methylcyclohexane	12.595	83	228583	47.41	ug/L	99
69) bromodichloromethane	12.810	83	245218	49.15	ug/L	99
70) epichlorohydrin	13.124	57	145584	243.14	ug/L	100
71) cis-1,3-dichloropropene	13.245	75	268235	48.98	ug/L	98
72) 4-methyl-2-pentanone	13.334	58	384400	203.23	ug/L	99
73) 3-methyl-1-butanol	13.324	70	184411	1020.51	ug/L	99
76) toluene	13.607	92	380362	49.70	ug/L	99
77) trans-1,3-dichloropropene	13.738	75	261070	50.71	ug/L	99
78) ethyl methacrylate	13.764	69	247774	48.77	ug/L	100
79) 1,1,2-trichloroethane	13.932	83	136670	50.26	ug/L	99
81) 1,3-dichloropropane	14.105	76	248084	49.78	ug/L	99
82) 2-hexanone	14.105	58	406512	204.41	ug/L	99
83) butyl acetate	14.189	56	143660	49.57	ug/L	99
84) dibromochloromethane	14.341	129	207408	51.32	ug/L	99
85) 1,2-dibromoethane	14.488	107	214859	51.22	ug/L	99
86) n-butyl ether	14.881	57	625219	49.51	ug/L	100
87) chlorobenzene	14.928	112	412193	49.59	ug/L	99
88) 1,1,1,2-tetrachloroethane	14.975	131	165015	51.74	ug/L	100
89) ethylbenzene	14.991	91	684861	49.54	ug/L	100
90) m,p-xylene	15.091	106	521198	101.59	ug/L	98
91) o-xylene	15.463	106	254039	51.03	ug/L	98
92) styrene	15.463	104	439032	52.03	ug/L	100
93) bromoform	15.672	173	175745	54.66	ug/L	98
94) butyl acrylate	15.290	55	377740	50.67	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109999.D
Acq On : 20 May 2021 2:14 am
Operator : EddieH
Sample : ICV4892-50
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 21 16:36:10 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 10:28:08 2021
Response via : Initial Calibration

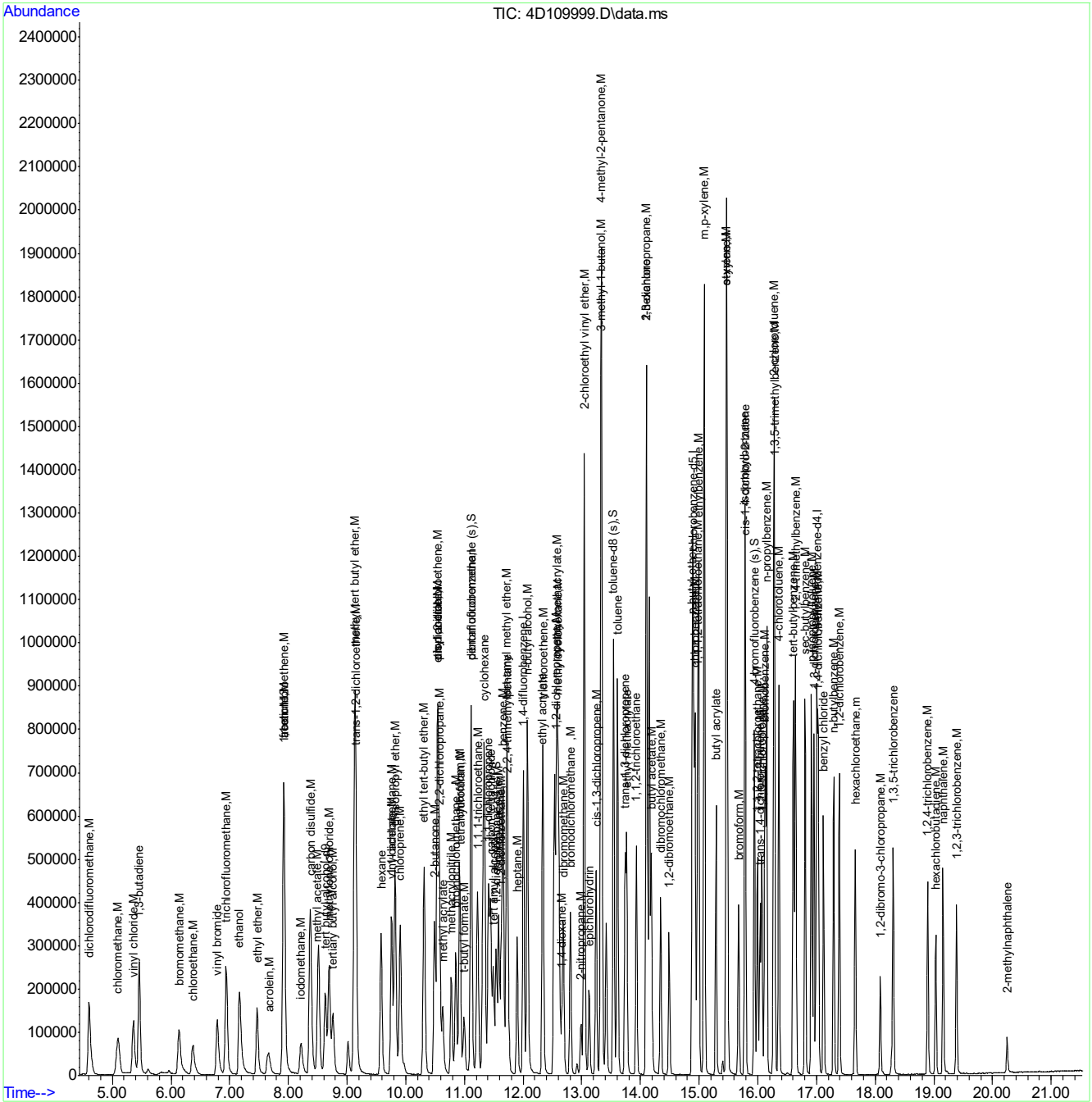
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) isopropylbenzene	15.777	105	653372	52.86	ug/L	99
96) cis-1,4-dichloro-2-butene	15.788	88	91201	54.40	ug/L	97
99) bromobenzene	16.123	156	196039	53.46	ug/L	96
100) 1,1,2,2-tetrachloroethane	15.992	83	234684	49.45	ug/L	99
101) trans-1,4-dichloro-2-b...	16.034	53	70903	55.97	ug/L	98
102) 1,2,3-trichloropropane	16.066	110	69418	53.50	ug/L	98
103) n-propylbenzene	16.150	91	742144	51.25	ug/L	99
104) 2-chlorotoluene	16.275	126	161876	55.35	ug/L	97
105) 4-chlorotoluene	16.359	91	480613	50.14	ug/L	98
106) 1,3,5-trimethylbenzene	16.286	105	516438	52.79	ug/L	99
107) tert-butylbenzene	16.606	134	88117	50.63	ug/L	98
108) 1,2,4-trimethylbenzene	16.642	105	485627	49.55	ug/L	99
109) sec-butylbenzene	16.805	105	567180	50.27	ug/L	99
110) 1,3-dichlorobenzene	16.957	146	309708	52.75	ug/L	99
111) p-isopropyltoluene	16.915	119	480325	52.12	ug/L	100
112) 1,4-dichlorobenzene	17.030	146	304885	50.67	ug/L	100
114) benzyl chloride	17.120	91	400341	47.97	ug/L	99
115) 1,2-dichlorobenzene	17.387	146	277242	50.13	ug/L	99
116) n-butylbenzene	17.293	92	198618	51.70	ug/L	99
117) 1,2-dibromo-3-chloropr...	18.090	157	63146	48.73	ug/L	99
118) 1,3,5-trichlorobenzene	18.305	180	159827	49.91	ug/L	97
120) 1,2,4-trichlorobenzene	18.897	180	135659	51.76	ug/L	99
121) hexachlorobutadiene	19.033	225	68003	51.93	ug/L	97
122) naphthalene	19.154	128	360359	52.37	ug/L	99
123) 1,2,3-trichlorobenzene	19.385	180	121109	52.33	ug/L	99
124) hexachloroethane	17.665	201	95145	51.16	ug/L	99
125) 2-methylnaphthalene	20.250	142	43728	25.28	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D109999.D
Acq On : 20 May 2021 2:14 am
Operator : EddieH
Sample : ICV4892-50
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 21 16:36:10 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 10:28:08 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D110000.D
Acq On : 20 May 2021 2:43 am
Operator : EddieH
Sample : ICV4892-50
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 21 16:36:56 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 10:28:08 2021
Response via : Initial Calibration

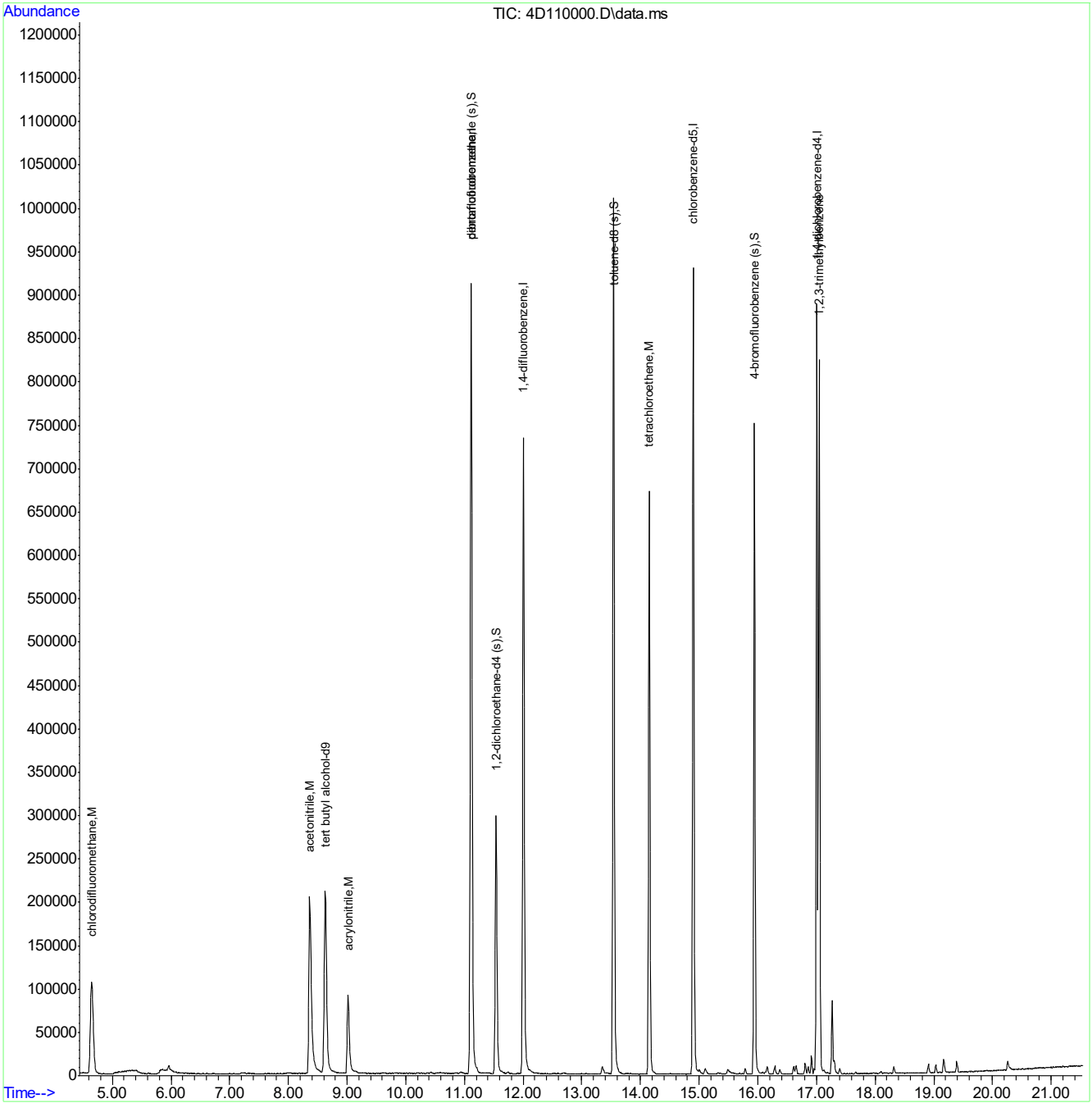
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.631	65	346400	500.00	ug/L	0.00
5) pentafluorobenzene	11.117	168	479657	50.00	ug/L	0.00
52) 1,4-difluorobenzene	12.003	114	657523	50.00	ug/L	0.00
74) chlorobenzene-d5	14.902	117	510901	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.004	152	219878	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	11.117	113	224417	49.54	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.08%			
53) 1,2-dichloroethane-d4 (s)	11.541	65	237006	49.13	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 98.26%			
75) toluene-d8 (s)	13.544	98	697876	49.88	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.76%			
98) 4-bromofluorobenzene (s)	15.940	95	238609	49.68	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.36%			
Target Compounds						Qvalue
6) chlorodifluoromethane	4.647	51	248762	57.69	ug/L	96
20) acetonitrile	8.364	41	335486	459.30	ug/L	100
31) acrylonitrile	9.019	53	96725	61.31	ug/L	99
80) tetrachloroethene	14.152	164	153410	53.00	ug/L	98
113) 1,2,3-trimethylbenzene	17.046	105	433442	42.88	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4892\
Data File : 4D110000.D
Acq On : 20 May 2021 2:43 am
Operator : EddieH
Sample : ICV4892-50
Misc : MS50838,V4D4892,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 21 16:36:56 2021
Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri May 21 10:28:08 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\08-20-21\v4d4985\
Data File : 4d111912.d
Acq On : 19 Aug 2021 10:18 am
Operator : jons2
Sample : cc4892-20 Inst : MS4D
Misc : MS53003,V4D4985,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Results File: M4D4892.RES
Quant Time: Aug 19 17:33:20 2021
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 03 17:27:40 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.621	65	301037	500.00	ug/L	-0.01
5) pentafluorobenzene	11.111	168	390490	50.00	ug/L	0.00
52) 1,4-difluorobenzene	12.003	114	540829	50.00	ug/L	0.00
74) chlorobenzene-d5	14.897	117	436358	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.004	152	192473	50.00	ug/L	0.00
126) pentafluorobenzene(a)	11.111	168	390490	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	11.111	113	189493	51.38	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.76%			
53) 1,2-dichloroethane-d4 (s)	11.536	65	229716	57.90	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 115.80%			
75) toluene-d8 (s)	13.539	98	567557	47.50	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.00%			
98) 4-bromofluorobenzene (s)	15.935	95	199587	47.47	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 94.94%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.757	59	73351	94.44	ug/L	96
3) ethanol	7.163	45	140583	1904.16	ug/L	96
4) 1,4-dioxane	12.658	88	29282	450.84	ug/L	90
6) chlorodifluoromethane	4.657	51	57214	16.30	ug/L	96
7) dichlorodifluoromethane	4.605	85	84103	16.86	ug/L	95
8) chloromethane	5.113	50	76553	19.32	ug/L	90
9) vinyl chloride	5.354	62	71965	18.49	ug/L	95
10) 1,3-butadiene	5.459	54	46336	14.28	ug/L	99
11) bromomethane	6.141	94	32317	14.11	ug/L	91
12) chloroethane	6.372	64	37930	18.70	ug/L	95
13) trichlorofluoromethane	6.943	101	104037	18.91	ug/L	98
14) vinyl bromide	6.791	106	36406	15.04	ug/L	90
15) ethyl ether	7.473	74	30815	18.55	ug/L	99
16) acrolein	7.688	56	13471	23.22	ug/L	95
17) freon 113	7.929	151	43920	17.50	ug/L	97
18) 1,1-dichloroethene	7.929	96	46185	16.65	ug/L	91
19) acetone	7.929	43	112182	76.01	ug/L	94
20) acetonitrile	8.364	41	118078	198.57	ug/L	97
21) iodomethane	8.212	142	31874	11.55	ug/L	91
22) carbon disulfide	8.374	76	137697	16.04	ug/L	99
23) methylene chloride	8.694	84	56817	18.10	ug/L	91
24) methyl acetate	8.500	43	70376	20.56	ug/L	97
25) methyl tert butyl ether	9.129	73	189252	19.98	ug/L	95
26) trans-1,2-dichloroethene	9.156	96	55337	17.77	ug/L	98
27) di-isopropyl ether	9.816	45	197366	21.43	ug/L	96
28) 2-butanone	10.493	72	43873	78.59	ug/L	89
29) 1,1-dichloroethane	9.753	63	104784	20.81	ug/L	98
30) chloroprene	9.905	53	87607	21.85	ug/L	97
31) acrylonitrile	9.019	53	25638	19.96	ug/L	95
32) hexane	9.575	56	36587	19.64	ug/L	95
33) vinyl acetate	9.759	86	14152	27.62	ug/L #	84
34) ethyl tert-butyl ether	10.314	59	202865	21.41	ug/L	97
35) ethyl acetate	10.550	70	9615	17.90	ug/L #	61
36) 2,2-dichloropropane	10.571	77	96850	20.98	ug/L	97
37) cis-1,2-dichloroethene	10.540	96	61845	18.42	ug/L	96
38) methyl acrylate	10.629	55	76600	19.57	ug/L	99
39) propionitrile	10.540	54	136475	205.00	ug/L	98
40) bromochloromethane	10.854	128	31181	18.63	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\08-20-21\v4d4985\
Data File : 4d111912.d
Acq On : 19 Aug 2021 10:18 am
Operator : jons2
Sample : cc4892-20 Inst : MS4D
Misc : MS53003,V4D4985,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Results File: M4D4892.RES
Quant Time: Aug 19 17:33:20 2021
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 03 17:27:40 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) tetrahydrofuran	10.928	72	13242	18.95	ug/L		88
42) chloroform	10.917	85	74366	19.13	ug/L		99
43) t-butyl formate	10.996	59	70072	27.31	ug/L		95
45) methacrylonitrile	10.776	67	31821	19.41	ug/L		91
46) 1,1,1-trichloroethane	11.221	97	100411	20.32	ug/L		96
47) cyclohexane	11.337	84	67447	15.91	ug/L	#	76
48) 1,1-dichloropropene	11.410	75	75123	19.11	ug/L		97
50) carbon tetrachloride	11.447	117	89929	20.63	ug/L		95
51) tert amyl alcohol	11.484	55	24635	98.39	ug/L		85
54) n-butyl alcohol	12.066	56	161546	931.01	ug/L		96
55) 2,2,4-trimethylpentane	11.735	57	122057	17.59	ug/L		94
56) benzene	11.657	78	213465	19.28	ug/L		99
57) tert-amyl methyl ether	11.720	87	46999	20.39	ug/L		95
58) heptane	11.898	71	27714	18.65	ug/L		97
59) isopropyl acetate	11.583	87	16703	18.87	ug/L		94
60) 1,2-dichloroethane	11.625	62	94217	20.39	ug/L		100
61) trichloroethene	12.333	130	57596	17.61	ug/L		97
62) ethyl acrylate	12.328	55	97328	18.07	ug/L		99
63) 2-nitropropane	12.988	43	27587	17.42	ug/L		98
64) 2-chloroethyl vinyl ether	13.036	63	197466	90.91	ug/L		98
65) methyl methacrylate	12.579	100	19142	17.73	ug/L	#	72
66) 1,2-dichloropropane	12.558	63	54436	19.00	ug/L		98
67) dibromomethane	12.684	93	41668	18.77	ug/L		94
68) methylcyclohexane	12.595	83	74490	17.44	ug/L		94
69) bromodichloromethane	12.805	83	85256	19.29	ug/L		99
70) epichlorohydrin	13.125	57	47332	89.23	ug/L		97
71) cis-1,3-dichloropropene	13.240	75	93823	19.34	ug/L		94
72) 4-methyl-2-pentanone	13.334	58	118493	70.72	ug/L		100
73) 3-methyl-1-butanol	13.319	70	56520	353.08	ug/L		94
76) toluene	13.607	92	118919	17.47	ug/L		100
77) trans-1,3-dichloropropene	13.738	75	85866	18.76	ug/L		98
78) ethyl methacrylate	13.764	69	79269	17.55	ug/L		97
79) 1,1,2-trichloroethane	13.932	83	44282	18.32	ug/L		97
80) tetrachloroethene	14.152	164	46957	18.99	ug/L		96
81) 1,3-dichloropropane	14.100	76	78407	17.69	ug/L		94
82) 2-hexanone	14.105	58	121377	68.64	ug/L		100
83) butyl acetate	14.189	56	44324	17.20	ug/L		98
84) dibromochloromethane	14.341	129	65789	18.31	ug/L		96
85) 1,2-dibromoethane	14.488	107	72779	19.51	ug/L		97
86) n-butyl ether	14.881	57	187160	16.67	ug/L		99
87) chlorobenzene	14.928	112	127199	17.21	ug/L		97
88) 1,1,1,2-tetrachloroethane	14.970	131	54573	19.24	ug/L		94
89) ethylbenzene	14.991	91	218309	17.76	ug/L		98
90) m,p-xylene	15.086	106	164616	36.09	ug/L		96
91) o-xylene	15.463	106	79678	18.00	ug/L		100
92) styrene	15.463	104	138854	18.51	ug/L		97
93) bromoform	15.668	173	53101	18.58	ug/L		98
94) butyl acrylate	15.290	55	110076	16.61	ug/L		98
95) isopropylbenzene	15.778	105	200486	18.24	ug/L		99
96) cis-1,4-dichloro-2-butene	15.788	88	27933	18.74	ug/L	#	85
99) bromobenzene	16.124	156	58208	17.76	ug/L		93
100) 1,1,2,2-tetrachloroethane	15.993	83	72751	17.15	ug/L		99
101) trans-1,4-dichloro-2-b...	16.035	53	20531	18.13	ug/L		88
102) 1,2,3-trichloropropane	16.071	110	21293	18.36	ug/L		94
103) n-propylbenzene	16.150	91	227350	17.57	ug/L		99
104) 2-chlorotoluene	16.270	126	47738	18.26	ug/L		98
105) 4-chlorotoluene	16.360	91	147923	17.26	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\08-20-21\v4d4985\
Data File : 4d111912.d
Acq On : 19 Aug 2021 10:18 am
Operator : jons2
Sample : cc4892-20 Inst : MS4D
Misc : MS53003,V4D4985,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Results File: M4D4892.RES
Quant Time: Aug 19 17:33:20 2021
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 03 17:27:40 2021
Response via : Initial Calibration

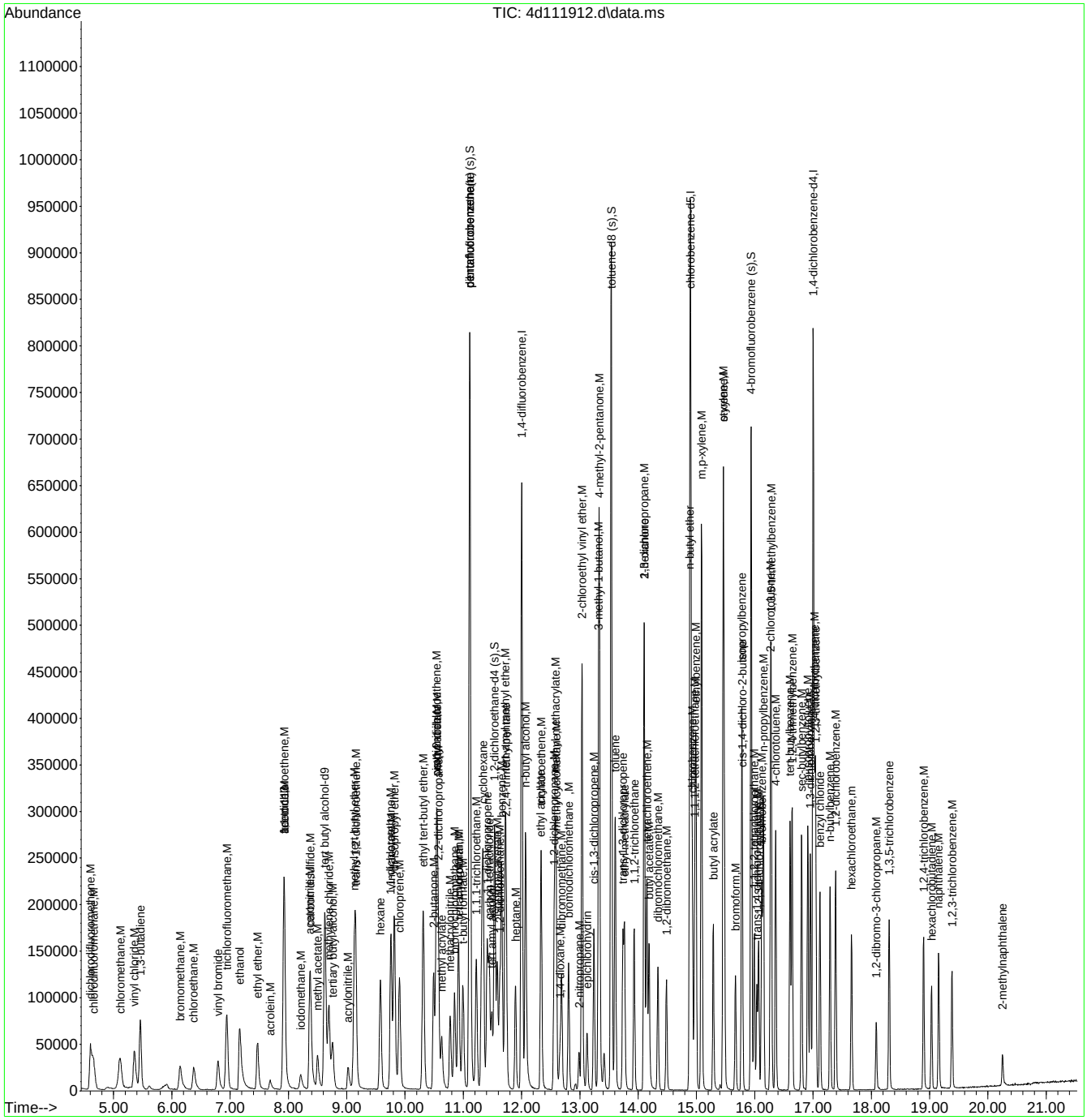
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) 1,3,5-trimethylbenzene	16.281	105	156237	17.87	ug/L	98
107) tert-butylbenzene	16.606	134	26730	17.18	ug/L #	89
108) 1,2,4-trimethylbenzene	16.643	105	156700	17.89	ug/L	99
109) sec-butylbenzene	16.805	105	174382	17.29	ug/L	97
110) 1,3-dichlorobenzene	16.952	146	94448	18.00	ug/L	99
111) p-isopropyltoluene	16.910	119	147984	17.97	ug/L	97
112) 1,4-dichlorobenzene	17.025	146	94809	17.63	ug/L	97
113) 1,2,3-trimethylbenzene	17.046	105	152640	17.25	ug/L	98
114) benzyl chloride	17.120	91	142513	19.11	ug/L	98
115) 1,2-dichlorobenzene	17.387	146	88712	17.95	ug/L	99
116) n-butylbenzene	17.293	92	61479	17.90	ug/L	92
117) 1,2-dibromo-3-chloropr...	18.085	157	18447	15.93	ug/L	89
118) 1,3,5-trichlorobenzene	18.305	180	56333	19.68	ug/L	99
120) 1,2,4-trichlorobenzene	18.897	180	44475	18.99	ug/L	98
121) hexachlorobutadiene	19.034	225	22622	19.33	ug/L	99
122) naphthalene	19.154	128	107768	17.52	ug/L	100
123) 1,2,3-trichlorobenzene	19.385	180	38189	18.46	ug/L	93
124) hexachloroethane	17.660	201	28160	16.94	ug/L	97
125) 2-methylnaphthalene	20.250	142	19452	12.58	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\08-20-21\v4d4985\
Data File : 4d111912.d
Acq On : 19 Aug 2021 10:18 am
Operator : jons2
Sample : cc4892-20 Inst : MS4D
Misc : MS53003,V4D4985,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4892.M
Quant Results File: M4D4892.RES
Quant Time: Aug 19 17:33:20 2021
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 03 17:27:40 2021
Response via : Initial Calibration



GCMS Volatile Run Log

Standard / Reagents	Lot #			
Standard	ABK: V021-2718-47.63	EC: V021-2718-77.9	AA: V021-2718-70.6	Ext.Chlorodifluoromethane: v021-2718-58
Standard Concentration	100-10,000 PPM	100 PPM	100 PPM	100 PPM
Expiration Date	7/23/2021	7/22/2021	8/8/2021	7/29/2021
Ext.Standard	Ext.ABK: V021-2718-54.7	Ext.EC: V021-2718-79.4	Ext.Acrolein: V021-2718-38.6	Ext.PA: V021-2718-39.1
Standard Concentration	100-10,000 PPM	100 PPM	100 PPM	100-1,000 PPM
Expiration Date	7/25/2021	7/22/2021	7/16/2021	7/16/2021
Internal Surrogate	V021-2718-76	Ext.EC: V021-2718-79.3		
Internal Surrogate Concentration	50/500ppm	100 PPM		
Expiration Date	8/15/2021	7/22/2021		
Initial Calibration Method	M1CS7827 // 7/15/2021			
Rough Reviewed by	Prashant B. Shukla			

Standard / Reagents			
GCMS1C	Instrument ID:	Sequence loaded by	Prashant B. Shukla
Analysis Date	7/15/2021	Data processed by	Robert Szot
Column	Rxi-624(60mx0.25mmx1.4um)	Batch ID	V1C7827
Method	V8260D	Matrix	SO
Init Calib Date	7/15/2021	Approved By:	MOHUI
Init Calib Quant Method	M1CS7827	Approved Date:	7/19/2021 9:25:43 AM
DI Purge Volume	5		

Data File	Sample ID	Bot #	Dil	Workgroup #	Test	Smpl Amt (g)	MeOH/ DI FV (ml)	MeOH Purge (uL)	ALS #	Status	Comments
1C 179464	BFB		NA		TUNE	5.0	5		1	OK	7.04 PM
1C 179465	IC7827-0.2		NA		ICC 8260 Soil	5.0	5		2	OK	1uL Std.A/B/K,EC,AA in 500mL DI H2O
1C 179466	IC7827-0.5		NA		ICC 8260 Soil	5.0	5		3	OK	1uL Std.A/B/K,EC,AA in 200mL DI H2O
1C 179467	IC7827-1		NA		ICC 8260 Soil	5.0	5		4	OK	1uL Std.A/B/K,EC,AA in 100mL DI H2O
1C 179468	IC7827-2		NA		ICC 8260 Soil	5.0	5		5	OK	1uL Std.A/B/K,EC,AA in 50mL DI H2O
1C 179469	IC7827-4		NA		ICC 8260 Soil	5.0	5		6	OK	2uL Std.A/B/K,EC,AA in 50mL DI H2O

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Smpl Amt (g)	MeOH/ DI FV (ml)	MeOH Purge (uL)	ALS #	Status	Comments
1C	179470	IC7827-8		NA		ICC 8260 Soil	5.0	5		7	OK	4uL Std.A/B/K,EC,AA in 50mL DI H2O
1C	179471	IC7827-20		NA		ICC 8260 Soil	5.0	5		8	OK	10uL Std.A/B/K,EC,AA in 50mL DI H2O
1C	179472	ICC7827-50		NA		ICC 8260 Soil	5.0	5		9	OK	25uL Std.A/B/K,EC,AA in 50mL DI H2O
1C	179473	IC7827-100		NA		ICC 8260 Soil	5.0	5		10	OK	50uL Std.A/B/K,EC,AA in 50mL DI H2O
1C	179474	IC7827-200		NA		ICC 8260 Soil	5.0	5		11	OK	100uL Std.A/B/K,EC,AA in 50mL DI H2O
1C	179475	IB		NA			5.0	5		12	OK	
1C	179476	IB		NA			5.0	5		13	OK	
1C	179477	ICV7827-50		NA		ICV 8260 Soil	5.0	5		14	OK	25uL Ext.A/B/K,EC,Acrolein, in 50mL DI H2O
1C	179478	ICV7827-50		NA		ICV 8260 Soil	5.0	5		15	OK	25uL Ext.PA,Chlorodifluoromethane in 50mL DI H2O
1C	179479	IB		NA			5.0	5		16	OK	
1C	179480	BFB2		NA		TUNE	5.0	5		17	OK	11:04 AM (7/16/2021)
1C	179481	ICV7827-50		NA		ICV 8260 Soil	5.0	5		18	OK	25uL Ext.EC in 50mL DI H2O (V021-2718-79.3)

GCMS Volatile Run Log

Standard / Reagents	Lot #			
Standard	ABK: V021-2718-90.64	EC: V021-2718-123.4	AA: V021-2718-118.10	
Standard Concentration	100-10,000 PPM	100 PPM	100 PPM	
Expiration Date	8/23/2021	8/20/2021	9/10/2021	
Internal Surrogate	V021-2718-112			
Internal Surrogate Concentration	50/500 PPM			
Expiration Date	9/6/2021			
Initial Calibration Method	M1CS7827 // 7/15/2021			
Rough Reviewed by	Prashant B. Shukla			

Standard / Reagents			
GCMS1C	Instrument ID:	Sequence loaded by	Prashant B. Shukla
Analysis Date	8/18/2021	Data processed by	nizele
Column	Rxi-624(60mx0.25mmx1.4um)	Batch ID	V1C7855
Method	V8260D	Matrix	SO
Init Calib Date	7/15/2021	Approved By:	MOHUI
Init Calib Quant Method	M1CS7827	Approved Date:	8/20/2021 9:45:11 AM
DI Purge Volume	5		

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Smpl Amt (g)	MeOH/ DI FV (ml)	MeOH Purge (uL)	ALS #	Status	Comments
1C	180226	BFB/CC7827-50		NA			5.0	5		1	OK/OK	25uL Std.A/B/K,EC,AA in 50ml DI H2O, # 6 low, 10:17 AM
1C	180227	CC7827-4		NA			5.0	5		2	OK	2uL Std.A/B/K,EC,AA in 50ml DI H2O, for # 6
1C	180228	BS		NA			5.0	5		3	OK	25uL Std.A/B/K,EC,AA in 50ml DI H2O
1C	180229	IB		NA			5.0	5		4	OK	
1C	180230	MB		NA			5.0	5		5	OK	
1C	180231	JD29855-9	5	NA	MS52972	V8260SL	6.2	5		6	OK	

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Smpl Amt (g)	MeOH/ DI FV (ml)	MeOH Purge (uL)	ALS #	Status	Comments
1C	180232	JD29908-2	3	NA	MS53009	V8260TCL20+,Acrolein ,ACRYL.TBA	5.0	5		7	OK	124TMB,HEX
1C	180233	JD29908-4	3	NA	MS53009	V8260TCL20+,Acrolein ,ACRYL.TBA	5.2	5		8	OK	124TMB,HEX
1C	180234	JD29908-6	3	NA	MS53009	V8260TCL20+,Acrolein ,ACRYL.TBA	5.1	5		9	OK	124TMB,HEX
1C	180235	JD29908-8	3	NA	MS53009	V8260TCL20+,Acrolein ,ACRYL.TBA	4.5	5		10	OK	124TMB,HEX
1C	180236	JD29908-10	3	NA	MS53009	V8260TCL20+,Acrolein ,ACRYL.TBA	4.5	5		11	OK	124TMB,HEX
1C	180237	JD29908-2MS	4	NA	MS53009	V8260TCL20+,Acrolein ,ACRYL.TBA	5.6	5		12	OK	124TMB,HEX, 2.5uL Std.A/B/K,EC,AA in sample
1C	180238	JD29908-4DUP	4	NA	MS53009	V8260TCL20+,Acrolein ,ACRYL.TBA	5.1	5		13	OK	124TMB,HEX
1C	180239	JD29908-12	3	NA	MS53009	V8260TCL20+,Acrolein ,ACRYL.TBA	5.0	5		14	OK	124TMB,HEX
1C	180240	JD29908-14	3	NA	MS53009	V8260TCL20+,Acrolein ,ACRYL.TBA	5.6	5		15	OK	124TMB,HEX
1C	180241	JD29908-16	3	NA	MS53009	V8260TCL20+,Acrolein ,ACRYL.TBA	5.7	5		16	OK	124TMB,HEX
1C	180242	JD29908-18	3	NA	MS53009	V8260TCL20+,Acrolein ,ACRYL.TBA	4.9	5		17	OK	124TMB,HEX
1C	180243	JD29908-20	3	NA	MS53009	V8260TCL20+,Acrolein ,ACRYL.TBA	5.3	5		18	OK	124TMB,HEX
1C	180244	JD29855-10	4	NA	MS52972	V8260SL	6.0	5		19	RR	RR LL, bad purged
1C	180245	JD29855-11	4	NA	MS52972	V8260SL	5.5	5		20	OK	
1C	180246	JD29923-1	5	NA	MS53008	V8260TCL20+	4.1	5		21	OK	
1C	180247	JD29923-2	5	NA	MS53008	V8260TCL20+	4.3	5		22	OK	
1C	180248	JD29923-3	5	NA	MS53008	V8260TCL20+	6.0	5		23	OK	
1C	180249	JD29923-4	5	NA	MS53008	V8260TCL20+	4.8	5		24	OK	
1C	180250	JD29923-5	5	NA	MS53008	V8260TCL20+	5.9	5		25	OK	
1C	180251	JD29923-6	5	NA	MS53008	V8260TCL20+	4.4	5		26	OK	10:02 PM

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Smpl Amt (g)	MeOH/ DI FV (ml)	MeOH Purge (uL)	ALS #	Status	Comments
1C	180252	IB		NA			5.0	5		27	OK	
1C	180253	IB		NA			5.0	5		28	OK	8/19/21
1C	180254	IB		NA			5.0	5		29	OK	
1C	180255	IB		NA			5.0	5		30	OK	

GCMS Volatile Run Log

Standard / Reagents	Lot #			
Standard	ABK: V021-2718-90.60	EC: V021-2718-123.8	AA: V021-2718-118.9	
Standard Concentration	100-10,000 PPM	100 PPM	100 PPM	
Expiration Date	8/23/2021	8/20/2021	9/10/2021	
Internal Surrogate	V021-2718-112			
Internal Surrogate Concentration	50/500 PPM			
Expiration Date	9/6/2021			
Initial Calibration Method	M1CS7827 // 7/15/2021			
Rough Reviewed by	Prashant B. Shukla			

Standard / Reagents			
GCMS1C	Instrument ID:	Sequence loaded by	Prashant B. Shukla
Analysis Date	8/19/2021	Data processed by	davem1/kristelv/janellec
Column	Rxi-624(60mx0.25mmx1.4um)	Batch ID	V1C7856
Method	V8260D	Matrix	SO
Init Calib Date	7/15/2021	Approved By:	MEI
Init Calib Quant Method	M1CS7827	Approved Date:	8/23/2021 11:10:01 AM
DI Purge Volume	5		

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Smpl Amt (g)	MeOH/ DI FV (ml)	MeOH Purge (uL)	ALS #	Status	Comments
1C	180256	BFB/CC7827-50		NA			5.0	5		1	OK/OK	25uL Std.A/B/K,EC,AA in 50ml DI H2O, # 24,27 high, 10:20 AM
1C	180257	BS		NA			5.0	5		2	OK	25uL Std.A/B/K,EC,AA in 50ml DI H2O
1C	180258	IB		NA			5.0	5		3	OK	
1C	180259	MB/JD18245H-19A		NA	MS52130	V8260SL	5.0	5		4	OK/OK	
1C	180260	JD29855-10	5	NA	MS52972	V8260SL	6.1	5		5	OK	
1C	180261	JD29923-7	5	NA	MS53008	V8260TCL20+	5.7	5		6	OK	

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Smpl Amt (g)	MeOH/ DI FV (ml)	MeOH Purge (uL)	ALS #	Status	Comments
1C	180262	JD29923-8	5	NA	MS53008	V8260TCL20+	5.8	5		7	OK	Hit of # 24, RR LL (3C)
1C	180263	JD30019-1	5	NA	MS53048	V8260TCL20+	6.0	5		8	OK	
1C	180264	JD30019-2	5	NA	MS53048	V8260TCL20+	4.4	5		9	OK	
1C	180265	JD30019-3	5	NA	MS53048	V8260TCL20+	4.8	5		10	OK	
1C	180266	JD30019-4	5	NA	MS53048	V8260TCL20+	6.0	5		11	OK	
1C	180267	JD30019-1MS	6	NA	MS53048	V8260TCL20+	5.5	5		12	OK	2.5uL Std.A/B/K,EC,AA in sample
1C	180268	JD30019-2DUP	6	NA	MS53048	V8260TCL20+	4.8	5		13	OK	
1C	180269	JD30019-5	5	NA	MS53048	V8260TCL20+	5.4	5		14	OK	
1C	180270	JD30019-6	5	NA	MS53048	V8260TCL20+	6.0	5		15	OK	
1C	180271	JD29971-3	4	NA	MS53025	V8260TCL20+	5.3	5		16	OK	
1C	180272	JD29985-12	4	NA	MS53038	V8260TCL20+	4.9	5		17	OK	
1C	180273	JD29985-14	4	NA	MS53038	V8260TCL20+	5.2	5		18	OK	
1C	180274	JD29985-16	4	NA	MS53038	V8260TCL20+	5.7	5		19	OK	
1C	180275	JD29985-18	4	NA	MS53038	V8260TCL20+	4.5	5		20	OK	
1C	180276	JD29985-20	4	NA	MS53038	V8260TCL20+	5.7	5		21	OK	
1C	180277	JD29985-22	4	NA	MS53038	V8260TCL20+	4.0	5		22	OK	
1C	180278	JD29985-24	4	NA	MS53038	V8260TCL20+	5.0	5		23	OK	
1C	180279	JD29989-1	5	NA	MS53037	V8260TCL20+,TBA	5.7	5		24	OK	
1C	180280	JD29989-3	5	NA	MS53037	V8260TCL20+,TBA	5.3	5		25	OK	
1C	180281	JD29989-4	5	NA	MS53037	V8260TCL20+,TBA	4.8	5		26	RR	CC hit, RR SME. (10:07PM)

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Smpl Amt (g)	MeOH/ DI FV (ml)	MeOH Purge (uL)	ALS #	Status	Comments
1C	180282	IB		NA			5.0	5		27	OK	
1C	180283	IB		NA			5.0	5		28	OK	
1C	180284	IB		NA			5.0	5		29	OK	

GCMS Volatile Run Log

Standard / Reagents	Lot #			
Standard	ABK: V021-2718-02.60	EC: V021-2718-35.11	AA: V021-2718-23.7	Ext.Chlorodifluoromethane: V021-2718-12
Standard Concentration	100-10,000 PPM	100 PPM	100 PPM	100 PPM
Expiration Date	6/21/2021	6/22/2021	7/8/2021	6/27/2021
Ext.Standard	Ext.ABK: V021-2718-07	Ext.EC: V021-2718-36.3	Ext.Acrolein: V021-2718-38.3	Ext.PA: V-2718-39.2
Standard Concentration	100-10,000 PPM	100 PPM	100 PPM	100-1,000 PPM
Expiration Date	6/26/2021	6/22/2021	7/16/2021	7/16/2021
Internal Surrogate	V021-2718-26			
Internal Surrogate Concentration	50/500ppm			
Expiration Date	7/9/2021			
Init Calib Quant Method // Date	M3C7415 // 6/16/2021			
Rough Reviewed by	Prashant B. Shukla			

Standard / Reagents			
GCMS3C	Instrument ID:	Sequence loaded by	Prashant B. Shukla
Analysis Date	6/16/2021	Data processed by	Bridget Kelly
Column	Rxi-624(20mx0.18mmx1.0um)	Batch ID	V3C7415
Method	V8260D	Matrix	SO
Init Calib Date	6/16/2021	Approved By:	KANYAV
Init Calib Quant Method	M3C7415	Approved Date:	7/1/2021 3:28:03 PM
DI Purge Volume	5		

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Smpl Amt (g)	MeOH/ DI FV (ml)	MeOH Purge (uL)	ALS #	Status	Comments
3C	167223	TUNE		NA		TUNE	5.0	5		1	OK	4:55 PM
3C	167224	IC7415-0.2		NA		ICC 8260 Soil	5.0	5		2	OK	1uL Std.A/B/K,EC,AA in 500ml DI H2O
3C	167225	IC7415-0.5		NA		ICC 8260 Soil	5.0	5		3	OK	1uL Std.A/B/K,EC,AA in 200ml DI H2O
3C	167226	IC7415-1		NA		ICC 8260 Soil	5.0	5		4	OK	1uL Std.A/B/K,EC,AA in 100ml DI H2O
3C	167227	IC7415-2		NA		ICC 8260 Soil	5.0	5		5	OK	1uL Std.A/B/K,EC,AA in 50ml DI H2O
3C	167228	IC7415-4		NA		ICC 8260 Soil	5.0	5		6	OK	2uL Std.A/B/K,EC,AA in 50ml DI H2O

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Smpl Amt (g)	MeOH/ DI FV (ml)	MeOH Purge (uL)	ALS #	Status	Comments
3C	167229	IC7415-8		NA		ICC 8260 Soil	5.0	5		7	OK	4uL Std.A/B/K,EC,AA in 50ml DI H2O
3C	167230	IC7415-20		NA		ICC 8260 Soil	5.0	5		8	OK	10uL Std.A/B/K,EC,AA in 50ml DI H2O
3C	167231	ICC7415-50		NA		ICC 8260 Soil	5.0	5		9	OK	25uL Std.A/B/K,EC,AA in 50ml DI H2O
3C	167232	IC7415-100		NA		ICC 8260 Soil	5.0	5		10	OK	50uL Std.A/B/K,EC,AA in 50ml DI H2O
3C	167233	IC7415-200		NA		ICC 8260 Soil	5.0	5		11	OK	100uL Std.A/B/K,EC,AA in 50ml DI H2O
3C	167234	IB		NA			5.0	5		12	OK	
3C	167235	IB		NA			5.0	5		13	OK	
3C	167236	ICV7415-50		NA		ICV 8260 Soil	5.0	5		14	OK	25uL Ext.A/B/K,EC,Acrolein in 50ml DI H2O
3C	167237	ICV7415-50		NA		ICV 8260 Soil	5.0	5		15	OK	25uL Ext.PA,Chlorodifluoromethane in 50ml DI H2O
3C	167238	IB		NA			5.0	5		16	OK	

GCMS Volatile Run Log

Standard / Reagents	Lot #			
Standard	ABK: V021-2718-90.60	EC: V021-2718-123.8	AA: V021-2718-118.9	
Standard Concentration	100-10,000 PPM	100 PPM	100 PPM	
Expiration Date	8/23/2021	8/20/2021	9/10/2021	
Internal Surrogate	V021-2718-112			
Internal Surrogate Concentration	50/500ppm			
Expiration Date	9/6/2021			
Initial Calibration Method	M3C7415 // 6/16/2021			
Rough Reviewed by	Prashant B. Shukla			

Standard / Reagents			
GCMS3C	Instrument ID:	Sequence loaded by	Prashant B. Shukla
Analysis Date	8/19/2021	Data processed by	nizele/janellec
Column	Rxi-624(20mx0.18mmx1.0um)	Batch ID	V3C7462
Method	V8260D	Matrix	SO
Init Calib Date	6/16/2021	Approved By:	MEI
Init Calib Quant Method	M3C7415	Approved Date:	8/23/2021 11:11:51 AM
DI Purge Volume	5		

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Smpl Amt (g)	MeOH/ DI FV (ml)	MeOH Purge (uL)	ALS #	Status	Comments
3C	168618	CC7415-50		NA			5.0	5		1	NG	25uL Std.A/B/K,EC,AA in 50ml DI H2O
3C	168619	CC7415-4		NA			5.0	5		2	not used	2uL Std.A/B/K,EC,AA in 50ml DI H2O, for # 6 & 10
3C	168620	BFB/CC7415-50		NA			5.0	5		3	OK/OK	25uL Std.A/B/K,EC,AA in 50ml DI H2O, # 6,10 low, Ave. of 8.359 to 8.380, 11:03 AM
3C	168621	CC7415-4		NA			5.0	5		4	OK	2uL Std.A/B/K,EC,AA in 50ml DI H2O, for # 6 & 10
3C	168622	BS		NA			5.0	5		5	OK	25uL Std.A/B/K,EC,AA in 50ml DI H2O
3C	168623	IB		NA			5.0	5		6	OK	

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Smpl Amt (g)	MeOH/ DI FV (ml)	MeOH Purge (uL)	ALS #	Status	Comments
3C	168624	MB		NA			5.0	5		7	OK	
3C	168625	JD30038-1	6	NA	MS53053	V8260TCL20+	5.9	5		8	OK	
3C	168626	JD30038-2	6	NA	MS53053	V8260TCL20+	5.6	5		9	OK	
3C	168627	JD30038-3	6	NA	MS53053	V8260TCL20+	5.2	5		10	OK	
3C	168628	JD30038-4	6	NA	MS53053	V8260TCL20+	5.7	5		11	OK	
3C	168629	JD30038-5	6	NA	MS53053	V8260TCL20+	3.6	5		12	OK	
3C	168630	JD30038-1MS	7	NA	MS53053	V8260TCL20+	5.5	5		13	OK	2.5uL Std.A/B/K,EC,AA in sample
3C	168631	IB		NA			5.0	5		14	OK	
3C	168632	JD30038-2DUP	7	NA	MS53053	V8260TCL20+	5.1	5		15	OK	
3C	168633	JD29923-8	6	NA	MS53008	V8260TCL20+	4.9	5		16	OK	
3C	168634	JD29888-4	4	NA	MS52986	V8260PAUGTMB	5.1	5		17	OK	
3C	168635	JD30038-6	6	NA	MS53053	V8260TCL20+	6.7	5		18	OK	
3C	168636	JD30038-7	6	NA	MS53053	V8260TCL20+	4.2	5		19	OK	
3C	168637	JD30038-8	6	NA	MS53053	V8260TCL20+	6.4	5		20	OK	
3C	168638	JD30038-9	6	NA	MS53053	V8260TCL20+	6.3	5		21	OK	
3C	168639	JD30039-1	6	NA	MS53053	V8260TCL20+	5.6	5		22	OK	
3C	168640	JD29913-1	4	NA	MS53010	V8260SL	5.1	5		23	OK	
3C	168641	JD29913-2	4	NA	MS53010	V8260SL	3.6	5		24	OK	
3C	168642	JD29655-7T	5	NA	MS53024	V8260TCL20+	3.0	5		25	OK	
3C	168643	JD29655-8T	5	NA	MS53024	V8260TCL20+	3.0	5		26	OK	

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Smpl Amt (g)	MeOH/ DI FV (ml)	MeOH Purge (uL)	ALS #	Status	Comments
3C	168644	JD29655-9T	5	NA	MS53024	V8260TCL20+	4.6	5		27	OK	
3C	168645	JD29655-18T	5	NA	MS53024	V8260TCL20+	3.4	5		28	OK	
3C	168646	JD29939-1	8	NA	MS53034	V8260TCL20+	6.2	5		29	OK	
3C	168647	JD29940-1	7	NA	MS53034	V8260TCL20+	6.2	5		30	OK	10:46PM
3C	168648	IB		NA			5.0	5		31	OK	

GCMS Volatile Run Log

Standard / Reagents	Lot #				Column	Rxi-624(60mx0.25mmx1.4um)
Standards	ABK: V021-2715-112.64	EC: V020-2715-151.6	AA: V021-2715-129.16	Chlorodifluoromethane: V021-2715-109	Method	v8260d
Standard Concentrations	100-10,000ppm	100ppm	100ppm	100ppm	Init Calib Date	3/10/2021
Expiration Date	5/24/2021	5/25/2021	6/5/2021	5/20/2021		
Internal Surrogate	V021-2715-136	EXT ABK: V021-2715-121.6	EXTB EC: V021-2715-148.1	EXT ACROLEIN: V021-2715-140.2		
Internal Surrogate Concentration	50/500ppm	100-10,000ppm	100ppm	100ppm	Analysis Date	5/19/2021
Expiration Date	6/12/2021	5/25/2021	5/26/2021	6/14/2021	Sequence loaded by	Robert Szot
				EXT PA: V021-2715-131	Data processed by	Bridget Kelly
				100ppm	Batch ID	V4D4892
				6/6/2021	Matrix	AQ
					Approved By:	MEI
pH paper Lot# (wide range):	221419	Exp. 8/1/2022	Initial Calibration Method	M4D4803	Approved Date:	6/1/2021 10:40:19 AM

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	IS/Surr	pH	ALS #	Status	Comments
4D	109986	BFB		NA			5			1	ok	
4D	109987	IC4892-0.2		NA		8260 AQ Initial Calibration	5			2	ok	2ul abk,ec,aa/1000ml
4D	109988	IC4892-0.5		NA		8260 AQ Initial Calibration	5			3	ok	5ul abk,ec,aa/1000ml
4D	109989	IC4892-1		NA		8260 AQ Initial Calibration	5			4	ok	1ul abk,ec,aa/100ml
4D	109990	IC4892-2		NA		8260 AQ Initial Calibration	5			5	ok	2ul abk,ec,aa/100ml
4D	109991	IC4892-4		NA		8260 AQ Initial Calibration	5			6	ok	4ul abk,ec,aa/100ml
4D	109992	IC4892-8		NA		8260 AQ Initial Calibration	5			7	ok	8ul abk,ec,aa/100ml
4D	109993	IC4892-20		NA		8260 AQ Initial Calibration	5			8	ok	20ul abk,ec,aa/100ml
4D	109994	ICC4892-50		NA		8260 AQ Initial Calibration	5			9	ok	50ul abk,ec,aa/100ml
4D	109995	IC4892-100		NA		8260 AQ Initial Calibration	5			10	ok	100ul abk,ec,aa/100ml
4D	109996	IC4892-200		NA		8260 AQ Initial Calibration	5			11	ok	200ul abk,ec,aa/100ml

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	IS/Surr	pH	ALS #	Status	Comments
4D	109997	IB		NA			5			12	ok	
4D	109998	IB		NA			5			13	ok	
4D	109999	ICV4892-50		NA		8260 AQ Initial Calibration	5			14	ok	50ul ext abk,ec,acrolein/100ml
4D	110000	ICV4892-50		NA		8260 AQ Initial Calibration	5			15	ok	50ul EXT chlorodifluoromethane,ext pa/100ml
4D	110001	IB		NA			5			16	ok	

GCMS Volatile Run Log

Standard / Reagents	Lot #					
Standard	ABK: V021-2718-90.10	EC: V021-2718-123.1	AA: V021-2718-118		Column	Rxi-624(60mx0.25mmx1.4um)
Standard Concentrations	100-10,000ppm	100ppm	100ppm		Method	v8260D
Expiration Date	8/23/2021	8/20/2021	9/10/2021		Init Calib Date	5/19/2021
Internal Surrogate	V021-2718-76					
Internal Surrogate Concentration	50/500ppm				Analysis Date	8/19/2021
Expiration Date	9/6/2021				Sequence loaded by	Jonathan Santos
					Data processed by	davem1/kenrickb
					Batch ID	V4D4985
					Matrix	AQ
					Approved By:	MOHUI
pH Paper wide range lot# 223120	Exp. 08/15/2023		Initial Calibration Method	M4D4892	Approved Date:	8/20/2021 3:31:03 PM

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	IS/Surr	pH	ALS #	Status	Comments
4d	111909	IB		NA			5			1	ok	
4d	111910	BFB/CC4892-20		NA			5			2	not used	20 uL ABK AA AC / 100 mL
4d	111911	IB		NA			5			3	ok	
4d	111912	BFB/CC4892-20		NA			5			4	ok/ok	20 uL ABK AA AC / 100 mL (10:18 AM)
4d	111913	CC4892-1		NA			5			5	ok	1 uL ABK AA AC / 100 mL, For #11, 47
4d	111914	BS		NA			5			6	ok	50 uL ABK AA AC / 100 mL
4d	111915	IB		NA			5			7	ok	
4d	111916	MB		NA			5			8	ok	
4d	111917	JD29924-1	5	NA	MS53003	V8260TCL20	5		1	9	ok	
4d	111918	JD29924-2	2	NA	MS53003	V8260TCL20	5		1	10	ok	
4d	111919	JD29924-3	5	NA	MS53003	V8260TCL20	5		1	11	ok	

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	IS/Surr	pH	ALS #	Status	Comments
4d	111920	JD29818-21	3	NA	MS52961	V8260TCL20+	5		1	12	ok	
4d	111921	JD29818-24	2	NA	MS52961	V8260TCL20+	5		1	13	ok	
4d	111922	JD29584-2	4	100x	MS52834	V8260NJPTCL11+	5		1	14	ok	
4d	111923	JD29584-14	3	NA	MS52834	V8260NJPTCL11+	5		1	15	ok/dl	+4D111925
4d	111924	JD29818-21MS	2	NA	MS52961	V8260TCL20+	5		1	16	OK	20 uL ABK AA AC / 40 mL
4d	111925	JD29584-14	3	10x	MS52834	V8260NJPTCL11+	5/50		1	17	OK	
4d	111926	JD29818-24DUP	3	NA	MS52961	V8260TCL20+	5		1	18	OK	
4d	111927	JD29923-9	2	NA	MS53003	V8260TCL20+	5		1	19	OK	
4d	111928	JD30033-3	1	NA	MS53054	V8260NJPTCL11+	5		1	20	OK	
4d	111929	JD29818-27	2	NA	MS52961	V8260TCL20+	5		1	21	OK	
4d	111930	JD29818-28	1	NA	MS52961	V8260TCL20+	5		1	22	OK	
4d	111931	JD29818-29	2	NA	MS52961	V8260TCL20+	5		1	23	OK	
4d	111932	JD30033-1	3	NA	MS53054	V8260NJPTCL11+	5		1	24	OK	
4d	111933	JD29818-26	1	NA	MS52961	V8260TCL20+	5		1	25	rr	surr out
4d	111934	JD29818-25	2	NA	MS52961	V8260TCL20+	5		1	26	OK	
4d	111935	JD29866-7	3	NA	MS52983	V8260PCE, DCE, TCE, VC	5		1	27	OK	
4d	111936	JD29866-8	2	NA	MS52983	V8260PCE, DCE, TCE, VC	5		1	28	OK	(10:06 PM)

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34922-MB1	F201231.D	1	08/18/21	KLS	08/18/21	OP34922	EF8807

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD29923-1, JD29923-2, JD29923-3, JD29923-4, JD29923-5, JD29923-6, JD29923-7, JD29923-8

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	67	16	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	20	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	28	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	59	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	36	ug/kg	
95-48-7	2-Methylphenol	ND	67	21	ug/kg	
	3&4-Methylphenol	ND	67	27	ug/kg	
88-75-5	2-Nitrophenol	ND	170	22	ug/kg	
100-02-7	4-Nitrophenol	ND	330	89	ug/kg	
87-86-5	Pentachlorophenol	ND	130	31	ug/kg	
108-95-2	Phenol	ND	67	17	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	25	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
83-32-9	Acenaphthene	ND	33	11	ug/kg	
208-96-8	Acenaphthylene	ND	33	17	ug/kg	
98-86-2	Acetophenone	ND	170	7.2	ug/kg	
120-12-7	Anthracene	ND	33	20	ug/kg	
1912-24-9	Atrazine	ND	67	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	9.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	8.1	ug/kg	
92-52-4	1,1'-Biphenyl	ND	67	4.6	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	7.9	ug/kg	
106-47-8	4-Chloroaniline	ND	170	12	ug/kg	
86-74-8	Carbazole	ND	67	4.8	ug/kg	
105-60-2	Caprolactam	ND	67	13	ug/kg	
218-01-9	Chrysene	ND	33	10	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	7.1	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	14	ug/kg	

Method Blank Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34922-MB1	F201231.D	1	08/18/21	KLS	08/18/21	OP34922	EF8807

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD29923-1, JD29923-2, JD29923-3, JD29923-4, JD29923-5, JD29923-6, JD29923-7, JD29923-8

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	67	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	33	10	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	33	17	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	67	28	ug/kg	
123-91-1	1,4-Dioxane	ND	33	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	15	ug/kg	
132-64-9	Dibenzofuran	ND	67	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	5.4	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	67	8.3	ug/kg	
84-66-2	Diethyl phthalate	ND	67	7.1	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	5.9	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	67	7.8	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	8.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	13	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	13	ug/kg	
67-72-1	Hexachloroethane	ND	170	16	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	16	ug/kg	
78-59-1	Isophorone	ND	67	7.1	ug/kg	
91-57-6	2-Methylnaphthalene	ND	33	7.5	ug/kg	
88-74-4	2-Nitroaniline	ND	170	7.9	ug/kg	
99-09-2	3-Nitroaniline	ND	170	8.3	ug/kg	
100-01-6	4-Nitroaniline	ND	170	8.6	ug/kg	
91-20-3	Naphthalene	ND	33	9.4	ug/kg	
98-95-3	Nitrobenzene	ND	67	13	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	9.6	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	12	ug/kg	
85-01-8	Phenanthrene	ND	33	11	ug/kg	
129-00-0	Pyrene	ND	33	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	8.5	ug/kg	

Method Blank Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34922-MB1	F201231.D	1	08/18/21	KLS	08/18/21	OP34922	EF8807

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD29923-1, JD29923-2, JD29923-3, JD29923-4, JD29923-5, JD29923-6, JD29923-7, JD29923-8

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	74%	7-101%
4165-62-2	Phenol-d5	69%	12-101%
118-79-6	2,4,6-Tribromophenol	80%	10-127%
4165-60-0	Nitrobenzene-d5	84%	15-114%
321-60-8	2-Fluorobiphenyl	79%	22-104%
1718-51-0	Terphenyl-d14	95%	23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	System artifact	2.19	140	ug/kg	J
	System artifact/aldol-condensation	3.40	170	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

Blank Spike Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34922-BS1	F201232A.D	1	08/18/21	KLS	08/18/21	OP34922	EF8807

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD29923-1, JD29923-2, JD29923-3, JD29923-4, JD29923-5, JD29923-6, JD29923-7, JD29923-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1670	1090	65	26-121
59-50-7	4-Chloro-3-methyl phenol	1670	1180	71	26-138
120-83-2	2,4-Dichlorophenol	1670	1160	70	26-130
105-67-9	2,4-Dimethylphenol	1670	1140	68	28-144
51-28-5	2,4-Dinitrophenol	3330	1880	56	31-146
534-52-1	4,6-Dinitro-o-cresol	1670	1140	68	22-150
95-48-7	2-Methylphenol	1670	1120	67	23-128
	3&4-Methylphenol	3330	2120	64	24-133
88-75-5	2-Nitrophenol	1670	1200	72	29-137
100-02-7	4-Nitrophenol	1670	1010	61	21-144
87-86-5	Pentachlorophenol	3330	2400	72	24-152
108-95-2	Phenol	1670	1160	70	40-101
58-90-2	2,3,4,6-Tetrachlorophenol	1670	1200	72	30-136
95-95-4	2,4,5-Trichlorophenol	1670	1200	72	26-137
88-06-2	2,4,6-Trichlorophenol	1670	1140	68	28-137
83-32-9	Acenaphthene	1670	1130	68	24-129
208-96-8	Acenaphthylene	1670	1090	65	25-130
98-86-2	Acetophenone	1670	1120	67	44-100
120-12-7	Anthracene	1670	1170	70	28-131
1912-24-9	Atrazine	1670	1390	83	17-165
56-55-3	Benzo(a)anthracene	1670	1210	73	30-130
50-32-8	Benzo(a)pyrene	1670	1240	74	27-139
205-99-2	Benzo(b)fluoranthene	1670	1240	74	32-133
191-24-2	Benzo(g,h,i)perylene	1670	1140	68	24-141
207-08-9	Benzo(k)fluoranthene	1670	1220	73	26-135
101-55-3	4-Bromophenyl phenyl ether	1670	1250	75	25-137
85-68-7	Butyl benzyl phthalate	1670	1270	76	28-142
92-52-4	1,1'-Biphenyl	1670	1130	68	22-129
100-52-7	Benzaldehyde	1670	1150	69	4-116
91-58-7	2-Chloronaphthalene	1670	1150	69	22-126
106-47-8	4-Chloroaniline	1670	877	53	8-85
86-74-8	Carbazole	1670	1150	69	29-135
105-60-2	Caprolactam	1670	1860	112	21-138
218-01-9	Chrysene	1670	1180	71	29-127
111-91-1	bis(2-Chloroethoxy)methane	1670	1170	70	23-128
111-44-4	bis(2-Chloroethyl)ether	1670	1180	71	28-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34922-BS1	F201232A.D	1	08/18/21	KLS	08/18/21	OP34922	EF8807

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD29923-1, JD29923-2, JD29923-3, JD29923-4, JD29923-5, JD29923-6, JD29923-7, JD29923-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-60-1	2,2'-Oxybis(1-chloropropane)	1670	1230	74	25-147
7005-72-3	4-Chlorophenyl phenyl ether	1670	1200	72	24-133
121-14-2	2,4-Dinitrotoluene	1670	1260	76	31-135
606-20-2	2,6-Dinitrotoluene	1670	1320	79	31-138
91-94-1	3,3'-Dichlorobenzidine	1670	889	54	16-110
123-91-1	1,4-Dioxane	1670	689	41	6-81
53-70-3	Dibenzo(a,h)anthracene	1670	1170	70	24-135
132-64-9	Dibenzofuran	1670	1130	68	26-133
84-74-2	Di-n-butyl phthalate	1670	1250	75	27-141
117-84-0	Di-n-octyl phthalate	1670	1160	70	28-143
84-66-2	Diethyl phthalate	1670	1200	72	26-135
131-11-3	Dimethyl phthalate	1670	1180	71	26-130
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1180	71	44-122
206-44-0	Fluoranthene	1670	1190	71	31-134
86-73-7	Fluorene	1670	1150	69	26-136
118-74-1	Hexachlorobenzene	1670	1250	75	22-136
87-68-3	Hexachlorobutadiene	1670	1240	74	18-137
77-47-4	Hexachlorocyclopentadiene	3330	2150	65	22-131
67-72-1	Hexachloroethane	1670	1160	70	19-121
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1130	68	26-137
78-59-1	Isophorone	1670	1250	75	29-128
91-57-6	2-Methylnaphthalene	1670	1160	70	28-132
88-74-4	2-Nitroaniline	1670	1260	76	16-154
99-09-2	3-Nitroaniline	1670	1050	63	20-105
100-01-6	4-Nitroaniline	1670	1090	65	30-134
91-20-3	Naphthalene	1670	1130	68	26-127
98-95-3	Nitrobenzene	1670	1240	74	21-130
621-64-7	N-Nitroso-di-n-propylamine	1670	1240	74	27-124
86-30-6	N-Nitrosodiphenylamine	1670	1160	70	27-133
85-01-8	Phenanthrene	1670	1130	68	26-131
129-00-0	Pyrene	1670	1200	72	30-131
95-94-3	1,2,4,5-Tetrachlorobenzene	1670	1160	70	8-129

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34922-BS1	F201232A.D	1	08/18/21	KLS	08/18/21	OP34922	EF8807

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD29923-1, JD29923-2, JD29923-3, JD29923-4, JD29923-5, JD29923-6, JD29923-7, JD29923-8

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	67%	7-101%
4165-62-2	Phenol-d5	64%	12-101%
118-79-6	2,4,6-Tribromophenol	80%	10-127%
4165-60-0	Nitrobenzene-d5	77%	15-114%
321-60-8	2-Fluorobiphenyl	72%	22-104%
1718-51-0	Terphenyl-d14	81%	23-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34922-MS	F201245.D	1	08/19/21	KLS	08/18/21	OP34922	EF8807
OP34922-MSD	F201246.D	1	08/19/21	KLS	08/18/21	OP34922	EF8807
JD29923-1	F201236.D	1	08/18/21	KLS	08/18/21	OP34922	EF8807

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD29923-1, JD29923-2, JD29923-3, JD29923-4, JD29923-5, JD29923-6, JD29923-7, JD29923-8

CAS No.	Compound	JD29923-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		5090	3500	69	4770	2630	55	28	10-129/65
59-50-7	4-Chloro-3-methyl phenol	ND		5090	3690	73	4770	2790	58	28	10-147/63
120-83-2	2,4-Dichlorophenol	ND		5090	3570	70	4770	2710	57	27	10-140/64
105-67-9	2,4-Dimethylphenol	ND		5090	3590	71	4770	2640	55	30	10-151/64
51-28-5	2,4-Dinitrophenol	ND		10200	4210	41	9540	2840	30	39	10-127/71
534-52-1	4,6-Dinitro-o-cresol	ND		5090	3260	64	4770	2340	49	33	10-148/77
95-48-7	2-Methylphenol	ND		5090	3860	76	4770	2900	61	28	10-136/62
	3&4-Methylphenol	ND		10200	7020	69	9540	5210	55	30	10-137/63
88-75-5	2-Nitrophenol	ND		5090	3850	76	4770	2900	61	28	10-147/69
100-02-7	4-Nitrophenol	ND		5090	3480	68	4770	2180	46	46	10-157/64
87-86-5	Pentachlorophenol	ND		10200	5910	58	9540	4340	46	31	10-164/65
108-95-2	Phenol	ND		5090	3630	71	4770	2700	57	29	3-110/61
58-90-2	2,3,4,6-Tetrachlorophenol	ND		5090	3380	66	4770	2570	54	27	10-146/67
95-95-4	2,4,5-Trichlorophenol	ND		5090	3900	77	4770	2930	61	28	10-144/66
88-06-2	2,4,6-Trichlorophenol	ND		5090	3320	65	4770	2440	51	31	10-148/67
83-32-9	Acenaphthene	ND		5090	3540	70	4770	2640	55	29	10-145/63
208-96-8	Acenaphthylene	ND		5090	3510	69	4770	2620	55	29	10-144/59
98-86-2	Acetophenone	ND		5090	3570	70	4770	2670	56	29	5-120/56
120-12-7	Anthracene	ND		5090	3770	74	4770	2780	58	30	10-153/66
1912-24-9	Atrazine	ND		5090	4430	87	4770	3200	67	32	10-163/50
56-55-3	Benzo(a)anthracene	ND		5090	3840	75	4770	2820	59	31	10-157/71
50-32-8	Benzo(a)pyrene	ND		5090	4030	79	4770	2970	62	30	10-164/67
205-99-2	Benzo(b)fluoranthene	ND		5090	3950	78	4770	2850	60	32	10-154/69
191-24-2	Benzo(g,h,i)perylene	ND		5090	3880	76	4770	2940	62	28	10-156/64
207-08-9	Benzo(k)fluoranthene	ND		5090	3840	75	4770	2870	60	29	10-156/62
101-55-3	4-Bromophenyl phenyl ether	ND		5090	4010	79	4770	2970	62	30	10-145/57
85-68-7	Butyl benzyl phthalate	ND		5090	4180	82	4770	3050	64	31	10-151/57
92-52-4	1,1'-Biphenyl	ND		5090	3650	72	4770	2660	56	31	10-140/53
100-52-7	Benzaldehyde	ND		5090	3480	68	4770	2640	55	27	10-135/56
91-58-7	2-Chloronaphthalene	ND		5090	3690	73	4770	2720	57	30	10-134/58
106-47-8	4-Chloroaniline	ND		5090	2760	54	4770	2340	49	16	10-97/62
86-74-8	Carbazole	ND		5090	3660	72	4770	2690	56	31	10-145/53
105-60-2	Caprolactam	ND		5090	4640	91	4770	3190	67	37	10-156/53
218-01-9	Chrysene	ND		5090	3780	74	4770	2740	57	32	10-148/70
111-91-1	bis(2-Chloroethoxy)methane	ND		5090	3680	72	4770	2820	59	26	10-130/57
111-44-4	bis(2-Chloroethyl)ether	ND		5090	3700	73	4770	2780	58	28	10-125/60

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34922-MS	F201245.D	1	08/19/21	KLS	08/18/21	OP34922	EF8807
OP34922-MSD	F201246.D	1	08/19/21	KLS	08/18/21	OP34922	EF8807
JD29923-1	F201236.D	1	08/18/21	KLS	08/18/21	OP34922	EF8807

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD29923-1, JD29923-2, JD29923-3, JD29923-4, JD29923-5, JD29923-6, JD29923-7, JD29923-8

CAS No.	Compound	JD29923-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-60-1	2,2'-Oxybis(1-chloropropane)	ND		5090	3880	76	4770	2920	61	28	10-151/58
7005-72-3	4-Chlorophenyl phenyl ether	ND		5090	3790	74	4770	2730	57	33	10-141/56
121-14-2	2,4-Dinitrotoluene	ND		5090	4010	79	4770	2910	61	32	10-153/57
606-20-2	2,6-Dinitrotoluene	ND		5090	4260	84	4770	3170	66	29	10-147/59
91-94-1	3,3'-Dichlorobenzidine	ND		5090	3080	60	4770	2750	58	11	10-133/74
123-91-1	1,4-Dioxane	ND		5090	2180	43	4770	1620	34	29	10-81/57
53-70-3	Dibenzo(a,h)anthracene	ND		5090	3980	78	4770	2820	59	34	10-146/63
132-64-9	Dibenzofuran	ND		5090	3570	70	4770	2640	55	30	10-148/50
84-74-2	Di-n-butyl phthalate	ND		5090	3930	77	4770	2930	61	29	10-152/59
117-84-0	Di-n-octyl phthalate	ND		5090	3870	76	4770	2840	60	31	10-155/57
84-66-2	Diethyl phthalate	ND		5090	3790	74	4770	2780	58	31	10-145/56
131-11-3	Dimethyl phthalate	ND		5090	3800	75	4770	2790	58	31	10-138/56
117-81-7	bis(2-Ethylhexyl)phthalate	ND		5090	3870	76	4770	2890	61	29	6-140/61
206-44-0	Fluoranthene	ND		5090	3670	72	4770	2710	57	30	10-171/80
86-73-7	Fluorene	ND		5090	3650	72	4770	2640	55	32	10-148/65
118-74-1	Hexachlorobenzene	ND		5090	3860	76	4770	2840	60	30	10-143/57
87-68-3	Hexachlorobutadiene	ND		5090	3950	78	4770	3000	63	27	10-141/60
77-47-4	Hexachlorocyclopentadiene	ND		10200	6730	66	9540	4980	52	30	10-135/81
67-72-1	Hexachloroethane	ND		5090	3710	73	4770	2830	59	27	10-124/62
193-39-5	Indeno(1,2,3-cd)pyrene	ND		5090	3840	75	4770	2900	61	28	10-152/65
78-59-1	Isophorone	ND		5090	3950	78	4770	2960	62	29	10-138/59
91-57-6	2-Methylnaphthalene	ND		5090	3620	71	4770	2740	57	28	10-150/51
88-74-4	2-Nitroaniline	ND		5090	4250	84	4770	3760	79	12	10-161/50
99-09-2	3-Nitroaniline	ND		5090	3430	67	4770	2950	62	15	10-126/54
100-01-6	4-Nitroaniline	ND		5090	3710	73	4770	3110	65	18	10-143/58
91-20-3	Naphthalene	ND		5090	3630	71	4770	2730	57	28	10-147/64
98-95-3	Nitrobenzene	ND		5090	4070	80	4770	3230	68	23	10-143/58
621-64-7	N-Nitroso-di-n-propylamine	ND		5090	4090	80	4770	3770	79	8	10-133/59
86-30-6	N-Nitrosodiphenylamine	ND		5090	3940	77	4770	3540	74	11	10-150/56
85-01-8	Phenanthrene	ND		5090	3670	72	4770	2630	55	33	10-162/81
129-00-0	Pyrene	ND		5090	3890	76	4770	2880	60	30	10-166/77
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		5090	3660	72	4770	2750	58	28	10-130/56

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34922-MS	F201245.D	1	08/19/21	KLS	08/18/21	OP34922	EF8807
OP34922-MSD	F201246.D	1	08/19/21	KLS	08/18/21	OP34922	EF8807
JD29923-1	F201236.D	1	08/18/21	KLS	08/18/21	OP34922	EF8807

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD29923-1, JD29923-2, JD29923-3, JD29923-4, JD29923-5, JD29923-6, JD29923-7, JD29923-8

CAS No.	Surrogate Recoveries	MS	MSD	JD29923-1	Limits
367-12-4	2-Fluorophenol	76%	73%	58%	7-101%
4165-62-2	Phenol-d5	70%	69%	55%	12-101%
118-79-6	2,4,6-Tribromophenol	78%	76%	63%	10-127%
4165-60-0	Nitrobenzene-d5	86%	84%	68%	15-114%
321-60-8	2-Fluorobiphenyl	80%	77%	63%	22-104%
1718-51-0	Terphenyl-d14	90%	87%	77%	23-121%

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample: EF8747-DFTPP
Lab File ID: F200128.D
Instrument ID: GCMSF
Injection Date: 06/26/21
Injection Time: 02:25

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	100231	36.7		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	134557	49.3		Pass
70	Less than 2.0% of mass 69	606	0.22	(0.45) [a]	Pass
127	40.0 - 60.0% of mass 198	138853	50.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	273194	100.0		Pass
199	5.0 - 9.0% of mass 198	20573	7.53		Pass
275	10.0 - 30.0% of mass 198	74501	27.3		Pass
365	1.0 - 100.0% of mass 198	9164	3.35		Pass
441	Present, but less than mass 443	25371	9.29	(85.3) [b]	Pass
442	40.0 - 100.0% of mass 198	155261	56.8		Pass
443	17.0 - 23.0% of mass 442	29736	10.9	(19.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF8747-IC8747	F200129.D	06/26/21	02:42	00:17	Initial cal 1
EF8747-IC8747	F200130.D	06/26/21	03:08	00:43	Initial cal 2
EF8747-IC8747	F200131.D	06/26/21	03:33	01:08	Initial cal 5
EF8747-IC8747	F200132.D	06/26/21	03:59	01:34	Initial cal 10
EF8747-IC8747	F200133.D	06/26/21	04:25	02:00	Initial cal 25
EF8747-ICC8747	F200134.D	06/26/21	04:51	02:26	Initial cal 50
EF8747-IC8747	F200135.D	06/26/21	05:17	02:52	Initial cal 80
EF8747-IC8747	F200136.D	06/26/21	05:43	03:18	Initial cal 100
EF8747-ICV8747	F200137.D	06/26/21	06:09	03:44	Initial cal verification 50
EF8747-ICV8747	F200138.D	06/26/21	06:35	04:10	Initial cal verification 50
EF8747-ICV8747	F200139.D	06/26/21	07:01	04:36	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample: EF8748-DFTPP
Lab File ID: F200141.D
Instrument ID: GCMSF
Injection Date: 06/26/21
Injection Time: 07:50

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	109987	37.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	145599	49.2		Pass
70	Less than 2.0% of mass 69	601	0.20	(0.41) [a]	Pass
127	40.0 - 60.0% of mass 198	152682	51.6		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	295893	100.0		Pass
199	5.0 - 9.0% of mass 198	20589	6.96		Pass
275	10.0 - 30.0% of mass 198	78098	26.4		Pass
365	1.0 - 100.0% of mass 198	9893	3.34		Pass
441	Present, but less than mass 443	24447	8.26	(79.4) [b]	Pass
442	40.0 - 100.0% of mass 198	155984	52.7		Pass
443	17.0 - 23.0% of mass 442	30778	10.4	(19.7) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF8748-IC8748	F200142.D	06/26/21	08:01	00:11	Initial cal 100
EF8748-IC8748	F200143.D	06/26/21	08:26	00:36	Initial cal 80
EF8748-ICC8748	F200144.D	06/26/21	08:52	01:02	Initial cal 50
EF8748-IC8748	F200145.D	06/26/21	09:18	01:28	Initial cal 25
EF8748-IC8748	F200146.D	06/26/21	09:43	01:53	Initial cal 10
EF8748-IC8748	F200147.D	06/26/21	10:09	02:19	Initial cal 5
EF8748-IC8748	F200148.D	06/26/21	10:35	02:45	Initial cal 2
EF8748-IC8748	F200149.D	06/26/21	11:02	03:12	Initial cal 1
EF8748-ICV8747	F200151.D	06/26/21	11:54	04:04	Initial cal verification 50
EF8748-ICV8747	F200152.D	06/26/21	12:19	04:29	Initial cal verification 50
EF8748-ICV8748	F200153.D	06/26/21	12:46	04:56	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample: EF8807-DFTPP
Lab File ID: F201228.D
Instrument ID: GCMSF
Injection Date: 08/18/21
Injection Time: 15:15

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	65656	34.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	87458	45.9		Pass
70	Less than 2.0% of mass 69	506	0.27	(0.58) [a]	Pass
127	40.0 - 60.0% of mass 198	95647	50.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	190741	100.0		Pass
199	5.0 - 9.0% of mass 198	13268	6.96		Pass
275	10.0 - 30.0% of mass 198	52435	27.5		Pass
365	1.0 - 100.0% of mass 198	6753	3.54		Pass
441	Present, but less than mass 443	17872	9.37	(77.4) [b]	Pass
442	40.0 - 100.0% of mass 198	115992	60.8		Pass
443	17.0 - 23.0% of mass 442	23077	12.1	(19.9) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF8807-CC8747	F201229.D	08/18/21	15:28	00:13	Continuing cal 50
EF8807-CC8748	F201230.D	08/18/21	15:56	00:41	Continuing cal 50
OP34922-MB1	F201231.D	08/18/21	16:25	01:10	Method Blank
OP34922-BS1	F201232A.D	08/18/21	16:55	01:40	Blank Spike
ZZZZZZ	F201233.D	08/18/21	17:23	02:08	(unrelated sample)
ZZZZZZ	F201234.D	08/18/21	17:51	02:36	(unrelated sample)
ZZZZZZ	F201235.D	08/18/21	18:19	03:04	(unrelated sample)
JD29923-1	F201236.D	08/18/21	18:46	03:31	SB-1 (6-6.5)
JD29923-4	F201237.D	08/18/21	19:14	03:59	SB-5 (6-6.5)
JD29923-5	F201238.D	08/18/21	19:42	04:27	SB-6 (9.5-10.0)
JD29923-6	F201239.D	08/18/21	20:10	04:55	SB-8 (9.5-10.0)
JD29923-7	F201240A.D	08/18/21	21:16	06:01	SB-9 (7.5-8.0)
JD29923-8	F201241.D	08/18/21	21:44	06:29	SB-10 (7.5-8.0)
JD29923-2	F201242.D	08/18/21	22:12	06:57	SB-2 (4.5-5.0)
JD29923-3	F201243.D	08/18/21	22:39	07:24	SB-3 (6-6.5)
ZZZZZZ	F201244A.D	08/19/21	00:01	08:46	(unrelated sample)
OP34922-MS	F201245.D	08/19/21	00:29	09:14	Matrix Spike
OP34922-MSD	F201246.D	08/19/21	00:56	09:41	Matrix Spike Duplicate
OP34947-MS	F201247.D	08/19/21	01:24	10:09	Matrix Spike

Instrument Performance Check (DFTPP)

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample:	EF8807-DFTPP	**Injection Date:**	08/18/21
Lab File ID:	F201228.D	**Injection Time:**	15:15
Instrument ID:	GCMSF		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP34947-LS19	F201247.D	08/19/21	01:24	10:09	Leachate Spike
OP34947-MSD	F201248.D	08/19/21	01:52	10:37	Matrix Spike Duplicate
ZZZZZZ	F201249.D	08/19/21	02:20	11:05	(unrelated sample)
ZZZZZZ	F201250.D	08/19/21	02:48	11:33	(unrelated sample)

Internal Standard Area Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Check Std:	EF8807-CC8747	**Injection Date:**	08/18/21
Lab File ID:	F201229.D	**Injection Time:**	15:28
Instrument ID:	GCMSF	**Method:**	SW846 8270E

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	316503	4.65	1218124	5.58	729922	6.98	1374313	8.86	1288156	14.14	1242727	17.19
Upper Limit [a]	633006	5.15	2436248	6.08	1459844	7.48	2748626	9.36	2576312	14.64	2485454	17.69
Lower Limit [b]	158252	4.15	609062	5.08	364961	6.48	687157	8.36	644078	13.64	621364	16.69

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP34922-MB1	355332	4.65	1371030	5.57	752562	6.98	1332191	8.86	1072768	14.13	1038063	17.18
OP34922-BS1	358719	4.65	1338213	5.58	755797	6.98	1358245	8.86	1193334	14.14	1117820	17.18
ZZZZZZ	370042	4.65	1412999	5.57	801083	6.98	1392558	8.86	1152561	14.13	1086372	17.18
ZZZZZZ	377254	4.65	1431874	5.57	787302	6.98	1402999	8.86	1145713	14.13	1070248	17.18
ZZZZZZ	364911	4.65	1381350	5.57	759612	6.98	1342009	8.86	1096939	14.13	1015043	17.17
JD29923-1	378822	4.65	1406977	5.57	795491	6.98	1408796	8.86	1155465	14.13	1060229	17.18
JD29923-4	360821	4.65	1360733	5.57	768176	6.98	1357023	8.86	1087282	14.13	1004887	17.18
JD29923-5	359254	4.65	1371264	5.57	756014	6.98	1356673	8.86	1098741	14.13	1050170	17.18
JD29923-6	384632	4.65	1466908	5.57	806238	6.98	1430591	8.86	1141014	14.13	1072534	17.18
JD29923-7	376238	4.65	1430266	5.58	789658	6.99	1410829	8.87	1139086	14.14	1088221	17.18
JD29923-8	370849	4.65	1403241	5.57	782931	6.98	1378836	8.86	1140602	14.13	1072127	17.18
JD29923-2	375893	4.65	1430617	5.57	783728	6.98	1362827	8.86	1119639	14.13	1079243	17.18
JD29923-3	369547	4.65	1365009	5.57	747489	6.98	1336181	8.86	1076393	14.13	1061094	17.18
ZZZZZZ	423789	4.65	1593547	5.58	856498	6.99	1498414	8.87	1241025	14.14	1226179	17.18
OP34922-MS	387372	4.65	1438348	5.58	798736	6.98	1421605	8.86	1218442	14.14	1140674	17.18
OP34922-MSD	388808	4.65	1444988	5.57	810722	6.98	1430887	8.86	1209977	14.13	1133854	17.18
OP34947-LS19	364425	4.65	1387066	5.58	798481	6.98	1469374	8.86	1360316	14.14	1311423	17.18
OP34947-MS	364425	4.65	1387066	5.58	798481	6.98	1469374	8.86	1360316	14.14	1311423	17.18
OP34947-MSD	354058	4.65	1354553	5.58	781855	6.98	1430348	8.86	1353169	14.14	1285237	17.18
ZZZZZZ	396036	4.65	1470106	5.57	783387	6.98	1405104	8.86	1219105	14.13	1300276	17.18
ZZZZZZ	390788	4.65	1445322	5.57	787207	6.98	1393189	8.86	1259656	14.14	1346718	17.19

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Method: SW846 8270E **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JD29923-1	F201236.D	58	55	63	68	63	77
JD29923-2	F201242.D	48	44	49	54	51	61
JD29923-3	F201243.D	42	40	41	51	48	53
JD29923-4	F201237.D	65	62	70	78	72	85
JD29923-5	F201238.D	58	56	62	67	64	78
JD29923-6	F201239.D	55	52	59	64	60	73
JD29923-7	F201240A.D	54	51	59	61	60	74
JD29923-8	F201241.D	45	43	55	53	50	65
OP34922-BS1	F201232A.D	67	64	80	77	72	81
OP34922-MB1	F201231.D	74	69	80	84	79	95
OP34922-MS	F201245.D	76	70	78	86	80	90
OP34922-MSD	F201246.D	73	69	76	84	77	87

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	7-101%
S2 = Phenol-d5	12-101%
S3 = 2,4,6-Tribromophenol	10-127%
S4 = Nitrobenzene-d5	15-114%
S5 = 2-Fluorobiphenyl	22-104%
S6 = Terphenyl-d14	23-121%

Initial Calibration Summary

Job Number: JD29923 **Sample:** EF8747-ICC8747
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** F200134.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Response Factor Report GCMSF

Method : C:\MSDCHEM\1\METHODS\MF8747.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jun 26 09:41:21 2021
Response via : Initial Calibration

Calibration Files
2 =F200130.D 5 =F200131.D 25 =F200133.D 80 =F200135.D
100 =F200136.D 50 =F200134.D 10 =F200132.D 1 =F200129.D

Compound	2	5	25	80	100	50	10	1	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	ISTD									
2) 1,4-Dioxane	0.608	0.588	0.516	0.535	0.520	0.530	0.536	0.552	0.548	6.05
3) Pyridine	1.306	1.345	1.444	1.490	1.484	1.456	1.349	1.335	1.401	5.32
4) N-Nitrosodim	0.775	0.703	0.709	0.738	0.725	0.732	0.681	0.745	0.726	3.94
5) 2-Fluorophen	1.193	1.150	1.215	1.295	1.315	1.276	1.201	1.152	1.225	5.18
6) Indene	2.249	2.104	2.234	2.391	2.457	2.297	2.186	2.125	2.255	5.46
7) Cumene	3.143	3.130	3.243	3.474	3.515	3.398	3.157	3.109	3.271	5.08
8) Phenol-d5	1.659	1.525	1.673	1.751	1.779	1.679	1.639	1.575	1.660	5.04
9) Phenol	1.639	1.550	1.661	1.779	1.860	1.721	1.665	1.565	1.680	6.22
10) Aniline	2.160	2.018	2.044	2.208	2.246	2.124	2.063	1.916	2.097	5.16
11) bis(2-Chloro	1.252	1.188	1.210	1.267	1.297	1.225	1.169	1.255	1.233	3.47
12) 2-Chlorophen	1.275	1.254	1.333	1.389	1.405	1.340	1.336	1.273	1.326	4.14
13) Decane	1.236	1.073	1.120	1.152	1.184	1.129	1.106	1.122	1.140	4.43
14) 1,3-Dichloro	1.565	1.410	1.507	1.591	1.614	1.544	1.451	1.560	1.530	4.57
15) 1,4-Dichloro	1.584	1.503	1.522	1.601	1.656	1.562	1.489	1.545	1.558	3.55
16) Benzyl alcoh	0.823	0.801	0.861	0.956	0.951	0.892	0.864	0.772	0.865	7.69
17) 1,2-Dichloro	1.446	1.440	1.432	1.493	1.551	1.455	1.415	1.337	1.446	4.26
18) Acetophenone	1.896	1.764	1.940	2.128	2.139	2.045	1.852	1.845	1.951	7.11
19) 2-Methylphen	1.168	1.064	1.233	1.300	1.325	1.235	1.200	1.129	1.207	7.13
20) 2,2'-oxybis(	0.393	0.345	0.347	0.363	0.377	0.353	0.358	0.335	0.359	5.16
21) 3&4-Methylph	1.209	1.203	1.367	1.476	1.527	1.400	1.276	1.219	1.335	9.49
22) n-Nitroso-di	0.977	0.950	1.019	1.022	1.028	1.014	0.979	0.804	0.974	7.61
23) Hexachloroet	0.532	0.551	0.560	0.584	0.593	0.573	0.533	0.544	0.559	4.13
24) I Naphthalene-d8	ISTD									
25) Nitrobenzene	0.384	0.377	0.393	0.406	0.410	0.408	0.376	0.338	0.386	6.21
26) Nitrobenzene	0.403	0.386	0.401	0.417	0.413	0.414	0.407	0.370	0.401	3.95
27) Quinoline	0.599	0.601	0.628	0.664	0.693	0.652	0.601	0.596	0.629	5.80
28) Isophorone	0.602	0.680	0.704	0.743	0.765	0.733	0.660	0.629	0.689	8.29
29) 2-Nitropheno	0.147	0.154	0.184	0.197	0.200	0.191	0.174	0.174	0.178	10.85
30) 2,4-Dimethyl	0.375	0.366	0.381	0.402	0.409	0.393	0.373	0.337	0.379	6.04
31) Benzoic acid		0.189	0.253	0.281	0.293	0.278	0.222		0.253	15.88
----- Quadratic regression -----								Coefficient =		0.9997
Response Ratio = -0.01048 + 0.26592 *A + 0.01190 *A^2										
32) bis(2-Chloro	0.355	0.381	0.394	0.415	0.420	0.406	0.382	0.371	0.391	5.76
33) 2,4-Dichloro	0.264	0.263	0.289	0.305	0.312	0.291	0.280	0.268	0.284	6.48
34) 2,6-Dichloro	0.275	0.268	0.284	0.312	0.318	0.300	0.273	0.239	0.284	9.12
35) 1,3,5-Trichl	0.339	0.324	0.334	0.358	0.365	0.348	0.321	0.335	0.341	4.51
36) 1,2,4-Trichl	0.337	0.302	0.324	0.340	0.344	0.330	0.313	0.337	0.328	4.44
37) 1,2,3-Trichl	0.286	0.300	0.303	0.320	0.331	0.310	0.297	0.279	0.303	5.63
38) Naphthalene	0.972	0.954	0.986	1.065	1.093	1.057	0.962	0.975	1.008	5.40
39) 4-Chloroanil	0.383	0.386	0.421	0.453	0.472	0.428	0.377	0.381	0.413	8.87
40) 2,3-Dichloro	0.325	0.347	0.363	0.385	0.399	0.372	0.346	0.311	0.356	8.34
41) Hydroquinone	0.258	0.280	0.318	0.341	0.354	0.324	0.287	0.229	0.299	14.40
42) Hexachlorobu	0.194	0.195	0.208	0.213	0.220	0.207	0.197	0.203	0.205	4.52

Initial Calibration Summary

Job Number: JD29923 **Sample:** EF8747-ICC8747
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** F200134.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

43)	4-Chloro-3-m	0.266	0.286	0.306	0.331	0.345	0.322	0.299	0.279	0.304	8.89
44)	2-Methylnaph	0.561	0.550	0.583	0.634	0.638	0.598	0.549	0.546	0.582	6.48
45)	1-Methylnaph	0.577	0.594	0.622	0.660	0.692	0.636	0.628	0.594	0.625	6.06
46)	I Acenaphthene-d10	----------ISTD----------									
47)	Hexachlorocy	0.318	0.313	0.350	0.381	0.404	0.376	0.331	0.332	0.351	9.44
48)	1,2,4,5-tetr	0.584	0.605	0.598	0.637	0.661	0.623	0.588	0.564	0.607	5.16
49)	2,4,6-Trichl	0.367	0.394	0.411	0.437	0.448	0.422	0.367	0.356	0.400	8.63
50)	2,4,5-Trichl	0.364	0.384	0.410	0.428	0.457	0.429	0.396	0.366	0.404	8.13
51)	2-Fluorobiph	1.276	1.248	1.334	1.385	1.460	1.388	1.274	1.278	1.330	5.60
52)	2-Chloronaph	1.140	1.095	1.124	1.173	1.221	1.170	1.091	1.064	1.135	4.58
53)	Biphenyl	1.399	1.377	1.458	1.537	1.605	1.524	1.445	1.426	1.472	5.27
54)	2-Nitroanili	0.336	0.330	0.375	0.380	0.398	0.388	0.344	0.304	0.357	9.23
55)	Dimethylphth	1.246	1.236	1.284	1.311	1.419	1.331	1.283	1.139	1.281	6.32
56)	Acenaphthyle	1.292	1.245	1.380	1.438	1.526	1.419	1.362	1.238	1.363	7.36
57)	2,6-Dinitrot	0.236	0.237	0.279	0.287		0.289	0.260	0.185	0.253	14.68
58)	3-Nitroanili	0.254	0.248	0.306	0.313	0.333	0.310	0.282	0.235	0.285	12.61
59)	Acenaphthene	1.136	1.105	1.139	1.149	1.233	1.176	1.128	1.075	1.143	4.13
60)	2,4-Dinitrop	0.131	0.158	0.202	0.226	0.247	0.222	0.181		0.195	21.00
	----- Quadratic regression -----								Coefficient =		0.9994
	Response Ratio = -0.00720 + 0.19324 *A + 0.01048 *A^2										
61)	4-Nitropheno	0.190	0.230	0.237	0.251	0.239	0.207		0.226		10.13
62)	Dibenzofuran	1.626	1.504	1.579	1.656	1.742	1.624	1.554	1.546	1.604	4.65
63)	2,4-Dinitrot	0.318	0.334	0.386	0.402	0.438	0.402	0.354	0.309	0.368	12.53
64)	2,3,4,6-Tetr	0.276	0.321	0.347	0.353	0.382	0.356	0.343	0.260	0.330	12.65
65)	Diethylphtha	1.194	1.239	1.305	1.365	1.441	1.355	1.251	1.173	1.290	7.16
66)	Fluorene	1.275	1.210	1.306	1.405	1.481	1.346	1.304	1.140	1.309	8.15
67)	4-Chlorophen	0.627	0.638	0.641	0.683	0.730	0.675	0.636	0.592	0.653	6.44
68)	4-Nitroanili	0.284	0.261	0.311	0.321	0.341	0.324	0.290		0.305	9.02
69)	I Phenanthrene-d10	----------ISTD----------									
70)	4,6-Dinitro-	0.099	0.126	0.145	0.148	0.142	0.113		0.129		15.49
	----- Quadratic regression -----								Coefficient =		0.9996
	Response Ratio = -0.00515 + 0.13467 *A + 0.00650 *A^2										
71)	n-Nitrosodip	0.602	0.571	0.630	0.670	0.674	0.656	0.610	0.589	0.625	6.15
72)	1,2-Diphenyl	0.721	0.748	0.791	0.827	0.825	0.829	0.772	0.692	0.776	6.70
73)	2,4,6-Tribro	0.083	0.092	0.110	0.114	0.118	0.118	0.102		0.105	13.08
74)	4-Bromopheny	0.205	0.202	0.208	0.224	0.229	0.220	0.214	0.188	0.211	6.38
75)	Hexachlorobe	0.217	0.235	0.230	0.242	0.245	0.240	0.230	0.221	0.232	4.25
76)	Pentachlorop	0.121	0.139	0.160	0.176	0.179	0.173	0.150	0.140	0.155	13.48
77)	Phenanthrene	0.965	0.983	1.021	1.069	1.094	1.068	1.024	1.088	1.039	4.64
78)	Anthracene	0.941	0.977	1.032	1.122	1.132	1.094	1.017	0.906	1.028	8.18
79)	Carbazole	0.879	0.885	0.929	0.978	1.016	0.974	0.910	0.794	0.921	7.61
80)	Di-n-butylph	0.988	1.014	1.178	1.281	1.293	1.253	1.112	0.950	1.134	12.16
81)	Fluoranthene	1.061	1.056	1.110	1.191	1.214	1.170	1.118	0.960	1.110	7.52
82)	Octadecane	0.340	0.353	0.389	0.404	0.405	0.405	0.365	0.340	0.375	7.76
83)	I Chrysene-d12	----------ISTD----------									
84)	Benzidine	0.510	0.541	0.620	0.714	0.775	0.690	0.550		0.628	15.98
	----- Quadratic regression -----								Coefficient =		0.9996
	Response Ratio = -0.00490 + 0.57820 *A + 0.07715 *A^2										
85)	Pyrene	1.161	1.225	1.249	1.281	1.317	1.319	1.240	1.217	1.251	4.26
86)	Terphenyl-d1	0.920	0.933	0.978	1.001	0.980	0.913		0.954		3.87
87)	Butylbenzylp	0.415	0.461	0.534	0.574	0.578	0.580	0.492		0.519	12.52
88)	Benzo[a]anth	1.099	1.088	1.154	1.218	1.238	1.205	1.115	1.165	1.160	4.89
89)	3,3'-Dichlor	0.317	0.366	0.417	0.468	0.479	0.457	0.401		0.415	14.23
90)	Chrysene	1.179	1.111	1.142	1.191	1.221	1.189	1.145	1.145	1.165	3.05

Initial Calibration Summary

Job Number: JD29923 **Sample:** EF8747-ICC8747
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** F200134.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

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 91) bis(2-Ethylh 0.511 0.590 0.754 0.817 0.837 0.807 0.680       0.714  17.49
          ----- Quadratic regression -----                 Coefficient =  0.9997
               Response Ratio = -0.01572 + 0.75997 *A + 0.03388 *A^2


 92) I   Perylene-d12          ----------------ISTD--------------------
 93) Di-n-octylph 0.887 0.955 1.359 1.500 1.530 1.450 1.116       1.257  21.27
          ----- Quadratic regression -----                 Coefficient =  0.9993
               Response Ratio = -0.03259 + 1.33669 *A + 0.08693 *A^2

 94) Benzo[b]fluo 1.066 1.128 1.244 1.292 1.309 1.228 1.163 0.952 1.173  10.34
 95) Benzo[k]fluo 1.033 1.072 1.131 1.209 1.219 1.219 1.133 1.040 1.132   6.92
 96) Benzo[a]pyre 0.896 0.941 1.120 1.209 1.210 1.157 1.033 0.811 1.047  14.46
 97) Indeno[1,2,3 0.811 0.848 0.960 1.050 1.070 1.029 0.909 0.758 0.929  12.57
 98) Dibenz(a,h)a       0.773 0.900 1.001 1.005 0.960 0.819       0.910  10.67
 99) Dibenz[a,h]a 0.917 0.940 1.050 1.156 1.173 1.123 1.008 0.836 1.026  11.89
100) 7,12-Dimethy       0.417 0.521 0.587 0.600 0.555 0.444       0.521  14.51
101) Benzo[g,h,i] 0.966 1.006 1.099 1.177 1.187 1.127 1.047 0.981 1.074   8.05


 ------------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           MF8747.M          Sat Jun 26 09:43:22 2021
```

8.7.1

8

Initial Calibration Verification

Job Number: JD29923 **Sample:** EF8747-ICV8747
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** F200137.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF8747\F200137.D Vial: 10
Acq On : 26 Jun 2021 6:09 am Operator: chriss2
Sample : icv8747-50 Inst : GCMSF
Misc : op30563,ef8747,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MF8747.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jun 26 11:52:59 2021
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	113	0.00	4.65
2	t	1,4-Dioxane	0.548	0.446	18.6	95	0.00	2.18
6	t	Indene	2.255	2.147	4.8	105	0.00	4.83
7	t	Cumene	3.271	3.029	7.4	101	0.00	4.05
11	t	bis(2-Chloroethyl)ether	1.233	1.124	8.8	104	0.00	4.45
13	t	Decane	1.140	1.005	11.8	100	0.00	4.53
14	t	1,3-Dichlorobenzene	1.530	1.404	8.2	103	0.00	4.60
15	t	1,4-Dichlorobenzene	1.558	1.397	10.3	101	0.00	4.66
16	t	Benzyl alcohol	0.865	0.798	7.7	101	0.00	4.75
17	t	1,2-Dichlorobenzene	1.446	1.311	9.3	102	0.00	4.77
18	t	Acetophenone	1.951	1.740	10.8	96	0.00	4.94
20	t	2,2'-oxybis(1-Chloropropa	0.359	0.319	11.1	102	0.00	4.85
23	t	Hexachloroethane	0.559	0.516	7.7	102	0.00	5.02
24	I	Naphthalene-d8	1.000	1.000	0.0	115	0.00	5.57
26	t	Nitrobenzene	0.401	0.358	10.7	100	0.00	5.06
27	t	Quinoline	0.629	0.598	4.9	106	0.00	5.82
28	t	Isophorone	0.689	0.663	3.8	105	0.00	5.23

		----------	AvgRF	CCRF	% Dev	----------		
32	t	bis(2-Chloroethoxy)methan	0.391	0.362	7.4	103	0.00	5.39
35		1,3,5-Trichlorobenzene	0.341	0.313	8.2	104	0.00	5.30
36	t	1,2,4-Trichlorobenzene	0.328	0.298	9.1	104	0.00	5.53
37		1,2,3-Trichlorobenzene	0.303	0.284	6.3	106	0.00	5.69
38	t	Naphthalene	1.008	0.939	6.8	103	0.00	5.59
40	t	2,3-Dichloroaniline	0.356	0.318	10.7	98	0.00	6.30
42	t	Hexachlorobutadiene	0.205	0.190	7.3	106	0.00	5.67
44	t	2-Methylnaphthalene	0.582	0.545	6.4	105	0.00	6.08
45	t	1-Methylnaphthalene	0.625	0.585	6.4	106	0.00	6.16

Initial Calibration Verification

Job Number: JD29923 **Sample:** EF8747-ICV8747
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** F200137.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

46	I	Acenaphthene-d10	1.000	1.000	0.0	118	0.00	6.97
47	t	Hexachlorocyclopentadiene	0.351	0.292	16.8	92	0.00	6.20
48	t	1,2,4,5-tetrachlorobenzen	0.607	0.545	10.2	104	0.00	6.21
52	t	2-Chloronaphthalene	1.135	1.063	6.3	107	0.00	6.47
53	t	Biphenyl	1.472	1.360	7.6	106	0.00	6.45
55	t	Dimethylphthalate	1.281	1.215	5.2	108	0.00	6.71
57	t	2,6-Dinitrotoluene	0.253	0.266	-5.1	109	0.00	6.77
59	t	Acenaphthene	1.143	1.052	8.0	106	0.00	7.01
		----------	AvgRF	CCRF	% Dev	----------		
62	t	Dibenzofuran	1.604	1.477	7.9	108	0.00	7.19
63	t	2,4-Dinitrotoluene	0.368	0.352	4.3	103	0.00	7.16
65	t	Diethylphthalate	1.290	1.234	4.3	108	0.00	7.44
66	t	Fluorene	1.309	1.239	5.3	109	0.00	7.57
67	t	4-Chlorophenyl-phenylethe	0.653	0.601	8.0	105	0.00	7.57
69	I	Phenanthrene-d10	1.000	1.000	0.0	122	0.00	8.86
72	t	1,2-Diphenylhydrazine	0.776	0.722	7.0	106	0.00	7.77
74	t	4-Bromophenyl-phenylether	0.211	0.198	6.2	109	0.00	8.21
75	t	Hexachlorobenzene	0.232	0.212	8.6	107	0.00	8.27
77	t	Phenanthrene	1.039	0.955	8.1	109	0.00	8.89
78	t	Anthracene	1.028	0.907	11.8	101	0.00	8.97
79	t	Carbazole	0.921	0.865	6.1	108	0.00	9.25
80	t	Di-n-butylphthalate	1.134	1.129	0.4	109	0.00	9.98
81	t	Fluoranthene	1.110	1.066	4.0	111	0.00	11.04
82	t	Octadecane	0.375	0.354	5.6	106	0.00	8.78
83	I	Chrysene-d12	1.000	1.000	0.0	122	0.00	14.14
		----------	AvgRF	CCRF	% Dev	----------		
85	t	Pyrene	1.251	1.182	5.5	110	0.00	11.48
87	t	Butylbenzylphthalate	0.519	0.525	-1.2	111	0.00	13.12
88	t	Benzo[a]anthracene	1.160	1.076	7.2	109	0.00	14.12
90	t	Chrysene	1.165	1.066	8.5	110	0.00	14.19
		----------	True	Calc.	% Drift	----------		
91	t	bis(2-Ethylhexyl)phthalat	50.000	46.611	6.8	111	0.00	14.56
		----------	AvgRF	CCRF	% Dev	----------		
92	I	Perylene-d12	1.000	1.000	0.0	98	0.00	17.18

Initial Calibration Verification

Job Number: JD29923 **Sample:** EF8747-ICV8747
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** F200137.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

			True	Calc.	% Drift			
93	t	Di-n-octylphthalate	50.000	56.891	-13.8	111	0.00	16.01

			AvgRF	CCRF	% Dev			
94	t	Benzo[b]fluoranthene	1.173	1.386	-18.2	111	0.00	16.43
95	t	Benzo[k]fluoranthene	1.132	1.296	-14.5	104	0.00	16.49
96	t	Benzo[a]pyrene	1.047	1.218	-16.3	103	0.00	17.07
97	t	Indeno[1,2,3-cd]pyrene	0.929	1.108	-19.3	106	0.00	19.13
98	t	Dibenz(a,h)acridine	0.910	1.073	-17.9	110	0.00	18.78
99	t	Dibenz[a,h]anthracene	1.026	1.227	-19.6	107	0.00	19.20
101	t	Benzo[g,h,i]perylene	1.074	1.236	-15.1	108	0.00	19.56

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F200144A.D MF8747.M Mon Jun 28 09:18:10 2021

8.7.2

8

Initial Calibration Verification

Job Number: JD29923 **Sample:** EF8747-ICV8747
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** F200138.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF8747\F200138.D Vial: 11
Acq On : 26 Jun 2021 6:35 am Operator: chriss2
Sample : icv8747-50 Inst : GCMSF
Misc : op30563,ef8747,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MF8747.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jun 26 09:41:21 2021
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	118	0.00	4.65
9	t	Phenol	1.680	1.579	6.0	108	0.00	4.37
12	t	2-Chlorophenol	1.326	1.248	5.9	110	0.00	4.49
19	t	2-Methylphenol	1.207	1.156	4.2	110	0.00	4.82
21	t	3&4-Methylphenol	1.335	1.262	5.5	106	0.00	4.93
24	I	Naphthalene-d8	1.000	1.000	0.0	115	0.00	5.57
29	t	2-Nitrophenol	0.178	0.171	3.9	103	0.00	5.29
30	t	2,4-Dimethylphenol	0.379	0.369	2.6	108	0.00	5.32
		----------	True	Calc.	% Drift	----------		
31	t	Benzoic acid	50.000	46.844	6.3	105	0.00	5.39
		----------	AvgRF	CCRF	% Dev	----------		
33	t	2,4-Dichlorophenol	0.284	0.285	-0.4	113	0.00	5.46
34		2,6-Dichlorophenol	0.284	0.280	1.4	107	0.00	5.62
41	t	Hydroquinone	0.299	0.304	-1.7	108	0.00	5.84
43	t	4-Chloro-3-methylphenol	0.304	0.307	-1.0	110	0.00	5.96
46	I	Acenaphthene-d10	1.000	1.000	0.0	119	0.00	6.98
49	t	2,4,6-Trichlorophenol	0.400	0.380	5.0	107	0.00	6.30
50	t	2,4,5-Trichlorophenol	0.404	0.408	-1.0	113	0.00	6.32
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	96.474	3.5	112	0.00	7.03
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.226	0.221	2.2	110	0.00	7.08

8.7.3

8

Initial Calibration Verification

Job Number: JD29923 **Sample:** EF8747-ICV8747
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** F200138.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

64		2,3,4,6-Tetrachlorophenol	0.330	0.330	0.0	111	0.00	7.31
69	I	Phenanthrene-d10	1.000	1.000	0.0	121	0.00	8.86
			True	Calc.	% Drift			
70	t	4,6-Dinitro-2-methylpheno	50.000	45.745	8.5	107	0.00	7.62
76	t	Pentachlorophenol	0.155	0.159	-2.6	111	0.00	8.56

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F200134.D MF8747.M Sat Jun 26 09:43:37 2021

8.7.3

8

Initial Calibration Verification

Job Number: JD29923 **Sample:** EF8747-ICV8747
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** F200139.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF8747\F200139.D Vial: 12
Acq On : 26 Jun 2021 7:01 am Operator: chriss2
Sample : icv8747-50 Inst : GCMSF
Misc : op30563,ef8747,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MF8747.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jun 26 09:41:21 2021
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	120	0.00	4.65
3	t	Pyridine	1.401	1.298	7.4	107	0.00	2.50
4	t	N-Nitrosodimethylamine	0.726	0.668	8.0	110	0.00	2.47
10	t	Aniline	2.097	2.014	4.0	114	0.00	4.40
22		n-Nitroso-di-n-propylamin	0.974	0.950	2.5	113	0.00	4.94
24	I	Naphthalene-d8	1.000	1.000	0.0	123	0.00	5.57
39	t	4-Chloroaniline	0.413	0.388	6.1	112	0.00	5.62
46	I	Acenaphthene-d10	1.000	1.000	0.0	124	0.00	6.97
54	t	2-Nitroaniline	0.357	0.363	-1.7	116	0.00	6.55
58	t	3-Nitroaniline	0.285	0.289	-1.4	115	0.00	6.93
68	t	4-Nitroaniline	0.305	0.285	6.6	109	0.00	7.58
69	I	Phenanthrene-d10	1.000	1.000	0.0	129	0.00	8.86
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.625	0.580	7.2	114	0.00	7.72
83	I	Chrysene-d12	1.000	1.000	0.0	128	0.00	14.13
		----------	True	Calc.	% Drift	----------		
84	t	Benzidine	50.000	56.897	-13.8	144	0.00	11.39
89	t	3,3'-Dichlorobenzidine	0.415	0.417	-0.5	117	0.00	14.17

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F200134.D MF8747.M Sat Jun 26 09:43:39 2021

8.7.4

Initial Calibration Summary

Job Number: JD29923 **Sample:** EF8748-ICC8748
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** F200144.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Response Factor Report GCMSF

Method : C:\MSDCHEM\1\METHODS\MF8747.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jun 26 11:54:08 2021
Response via : Initial Calibration

Calibration Files
2 =F200148.D 5 =F200147.D 25 =F200145.D 80 =F200143.D
100 =F200142.D 50 =F200144.D 10 =F200146.D 1 =F200149.D

Compound	2	5	25	80	100	50	10	1	Avg	%RSD
157) I 1,4-Dichlorobenzene-d	ISTD									
158) Benzaldehyde	0.924	0.933	1.015	1.080	1.153	1.044	1.011	1.117	1.035	7.90
159) I Phenanthrene-d10b	ISTD									
160) Atrazine	0.139	0.173	0.186	0.207	0.217	0.189	0.181		0.185	13.52
161) I Naphthalene-d8b	ISTD									
162) Caprolactam	0.084	0.082	0.103	0.114	0.120	0.109	0.100	0.078	0.099	16.06

----- Quadratic regression ----- Coefficient = 0.9997
Response Ratio = -0.00071 + 0.09793 *A + 0.00876 *A^2

(#) = Out of Range ### Number of calibration levels exceeded format ###

MF8747.M Sat Jun 26 11:59:03 2021

8.7.5

Initial Calibration Verification

Job Number: JD29923 **Sample:** EF8748-ICV8747
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** F200151.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF8747\F200151.D Vial: 23
Acq On : 26 Jun 2021 11:54 am Operator: chriss2
Sample : icv8747-50 Inst : GCMSF
Misc : op30563,ef8748,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MF8747.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jun 26 11:54:08 2021
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00	4.65
5	S	2-Fluorophenol	1.225	1.160	5.3	87	0.00	3.65
8	S	Phenol-d5	1.660	1.475	11.1	84	0.00	4.37
24	I	Naphthalene-d8	1.000	1.000	0.0	96	0.00	5.56
25	S	Nitrobenzene-d5	0.386	0.396	-2.6	93	0.00	5.05
46	I	Acenaphthene-d10	1.000	1.000	0.0	96	0.00	6.98
51	S	2-Fluorobiphenyl	1.330	1.359	-2.2	94	0.00	6.37
69	I	Phenanthrene-d10	1.000	1.000	0.0	96	0.00	8.85
73	S	2,4,6-Tribromophenol	0.105	0.099	5.7	80	0.00	7.86
83	I	Chrysene-d12	1.000	1.000	0.0	86	0.00	14.13
86	S	Terphenyl-d14	0.954	1.083	-13.5	95	0.00	11.93

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F200144A.D MF8747.M Sat Jun 26 12:35:45 2021

8.7.6

Initial Calibration Verification

Job Number: JD29923 **Sample:** EF8748-ICV8747
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** F200152.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF8747\F200152.D Vial: 24
Acq On : 26 Jun 2021 12:19 pm Operator: chriss2
Sample : icv8747-50 Inst : GCMSF
Misc : op30563,ef8748,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MF8747.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jun 26 11:52:59 2021
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
46 I	Acenaphthene-d10	1.000	1.000	0.0	98	0.00	6.98
56 t	Acenaphthylene	1.363	1.598	-17.2	111	0.00	6.84

	Compound	AvgRF	CCRF	% Dev			
92 I	Perylene-d12	1.000	1.000	0.0	101	0.00	17.18
100 t	7,12-Dimethylbenz(a)anthr	0.521	0.429	17.7	78	0.00	16.46

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F200144A.D MF8747.M Mon Jun 28 09:21:20 2021

8.7.7

Initial Calibration Verification

Job Number: JD29923 **Sample:** EF8748-ICV8748
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** F200153.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF8747\F200153.D Vial: 25
Acq On : 26 Jun 2021 12:46 pm Operator: chriss2
Sample : icv8748-50 Inst : GCMSF
Misc : op30563,ef8748,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MF8747.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jun 26 11:52:59 2021
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
157	I	1,4-Dichlorobenzene-d4b	1.000	1.000	0.0	113	0.00	4.65
158		Benzaldehyde	1.035	1.034	0.1	112	0.00	4.32
159	I	Phenanthrene-d10b	1.000	1.000	0.0	110	0.00	8.86
160		Atrazine	0.181	0.202	-11.6	117	0.01	8.47
161	I	Naphthalene-d8b	1.000	1.000	0.0	110	0.00	5.57
162		Caprolactam	0.099	0.109	-10.1	110	0.02	5.85

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F200144A.D MF8747.M Mon Jun 28 09:23:56 2021

8.7.8

Continuing Calibration Summary

Job Number: JD29923 **Sample:** EF8807-CC8747
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** F201229.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\jo...1921\ef8807\f201229.d Vial: 2
Acq On : 18 Aug 2021 3:28 pm Operator: kristis
Sample : cc8747-50 Inst : GCMSF
Misc : op34584,ef8807,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MF8747.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Aug 17 23:28:01 2021
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	71	0.00	4.65
2	t	1,4-Dioxane	0.548	0.473	13.7	63	0.00	2.19
3	t	Pyridine	1.401	1.379	1.6	67	0.00	2.52
4	t	N-Nitrosodimethylamine	0.726	0.741	-2.1	72	0.00	2.49
5	S	2-Fluorophenol	1.225	1.213	1.0	68	0.00	3.67
6	t	Indene	2.255	2.288	-1.5	71	0.00	4.84
7	t	Cumene	3.271	3.462	-5.8	72	0.00	4.06
8	S	Phenol-d5	1.660	1.679	-1.1	71	0.00	4.39
9	t	Phenol	1.680	1.829	-8.9	76	0.00	4.41
10	t	Aniline	2.097	2.147	-2.4	72	0.00	4.41
11	t	bis(2-Chloroethyl)ether	1.233	1.286	-4.3	75	0.00	4.46
12	t	2-Chlorophenol	1.326	1.336	-0.8	71	0.00	4.50
13	t	Decane	1.140	1.147	-0.6	72	0.00	4.53
14	t	1,3-Dichlorobenzene	1.530	1.533	-0.2	71	0.00	4.61
15	t	1,4-Dichlorobenzene	1.558	1.545	0.8	70	0.00	4.66
16	t	Benzyl alcohol	0.865	0.887	-2.5	71	0.00	4.76
17	t	1,2-Dichlorobenzene	1.446	1.436	0.7	70	0.00	4.77
18	t	Acetophenone	1.951	2.037	-4.4	71	0.00	4.95
19	t	2-Methylphenol	1.207	1.276	-5.7	73	0.00	4.84
20	t	2,2'-oxybis(1-Chloropropa	0.359	0.401	-11.7	81	0.00	4.85
21	t	3&4-Methylphenol	1.335	1.325	0.7	67	0.00	4.96
22		n-Nitroso-di-n-propylamin	0.974	1.114	-14.4	78	0.00	4.95
23	t	Hexachloroethane	0.559	0.585	-4.7	73	0.00	5.02
24	I	Naphthalene-d8	1.000	1.000	0.0	72	0.00	5.58
25	S	Nitrobenzene-d5	0.386	0.431	-11.7	76	0.00	5.06
26	t	Nitrobenzene	0.401	0.444	-10.7	77	0.00	5.07
27	t	Quinoline	0.629	0.662	-5.2	73	0.00	5.83
28	t	Isophorone	0.689	0.780	-13.2	77	0.00	5.24
29	t	2-Nitrophenol	0.178	0.188	-5.6	71	0.00	5.30
30	t	2,4-Dimethylphenol	0.379	0.399	-5.3	73	0.00	5.33
		----------	True	Calc.	% Drift	----------		
31	t	Benzoic acid	50.000	45.171	9.7	63	0.02	5.42
		----------	AvgRF	CCRF	% Dev	----------		
32	t	bis(2-Chloroethoxy)methan	0.391	0.411	-5.1	73	0.00	5.39
33	t	2,4-Dichlorophenol	0.284	0.299	-5.3	74	0.00	5.48
34		2,6-Dichlorophenol	0.284	0.298	-4.9	71	0.00	5.63
35		1,3,5-Trichlorobenzene	0.341	0.353	-3.5	73	0.00	5.30
36	t	1,2,4-Trichlorobenzene	0.328	0.347	-5.8	75	0.00	5.53
37		1,2,3-Trichlorobenzene	0.303	0.318	-5.0	74	0.00	5.69

Continuing Calibration Summary

Job Number: JD29923 **Sample:** EF8807-CC8747
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** F201229.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

38	t	Naphthalene	1.008	1.027	-1.9	70	0.00	5.59
39	t	4-Chloroaniline	0.413	0.434	-5.1	73	0.00	5.63
40	t	2,3-Dichloroaniline	0.356	0.376	-5.6	73	0.00	6.31
41	t	Hydroquinone	0.299	0.286	4.3	63	0.00	5.86
42	t	Hexachlorobutadiene	0.205	0.219	-6.8	76	0.00	5.67
43	t	4-Chloro-3-methylphenol	0.304	0.344	-13.2	77	0.00	5.98
44	t	2-Methylnaphthalene	0.582	0.627	-7.7	75	0.00	6.09
45	t	1-Methylnaphthalene	0.625	0.665	-6.4	75	0.00	6.16
46	I	Acenaphthene-d10	1.000	1.000	0.0	78	0.00	6.98
47	t	Hexachlorocyclopentadiene	0.351	0.341	2.8	70	0.00	6.21
48	t	1,2,4,5-tetrachlorobenzen	0.607	0.592	2.5	74	0.00	6.22
49	t	2,4,6-Trichlorophenol	0.400	0.403	-0.8	74	0.00	6.31
50	t	2,4,5-Trichlorophenol	0.404	0.425	-5.2	77	0.00	6.34
51	S	2-Fluorobiphenyl	1.330	1.337	-0.5	75	0.00	6.37
52	t	2-Chloronaphthalene	1.135	1.150	-1.3	76	0.00	6.48
53	t	Biphenyl	1.472	1.472	0.0	75	0.00	6.46
54	t	2-Nitroaniline	0.357	0.412	-15.4	82	0.00	6.56
55	t	Dimethylphthalate	1.281	1.367	-6.7	80	0.00	6.72
56	t	Acenaphthylene	1.363	1.404	-3.0	77	0.00	6.85
57	t	2,6-Dinitrotoluene	0.253	0.298	-17.8	80	0.00	6.78
58	t	3-Nitroaniline	0.285	0.313	-9.8	78	0.00	6.94
59	t	Acenaphthene	1.143	1.131	1.0	75	0.00	7.02
			True	Calc.	% Drift			
60	t	2,4-Dinitrophenol	100.000	91.983	8.0	69	0.00	7.04
			AvgRF	CCRF	% Dev			
61	t	4-Nitrophenol	0.226	0.222	1.8	72	0.00	7.12
62	t	Dibenzofuran	1.604	1.591	0.8	76	0.00	7.19
63	t	2,4-Dinitrotoluene	0.368	0.423	-14.9	82	0.00	7.18
64		2,3,4,6-Tetrachlorophenol	0.330	0.355	-7.6	78	0.00	7.33
65	t	Diethylphthalate	1.290	1.424	-10.4	82	0.00	7.45
66	t	Fluorene	1.309	1.335	-2.0	77	0.00	7.58
67	t	4-Chlorophenyl-phenylethe	0.653	0.692	-6.0	80	0.00	7.58
68	t	4-Nitroaniline	0.305	0.315	-3.3	76	0.00	7.61
69	I	Phenanthrene-d10	1.000	1.000	0.0	82	0.00	8.86
			True	Calc.	% Drift			
70	t	4,6-Dinitro-2-methylpheno	50.000	49.725	0.5	80	0.00	7.64
			AvgRF	CCRF	% Dev			
71	t	n-Nitrosodiphenylamine	0.625	0.631	-1.0	79	0.00	7.72
72	t	1,2-Diphenylhydrazine	0.776	0.791	-1.9	78	0.00	7.78
73	S	2,4,6-Tribromophenol	0.105	0.113	-7.6	79	0.00	7.87
74	t	4-Bromophenyl-phenylether	0.211	0.227	-7.6	85	0.00	8.21
75	t	Hexachlorobenzene	0.232	0.242	-4.3	83	0.00	8.28
76	t	Pentachlorophenol	0.155	0.168	-8.4	80	0.00	8.58
77	t	Phenanthrene	1.039	1.034	0.5	79	0.00	8.90
78	t	Anthracene	1.028	1.056	-2.7	79	0.00	8.98
79	t	Carbazole	0.921	0.942	-2.3	79	0.00	9.26
80	t	Di-n-butylphthalate	1.134	1.269	-11.9	83	0.00	9.97
81	t	Fluoranthene	1.110	1.179	-6.2	83	0.00	11.04
82	t	Octadecane	0.375	0.401	-6.9	81	0.00	8.77
83	I	Chrysene-d12	1.000	1.000	0.0	83	0.00	14.14
			True	Calc.	% Drift			
84	t	Benzidine	50.000	51.620	-3.2	84	0.00	11.40

Continuing Calibration Summary

Job Number: JD29923 **Sample:** EF8807-CC8747
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** F201229.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

			AvgRF	CCRF	% Dev			
85	t	Pyrene	1.251	1.298	-3.8	82	0.00	11.49
86	S	Terphenyl-d14	0.954	1.020	-6.9	87	0.00	11.93
87	t	Butylbenzylphthalate	0.519	0.585	-12.7	84	0.00	13.11
88	t	Benzo[a]anthracene	1.160	1.234	-6.4	85	0.00	14.12
89	t	3,3'-Dichlorobenzidine	0.415	0.470	-13.3	86	0.00	14.17
90	t	Chrysene	1.165	1.212	-4.0	85	0.00	14.20
			True	Calc.	% Drift			
91	t	bis(2-Ethylhexyl)phthalat	50.000	52.161	-4.3	85	0.00	14.53
			AvgRF	CCRF	% Dev			
92	I	Perylene-d12	1.000	1.000	0.0	85	0.00	17.19
			True	Calc.	% Drift			
93	t	Di-n-octylphthalate	50.000	50.298	-0.6	84	0.00	15.99
			AvgRF	CCRF	% Dev			
94	t	Benzo[b]fluoranthene	1.173	1.269	-8.2	88	0.01	16.44
95	t	Benzo[k]fluoranthene	1.132	1.226	-8.3	85	0.00	16.50
96	t	Benzo[a]pyrene	1.047	1.170	-11.7	86	0.01	17.08
97	t	Indeno[1,2,3-cd]pyrene	0.929	0.988	-6.4	81	0.00	19.13
98	t	Dibenz(a,h)acridine	0.910	0.966	-6.2	85	0.00	18.78
99	t	Dibenz[a,h]anthracene	1.026	1.119	-9.1	85	0.00	19.20
100	t	7,12-Dimethylbenz(a)anthr	0.521	0.592	-13.6	91	0.01	16.46
101	t	Benzo[g,h,i]perylene	1.074	1.155	-7.5	87	0.01	19.56

(#) = Out of Range SPCC's out = 0 CCC's out = 0
f201011.d MF8747.M Thu Aug 19 00:38:33 2021

8.7.9

8

Continuing Calibration Summary

Job Number: JD29923 **Sample:** EF8807-CC8748
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** F201230.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\jo...1921\ef8807\f201230.d Vial: 3
Acq On : 18 Aug 2021 3:56 pm Operator: kristis
Sample : cc8748-50 Inst : GCMSF
Misc : op34584,ef8807,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MF8747.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Aug 17 23:28:01 2021
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102 I	1,4-Dichlorobenzene-d4b	1.000	1.000	0.0	89	0.00	4.65
103	Benzaldehyde	1.035	1.079	-4.3	92	-0.06	4.33
104 I	Phenanthrene-d10b	1.000	1.000	0.0	94	0.00	8.86
105	Atrazine	0.181	0.218	-20.4#	108	-0.11	8.47
106 I	Naphthalene-d8b	1.000	1.000	0.0	89	0.00	5.57
107	Caprolactam	0.099	0.126	-27.3#	103	-0.06	5.87

(#) = Out of Range SPCC's out = 0 CCC's out = 0
f201011.d MF8747.M Thu Aug 19 00:39:07 2021

8.7.10

8

Run Sequence Report

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Run ID: EF8747 **Method:** SW846 8270E **Instrument ID:** GCMSF

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
EF8747-DFTPP	F200128.D	06/26/21 02:25	n/a	DFTPP Tune
EF8747-IC8747	F200129.D	06/26/21 02:42	n/a	Initial cal 1
EF8747-IC8747	F200130.D	06/26/21 03:08	n/a	Initial cal 2
EF8747-IC8747	F200131.D	06/26/21 03:33	n/a	Initial cal 5
EF8747-IC8747	F200132.D	06/26/21 03:59	n/a	Initial cal 10
EF8747-IC8747	F200133.D	06/26/21 04:25	n/a	Initial cal 25
EF8747-ICC8747	F200134.D	06/26/21 04:51	n/a	Initial cal 50
EF8747-IC8747	F200135.D	06/26/21 05:17	n/a	Initial cal 80
EF8747-IC8747	F200136.D	06/26/21 05:43	n/a	Initial cal 100
EF8747-ICV8747	F200137.D	06/26/21 06:09	n/a	Initial cal verification 50
EF8747-ICV8747	F200138.D	06/26/21 06:35	n/a	Initial cal verification 50
EF8747-ICV8747	F200139.D	06/26/21 07:01	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Run ID: EF8748 **Method:** SW846 8270E **Instrument ID:** GCMSF

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
EF8748-DFTPP	F200141.D	06/26/21 07:50	n/a	DFTPP Tune
EF8748-IC8748	F200142.D	06/26/21 08:01	n/a	Initial cal 100
EF8748-IC8748	F200143.D	06/26/21 08:26	n/a	Initial cal 80
EF8748-ICC8748	F200144.D	06/26/21 08:52	n/a	Initial cal 50
EF8748-IC8748	F200145.D	06/26/21 09:18	n/a	Initial cal 25
EF8748-IC8748	F200146.D	06/26/21 09:43	n/a	Initial cal 10
EF8748-IC8748	F200147.D	06/26/21 10:09	n/a	Initial cal 5
EF8748-IC8748	F200148.D	06/26/21 10:35	n/a	Initial cal 2
EF8748-IC8748	F200149.D	06/26/21 11:02	n/a	Initial cal 1
EF8748-ICV8747	F200151.D	06/26/21 11:54	n/a	Initial cal verification 50
EF8748-ICV8747	F200152.D	06/26/21 12:19	n/a	Initial cal verification 50
EF8748-ICV8748	F200153.D	06/26/21 12:46	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Run ID: EF8807	**Method:** SW846 8270E	**Instrument ID:** GCMSF

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
EF8807-DFTPP	F201228.D	08/18/21 15:15	n/a	DFTPP Tune
EF8807-CC8747	F201229.D	08/18/21 15:28	n/a	Continuing cal 50
EF8807-CC8748	F201230.D	08/18/21 15:56	n/a	Continuing cal 50
OP34922-MB1	F201231.D	08/18/21 16:25	OP34922	Method Blank
OP34922-BS1	F201232A.D	08/18/21 16:55	OP34922	Blank Spike
ZZZZZZ	F201233.D	08/18/21 17:23	OP34922	(unrelated sample)
ZZZZZZ	F201234.D	08/18/21 17:51	OP34922	(unrelated sample)
ZZZZZZ	F201235.D	08/18/21 18:19	OP34922	(unrelated sample)
JD29923-1	F201236.D	08/18/21 18:46	OP34922	SB-1 (6-6.5)
JD29923-4	F201237.D	08/18/21 19:14	OP34922	SB-5 (6-6.5)
JD29923-5	F201238.D	08/18/21 19:42	OP34922	SB-6 (9.5-10.0)
JD29923-6	F201239.D	08/18/21 20:10	OP34922	SB-8 (9.5-10.0)
JD29923-7	F201240A.D	08/18/21 21:16	OP34922	SB-9 (7.5-8.0)
JD29923-8	F201241.D	08/18/21 21:44	OP34922	SB-10 (7.5-8.0)
JD29923-2	F201242.D	08/18/21 22:12	OP34922	SB-2 (4.5-5.0)
JD29923-3	F201243.D	08/18/21 22:39	OP34922	SB-3 (6-6.5)
ZZZZZZ	F201244A.D	08/19/21 00:01	OP34922	(unrelated sample)
OP34922-MS	F201245.D	08/19/21 00:29	OP34922	Matrix Spike
OP34922-MSD	F201246.D	08/19/21 00:56	OP34922	Matrix Spike Duplicate
OP34947-MS	F201247.D	08/19/21 01:24	OP34947	Matrix Spike
OP34947-LS19	F201247.D	08/19/21 01:24	OP34947	Leachate Spike
OP34947-MSD	F201248.D	08/19/21 01:52	OP34947	Matrix Spike Duplicate
ZZZZZZ	F201249.D	08/19/21 02:20	OP34922	(unrelated sample)
ZZZZZZ	F201250.D	08/19/21 02:48	OP34922	(unrelated sample)

MS Semi-volatiles

Raw Data

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201236.d
Acq On : 18 Aug 2021 6:46 pm
Operator : kristis
Sample : jd29923-1 Inst : GCMSF
Misc : op34922,ef8807,11.3,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 01:39:31 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration

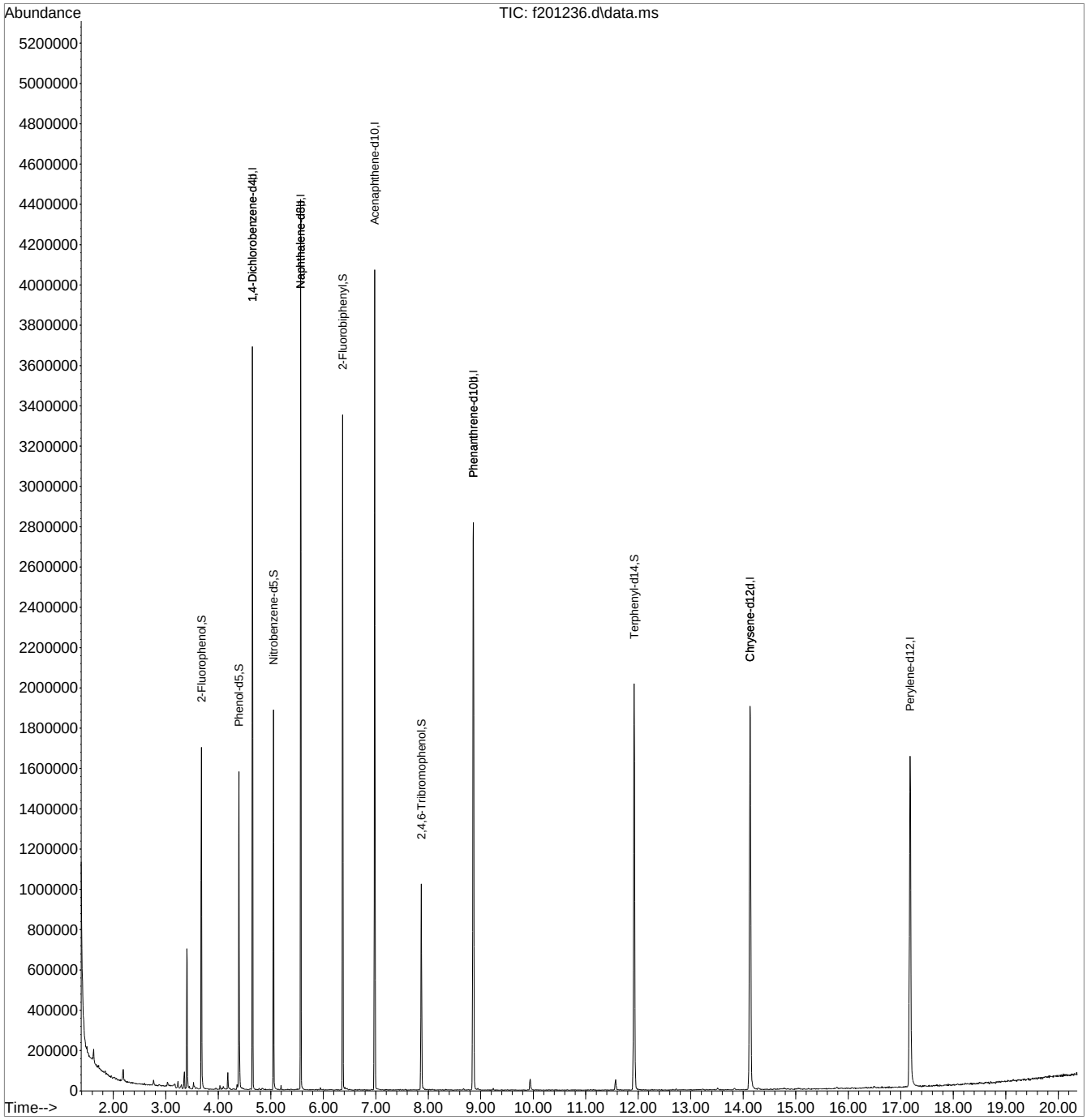
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.651	152	378822	40.00	ppm	0.00
24) Naphthalene-d8	5.570	136	1406977	40.00	ppm	0.00
46) Acenaphthene-d10	6.981	164	795491	40.00	ppm	0.00
69) Phenanthrene-d10	8.861	188	1408796	40.00	ppm	0.00
83) Chrysene-d12	14.129	240	1155465	40.00	ppm	-0.02
92) Perylene-d12	17.179	264	1060229	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4b	4.651	152	378822	40.00	ppm	0.00
104) Phenanthrene-d10b	8.861	188	1408796	40.00	ppm	0.00
106) Naphthalene-d8b	5.570	136	1406977	40.00	ppm	0.00
108) Chrysene-d12d	14.129	240	1155465	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.679	112	334254	28.82	ppm	0.00
Spiked Amount 50.000			Recovery = 57.64%			
8) Phenol-d5	4.395	99	428815	27.28	ppm	0.00
Spiked Amount 50.000			Recovery = 54.56%			
25) Nitrobenzene-d5	5.052	82	461804	33.97	ppm	0.00
Spiked Amount 50.000			Recovery = 67.94%			
51) 2-Fluorobiphenyl	6.372	172	838380	31.69	ppm	0.00
Spiked Amount 50.000			Recovery = 63.38%			
73) 2,4,6-Tribromophenol	7.867	330	116136	31.32	ppm	0.00
Spiked Amount 50.000			Recovery = 62.64%			
86) Terphenyl-d14	11.922	244	1059320	38.44	ppm	0.00
Spiked Amount 50.000			Recovery = 76.88%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201236.d
Acq On : 18 Aug 2021 6:46 pm
Operator : kristis
Sample : jd29923-1 Inst : GCMSF
Misc : op34922,ef8807,11.3,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 01:39:31 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration



MF8747.M Thu Aug 19 02:36:10 2021 Page: 2

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201236.d
Acq On : 18 Aug 2021 6:46 pm
Operator : kristis
Sample : jd29923-1
Misc : op34922,ef8807,11.3,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: f201236.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.189	145	151	163	rVB2	65592	114892	3.19%	0.356%
2	2.258	163	164	167	rVB3	6367	5263	0.15%	0.016%
3	2.600	226	228	231	rVB3	9995	8130	0.23%	0.025%
4	2.621	231	232	238	rBV6	5079	6820	0.19%	0.021%
5	2.766	254	259	265	rVB2	28005	34989	0.97%	0.109%
6	2.830	269	271	275	rVB2	5844	6396	0.18%	0.020%
7	2.878	275	280	288	rBV9	8481	16680	0.46%	0.052%
8	3.011	301	305	306	rBV4	5257	4780	0.13%	0.015%
9	3.033	306	309	315	rVV5	20830	28454	0.79%	0.088%
10	3.076	315	317	320	rVV4	8060	7981	0.22%	0.025%
11	3.097	320	321	325	rVV4	6171	8137	0.23%	0.025%
12	3.140	326	329	332	rVV4	8423	14315	0.40%	0.044%
13	3.172	332	335	340	rVB5	21352	30839	0.86%	0.096%
14	3.236	341	347	351	rVB2	35187	37571	1.04%	0.117%
15	3.300	352	359	363	rVB6	21524	33460	0.93%	0.104%
16	3.353	363	369	374	rBV	84323	85391	2.37%	0.265%
17	3.401	374	378	384	rBV	693699	591870	16.44%	1.836%
18	3.449	384	387	396	rVB4	14278	16061	0.45%	0.050%
19	3.530	396	402	410	rBV2	33248	45533	1.26%	0.141%
20	3.583	410	412	420	rVB7	8354	12693	0.35%	0.039%
21	3.679	420	430	446	rBV	1696877	1333548	37.03%	4.138%
22	3.952	479	481	488	rVB2	6866	7012	0.19%	0.022%
23	4.032	492	496	501	rVB3	19939	16851	0.47%	0.052%
24	4.069	501	503	505	rBV2	8320	6015	0.17%	0.019%
25	4.096	505	508	515	rBV2	13593	16340	0.45%	0.051%
26	4.181	520	524	537	rVB	84200	81402	2.26%	0.253%
27	4.288	539	544	546	rBV4	5512	6893	0.19%	0.021%
28	4.358	554	557	559	rBV2	25500	23582	0.65%	0.073%
29	4.395	559	564	574	rVV	1577372	1359347	37.75%	4.218%
30	4.459	574	576	579	rVB3	7992	8287	0.23%	0.026%
31	4.609	598	604	608	rBV3	5793	9863	0.27%	0.031%
32	4.651	608	612	623	rVB	3688781	2486209	69.05%	7.714%
33	4.780	632	636	639	rBV4	9001	9810	0.27%	0.030%
34	4.838	642	647	649	rBV3	6977	8419	0.23%	0.026%
35	4.897	656	658	660	rVB2	5244	3721	0.10%	0.012%
36	4.977	668	673	676	rVB6	4093	5978	0.17%	0.019%
37	5.052	682	687	698	rBV	1887536	1346864	37.40%	4.179%
38	5.196	708	714	717	rBV2	22939	17016	0.47%	0.053%
39	5.319	732	737	738	rBV4	3571	3718	0.10%	0.012%
40	5.383	744	749	753	rBV6	4982	9659	0.27%	0.030%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201236.d
Acq On : 18 Aug 2021 6:46 pm
Operator : kristis
Sample : jd29923-1
Misc : op34922,ef8807,11.3,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

41	5.496	764	770	771	rBV4	4258	6091	0.17%	0.019%
42	5.522	771	775	777	rVV2	4986	6680	0.19%	0.021%
43	5.570	778	784	801	rVB	4420158	3051880	84.76%	9.470%
44	5.795	819	826	836	rVB4	3268	8806	0.24%	0.027%
45	5.875	836	841	844	rVB5	4490	6994	0.19%	0.022%
46	5.896	844	845	849	rBV2	3893	4742	0.13%	0.015%
47	5.944	850	854	861	rVV2	13211	14394	0.40%	0.045%
48	5.998	862	864	867	rVV2	4445	3592	0.10%	0.011%
49	6.051	870	874	877	rBV2	3634	3685	0.10%	0.011%
50	6.249	904	911	915	rVB2	4612	8768	0.24%	0.027%
51	6.281	915	917	923	rBV2	4614	5613	0.16%	0.017%
52	6.372	928	934	940	rVV	3352719	2565206	71.24%	7.959%
53	6.414	940	942	944	rVV2	15231	12727	0.35%	0.039%
54	6.457	948	950	954	rVB5	9675	10216	0.28%	0.032%
55	6.612	976	979	984	rBV3	3601	4697	0.13%	0.015%
56	6.687	987	993	996	rVB3	5060	5378	0.15%	0.017%
57	6.922	1032	1037	1040	rBV3	5030	5725	0.16%	0.018%
58	6.981	1040	1048	1067	rBV	4072412	3533965	98.14%	10.965%
59	7.125	1072	1075	1079	rVB2	3800	5739	0.16%	0.018%
60	7.189	1085	1087	1090	rBV	4364	3570	0.10%	0.011%
61	7.424	1127	1131	1136	rVB3	3801	5355	0.15%	0.017%
62	7.461	1136	1138	1145	rVB3	5240	6864	0.19%	0.021%
63	7.515	1145	1148	1152	rBV2	4210	3564	0.10%	0.011%
64	7.563	1152	1157	1162	rVB5	4837	7491	0.21%	0.023%
65	7.664	1171	1176	1177	rBV2	3917	4109	0.11%	0.013%
66	7.803	1198	1202	1206	rBV5	4140	6431	0.18%	0.020%
67	7.867	1206	1214	1226	rVV	1024475	1089903	30.27%	3.382%
68	7.948	1226	1229	1231	rVV2	4981	4516	0.13%	0.014%
69	7.985	1235	1236	1239	rVB3	4801	4246	0.12%	0.013%
70	8.033	1239	1245	1248	rBV4	5131	8267	0.23%	0.026%
71	8.081	1248	1254	1258	rBV3	4548	6971	0.19%	0.022%
72	8.172	1268	1271	1275	rBV4	2498	4270	0.12%	0.013%
73	8.225	1275	1281	1283	rVV4	3114	4309	0.12%	0.013%
74	8.332	1294	1301	1305	rBV3	5982	9222	0.26%	0.029%
75	8.503	1328	1333	1336	rBV2	3613	5343	0.15%	0.017%
76	8.562	1340	1344	1348	rVV3	3178	4109	0.11%	0.013%
77	8.674	1358	1365	1370	rBV4	8121	9261	0.26%	0.029%
78	8.770	1375	1383	1386	rBV4	4543	7565	0.21%	0.023%
79	8.861	1390	1400	1412	rVV	2817180	3600819	100.00%	11.173%
80	8.947	1412	1416	1420	rVB2	8934	12333	0.34%	0.038%
81	9.203	1461	1464	1467	rBV2	3338	4085	0.11%	0.013%
82	9.240	1467	1471	1476	rVB4	10454	11518	0.32%	0.036%
83	9.289	1479	1480	1484	rBV	4003	4817	0.13%	0.015%
84	9.395	1496	1500	1507	rVB4	3853	6036	0.17%	0.019%
85	9.470	1510	1514	1519	rBV4	3402	5181	0.14%	0.016%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201236.d
Acq On : 18 Aug 2021 6:46 pm
Operator : kristis
Sample : jd29923-1
Misc : op34922,ef8807,11.3,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

86	9.508	1519	1521	1528	rVB3	3950	6356	0.18%	0.020%
87	9.620	1532	1542	1545	rVB5	3101	7398	0.21%	0.023%
88	9.898	1589	1594	1596	rBV3	4137	4812	0.13%	0.015%
89	9.940	1596	1602	1614	rVB4	55565	83330	2.31%	0.259%
90	10.090	1625	1630	1631	rVB2	2623	3765	0.10%	0.012%
91	10.298	1665	1669	1671	rBV3	3876	5029	0.14%	0.016%
92	10.357	1675	1680	1682	rBV2	3094	5481	0.15%	0.017%
93	10.560	1709	1718	1721	rBV3	2921	6142	0.17%	0.019%
94	10.651	1726	1735	1739	rVV3	3549	6910	0.19%	0.021%
95	10.811	1761	1765	1768	rVB3	3390	5549	0.15%	0.017%
96	10.848	1768	1772	1777	rBV3	3094	6064	0.17%	0.019%
97	11.089	1815	1817	1823	rBV2	4628	6261	0.17%	0.019%
98	11.388	1866	1873	1874	rVB3	2228	4302	0.12%	0.013%
99	11.511	1892	1896	1898	rVB2	3495	4159	0.12%	0.013%
100	11.570	1898	1907	1915	rBV3	53752	83593	2.32%	0.259%
101	11.650	1921	1922	1929	rBV3	4372	4902	0.14%	0.015%
102	11.922	1959	1973	1984	rBV	2017742	2941471	81.69%	9.127%
103	11.992	1984	1986	1991	rVB4	6367	5493	0.15%	0.017%
104	12.104	2003	2007	2011	rBV4	3627	5968	0.17%	0.019%
105	12.264	2031	2037	2040	rBV2	5884	7073	0.20%	0.022%
106	12.339	2046	2051	2056	rVB4	2605	5728	0.16%	0.018%
107	12.446	2069	2071	2075	rVB3	5060	3929	0.11%	0.012%
108	12.601	2098	2100	2104	rBV4	3090	4911	0.14%	0.015%
109	12.659	2108	2111	2114	rBV	5413	5093	0.14%	0.016%
110	12.724	2119	2123	2128	rVB3	8460	10395	0.29%	0.032%
111	13.007	2173	2176	2179	rVB3	5495	6052	0.17%	0.019%
112	13.044	2179	2183	2186	rBV3	4315	6024	0.17%	0.019%
113	13.076	2186	2189	2191	rBV2	3831	3736	0.10%	0.012%
114	13.215	2213	2215	2225	rVB8	5597	12386	0.34%	0.038%
115	13.301	2227	2231	2235	rBV3	4649	8146	0.23%	0.025%
116	13.370	2241	2244	2248	rVB3	3082	3733	0.10%	0.012%
117	13.509	2263	2270	2279	rVB8	10609	23142	0.64%	0.072%
118	13.829	2322	2330	2336	rBV7	10019	21166	0.59%	0.066%
119	14.129	2377	2386	2407	rBV2	1902527	3258947	90.51%	10.112%
120	14.251	2407	2409	2412	rVB2	5512	3660	0.10%	0.011%
121	14.284	2412	2415	2425	rVB7	8354	18410	0.51%	0.057%
122	14.353	2425	2428	2434	rVB5	3071	5691	0.16%	0.018%
123	14.401	2434	2437	2440	rBV4	3417	4487	0.12%	0.014%
124	14.529	2453	2461	2463	rBV7	4160	7222	0.20%	0.022%
125	14.786	2506	2509	2511	rVV2	4531	3746	0.10%	0.012%
126	14.850	2517	2521	2526	rVB4	5350	7394	0.21%	0.023%
127	14.914	2529	2533	2536	rBV3	3891	5348	0.15%	0.017%
128	14.983	2542	2546	2549	rBV4	5407	4870	0.14%	0.015%
129	15.047	2553	2558	2562	rVV3	6917	12270	0.34%	0.038%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201236.d
Acq On : 18 Aug 2021 6:46 pm
Operator : kristis
Sample : jd29923-1
Misc : op34922,ef8807,11.3,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

130	15.074	2562	2563	2566	rVB2	5152	4233	0.12%	0.013%
131	15.240	2589	2594	2598	rBV4	4774	5249	0.15%	0.016%
132	15.363	2615	2617	2620	rVB3	4518	3864	0.11%	0.012%
133	15.475	2631	2638	2641	rBV5	3220	7141	0.20%	0.022%
134	15.640	2665	2669	2671	rVB3	3809	4973	0.14%	0.015%
135	15.779	2690	2695	2702	rVV8	8140	16637	0.46%	0.052%
136	15.849	2706	2708	2712	rVV4	3844	4814	0.13%	0.015%
137	15.881	2712	2714	2717	rVB3	4076	3542	0.10%	0.011%
138	15.966	2725	2730	2732	rBV4	4327	4882	0.14%	0.015%
139	16.009	2736	2738	2742	rVV3	3650	4312	0.12%	0.013%
140	16.068	2745	2749	2756	rVV6	6828	14167	0.39%	0.044%
141	16.116	2756	2758	2762	rVB4	6071	8165	0.23%	0.025%
142	16.356	2799	2803	2805	rVB5	5615	6900	0.19%	0.021%
143	16.383	2805	2808	2812	rBV4	5967	7860	0.22%	0.024%
144	16.420	2812	2815	2817	rVV3	5794	4814	0.13%	0.015%
145	16.442	2817	2819	2822	rVV3	5832	4113	0.11%	0.013%
146	16.495	2824	2829	2834	rVV7	9289	15337	0.43%	0.048%
147	16.565	2838	2842	2844	rVB3	4271	3565	0.10%	0.011%
148	16.639	2853	2856	2857	rVB2	7731	4252	0.12%	0.013%
149	16.693	2863	2866	2869	rVB4	5615	5707	0.16%	0.018%
150	16.720	2869	2871	2874	rBV4	6562	5525	0.15%	0.017%
151	16.757	2874	2878	2879	rVB3	7719	7809	0.22%	0.024%
152	16.778	2879	2882	2884	rBV3	8683	8143	0.23%	0.025%
153	16.805	2886	2887	2891	rVB4	5764	6421	0.18%	0.020%
154	16.842	2891	2894	2897	rBV5	6297	9035	0.25%	0.028%
155	16.885	2897	2902	2904	rVB5	4475	4609	0.13%	0.014%
156	16.901	2904	2905	2912	rBV5	3479	5363	0.15%	0.017%
157	16.955	2914	2915	2918	rBV2	4615	3910	0.11%	0.012%
158	17.099	2939	2942	2945	rVB5	5928	4593	0.13%	0.014%
159	17.179	2945	2957	2977	rBV2	1643032	3074166	85.37%	9.539%
160	17.366	2989	2992	2997	rVB5	9013	9804	0.27%	0.030%
161	17.414	2997	3001	3002	rBV4	6675	7427	0.21%	0.023%
162	17.425	3002	3003	3005	rBV2	7368	4434	0.12%	0.014%
163	17.451	3005	3008	3010	rBV4	7439	6871	0.19%	0.021%
164	17.542	3023	3025	3028	rBV4	8008	5148	0.14%	0.016%
165	17.687	3049	3052	3054	rVB4	8233	6130	0.17%	0.019%
166	17.703	3054	3055	3060	rVB5	8440	8289	0.23%	0.026%
167	17.740	3060	3062	3067	rBV5	8434	12908	0.36%	0.040%
168	17.825	3073	3078	3081	rBV6	6154	8828	0.25%	0.027%
169	17.863	3082	3085	3087	rVB4	4762	4359	0.12%	0.014%
170	17.938	3096	3099	3102	rVB5	7631	8324	0.23%	0.026%
171	17.970	3104	3105	3107	rBV2	6437	4466	0.12%	0.014%
172	18.055	3116	3121	3123	rBV4	6094	9109	0.25%	0.028%
173	18.082	3123	3126	3131	rVV7	7338	10844	0.30%	0.034%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201236.d
Acq On : 18 Aug 2021 6:46 pm
Operator : kristis
Sample : jd29923-1
Misc : op34922,ef8807,11.3,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

174	18.130	3132	3135	3136	rVB3	5431	4652	0.13%	0.014%
175	18.167	3140	3142	3143	rBV2	6331	3558	0.10%	0.011%
176	18.226	3150	3153	3158	rBV5	7536	9523	0.26%	0.030%
177	18.264	3158	3160	3162	rBV3	4260	3872	0.11%	0.012%
178	18.322	3170	3171	3173	rBV	7700	4312	0.12%	0.013%
179	18.450	3192	3195	3197	rVB4	6611	4383	0.12%	0.014%
180	18.504	3202	3205	3209	rBV6	9278	12659	0.35%	0.039%
181	18.611	3221	3225	3227	rBV4	7300	9071	0.25%	0.028%
182	18.669	3233	3236	3239	rVB3	7372	5988	0.17%	0.019%
183	18.712	3241	3244	3248	rBV6	12523	16175	0.45%	0.050%
184	18.771	3252	3255	3258	rVB5	4451	4840	0.13%	0.015%
185	18.819	3262	3264	3265	rBV2	11636	7481	0.21%	0.023%
186	18.921	3281	3283	3286	rVB4	4310	3962	0.11%	0.012%
187	19.129	3321	3322	3324	rBV2	7110	5287	0.15%	0.016%
188	19.230	3338	3341	3342	rBV3	8807	8907	0.25%	0.028%
189	19.289	3351	3352	3354	rBV2	7621	5132	0.14%	0.016%
190	19.348	3362	3363	3369	rVB5	9026	11423	0.32%	0.035%
191	19.476	3385	3387	3390	rBV4	9617	10957	0.30%	0.034%
192	19.508	3391	3393	3398	rVV6	11211	13589	0.38%	0.042%
193	19.546	3398	3400	3403	rVV4	9654	9565	0.27%	0.030%
194	19.578	3404	3406	3410	rVB4	10921	10644	0.30%	0.033%
195	19.620	3410	3414	3415	rBV4	12385	13103	0.36%	0.041%
196	19.733	3430	3435	3436	rBV5	11040	16472	0.46%	0.051%
197	20.064	3494	3497	3498	rVB3	11268	9569	0.27%	0.030%
198	20.096	3502	3503	3506	rBV3	16359	10869	0.30%	0.034%
199	20.251	3530	3532	3535	rVB3	7908	5456	0.15%	0.017%
200	20.310	3541	3543	3548	rBV6	8171	9467	0.26%	0.029%

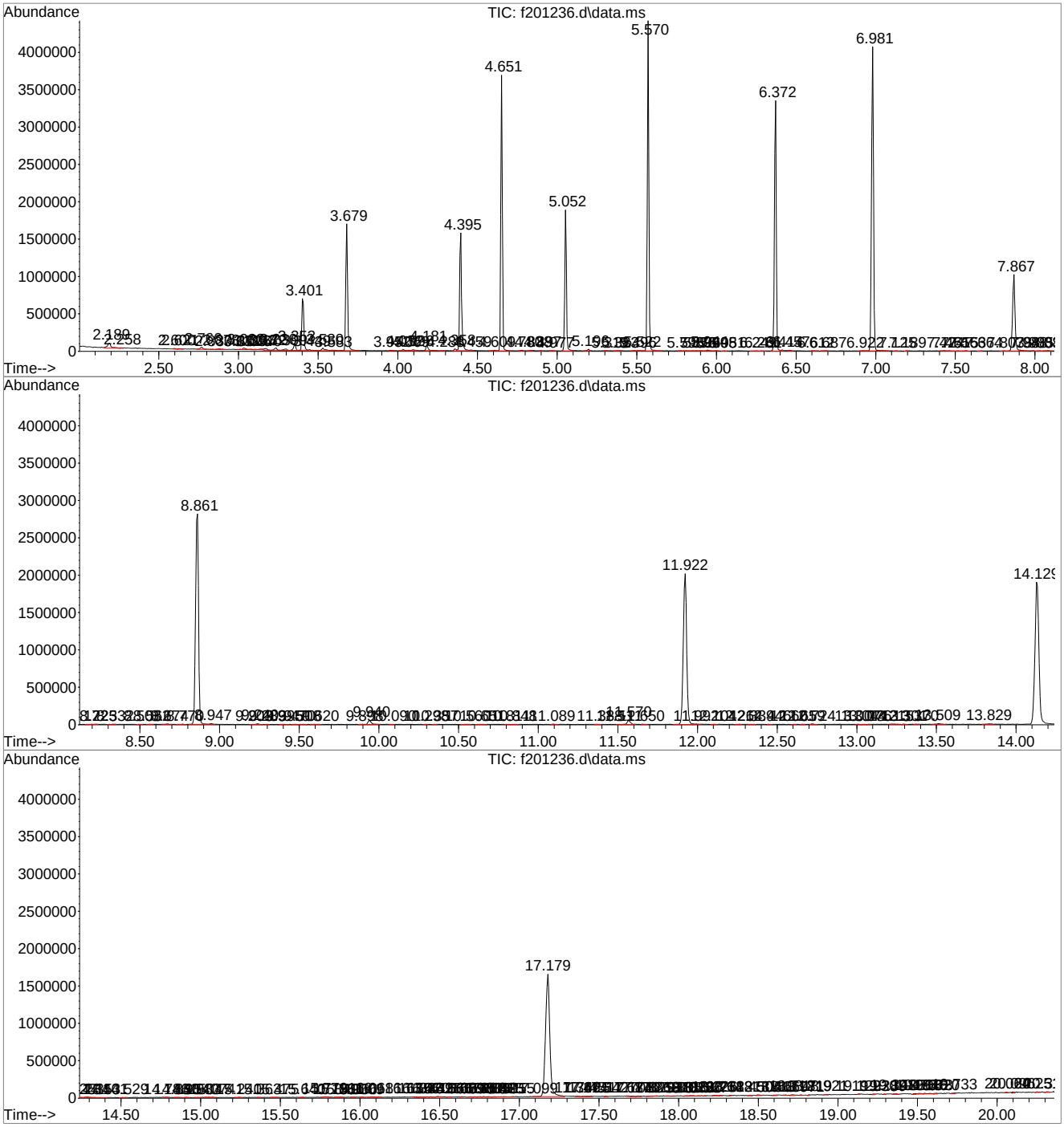
Sum of corrected areas: 32228344

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201236.d
Acq On : 18 Aug 2021 6:46 pm
Operator : kristis
Sample : jd29923-1
Misc : op34922,ef8807,11.3,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201236.d
Acq On : 18 Aug 2021 6:46 pm
Operator : kristis
Sample : jd29923-1
Misc : op34922,ef8807,11.3,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS

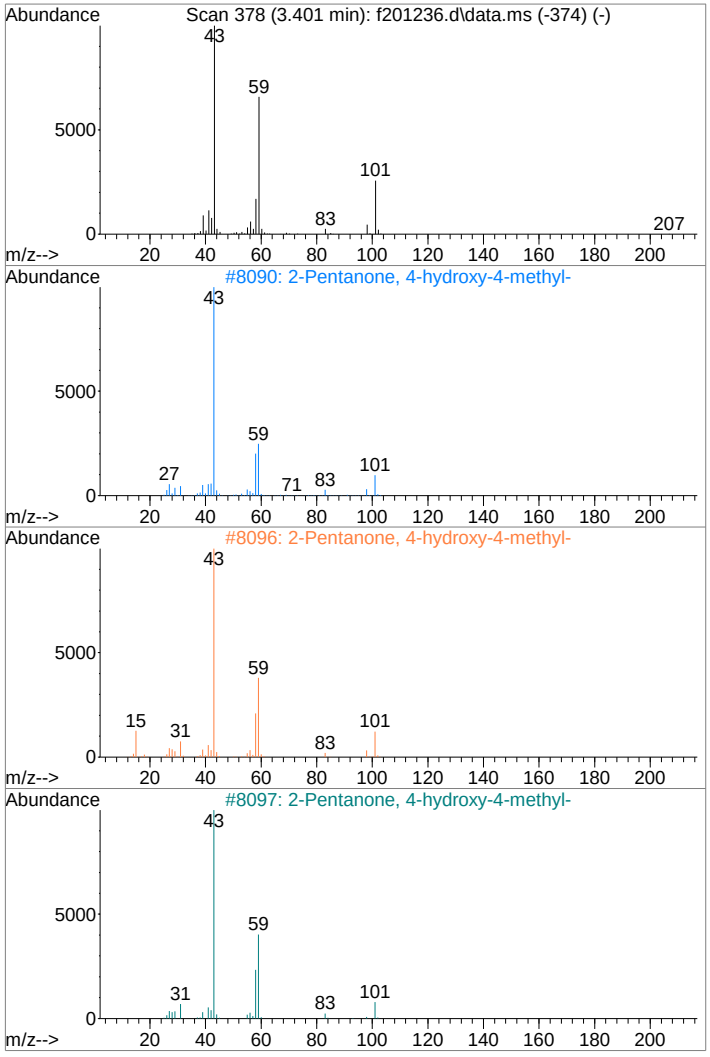
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P

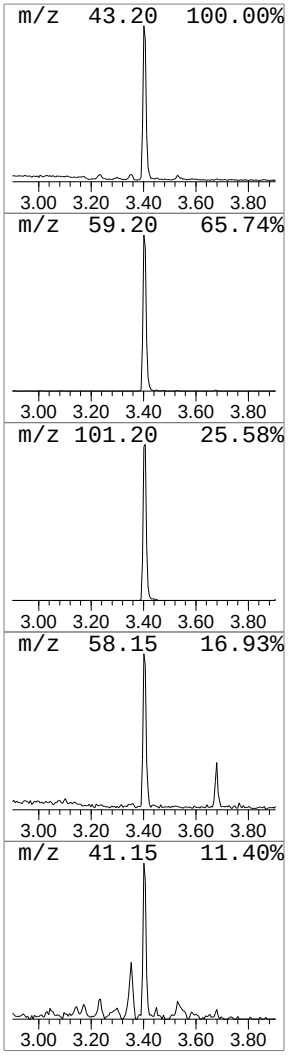
****

Peak Number 1 System artifact/aldol-conde... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.401	9.52 ppm	591870	1,4-Dichlorobenzene-d4b	4.651

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	40
4	(+-)-4-Amino-4,5-dihydro-2(3H)-f...	101	C4H7NO2	016504-58-8	37
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	25





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201236.d
Acq On : 18 Aug 2021 6:46 pm
Operator : kristis
Sample : jd29923-1
Misc : op34922,ef8807,11.3,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
System artifact...	3.401	9.5	ppm	591870	2	4.651	2486210	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201242.d
Acq On : 18 Aug 2021 10:12 pm
Operator : kristis
Sample : jd29923-2 Inst : GCMSF
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 02:02:21 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration

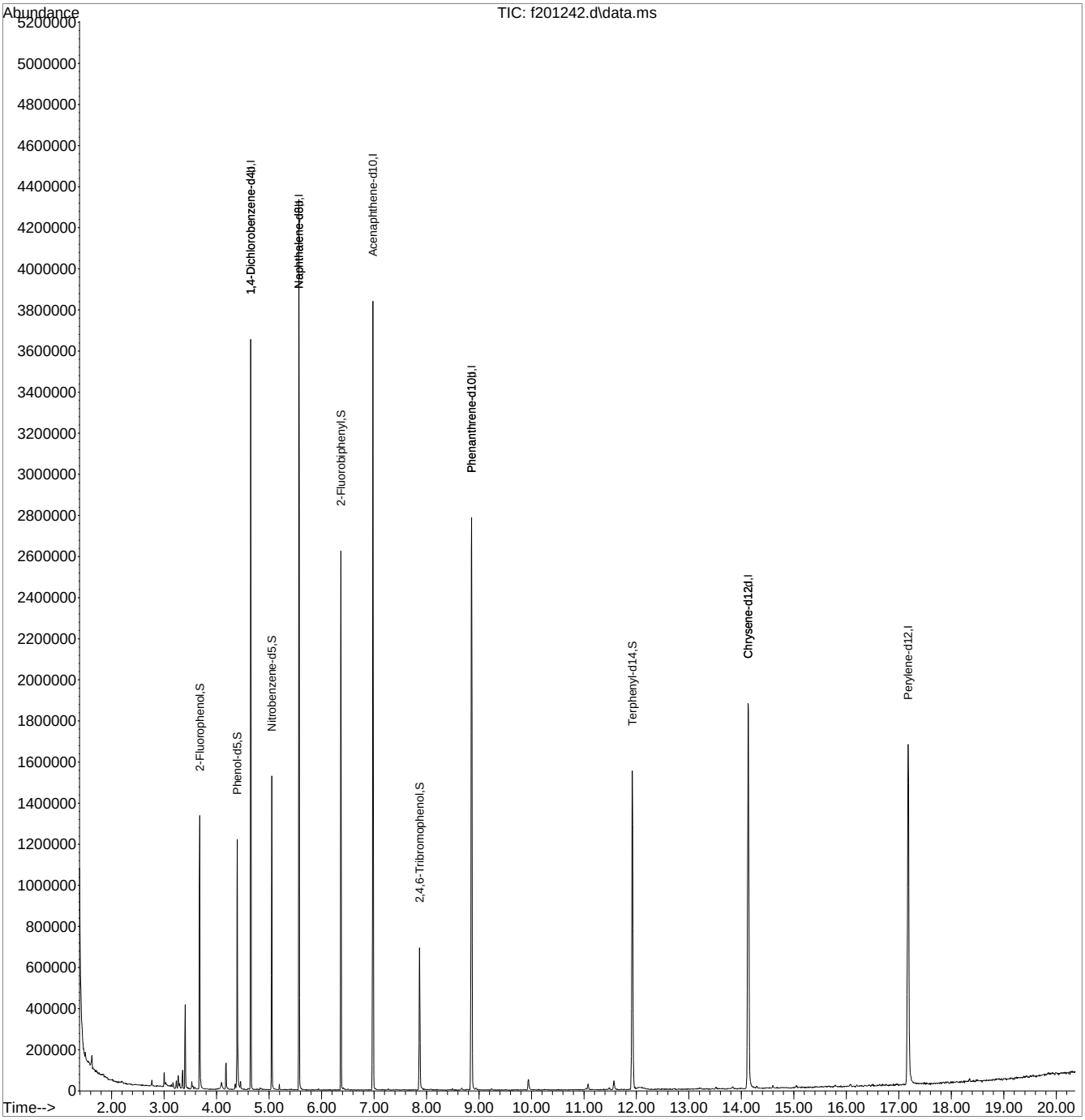
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.651	152	375893	40.00	ppm	0.00
24) Naphthalene-d8	5.570	136	1430617	40.00	ppm	0.00
46) Acenaphthene-d10	6.980	164	783728	40.00	ppm	0.00
69) Phenanthrene-d10	8.861	188	1362827	40.00	ppm	0.00
83) Chrysene-d12	14.128	240	1119639	40.00	ppm	-0.02
92) Perylene-d12	17.179	264	1079243	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4b	4.651	152	375893	40.00	ppm	0.00
104) Phenanthrene-d10b	8.861	188	1362827	40.00	ppm	0.00
106) Naphthalene-d8b	5.570	136	1430617	40.00	ppm	0.00
108) Chrysene-d12d	14.128	240	1119639	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.679	112	273706	23.78	ppm	0.00
Spiked Amount 50.000			Recovery = 47.56%			
8) Phenol-d5	4.395	99	343595	22.03	ppm	0.00
Spiked Amount 50.000			Recovery = 44.06%			
25) Nitrobenzene-d5	5.052	82	376193	27.22	ppm	0.00
Spiked Amount 50.000			Recovery = 54.44%			
51) 2-Fluorobiphenyl	6.371	172	670377	25.72	ppm	0.00
Spiked Amount 50.000			Recovery = 51.44%			
73) 2,4,6-Tribromophenol	7.867	330	87246	24.32	ppm	0.00
Spiked Amount 50.000			Recovery = 48.64%			
86) Terphenyl-d14	11.922	244	808787	30.28	ppm	0.00
Spiked Amount 50.000			Recovery = 60.56%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201242.d
Acq On : 18 Aug 2021 10:12 pm
Operator : kristis
Sample : jd29923-2 Inst : GCMSF
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 02:02:21 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201242.d
Acq On : 18 Aug 2021 10:12 pm
Operator : kristis
Sample : jd29923-2
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: f201242.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.135	140	141	145	rBV4	7725	7538	0.22%	0.025%
2	2.194	149	152	154	rBV3	9065	7655	0.22%	0.025%
3	2.423	191	195	196	rBV3	3056	4182	0.12%	0.014%
4	2.546	216	218	222	rVB3	5296	4570	0.13%	0.015%
5	2.594	225	227	229	rBV3	6114	4718	0.13%	0.016%
6	2.765	255	259	264	rVV	29583	29509	0.84%	0.098%
7	2.861	276	277	285	rBV8	6582	12905	0.37%	0.043%
8	3.000	300	303	307	rBV	70295	70372	2.01%	0.234%
9	3.032	307	309	317	rVB8	18694	26425	0.75%	0.088%
10	3.139	326	329	333	rVB4	10772	11266	0.32%	0.037%
11	3.171	333	335	342	rVB4	28699	28831	0.82%	0.096%
12	3.235	342	347	350	rVB	37995	35741	1.02%	0.119%
13	3.268	350	353	357	rBV	62909	63882	1.83%	0.212%
14	3.300	357	359	364	rVB5	24065	17924	0.51%	0.060%
15	3.353	364	369	373	rVB	90851	82786	2.37%	0.275%
16	3.401	373	378	384	rBV	409121	316263	9.04%	1.052%
17	3.444	384	386	389	rVB3	8844	7327	0.21%	0.024%
18	3.471	389	391	396	rVB4	6595	5360	0.15%	0.018%
19	3.529	396	402	409	rBV3	36878	49195	1.41%	0.164%
20	3.583	409	412	421	rVB3	10861	13746	0.39%	0.046%
21	3.679	421	430	448	rVB	1331480	1088811	31.11%	3.620%
22	3.919	472	475	479	rVB4	3927	5079	0.15%	0.017%
23	4.005	488	491	493	rVV2	5787	5670	0.16%	0.019%
24	4.031	493	496	499	rVV3	7458	8577	0.25%	0.029%
25	4.096	499	508	518	rVV3	36005	81562	2.33%	0.271%
26	4.181	518	524	536	rVV	129785	131033	3.74%	0.436%
27	4.272	538	541	544	rVV4	4375	5229	0.15%	0.017%
28	4.304	544	547	551	rVV4	2795	4696	0.13%	0.016%
29	4.357	551	557	559	rVV	28377	29525	0.84%	0.098%
30	4.395	559	564	573	rVV	1218735	1115717	31.87%	3.710%
31	4.453	573	575	583	rVV	41516	45449	1.30%	0.151%
32	4.534	587	590	592	rVB2	4246	4608	0.13%	0.015%
33	4.603	598	603	608	rBV6	7819	12588	0.36%	0.042%
34	4.651	608	612	622	rVV	3651913	2492494	71.21%	8.287%
35	4.833	642	646	652	rBV4	9550	14214	0.41%	0.047%
36	4.908	656	660	663	rVB3	3147	4935	0.14%	0.016%
37	5.052	680	687	698	rBV	1527173	1097595	31.36%	3.649%
38	5.196	711	714	721	rBV	27736	19921	0.57%	0.066%
39	5.394	747	751	754	rBV3	3751	4939	0.14%	0.016%
40	5.431	754	758	763	rVB4	5220	6861	0.20%	0.023%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201242.d
Acq On : 18 Aug 2021 10:12 pm
Operator : kristis
Sample : jd29923-2
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

41	5.570	778	784	795	rVV	4334021	3086290	88.17%	10.262%
42	5.634	795	796	801	rVB2	3692	4233	0.12%	0.014%
43	5.944	851	854	858	rVB4	7378	5476	0.16%	0.018%
44	6.029	867	870	873	rBV4	4963	5449	0.16%	0.018%
45	6.131	885	889	892	rBV3	4533	4158	0.12%	0.014%
46	6.158	892	894	901	rVB3	4751	4938	0.14%	0.016%
47	6.371	929	934	940	rBV	2623526	2044895	58.42%	6.799%
48	6.419	940	943	946	rVV4	10393	12782	0.37%	0.042%
49	6.451	947	949	953	rVB3	5113	5635	0.16%	0.019%
50	6.505	953	959	967	rVB6	6713	11124	0.32%	0.037%
51	6.692	989	994	998	rBV2	3717	5908	0.17%	0.020%
52	6.922	1033	1037	1042	rVB2	4679	6002	0.17%	0.020%
53	6.980	1042	1048	1068	rBV	3840215	3456652	98.75%	11.493%
54	7.274	1093	1103	1109	rVB5	7485	11137	0.32%	0.037%
55	7.461	1134	1138	1143	rVB2	3674	6253	0.18%	0.021%
56	7.744	1187	1191	1194	rBV2	4055	4558	0.13%	0.015%
57	7.787	1194	1199	1202	rVB2	3854	5334	0.15%	0.018%
58	7.867	1206	1214	1227	rBV	692783	795159	22.72%	2.644%
59	8.027	1240	1244	1248	rVB3	4003	5558	0.16%	0.018%
60	8.086	1251	1255	1259	rVB4	5049	8453	0.24%	0.028%
61	8.407	1311	1315	1321	rBV3	3385	6644	0.19%	0.022%
62	8.498	1327	1332	1338	rVB2	8605	12933	0.37%	0.043%
63	8.599	1346	1351	1352	rBV2	3141	4163	0.12%	0.014%
64	8.674	1356	1365	1375	rVB4	11727	26699	0.76%	0.089%
65	8.770	1379	1383	1386	rBV2	5955	8751	0.25%	0.029%
66	8.861	1393	1400	1412	rBV	2785255	3500356	100.00%	11.638%
67	8.941	1412	1415	1420	rVB4	9547	13473	0.38%	0.045%
68	9.240	1464	1471	1481	rBV3	8220	19536	0.56%	0.065%
69	9.940	1596	1602	1611	rBV4	53560	87372	2.50%	0.291%
70	10.047	1619	1622	1624	rBV2	3206	4412	0.13%	0.015%
71	10.202	1645	1651	1656	rBV4	3324	4729	0.14%	0.016%
72	10.250	1656	1660	1662	rVB3	4866	4586	0.13%	0.015%
73	10.309	1662	1671	1673	rBV5	3948	9125	0.26%	0.030%
74	10.501	1704	1707	1710	rVB3	4593	4545	0.13%	0.015%
75	10.763	1748	1756	1758	rBV4	4445	7723	0.22%	0.026%
76	10.955	1788	1792	1796	rVB5	3760	6756	0.19%	0.022%
77	11.040	1800	1808	1811	rVV6	7626	15397	0.44%	0.051%
78	11.078	1811	1815	1821	rVV2	28982	39986	1.14%	0.133%
79	11.345	1861	1865	1868	rBV2	3020	4774	0.14%	0.016%
80	11.377	1868	1871	1876	rVV4	5256	6445	0.18%	0.021%
81	11.420	1876	1879	1885	rVV4	4130	8620	0.25%	0.029%
82	11.489	1885	1892	1897	rVV2	10361	18387	0.53%	0.061%
83	11.569	1900	1907	1917	rVV6	44380	76463	2.18%	0.254%
84	11.628	1917	1918	1923	rVB3	5397	4073	0.12%	0.014%
85	11.767	1940	1944	1948	rBV4	3873	4912	0.14%	0.016%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201242.d
Acq On : 18 Aug 2021 10:12 pm
Operator : kristis
Sample : jd29923-2
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

86	11.922	1966	1973	1984	rBV	1552334	2251825	64.33%	7.487%
87	11.991	1984	1986	1989	rBV3	4860	5243	0.15%	0.017%
88	12.034	1989	1994	1995	rBV5	5946	8189	0.23%	0.027%
89	12.072	1996	2001	2004	rVB5	2816	6518	0.19%	0.022%
90	12.184	2020	2022	2026	rVB4	4101	4260	0.12%	0.014%
91	12.221	2026	2029	2037	rVB6	6081	11387	0.33%	0.038%
92	12.280	2037	2040	2042	rBV3	5070	4449	0.13%	0.015%
93	12.413	2060	2065	2068	rBV5	5921	7067	0.20%	0.023%
94	12.488	2076	2079	2081	rBV3	5984	6471	0.18%	0.022%
95	12.526	2085	2086	2089	rVV2	5805	4065	0.12%	0.014%
96	12.563	2092	2093	2099	rVV2	4555	6020	0.17%	0.020%
97	12.723	2114	2123	2129	rBV7	6483	16568	0.47%	0.055%
98	12.809	2136	2139	2143	rVB3	3721	4317	0.12%	0.014%
99	12.942	2162	2164	2167	rVB2	5480	5354	0.15%	0.018%
100	12.980	2167	2171	2178	rBV5	6267	12821	0.37%	0.043%
101	13.113	2191	2196	2199	rBV5	3475	5260	0.15%	0.017%
102	13.199	2207	2212	2215	rBV4	7895	8601	0.25%	0.029%
103	13.231	2216	2218	2222	rVB3	6400	7485	0.21%	0.025%
104	13.343	2234	2239	2244	rVB6	6618	11701	0.33%	0.039%
105	13.386	2244	2247	2249	rBV4	6151	5498	0.16%	0.018%
106	13.461	2256	2261	2266	rVV7	4918	8937	0.26%	0.030%
107	13.514	2266	2271	2278	rVB6	11450	21086	0.60%	0.070%
108	13.658	2297	2298	2305	rVB5	4573	6057	0.17%	0.020%
109	13.738	2311	2313	2317	rBV3	4911	6872	0.20%	0.023%
110	13.840	2327	2332	2338	rVB5	12063	22039	0.63%	0.073%
111	13.877	2338	2339	2347	rVB7	5210	9734	0.28%	0.032%
112	14.048	2366	2371	2372	rVB2	3423	4416	0.13%	0.015%
113	14.070	2372	2375	2377	rBV4	3661	4868	0.14%	0.016%
114	14.128	2377	2386	2404	rVV	1875958	3218263	91.94%	10.700%
115	14.235	2405	2406	2411	rVV5	9346	10210	0.29%	0.034%
116	14.294	2413	2417	2422	rVB5	11517	16146	0.46%	0.054%
117	14.379	2430	2433	2437	rVB6	3656	5602	0.16%	0.019%
118	14.465	2445	2449	2450	rBV3	5868	5796	0.17%	0.019%
119	14.540	2460	2463	2468	rBV5	4798	4221	0.12%	0.014%
120	14.598	2468	2474	2481	rBV7	14368	19399	0.55%	0.064%
121	14.684	2489	2490	2494	rBV4	5803	5116	0.15%	0.017%
122	14.743	2497	2501	2502	rBV3	4800	6130	0.18%	0.020%
123	14.769	2505	2506	2512	rVB6	3487	4928	0.14%	0.016%
124	14.866	2520	2524	2526	rVB4	5349	6216	0.18%	0.021%
125	14.892	2526	2529	2532	rVB4	4355	5084	0.15%	0.017%
126	14.930	2533	2536	2541	rVB5	4252	5631	0.16%	0.019%
127	14.967	2541	2543	2545	rBV2	4113	4690	0.13%	0.016%
128	15.047	2550	2558	2563	rVV10	13430	22216	0.63%	0.074%
129	15.111	2568	2570	2575	rVB5	6857	12086	0.35%	0.040%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201242.d
Acq On : 18 Aug 2021 10:12 pm
Operator : kristis
Sample : jd29923-2
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

130	15.159	2575	2579	2581	rBV4	8369	10957	0.31%	0.036%
131	15.223	2588	2591	2594	rBV4	5653	6158	0.18%	0.020%
132	15.250	2594	2596	2599	rBV4	5149	5641	0.16%	0.019%
133	15.293	2601	2604	2605	rBV3	4881	4814	0.14%	0.016%
134	15.314	2605	2608	2614	rVB7	5771	9190	0.26%	0.031%
135	15.400	2621	2624	2629	rBV5	6958	9541	0.27%	0.032%
136	15.496	2641	2642	2648	rVB6	5166	7264	0.21%	0.024%
137	15.533	2648	2649	2654	rVB4	6257	6748	0.19%	0.022%
138	15.603	2659	2662	2667	rVB6	6032	7797	0.22%	0.026%
139	15.667	2671	2674	2680	rVB7	9636	13870	0.40%	0.046%
140	15.704	2680	2681	2687	rBV5	6747	10652	0.30%	0.035%
141	15.790	2690	2697	2699	rBV7	11506	20374	0.58%	0.068%
142	15.897	2712	2717	2720	rVB6	5942	5750	0.16%	0.019%
143	15.939	2722	2725	2729	rBV6	5582	7766	0.22%	0.026%
144	15.977	2729	2732	2735	rBV4	5132	6940	0.20%	0.023%
145	16.019	2739	2740	2744	rBV4	4249	5159	0.15%	0.017%
146	16.073	2746	2750	2758	rVB8	13205	23742	0.68%	0.079%
147	16.137	2758	2762	2764	rBV4	4684	4831	0.14%	0.016%
148	16.164	2764	2767	2768	rVB3	7089	4974	0.14%	0.017%
149	16.196	2770	2773	2777	rBV6	7659	7720	0.22%	0.026%
150	16.287	2786	2790	2791	rVB4	5848	5430	0.16%	0.018%
151	16.303	2791	2793	2796	rVB4	6924	6789	0.19%	0.023%
152	16.351	2798	2802	2807	rBV6	7005	12320	0.35%	0.041%
153	16.420	2811	2815	2816	rBV4	5684	5305	0.15%	0.018%
154	16.500	2823	2830	2836	rBV8	11833	24855	0.71%	0.083%
155	16.634	2852	2855	2861	rVB6	10166	13105	0.37%	0.044%
156	16.730	2871	2873	2875	rVB3	5148	4313	0.12%	0.014%
157	16.762	2875	2879	2881	rBV5	8080	10982	0.31%	0.037%
158	16.831	2889	2892	2893	rBV3	6732	5233	0.15%	0.017%
159	16.890	2899	2903	2905	rVB4	9262	8260	0.24%	0.027%
160	16.944	2908	2913	2915	rBV5	7193	6609	0.19%	0.022%
161	17.029	2925	2929	2932	rBV6	7375	10930	0.31%	0.036%
162	17.083	2933	2939	2941	rVV7	5859	8730	0.25%	0.029%
163	17.179	2946	2957	2979	rBV2	1656913	3127735	89.35%	10.399%
164	17.398	2996	2998	3003	rVB5	5009	8187	0.23%	0.027%
165	17.478	3011	3013	3014	rVB2	9600	4677	0.13%	0.016%
166	17.521	3019	3021	3022	rBV2	9537	5531	0.16%	0.018%
167	17.537	3023	3024	3032	rVB8	8205	11395	0.33%	0.038%
168	17.595	3032	3035	3037	rVB4	9866	9848	0.28%	0.033%
169	17.627	3037	3041	3046	rBV7	10349	21605	0.62%	0.072%
170	17.665	3046	3048	3054	rVB6	6364	9414	0.27%	0.031%
171	17.724	3054	3059	3062	rBV6	6612	10980	0.31%	0.037%
172	17.798	3068	3073	3075	rVB6	9237	14096	0.40%	0.047%
173	17.830	3075	3079	3081	rBV5	10769	15053	0.43%	0.050%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201242.d
Acq On : 18 Aug 2021 10:12 pm
Operator : kristis
Sample : jd29923-2
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

174	17.895	3087	3091	3094	rBV6	10009	11887	0.34%	0.040%
175	17.921	3095	3096	3103	rVB6	10262	14061	0.40%	0.047%
176	17.996	3108	3110	3114	rBV4	8927	9621	0.27%	0.032%
177	18.023	3114	3115	3117	rVB2	9262	5183	0.15%	0.017%
178	18.039	3117	3118	3121	rBV3	7079	7416	0.21%	0.025%
179	18.156	3139	3140	3142	rVB2	7161	4450	0.13%	0.015%
180	18.188	3143	3146	3148	rVB4	7754	7013	0.20%	0.023%
181	18.231	3153	3154	3158	rVB4	10721	9815	0.28%	0.033%
182	18.258	3158	3159	3161	rBV2	10876	7090	0.20%	0.024%
183	18.349	3171	3176	3180	rVB8	15705	17941	0.51%	0.060%
184	18.472	3198	3199	3201	rBV2	9338	6314	0.18%	0.021%
185	18.493	3201	3203	3205	rVB3	9092	7752	0.22%	0.026%
186	18.632	3220	3229	3234	rBV3	10856	35988	1.03%	0.120%
187	18.664	3234	3235	3237	rBV2	8600	4955	0.14%	0.016%
188	18.792	3258	3259	3265	rVB6	7641	8770	0.25%	0.029%
189	18.835	3265	3267	3268	rBV2	6853	4337	0.12%	0.014%
190	18.958	3287	3290	3294	rVB6	9425	11051	0.32%	0.037%
191	18.995	3294	3297	3299	rBV4	9488	11265	0.32%	0.037%
192	19.187	3331	3333	3337	rBV5	8917	11009	0.31%	0.037%
193	19.219	3337	3339	3342	rBV4	12898	13883	0.40%	0.046%
194	19.273	3348	3349	3355	rVB5	5999	8528	0.24%	0.028%
195	19.508	3389	3393	3395	rBV5	11456	12965	0.37%	0.043%
196	19.556	3398	3402	3403	rVB4	8305	8703	0.25%	0.029%
197	19.674	3414	3424	3425	rBV9	11185	26253	0.75%	0.087%
198	19.999	3480	3485	3488	rBV7	11801	25000	0.71%	0.083%
199	20.256	3529	3533	3534	rVB4	15772	16552	0.47%	0.055%
200	20.283	3534	3538	3540	rBV5	17586	27634	0.79%	0.092%

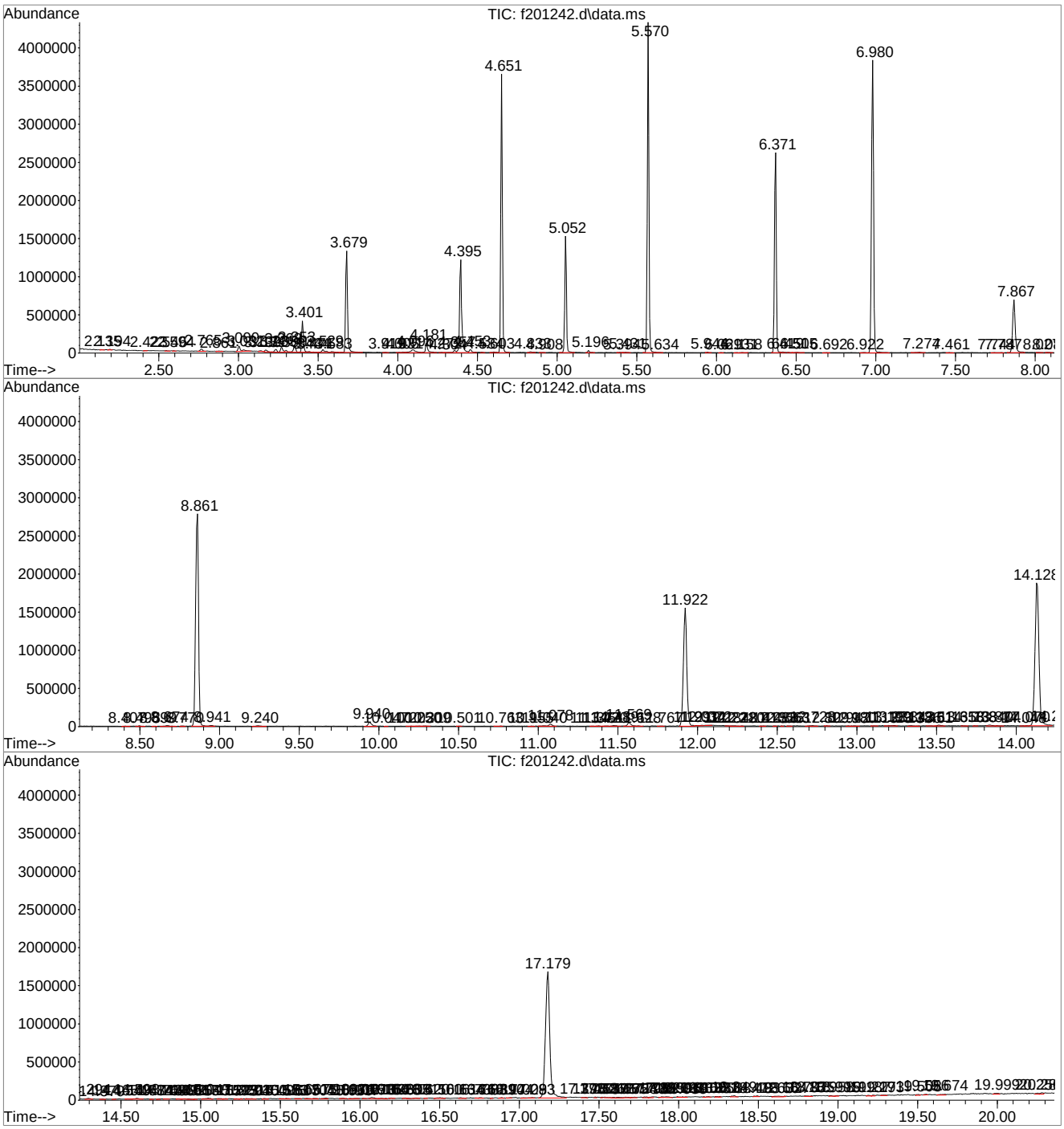
Sum of corrected areas: 30076100

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201242.d
Acq On : 18 Aug 2021 10:12 pm
Operator : kristis
Sample : jd29923-2
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

```
Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201242.d
Acq On    : 18 Aug 2021  10:12 pm
Operator  : kristis
Sample    : jd29923-2
Misc      : op34922,ef8807,30.0,,,1,1
ALS Vial  : 15   Sample Multiplier: 1

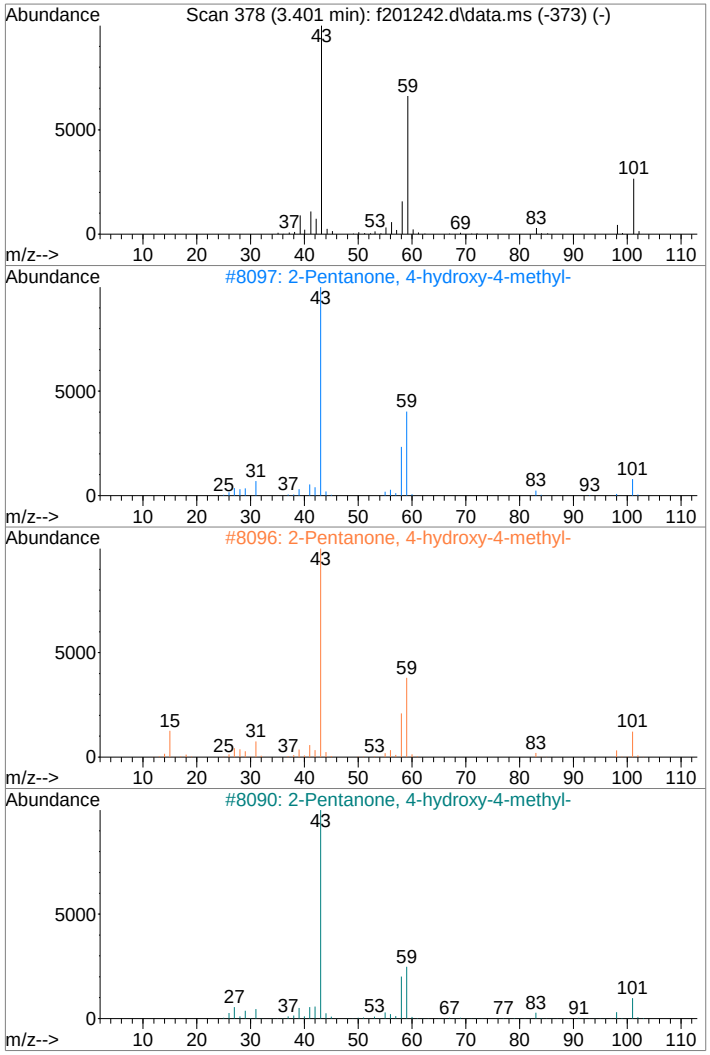
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title  : Semi Volatile Extractables by GC/MS

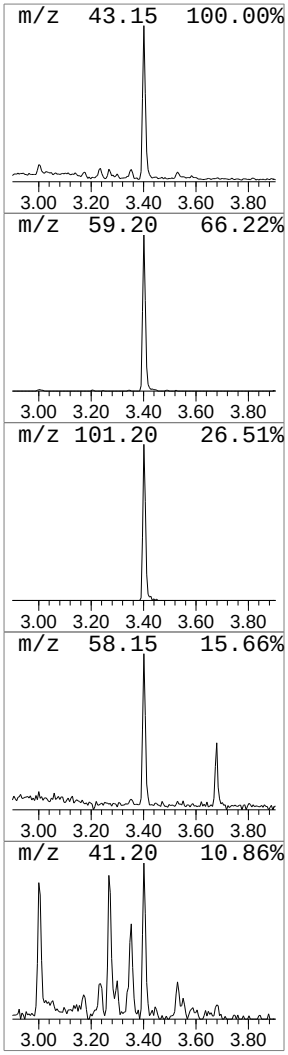
TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P

**********************************************************************
Peak Number  1  System artifact/aldol-conde...  Concentration Rank  1
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.401	5.08 ppm	316263	1,4-Dichlorobenzene-d4b	4.651

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	38
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	25
5	3-Hydroxy-3-methyl-2-butanone	102	C5H10O2	000115-22-0	17





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201242.d
Acq On : 18 Aug 2021 10:12 pm
Operator : kristis
Sample : jd29923-2
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
System artifact...	3.401	5.1	ppm	316263	2	4.651	2492490	40.0

9.1.4

9

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201243.d
Acq On : 18 Aug 2021 10:39 pm
Operator : kristis
Sample : jd29923-3 Inst : GCMSF
Misc : op34922,ef8807,30.1,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 02:06:05 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration

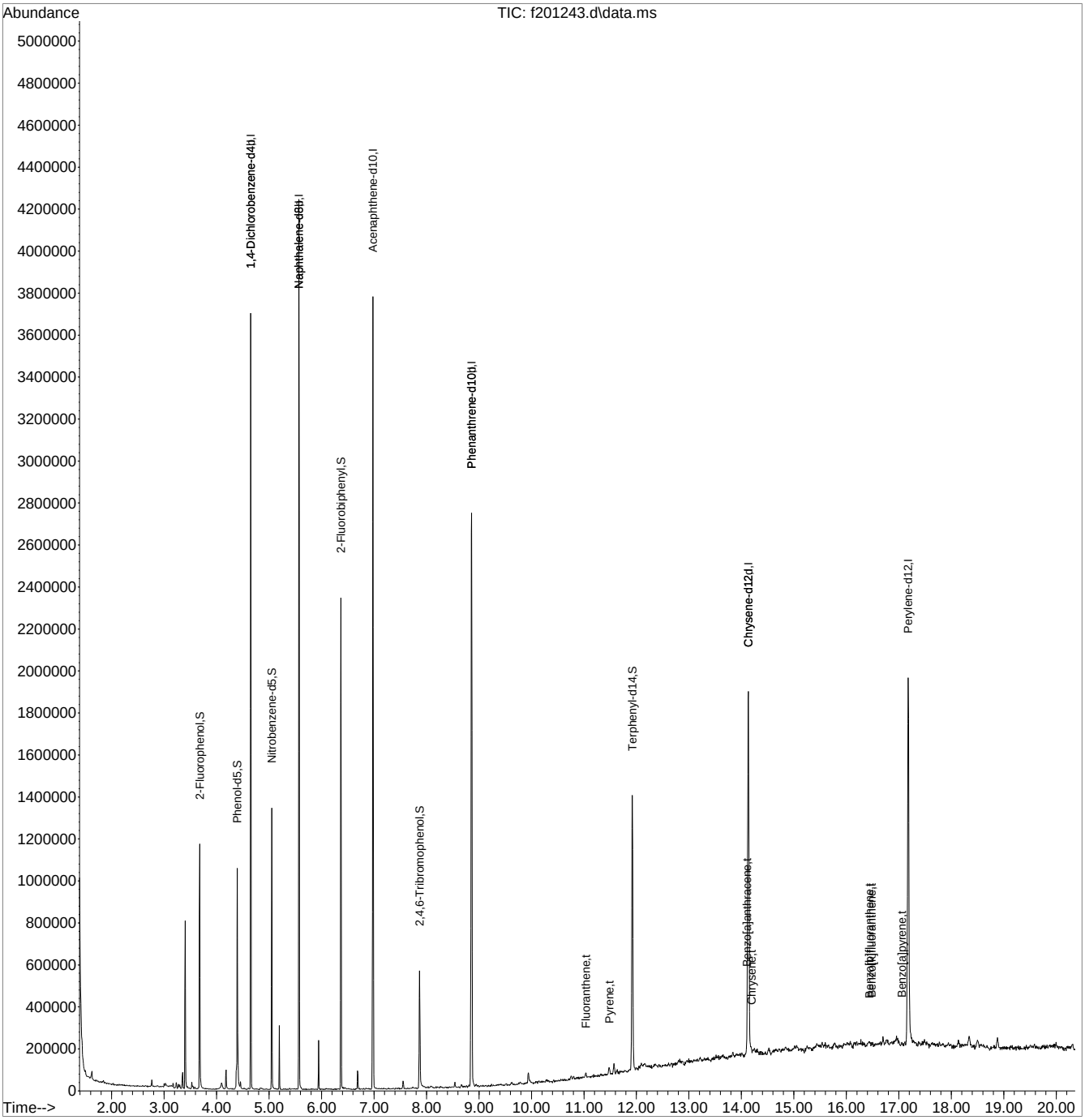
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.651	152	369547	40.00	ppm	0.00
24) Naphthalene-d8	5.570	136	1365009	40.00	ppm	0.00
46) Acenaphthene-d10	6.980	164	747489	40.00	ppm	0.00
69) Phenanthrene-d10	8.861	188	1336181	40.00	ppm	0.00
83) Chrysene-d12	14.134	240	1076393	40.00	ppm	-0.01
92) Perylene-d12	17.179	264	1061094	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4b	4.651	152	369547	40.00	ppm	0.00
104) Phenanthrene-d10b	8.861	188	1336181	40.00	ppm	0.00
106) Naphthalene-d8b	5.570	136	1365009	40.00	ppm	0.00
108) Chrysene-d12d	14.134	240	1076393	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.679	112	236515	20.91	ppm	0.00
Spiked Amount 50.000			Recovery = 41.82%			
8) Phenol-d5	4.395	99	305695	19.93	ppm	0.00
Spiked Amount 50.000			Recovery = 39.86%			
25) Nitrobenzene-d5	5.052	82	334448	25.36	ppm	0.00
Spiked Amount 50.000			Recovery = 50.72%			
51) 2-Fluorobiphenyl	6.371	172	590942	23.77	ppm	0.00
Spiked Amount 50.000			Recovery = 47.54%			
73) 2,4,6-Tribromophenol	7.867	330	72450	20.60	ppm	0.00
Spiked Amount 50.000			Recovery = 41.20%			
86) Terphenyl-d14	11.922	244	679342	26.46	ppm	0.00
Spiked Amount 50.000			Recovery = 52.92%			
Target Compounds						Qvalue
81) Fluoranthene	11.035	202	14078	0.38	ppm	86
85) Pyrene	11.484	202	16439	0.49	ppm	94
88) Benzo[a]anthracene	14.107	228	9768	0.31	ppm	87
90) Chrysene	14.192	228	8507	0.27	ppm	88
94) Benzo[b]fluoranthene	16.436	252	8382	0.27	ppm	87
95) Benzo[k]fluoranthene	16.479	252	4257	0.14	ppm	73
96) Benzo[a]pyrene	17.056	252	6357	0.23	ppm	68

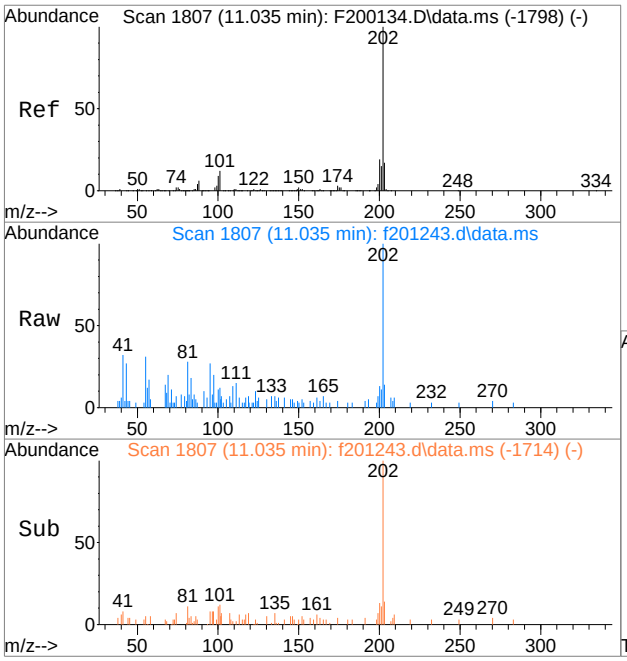
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201243.d
Acq On : 18 Aug 2021 10:39 pm
Operator : kristis
Sample : jd29923-3 Inst : GCMSF
Misc : op34922,ef8807,30.1,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 02:06:05 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration

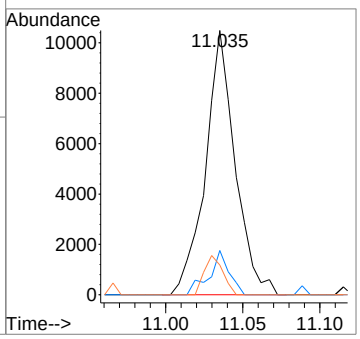


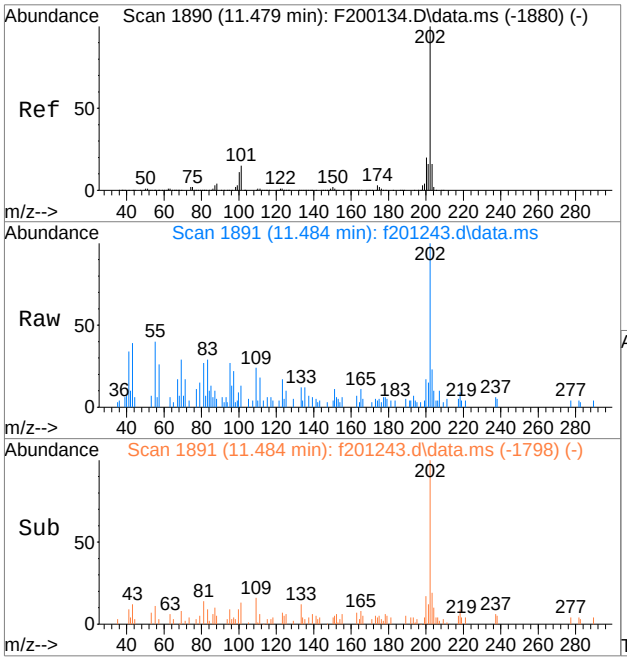


#81
Fluoranthene
Concen: 0.38 ppm
RT: 11.035 min Scan# 1807
Delta R.T. -0.005 min
Lab File: f201243.d
Acq: 18 Aug 2021 10:39 pm

Tgt Ion:202 Resp: 14078

Ion	Ratio	Lower	Upper
202	100		
101	16.8	0.0	40.3
100	11.2	0.0	37.8

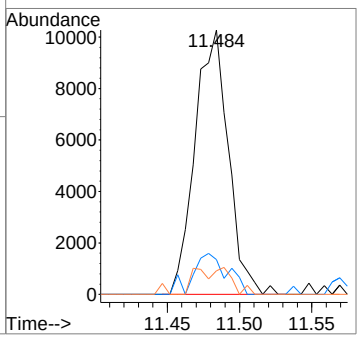


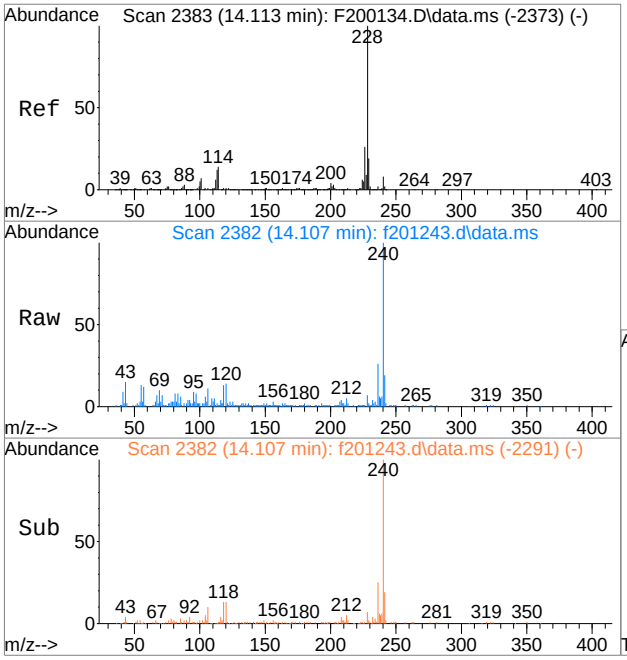


#85
Pyrene
Concen: 0.49 ppm
RT: 11.484 min Scan# 1891
Delta R.T. -0.005 min
Lab File: f201243.d
Acq: 18 Aug 2021 10:39 pm

Tgt Ion:202 Resp: 16439

Ion	Ratio	Lower	Upper
202	100		
101	13.2	0.0	41.2
100	6.8	0.0	39.1

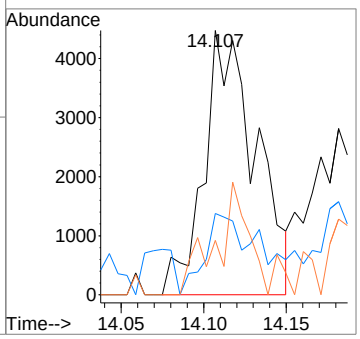


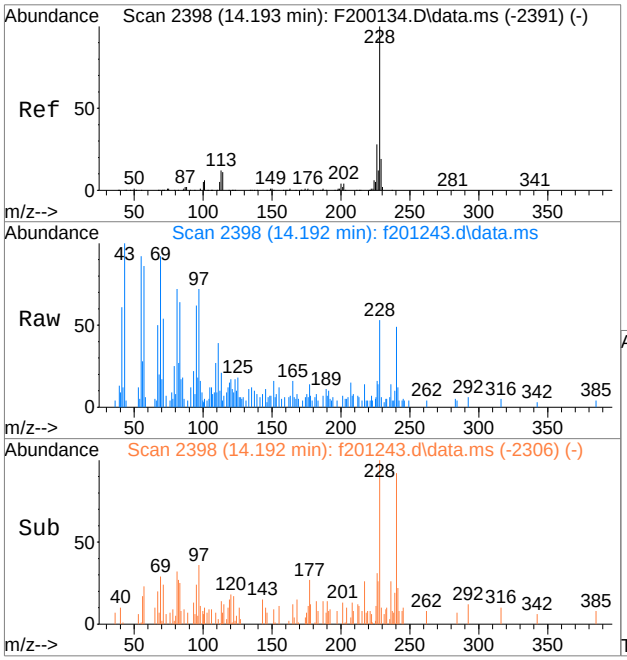


#88
Benzo[a]anthracene
Concen: 0.31 ppm
RT: 14.107 min Scan# 2382
Delta R.T. -0.016 min
Lab File: f201243.d
Acq: 18 Aug 2021 10:39 pm

Tgt Ion:228 Resp: 9768

Ion	Ratio	Lower	Upper
228	100		
229	13.1	0.0	49.7
226	18.6	0.0	54.7

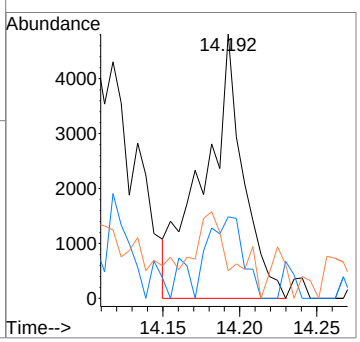


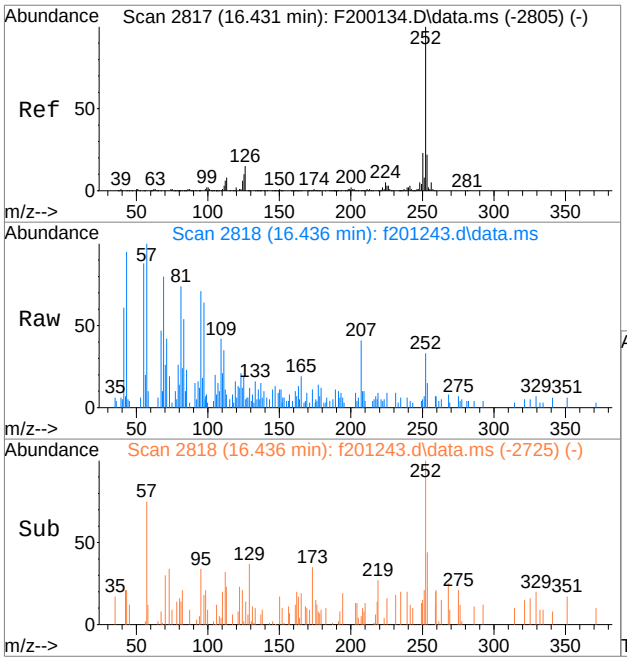


#90
Chrysene
Concen: 0.27 ppm
RT: 14.192 min Scan# 2398
Delta R.T. -0.011 min
Lab File: f201243.d
Acq: 18 Aug 2021 10:39 pm

Tgt Ion:228 Resp: 8507

Ion	Ratio	Lower	Upper
228	100		
226	27.6	0.0	57.1
229	31.3	0.0	48.8

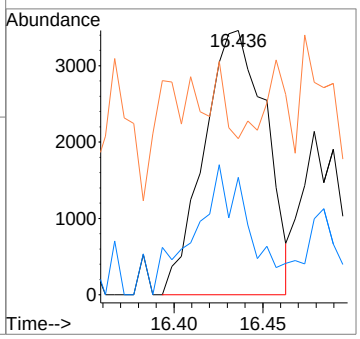


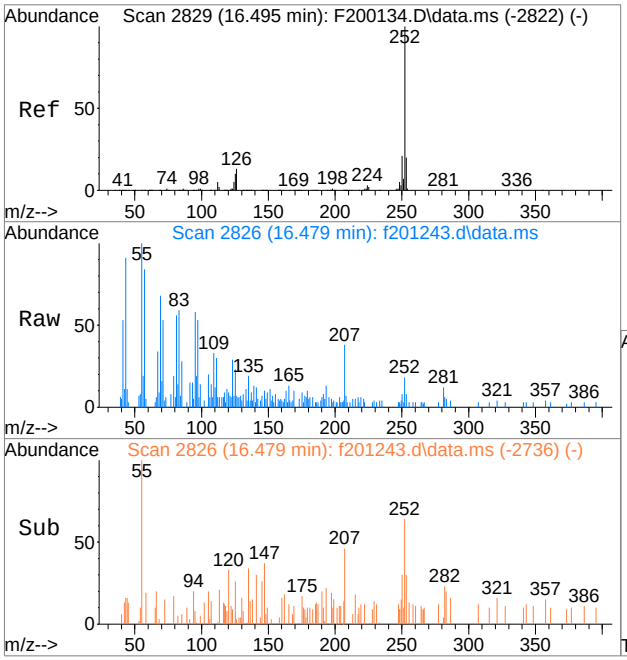


#94
Benzo[b]fluoranthene
Concen: 0.27 ppm
RT: 16.436 min Scan# 2818
Delta R.T. -0.005 min
Lab File: f201243.d
Acq: 18 Aug 2021 10:39 pm

Tgt Ion:252 Resp: 8382

Ion	Ratio	Lower	Upper
252	100		
253	26.2	0.0	52.2
125	0.0	0.0	39.3

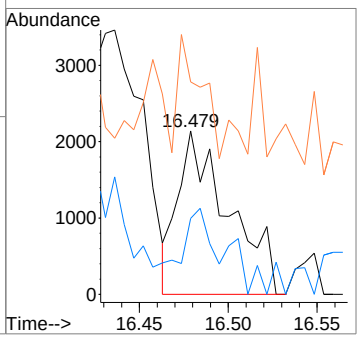


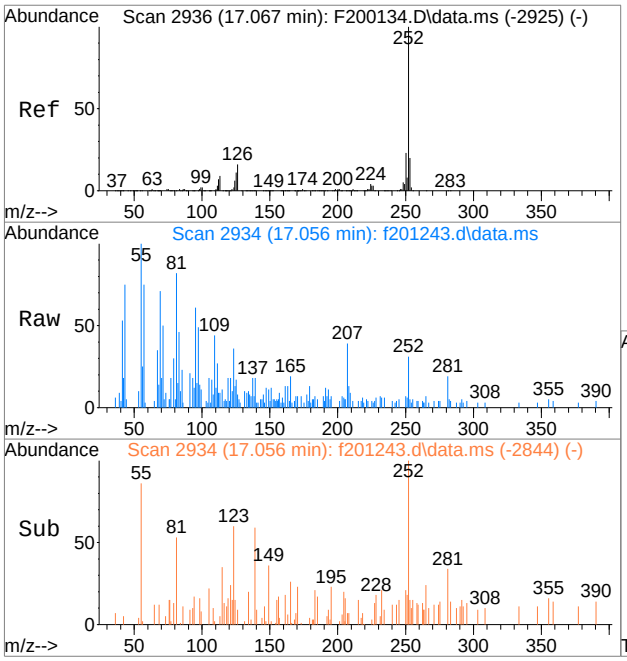


#95
Benzo[k]fluoranthene
Concen: 0.14 ppm
RT: 16.479 min Scan# 2826
Delta R.T. -0.021 min
Lab File: f201243.d
Acq: 18 Aug 2021 10:39 pm

Tgt Ion:252 Resp: 4257

Ion	Ratio	Lower	Upper
252	100		
253	32.4	0.0	50.3
125	19.8	0.0	38.9

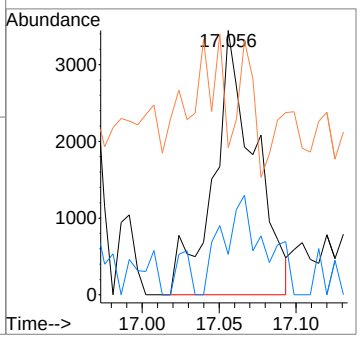




#96
Benzo[a]pyrene
Concen: 0.23 ppm
RT: 17.056 min Scan# 2934
Delta R.T. -0.021 min
Lab File: f201243.d
Acq: 18 Aug 2021 10:39 pm

Tgt Ion:252 Resp: 6357

Ion	Ratio	Lower	Upper
252	100		
253	5.6	0.0	51.6
125	0.0	0.0	39.6



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201243.d
Acq On : 18 Aug 2021 10:39 pm
Operator : kristis
Sample : jd29923-3
Misc : op34922,ef8807,30.1,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: f201243.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.028	118	121	123	rVB3	9345	9129	0.27%	0.031%
2	2.049	123	125	127	rBV3	5503	4387	0.13%	0.015%
3	2.146	140	143	146	rBV5	6325	5052	0.15%	0.017%
4	2.194	149	152	154	rVB4	4841	4007	0.12%	0.014%
5	2.295	168	171	174	rVV5	4034	4320	0.13%	0.015%
6	2.343	178	180	184	rVB4	5887	4479	0.13%	0.015%
7	2.589	223	226	230	rBV5	5560	7104	0.21%	0.024%
8	2.648	233	237	241	rVB5	5548	6916	0.20%	0.023%
9	2.696	244	246	250	rBV4	5404	6985	0.20%	0.024%
10	2.765	254	259	263	rBV2	33109	31719	0.93%	0.107%
11	2.872	274	279	287	rVB9	6618	15896	0.46%	0.054%
12	2.974	295	298	301	rVB4	3708	4055	0.12%	0.014%
13	3.000	301	303	306	rBV4	16348	17068	0.50%	0.058%
14	3.027	306	308	315	rVV6	16365	21700	0.63%	0.073%
15	3.102	319	322	324	rBV3	6006	5827	0.17%	0.020%
16	3.171	333	335	341	rVB2	24478	22156	0.65%	0.075%
17	3.235	341	347	350	rVB	29609	36086	1.05%	0.122%
18	3.273	350	354	357	rBV4	22280	25159	0.73%	0.085%
19	3.300	357	359	364	rVB3	17647	15505	0.45%	0.052%
20	3.353	364	369	374	rBV	78054	74301	2.17%	0.251%
21	3.401	374	378	385	rBV	797218	609883	17.81%	2.061%
22	3.481	391	393	398	rVB5	5491	4558	0.13%	0.015%
23	3.529	398	402	409	rVV4	32696	39133	1.14%	0.132%
24	3.583	409	412	419	rVB5	10317	12844	0.38%	0.043%
25	3.679	419	430	441	rBV	1167414	959922	28.03%	3.244%
26	3.748	441	443	447	rVV4	3837	5195	0.15%	0.018%
27	3.791	448	451	452	rVB3	4280	3337	0.10%	0.011%
28	3.818	452	456	457	rBV2	3775	4649	0.14%	0.016%
29	3.887	468	469	476	rVB3	2778	3499	0.10%	0.012%
30	3.946	476	480	484	rBV5	2955	3608	0.11%	0.012%
31	4.010	488	492	495	rBV5	4995	5591	0.16%	0.019%
32	4.096	498	508	517	rVV4	30449	70751	2.07%	0.239%
33	4.181	519	524	535	rVB	91256	79924	2.33%	0.270%
34	4.395	551	564	573	rBV	1053412	1052715	30.74%	3.557%
35	4.454	573	575	586	rVV	36280	40239	1.17%	0.136%
36	4.523	586	588	598	rVB7	7081	11870	0.35%	0.040%
37	4.603	598	603	608	rBV5	8237	13583	0.40%	0.046%
38	4.651	608	612	625	rVB	3697276	2441985	71.30%	8.252%
39	4.763	631	633	640	rVB3	3698	4876	0.14%	0.016%
40	4.843	643	648	650	rBV3	9242	15288	0.45%	0.052%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201243.d
Acq On : 18 Aug 2021 10:39 pm
Operator : kristis
Sample : jd29923-3
Misc : op34922,ef8807,30.1,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

41	4.945	663	667	671	rBV3	3717	4075	0.12%	0.014%
42	5.052	679	687	696	rBV	1341028	975476	28.48%	3.296%
43	5.116	698	699	703	rVB3	5178	4766	0.14%	0.016%
44	5.196	708	714	722	rVB	304907	196421	5.73%	0.664%
45	5.282	725	730	733	rBV3	5415	4388	0.13%	0.015%
46	5.319	733	737	739	rVB2	6213	4771	0.14%	0.016%
47	5.351	739	743	746	rBV2	4033	3670	0.11%	0.012%
48	5.394	746	751	755	rBV4	6946	8933	0.26%	0.030%
49	5.436	755	759	760	rBV	3659	4511	0.13%	0.015%
50	5.522	774	775	779	rBV4	4443	3495	0.10%	0.012%
51	5.570	779	784	797	rVB	4240210	2985188	87.16%	10.087%
52	5.656	797	800	804	rVB3	3415	3192	0.09%	0.011%
53	5.693	804	807	809	rVB3	5126	6016	0.18%	0.020%
54	5.720	809	812	815	rBV4	5538	6778	0.20%	0.023%
55	5.794	822	826	828	rBV4	3917	3711	0.11%	0.013%
56	5.816	828	830	834	rVV	5273	3912	0.11%	0.013%
57	5.944	849	854	860	rBV	235092	153715	4.49%	0.519%
58	5.997	860	864	868	rBV5	4200	6461	0.19%	0.022%
59	6.088	877	881	883	rBV3	6267	6277	0.18%	0.021%
60	6.142	888	891	892	rVV3	3771	3282	0.10%	0.011%
61	6.238	908	909	911	rBV	4519	3495	0.10%	0.012%
62	6.329	919	926	928	rBV6	4092	6895	0.20%	0.023%
63	6.371	928	934	940	rBV	2342203	1811954	52.90%	6.123%
64	6.409	940	941	944	rVV3	11344	8055	0.24%	0.027%
65	6.452	944	949	954	rVB6	8055	16605	0.48%	0.056%
66	6.500	954	958	962	rBV5	4059	5603	0.16%	0.019%
67	6.601	973	977	980	rBV4	3359	3788	0.11%	0.013%
68	6.660	984	988	990	rBV3	5334	6188	0.18%	0.021%
69	6.687	990	993	998	rVV	88607	78396	2.29%	0.265%
70	6.719	998	999	1002	rVB3	7144	5941	0.17%	0.020%
71	6.740	1002	1003	1006	rBV3	4012	4420	0.13%	0.015%
72	6.767	1006	1008	1011	rVB3	3359	3129	0.09%	0.011%
73	6.804	1011	1015	1019	rVB4	5822	5086	0.15%	0.017%
74	6.847	1019	1023	1028	rBV7	6448	10119	0.30%	0.034%
75	6.895	1028	1032	1035	rVB5	5768	6733	0.20%	0.023%
76	6.922	1035	1037	1040	rVB3	5567	5979	0.17%	0.020%
77	6.980	1040	1048	1057	rBV	3777129	3310151	96.65%	11.185%
78	7.093	1068	1069	1076	rVB5	4122	5930	0.17%	0.020%
79	7.141	1076	1078	1081	rVB3	4681	3853	0.11%	0.013%
80	7.183	1085	1086	1089	rBV3	5299	3702	0.11%	0.013%
81	7.258	1097	1100	1103	rBV3	4445	5482	0.16%	0.019%
82	7.370	1116	1121	1126	rVB5	5519	8770	0.26%	0.030%
83	7.408	1126	1128	1131	rBV3	6318	6527	0.19%	0.022%
84	7.429	1131	1132	1136	rVB3	4639	4580	0.13%	0.015%
85	7.461	1136	1138	1143	rVB3	7588	10311	0.30%	0.035%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201243.d
Acq On : 18 Aug 2021 10:39 pm
Operator : kristis
Sample : jd29923-3
Misc : op34922,ef8807,30.1,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

86	7.509	1143	1147	1150	rBV5	5133	6979	0.20%	0.024%
87	7.557	1150	1156	1161	rBV	37449	44407	1.30%	0.150%
88	7.637	1168	1171	1173	rBV4	3989	3473	0.10%	0.012%
89	7.739	1186	1190	1193	rBV3	7278	6579	0.19%	0.022%
90	7.803	1200	1202	1205	rVB3	6546	5424	0.16%	0.018%
91	7.867	1205	1214	1223	rBV	564011	676509	19.75%	2.286%
92	7.995	1236	1238	1241	rBV3	4480	3549	0.10%	0.012%
93	8.033	1241	1245	1247	rVB3	9032	7763	0.23%	0.026%
94	8.081	1247	1254	1256	rBV6	10930	16707	0.49%	0.056%
95	8.150	1265	1267	1271	rBV2	3406	4092	0.12%	0.014%
96	8.182	1271	1273	1275	rVV2	8397	4403	0.13%	0.015%
97	8.214	1275	1279	1285	rVB8	7263	11958	0.35%	0.040%
98	8.268	1285	1289	1298	rBV8	8129	19638	0.57%	0.066%
99	8.369	1302	1308	1310	rBV6	6077	9155	0.27%	0.031%
100	8.385	1310	1311	1316	rVB5	7210	8536	0.25%	0.029%
101	8.417	1316	1317	1319	rBV2	6785	5735	0.17%	0.019%
102	8.439	1319	1321	1325	rVB4	4877	4632	0.14%	0.016%
103	8.487	1325	1330	1336	rBV8	5366	10958	0.32%	0.037%
104	8.540	1336	1340	1345	rVV2	26206	27009	0.79%	0.091%
105	8.620	1349	1355	1359	rVB7	6625	10614	0.31%	0.036%
106	8.663	1359	1363	1369	rBV7	16563	29593	0.86%	0.100%
107	8.717	1369	1373	1374	rBV4	7645	7167	0.21%	0.024%
108	8.765	1379	1382	1385	rVB4	9975	11743	0.34%	0.040%
109	8.807	1385	1390	1392	rBV5	13565	17947	0.52%	0.061%
110	8.861	1392	1400	1411	rVB	2731747	3424968	100.00%	11.573%
111	8.946	1411	1416	1420	rVB8	11642	17042	0.50%	0.058%
112	8.994	1420	1425	1427	rVB5	7862	11626	0.34%	0.039%
113	9.037	1427	1433	1435	rBV7	7433	12124	0.35%	0.041%
114	9.123	1445	1449	1450	rBV4	5984	4808	0.14%	0.016%
115	9.181	1455	1460	1464	rBV7	8654	11935	0.35%	0.040%
116	9.213	1464	1466	1468	rVB3	5797	3119	0.09%	0.011%
117	9.235	1468	1470	1474	rBV5	11271	13746	0.40%	0.046%
118	9.272	1474	1477	1479	rBV3	6352	5364	0.16%	0.018%
119	9.326	1483	1487	1488	rBV5	3934	4107	0.12%	0.014%
120	9.352	1490	1492	1494	rVV3	5472	4096	0.12%	0.014%
121	9.379	1496	1497	1499	rBV2	6653	4410	0.13%	0.015%
122	9.422	1503	1505	1507	rVB3	6513	5389	0.16%	0.018%
123	9.523	1517	1524	1527	rBV8	10408	19340	0.56%	0.065%
124	9.625	1536	1543	1551	rBV9	11957	20139	0.59%	0.068%
125	9.694	1555	1556	1559	rBV3	4316	4693	0.14%	0.016%
126	9.758	1565	1568	1570	rBV4	8395	6096	0.18%	0.021%
127	9.785	1570	1573	1578	rVB7	10926	14910	0.44%	0.050%
128	9.865	1586	1588	1590	rBV3	7431	6844	0.20%	0.023%
129	9.903	1593	1595	1596	rVV2	9516	5211	0.15%	0.018%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201243.d
Acq On : 18 Aug 2021 10:39 pm
Operator : kristis
Sample : jd29923-3
Misc : op34922,ef8807,30.1,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

130	9.940	1597	1602	1615	rVV10	52319	102093	2.98%	0.345%
131	10.041	1620	1621	1625	rBV4	7035	9594	0.28%	0.032%
132	10.079	1627	1628	1630	rBV2	8906	6498	0.19%	0.022%
133	10.143	1635	1640	1643	rBV7	14820	22538	0.66%	0.076%
134	10.191	1647	1649	1652	rBV3	8902	7422	0.22%	0.025%
135	10.218	1652	1654	1655	rBV2	8662	5130	0.15%	0.017%
136	10.287	1663	1667	1671	rBV7	13912	19742	0.58%	0.067%
137	10.421	1688	1692	1695	rBV6	14285	21059	0.61%	0.071%
138	10.458	1697	1699	1701	rVV3	9801	9350	0.27%	0.032%
139	10.485	1702	1704	1707	rVV3	8361	9867	0.29%	0.033%
140	10.512	1707	1709	1713	rVV4	9165	12681	0.37%	0.043%
141	10.554	1715	1717	1722	rVV7	11718	15605	0.46%	0.053%
142	10.597	1722	1725	1728	rVV5	9953	11155	0.33%	0.038%
143	10.629	1729	1731	1734	rVB4	10111	8673	0.25%	0.029%
144	10.656	1734	1736	1739	rBV4	8306	8537	0.25%	0.029%
145	10.709	1743	1746	1747	rVV3	7497	6158	0.18%	0.021%
146	10.757	1750	1755	1759	rBV8	20811	36495	1.07%	0.123%
147	10.805	1760	1764	1767	rVV6	15341	19877	0.58%	0.067%
148	10.859	1771	1774	1777	rVV5	9434	10794	0.32%	0.036%
149	10.902	1781	1782	1785	rVB3	10701	6175	0.18%	0.021%
150	10.934	1785	1788	1790	rBV3	9202	10658	0.31%	0.036%
151	10.982	1795	1797	1801	rVV5	5460	5243	0.15%	0.018%
152	11.035	1801	1807	1813	rBV5	23899	38785	1.13%	0.131%
153	11.185	1834	1835	1838	rBV3	15509	10281	0.30%	0.035%
154	11.324	1856	1861	1864	rBV7	14625	23273	0.68%	0.079%
155	11.479	1885	1890	1896	rVB4	33262	53640	1.57%	0.181%
156	11.575	1902	1908	1913	rBV8	53183	85405	2.49%	0.289%
157	11.633	1914	1919	1922	rVB6	21677	28737	0.84%	0.097%
158	11.687	1927	1929	1932	rBV4	11480	10637	0.31%	0.036%
159	11.922	1966	1973	1983	rBV	1310763	1913445	55.87%	6.466%
160	11.997	1984	1987	1989	rVB4	9514	9882	0.29%	0.033%
161	12.045	1994	1996	2000	rBV5	20903	28134	0.82%	0.095%
162	12.093	2000	2005	2009	rBV8	25733	46959	1.37%	0.159%
163	12.702	2117	2119	2120	rBV2	14050	9550	0.28%	0.032%
164	12.755	2128	2129	2132	rBV3	11664	9506	0.28%	0.032%
165	12.926	2160	2161	2162	rBV	16222	6759	0.20%	0.023%
166	13.840	2328	2332	2337	rVB8	24545	37919	1.11%	0.128%
167	14.134	2378	2387	2400	rBV2	1724824	3068934	89.60%	10.370%
168	14.524	2455	2460	2467	rVB9	35514	75320	2.20%	0.255%
169	15.539	2647	2650	2655	rBV7	26168	34703	1.01%	0.117%
170	16.078	2748	2751	2756	rVB7	31716	49185	1.44%	0.166%
171	16.142	2760	2763	2766	rBV5	29176	44960	1.31%	0.152%
172	16.698	2865	2867	2872	rVB6	40572	42849	1.25%	0.145%
173	17.179	2948	2957	2972	rBV	1751048	3189363	93.12%	10.777%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201243.d
Acq On : 18 Aug 2021 10:39 pm
Operator : kristis
Sample : jd29923-3
Misc : op34922,ef8807,30.1,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

174	17.371	2992	2993	3001	rVB8	20891	36006	1.05%	0.122%
175	18.135	3134	3136	3141	rVB6	38061	51835	1.51%	0.175%
176	18.338	3168	3174	3184	rVB6	53624	134052	3.91%	0.453%
177	18.498	3199	3204	3210	rVB10	36877	83859	2.45%	0.283%
178	18.878	3270	3275	3281	rBV10	50689	85320	2.49%	0.288%
179	19.134	3320	3323	3326	rBV5	20776	29169	0.85%	0.099%

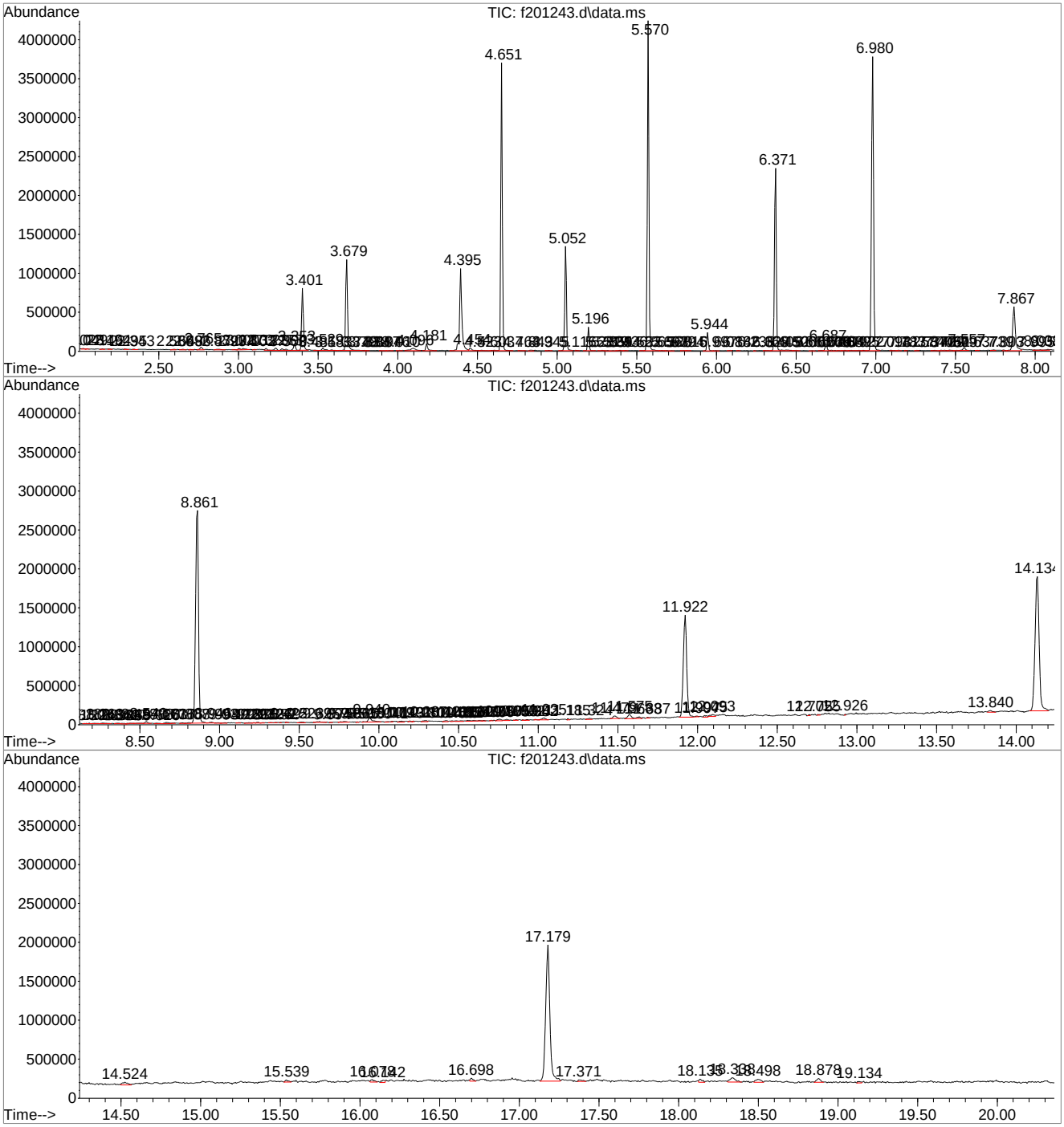
Sum of corrected areas: 29594379

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201243.d
Acq On : 18 Aug 2021 10:39 pm
Operator : kristis
Sample : jd29923-3
Misc : op34922,ef8807,30.1,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201243.d
Acq On : 18 Aug 2021 10:39 pm
Operator : kristis
Sample : jd29923-3
Misc : op34922,ef8807,30.1,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS

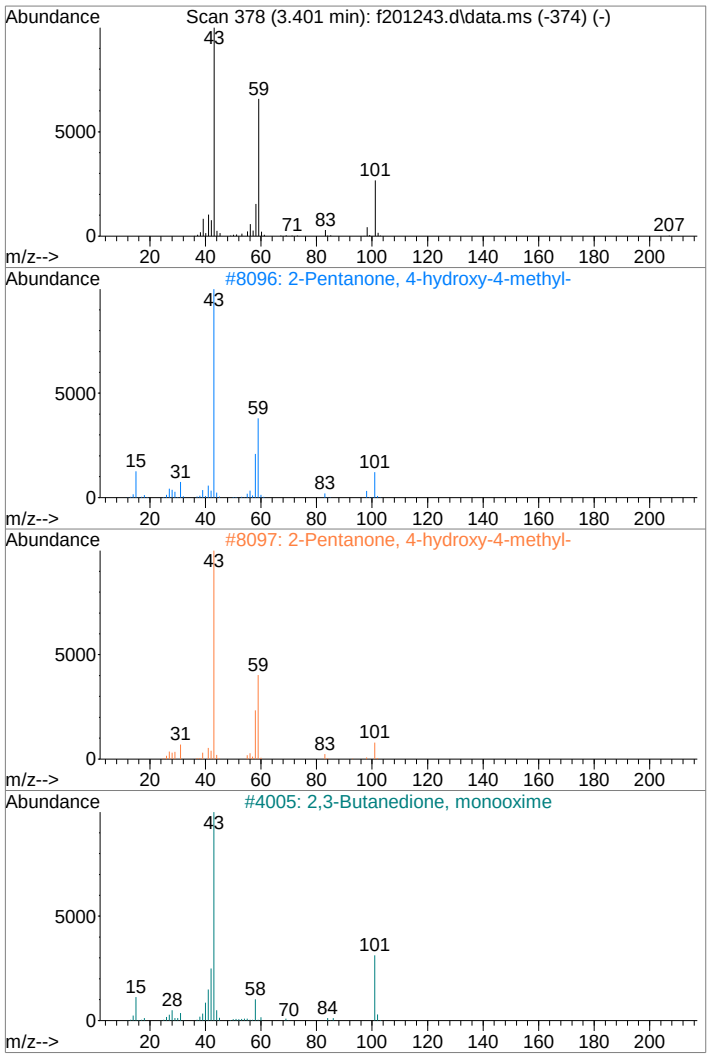
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P

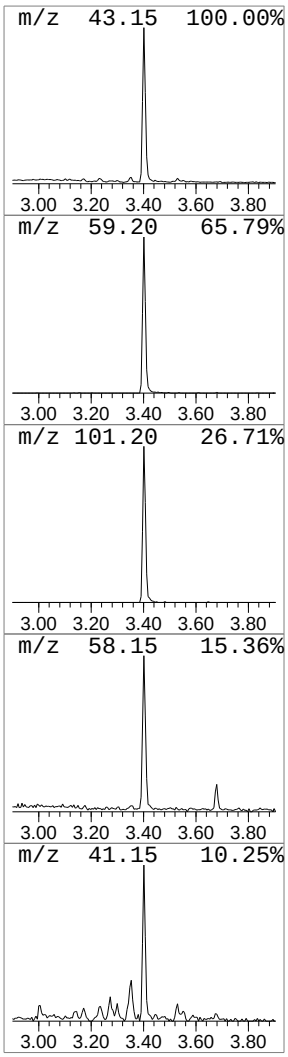
****

Peak Number 1 System artifact/aldol-conde... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.401	9.99 ppm	609883	1,4-Dichlorobenzene-d4b	4.651

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	40
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	25
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
5	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	23





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201243.d
Acq On : 18 Aug 2021 10:39 pm
Operator : kristis
Sample : jd29923-3
Misc : op34922,ef8807,30.1,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
System artifact...	3.401	10.0	ppm	609883	2	4.651	2441990	40.0

Quantitation Report (LSC Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201237.d
Acq On : 18 Aug 2021 7:14 pm
Operator : kristis
Sample : jd29923-4 Inst : GCMSF
Misc : op34922,ef8807,30.4,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 01:43:09 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration

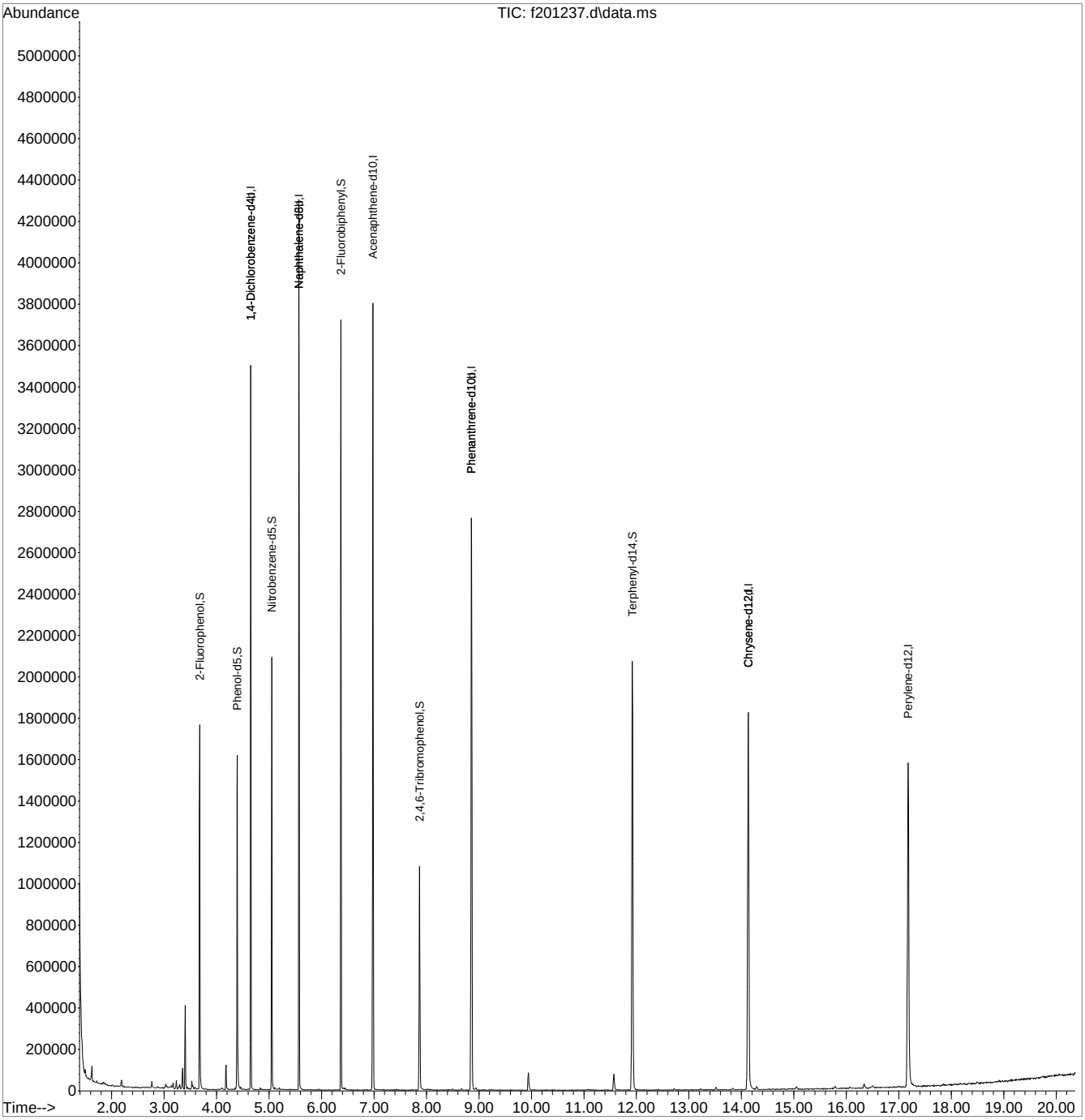
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.651	152	360821	40.00	ppm	0.00
24) Naphthalene-d8	5.570	136	1360733	40.00	ppm	0.00
46) Acenaphthene-d10	6.980	164	768176	40.00	ppm	0.00
69) Phenanthrene-d10	8.855	188	1357023	40.00	ppm	0.00
83) Chrysene-d12	14.134	240	1087282	40.00	ppm	-0.01
92) Perylene-d12	17.179	264	1004887	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4b	4.651	152	360821	40.00	ppm	0.00
104) Phenanthrene-d10b	8.855	188	1357023	40.00	ppm	0.00
106) Naphthalene-d8b	5.570	136	1360733	40.00	ppm	0.00
108) Chrysene-d12d	14.134	240	1087282	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.679	112	359763	32.57	ppm	0.00
Spiked Amount 50.000			Recovery = 65.14%			
8) Phenol-d5	4.395	99	461366	30.81	ppm	0.00
Spiked Amount 50.000			Recovery = 61.62%			
25) Nitrobenzene-d5	5.052	82	509730	38.77	ppm	0.00
Spiked Amount 50.000			Recovery = 77.54%			
51) 2-Fluorobiphenyl	6.371	172	917849	35.92	ppm	0.00
Spiked Amount 50.000			Recovery = 71.84%			
73) 2,4,6-Tribromophenol	7.867	330	125793	35.22	ppm	0.00
Spiked Amount 50.000			Recovery = 70.44%			
86) Terphenyl-d14	11.922	244	1106749	42.68	ppm	0.00
Spiked Amount 50.000			Recovery = 85.36%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (LSC Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201237.d
Acq On : 18 Aug 2021 7:14 pm
Operator : kristis
Sample : jd29923-4 Inst : GCMSF
Misc : op34922,ef8807,30.4,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 01:43:09 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201237.d
Acq On : 18 Aug 2021 7:14 pm
Operator : kristis
Sample : jd29923-4
Misc : op34922,ef8807,30.4,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: f201237.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.071	127	129	133	rBV4	4716	6073	0.18%	0.019%
2	2.098	133	134	137	rVB3	4607	3599	0.10%	0.011%
3	2.188	144	151	155	rBV4	31744	36048	1.04%	0.113%
4	2.242	160	161	166	rBV5	5217	5756	0.17%	0.018%
5	2.375	179	186	189	rVB7	4668	10120	0.29%	0.032%
6	2.423	190	195	197	rVB4	5062	6164	0.18%	0.019%
7	2.461	197	202	204	rBV3	6893	6888	0.20%	0.022%
8	2.493	204	208	214	rVB6	4131	4977	0.14%	0.016%
9	2.557	216	220	222	rBV5	2363	3276	0.09%	0.010%
10	2.578	222	224	226	rBV3	3506	3645	0.11%	0.011%
11	2.594	226	227	237	rVB7	4580	6994	0.20%	0.022%
12	2.765	256	259	272	rVB	32437	37315	1.08%	0.117%
13	2.872	272	279	282	rBV7	6911	10940	0.32%	0.034%
14	3.000	301	303	304	rBV3	6136	3947	0.11%	0.012%
15	3.032	305	309	319	rVV7	21438	43641	1.26%	0.136%
16	3.102	319	322	325	rVV4	8606	13733	0.40%	0.043%
17	3.139	325	329	332	rVV5	15721	22922	0.66%	0.072%
18	3.171	332	335	340	rVV	28109	29777	0.86%	0.093%
19	3.235	340	347	351	rVB	44101	47185	1.36%	0.147%
20	3.300	351	359	362	rBV5	23934	37796	1.09%	0.118%
21	3.353	362	369	373	rVB	102334	102936	2.97%	0.322%
22	3.401	373	378	384	rBV	404940	313993	9.06%	0.982%
23	3.444	384	386	390	rVV4	10890	10639	0.31%	0.033%
24	3.476	390	392	394	rVB3	5124	3263	0.09%	0.010%
25	3.529	397	402	409	rVV3	40707	52445	1.51%	0.164%
26	3.588	409	413	418	rVV4	11934	16774	0.48%	0.052%
27	3.679	419	430	446	rVV	1762224	1439046	41.52%	4.498%
28	3.791	448	451	458	rVB5	4786	8894	0.26%	0.028%
29	3.941	475	479	484	rVB4	3725	6067	0.18%	0.019%
30	4.031	492	496	500	rVB6	3398	5930	0.17%	0.019%
31	4.101	500	509	517	rBV4	9605	23170	0.67%	0.072%
32	4.181	520	524	537	rBV	120611	115790	3.34%	0.362%
33	4.293	537	545	546	rVB2	3046	5949	0.17%	0.019%
34	4.325	546	551	553	rBV2	3537	5791	0.17%	0.018%
35	4.357	553	557	558	rVV4	9108	6248	0.18%	0.020%
36	4.395	558	564	574	rVV	1616741	1454361	41.97%	4.546%
37	4.459	574	576	581	rVB2	12926	12934	0.37%	0.040%
38	4.603	599	603	607	rBV4	4659	5361	0.15%	0.017%
39	4.651	607	612	625	rVB	3499654	2390415	68.98%	7.472%
40	4.833	641	646	650	rBV3	10420	11807	0.34%	0.037%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201237.d
Acq On : 18 Aug 2021 7:14 pm
Operator : kristis
Sample : jd29923-4
Misc : op34922,ef8807,30.4,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

41	4.902	657	659	664	rVB3	3403	3717	0.11%	0.012%
42	5.020	677	681	682	rVB3	4360	3600	0.10%	0.011%
43	5.052	682	687	696	rBV	2092093	1490555	43.01%	4.659%
44	5.111	696	698	704	rVB5	9625	9245	0.27%	0.029%
45	5.196	712	714	718	rVB3	11413	9102	0.26%	0.028%
46	5.255	721	725	728	rVV3	3006	4037	0.12%	0.013%
47	5.394	745	751	755	rBV5	3943	7302	0.21%	0.023%
48	5.570	780	784	803	rVB	4304372	2976856	85.90%	9.306%
49	5.688	803	806	808	rBV2	3349	3529	0.10%	0.011%
50	5.789	821	825	830	rBV4	3194	3580	0.10%	0.011%
51	5.944	851	854	860	rVB4	6853	8484	0.24%	0.027%
52	6.094	877	882	885	rVB2	2860	3306	0.10%	0.010%
53	6.142	885	891	893	rBV3	5012	6824	0.20%	0.021%
54	6.371	927	934	939	rBV	3721886	2794867	80.65%	8.737%
55	6.414	939	942	945	rVV3	9270	13873	0.40%	0.043%
56	6.452	948	949	954	rVB4	8451	6829	0.20%	0.021%
57	6.687	991	993	997	rBV2	3442	3942	0.11%	0.012%
58	6.724	997	1000	1008	rVB3	2744	4471	0.13%	0.014%
59	6.980	1040	1048	1060	rBV	3803066	3361413	96.99%	10.508%
60	7.210	1089	1091	1095	rVB2	3288	3635	0.10%	0.011%
61	7.274	1098	1103	1106	rVB2	3335	4649	0.13%	0.015%
62	7.333	1111	1114	1116	rBV2	3155	3344	0.10%	0.010%
63	7.424	1127	1131	1136	rBV4	5669	6659	0.19%	0.021%
64	7.467	1136	1139	1145	rVB5	4398	4980	0.14%	0.016%
65	7.541	1150	1153	1155	rBV2	4112	4177	0.12%	0.013%
66	7.568	1155	1158	1162	rVB3	3242	3548	0.10%	0.011%
67	7.718	1183	1186	1188	rBV	4265	3386	0.10%	0.011%
68	7.782	1193	1198	1200	rVB3	2580	3979	0.11%	0.012%
69	7.867	1204	1214	1229	rVV	1083494	1168629	33.72%	3.653%
70	7.979	1231	1235	1238	rVV3	4708	6662	0.19%	0.021%
71	8.027	1238	1244	1250	rVV5	6247	14476	0.42%	0.045%
72	8.081	1250	1254	1266	rVB5	5900	13465	0.39%	0.042%
73	8.166	1266	1270	1274	rBV2	2935	3990	0.12%	0.012%
74	8.289	1289	1293	1297	rVB3	3038	4257	0.12%	0.013%
75	8.439	1320	1321	1328	rVB2	3084	4048	0.12%	0.013%
76	8.492	1328	1331	1337	rBV2	6076	7134	0.21%	0.022%
77	8.669	1357	1364	1369	rBV3	9240	11834	0.34%	0.037%
78	8.856	1390	1399	1412	rBV	2764284	3465619	100.00%	10.833%
79	8.946	1412	1416	1423	rVB2	12468	14967	0.43%	0.047%
80	9.181	1456	1460	1462	rBV2	3548	4062	0.12%	0.013%
81	9.240	1466	1471	1479	rBV3	6238	10833	0.31%	0.034%
82	9.603	1535	1539	1542	rBV2	4879	5834	0.17%	0.018%
83	9.822	1577	1580	1583	rBV2	3032	3587	0.10%	0.011%
84	9.940	1592	1602	1612	rBV4	85994	127465	3.68%	0.398%
85	10.036	1612	1620	1623	rVB3	2750	5566	0.16%	0.017%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201237.d
Acq On : 18 Aug 2021 7:14 pm
Operator : kristis
Sample : jd29923-4
Misc : op34922,ef8807,30.4,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

86	10.293	1666	1668	1675	rBV3	4375	6675	0.19%	0.021%
87	10.837	1766	1770	1772	rBV2	2963	4056	0.12%	0.013%
88	10.880	1777	1778	1786	rBV3	3067	5761	0.17%	0.018%
89	11.078	1812	1815	1818	rVV4	5137	6823	0.20%	0.021%
90	11.131	1822	1825	1829	rBV4	3484	4404	0.13%	0.014%
91	11.393	1869	1874	1878	rBV	3897	6933	0.20%	0.022%
92	11.569	1901	1907	1915	rBV4	78578	119106	3.44%	0.372%
93	11.666	1921	1925	1926	rVB3	3174	3218	0.09%	0.010%
94	11.847	1956	1959	1961	rVB	5170	4138	0.12%	0.013%
95	11.874	1961	1964	1965	rBV2	2897	3259	0.09%	0.010%
96	11.922	1965	1973	1984	rVV	2073134	3049233	87.99%	9.532%
97	12.221	2027	2029	2033	rVB2	4339	3433	0.10%	0.011%
98	12.365	2052	2056	2058	rBV2	3247	3747	0.11%	0.012%
99	12.723	2117	2123	2128	rBV3	9205	17139	0.49%	0.054%
100	12.761	2128	2130	2134	rVB3	3629	3395	0.10%	0.011%
101	12.809	2134	2139	2141	rBV3	4481	4155	0.12%	0.013%
102	12.905	2154	2157	2160	rBV2	2843	3572	0.10%	0.011%
103	12.964	2167	2168	2174	rVB3	2671	4257	0.12%	0.013%
104	13.055	2179	2185	2186	rVB3	2544	3462	0.10%	0.011%
105	13.108	2190	2195	2197	rBV2	3549	5314	0.15%	0.017%
106	13.199	2209	2212	2214	rBV2	4041	4853	0.14%	0.015%
107	13.220	2214	2216	2221	rVB3	6690	7550	0.22%	0.024%
108	13.316	2230	2234	2236	rBV2	3935	3514	0.10%	0.011%
109	13.386	2241	2247	2249	rVB4	3725	4624	0.13%	0.014%
110	13.514	2263	2271	2277	rBV5	14116	24270	0.70%	0.076%
111	13.594	2281	2286	2289	rBV2	3943	3253	0.09%	0.010%
112	13.669	2296	2300	2305	rBV3	3233	4230	0.12%	0.013%
113	13.840	2324	2332	2340	rBV9	9048	20926	0.60%	0.065%
114	14.005	2356	2363	2366	rVB6	4003	9282	0.27%	0.029%
115	14.054	2366	2372	2374	rBV5	3390	5712	0.16%	0.018%
116	14.134	2374	2387	2407	rVV2	1824288	3104908	89.59%	9.706%
117	14.257	2407	2410	2411	rVV2	7698	5098	0.15%	0.016%
118	14.289	2411	2416	2425	rVB7	16145	31789	0.92%	0.099%
119	14.390	2430	2435	2438	rVV6	2916	4982	0.14%	0.016%
120	14.433	2438	2443	2445	rVB4	3013	4306	0.12%	0.013%
121	14.534	2460	2462	2465	rVB3	6139	5914	0.17%	0.018%
122	14.556	2465	2466	2469	rBV2	3432	3355	0.10%	0.010%
123	14.593	2469	2473	2476	rBV3	5397	7905	0.23%	0.025%
124	14.769	2501	2506	2509	rBV4	4525	5067	0.15%	0.016%
125	14.898	2525	2530	2532	rBV4	4601	5680	0.16%	0.018%
126	14.994	2546	2548	2552	rBV3	3520	3581	0.10%	0.011%
127	15.036	2552	2556	2565	rVB8	14248	34234	0.99%	0.107%
128	15.101	2565	2568	2569	rBV3	4839	4821	0.14%	0.015%
129	15.213	2583	2589	2590	rBV5	3676	5893	0.17%	0.018%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201237.d
Acq On : 18 Aug 2021 7:14 pm
Operator : kristis
Sample : jd29923-4
Misc : op34922,ef8807,30.4,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

130	15.245	2590	2595	2600	rBV6	5078	9554	0.28%	0.030%
131	15.309	2603	2607	2612	rBV5	5552	8074	0.23%	0.025%
132	15.362	2615	2617	2620	rVB2	4120	3666	0.11%	0.011%
133	15.410	2620	2626	2629	rBV3	5201	9159	0.26%	0.029%
134	15.485	2638	2640	2643	rVB3	4249	3521	0.10%	0.011%
135	15.528	2643	2648	2649	rBV3	4641	4042	0.12%	0.013%
136	15.576	2654	2657	2662	rBV5	6827	8646	0.25%	0.027%
137	15.613	2662	2664	2667	rBV3	6088	5644	0.16%	0.018%
138	15.672	2673	2675	2679	rVB2	4146	4840	0.14%	0.015%
139	15.731	2682	2686	2688	rVB3	6013	3502	0.10%	0.011%
140	15.784	2688	2696	2702	rBV8	12584	26002	0.75%	0.081%
141	15.881	2712	2714	2718	rBV4	5906	5446	0.16%	0.017%
142	15.955	2726	2728	2733	rBV4	3685	4179	0.12%	0.013%
143	16.014	2736	2739	2741	rBV3	4583	3400	0.10%	0.011%
144	16.068	2745	2749	2757	rVV9	8002	13608	0.39%	0.043%
145	16.228	2776	2779	2782	rVB5	6017	6490	0.19%	0.020%
146	16.265	2782	2786	2788	rVB2	4884	6623	0.19%	0.021%
147	16.287	2788	2790	2791	rBV2	5004	3248	0.09%	0.010%
148	16.340	2795	2800	2806	rBV7	22849	41489	1.20%	0.130%
149	16.393	2806	2810	2814	rVB5	5622	8189	0.24%	0.026%
150	16.431	2814	2817	2818	rBV3	5801	4926	0.14%	0.015%
151	16.452	2818	2821	2822	rBV2	4438	3823	0.11%	0.012%
152	16.500	2822	2830	2837	rVV10	11094	25740	0.74%	0.080%
153	16.639	2854	2856	2860	rVB4	5147	3619	0.10%	0.011%
154	16.666	2860	2861	2864	rBV2	3608	3261	0.09%	0.010%
155	16.703	2866	2868	2874	rVB4	4168	6041	0.17%	0.019%
156	16.778	2879	2882	2885	rVV4	4731	5067	0.15%	0.016%
157	16.810	2885	2888	2889	rVB3	6195	4251	0.12%	0.013%
158	16.831	2889	2892	2894	rBV4	6413	8263	0.24%	0.026%
159	16.853	2894	2896	2899	rVB3	4681	4277	0.12%	0.013%
160	16.906	2904	2906	2909	rVB4	4781	3696	0.11%	0.012%
161	16.954	2913	2915	2917	rBV3	4364	3368	0.10%	0.011%
162	16.992	2920	2922	2926	rBV5	4860	5714	0.16%	0.018%
163	17.067	2933	2936	2938	rBV4	4365	5490	0.16%	0.017%
164	17.179	2946	2957	2973	rBV	1569222	2904955	83.82%	9.081%
165	17.355	2987	2990	2992	rBV4	5577	6932	0.20%	0.022%
166	17.430	3001	3004	3005	rVB3	5512	4654	0.13%	0.015%
167	17.494	3014	3016	3017	rVB2	5361	3433	0.10%	0.011%
168	17.510	3017	3019	3022	rVB3	6622	5002	0.14%	0.016%
169	17.537	3022	3024	3025	rBV2	6250	3801	0.11%	0.012%
170	17.553	3025	3027	3028	rBV2	6106	3465	0.10%	0.011%
171	17.670	3048	3049	3051	rBV2	9233	5522	0.16%	0.017%
172	17.820	3073	3077	3080	rBV5	6795	8604	0.25%	0.027%
173	17.852	3080	3083	3089	rVV5	11235	16537	0.48%	0.052%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201237.d
Acq On : 18 Aug 2021 7:14 pm
Operator : kristis
Sample : jd29923-4
Misc : op34922,ef8807,30.4,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

174	17.889	3089	3090	3092	rBV2	7005	3420	0.10%	0.011%
175	17.927	3095	3097	3099	rVV3	4851	4066	0.12%	0.013%
176	17.975	3103	3106	3109	rVB5	6795	6715	0.19%	0.021%
177	18.007	3109	3112	3113	rVB2	9729	6521	0.19%	0.020%
178	18.017	3113	3114	3118	rBV2	7817	10587	0.31%	0.033%
179	18.087	3125	3127	3130	rVB4	5713	6150	0.18%	0.019%
180	18.172	3140	3143	3145	rBV4	4868	4877	0.14%	0.015%
181	18.226	3149	3153	3154	rBV4	6250	5271	0.15%	0.016%
182	18.247	3155	3157	3160	rVB4	7819	6532	0.19%	0.020%
183	18.338	3167	3174	3180	rBV9	8296	20153	0.58%	0.063%
184	18.386	3180	3183	3184	rVB2	8069	3665	0.11%	0.011%
185	18.488	3198	3202	3203	rBV4	10112	10994	0.32%	0.034%
186	18.557	3212	3215	3216	rVB3	7930	6093	0.18%	0.019%
187	18.568	3216	3217	3221	rBV4	8511	9334	0.27%	0.029%
188	18.643	3226	3231	3233	rBV4	7063	9842	0.28%	0.031%
189	18.894	3277	3278	3281	rBV3	5492	4780	0.14%	0.015%
190	18.979	3288	3294	3296	rBV5	9838	14713	0.42%	0.046%
191	19.049	3300	3307	3312	rVB9	9609	22030	0.64%	0.069%
192	19.086	3312	3314	3315	rBV	8050	6711	0.19%	0.021%
193	19.123	3319	3321	3325	rVB5	11245	12698	0.37%	0.040%
194	19.155	3325	3327	3328	rBV2	12475	6165	0.18%	0.019%
195	19.380	3366	3369	3370	rBV3	9729	5665	0.16%	0.018%
196	19.508	3392	3393	3395	rBV2	10213	7222	0.21%	0.023%
197	19.577	3404	3406	3410	rBV5	7390	10022	0.29%	0.031%
198	19.625	3413	3415	3417	rBV3	5947	5359	0.15%	0.017%
199	19.791	3444	3446	3449	rBV4	10454	10008	0.29%	0.031%
200	19.973	3479	3480	3481	rBV	9254	3951	0.11%	0.012%

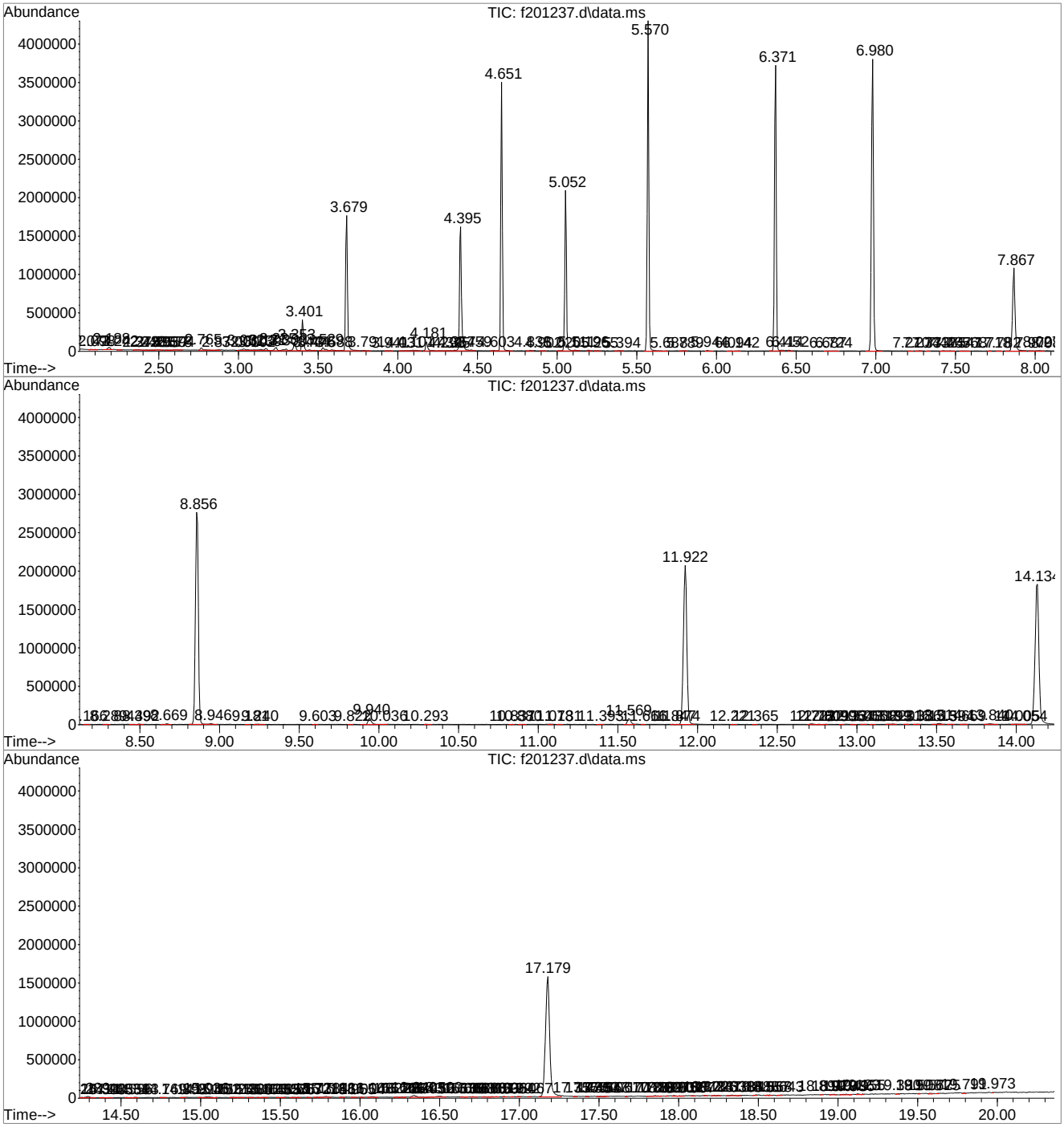
Sum of corrected areas: 31990060

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201237.d
Acq On : 18 Aug 2021 7:14 pm
Operator : kristis
Sample : jd29923-4
Misc : op34922,ef8807,30.4,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201237.d
Acq On : 18 Aug 2021 7:14 pm
Operator : kristis
Sample : jd29923-4
Misc : op34922,ef8807,30.4,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS

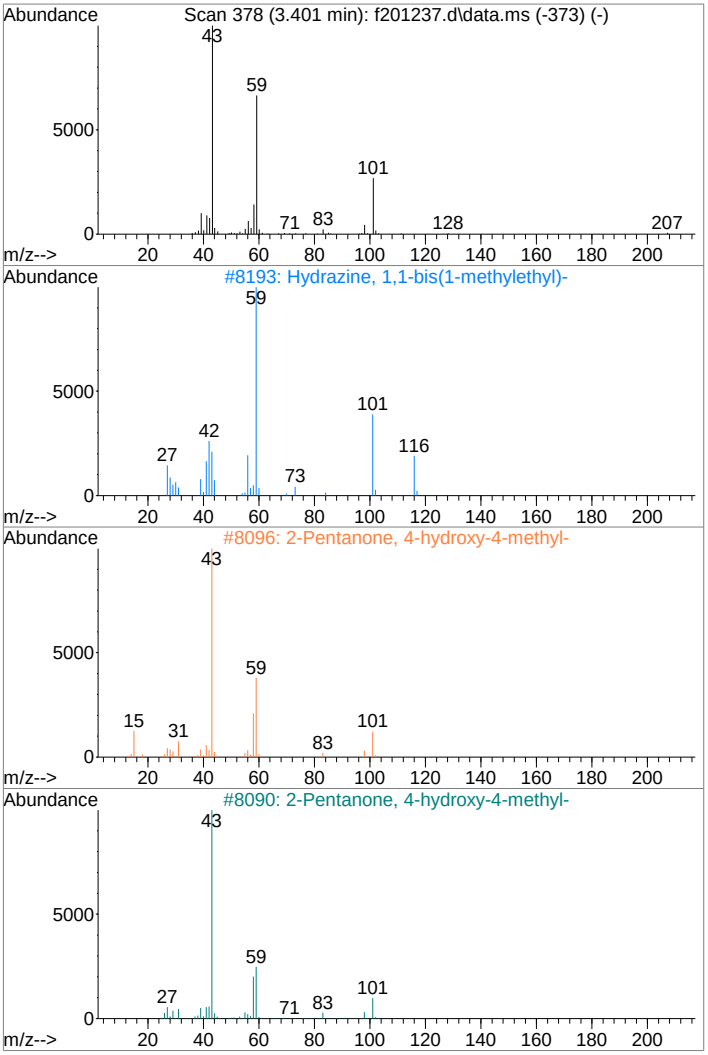
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P

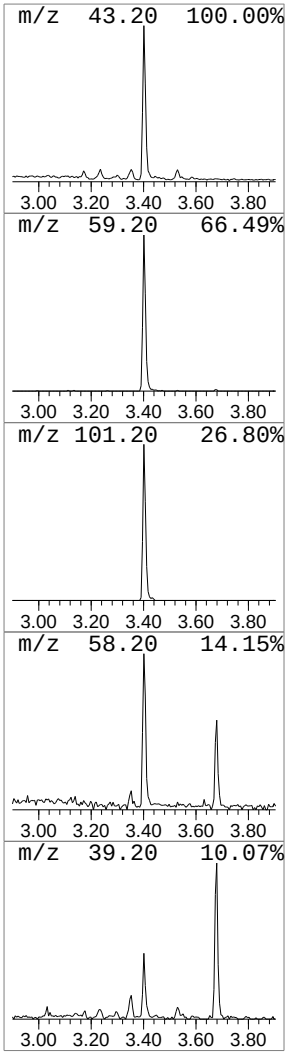
****

Peak Number 1 System artifact/aldol-conde... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.401	5.25 ppm	313993	1,4-Dichlorobenzene-d4b	4.651

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hydrazine, 1,1-bis(1-methylethyl)-	116	C6H16N2	000921-14-2	50
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
4	Dimethadione	129	C5H7NO3	000695-53-4	33
5	Succinic acid, heptyl 2-methoxye...	274	C14H26O5	1000325-80-7	33





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201237.d
Acq On : 18 Aug 2021 7:14 pm
Operator : kristis
Sample : jd29923-4
Misc : op34922,ef8807,30.4,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
System artifact...	3.401	5.3	ppm	313993	2	4.651	2390420	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201238.d
Acq On : 18 Aug 2021 7:42 pm
Operator : kristis
Sample : jd29923-5 Inst : GCMSF
Misc : op34922,ef8807,31.3,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 01:45:33 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration

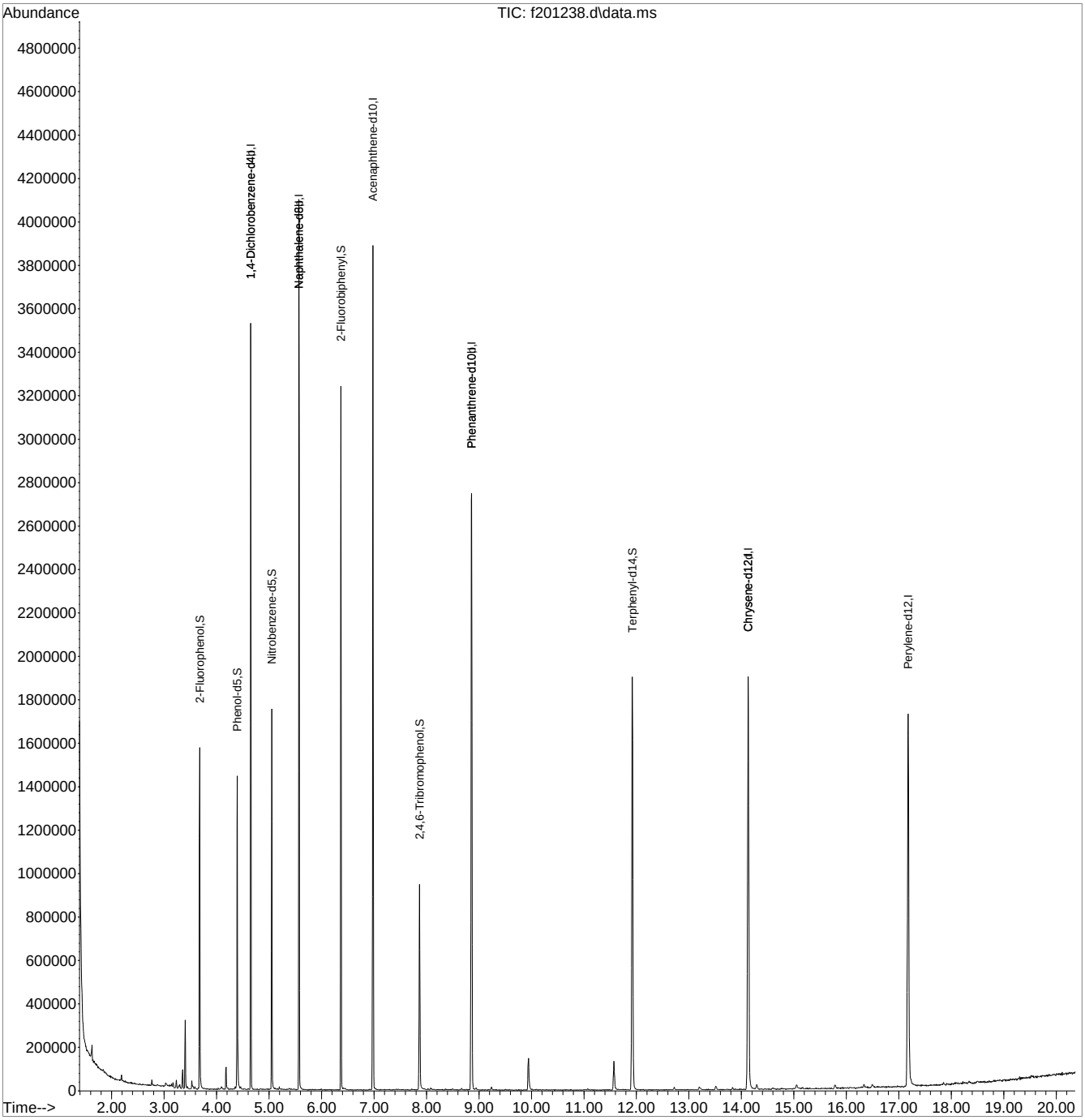
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.651	152	359254	40.00	ppm	0.00
24) Naphthalene-d8	5.570	136	1371264	40.00	ppm	0.00
46) Acenaphthene-d10	6.980	164	756014	40.00	ppm	0.00
69) Phenanthrene-d10	8.861	188	1356673	40.00	ppm	0.00
83) Chrysene-d12	14.128	240	1098741	40.00	ppm	-0.02
92) Perylene-d12	17.179	264	1050170	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4b	4.651	152	359254	40.00	ppm	0.00
104) Phenanthrene-d10b	8.861	188	1356673	40.00	ppm	0.00
106) Naphthalene-d8b	5.570	136	1371264	40.00	ppm	0.00
108) Chrysene-d12d	14.128	240	1098741	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.679	112	319750	29.07	ppm	0.00
Spiked Amount 50.000			Recovery = 58.14%			
8) Phenol-d5	4.395	99	416030	27.91	ppm	0.00
Spiked Amount 50.000			Recovery = 55.82%			
25) Nitrobenzene-d5	5.052	82	444254	33.53	ppm	0.00
Spiked Amount 50.000			Recovery = 67.06%			
51) 2-Fluorobiphenyl	6.371	172	803909	31.97	ppm	0.00
Spiked Amount 50.000			Recovery = 63.94%			
73) 2,4,6-Tribromophenol	7.867	330	110954	31.07	ppm	0.00
Spiked Amount 50.000			Recovery = 62.14%			
86) Terphenyl-d14	11.922	244	1018926	38.88	ppm	0.00
Spiked Amount 50.000			Recovery = 77.76%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201238.d
Acq On : 18 Aug 2021 7:42 pm
Operator : kristis
Sample : jd29923-5 Inst : GCMSF
Misc : op34922,ef8807,31.3,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 01:45:33 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration



MF8747.M Thu Aug 19 02:58:28 2021 Page: 2

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201238.d
Acq On : 18 Aug 2021 7:42 pm
Operator : kristis
Sample : jd29923-5
Misc : op34922,ef8807,31.3,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: f201238.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.076	128	130	135	rVB4	6967	5791	0.17%	0.019%
2	2.188	146	151	155	rVB4	29512	30092	0.87%	0.096%
3	2.381	186	187	191	rVB4	8360	5936	0.17%	0.019%
4	2.594	224	227	229	rBV4	4769	4907	0.14%	0.016%
5	2.765	252	259	267	rVB2	26739	32705	0.95%	0.105%
6	2.878	274	280	283	rBV5	6444	9640	0.28%	0.031%
7	3.033	304	309	320	rVV9	16877	37874	1.10%	0.121%
8	3.102	320	322	324	rVV3	8877	8487	0.25%	0.027%
9	3.139	324	329	333	rVV5	14341	20743	0.60%	0.066%
10	3.171	333	335	341	rVB3	24990	24408	0.71%	0.078%
11	3.236	342	347	351	rVB2	38709	37620	1.09%	0.120%
12	3.300	351	359	364	rVB7	19487	33303	0.96%	0.107%
13	3.353	364	369	373	rBV	87640	80129	2.32%	0.257%
14	3.401	373	378	384	rBV	316270	253423	7.33%	0.811%
15	3.444	384	386	393	rVB6	12727	13736	0.40%	0.044%
16	3.529	398	402	410	rVB2	37940	45328	1.31%	0.145%
17	3.588	410	413	421	rVB6	13648	20900	0.60%	0.067%
18	3.679	421	430	443	rBV	1573880	1283552	37.14%	4.109%
19	4.032	494	496	500	rBV3	6758	6213	0.18%	0.020%
20	4.096	500	508	514	rVV3	12281	21744	0.63%	0.070%
21	4.181	520	524	529	rBV	102280	91976	2.66%	0.294%
22	4.277	540	542	546	rVB4	5325	4745	0.14%	0.015%
23	4.309	546	548	550	rBV3	3664	3666	0.11%	0.012%
24	4.357	552	557	558	rVV2	12642	10773	0.31%	0.034%
25	4.395	558	564	573	rVV	1442142	1285627	37.20%	4.115%
26	4.459	573	576	585	rVB3	12441	15827	0.46%	0.051%
27	4.603	596	603	607	rBV5	6490	9714	0.28%	0.031%
28	4.651	607	612	619	rBV	3528109	2368709	68.54%	7.583%
29	4.779	634	636	641	rVB4	4934	4563	0.13%	0.015%
30	4.833	641	646	651	rBV5	6412	11139	0.32%	0.036%
31	4.961	662	670	673	rVB5	3256	6329	0.18%	0.020%
32	4.982	673	674	677	rVB2	5357	4473	0.13%	0.014%
33	5.052	677	687	697	rBV	1753430	1305307	37.77%	4.178%
34	5.111	697	698	702	rVV4	7804	5592	0.16%	0.018%
35	5.159	706	707	711	rVB3	5245	3847	0.11%	0.012%
36	5.196	711	714	719	rBV2	14000	12938	0.37%	0.041%
37	5.292	729	732	737	rVB5	2704	4245	0.12%	0.014%
38	5.388	744	750	755	rBV5	5713	7967	0.23%	0.026%
39	5.570	777	784	799	rBV	4099253	2963987	85.77%	9.488%
40	5.821	828	831	835	rVB4	3749	4182	0.12%	0.013%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201238.d
Acq On : 18 Aug 2021 7:42 pm
Operator : kristis
Sample : jd29923-5
Misc : op34922,ef8807,31.3,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

41	5.997	860	864	867	rVB4	6566	8774	0.25%	0.028%
42	6.046	867	873	874	rBV2	3588	5230	0.15%	0.017%
43	6.104	880	884	886	rBV2	3093	4178	0.12%	0.013%
44	6.131	886	889	892	rBV	3827	4927	0.14%	0.016%
45	6.158	892	894	899	rVB3	3926	5289	0.15%	0.017%
46	6.216	903	905	910	rVV2	2654	3484	0.10%	0.011%
47	6.371	929	934	940	rBV	3240275	2464812	71.33%	7.890%
48	6.409	940	941	945	rVV3	11009	12919	0.37%	0.041%
49	6.457	945	950	954	rVV4	9107	15933	0.46%	0.051%
50	6.494	954	957	964	rVB3	2773	4212	0.12%	0.013%
51	6.687	987	993	996	rBV2	3307	4945	0.14%	0.016%
52	6.724	996	1000	1005	rVB	2467	3583	0.10%	0.011%
53	6.804	1010	1015	1019	rBV4	3712	3864	0.11%	0.012%
54	6.922	1032	1037	1040	rBV3	4557	5181	0.15%	0.017%
55	6.980	1040	1048	1064	rBV	3887905	3366592	97.42%	10.777%
56	7.130	1074	1076	1079	rBV3	4163	4087	0.12%	0.013%
57	7.419	1125	1130	1136	rVV4	4594	8705	0.25%	0.028%
58	7.461	1136	1138	1144	rVV5	3726	5286	0.15%	0.017%
59	7.547	1150	1154	1155	rVB3	3694	3979	0.12%	0.013%
60	7.563	1155	1157	1164	rBV3	3813	4750	0.14%	0.015%
61	7.718	1182	1186	1192	rBV6	4908	7204	0.21%	0.023%
62	7.771	1192	1196	1199	rVB	3645	4056	0.12%	0.013%
63	7.867	1207	1214	1227	rBV	946532	1033836	29.92%	3.309%
64	7.953	1229	1230	1237	rVB4	6716	8945	0.26%	0.029%
65	8.028	1242	1244	1249	rVB2	7944	8774	0.25%	0.028%
66	8.081	1249	1254	1256	rBV3	9916	11864	0.34%	0.038%
67	8.209	1273	1278	1280	rBV2	3236	4131	0.12%	0.013%
68	8.359	1302	1306	1309	rBV2	5329	5251	0.15%	0.017%
69	8.498	1328	1332	1338	rVV5	6130	9328	0.27%	0.030%
70	8.572	1341	1346	1347	rVB2	3332	4233	0.12%	0.014%
71	8.669	1359	1364	1367	rVB2	8224	10407	0.30%	0.033%
72	8.813	1385	1391	1393	rVV3	4313	6846	0.20%	0.022%
73	8.861	1393	1400	1411	rVV	2747393	3455709	100.00%	11.062%
74	8.946	1411	1416	1422	rVV3	11170	21156	0.61%	0.068%
75	8.989	1422	1424	1431	rVB4	3479	5497	0.16%	0.018%
76	9.064	1434	1438	1446	rVB2	2781	4958	0.14%	0.016%
77	9.192	1453	1462	1464	rBV4	3489	5753	0.17%	0.018%
78	9.240	1466	1471	1476	rVV	15070	20470	0.59%	0.066%
79	9.315	1480	1485	1486	rVB2	4273	3858	0.11%	0.012%
80	9.433	1503	1507	1512	rVB2	2336	3858	0.11%	0.012%
81	9.507	1517	1521	1526	rBV4	4770	5561	0.16%	0.018%
82	9.630	1543	1544	1550	rVB2	3340	4776	0.14%	0.015%
83	9.705	1550	1558	1561	rBV3	2925	8284	0.24%	0.027%
84	9.860	1581	1587	1589	rBV3	3357	4387	0.13%	0.014%
85	9.945	1592	1603	1613	rVV2	147650	231773	6.71%	0.742%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201238.d
Acq On : 18 Aug 2021 7:42 pm
Operator : kristis
Sample : jd29923-5
Misc : op34922,ef8807,31.3,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

86	10.010	1613	1615	1619	rVV4	6054	5487	0.16%	0.018%
87	10.063	1619	1625	1627	rVV4	3044	6026	0.17%	0.019%
88	10.090	1627	1630	1637	rVB2	5062	9259	0.27%	0.030%
89	10.164	1637	1644	1649	rBV2	4325	9313	0.27%	0.030%
90	10.213	1649	1653	1660	rBV5	2787	5574	0.16%	0.018%
91	10.298	1667	1669	1674	rVB2	3256	4240	0.12%	0.014%
92	10.432	1691	1694	1695	rVB3	4339	3824	0.11%	0.012%
93	11.073	1809	1814	1818	rVB4	6350	6168	0.18%	0.020%
94	11.489	1891	1892	1899	rVB	2871	3794	0.11%	0.012%
95	11.569	1899	1907	1917	rBV2	134193	210674	6.10%	0.674%
96	11.655	1921	1923	1928	rVB4	3989	4498	0.13%	0.014%
97	11.740	1937	1939	1943	rVB4	3471	3625	0.10%	0.012%
98	11.922	1961	1973	1988	rBV	1902759	2838359	82.14%	9.086%
99	12.093	2002	2005	2009	rBV5	4016	6273	0.18%	0.020%
100	12.130	2009	2012	2016	rVB3	4344	4387	0.13%	0.014%
101	12.317	2046	2047	2053	rBV2	3644	5935	0.17%	0.019%
102	12.467	2070	2075	2077	rBV2	3157	4314	0.12%	0.014%
103	12.568	2090	2094	2099	rVB3	3101	4205	0.12%	0.013%
104	12.723	2116	2123	2128	rBV4	13568	19852	0.57%	0.064%
105	12.804	2132	2138	2140	rVB4	3049	5156	0.15%	0.017%
106	12.830	2140	2143	2145	rBV2	3444	3637	0.11%	0.012%
107	13.199	2204	2212	2221	rBV9	13782	29836	0.86%	0.096%
108	13.338	2235	2238	2241	rBV4	3691	3884	0.11%	0.012%
109	13.509	2266	2270	2277	rVV5	16180	29862	0.86%	0.096%
110	13.599	2284	2287	2289	rBV3	4093	3501	0.10%	0.011%
111	13.653	2294	2297	2301	rBV4	4684	4970	0.14%	0.016%
112	13.803	2322	2325	2326	rBV2	5636	4459	0.13%	0.014%
113	13.829	2326	2330	2335	rVV4	11162	13992	0.40%	0.045%
114	13.968	2350	2356	2360	rBV3	5103	6793	0.20%	0.022%
115	14.128	2376	2386	2408	rBV2	1903391	3176559	91.92%	10.169%
116	14.289	2411	2416	2427	rVB6	23926	47305	1.37%	0.151%
117	14.454	2441	2447	2449	rBV4	6216	8580	0.25%	0.027%
118	14.502	2452	2456	2458	rVB2	3073	3986	0.12%	0.013%
119	14.588	2467	2472	2474	rBV4	6399	7607	0.22%	0.024%
120	14.641	2481	2482	2487	rVB4	5023	6307	0.18%	0.020%
121	14.689	2487	2491	2494	rBV3	6147	7850	0.23%	0.025%
122	14.769	2498	2506	2512	rVV7	7520	16221	0.47%	0.052%
123	14.823	2514	2516	2521	rVB4	4123	6016	0.17%	0.019%
124	14.871	2521	2525	2527	rBV4	3583	4360	0.13%	0.014%
125	14.994	2544	2548	2550	rBV4	5845	8068	0.23%	0.026%
126	15.053	2554	2559	2569	rVV9	21332	53082	1.54%	0.170%
127	15.117	2569	2571	2573	rVV3	6253	5897	0.17%	0.019%
128	15.170	2577	2581	2586	rVV6	8935	14196	0.41%	0.045%
129	15.218	2586	2590	2592	rVV4	5128	5278	0.15%	0.017%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201238.d
Acq On : 18 Aug 2021 7:42 pm
Operator : kristis
Sample : jd29923-5
Misc : op34922,ef8807,31.3,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

130	15.256	2592	2597	2598	rVV4	6490	7549	0.22%	0.024%
131	15.309	2602	2607	2610	rVV5	5271	7783	0.23%	0.025%
132	15.357	2614	2616	2621	rVV4	3116	4027	0.12%	0.013%
133	15.517	2642	2646	2649	rBV4	4370	4832	0.14%	0.015%
134	15.603	2660	2662	2667	rVB3	4945	5772	0.17%	0.018%
135	15.651	2667	2671	2674	rBV3	4303	5772	0.17%	0.018%
136	15.672	2674	2675	2681	rVB4	3902	4668	0.14%	0.015%
137	15.715	2681	2683	2690	rVB4	7207	7646	0.22%	0.024%
138	15.784	2690	2696	2704	rBV6	19261	48210	1.40%	0.154%
139	15.833	2704	2705	2708	rBV	5417	4108	0.12%	0.013%
140	15.923	2719	2722	2724	rVB3	6628	5788	0.17%	0.019%
141	16.025	2739	2741	2744	rVB3	6233	5303	0.15%	0.017%
142	16.068	2746	2749	2754	rBV4	6702	10227	0.30%	0.033%
143	16.148	2762	2764	2769	rVB5	6657	9002	0.26%	0.029%
144	16.190	2769	2772	2776	rBV5	5750	7903	0.23%	0.025%
145	16.228	2776	2779	2781	rBV3	4348	4083	0.12%	0.013%
146	16.335	2796	2799	2805	rBV7	13563	18811	0.54%	0.060%
147	16.404	2811	2812	2817	rVB4	7216	5301	0.15%	0.017%
148	16.495	2821	2829	2838	rBV10	16495	41112	1.19%	0.132%
149	16.596	2844	2848	2849	rVB4	6138	5395	0.16%	0.017%
150	16.623	2851	2853	2857	rVB4	4840	4224	0.12%	0.014%
151	16.677	2861	2863	2865	rBV2	4816	3843	0.11%	0.012%
152	16.698	2865	2867	2872	rVB3	5828	7731	0.22%	0.025%
153	16.741	2872	2875	2878	rVB4	6517	8318	0.24%	0.027%
154	16.767	2878	2880	2885	rBV4	6786	9336	0.27%	0.030%
155	16.842	2893	2894	2897	rVB2	4509	4019	0.12%	0.013%
156	16.890	2900	2903	2907	rBV4	3383	4630	0.13%	0.015%
157	16.970	2915	2918	2920	rBV3	6222	3731	0.11%	0.012%
158	16.986	2920	2921	2925	rVB4	5629	4233	0.12%	0.014%
159	17.013	2925	2926	2930	rVB3	5561	5456	0.16%	0.017%
160	17.061	2930	2935	2937	rBV4	7633	9533	0.28%	0.031%
161	17.120	2941	2946	2947	rBV5	8047	10000	0.29%	0.032%
162	17.179	2947	2957	2973	rBV	1716424	3008511	87.06%	9.631%
163	17.360	2989	2991	2993	rBV3	5712	5268	0.15%	0.017%
164	17.601	3031	3036	3039	rVB6	5048	7306	0.21%	0.023%
165	17.670	3046	3049	3051	rBV4	5868	5118	0.15%	0.016%
166	17.729	3059	3060	3063	rVB3	5328	4767	0.14%	0.015%
167	17.766	3064	3067	3068	rVB2	4793	3527	0.10%	0.011%
168	17.852	3080	3083	3088	rVB5	11426	12087	0.35%	0.039%
169	17.911	3091	3094	3097	rBV2	9812	9189	0.27%	0.029%
170	18.007	3111	3112	3117	rBV3	7105	8111	0.23%	0.026%
171	18.066	3118	3123	3125	rVV6	9028	12186	0.35%	0.039%
172	18.092	3125	3128	3131	rVV5	8549	12414	0.36%	0.040%
173	18.130	3133	3135	3137	rVV3	7449	5235	0.15%	0.017%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201238.d
Acq On : 18 Aug 2021 7:42 pm
Operator : kristis
Sample : jd29923-5
Misc : op34922,ef8807,31.3,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

174	18.178	3140	3144	3147	rVB5	5696	7533	0.22%	0.024%
175	18.204	3147	3149	3151	rVB3	7651	4402	0.13%	0.014%
176	18.221	3151	3152	3157	rBV4	13410	14495	0.42%	0.046%
177	18.258	3157	3159	3161	rVB3	5424	4307	0.12%	0.014%
178	18.338	3168	3174	3176	rBV6	13477	19683	0.57%	0.063%
179	18.408	3186	3187	3191	rVB3	6005	6109	0.18%	0.020%
180	18.440	3191	3193	3196	rBV4	7146	6573	0.19%	0.021%
181	18.461	3196	3197	3200	rBV3	8491	8361	0.24%	0.027%
182	18.498	3200	3204	3209	rVV8	8997	19801	0.57%	0.063%
183	18.557	3213	3215	3218	rVV3	7723	6407	0.19%	0.021%
184	18.696	3237	3241	3243	rBV4	6999	7481	0.22%	0.024%
185	18.717	3243	3245	3250	rVV6	8738	12277	0.36%	0.039%
186	18.920	3281	3283	3288	rBV6	7853	10455	0.30%	0.033%
187	18.990	3293	3296	3297	rBV3	8794	9548	0.28%	0.031%
188	19.123	3318	3321	3325	rBV6	9247	12685	0.37%	0.041%
189	19.230	3337	3341	3344	rVB6	9126	10376	0.30%	0.033%
190	19.300	3344	3354	3356	rBV9	17625	32914	0.95%	0.105%
191	19.476	3385	3387	3390	rVB4	7252	7932	0.23%	0.025%
192	19.519	3393	3395	3398	rBV3	13312	14094	0.41%	0.045%
193	19.604	3407	3411	3413	rVB5	8793	10922	0.32%	0.035%
194	19.647	3417	3419	3424	rBV6	8746	13911	0.40%	0.045%
195	19.738	3433	3436	3438	rBV4	6905	5969	0.17%	0.019%
196	19.866	3457	3460	3462	rBV4	9748	10317	0.30%	0.033%
197	20.005	3484	3486	3491	rBV5	8379	10063	0.29%	0.032%
198	20.112	3505	3506	3508	rBV2	15140	7281	0.21%	0.023%
199	20.245	3528	3531	3533	rVB3	8490	8304	0.24%	0.027%
200	20.325	3543	3546	3548	rBV4	6729	7659	0.22%	0.025%

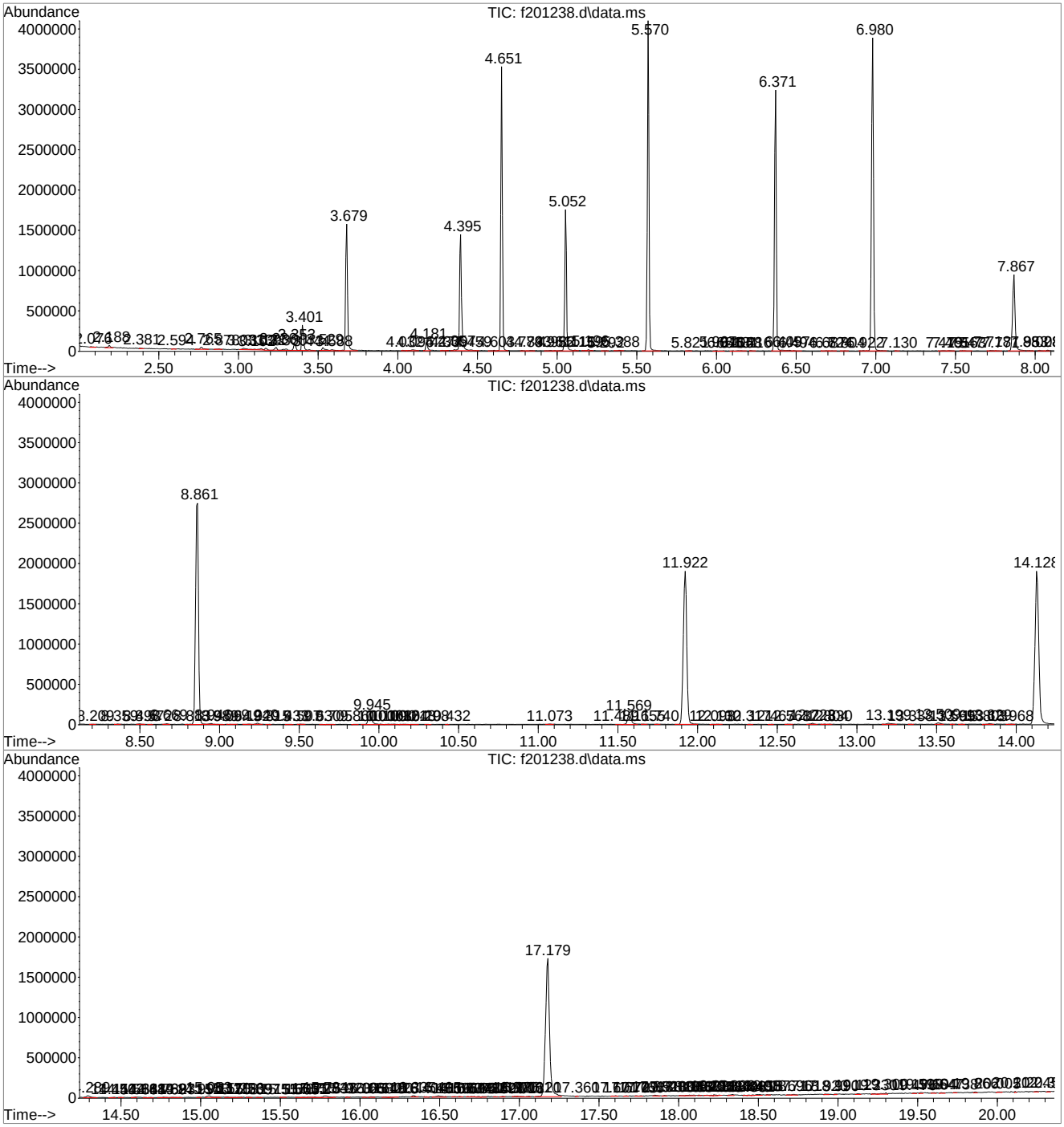
Sum of corrected areas: 31238915

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201238.d
Acq On : 18 Aug 2021 7:42 pm
Operator : kristis
Sample : jd29923-5
Misc : op34922,ef8807,31.3,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201238.d
Acq On : 18 Aug 2021 7:42 pm
Operator : kristis
Sample : jd29923-5
Misc : op34922,ef8807,31.3,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS

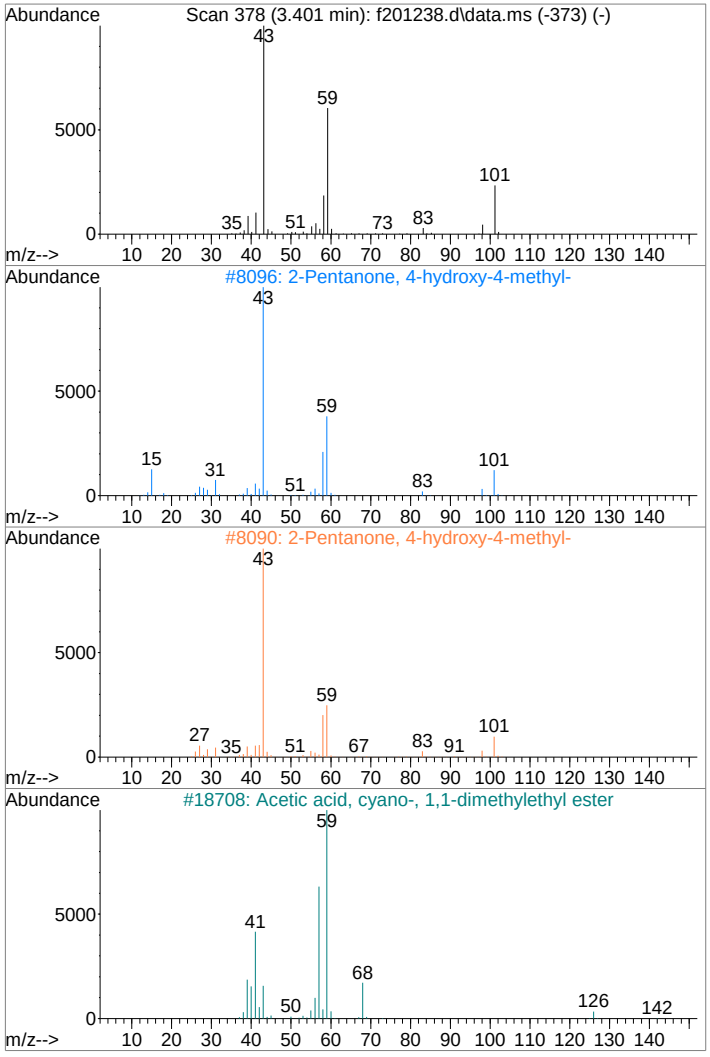
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P

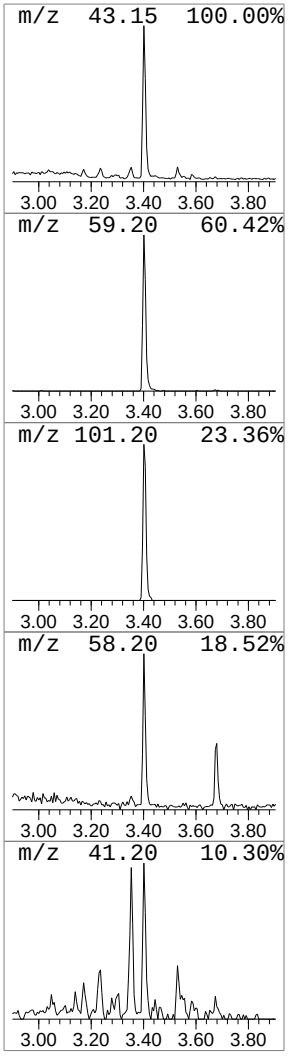
****

Peak Number 1 System artifact/aldol-conde... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.401	4.28 ppm	253423	1,4-Dichlorobenzene-d4b	4.651

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	45
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
4	5-Hexen-2-one	98	C6H10O	000109-49-9	9
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201238.d
Acq On : 18 Aug 2021 7:42 pm
Operator : kristis
Sample : jd29923-5
Misc : op34922,ef8807,31.3,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
System artifact...	3.401	4.3	ppm	253423	2	4.651	2368710	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201239.d
Acq On : 18 Aug 2021 8:10 pm
Operator : kristis
Sample : jd29923-6 Inst : GCMSF
Misc : op34922,ef8807,30.3,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 01:50:37 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration

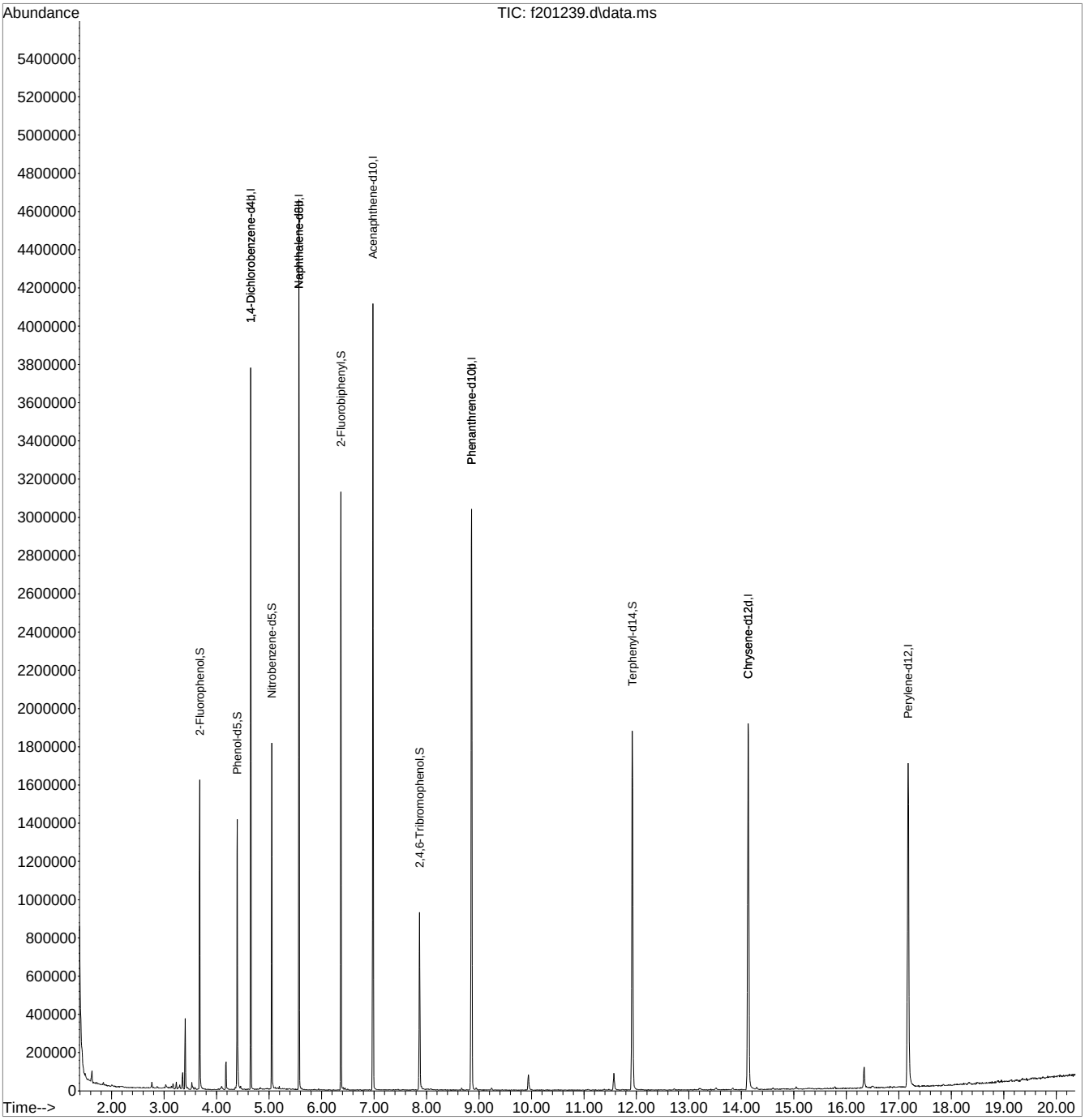
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.651	152	384632	40.00	ppm	0.00
24) Naphthalene-d8	5.570	136	1466908	40.00	ppm	0.00
46) Acenaphthene-d10	6.981	164	806238	40.00	ppm	0.00
69) Phenanthrene-d10	8.861	188	1430591	40.00	ppm	0.00
83) Chrysene-d12	14.128	240	1141014	40.00	ppm	-0.02
92) Perylene-d12	17.179	264	1072534	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4b	4.651	152	384632	40.00	ppm	0.00
104) Phenanthrene-d10b	8.861	188	1430591	40.00	ppm	0.00
106) Naphthalene-d8b	5.570	136	1466908	40.00	ppm	0.00
108) Chrysene-d12d	14.128	240	1141014	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.679	112	325545	27.65	ppm	0.00
Spiked Amount 50.000			Recovery = 55.30%			
8) Phenol-d5	4.395	99	412634	25.85	ppm	0.00
Spiked Amount 50.000			Recovery = 51.70%			
25) Nitrobenzene-d5	5.052	82	451322	31.85	ppm	0.00
Spiked Amount 50.000			Recovery = 63.70%			
51) 2-Fluorobiphenyl	6.372	172	799465	29.81	ppm	0.00
Spiked Amount 50.000			Recovery = 59.62%			
73) 2,4,6-Tribromophenol	7.867	330	111124	29.51	ppm	0.00
Spiked Amount 50.000			Recovery = 59.02%			
86) Terphenyl-d14	11.922	244	997681	36.66	ppm	0.00
Spiked Amount 50.000			Recovery = 73.32%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201239.d
Acq On : 18 Aug 2021 8:10 pm
Operator : kristis
Sample : jd29923-6 Inst : GCMSF
Misc : op34922,ef8807,30.3,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 01:50:37 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201239.d
Acq On : 18 Aug 2021 8:10 pm
Operator : kristis
Sample : jd29923-6
Misc : op34922,ef8807,30.3,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: f201239.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.055	124	126	132	rVB5	7852	11541	0.31%	0.036%
2	2.114	132	137	138	rVB5	5092	6605	0.18%	0.020%
3	2.140	138	142	144	rVB3	6979	6637	0.18%	0.021%
4	2.167	144	147	148	rBV3	5242	6147	0.17%	0.019%
5	2.295	170	171	176	rVB3	3331	3746	0.10%	0.012%
6	2.381	185	187	190	rVB2	3539	3658	0.10%	0.011%
7	2.408	190	192	195	rBV3	3178	4039	0.11%	0.013%
8	2.504	204	210	212	rVB6	3449	4735	0.13%	0.015%
9	2.600	226	228	231	rBV3	4239	4089	0.11%	0.013%
10	2.669	237	241	243	rBV5	3652	4258	0.12%	0.013%
11	2.707	244	248	251	rVV5	3911	4465	0.12%	0.014%
12	2.766	251	259	263	rVV	32290	36017	0.98%	0.112%
13	2.792	263	264	269	rVB4	7608	6542	0.18%	0.020%
14	2.867	274	278	285	rVB6	10393	14161	0.39%	0.044%
15	3.006	299	304	306	rVB6	5129	4779	0.13%	0.015%
16	3.033	306	309	318	rVB6	19031	26999	0.74%	0.084%
17	3.139	326	329	331	rBV3	11121	8067	0.22%	0.025%
18	3.172	331	335	341	rVB2	28412	32317	0.88%	0.100%
19	3.236	341	347	350	rVB	38249	37913	1.03%	0.118%
20	3.300	350	359	362	rBV4	22123	33905	0.92%	0.105%
21	3.353	364	369	374	rVB	86825	84887	2.31%	0.263%
22	3.401	374	378	384	rBV	370285	295856	8.06%	0.918%
23	3.444	384	386	393	rVB3	9813	11156	0.30%	0.035%
24	3.529	396	402	409	rBV2	38095	49106	1.34%	0.152%
25	3.588	409	413	418	rVB4	10573	11611	0.32%	0.036%
26	3.652	420	425	426	rBV4	3689	4265	0.12%	0.013%
27	3.679	426	430	442	rBV	1618826	1272907	34.66%	3.948%
28	4.037	492	497	499	rBV3	4817	4465	0.12%	0.014%
29	4.101	499	509	518	rVB3	17369	39821	1.08%	0.123%
30	4.181	519	524	534	rBV	145489	133855	3.64%	0.415%
31	4.277	539	542	546	rVB4	3536	3917	0.11%	0.012%
32	4.325	546	551	552	rVB2	3950	4811	0.13%	0.015%
33	4.357	553	557	558	rVV3	12669	10834	0.29%	0.034%
34	4.395	558	564	574	rVV	1414001	1304242	35.51%	4.045%
35	4.459	574	576	585	rVV	19901	23451	0.64%	0.073%
36	4.534	585	590	594	rVB6	6022	10952	0.30%	0.034%
37	4.571	594	597	600	rBV4	4974	6119	0.17%	0.019%
38	4.603	600	603	607	rBV4	6669	8365	0.23%	0.026%
39	4.651	607	612	621	rVV	3776949	2544098	69.27%	7.890%
40	4.705	621	622	625	rVB3	4910	4417	0.12%	0.014%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201239.d
Acq On : 18 Aug 2021 8:10 pm
Operator : kristis
Sample : jd29923-6
Misc : op34922,ef8807,30.3,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

41	4.833	638	646	653	rVV6	10558	20613	0.56%	0.064%
42	4.945	662	667	668	rVV3	5355	6380	0.17%	0.020%
43	4.961	668	670	676	rVB6	5987	8849	0.24%	0.027%
44	5.052	680	687	697	rVV	1811951	1317888	35.88%	4.087%
45	5.116	697	699	703	rVV4	10637	9998	0.27%	0.031%
46	5.148	703	705	708	rVV4	7676	8793	0.24%	0.027%
47	5.196	712	714	720	rVB2	15086	10882	0.30%	0.034%
48	5.383	744	749	755	rVB4	5851	13007	0.35%	0.040%
49	5.447	757	761	765	rBV4	3339	3616	0.10%	0.011%
50	5.506	771	772	777	rBV2	4733	3870	0.11%	0.012%
51	5.570	780	784	802	rVB	4657999	3185178	86.72%	9.878%
52	5.944	847	854	856	rVV3	7540	5770	0.16%	0.018%
53	5.998	859	864	868	rBV5	3890	5005	0.14%	0.016%
54	6.136	884	890	891	rBV3	4251	4609	0.13%	0.014%
55	6.372	928	934	939	rBV	3130769	2470380	67.26%	7.661%
56	6.414	939	942	944	rVV3	15198	15470	0.42%	0.048%
57	6.452	944	949	954	rVV6	11763	18728	0.51%	0.058%
58	6.500	954	958	963	rVV4	6533	8226	0.22%	0.026%
59	6.612	978	979	985	rVV2	3142	4251	0.12%	0.013%
60	6.665	985	989	990	rVV2	3573	3933	0.11%	0.012%
61	6.687	990	993	996	rVV3	5386	5357	0.15%	0.017%
62	6.729	996	1001	1009	rVB3	4151	10369	0.28%	0.032%
63	6.874	1025	1028	1033	rVB2	2475	4150	0.11%	0.013%
64	6.916	1033	1036	1041	rBV2	5222	6470	0.18%	0.020%
65	6.981	1041	1048	1063	rVV	4115070	3577507	97.41%	11.095%
66	7.066	1063	1064	1069	rVB3	3191	4231	0.12%	0.013%
67	7.301	1105	1108	1114	rBV4	2518	4509	0.12%	0.014%
68	7.461	1135	1138	1141	rVB2	6596	6913	0.19%	0.021%
69	7.670	1175	1177	1181	rVB2	3660	4420	0.12%	0.014%
70	7.739	1184	1190	1194	rVB3	4048	7045	0.19%	0.022%
71	7.867	1205	1214	1225	rBV	930706	1027896	27.99%	3.188%
72	7.942	1226	1228	1234	rVV5	9409	14953	0.41%	0.046%
73	7.990	1234	1237	1239	rVV3	6529	8219	0.22%	0.025%
74	8.033	1240	1245	1248	rVV4	7533	13931	0.38%	0.043%
75	8.081	1248	1254	1265	rVB3	7128	20505	0.56%	0.064%
76	8.209	1272	1278	1281	rBV3	4833	8175	0.22%	0.025%
77	8.669	1359	1364	1369	rVB4	12623	15503	0.42%	0.048%
78	8.760	1377	1381	1384	rBV4	3638	4630	0.13%	0.014%
79	8.861	1390	1400	1410	rBV	3038175	3672743	100.00%	11.390%
80	8.946	1410	1416	1420	rVB4	10393	14642	0.40%	0.045%
81	9.171	1453	1458	1463	rBV3	2428	5159	0.14%	0.016%
82	9.240	1464	1471	1478	rVV	11729	19249	0.52%	0.060%
83	9.315	1482	1485	1489	rVB4	2984	4194	0.11%	0.013%
84	9.497	1513	1519	1521	rVB3	3144	4587	0.12%	0.014%
85	9.625	1538	1543	1547	rBV3	3737	6445	0.18%	0.020%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201239.d
Acq On : 18 Aug 2021 8:10 pm
Operator : kristis
Sample : jd29923-6
Misc : op34922,ef8807,30.3,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

86	9.940	1596	1602	1614	rBV4	80643	117988	3.21%	0.366%
87	10.282	1660	1666	1667	rBV4	3474	4581	0.12%	0.014%
88	10.410	1685	1690	1693	rVB3	2795	3808	0.10%	0.012%
89	10.512	1704	1709	1714	rVV5	3982	5765	0.16%	0.018%
90	10.565	1717	1719	1724	rVB2	3034	4021	0.11%	0.012%
91	10.635	1730	1732	1741	rVB4	3468	6368	0.17%	0.020%
92	10.725	1745	1749	1751	rBV3	2733	3918	0.11%	0.012%
93	10.982	1793	1797	1802	rVB2	2624	5275	0.14%	0.016%
94	11.078	1802	1815	1826	rVB6	6479	27233	0.74%	0.084%
95	11.158	1826	1830	1834	rBV3	3820	6903	0.19%	0.021%
96	11.388	1868	1873	1880	rBV4	5886	10921	0.30%	0.034%
97	11.479	1888	1890	1895	rBV5	5412	4951	0.13%	0.015%
98	11.570	1901	1907	1917	rBV2	88532	137399	3.74%	0.426%
99	11.730	1933	1937	1942	rBV4	4821	9097	0.25%	0.028%
100	11.847	1955	1959	1962	rBV2	2618	3646	0.10%	0.011%
101	11.922	1964	1973	1989	rVV	1877776	2795242	76.11%	8.669%
102	12.125	2010	2011	2016	rVB3	3731	3977	0.11%	0.012%
103	12.227	2025	2030	2034	rBV4	5092	7240	0.20%	0.022%
104	12.531	2086	2087	2094	rVB3	4107	5575	0.15%	0.017%
105	12.638	2099	2107	2109	rVB3	3391	6294	0.17%	0.020%
106	12.686	2109	2116	2118	rBV4	3082	6143	0.17%	0.019%
107	12.723	2118	2123	2128	rVB4	8297	12210	0.33%	0.038%
108	13.108	2192	2195	2199	rVB4	5287	5230	0.14%	0.016%
109	13.194	2205	2211	2212	rBV4	7716	7394	0.20%	0.023%
110	13.263	2220	2224	2226	rVB2	3605	4025	0.11%	0.012%
111	13.332	2234	2237	2241	rVB3	3318	3608	0.10%	0.011%
112	13.402	2241	2250	2252	rBV4	3543	5950	0.16%	0.018%
113	13.519	2265	2272	2278	rBV7	12133	25572	0.70%	0.079%
114	13.658	2293	2298	2300	rBV4	5084	5062	0.14%	0.016%
115	13.765	2313	2318	2322	rBV4	3543	6308	0.17%	0.020%
116	13.840	2325	2332	2336	rVV3	9827	16692	0.45%	0.052%
117	13.899	2340	2343	2348	rVB3	4555	3856	0.10%	0.012%
118	14.128	2376	2386	2410	rBV	1917492	3270322	89.04%	10.142%
119	14.289	2412	2416	2425	rVB6	12838	24744	0.67%	0.077%
120	14.380	2428	2433	2435	rBV3	4057	6914	0.19%	0.021%
121	14.449	2442	2446	2449	rBV4	3368	4379	0.12%	0.014%
122	14.524	2458	2460	2463	rVB3	4294	4160	0.11%	0.013%
123	14.561	2463	2467	2468	rBV2	4151	3831	0.10%	0.012%
124	14.604	2468	2475	2482	rBV9	9677	17748	0.48%	0.055%
125	14.684	2487	2490	2496	rVB5	4148	4828	0.13%	0.015%
126	14.967	2539	2543	2546	rBV4	4628	5840	0.16%	0.018%
127	15.042	2550	2557	2566	rVV7	13628	24265	0.66%	0.075%
128	15.117	2566	2571	2574	rVV5	2412	3983	0.11%	0.012%
129	15.181	2581	2583	2587	rBV5	3597	4087	0.11%	0.013%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201239.d
Acq On : 18 Aug 2021 8:10 pm
Operator : kristis
Sample : jd29923-6
Misc : op34922,ef8807,30.3,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

130	15.224	2587	2591	2594	rBV4	4358	5729	0.16%	0.018%
131	15.293	2600	2604	2606	rVB5	4134	4322	0.12%	0.013%
132	15.352	2611	2615	2619	rVB6	5318	8048	0.22%	0.025%
133	15.421	2623	2628	2629	rVB4	4251	5377	0.15%	0.017%
134	15.432	2629	2630	2633	rBV2	4591	3977	0.11%	0.012%
135	15.464	2633	2636	2638	rVV4	5373	4887	0.13%	0.015%
136	15.491	2638	2641	2645	rVB3	6575	7052	0.19%	0.022%
137	15.635	2665	2668	2672	rVB4	5526	6451	0.18%	0.020%
138	15.699	2677	2680	2684	rVB4	6584	5323	0.14%	0.017%
139	15.731	2684	2686	2689	rBV4	5307	4795	0.13%	0.015%
140	15.779	2689	2695	2701	rVB8	12748	22463	0.61%	0.070%
141	15.934	2723	2724	2730	rVB5	5233	6394	0.17%	0.020%
142	15.977	2730	2732	2734	rVB3	5369	3750	0.10%	0.012%
143	16.020	2738	2740	2744	rVB5	3313	4134	0.11%	0.013%
144	16.073	2747	2750	2756	rVV6	4906	5597	0.15%	0.017%
145	16.239	2777	2781	2785	rVB4	4195	4898	0.13%	0.015%
146	16.271	2785	2787	2789	rBV3	5639	3795	0.10%	0.012%
147	16.287	2789	2790	2792	rBV2	5059	3750	0.10%	0.012%
148	16.340	2792	2800	2806	rBV2	108399	174008	4.74%	0.540%
149	16.495	2824	2829	2837	rBV10	11557	29712	0.81%	0.092%
150	16.623	2850	2853	2855	rBV3	4570	3773	0.10%	0.012%
151	16.666	2857	2861	2865	rVV7	4882	7652	0.21%	0.024%
152	16.746	2871	2876	2878	rBV4	5387	6444	0.18%	0.020%
153	16.832	2890	2892	2901	rVB10	10369	16529	0.45%	0.051%
154	16.906	2901	2906	2908	rBV4	7645	11173	0.30%	0.035%
155	16.997	2917	2923	2924	rBV5	3915	5983	0.16%	0.019%
156	17.040	2930	2931	2934	rVB2	5750	4158	0.11%	0.013%
157	17.179	2946	2957	2981	rBV2	1697062	3149216	85.75%	9.767%
158	17.382	2992	2995	2996	rVB2	9299	6738	0.18%	0.021%
159	17.462	3008	3010	3012	rBV3	7473	5583	0.15%	0.017%
160	17.564	3028	3029	3033	rBV4	6171	4545	0.12%	0.014%
161	17.617	3036	3039	3040	rVV3	5794	4803	0.13%	0.015%
162	17.654	3042	3046	3047	rVB3	7267	6722	0.18%	0.021%
163	17.761	3064	3066	3071	rBV6	7650	9158	0.25%	0.028%
164	17.847	3076	3082	3086	rBV6	8968	18643	0.51%	0.058%
165	17.943	3097	3100	3103	rVV4	4694	3792	0.10%	0.012%
166	17.975	3103	3106	3108	rVB4	6552	6703	0.18%	0.021%
167	18.039	3114	3118	3121	rBV6	3940	5952	0.16%	0.018%
168	18.071	3121	3124	3127	rVV5	6636	8077	0.22%	0.025%
169	18.108	3129	3131	3134	rVB3	7301	6186	0.17%	0.019%
170	18.157	3139	3140	3142	rBV2	5330	4575	0.12%	0.014%
171	18.226	3150	3153	3154	rBV3	6999	5126	0.14%	0.016%
172	18.263	3157	3160	3167	rVB7	7610	12663	0.34%	0.039%
173	18.338	3167	3174	3183	rBV7	13657	39104	1.06%	0.121%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201239.d
Acq On : 18 Aug 2021 8:10 pm
Operator : kristis
Sample : jd29923-6
Misc : op34922,ef8807,30.3,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

174	18.434	3190	3192	3196	rVB5	7447	7413	0.20%	0.023%
175	18.477	3196	3200	3201	rBV3	11807	10402	0.28%	0.032%
176	18.498	3202	3204	3208	rVV4	10223	13411	0.37%	0.042%
177	18.557	3212	3215	3219	rBV4	7221	10392	0.28%	0.032%
178	18.589	3219	3221	3224	rBV5	7845	5979	0.16%	0.019%
179	18.648	3229	3232	3234	rVB3	3896	4187	0.11%	0.013%
180	18.696	3238	3241	3243	rBV4	5672	5502	0.15%	0.017%
181	18.739	3247	3249	3253	rVB5	8290	7589	0.21%	0.024%
182	18.776	3254	3256	3259	rBV3	9241	5828	0.16%	0.018%
183	18.830	3264	3266	3269	rBV4	10289	11327	0.31%	0.035%
184	18.899	3273	3279	3281	rVV4	10257	15614	0.43%	0.048%
185	18.931	3283	3285	3286	rBV2	7730	6150	0.17%	0.019%
186	18.958	3287	3290	3293	rVV5	10516	8152	0.22%	0.025%
187	18.990	3294	3296	3298	rBV3	6323	6337	0.17%	0.020%
188	19.129	3318	3322	3324	rBV5	6738	8878	0.24%	0.028%
189	19.214	3336	3338	3340	rBV2	9371	7679	0.21%	0.024%
190	19.300	3351	3354	3355	rVB3	9012	8028	0.22%	0.025%
191	19.337	3356	3361	3362	rVV5	11227	12239	0.33%	0.038%
192	19.359	3363	3365	3369	rVB5	11249	10895	0.30%	0.034%
193	19.455	3382	3383	3388	rBV5	9159	13326	0.36%	0.041%
194	19.588	3406	3408	3410	rVB2	7449	4417	0.12%	0.014%
195	19.706	3429	3430	3433	rBV3	8285	8303	0.23%	0.026%
196	19.743	3434	3437	3442	rVV7	10505	15383	0.42%	0.048%
197	20.053	3488	3495	3496	rVB7	9230	16783	0.46%	0.052%
198	20.069	3497	3498	3501	rVB3	9988	5291	0.14%	0.016%
199	20.171	3515	3517	3519	rBV3	7085	6553	0.18%	0.020%
200	20.229	3526	3528	3529	rBV	8574	6887	0.19%	0.021%

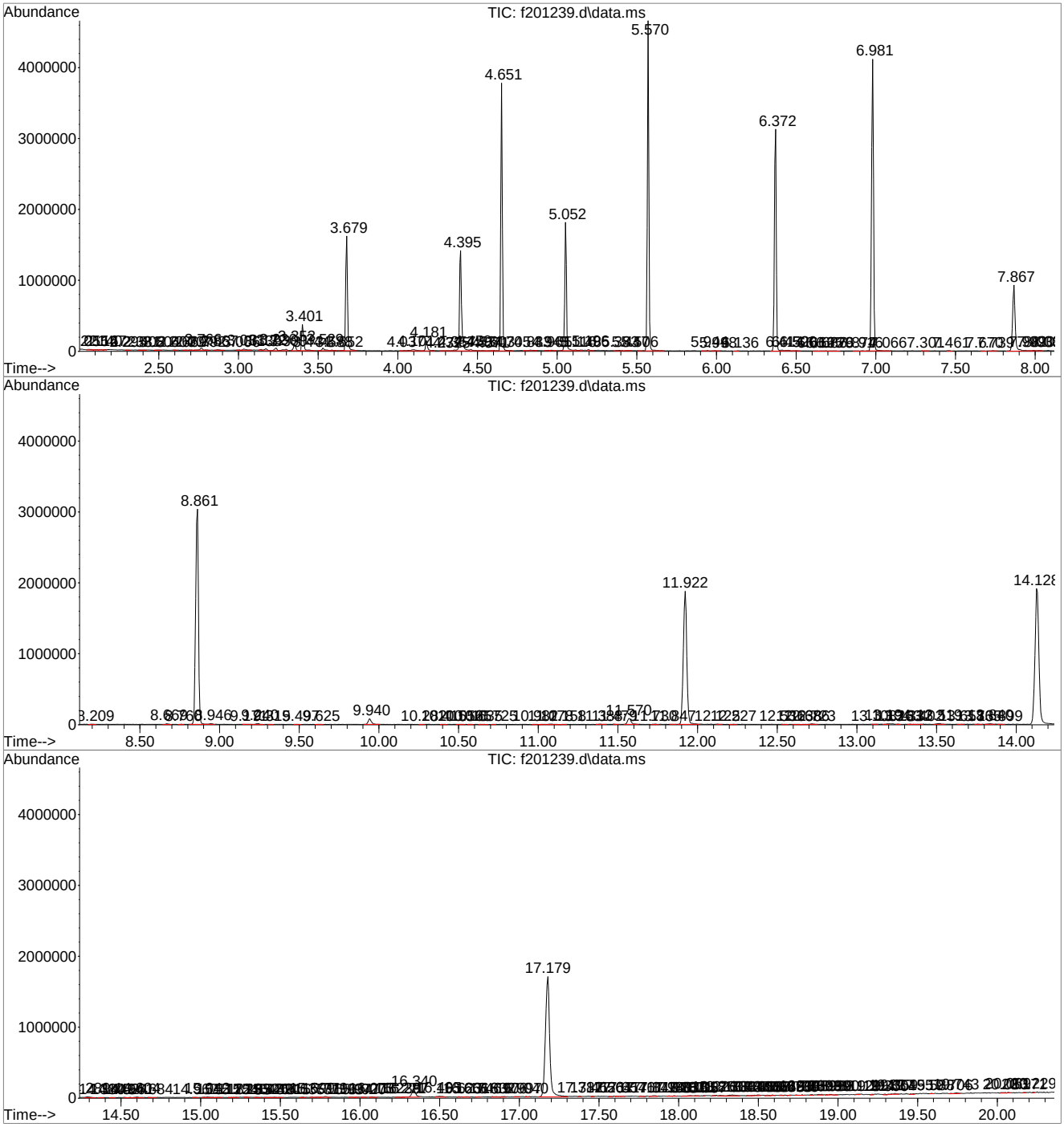
Sum of corrected areas: 32245061

LSC Report - Integrated Chromatogram

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Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201239.d
Acq On    : 18 Aug 2021   8:10 pm
Operator  : kristis
Sample    : jd29923-6
Misc      : op34922,ef8807,30.3,,,1,1
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P
```



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201239.d
Acq On : 18 Aug 2021 8:10 pm
Operator : kristis
Sample : jd29923-6
Misc : op34922,ef8807,30.3,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS

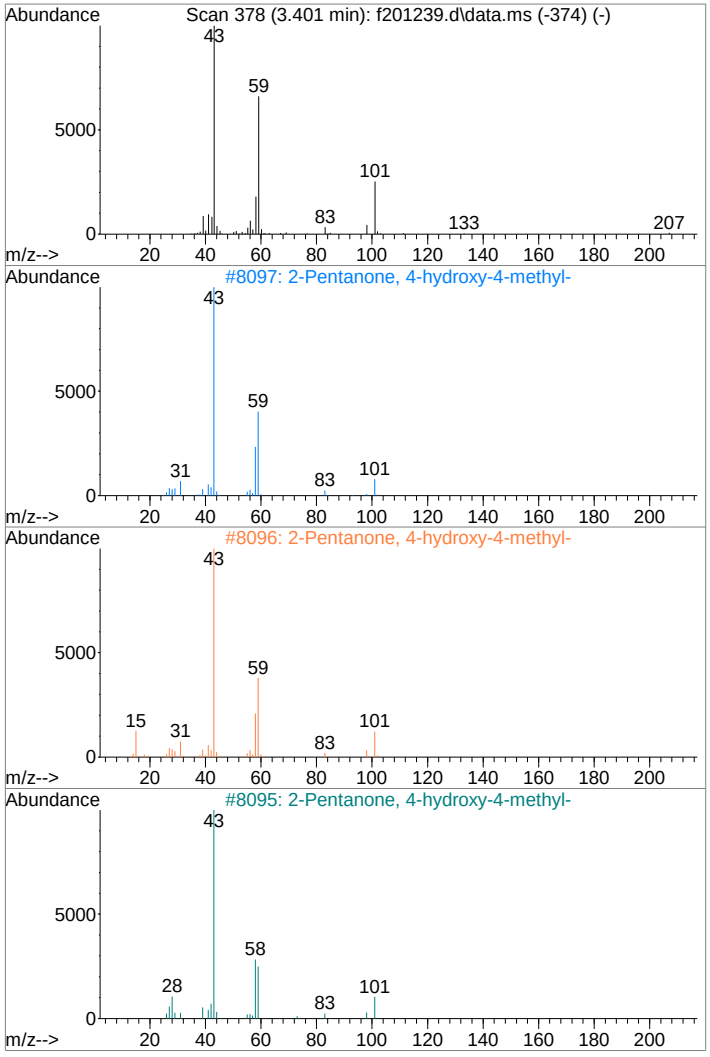
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P

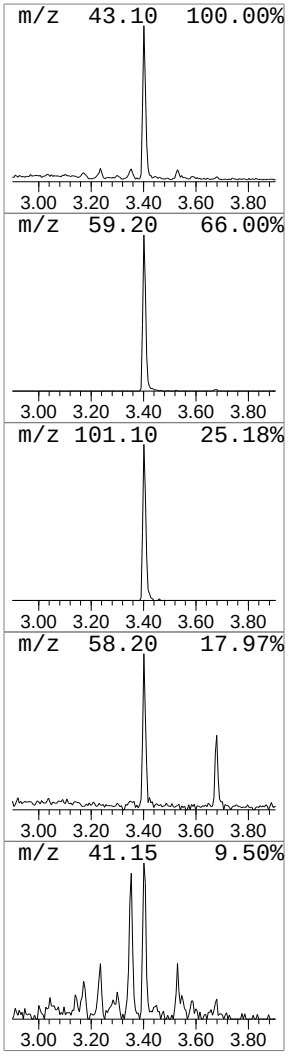
****

Peak Number 1 System artifact/aldol-conde... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.401	4.65 ppm	295856	1,4-Dichlorobenzene-d4b	4.651

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
4	Hydrazine, 1,1-bis(1-methylethyl)-	116	C6H16N2	000921-14-2	50
5	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	38





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201239.d
Acq On : 18 Aug 2021 8:10 pm
Operator : kristis
Sample : jd29923-6
Misc : op34922,ef8807,30.3,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
System artifact...	3.401	4.7	ppm	295856	2	4.651	2544100	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201240a.d
Acq On : 18 Aug 2021 9:16 pm
Operator : kristis
Sample : jd29923-7 Inst : GCMSF
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 01:54:54 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration

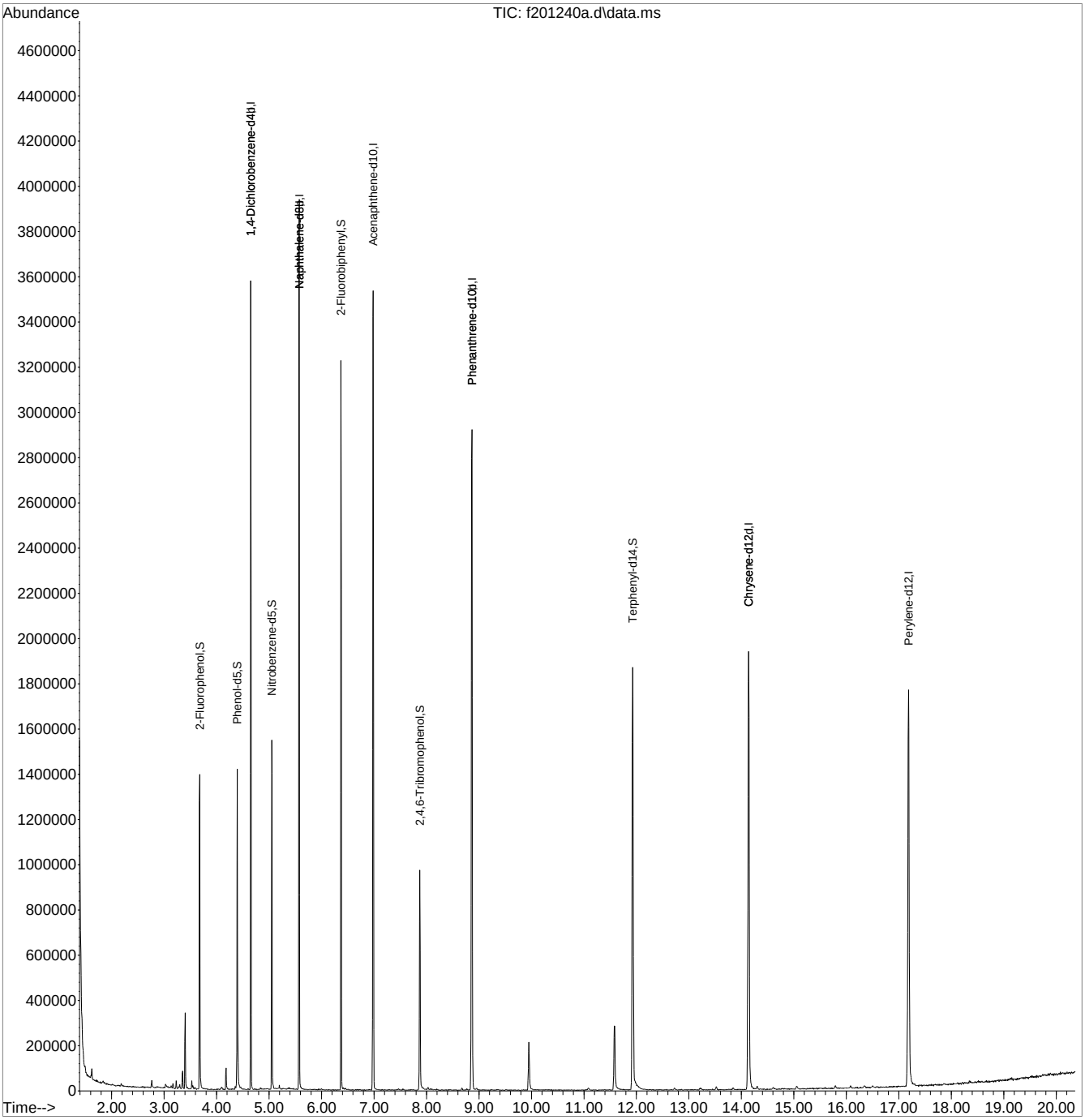
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.651	152	376238	40.00	ppm	0.00
24) Naphthalene-d8	5.575	136	1430266	40.00	ppm	0.00
46) Acenaphthene-d10	6.986	164	789658	40.00	ppm	0.00
69) Phenanthrene-d10	8.866	188	1410829	40.00	ppm	0.00
83) Chrysene-d12	14.139	240	1139086	40.00	ppm	0.00
92) Perylene-d12	17.184	264	1088221	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4b	4.651	152	376238	40.00	ppm	0.00
104) Phenanthrene-d10b	8.866	188	1410829	40.00	ppm	0.00
106) Naphthalene-d8b	5.575	136	1430266	40.00	ppm	0.00
108) Chrysene-d12d	14.139	240	1139086	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.679	112	309686	26.89	ppm	0.00
Spiked Amount 50.000			Recovery = 53.78%			
8) Phenol-d5	4.395	99	396296	25.38	ppm	0.00
Spiked Amount 50.000			Recovery = 50.76%			
25) Nitrobenzene-d5	5.052	82	418313	30.27	ppm	0.00
Spiked Amount 50.000			Recovery = 60.54%			
51) 2-Fluorobiphenyl	6.371	172	784788	29.88	ppm	0.00
Spiked Amount 50.000			Recovery = 59.76%			
73) 2,4,6-Tribromophenol	7.873	330	110303	29.70	ppm	0.00
Spiked Amount 50.000			Recovery = 59.40%			
86) Terphenyl-d14	11.927	244	1007435	37.08	ppm	0.00
Spiked Amount 50.000			Recovery = 74.16%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201240a.d
Acq On : 18 Aug 2021 9:16 pm
Operator : kristis
Sample : jd29923-7 Inst : GCMSF
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 01:54:54 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201240a.d
Acq On : 18 Aug 2021 9:16 pm
Operator : kristis
Sample : jd29923-7
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: f201240a.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.130	136	140	142	rBV4	4540	5141	0.14%	0.016%
2	2.183	146	150	153	rBV5	13300	13527	0.38%	0.042%
3	2.210	153	155	158	rVB4	4803	4894	0.14%	0.015%
4	2.413	188	193	197	rBV5	5141	6742	0.19%	0.021%
5	2.594	225	227	230	rVB3	7511	4355	0.12%	0.014%
6	2.626	230	233	235	rVB4	5438	4688	0.13%	0.015%
7	2.648	235	237	239	rBV3	4359	4306	0.12%	0.014%
8	2.691	243	245	250	rVV5	5484	5252	0.15%	0.016%
9	2.765	254	259	268	rBV2	33034	37554	1.05%	0.118%
10	2.867	274	278	281	rVB5	4944	3571	0.10%	0.011%
11	3.006	299	304	305	rBV4	4468	3642	0.10%	0.011%
12	3.027	305	308	315	rBV5	15950	22057	0.61%	0.069%
13	3.134	325	328	332	rVB5	10337	11542	0.32%	0.036%
14	3.171	332	335	341	rVB4	23356	26626	0.74%	0.084%
15	3.230	341	346	351	rBV	35539	34734	0.97%	0.109%
16	3.300	351	359	364	rVB5	20394	28191	0.78%	0.089%
17	3.353	364	369	374	rBV	78907	78605	2.19%	0.247%
18	3.401	374	378	385	rBV	335998	265844	7.40%	0.835%
19	3.529	399	402	404	rBV	35990	27903	0.78%	0.088%
20	3.545	404	405	410	rVB2	15361	13708	0.38%	0.043%
21	3.583	410	412	419	rVB5	10184	15302	0.43%	0.048%
22	3.631	419	421	424	rBV2	3983	5299	0.15%	0.017%
23	3.679	424	430	443	rBV	1391147	1207916	33.61%	3.793%
24	3.818	453	456	458	rVB2	3677	3492	0.10%	0.011%
25	3.898	467	471	472	rBV2	3347	3350	0.09%	0.011%
26	4.026	494	495	501	rVB3	3962	5403	0.15%	0.017%
27	4.096	501	508	515	rBV4	11800	24745	0.69%	0.078%
28	4.181	519	524	530	rBV	96503	86718	2.41%	0.272%
29	4.357	554	557	559	rBV	13401	12442	0.35%	0.039%
30	4.395	559	564	574	rVV	1417954	1251695	34.83%	3.930%
31	4.459	574	576	583	rVB3	11505	16659	0.46%	0.052%
32	4.603	597	603	608	rVB3	5673	8807	0.25%	0.028%
33	4.651	608	612	621	rBV	3578262	2462157	68.52%	7.731%
34	4.726	623	626	629	rBV3	4833	3816	0.11%	0.012%
35	4.795	635	639	641	rVB4	3817	4180	0.12%	0.013%
36	4.843	641	648	650	rBV3	9138	13449	0.37%	0.042%
37	4.918	661	662	667	rBV4	2598	3559	0.10%	0.011%
38	4.956	667	669	672	rVV2	4165	3562	0.10%	0.011%
39	4.977	672	673	678	rVB4	3734	4685	0.13%	0.015%
40	5.052	682	687	698	rBV	1544622	1234644	34.36%	3.877%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201240a.d
Acq On : 18 Aug 2021 9:16 pm
Operator : kristis
Sample : jd29923-7
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

41	5.127	698	701	704	rVV5	3475	5209	0.14%	0.016%
42	5.196	707	714	722	rVB	19089	24447	0.68%	0.077%
43	5.266	724	727	731	rBV4	3767	4824	0.13%	0.015%
44	5.378	740	748	749	rBV4	8258	12514	0.35%	0.039%
45	5.463	763	764	768	rVB2	5182	3617	0.10%	0.011%
46	5.527	772	776	778	rVB3	4260	4229	0.12%	0.013%
47	5.575	778	785	795	rBV	3937605	3098333	86.22%	9.728%
48	5.634	795	796	805	rVB4	4438	4254	0.12%	0.013%
49	5.789	820	825	830	rVB4	2682	6036	0.17%	0.019%
50	5.842	830	835	837	rBV3	3609	4158	0.12%	0.013%
51	5.949	851	855	859	rBV4	6330	7131	0.20%	0.022%
52	5.997	859	864	868	rBV3	6159	7031	0.20%	0.022%
53	6.136	888	890	897	rBV3	4145	4852	0.14%	0.015%
54	6.222	904	906	909	rVB	4162	3529	0.10%	0.011%
55	6.307	919	922	925	rBV	3443	3438	0.10%	0.011%
56	6.371	925	934	940	rVV	3227045	2375690	66.11%	7.459%
57	6.414	940	942	946	rVB3	7726	6378	0.18%	0.020%
58	6.654	983	987	989	rVB3	5031	4901	0.14%	0.015%
59	6.676	989	991	993	rBV2	5153	3598	0.10%	0.011%
60	6.740	997	1003	1007	rVV4	4967	7945	0.22%	0.025%
61	6.911	1032	1035	1042	rVB3	4195	8065	0.22%	0.025%
62	6.986	1042	1049	1068	rBV	3536094	3472541	96.63%	10.903%
63	7.151	1076	1080	1085	rBV3	4486	4387	0.12%	0.014%
64	7.205	1085	1090	1094	rBV2	2963	3651	0.10%	0.011%
65	7.280	1101	1104	1109	rBV3	2996	4340	0.12%	0.014%
66	7.434	1128	1133	1135	rBV3	3403	3513	0.10%	0.011%
67	7.467	1135	1139	1142	rVB3	5862	6087	0.17%	0.019%
68	7.563	1155	1157	1160	rVB2	4262	3848	0.11%	0.012%
69	7.873	1205	1215	1234	rBV	974388	1051149	29.25%	3.300%
70	7.995	1234	1238	1239	rVV3	7150	8599	0.24%	0.027%
71	8.033	1239	1245	1250	rVV5	14119	25905	0.72%	0.081%
72	8.086	1250	1255	1257	rVV3	7828	11934	0.33%	0.037%
73	8.108	1257	1259	1263	rVV3	5469	7703	0.21%	0.024%
74	8.156	1263	1268	1273	rVV3	4973	10776	0.30%	0.034%
75	8.193	1273	1275	1283	rVB2	6619	12109	0.34%	0.038%
76	8.449	1319	1323	1331	rBV4	3727	7131	0.20%	0.022%
77	8.674	1360	1365	1370	rVB3	10660	12950	0.36%	0.041%
78	8.770	1375	1383	1390	rBV5	7149	10669	0.30%	0.033%
79	8.866	1390	1401	1413	rBV	2921478	3593491	100.00%	11.283%
80	8.957	1414	1418	1423	rVB4	8150	12803	0.36%	0.040%
81	9.075	1438	1440	1445	rBV	2847	3503	0.10%	0.011%
82	9.160	1451	1456	1458	rVB3	2951	3925	0.11%	0.012%
83	9.240	1465	1471	1477	rVB4	4128	8286	0.23%	0.026%
84	9.342	1482	1490	1492	rVV4	3831	5543	0.15%	0.017%
85	9.358	1492	1493	1500	rVB2	4590	6544	0.18%	0.021%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201240a.d
Acq On : 18 Aug 2021 9:16 pm
Operator : kristis
Sample : jd29923-7
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

86	9.438	1506	1508	1513	rBV3	2802	4277	0.12%	0.013%
87	9.518	1518	1523	1529	rBV4	3450	8296	0.23%	0.026%
88	9.748	1563	1566	1572	rVB3	2927	4073	0.11%	0.013%
89	9.806	1572	1577	1582	rBV3	2320	4101	0.11%	0.013%
90	9.951	1596	1604	1621	rBV3	212892	310200	8.63%	0.974%
91	10.186	1644	1648	1653	rVB5	2857	6234	0.17%	0.020%
92	10.261	1659	1662	1665	rVV2	2795	3445	0.10%	0.011%
93	10.298	1665	1669	1673	rVB5	3009	4458	0.12%	0.014%
94	11.083	1811	1816	1826	rVB6	10827	22289	0.62%	0.070%
95	11.227	1838	1843	1848	rVB3	3388	7458	0.21%	0.023%
96	11.297	1852	1856	1859	rBV3	2682	3768	0.10%	0.012%
97	11.398	1868	1875	1880	rBV3	3020	4577	0.13%	0.014%
98	11.585	1901	1910	1925	rBV2	284757	502536	13.98%	1.578%
99	11.927	1963	1974	1989	rBV	1870339	2940404	81.83%	9.232%
100	12.098	2004	2006	2011	rVB4	4488	4231	0.12%	0.013%
101	12.157	2015	2017	2023	rVB4	3209	4449	0.12%	0.014%
102	12.253	2030	2035	2036	rBV3	3302	3793	0.11%	0.012%
103	12.307	2042	2045	2048	rVB2	3640	4321	0.12%	0.014%
104	12.376	2053	2058	2062	rBV5	3384	3578	0.10%	0.011%
105	12.456	2072	2073	2080	rVB3	2487	3602	0.10%	0.011%
106	12.723	2118	2123	2128	rVB4	9626	15201	0.42%	0.048%
107	12.761	2128	2130	2135	rVB3	3168	3747	0.10%	0.012%
108	12.814	2135	2140	2143	rBV3	2525	4366	0.12%	0.014%
109	12.862	2146	2149	2154	rVB5	4494	5282	0.15%	0.017%
110	12.916	2154	2159	2162	rBV2	3139	4078	0.11%	0.013%
111	13.001	2170	2175	2180	rBV5	3103	7436	0.21%	0.023%
112	13.209	2208	2214	2223	rBV9	9439	22906	0.64%	0.072%
113	13.412	2247	2252	2257	rBV2	3540	5972	0.17%	0.019%
114	13.450	2257	2259	2265	rVV3	5266	4811	0.13%	0.015%
115	13.525	2265	2273	2281	rVB5	15376	30431	0.85%	0.096%
116	13.578	2281	2283	2287	rBV3	3570	4556	0.13%	0.014%
117	13.637	2291	2294	2298	rVB3	2863	3901	0.11%	0.012%
118	13.765	2312	2318	2319	rBV3	3203	5056	0.14%	0.016%
119	13.840	2328	2332	2338	rVB4	9088	13001	0.36%	0.041%
120	14.139	2375	2388	2405	rBV2	1938344	3239054	90.14%	10.170%
121	14.299	2414	2418	2426	rVB7	15363	25871	0.72%	0.081%
122	14.347	2426	2427	2437	rBV6	2958	7106	0.20%	0.022%
123	14.438	2440	2444	2449	rVB6	5123	8851	0.25%	0.028%
124	14.486	2449	2453	2454	rBV	4595	3824	0.11%	0.012%
125	14.497	2454	2455	2462	rVB4	4372	4837	0.13%	0.015%
126	14.545	2462	2464	2468	rBV3	4675	5616	0.16%	0.018%
127	14.609	2468	2476	2479	rVV8	9489	15648	0.44%	0.049%
128	14.630	2479	2480	2490	rVB5	5965	8167	0.23%	0.026%
129	14.705	2490	2494	2496	rBV4	3502	3599	0.10%	0.011%

LSC Area Percent Report

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Data File : f201240a.d
Acq On : 18 Aug 2021 9:16 pm
Operator : kristis
Sample : jd29923-7
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

130	14.769	2503	2506	2508	rBV4	5376	4935	0.14%	0.015%
131	14.817	2513	2515	2518	rBV3	5084	3807	0.11%	0.012%
132	14.908	2529	2532	2535	rBV3	4241	3992	0.11%	0.013%
133	15.053	2553	2559	2568	rBV8	14358	30089	0.84%	0.094%
134	15.170	2577	2581	2583	rVB3	4148	3494	0.10%	0.011%
135	15.207	2583	2588	2593	rVB6	4397	7593	0.21%	0.024%
136	15.256	2593	2597	2599	rBV2	5131	4490	0.12%	0.014%
137	15.304	2603	2606	2607	rBV2	4302	3649	0.10%	0.011%
138	15.320	2607	2609	2611	rVV2	3984	3652	0.10%	0.011%
139	15.346	2611	2614	2617	rVB5	4910	3840	0.11%	0.012%
140	15.368	2617	2618	2620	rVB2	5642	3344	0.09%	0.010%
141	15.389	2620	2622	2625	rBV3	5119	5434	0.15%	0.017%
142	15.421	2625	2628	2631	rVV5	3768	3939	0.11%	0.012%
143	15.560	2653	2654	2659	rBV4	4485	6161	0.17%	0.019%
144	15.592	2659	2660	2665	rVB4	7416	6779	0.19%	0.021%
145	15.662	2672	2673	2678	rVB4	4597	6186	0.17%	0.019%
146	15.704	2678	2681	2682	rBV2	4717	3808	0.11%	0.012%
147	15.795	2691	2698	2702	rBV7	13501	25079	0.70%	0.079%
148	15.843	2706	2707	2712	rVB4	5593	6557	0.18%	0.021%
149	15.881	2712	2714	2717	rBV4	4122	4278	0.12%	0.013%
150	15.993	2727	2735	2738	rVB9	3712	7080	0.20%	0.022%
151	16.078	2744	2751	2757	rVB6	12505	22696	0.63%	0.071%
152	16.137	2757	2762	2765	rBV5	3888	6465	0.18%	0.020%
153	16.185	2768	2771	2773	rVV3	6452	5491	0.15%	0.017%
154	16.212	2774	2776	2780	rVB4	6479	4427	0.12%	0.014%
155	16.340	2795	2800	2807	rVB6	10181	21590	0.60%	0.068%
156	16.383	2807	2808	2812	rBV2	4112	4395	0.12%	0.014%
157	16.468	2821	2824	2825	rBV3	4595	4511	0.13%	0.014%
158	16.500	2826	2830	2839	rVV8	9957	20633	0.57%	0.065%
159	16.580	2842	2845	2852	rVB7	5333	9929	0.28%	0.031%
160	16.655	2856	2859	2861	rBV4	4039	4068	0.11%	0.013%
161	16.837	2892	2893	2896	rBV3	4200	3390	0.09%	0.011%
162	16.890	2899	2903	2904	rVB4	5603	3789	0.11%	0.012%
163	16.901	2904	2905	2908	rBV3	5950	4415	0.12%	0.014%
164	16.922	2908	2909	2914	rBV3	3115	3376	0.09%	0.011%
165	16.997	2918	2923	2926	rBV6	5950	9967	0.28%	0.031%
166	17.184	2945	2958	2976	rBV2	1755869	3128114	87.05%	9.822%
167	17.403	2996	2999	3001	rBV4	6122	5009	0.14%	0.016%
168	17.574	3027	3031	3034	rBV4	7388	9357	0.26%	0.029%
169	17.670	3047	3049	3051	rBV2	7995	8170	0.23%	0.026%
170	17.750	3061	3064	3066	rVB3	5083	4602	0.13%	0.014%
171	17.863	3080	3085	3090	rBV7	5355	8686	0.24%	0.027%
172	17.969	3099	3105	3106	rBV6	6095	10202	0.28%	0.032%
173	18.033	3116	3117	3120	rBV3	7408	5024	0.14%	0.016%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201240a.d
Acq On : 18 Aug 2021 9:16 pm
Operator : kristis
Sample : jd29923-7
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

174	18.119	3132	3133	3138	rVB5	9150	8397	0.23%	0.026%
175	18.151	3138	3139	3141	rBV2	7330	3672	0.10%	0.012%
176	18.178	3141	3144	3146	rVB4	7677	7192	0.20%	0.023%
177	18.210	3146	3150	3154	rBV6	9323	15427	0.43%	0.048%
178	18.253	3154	3158	3160	rBV4	9122	12231	0.34%	0.038%
179	18.306	3165	3168	3169	rVB3	5308	4519	0.13%	0.014%
180	18.343	3173	3175	3178	rBV3	11734	10853	0.30%	0.034%
181	18.450	3194	3195	3197	rBV2	6101	3582	0.10%	0.011%
182	18.504	3201	3205	3206	rBV4	8495	9533	0.27%	0.030%
183	18.653	3231	3233	3235	rBV3	5759	3967	0.11%	0.012%
184	18.712	3243	3244	3247	rVB3	8031	5079	0.14%	0.016%
185	18.862	3269	3272	3273	rBV2	7872	7368	0.21%	0.023%
186	18.926	3281	3284	3287	rBV5	9281	11232	0.31%	0.035%
187	18.984	3291	3295	3296	rBV4	7544	7531	0.21%	0.024%
188	19.070	3306	3311	3312	rBV5	7509	8947	0.25%	0.028%
189	19.129	3318	3322	3324	rBV5	7621	9713	0.27%	0.030%
190	19.150	3324	3326	3328	rBV4	9761	5549	0.15%	0.017%
191	19.203	3332	3336	3339	rBV6	5744	7972	0.22%	0.025%
192	19.257	3344	3346	3349	rBV3	10203	10450	0.29%	0.033%
193	19.385	3368	3370	3373	rBV4	6783	6558	0.18%	0.021%
194	19.417	3374	3376	3378	rBV3	6557	5338	0.15%	0.017%
195	19.481	3386	3388	3389	rBV2	7519	6050	0.17%	0.019%
196	19.631	3414	3416	3420	rBV5	11295	14295	0.40%	0.045%
197	19.679	3421	3425	3427	rVV4	4999	7717	0.21%	0.024%
198	19.887	3462	3464	3469	rVB6	10137	12264	0.34%	0.039%
199	19.962	3476	3478	3481	rBV3	9994	9918	0.28%	0.031%
200	20.080	3498	3500	3501	rBV2	13210	7105	0.20%	0.022%

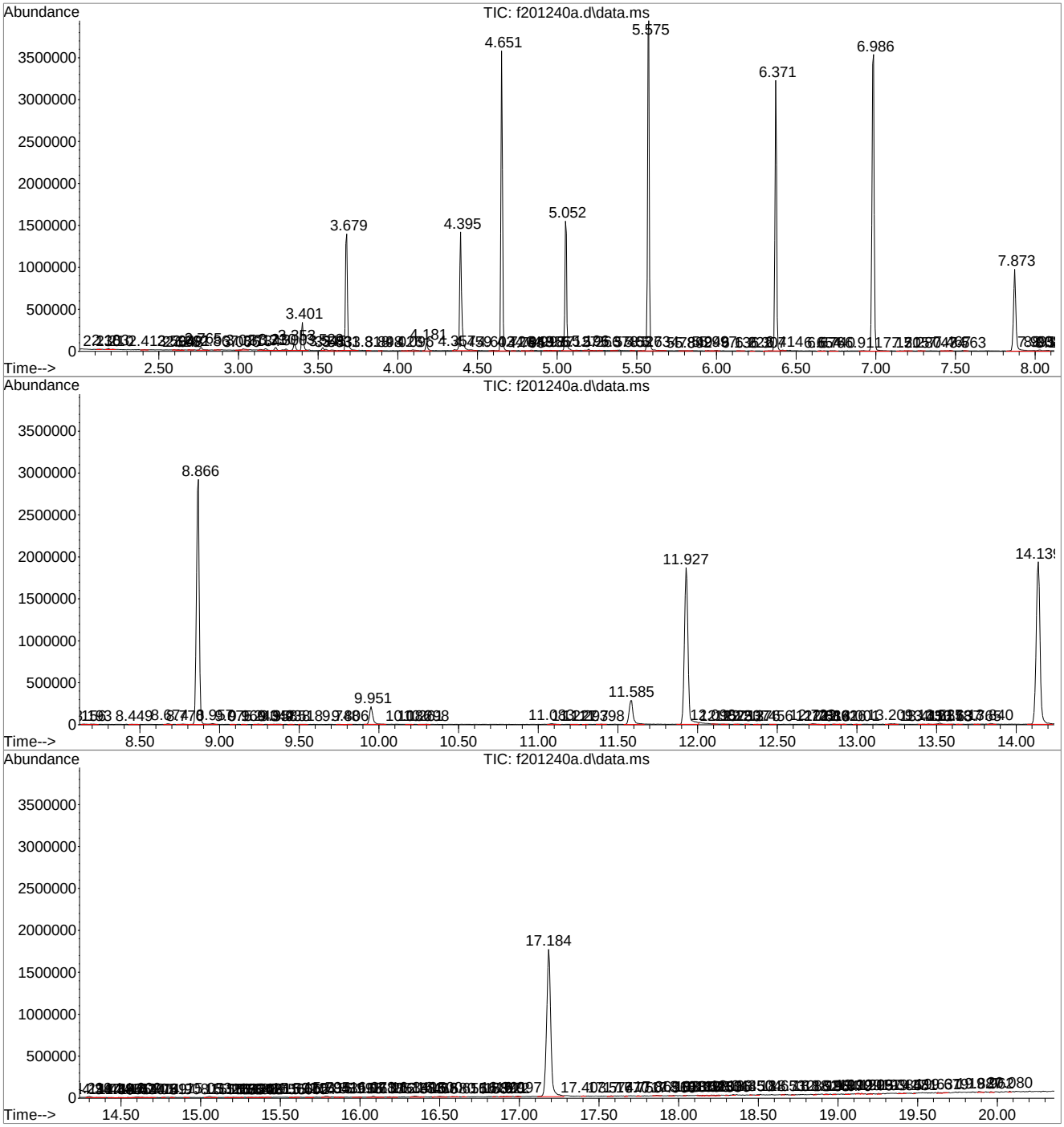
Sum of corrected areas: 31848686

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201240a.d
Acq On : 18 Aug 2021 9:16 pm
Operator : kristis
Sample : jd29923-7
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201240a.d
Acq On : 18 Aug 2021 9:16 pm
Operator : kristis
Sample : jd29923-7
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS

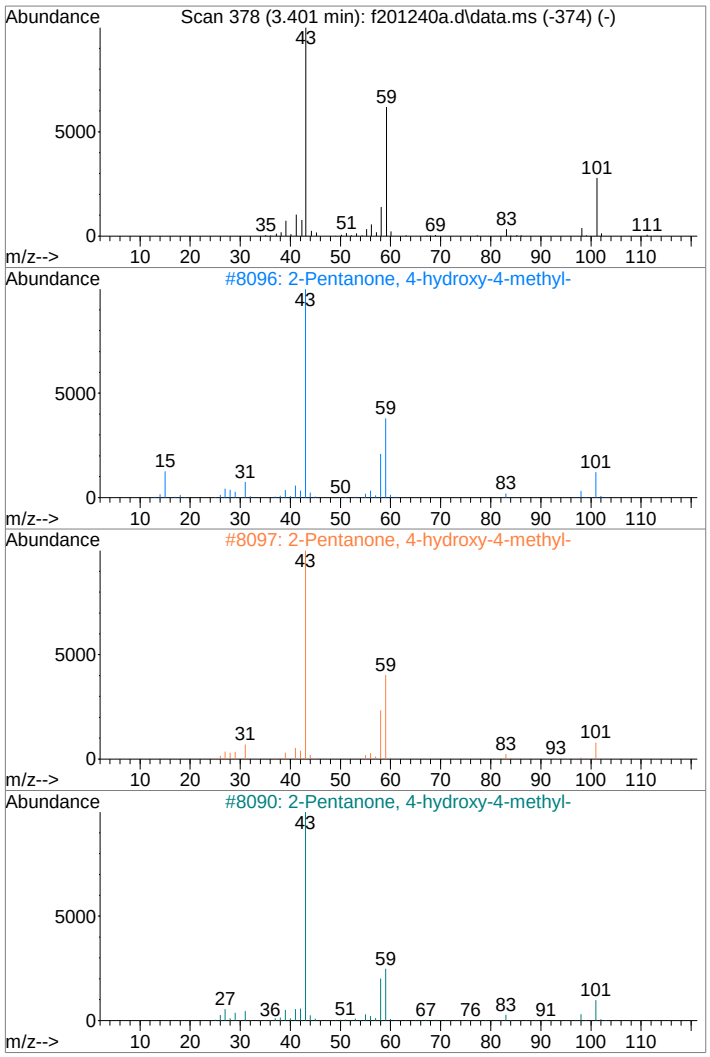
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P

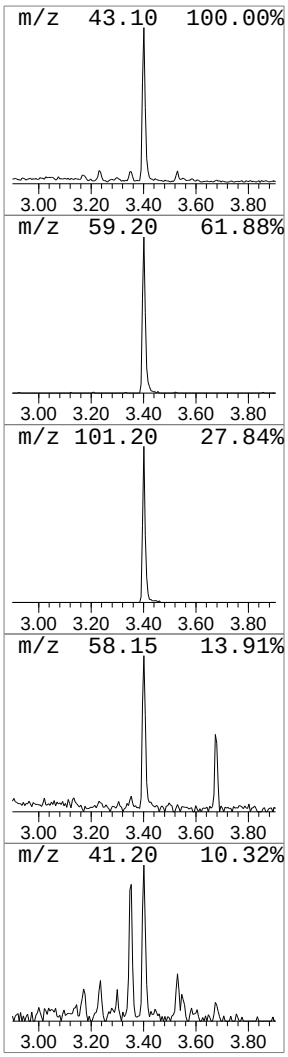
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Peak Number 1 System artifact/aldol-conde... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.401	4.32 ppm	265844	1,4-Dichlorobenzene-d4b	4.651

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	40
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	38
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	32
4	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	23
5	1-Butene, 4-ethoxy-	100	C6H12O	044611-46-3	17





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201240a.d
Acq On : 18 Aug 2021 9:16 pm
Operator : kristis
Sample : jd29923-7
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS

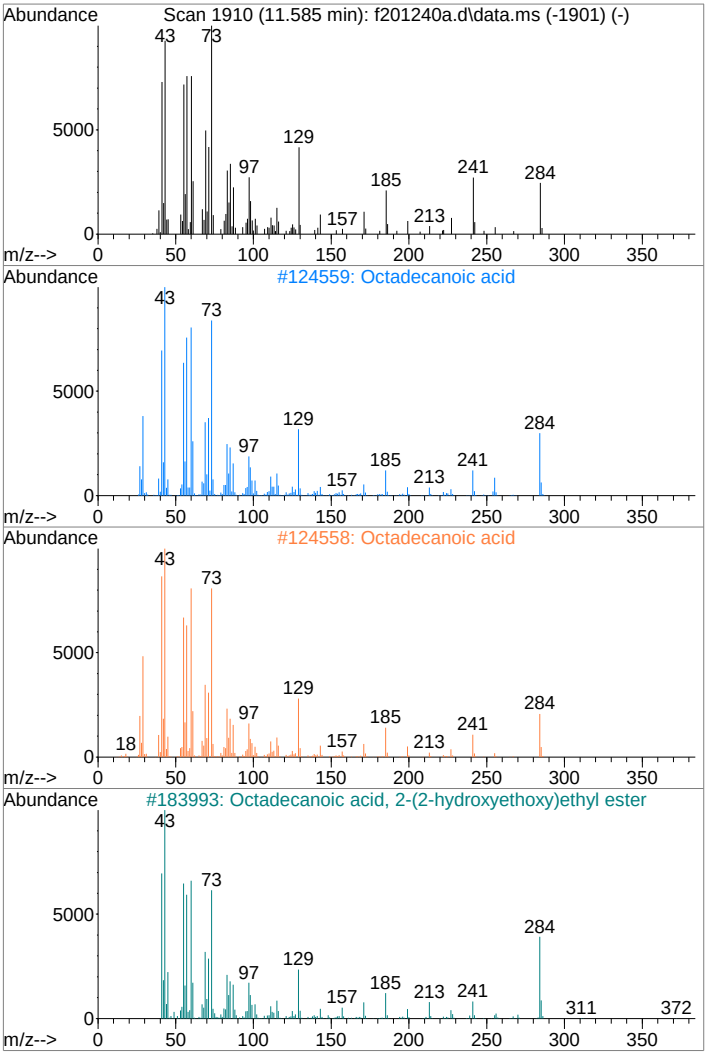
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P

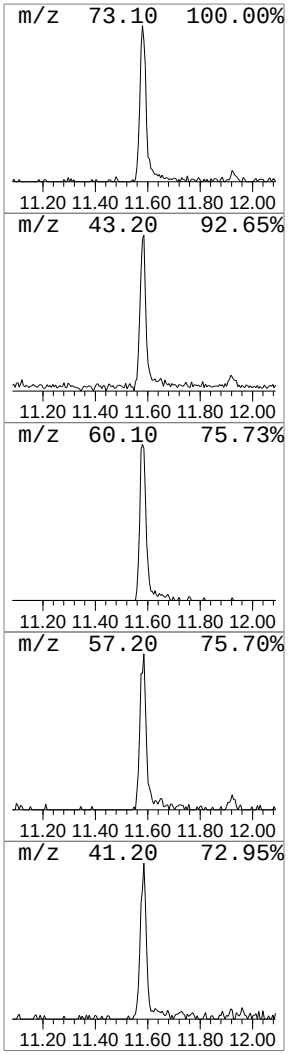
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Peak Number 2 Octadecanoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.585	6.21 ppm	502536	Chrysene-d12	14.139

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	95
2	Octadecanoic acid	284	C18H36O2	000057-11-4	95
3	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	90
4	Octadecanoic acid	284	C18H36O2	000057-11-4	87
5	Octadecanoic acid	284	C18H36O2	000057-11-4	76





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201240a.d
Acq On : 18 Aug 2021 9:16 pm
Operator : kristis
Sample : jd29923-7
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
System artifact...	3.401	4.3	ppm	265844	2	4.651	2462160	40.0
Octadecanoic acid	11.585	6.2	ppm	502536	8	14.139	3239050	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201241.d
Acq On : 18 Aug 2021 9:44 pm
Operator : kristis
Sample : jd29923-8 Inst : GCMSF
Misc : op34922,ef8807,30.7,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 01:58:20 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration

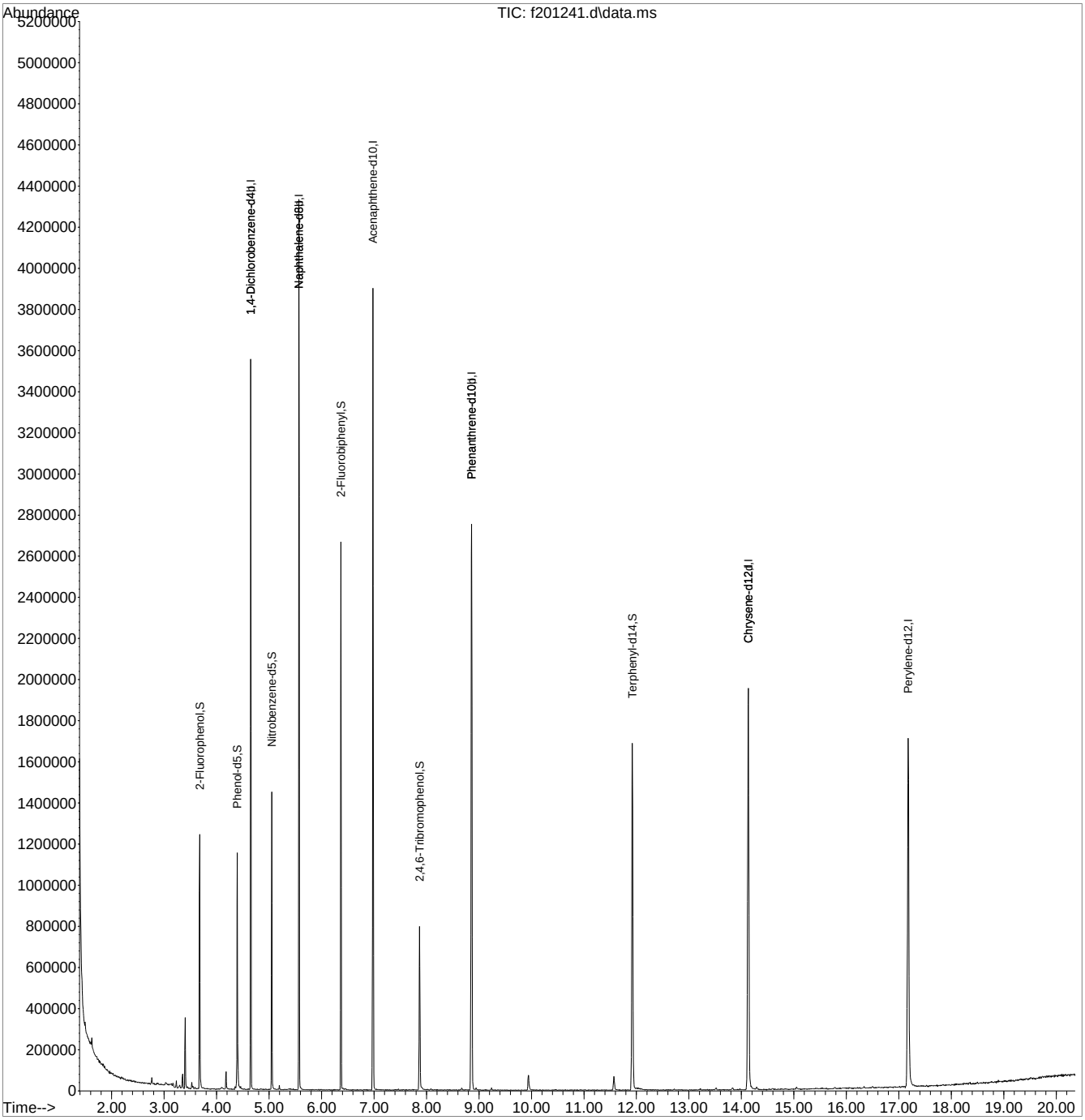
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.651	152	370849	40.00	ppm	0.00
24) Naphthalene-d8	5.570	136	1403241	40.00	ppm	0.00
46) Acenaphthene-d10	6.980	164	782931	40.00	ppm	0.00
69) Phenanthrene-d10	8.861	188	1378836	40.00	ppm	0.00
83) Chrysene-d12	14.134	240	1140602	40.00	ppm	-0.01
92) Perylene-d12	17.179	264	1072127	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4b	4.651	152	370849	40.00	ppm	0.00
104) Phenanthrene-d10b	8.861	188	1378836	40.00	ppm	0.00
106) Naphthalene-d8b	5.570	136	1403241	40.00	ppm	0.00
108) Chrysene-d12d	14.134	240	1140602	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.679	112	256682	22.61	ppm	0.00
Spiked Amount 50.000			Recovery = 45.22%			
8) Phenol-d5	4.395	99	334371	21.73	ppm	0.00
Spiked Amount 50.000			Recovery = 43.46%			
25) Nitrobenzene-d5	5.052	82	358851	26.47	ppm	0.00
Spiked Amount 50.000			Recovery = 52.94%			
51) 2-Fluorobiphenyl	6.371	172	648104	24.89	ppm	0.00
Spiked Amount 50.000			Recovery = 49.78%			
73) 2,4,6-Tribromophenol	7.867	330	99615	27.45	ppm	0.00
Spiked Amount 50.000			Recovery = 54.90%			
86) Terphenyl-d14	11.922	244	882531	32.44	ppm	0.00
Spiked Amount 50.000			Recovery = 64.88%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201241.d
Acq On : 18 Aug 2021 9:44 pm
Operator : kristis
Sample : jd29923-8 Inst : GCMSF
Misc : op34922,ef8807,30.7,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 01:58:20 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201241.d
Acq On : 18 Aug 2021 9:44 pm
Operator : kristis
Sample : jd29923-8
Misc : op34922,ef8807,30.7,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: f201241.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.188	149	151	154	rVB4	10134	9380	0.27%	0.032%
2	2.215	154	156	160	rVB4	6536	6115	0.17%	0.021%
3	2.338	177	179	181	rBV3	5141	4804	0.14%	0.016%
4	2.584	223	225	230	rVB4	8329	8262	0.23%	0.028%
5	2.616	230	231	236	rVV4	5974	6204	0.18%	0.021%
6	2.653	236	238	241	rVV3	5629	6331	0.18%	0.022%
7	2.712	245	249	250	rBV4	6898	5898	0.17%	0.020%
8	2.765	255	259	263	rVB2	30482	26360	0.75%	0.090%
9	2.861	274	277	278	rBV3	9145	6960	0.20%	0.024%
10	2.877	279	280	285	rVB4	9243	9436	0.27%	0.032%
11	3.006	302	304	306	rBV3	3849	4013	0.11%	0.014%
12	3.027	306	308	316	rVV9	13240	28660	0.81%	0.098%
13	3.097	320	321	324	rVV2	8254	9322	0.26%	0.032%
14	3.139	326	329	332	rVV5	12867	15379	0.44%	0.053%
15	3.171	332	335	341	rVB4	20920	29200	0.83%	0.100%
16	3.235	343	347	352	rVB2	34818	29562	0.84%	0.101%
17	3.300	352	359	362	rVB7	15355	23319	0.66%	0.080%
18	3.353	362	369	373	rVB	70498	68126	1.93%	0.233%
19	3.401	373	378	383	rBV	345160	263601	7.47%	0.902%
20	3.449	385	387	389	rVB	7729	4445	0.13%	0.015%
21	3.529	397	402	405	rBV3	33651	35609	1.01%	0.122%
22	3.583	410	412	417	rBV6	8459	11011	0.31%	0.038%
23	3.679	423	430	440	rBV	1238332	1017457	28.81%	3.482%
24	3.748	440	443	448	rVB5	6962	10220	0.29%	0.035%
25	3.925	472	476	478	rBV3	2535	3359	0.10%	0.011%
26	3.962	482	483	488	rVB2	4935	4386	0.12%	0.015%
27	3.999	488	490	493	rBV4	3840	3450	0.10%	0.012%
28	4.096	501	508	510	rBV4	9455	15864	0.45%	0.054%
29	4.181	520	524	530	rBV	84084	66214	1.88%	0.227%
30	4.357	554	557	559	rBV3	14720	15956	0.45%	0.055%
31	4.395	559	564	574	rVV	1150872	1049758	29.73%	3.593%
32	4.459	574	576	580	rVB	13444	11457	0.32%	0.039%
33	4.603	602	603	608	rVB2	3927	3509	0.10%	0.012%
34	4.651	608	612	623	rBV	3552619	2438082	69.05%	8.345%
35	4.779	633	636	641	rVB4	4809	4771	0.14%	0.016%
36	4.865	649	652	656	rVB5	3953	4022	0.11%	0.014%
37	4.897	656	658	662	rVB4	4011	4051	0.11%	0.014%
38	4.934	662	665	668	rBV4	3809	4247	0.12%	0.015%
39	5.052	680	687	697	rBV	1448060	1030874	29.19%	3.528%
40	5.196	705	714	718	rBV4	22940	25182	0.71%	0.086%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201241.d
Acq On : 18 Aug 2021 9:44 pm
Operator : kristis
Sample : jd29923-8
Misc : op34922,ef8807,30.7,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

41	5.372	739	747	750	rBV5	4740	10159	0.29%	0.035%
42	5.458	760	763	767	rVB2	5839	6655	0.19%	0.023%
43	5.570	778	784	800	rBV	4332127	3047650	86.31%	10.431%
44	5.794	823	826	828	rVB	3583	4046	0.11%	0.014%
45	5.826	828	832	838	rBV5	4498	7649	0.22%	0.026%
46	5.885	838	843	852	rVV7	3195	8675	0.25%	0.030%
47	5.944	852	854	857	rVB3	5628	5052	0.14%	0.017%
48	5.981	857	861	862	rBV	3994	4146	0.12%	0.014%
49	5.997	862	864	871	rVB3	3563	5296	0.15%	0.018%
50	6.200	896	902	904	rBV3	2890	4776	0.14%	0.016%
51	6.238	908	909	912	rVV	4608	3330	0.09%	0.011%
52	6.275	912	916	920	rVV6	3281	5124	0.15%	0.018%
53	6.307	920	922	926	rVB2	3554	3823	0.11%	0.013%
54	6.371	926	934	939	rBV	2667725	1975495	55.95%	6.761%
55	6.403	939	940	945	rVV3	9863	13385	0.38%	0.046%
56	6.457	949	950	956	rVV2	7744	9096	0.26%	0.031%
57	6.516	956	961	964	rVB3	2892	4356	0.12%	0.015%
58	6.745	1000	1004	1011	rVB3	2354	3952	0.11%	0.014%
59	6.980	1042	1048	1058	rBV	3899343	3411346	96.61%	11.676%
60	7.466	1136	1139	1142	rBV4	5564	4100	0.12%	0.014%
61	7.552	1153	1155	1164	rVB5	4449	6768	0.19%	0.023%
62	7.734	1184	1189	1191	rVB3	3706	4723	0.13%	0.016%
63	7.867	1207	1214	1231	rBV	796304	890561	25.22%	3.048%
64	7.963	1231	1232	1236	rVV2	4717	5143	0.15%	0.018%
65	8.006	1236	1240	1242	rVV2	4675	5295	0.15%	0.018%
66	8.022	1242	1243	1249	rVV2	4903	5388	0.15%	0.018%
67	8.086	1249	1255	1262	rVB4	7192	13967	0.40%	0.048%
68	8.348	1301	1304	1309	rVB2	2814	3574	0.10%	0.012%
69	8.391	1309	1312	1314	rBV3	3495	3482	0.10%	0.012%
70	8.449	1319	1323	1325	rBV	3271	3986	0.11%	0.014%
71	8.615	1350	1354	1357	rBV	3633	3472	0.10%	0.012%
72	8.668	1361	1364	1370	rVB	9637	11847	0.34%	0.041%
73	8.861	1391	1400	1408	rBV	2753021	3531026	100.00%	12.085%
74	8.946	1413	1416	1423	rVB5	11824	17268	0.49%	0.059%
75	9.096	1441	1444	1448	rBV2	2878	4456	0.13%	0.015%
76	9.240	1462	1471	1476	rBV	12129	13628	0.39%	0.047%
77	9.347	1490	1491	1498	rBV2	2927	4797	0.14%	0.016%
78	9.416	1498	1504	1507	rVB3	2576	3689	0.10%	0.013%
79	9.534	1524	1526	1531	rVB2	3264	3656	0.10%	0.013%
80	9.603	1534	1539	1541	rBV	3943	4619	0.13%	0.016%
81	9.812	1571	1578	1583	rBV2	2849	3675	0.10%	0.013%
82	9.940	1596	1602	1614	rBV3	73532	116791	3.31%	0.400%
83	10.207	1649	1652	1656	rBV2	3101	4696	0.13%	0.016%
84	10.453	1696	1698	1701	rBV2	4809	3966	0.11%	0.014%
85	10.950	1789	1791	1797	rVV2	2357	3629	0.10%	0.012%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201241.d
Acq On : 18 Aug 2021 9:44 pm
Operator : kristis
Sample : jd29923-8
Misc : op34922,ef8807,30.7,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

86	11.024	1801	1805	1810	rVB4	3531	6944	0.20%	0.024%
87	11.094	1815	1818	1822	rBV2	3281	5206	0.15%	0.018%
88	11.169	1826	1832	1834	rBV3	3035	3397	0.10%	0.012%
89	11.270	1847	1851	1854	rVB3	2798	3950	0.11%	0.014%
90	11.569	1902	1907	1917	rBV3	66552	102829	2.91%	0.352%
91	11.665	1922	1925	1927	rVB3	3728	4051	0.11%	0.014%
92	11.682	1927	1928	1934	rBV3	3999	4231	0.12%	0.014%
93	11.740	1936	1939	1944	rBV3	2937	4497	0.13%	0.015%
94	11.922	1962	1973	1984	rBV	1688436	2444516	69.23%	8.367%
95	12.002	1984	1988	1990	rVV5	12348	18375	0.52%	0.063%
96	12.029	1992	1993	1999	rVV2	12243	19072	0.54%	0.065%
97	12.093	2003	2005	2013	rVV6	8043	15302	0.43%	0.052%
98	12.152	2013	2016	2018	rVB3	4334	3868	0.11%	0.013%
99	12.178	2018	2021	2023	rBV2	4310	3717	0.11%	0.013%
100	12.226	2027	2030	2033	rBV4	3569	4580	0.13%	0.016%
101	12.258	2033	2036	2039	rVB3	4024	3802	0.11%	0.013%
102	12.312	2043	2046	2049	rBV3	5105	4854	0.14%	0.017%
103	12.515	2081	2084	2090	rVB5	3296	3877	0.11%	0.013%
104	12.723	2116	2123	2127	rBV4	5922	9881	0.28%	0.034%
105	12.873	2148	2151	2153	rVB2	4111	4287	0.12%	0.015%
106	13.017	2172	2178	2181	rBV3	4079	6109	0.17%	0.021%
107	13.135	2199	2200	2205	rBV4	3544	3487	0.10%	0.012%
108	13.220	2207	2216	2222	rVB6	9268	16795	0.48%	0.057%
109	13.268	2222	2225	2228	rBV3	3183	4222	0.12%	0.014%
110	13.354	2239	2241	2244	rVB2	4811	3540	0.10%	0.012%
111	13.391	2244	2248	2252	rBV2	4585	4577	0.13%	0.016%
112	13.519	2266	2272	2278	rBV6	10865	17914	0.51%	0.061%
113	13.637	2289	2294	2297	rBV5	3051	5219	0.15%	0.018%
114	13.712	2302	2308	2311	rBV4	3360	5686	0.16%	0.019%
115	13.744	2311	2314	2317	rVB3	4553	4535	0.13%	0.016%
116	13.781	2317	2321	2323	rBV2	5104	5889	0.17%	0.020%
117	13.829	2323	2330	2336	rVB4	10878	18556	0.53%	0.064%
118	13.968	2352	2356	2358	rBV3	6034	5374	0.15%	0.018%
119	14.134	2376	2387	2405	rBV	1954505	3229344	91.46%	11.053%
120	14.289	2411	2416	2421	rVV5	12687	18837	0.53%	0.064%
121	14.321	2421	2422	2425	rVB2	4789	4450	0.13%	0.015%
122	14.427	2440	2442	2447	rVB4	5494	3582	0.10%	0.012%
123	14.465	2447	2449	2452	rVB3	4601	4383	0.12%	0.015%
124	14.529	2455	2461	2463	rVV2	4681	5249	0.15%	0.018%
125	14.598	2468	2474	2478	rVB7	7323	14136	0.40%	0.048%
126	14.630	2478	2480	2481	rBV2	5416	3552	0.10%	0.012%
127	14.753	2500	2503	2505	rBV4	4011	3908	0.11%	0.013%
128	14.769	2505	2506	2511	rVB4	4088	3694	0.10%	0.013%
129	15.052	2555	2559	2566	rBV5	11497	18917	0.54%	0.065%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201241.d
Acq On : 18 Aug 2021 9:44 pm
Operator : kristis
Sample : jd29923-8
Misc : op34922,ef8807,30.7,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

130	15.106	2566	2569	2573	rVB2	6090	7037	0.20%	0.024%
131	15.138	2573	2575	2577	rBV3	5464	4066	0.12%	0.014%
132	15.229	2589	2592	2596	rVB4	3377	5568	0.16%	0.019%
133	15.266	2596	2599	2602	rBV4	3235	5169	0.15%	0.018%
134	15.368	2613	2618	2622	rVB6	2773	4871	0.14%	0.017%
135	15.416	2622	2627	2630	rBV5	5717	7697	0.22%	0.026%
136	15.517	2645	2646	2651	rBV5	4317	3985	0.11%	0.014%
137	15.549	2651	2652	2659	rVV6	4670	3697	0.10%	0.013%
138	15.624	2664	2666	2668	rVB2	6048	4833	0.14%	0.017%
139	15.683	2673	2677	2680	rBV3	4938	6478	0.18%	0.022%
140	15.784	2688	2696	2701	rBV8	6912	11359	0.32%	0.039%
141	15.832	2703	2705	2708	rVB3	3791	3386	0.10%	0.012%
142	15.865	2708	2711	2714	rBV4	5398	5560	0.16%	0.019%
143	15.929	2717	2723	2726	rBV6	4857	10886	0.31%	0.037%
144	16.051	2743	2746	2749	rBV4	6823	6590	0.19%	0.023%
145	16.110	2756	2757	2761	rVB4	4270	3874	0.11%	0.013%
146	16.148	2761	2764	2766	rBV4	5505	6438	0.18%	0.022%
147	16.254	2779	2784	2787	rVB5	6961	7486	0.21%	0.026%
148	16.335	2794	2799	2805	rVB6	8858	10858	0.31%	0.037%
149	16.495	2825	2829	2835	rBV8	8758	15563	0.44%	0.053%
150	16.548	2837	2839	2841	rVB3	4978	3575	0.10%	0.012%
151	16.618	2850	2852	2860	rVB8	5160	6490	0.18%	0.022%
152	16.725	2869	2872	2878	rBV8	5015	9188	0.26%	0.031%
153	16.773	2878	2881	2885	rVB5	5160	5372	0.15%	0.018%
154	16.810	2885	2888	2889	rBV3	5461	5399	0.15%	0.018%
155	16.906	2903	2906	2911	rBV6	5478	10116	0.29%	0.035%
156	17.018	2919	2927	2930	rBV8	6198	8148	0.23%	0.028%
157	17.050	2930	2933	2935	rBV4	4460	4691	0.13%	0.016%
158	17.115	2941	2945	2946	rVB3	7818	8761	0.25%	0.030%
159	17.179	2946	2957	2975	rBV	1700605	3100984	87.82%	10.614%
160	17.414	2999	3001	3003	rBV3	5357	3717	0.11%	0.013%
161	17.526	3020	3022	3026	rVB4	9252	9661	0.27%	0.033%
162	17.585	3031	3033	3036	rBV3	7994	8503	0.24%	0.029%
163	17.611	3037	3038	3044	rVV4	5110	8223	0.23%	0.028%
164	17.676	3047	3050	3053	rBV3	4974	5521	0.16%	0.019%
165	17.756	3063	3065	3067	rBV3	5570	5657	0.16%	0.019%
166	17.809	3072	3075	3076	rBV3	4732	4017	0.11%	0.014%
167	17.889	3089	3090	3093	rBV2	5467	4978	0.14%	0.017%
168	17.959	3100	3103	3108	rVB6	4403	5987	0.17%	0.020%
169	18.012	3110	3113	3116	rVV4	5702	5875	0.17%	0.020%
170	18.055	3120	3121	3123	rBV2	6853	3383	0.10%	0.012%
171	18.087	3125	3127	3128	rBV2	8503	4909	0.14%	0.017%
172	18.146	3136	3138	3140	rBV3	5552	4563	0.13%	0.016%
173	18.172	3140	3143	3145	rVB4	4570	5328	0.15%	0.018%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201241.d
Acq On : 18 Aug 2021 9:44 pm
Operator : kristis
Sample : jd29923-8
Misc : op34922,ef8807,30.7,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

174	18.215	3148	3151	3153	rVB4	7470	7808	0.22%	0.027%
175	18.231	3153	3154	3157	rBV3	9092	9260	0.26%	0.032%
176	18.343	3171	3175	3176	rBV3	8357	11104	0.31%	0.038%
177	18.407	3182	3187	3188	rBV3	5125	4809	0.14%	0.016%
178	18.429	3189	3191	3194	rVB2	6733	5519	0.16%	0.019%
179	18.498	3200	3204	3207	rVB5	10051	10371	0.29%	0.035%
180	18.525	3207	3209	3211	rBV3	4817	4751	0.13%	0.016%
181	18.546	3212	3213	3216	rVB3	3917	3732	0.11%	0.013%
182	18.664	3233	3235	3239	rBV4	6782	9327	0.26%	0.032%
183	18.717	3243	3245	3247	rBV3	6855	6671	0.19%	0.023%
184	18.872	3271	3274	3277	rBV5	10126	13991	0.40%	0.048%
185	18.894	3277	3278	3280	rVV3	11883	5222	0.15%	0.018%
186	19.000	3295	3298	3299	rBV3	6974	4969	0.14%	0.017%
187	19.086	3312	3314	3316	rBV3	6429	3826	0.11%	0.013%
188	19.102	3316	3317	3320	rVV3	6787	5042	0.14%	0.017%
189	19.129	3320	3322	3324	rVB3	8454	6939	0.20%	0.024%
190	19.230	3338	3341	3345	rBV5	7510	8905	0.25%	0.030%
191	19.262	3345	3347	3349	rVB3	7811	5954	0.17%	0.020%
192	19.417	3374	3376	3378	rBV3	5807	5046	0.14%	0.017%
193	19.508	3392	3393	3398	rBV5	6761	9215	0.26%	0.032%
194	19.567	3401	3404	3406	rBV4	7896	9681	0.27%	0.033%
195	19.620	3412	3414	3418	rBV5	8064	11712	0.33%	0.040%
196	19.695	3426	3428	3432	rBV4	8894	8647	0.24%	0.030%
197	19.738	3432	3436	3439	rBV4	11001	18586	0.53%	0.064%
198	19.812	3447	3450	3452	rBV4	10566	9902	0.28%	0.034%
199	19.871	3459	3461	3467	rVB6	9051	10359	0.29%	0.035%
200	19.973	3478	3480	3481	rBV2	12189	7121	0.20%	0.024%

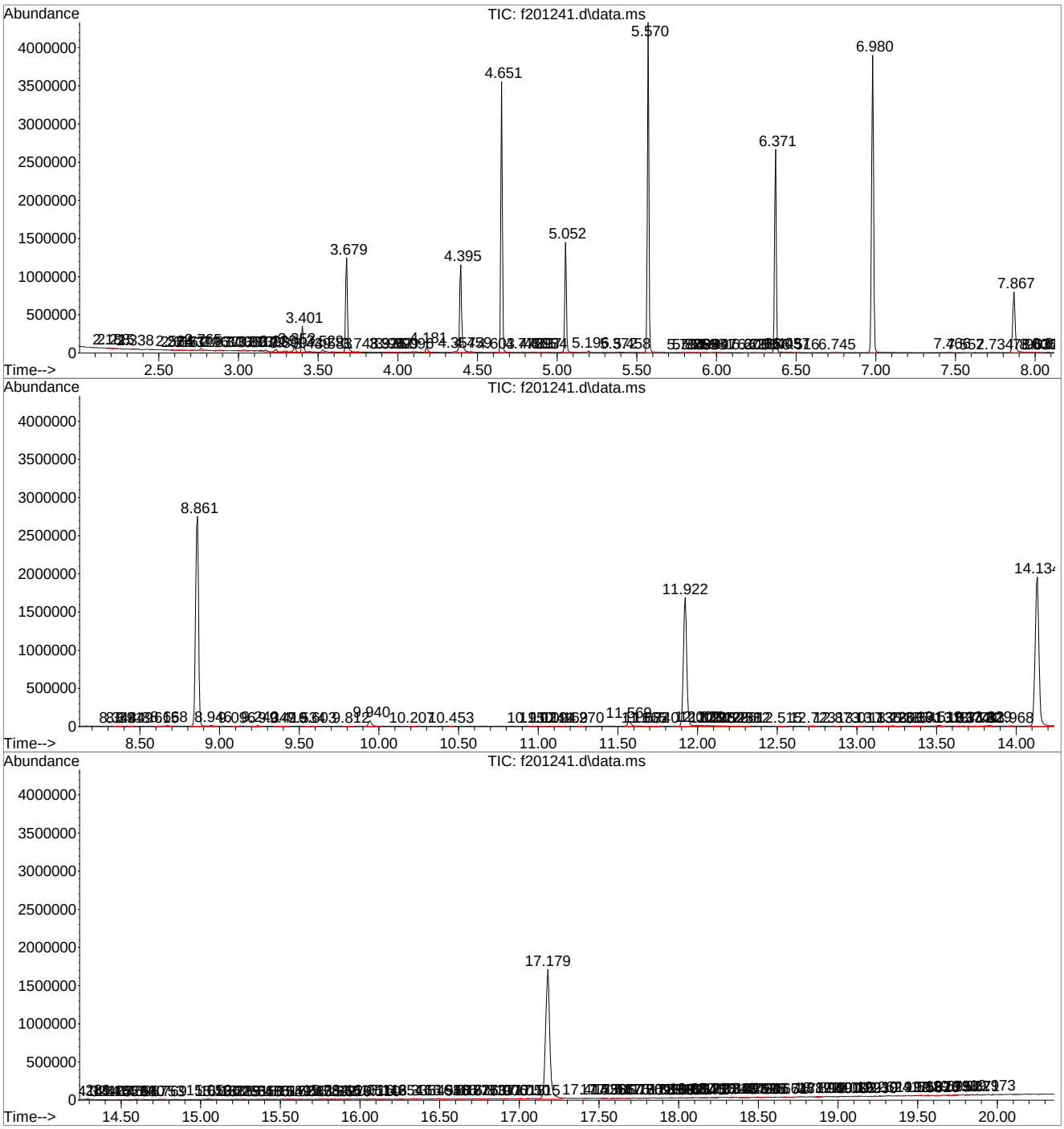
Sum of corrected areas: 29217176

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201241.d
Acq On : 18 Aug 2021 9:44 pm
Operator : kristis
Sample : jd29923-8
Misc : op34922,ef8807,30.7,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201241.d
Acq On : 18 Aug 2021 9:44 pm
Operator : kristis
Sample : jd29923-8
Misc : op34922,ef8807,30.7,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS

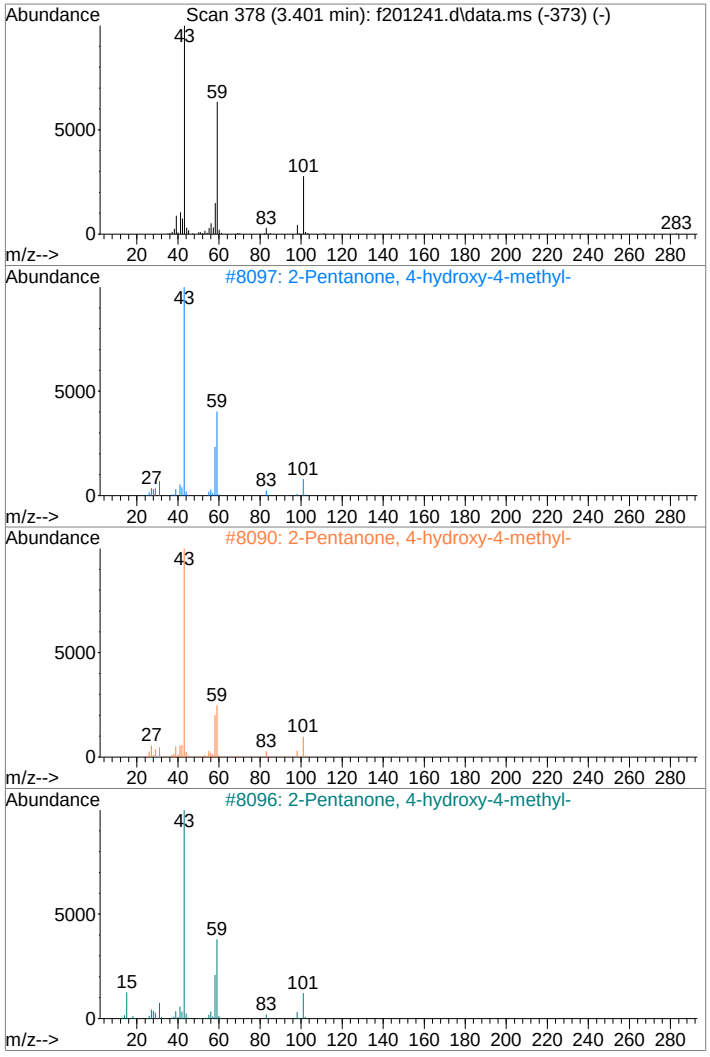
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P

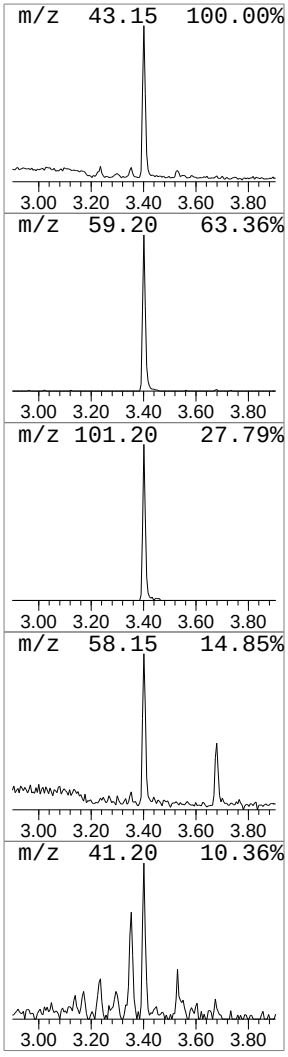
****

Peak Number 1 System artifact/aldol-conde... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.401	4.32 ppm	263601	1,4-Dichlorobenzene-d4b	4.651

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
4	Dimethadione	129	C5H7NO3	000695-53-4	40
5	2-Nonanone, 9-hydroxy-	158	C9H18O2	025368-56-3	28





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201241.d
Acq On : 18 Aug 2021 9:44 pm
Operator : kristis
Sample : jd29923-8
Misc : op34922,ef8807,30.7,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
System artifact...	3.401	4.3	ppm	263601	2	4.651	2438080	40.0

9.1.16

9

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201231.d
Acq On : 18 Aug 2021 4:25 pm
Operator : kristis
Sample : op34922-mb1 Inst : GCMSF
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 01:00:05 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration

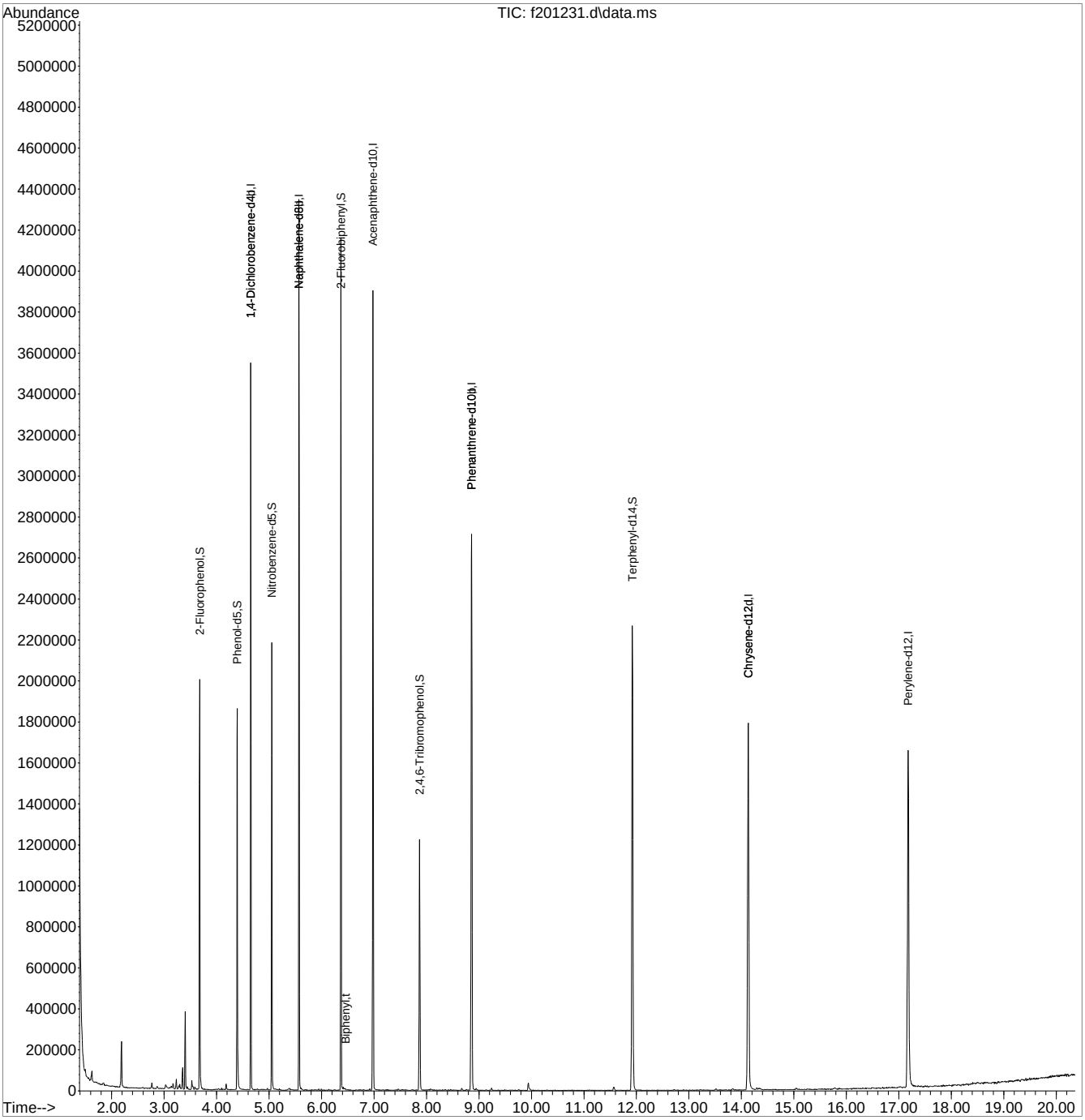
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.651	152	355332	40.00	ppm	0.00
24) Naphthalene-d8	5.570	136	1371030	40.00	ppm	0.00
46) Acenaphthene-d10	6.980	164	752562	40.00	ppm	0.00
69) Phenanthrene-d10	8.861	188	1332191	40.00	ppm	0.00
83) Chrysene-d12	14.134	240	1072768	40.00	ppm	-0.01
92) Perylene-d12	17.179	264	1038063	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4b	4.651	152	355332	40.00	ppm	0.00
104) Phenanthrene-d10b	8.861	188	1332191	40.00	ppm	0.00
106) Naphthalene-d8b	5.570	136	1371030	40.00	ppm	0.00
108) Chrysene-d12d	14.134	240	1072768	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.679	112	402844	37.03	ppm	0.00
Spiked Amount 50.000			Recovery = 74.06%			
8) Phenol-d5	4.395	99	510142	34.60	ppm	0.00
Spiked Amount 50.000			Recovery = 69.20%			
25) Nitrobenzene-d5	5.052	82	556917	42.05	ppm	0.00
Spiked Amount 50.000			Recovery = 84.10%			
51) 2-Fluorobiphenyl	6.371	172	991796	39.62	ppm	0.00
Spiked Amount 50.000			Recovery = 79.24%			
73) 2,4,6-Tribromophenol	7.867	330	139966	39.92	ppm	0.00
Spiked Amount 50.000			Recovery = 79.84%			
86) Terphenyl-d14	11.922	244	1214291	47.46	ppm	0.00
Spiked Amount 50.000			Recovery = 94.92%			
Target Compounds						Qvalue
53) Biphenyl	6.457	154	2281	0.08	ppm	95

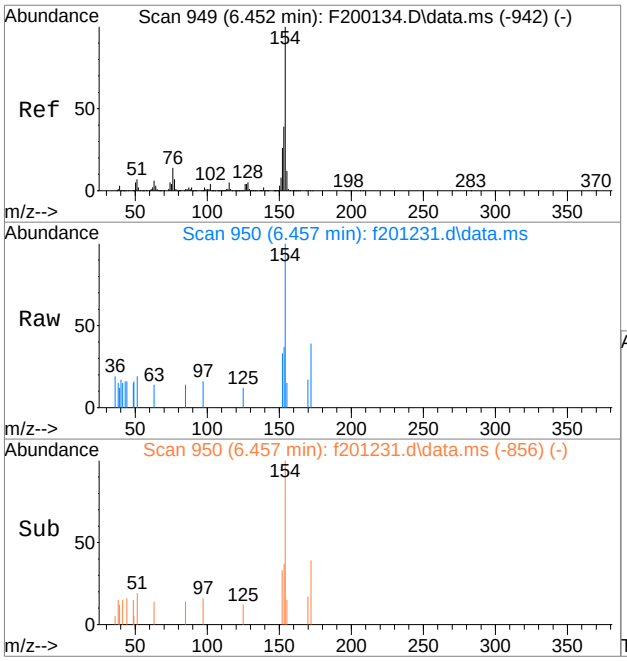
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201231.d
Acq On : 18 Aug 2021 4:25 pm
Operator : kristis
Sample : op34922-mb1 Inst : GCMSF
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 01:00:05 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration

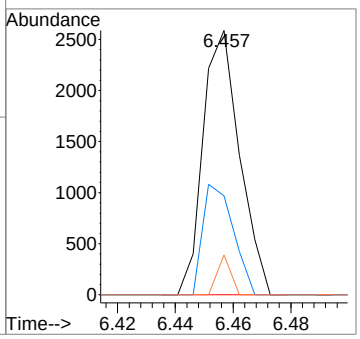




#53
Biphenyl
Concen: 0.08 ppm
RT: 6.457 min Scan# 950
Delta R.T. 0.000 min
Lab File: f201231.d
Acq: 18 Aug 2021 4:25 pm

Tgt Ion:154 Resp: 2281

Ion	Ratio	Lower	Upper
154	100		
153	37.4	10.3	70.3
155	15.1	0.0	42.6



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201231.d
Acq On : 18 Aug 2021 4:25 pm
Operator : kristis
Sample : op34922-mb1
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: f201231.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.103	130	135	137	rVB5	5098	6594	0.19%	0.020%
2	2.135	137	141	142	rVV3	3222	3936	0.12%	0.012%
3	2.188	142	151	160	rVB	225333	246482	7.22%	0.745%
4	2.285	167	169	175	rVB6	6030	5144	0.15%	0.016%
5	2.429	194	196	200	rBV5	3553	4035	0.12%	0.012%
6	2.472	200	204	205	rVB3	3441	3382	0.10%	0.010%
7	2.594	223	227	233	rVB7	6634	10981	0.32%	0.033%
8	2.637	233	235	239	rBV5	4178	5457	0.16%	0.016%
9	2.765	254	259	263	rBV	28219	28292	0.83%	0.085%
10	2.867	273	278	285	rVV6	12467	20796	0.61%	0.063%
11	2.920	285	288	293	rVV5	5169	9153	0.27%	0.028%
12	2.958	293	295	301	rVV5	4965	8697	0.25%	0.026%
13	3.032	303	309	319	rVV7	21542	50251	1.47%	0.152%
14	3.102	319	322	324	rVV4	8861	9384	0.27%	0.028%
15	3.139	324	329	331	rVV6	15669	22850	0.67%	0.069%
16	3.171	331	335	342	rVV3	29033	34093	1.00%	0.103%
17	3.235	342	347	351	rVV	49898	51752	1.52%	0.156%
18	3.300	351	359	362	rVV	25855	40138	1.18%	0.121%
19	3.353	363	369	373	rVV	107173	102040	2.99%	0.308%
20	3.401	373	378	384	rVV	380695	297757	8.72%	0.900%
21	3.444	384	386	395	rVB3	14928	16874	0.49%	0.051%
22	3.529	397	402	410	rBV2	46658	58240	1.71%	0.176%
23	3.583	410	412	418	rBV4	13032	16220	0.48%	0.049%
24	3.679	421	430	444	rVV	2002721	1610183	47.18%	4.865%
25	3.770	444	447	449	rVB2	4970	4819	0.14%	0.015%
26	3.957	476	482	484	rBV3	3915	4702	0.14%	0.014%
27	3.989	484	488	492	rVV3	4190	4923	0.14%	0.015%
28	4.031	494	496	501	rVB3	6758	7546	0.22%	0.023%
29	4.096	504	508	510	rVB2	9681	8125	0.24%	0.025%
30	4.122	510	513	518	rBV4	4535	6973	0.20%	0.021%
31	4.181	518	524	529	rBV2	29445	31437	0.92%	0.095%
32	4.277	540	542	546	rBV3	4685	4949	0.15%	0.015%
33	4.395	556	564	580	rBV	1860093	1623803	47.58%	4.906%
34	4.587	597	600	607	rBV6	4074	6074	0.18%	0.018%
35	4.651	607	612	623	rBV	3548592	2360853	69.17%	7.133%
36	4.774	632	635	643	rVV	4977	7877	0.23%	0.024%
37	4.838	645	647	649	rBV2	3886	3747	0.11%	0.011%
38	4.865	649	652	656	rVB4	4407	5240	0.15%	0.016%
39	4.897	656	658	664	rBV6	4769	6344	0.19%	0.019%
40	4.972	665	672	676	rVB4	7898	8187	0.24%	0.025%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201231.d
Acq On : 18 Aug 2021 4:25 pm
Operator : kristis
Sample : op34922-mb1
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

41	5.052	683	687	696	rBV	2183678	1617683	47.40%	4.888%
42	5.116	696	699	703	rVV5	7092	11273	0.33%	0.034%
43	5.148	703	705	711	rVV4	4221	6572	0.19%	0.020%
44	5.196	711	714	717	rVB2	7943	5308	0.16%	0.016%
45	5.388	739	750	752	rBV7	9921	21930	0.64%	0.066%
46	5.570	779	784	802	rVB	4348246	3002118	87.96%	9.071%
47	5.688	802	806	808	rBV	3385	4528	0.13%	0.014%
48	5.816	829	830	836	rBV3	4819	5874	0.17%	0.018%
49	5.875	839	841	847	rBV3	3832	5362	0.16%	0.016%
50	5.949	852	855	857	rVV2	7548	6611	0.19%	0.020%
51	5.997	860	864	867	rVB	6958	7090	0.21%	0.021%
52	6.104	878	884	886	rVB2	2388	3830	0.11%	0.012%
53	6.136	886	890	894	rBV3	6336	5898	0.17%	0.018%
54	6.371	927	934	940	rBV	4158655	3051397	89.40%	9.220%
55	6.414	940	942	945	rVV4	15599	12951	0.38%	0.039%
56	6.441	945	947	954	rVV4	9690	14452	0.42%	0.044%
57	6.494	954	957	961	rVB	3385	3571	0.10%	0.011%
58	6.660	983	988	996	rBV4	4734	14329	0.42%	0.043%
59	6.804	1013	1015	1021	rVB2	4644	5154	0.15%	0.016%
60	6.884	1025	1030	1034	rBV2	2545	4337	0.13%	0.013%
61	6.922	1034	1037	1040	rVB2	8118	7627	0.22%	0.023%
62	6.980	1040	1048	1061	rBV	3903582	3318404	97.23%	10.027%
63	7.055	1061	1062	1070	rVB5	5052	8570	0.25%	0.026%
64	7.103	1070	1071	1075	rBV2	5102	4054	0.12%	0.012%
65	7.183	1081	1086	1092	rVB4	2780	4633	0.14%	0.014%
66	7.226	1092	1094	1097	rVB	4698	4087	0.12%	0.012%
67	7.264	1097	1101	1104	rBV2	5114	6660	0.20%	0.020%
68	7.285	1104	1105	1110	rVB2	3077	3346	0.10%	0.010%
69	7.461	1134	1138	1142	rVB4	6899	8399	0.25%	0.025%
70	7.525	1146	1150	1152	rBV2	4420	5090	0.15%	0.015%
71	7.718	1180	1186	1187	rBV2	3514	4149	0.12%	0.013%
72	7.734	1187	1189	1194	rVB4	4079	5547	0.16%	0.017%
73	7.798	1198	1201	1207	rBV5	3277	5710	0.17%	0.017%
74	7.867	1207	1214	1225	rVV	1223970	1301423	38.13%	3.932%
75	8.076	1250	1253	1261	rBV2	6478	12648	0.37%	0.038%
76	8.145	1263	1266	1270	rVB3	3637	3862	0.11%	0.012%
77	8.182	1270	1273	1277	rBV2	3519	4055	0.12%	0.012%
78	8.257	1285	1287	1292	rVB	3551	4325	0.13%	0.013%
79	8.305	1292	1296	1302	rVV3	4620	5439	0.16%	0.016%
80	8.364	1302	1307	1312	rVV	4620	7283	0.21%	0.022%
81	8.417	1315	1317	1320	rVB2	4244	3505	0.10%	0.011%
82	8.455	1320	1324	1331	rBV4	5726	9260	0.27%	0.028%
83	8.514	1331	1335	1338	rVV3	3893	5006	0.15%	0.015%
84	8.556	1338	1343	1348	rVB2	2977	5721	0.17%	0.017%
85	8.669	1359	1364	1372	rVB3	10663	14406	0.42%	0.044%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201231.d
Acq On : 18 Aug 2021 4:25 pm
Operator : kristis
Sample : op34922-mb1
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

86	8.765	1378	1382	1385	rBV2	5288	7212	0.21%	0.022%
87	8.861	1392	1400	1411	rBV	2714443	3413064	100.00%	10.313%
88	8.946	1411	1416	1423	rVB3	11050	15481	0.45%	0.047%
89	9.128	1447	1450	1455	rBV2	3346	6094	0.18%	0.018%
90	9.240	1466	1471	1475	rVB2	11869	13127	0.38%	0.040%
91	9.438	1505	1508	1511	rVB2	2953	3374	0.10%	0.010%
92	9.513	1520	1522	1527	rVB2	2756	3507	0.10%	0.011%
93	9.587	1531	1536	1538	rBV3	3403	5490	0.16%	0.017%
94	9.758	1563	1568	1571	rBV	7062	9073	0.27%	0.027%
95	9.790	1571	1574	1578	rVB	3701	4396	0.13%	0.013%
96	9.940	1595	1602	1613	rBV4	37742	63002	1.85%	0.190%
97	10.079	1623	1628	1632	rBV3	2319	4891	0.14%	0.015%
98	10.298	1664	1669	1673	rBV4	4066	5828	0.17%	0.018%
99	10.399	1685	1688	1693	rBV	2920	5850	0.17%	0.018%
100	10.453	1693	1698	1704	rVV2	4570	7749	0.23%	0.023%
101	10.490	1704	1705	1711	rVB	3343	4609	0.14%	0.014%
102	10.618	1724	1729	1732	rBV4	2602	4187	0.12%	0.013%
103	11.382	1870	1872	1880	rVB3	2314	4490	0.13%	0.014%
104	11.569	1895	1907	1914	rBV6	18153	35595	1.04%	0.108%
105	11.703	1928	1932	1937	rVB4	2650	4659	0.14%	0.014%
106	11.922	1960	1973	1992	rBV	2267499	3370149	98.74%	10.183%
107	12.408	2059	2064	2068	rBV2	2701	3525	0.10%	0.011%
108	12.526	2082	2086	2091	rVB2	2515	3769	0.11%	0.011%
109	12.584	2091	2097	2100	rBV2	2121	4218	0.12%	0.013%
110	12.723	2117	2123	2127	rBV3	4948	6075	0.18%	0.018%
111	12.894	2150	2155	2159	rBV	4219	4416	0.13%	0.013%
112	12.953	2163	2166	2170	rVB3	3111	3689	0.11%	0.011%
113	13.071	2185	2188	2192	rVB	2837	3539	0.10%	0.011%
114	13.161	2203	2205	2209	rBV4	3155	3765	0.11%	0.011%
115	13.225	2211	2217	2223	rVV5	2997	6412	0.19%	0.019%
116	13.514	2264	2271	2277	rBV7	8160	13022	0.38%	0.039%
117	13.760	2312	2317	2322	rVB2	4540	8774	0.26%	0.027%
118	13.840	2326	2332	2337	rBV5	9532	18107	0.53%	0.055%
119	14.134	2377	2387	2401	rBV2	1791213	3041413	89.11%	9.190%
120	14.251	2406	2409	2411	rVV	4021	3962	0.12%	0.012%
121	14.294	2411	2417	2420	rVV4	11436	14301	0.42%	0.043%
122	14.326	2420	2423	2424	rVV3	7853	7532	0.22%	0.023%
123	14.337	2424	2425	2436	rVB3	8077	18452	0.54%	0.056%
124	14.444	2442	2445	2446	rBV2	3577	3340	0.10%	0.010%
125	14.486	2452	2453	2458	rVB3	3875	3633	0.11%	0.011%
126	14.598	2471	2474	2476	rBV3	4901	4207	0.12%	0.013%
127	14.839	2516	2519	2522	rBV2	2972	3595	0.11%	0.011%
128	15.042	2553	2557	2558	rBV2	8672	7047	0.21%	0.021%
129	15.197	2583	2586	2592	rVB3	2401	4432	0.13%	0.013%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201231.d
Acq On : 18 Aug 2021 4:25 pm
Operator : kristis
Sample : op34922-mb1
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

130	15.250	2594	2596	2598	rBV3	3999	4167	0.12%	0.013%
131	15.304	2605	2606	2611	rVB3	4876	4747	0.14%	0.014%
132	15.341	2611	2613	2619	rBV2	3527	5542	0.16%	0.017%
133	15.421	2624	2628	2631	rVB3	3936	5574	0.16%	0.017%
134	15.475	2631	2638	2643	rBV4	4588	11724	0.34%	0.035%
135	15.581	2655	2658	2660	rVB3	5154	3851	0.11%	0.012%
136	15.646	2664	2670	2672	rVV5	4025	5916	0.17%	0.018%
137	15.662	2672	2673	2680	rVB4	4205	6831	0.20%	0.021%
138	15.710	2680	2682	2684	rBV	4936	4724	0.14%	0.014%
139	15.784	2691	2696	2702	rVB7	7252	12557	0.37%	0.038%
140	15.977	2730	2732	2735	rVB4	3787	3605	0.11%	0.011%
141	16.009	2735	2738	2743	rBV5	4913	4917	0.14%	0.015%
142	16.094	2749	2754	2755	rVB2	5338	7263	0.21%	0.022%
143	16.110	2755	2757	2758	rBV2	5548	3968	0.12%	0.012%
144	16.142	2759	2763	2764	rVV3	6050	5785	0.17%	0.017%
145	16.185	2768	2771	2773	rVV3	5622	4514	0.13%	0.014%
146	16.233	2776	2780	2782	rVB5	3509	4451	0.13%	0.013%
147	16.271	2782	2787	2788	rVB3	4456	5211	0.15%	0.016%
148	16.308	2789	2794	2797	rVB5	4309	4548	0.13%	0.014%
149	16.372	2803	2806	2807	rVB3	7374	4885	0.14%	0.015%
150	16.383	2807	2808	2816	rBV6	4849	11452	0.34%	0.035%
151	16.479	2823	2826	2829	rBV4	5065	6203	0.18%	0.019%
152	16.693	2860	2866	2868	rBV4	5905	4681	0.14%	0.014%
153	16.815	2886	2889	2893	rBV4	5380	6546	0.19%	0.020%
154	16.858	2893	2897	2899	rVV3	4286	5023	0.15%	0.015%
155	17.008	2917	2925	2926	rBV6	7860	13921	0.41%	0.042%
156	17.034	2927	2930	2936	rVB4	6847	12388	0.36%	0.037%
157	17.088	2936	2940	2946	rBV7	5467	10708	0.31%	0.032%
158	17.179	2946	2957	2975	rBV2	1647398	2985252	87.47%	9.020%
159	17.323	2982	2984	2988	rVB5	4090	4343	0.13%	0.013%
160	17.366	2991	2992	2998	rVB5	6501	8242	0.24%	0.025%
161	17.424	3002	3003	3007	rVB4	6283	5363	0.16%	0.016%
162	17.494	3012	3016	3018	rBV4	7645	7967	0.23%	0.024%
163	17.510	3018	3019	3023	rVB3	5378	3879	0.11%	0.012%
164	17.542	3023	3025	3030	rVB2	6915	6834	0.20%	0.021%
165	17.590	3032	3034	3040	rBV5	4315	7555	0.22%	0.023%
166	17.676	3048	3050	3054	rBV4	4334	5179	0.15%	0.016%
167	17.847	3080	3082	3084	rBV2	7903	5423	0.16%	0.016%
168	18.017	3112	3114	3115	rBV2	6914	4208	0.12%	0.013%
169	18.028	3115	3116	3118	rBV2	5579	4546	0.13%	0.014%
170	18.135	3131	3136	3140	rBV6	6196	11275	0.33%	0.034%
171	18.215	3145	3151	3154	rBV6	9476	17818	0.52%	0.054%
172	18.236	3154	3155	3159	rBV4	5670	5300	0.16%	0.016%
173	18.317	3168	3170	3172	rVB2	7494	6351	0.19%	0.019%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201231.d
Acq On : 18 Aug 2021 4:25 pm
Operator : kristis
Sample : op34922-mb1
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\MF8747.M
Title : Semi Volatile Extractables by GC/MS

174	18.354	3173	3177	3179	rVV5	5906	6829	0.20%	0.021%
175	18.375	3179	3181	3185	rVV5	8925	10472	0.31%	0.032%
176	18.407	3186	3187	3189	rVV2	12174	7155	0.21%	0.022%
177	18.434	3189	3192	3197	rVV6	9324	14653	0.43%	0.044%
178	18.477	3197	3200	3202	rVV3	7723	9207	0.27%	0.028%
179	18.493	3202	3203	3211	rVV7	10914	20465	0.60%	0.062%
180	18.589	3215	3221	3224	rVB5	8073	14363	0.42%	0.043%
181	18.621	3224	3227	3231	rBV5	10626	15156	0.44%	0.046%
182	18.781	3253	3257	3260	rBV4	7507	11881	0.35%	0.036%
183	18.846	3268	3269	3272	rVB3	7667	6685	0.20%	0.020%
184	18.888	3276	3277	3278	rVV	9481	4017	0.12%	0.012%
185	18.904	3279	3280	3283	rVB3	8135	5149	0.15%	0.016%
186	18.958	3284	3290	3292	rBV6	6539	8686	0.25%	0.026%
187	19.097	3314	3316	3318	rBV	10426	7251	0.21%	0.022%
188	19.273	3348	3349	3356	rVB6	11588	16071	0.47%	0.049%
189	19.342	3356	3362	3367	rBV8	12846	32651	0.96%	0.099%
190	19.417	3373	3376	3379	rVB4	12666	12813	0.38%	0.039%
191	19.449	3380	3382	3386	rVV5	7127	7619	0.22%	0.023%
192	19.487	3387	3389	3392	rVB4	12638	11838	0.35%	0.036%
193	19.519	3393	3395	3398	rVV4	8117	7168	0.21%	0.022%
194	19.620	3411	3414	3415	rBV3	9433	8035	0.24%	0.024%
195	19.861	3456	3459	3460	rVB3	8156	4931	0.14%	0.015%
196	19.887	3461	3464	3467	rVB5	9518	9472	0.28%	0.029%
197	19.919	3468	3470	3474	rBV5	11828	12207	0.36%	0.037%
198	20.069	3497	3498	3501	rBV3	7724	5518	0.16%	0.017%
199	20.170	3515	3517	3522	rVB5	13556	15985	0.47%	0.048%
200	20.202	3522	3523	3529	rBV6	12990	19664	0.58%	0.059%

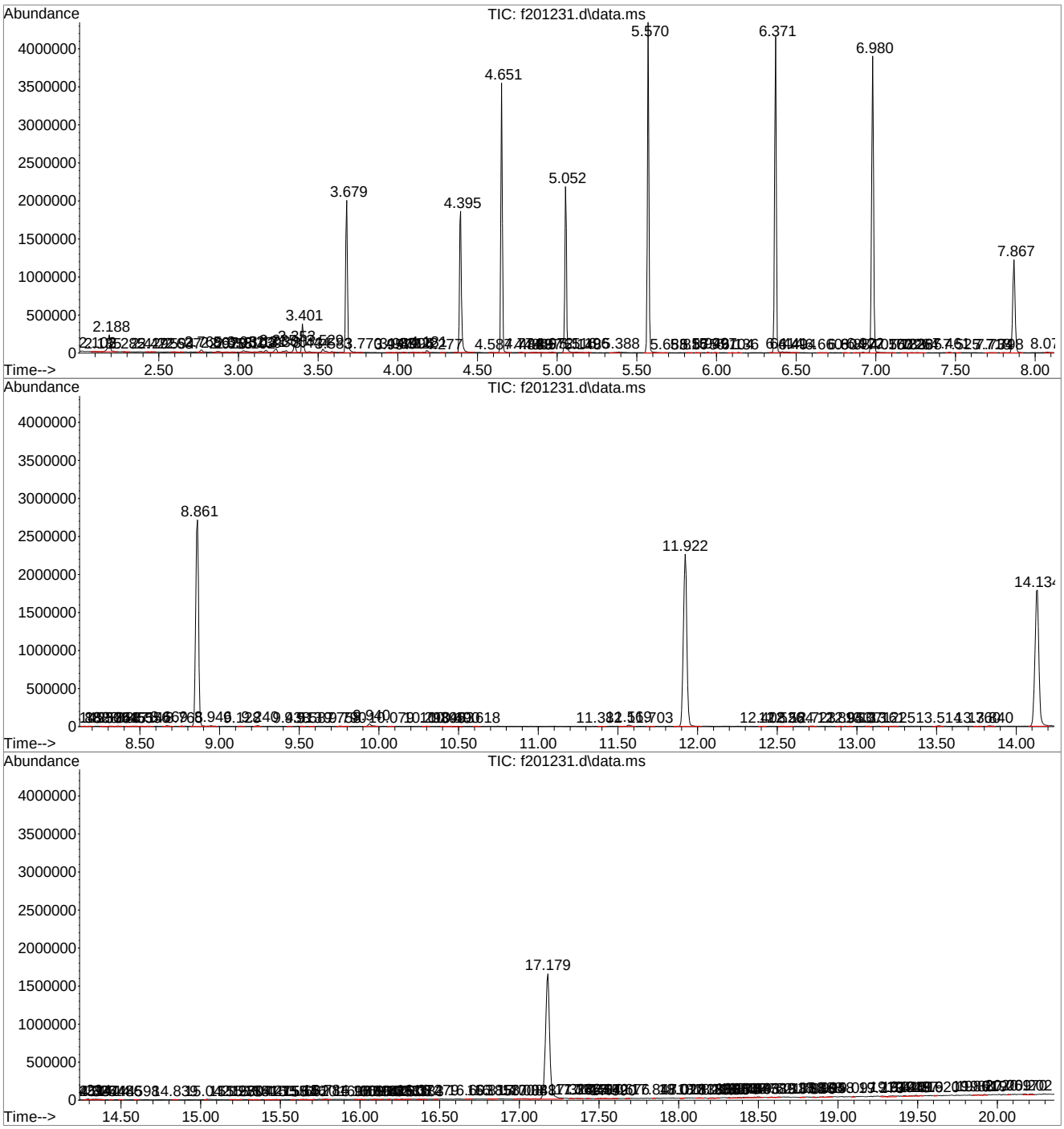
Sum of corrected areas: 33096037

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201231.d
Acq On : 18 Aug 2021 4:25 pm
Operator : kristis
Sample : op34922-mb1
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201231.d
Acq On : 18 Aug 2021 4:25 pm
Operator : kristis
Sample : op34922-mb1
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS

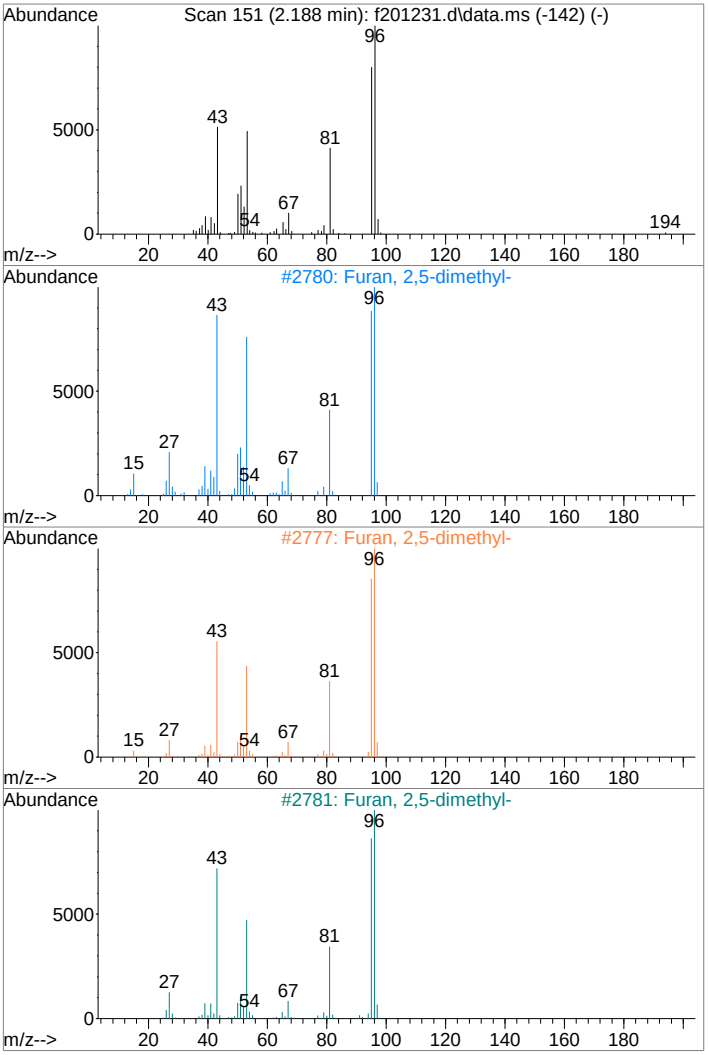
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P

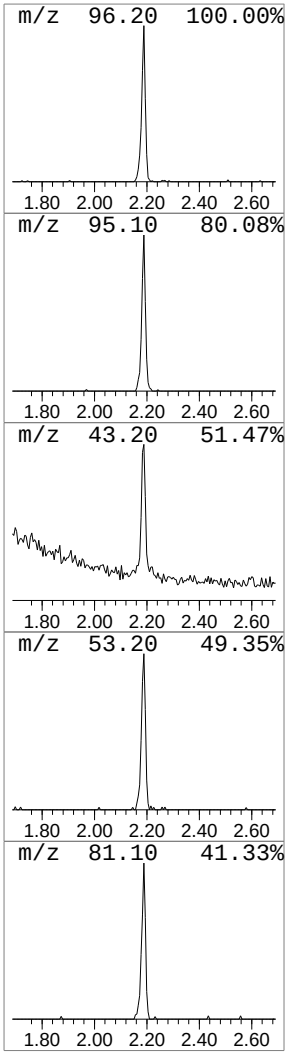
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Peak Number 1 System artifact Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.188	4.18 ppm	246482	1,4-Dichlorobenzene-d4b	4.651

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	90
2	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	87
3	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	86
4	Furan, 2,4-dimethyl-	96	C6H8O	003710-43-8	80
5	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	72





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201231.d
Acq On : 18 Aug 2021 4:25 pm
Operator : kristis
Sample : op34922-mb1
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS

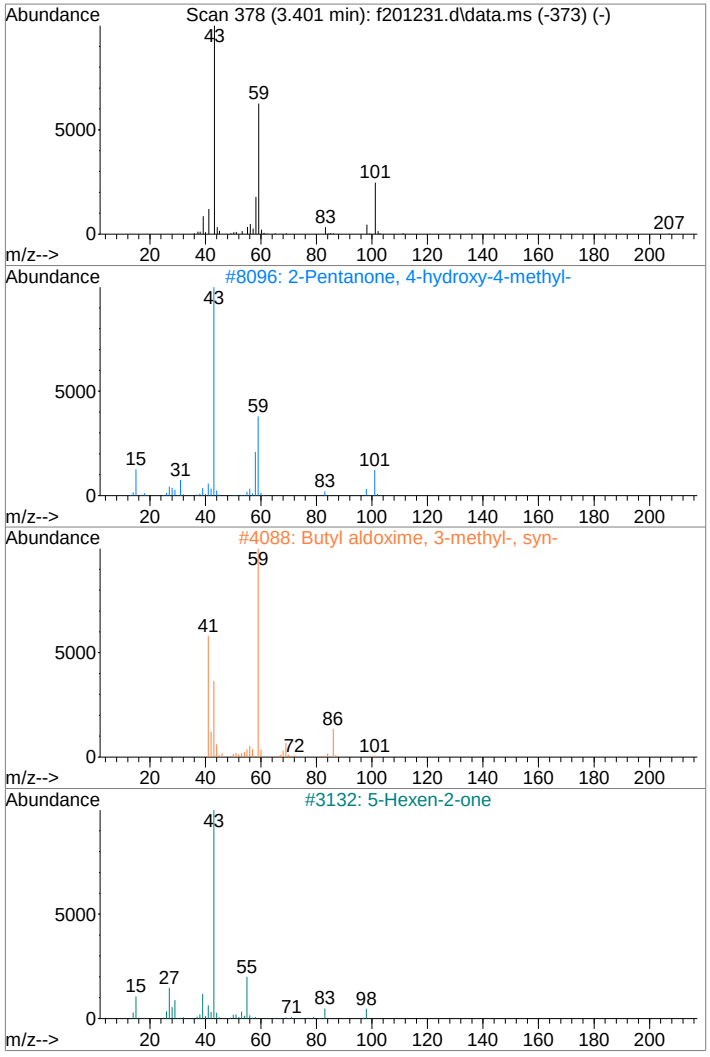
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P

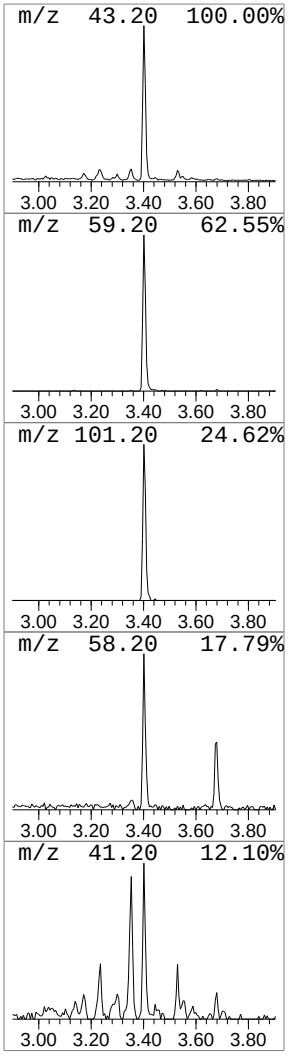
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Peak Number 2 System artifact/aldol-conde... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.401	5.04 ppm	297757	1,4-Dichlorobenzene-d4b	4.651

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	Butyl aldoxime, 3-methyl-, syn-	101	C5H11NO	005780-40-5	25
3	5-Hexen-2-one	98	C6H10O	000109-49-9	9
4	Butane	58	C4H10	000106-97-8	9
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201231.d
Acq On : 18 Aug 2021 4:25 pm
Operator : kristis
Sample : op34922-mb1
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
System artifact	2.188	4.2	ppm	246482	2	4.651	2360850	40.0
System artifact...	3.401	5.0	ppm	297757	2	4.651	2360850	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201232a.d
Acq On : 18 Aug 2021 4:55 pm
Operator : kristis
Sample : op34922-bs1 Inst : GCMSF
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 00:46:53 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.651	152	358719	40.00	ppm	0.00
24) Naphthalene-d8	5.575	136	1338213	40.00	ppm	0.00
46) Acenaphthene-d10	6.980	164	755797	40.00	ppm	0.00
69) Phenanthrene-d10	8.861	188	1358245	40.00	ppm	0.00
83) Chrysene-d12	14.139	240	1193334	40.00	ppm	0.00
92) Perylene-d12	17.184	264	1117820	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4b	4.651	152	358719	40.00	ppm	0.00
104) Phenanthrene-d10b	8.861	188	1358245	40.00	ppm	0.00
106) Naphthalene-d8b	5.575	136	1338213	40.00	ppm	0.00
108) Chrysene-d12d	14.139	240	1193334	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.679	112	370382	33.73	ppm	0.00
Spiked Amount 50.000			Recovery = 67.46%			
8) Phenol-d5	4.395	99	474973	31.91	ppm	0.00
Spiked Amount 50.000			Recovery = 63.82%			
25) Nitrobenzene-d5	5.057	82	498719	38.58	ppm	0.00
Spiked Amount 50.000			Recovery = 77.16%			
51) 2-Fluorobiphenyl	6.371	172	902790	35.91	ppm	0.00
Spiked Amount 50.000			Recovery = 71.82%			
73) 2,4,6-Tribromophenol	7.873	330	142764	39.94	ppm	0.00
Spiked Amount 50.000			Recovery = 79.88%			
86) Terphenyl-d14	11.922	244	1145858	40.26	ppm	0.00
Spiked Amount 50.000			Recovery = 80.52%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.215	88	101612	20.67	ppm	92
3) Pyridine	2.541	79	326302	25.97	ppm	98
4) N-Nitrosodimethylamine	2.498	42	217520	33.41	ppm	91
6) Indene	4.838	116	679139	33.58	ppm	99
7) Cumene	4.058	105	991568	33.80	ppm	99
9) Phenol	4.405	94	522668	34.69	ppm	94
10) Aniline	4.411	93	482422	25.65	ppm	93
11) bis(2-Chloroethyl)ether	4.459	93	389934	35.27	ppm	99
12) 2-Chlorophenol	4.502	128	388424	32.67	ppm	95
13) Decane	4.528	43	326585	31.94	ppm	95
14) 1,3-Dichlorobenzene	4.608	146	449035	32.72	ppm	98
15) 1,4-Dichlorobenzene	4.667	146	454801	32.56	ppm	95
16) Benzyl alcohol	4.758	108	237794	30.66	ppm	96
17) 1,2-Dichlorobenzene	4.774	146	435990	33.62	ppm	99
18) Acetophenone	4.945	105	585638	33.47	ppm	81
19) 2-Methylphenol	4.844	108	365193	33.75	ppm	99
20) 2,2'-oxybis(1-Chloropr...	4.849	121	118477	36.80	ppm #	80
21) 3&4-Methylphenol	4.956	108	759855	63.49	ppm	100
22) n-Nitroso-di-n-propyla...	4.945	70	324686	37.17	ppm	97
23) Hexachloroethane	5.020	201	174260	34.78	ppm	96
26) Nitrobenzene	5.068	77	499161	37.18	ppm	91
27) Quinoline	5.827	129	698133	33.16	ppm	98
28) Isophorone	5.244	82	867420	37.61	ppm	98
29) 2-Nitrophenol	5.298	139	214406	36.08	ppm	98
30) 2,4-Dimethylphenol	5.330	107	433064	34.11	ppm	98
31) Benzoic acid	5.404	105	252249	28.99	ppm	99
32) bis(2-Chloroethoxy)met...	5.394	93	458170	35.07	ppm	98
33) 2,4-Dichlorophenol	5.479	162	331270	34.86	ppm	99
34) 2,6-Dichlorophenol	5.634	162	320350	33.76	ppm	97
35) 1,3,5-Trichlorobenzene	5.303	180	402577	35.34	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201232a.d
Acq On : 18 Aug 2021 4:55 pm
Operator : kristis
Sample : op34922-bs1 Inst : GCMSF
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 00:46:53 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 1,2,4-Trichlorobenzene	5.533	180	386490	35.18	ppm	98
37) 1,2,3-Trichlorobenzene	5.688	180	362547	35.74	ppm	98
38) Naphthalene	5.591	128	1147704	34.03	ppm	99
39) 4-Chloroaniline	5.629	127	363119	26.30	ppm	99
40) 2,3-Dichloroaniline	6.307	161	375823	31.54	ppm	99
41) Hydroquinone	5.869	110	259314	25.94	ppm	98
42) Hexachlorobutadiene	5.672	225	254001	37.10	ppm	98
43) 4-Chloro-3-methylphenol	5.976	107	359305	35.31	ppm	95
44) 2-Methylnaphthalene	6.088	141	675476	34.67	ppm	98
45) 1-Methylnaphthalene	6.163	142	719765	34.41	ppm	96
47) Hexachlorocyclopentadiene	6.206	237	427880	64.57	ppm	99
48) 1,2,4,5-tetrachloroben...	6.216	216	399052	34.77	ppm	99
49) 2,4,6-Trichlorophenol	6.307	196	259542	34.33	ppm	99
50) 2,4,5-Trichlorophenol	6.345	196	274899	35.98	ppm	95
52) 2-Chloronaphthalene	6.478	162	740782	34.55	ppm	98
53) Biphenyl	6.457	154	940953	33.84	ppm	99
54) 2-Nitroaniline	6.558	65	255655	37.90	ppm	93
55) Dimethylphthalate	6.719	163	855733	35.35	ppm	99
56) Acenaphthylene	6.847	152	842324	32.72	ppm	99
57) 2,6-Dinitrotoluene	6.777	165	189757	39.64	ppm	97
58) 3-Nitroaniline	6.938	138	169268	31.41	ppm	98
59) Acenaphthene	7.012	153	731815	33.89	ppm	98
60) 2,4-Dinitrophenol	7.045	184	216650	56.50	ppm	95
61) 4-Nitrophenol	7.119	109	129650	30.38	ppm	90
62) Dibenzofuran	7.194	168	1027418	33.91	ppm	99
63) 2,4-Dinitrotoluene	7.178	165	262238	37.71	ppm	94
64) 2,3,4,6-Tetrachlorophenol	7.322	232	223618	35.91	ppm	92
65) Diethylphthalate	7.451	149	878897	36.05	ppm	98
66) Fluorene	7.579	166	852450	34.48	ppm	98
67) 4-Chlorophenyl-phenyle...	7.579	204	444823	36.07	ppm	95
68) 4-Nitroaniline	7.600	138	187532	32.58	ppm	98
70) 4,6-Dinitro-2-methylph...	7.638	198	155182	34.07	ppm	95
71) n-Nitrosodiphenylamine	7.723	169	739041	34.81	ppm	97
72) 1,2-Diphenylhydrazine	7.771	77	951958	36.14	ppm	98
74) 4-Bromophenyl-phenylether	8.214	248	269726	37.61	ppm	97
75) Hexachlorobenzene	8.279	284	295913	37.48	ppm	97
76) Pentachlorophenol	8.578	266	377977	71.99	ppm	98
77) Phenanthrene	8.898	178	1199223	33.99	ppm	100
78) Anthracene	8.978	178	1227818	35.18	ppm	99
79) Carbazole	9.262	167	1080011	34.54	ppm	98
80) Di-n-butylphthalate	9.972	149	1444041	37.51	ppm	99
81) Fluoranthene	11.041	202	1342588	35.62	ppm	99
82) Octadecane	8.765	57	497112	39.05	ppm	97
84) Benzidine	11.393	184	237001	13.47	ppm	99
85) Pyrene	11.484	202	1346786	36.09	ppm	98
87) Butylbenzylphthalate	13.113	149	592337	38.25	ppm	97
88) Benzo[a]anthracene	14.118	228	1252809	36.20	ppm	99
89) 3,3'-Dichlorobenzidine	14.166	252	330227	26.67	ppm	99
90) Chrysene	14.192	228	1234848	35.52	ppm	99
91) bis(2-Ethylhexyl)phtha...	14.529	149	812763	35.29	ppm	99
93) Di-n-octylphthalate	15.987	149	1341156	34.90	ppm	99
94) Benzo[b]fluoranthene	16.431	252	1216123	37.11	ppm	99
95) Benzo[k]fluoranthene	16.495	252	1156218	36.55	ppm	99
96) Benzo[a]pyrene	17.067	252	1090150	37.25	ppm	99
97) Indeno[1,2,3-cd]pyrene	19.123	276	877220	33.77	ppm	97
98) Dibenz(a,h)acridine	18.771	279	850972	33.47	ppm	99
99) Dibenz[a,h]anthracene	19.193	278	1009633	35.23	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201232a.d
Acq On : 18 Aug 2021 4:55 pm
Operator : kristis
Sample : op34922-bs1 Inst : GCMSF
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 00:46:53 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration

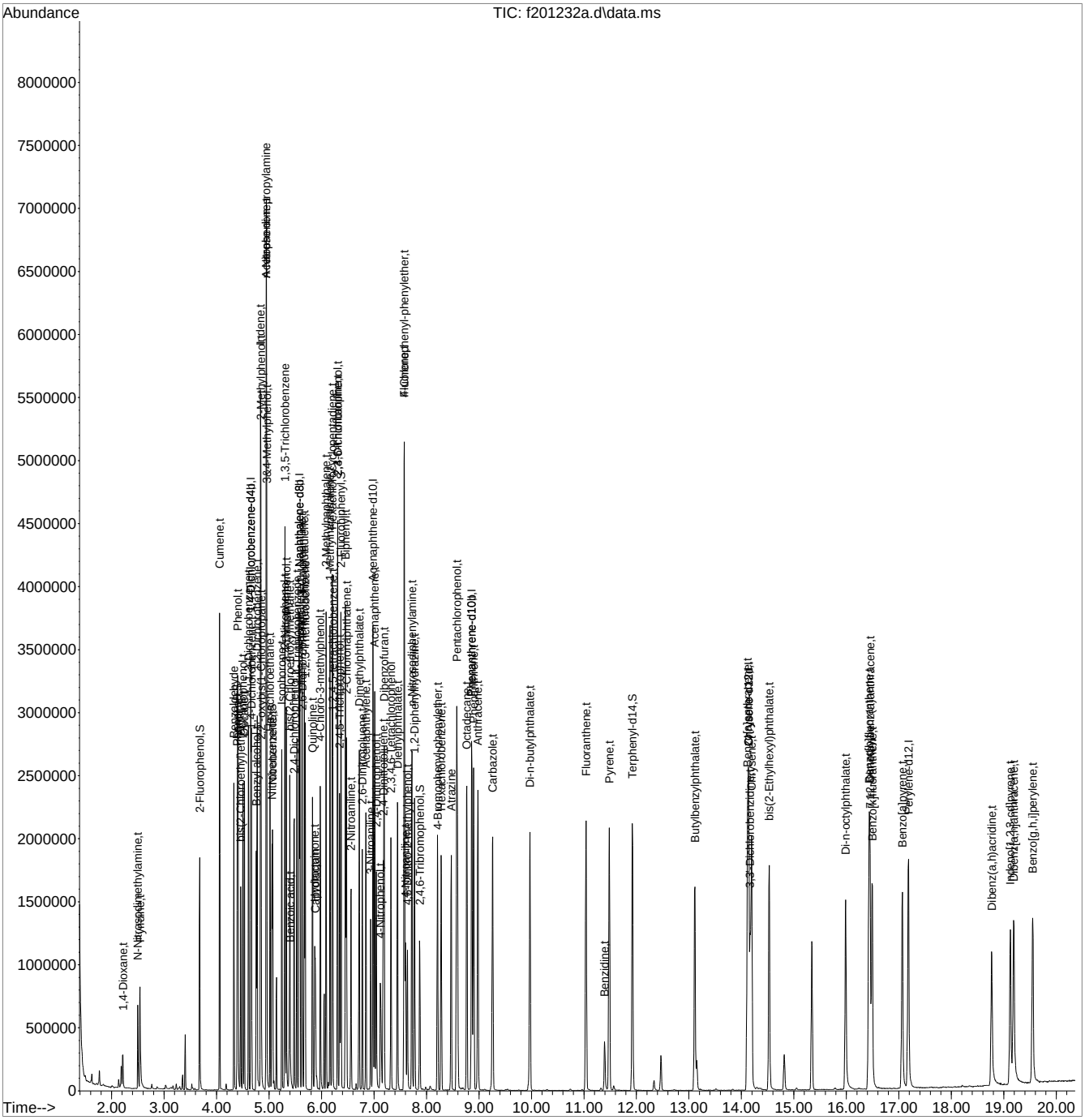
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 7,12-Dimethylbenz(a)an...	16.452	256	578963	39.80	ppm	99
101) Benzo[g,h,i]perylene	19.551	276	1027224	34.23	ppm	98
103) Benzaldehyde	4.331	105	319468	34.43	ppm	98
105) Atrazine	8.471	200	255235	41.64	ppm	96
107) Caprolactam	5.880	55	184034	55.71	ppm	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201232a.d
Acq On : 18 Aug 2021 4:55 pm
Operator : kristis
Sample : op34922-bs1 Inst : GCMSF
Misc : op34922,ef8807,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 00:46:53 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
08/19/21 13:43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201245.d
Acq On : 19 Aug 2021 12:29 am
Operator : kristis
Sample : op34922-ms Inst : GCMSF
Misc : op34922,ef8807,10.5,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 02:22:53 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.651	152	387372	40.00	ppm	0.00
24) Naphthalene-d8	5.575	136	1438348	40.00	ppm	0.00
46) Acenaphthene-d10	6.980	164	798736	40.00	ppm	0.00
69) Phenanthrene-d10	8.861	188	1421605	40.00	ppm	0.00
83) Chrysene-d12	14.139	240	1218442	40.00	ppm	0.00
92) Perylene-d12	17.184	264	1140674	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4b	4.651	152	387372	40.00	ppm	0.00
104) Phenanthrene-d10b	8.861	188	1421605	40.00	ppm	0.00
106) Naphthalene-d8b	5.575	136	1438348	40.00	ppm	0.00
108) Chrysene-d12d	14.139	240	1218442	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.679	112	447867	37.76	ppm	0.00
Spiked Amount 50.000			Recovery = 75.52%			
8) Phenol-d5	4.395	99	564398	35.11	ppm	0.00
Spiked Amount 50.000			Recovery = 70.22%			
25) Nitrobenzene-d5	5.057	82	596181	42.90	ppm	0.00
Spiked Amount 50.000			Recovery = 85.80%			
51) 2-Fluorobiphenyl	6.371	172	1056336	39.76	ppm	0.00
Spiked Amount 50.000			Recovery = 79.52%			
73) 2,4,6-Tribromophenol	7.873	330	145660	38.93	ppm	0.00
Spiked Amount 50.000			Recovery = 77.86%			
86) Terphenyl-d14	11.922	244	1312575	45.16	ppm	0.00
Spiked Amount 50.000			Recovery = 90.32%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.215	88	113671	21.41	ppm	88
3) Pyridine	2.541	79	379311	27.96	ppm	95
4) N-Nitrosodimethylamine	2.498	42	251015	35.71	ppm	89
6) Indene	4.838	116	757318	34.67	ppm	98
7) Cumene	4.058	105	1098471	34.67	ppm	100
9) Phenol	4.405	94	580494	35.68	ppm	92
10) Aniline	4.411	93	495939	24.42	ppm	93
11) bis(2-Chloroethyl)ether	4.459	93	433877	36.34	ppm	98
12) 2-Chlorophenol	4.502	128	442135	34.44	ppm	99
13) Decane	4.528	43	369016	33.42	ppm	97
14) 1,3-Dichlorobenzene	4.608	146	500072	33.74	ppm	97
15) 1,4-Dichlorobenzene	4.667	146	511010	33.88	ppm	96
16) Benzyl alcohol	4.758	108	75094	8.96	ppm	92
17) 1,2-Dichlorobenzene	4.774	146	485231	34.65	ppm	99
18) Acetophenone	4.945	105	663367	35.11	ppm #	78
19) 2-Methylphenol	4.844	108	442804	37.90	ppm	96
20) 2,2'-oxybis(1-Chloropr...	4.849	121	132686	38.16	ppm #	71
21) 3&4-Methylphenol	4.950	108	891941	69.02	ppm	93
22) n-Nitroso-di-n-propyla...	4.945	70	379498	40.23	ppm	95
23) Hexachloroethane	5.020	201	197438	36.49	ppm	97
26) Nitrobenzene	5.068	77	577191	40.00	ppm	93
27) Quinoline	5.827	129	766731	33.88	ppm	96
28) Isophorone	5.239	82	961735	38.80	ppm	98
29) 2-Nitrophenol	5.298	139	241919	37.88	ppm	96
30) 2,4-Dimethylphenol	5.330	107	480973	35.25	ppm	96
31) Benzoic acid	5.388	105	139640m	15.90	ppm	
32) bis(2-Chloroethoxy)met...	5.394	93	507291	36.12	ppm	99
33) 2,4-Dichlorophenol	5.474	162	358635	35.11	ppm	97
34) 2,6-Dichlorophenol	5.634	162	339509	33.29	ppm	95
35) 1,3,5-Trichlorobenzene	5.303	180	456952	37.32	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201245.d
Acq On : 19 Aug 2021 12:29 am
Operator : kristis
Sample : op34922-ms Inst : GCMSF
Misc : op34922,ef8807,10.5,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 02:22:53 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36)	1,2,4-Trichlorobenzene	5.533	180	421680	35.71	ppm	96
37)	1,2,3-Trichlorobenzene	5.688	180	407790	37.40	ppm	95
38)	Naphthalene	5.586	128	1294164	35.71	ppm	99
39)	4-Chloroaniline	5.623	127	402303	27.11	ppm	95
40)	2,3-Dichloroaniline	6.302	161	405136	31.64	ppm	95
41)	Hydroquinone	5.923	110	111477m	10.37	ppm	
42)	Hexachlorobutadiene	5.672	225	285533	38.80	ppm	97
43)	4-Chloro-3-methylphenol	5.981	107	396662	36.26	ppm	94
44)	2-Methylnaphthalene	6.088	141	744384	35.55	ppm	100
45)	1-Methylnaphthalene	6.163	142	817036	36.34	ppm	98
47)	Hexachlorocyclopentadiene	6.206	237	463289	66.15	ppm	100
48)	1,2,4,5-tetrachloroben...	6.216	216	435792	35.93	ppm	99
49)	2,4,6-Trichlorophenol	6.307	196	260594	32.62	ppm	99
50)	2,4,5-Trichlorophenol	6.345	196	309210	38.30	ppm	96
52)	2-Chloronaphthalene	6.478	162	820805	36.22	ppm	97
53)	Biphenyl	6.457	154	1053711	35.86	ppm	99
54)	2-Nitroaniline	6.558	65	297837	41.78	ppm	93
55)	Dimethylphthalate	6.719	163	956013	37.37	ppm	99
56)	Acenaphthylene	6.847	152	939568	34.53	ppm	99
57)	2,6-Dinitrotoluene	6.777	165	211736	41.86	ppm	91
58)	3-Nitroaniline	6.938	138	192216	33.75	ppm	97
59)	Acenaphthene	7.012	153	793339	34.76	ppm	95
60)	2,4-Dinitrophenol	7.045	184	162784	41.36	ppm	85
61)	4-Nitrophenol	7.130	109	154373	34.23	ppm	92
62)	Dibenzofuran	7.194	168	1122455	35.05	ppm	96
63)	2,4-Dinitrotoluene	7.178	165	289307	39.36	ppm	93
64)	2,3,4,6-Tetrachlorophenol	7.322	232	218775	33.25	ppm	92
65)	Diethylphthalate	7.445	149	959828	37.25	ppm	99
66)	Fluorene	7.573	166	936934	35.86	ppm	99
67)	4-Chlorophenyl-phenyle...	7.579	204	485130	37.23	ppm	94
68)	4-Nitroaniline	7.600	138	221564	36.43	ppm	93
70)	4,6-Dinitro-2-methylph...	7.638	198	151749	32.00	ppm	96
71)	n-Nitrosodiphenylamine	7.723	169	861634	38.77	ppm	95
72)	1,2-Diphenylhydrazine	7.771	77	1038825	37.68	ppm	99
74)	4-Bromophenyl-phenylether	8.209	248	295797	39.41	ppm	98
75)	Hexachlorobenzene	8.279	284	313714	37.97	ppm	98
76)	Pentachlorophenol	8.578	266	318974	58.04	ppm	96
77)	Phenanthrene	8.898	178	1332462	36.08	ppm	100
78)	Anthracene	8.978	178	1351756	37.01	ppm	99
79)	Carbazole	9.262	167	1176802	35.96	ppm	99
80)	Di-n-butylphthalate	9.972	149	1557860	38.67	ppm	100
81)	Fluoranthene	11.041	202	1421716	36.04	ppm	99
82)	Octadecane	8.765	57	540309	40.55	ppm	95
84)	Benzidine	11.393	184	228794	12.78	ppm	98
85)	Pyrene	11.484	202	1456140	38.21	ppm	97
87)	Butylbenzylphthalate	13.113	149	650112	41.12	ppm	99
88)	Benzo[a]anthracene	14.118	228	1332778	37.71	ppm	100
89)	3,3'-Dichlorobenzidine	14.166	252	382642	30.27	ppm	99
90)	Chrysene	14.192	228	1317378	37.11	ppm	98
91)	bis(2-Ethylhexyl)phtha...	14.529	149	898235	38.02	ppm	98
93)	Di-n-octylphthalate	15.987	149	1500842	38.00	ppm	99
94)	Benzo[b]fluoranthene	16.431	252	1299435	38.86	ppm	99
95)	Benzo[k]fluoranthene	16.495	252	1219337	37.77	ppm	99
96)	Benzo[a]pyrene	17.067	252	1182996	39.61	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.129	276	1000154	37.73	ppm	98
98)	Dibenz(a,h)acridine	18.771	279	977334	37.67	ppm	98
99)	Dibenz[a,h]anthracene	19.193	278	1143307	39.10	ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201245.d
Acq On : 19 Aug 2021 12:29 am
Operator : kristis
Sample : op34922-ms Inst : GCMSF
Misc : op34922,ef8807,10.5,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 02:22:53 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration

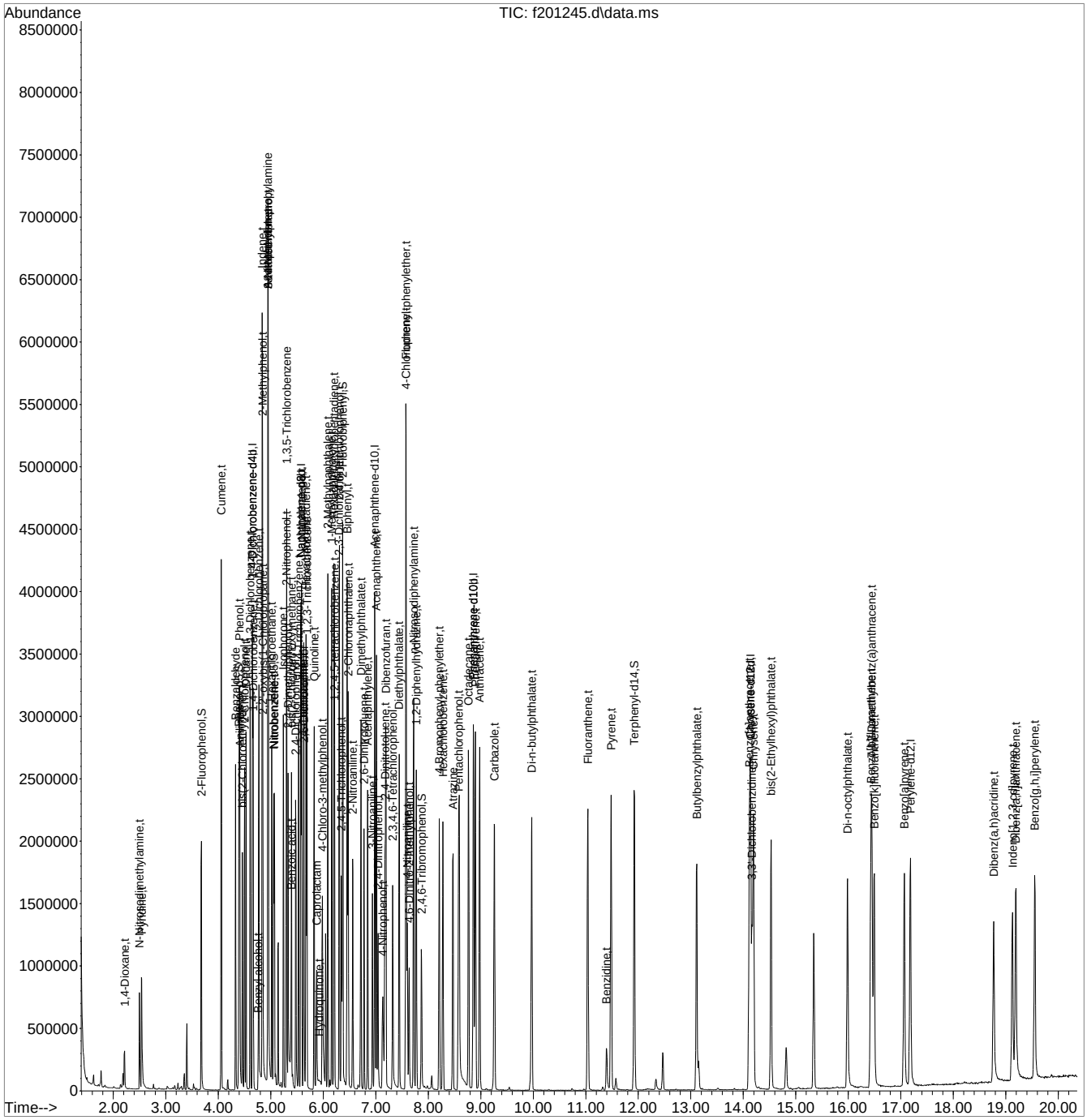
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 7,12-Dimethylbenz(a)an...	16.447	256	586450	39.50	ppm	99
101) Benzo[g,h,i]perylene	19.551	276	1168376	38.15	ppm	99
103) Benzaldehyde	4.331	105	342669	34.20	ppm	96
105) Atrazine	8.471	200	279410	43.55	ppm	99
107) Caprolactam	5.875	55	162079	45.65	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201245.d
Acq On : 19 Aug 2021 12:29 am
Operator : kristis
Sample : op34922-ms Inst : GCMSF
Misc : op34922,ef8807,10.5,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 02:22:53 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration



Manual Integration Approval Summary

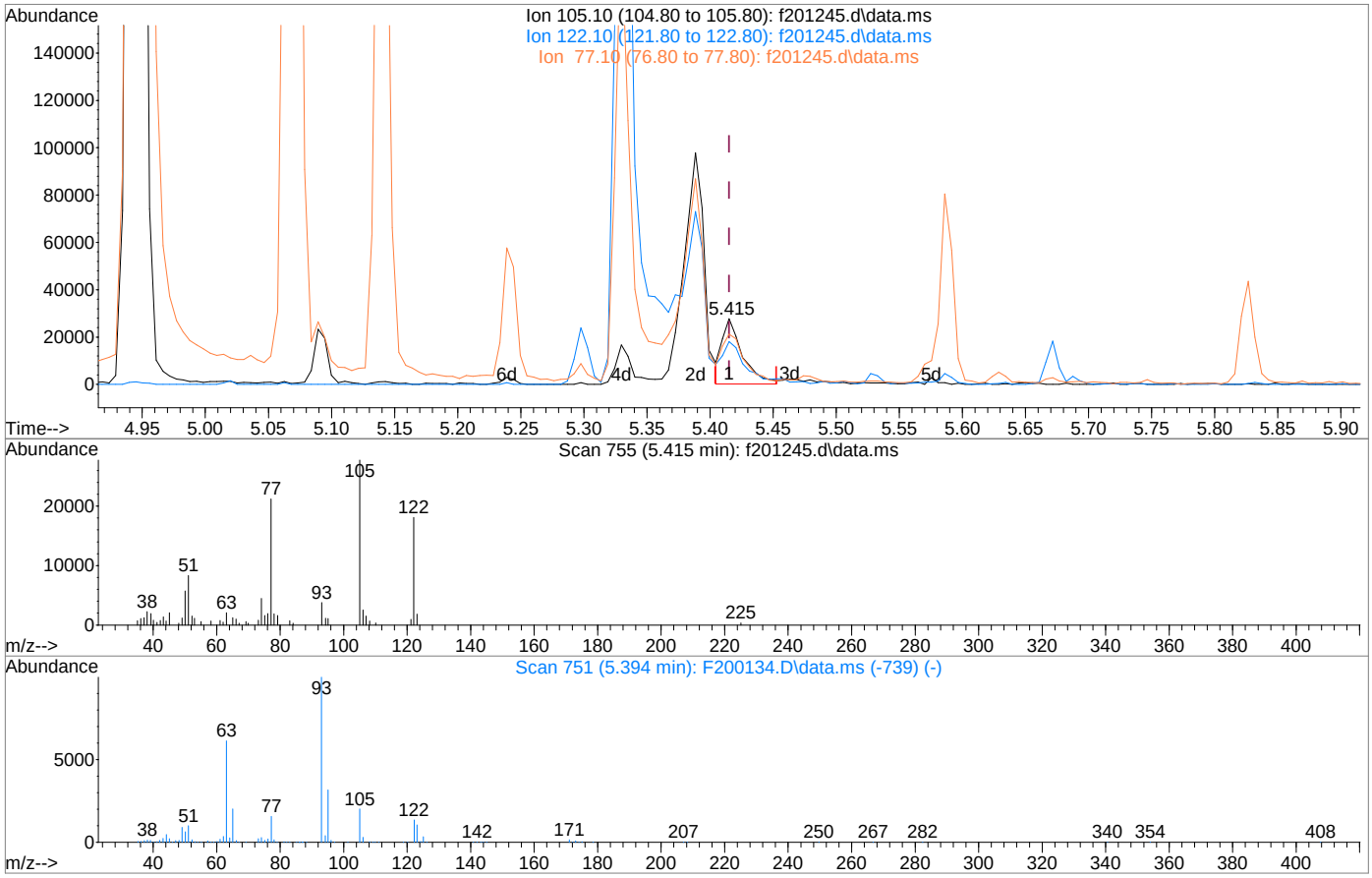
Sample Number: OP34922-MS
Lab FileID: F201245.D
Injection Time: 08/19/21 00:29
Method: SW846 8270E
Analyst approved: 08/19/21 02:46 Jon Kreigmor Mamanta
Supervisor approved: 08/19/21 13:43 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		5.39	Poor instrument integration
Hydroquinone	123-31-9		5.92	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201245.d
Acq On : 19 Aug 2021 12:29 am
Operator : kristis
Sample : op34922-ms Inst : GCMSF
Misc : op34922,ef8807,10.5,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 02:10:57 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration



TIC: f201245.d\data.ms

(31) Benzoic acid (t)

5.415min (+0.000) 4.79ppm

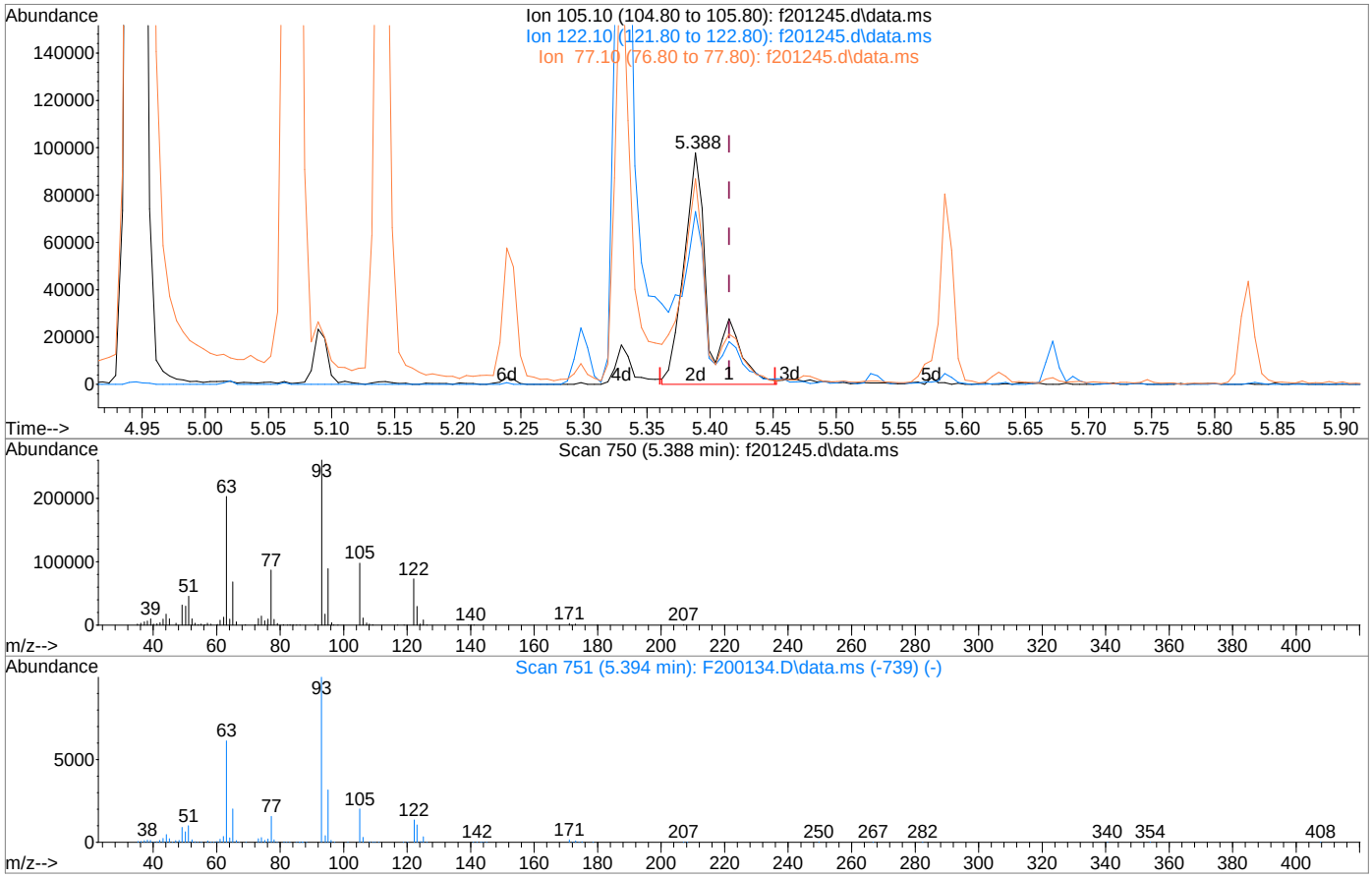
response 30934

Ion	Exp%	Act%
105.10	100	100
122.10	72.90	56.84
77.10	89.70	72.51
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201245.d
Acq On : 19 Aug 2021 12:29 am
Operator : kristis
Sample : op34922-ms Inst : GCMSF
Misc : op34922,ef8807,10.5,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 02:10:57 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration



TIC: f201245.d\data.ms

(31) Benzoic acid (t)

5.388min (-0.027) 15.90ppm m

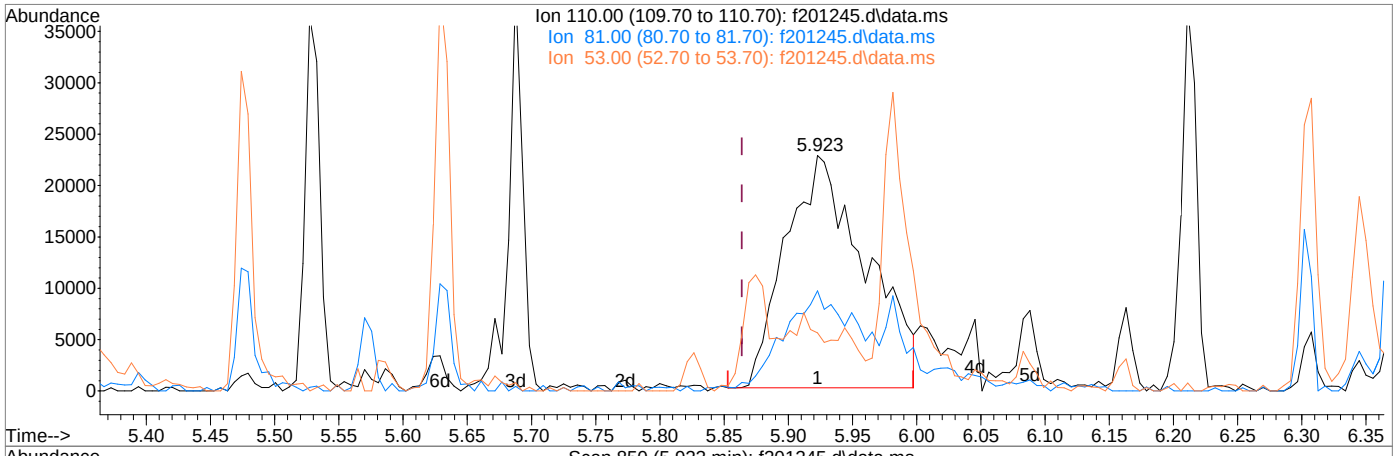
response 139640

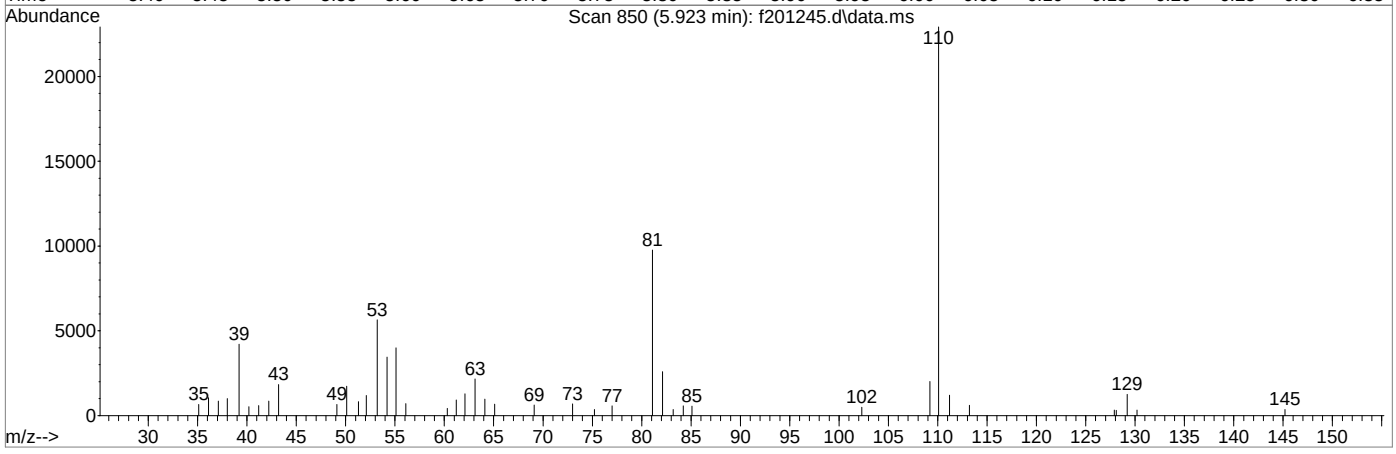
Ion	Exp%	Act%
105.10	100	100
122.10	72.90	74.60
77.10	89.70	88.74
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201245.d
Acq On : 19 Aug 2021 12:29 am
Operator : kristis
Sample : op34922-ms Inst : GCMSF
Misc : op34922,ef8807,10.5,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 02:19:25 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration





TIC: f201245.d\data.ms

(41) Hydroquinone (t)

5.923min (+0.059) 9.16ppm

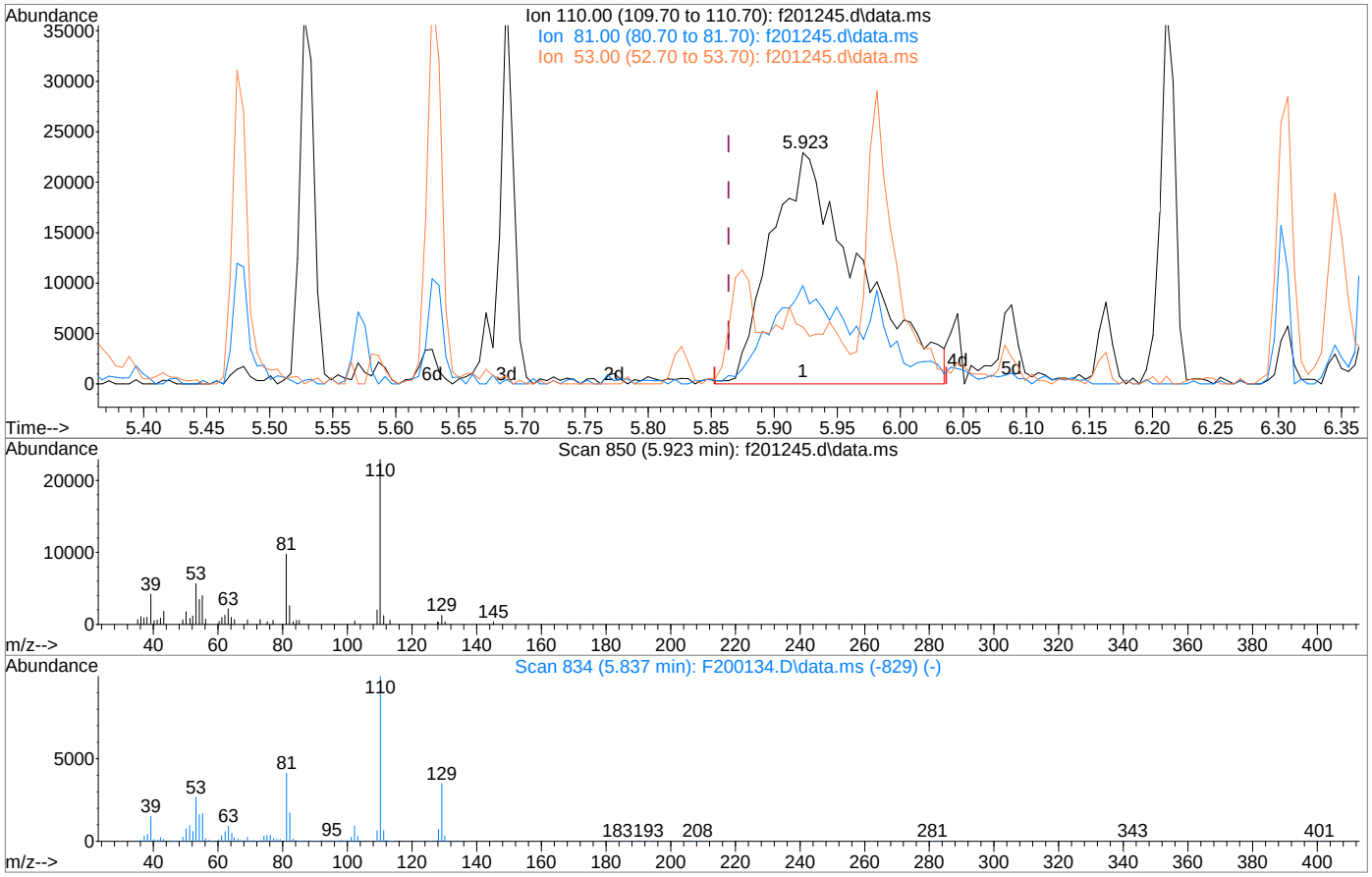
response 98442

Ion	Exp%	Act%
110.00	100	100
81.00	42.40	37.25
53.00	27.80	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201245.d
Acq On : 19 Aug 2021 12:29 am
Operator : kristis
Sample : op34922-ms Inst : GCMSF
Misc : op34922,ef8807,10.5,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 02:22:53 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration



TIC: f201245.d\data.ms

(41) Hydroquinone (t)

5.923min (+0.059) 10.37ppm m

response 111477

Ion	Exp%	Act%
110.00	100	100
81.00	42.40	42.57
53.00	27.80	24.62
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
08/19/21 13:43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201246.d
Acq On : 19 Aug 2021 12:56 am
Operator : kristis
Sample : op34922-msd Inst : GCMSF
Misc : op34922,ef8807,11.2,,,1,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 02:21:30 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	4.651	152	388808	40.00	ppm		0.00
24) Naphthalene-d8	5.570	136	1444988	40.00	ppm		0.00
46) Acenaphthene-d10	6.981	164	810722	40.00	ppm		0.00
69) Phenanthrene-d10	8.861	188	1430887	40.00	ppm		0.00
83) Chrysene-d12	14.134	240	1209977	40.00	ppm		-0.01
92) Perylene-d12	17.179	264	1133854	40.00	ppm		-0.01
102) 1,4-Dichlorobenzene-d4b	4.651	152	388808	40.00	ppm		0.00
104) Phenanthrene-d10b	8.861	188	1430887	40.00	ppm		0.00
106) Naphthalene-d8b	5.570	136	1444988	40.00	ppm		0.00
108) Chrysene-d12d	14.134	240	1209977	40.00	ppm		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	3.679	112	436729	36.69	ppm		0.00
Spiked Amount 50.000			Recovery = 73.38%				
8) Phenol-d5	4.395	99	560484	34.74	ppm		0.00
Spiked Amount 50.000			Recovery = 69.48%				
25) Nitrobenzene-d5	5.052	82	586612	42.02	ppm		0.00
Spiked Amount 50.000			Recovery = 84.04%				
51) 2-Fluorobiphenyl	6.372	172	1035802	38.41	ppm		0.00
Spiked Amount 50.000			Recovery = 76.82%				
73) 2,4,6-Tribromophenol	7.873	330	142935	37.95	ppm		0.00
Spiked Amount 50.000			Recovery = 75.90%				
86) Terphenyl-d14	11.922	244	1254539	43.47	ppm		0.00
Spiked Amount 50.000			Recovery = 86.94%				
Target Compounds							Qvalue
2) 1,4-Dioxane	2.215	88	90437	16.97	ppm		98
3) Pyridine	2.541	79	328772	24.14	ppm		96
4) N-Nitrosodimethylamine	2.498	42	250015	35.43	ppm		91
6) Indene	4.838	116	611862	27.91	ppm		96
7) Cumene	4.058	105	886890	27.89	ppm		99
9) Phenol	4.406	94	462901	28.35	ppm		96
10) Aniline	4.411	93	424105	20.80	ppm		93
11) bis(2-Chloroethyl)ether	4.459	93	348988	29.12	ppm		98
12) 2-Chlorophenol	4.502	128	355758	27.61	ppm		99
13) Decane	4.528	43	303816	27.41	ppm		98
14) 1,3-Dichlorobenzene	4.609	146	407597	27.40	ppm		97
15) 1,4-Dichlorobenzene	4.662	146	412629	27.25	ppm		100
16) Benzyl alcohol	4.774	108	39236	4.67	ppm	#	49
17) 1,2-Dichlorobenzene	4.774	146	396800	28.23	ppm		97
18) Acetophenone	4.945	105	531340	28.02	ppm		82
19) 2-Methylphenol	4.844	108	356331	30.38	ppm		99
20) 2,2'-oxybis(1-Chloropr...	4.849	121	106993	30.66	ppm	#	75
21) 3&4-Methylphenol	4.950	108	708855	54.65	ppm		93
22) n-Nitroso-di-n-propyla...	4.945	70	374001	39.50	ppm		94
23) Hexachloroethane	5.020	201	160862	29.62	ppm		94
26) Nitrobenzene	5.068	77	490144	33.81	ppm		95
27) Quinoline	5.827	129	508032	22.35	ppm		98
28) Isophorone	5.239	82	771883	31.00	ppm		99
29) 2-Nitrophenol	5.298	139	195356	30.45	ppm		87
30) 2,4-Dimethylphenol	5.330	107	379905	27.71	ppm		94
31) Benzoic acid	5.383	105	122117m	14.07	ppm		
32) bis(2-Chloroethoxy)met...	5.394	93	417182	29.57	ppm		100
33) 2,4-Dichlorophenol	5.474	162	291227	28.38	ppm		94
34) 2,6-Dichlorophenol	5.634	162	273340	26.68	ppm		97
35) 1,3,5-Trichlorobenzene	5.303	180	366948	29.83	ppm		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201246.d
Acq On : 19 Aug 2021 12:56 am
Operator : kristis
Sample : op34922-msd Inst : GCMSF
Misc : op34922,ef8807,11.2,,,1,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 02:21:30 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36)	1,2,4-Trichlorobenzene	5.527	180	352656	29.73	ppm		99
37)	1,2,3-Trichlorobenzene	5.688	180	328106	29.96	ppm		96
38)	Naphthalene	5.586	128	1041023	28.59	ppm		100
39)	4-Chloroaniline	5.624	127	365432	24.51	ppm		96
40)	2,3-Dichloroaniline	6.302	161	324078	25.19	ppm		97
41)	Hydroquinone	5.917	110	92988	8.61	ppm		82
42)	Hexachlorobutadiene	5.672	225	232578	31.46	ppm		97
43)	4-Chloro-3-methylphenol	5.982	107	320891	29.20	ppm		94
44)	2-Methylnaphthalene	6.088	141	605366	28.78	ppm		99
45)	1-Methylnaphthalene	6.163	142	645678	28.59	ppm		98
47)	Hexachlorocyclopentadiene	6.206	237	371335	52.24	ppm		98
48)	1,2,4,5-tetrachloroben...	6.211	216	354748	28.82	ppm		98
49)	2,4,6-Trichlorophenol	6.307	196	207597	25.60	ppm		98
50)	2,4,5-Trichlorophenol	6.345	196	251683	30.71	ppm		97
52)	2-Chloronaphthalene	6.473	162	656595	28.55	ppm		98
53)	Biphenyl	6.457	154	832862	27.92	ppm		99
54)	2-Nitroaniline	6.558	65	284894	39.37	ppm		93
55)	Dimethylphthalate	6.719	163	759732	29.26	ppm		100
56)	Acenaphthylene	6.847	152	759354	27.49	ppm		98
57)	2,6-Dinitrotoluene	6.778	165	170865	33.28	ppm		92
58)	3-Nitroaniline	6.938	138	178897	30.95	ppm		97
59)	Acenaphthene	7.013	153	641692	27.70	ppm		95
60)	2,4-Dinitrophenol	7.045	184	115372	29.75	ppm		74
61)	4-Nitrophenol	7.130	109	104547	22.84	ppm	#	68
62)	Dibenzofuran	7.189	168	898377	27.64	ppm		99
63)	2,4-Dinitrotoluene	7.173	165	227488	30.49	ppm		98
64)	2,3,4,6-Tetrachlorophenol	7.322	232	179988	26.95	ppm		97
65)	Diethylphthalate	7.445	149	761738	29.13	ppm		98
66)	Fluorene	7.574	166	733163	27.64	ppm		99
67)	4-Chlorophenyl-phenyle...	7.579	204	378219	28.59	ppm		94
68)	4-Nitroaniline	7.600	138	201394	32.62	ppm		96
70)	4,6-Dinitro-2-methylph...	7.638	198	114435	24.56	ppm		97
71)	n-Nitrosodiphenylamine	7.723	169	829430	37.08	ppm		98
72)	1,2-Diphenylhydrazine	7.771	77	829842	29.91	ppm		96
74)	4-Bromophenyl-phenylether	8.209	248	235094	31.12	ppm		97
75)	Hexachlorobenzene	8.279	284	247189	29.72	ppm		97
76)	Pentachlorophenol	8.573	266	251821	45.53	ppm		98
77)	Phenanthrene	8.898	178	1025531	27.59	ppm		99
78)	Anthracene	8.979	178	1071044	29.13	ppm		99
79)	Carbazole	9.256	167	927700	28.17	ppm		99
80)	Di-n-butylphthalate	9.967	149	1245798	30.72	ppm		99
81)	Fluoranthene	11.035	202	1127788	28.40	ppm		98
82)	Octadecane	8.765	57	428042	31.92	ppm		96
84)	Benzidine	11.399	184	104966	6.21	ppm		96
85)	Pyrene	11.479	202	1141447	30.16	ppm		98
87)	Butylbenzylphthalate	13.108	149	501312	31.93	ppm		99
88)	Benzo[a]anthracene	14.118	228	1037687	29.57	ppm		98
89)	3,3'-Dichlorobenzidine	14.166	252	361766	28.82	ppm		97
90)	Chrysene	14.193	228	1014301	28.77	ppm		96
91)	bis(2-Ethylhexyl)phtha...	14.529	149	701053	30.30	ppm		98
93)	Di-n-octylphthalate	15.982	149	1143926	29.73	ppm		100
94)	Benzo[b]fluoranthene	16.431	252	994766	29.93	ppm		99
95)	Benzo[k]fluoranthene	16.490	252	966006	30.10	ppm		99
96)	Benzo[a]pyrene	17.067	252	923873	31.12	ppm		98
97)	Indeno[1,2,3-cd]pyrene	19.123	276	800101	30.37	ppm		99
98)	Dibenz(a,h)acridine	18.766	279	730796	28.34	ppm		96
99)	Dibenz[a,h]anthracene	19.188	278	859392	29.56	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201246.d
Acq On : 19 Aug 2021 12:56 am
Operator : kristis
Sample : op34922-msd Inst : GCMSF
Misc : op34922,ef8807,11.2,,,1,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 02:21:30 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration

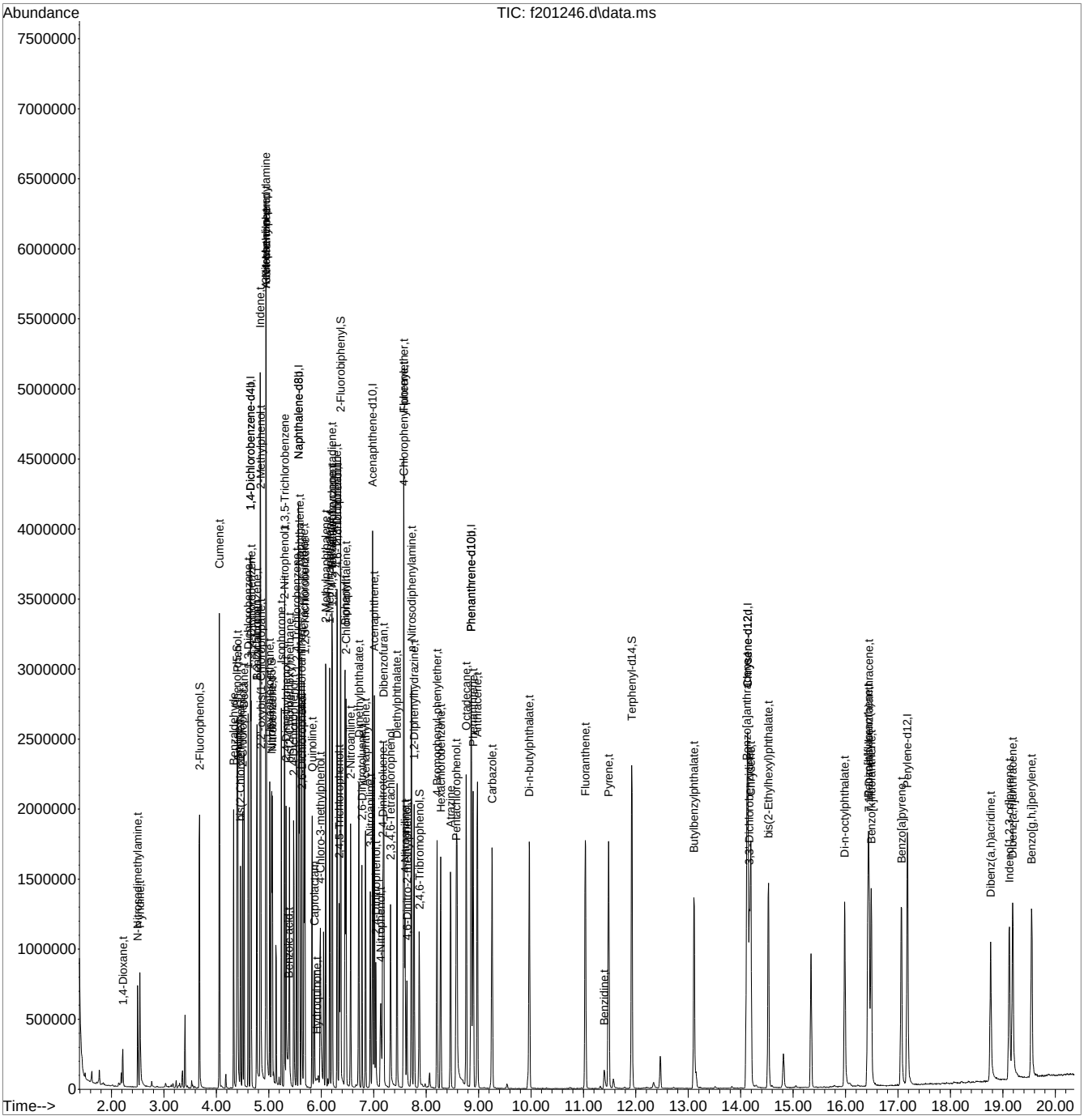
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 7,12-Dimethylbenz(a)an...	16.447	256	443109	30.03	ppm	98
101) Benzo[g,h,i]perylene	19.545	276	937194	30.79	ppm	99
103) Benzaldehyde	4.331	105	278634	27.71	ppm	97
105) Atrazine	8.466	200	216603	33.54	ppm	89
107) Caprolactam	5.869	55	119323	33.45	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201246.d
Acq On : 19 Aug 2021 12:56 am
Operator : kristis
Sample : op34922-msd Inst : GCMSF
Misc : op34922,ef8807,11.2,,,1,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 02:21:30 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration



Manual Integration Approval Summary

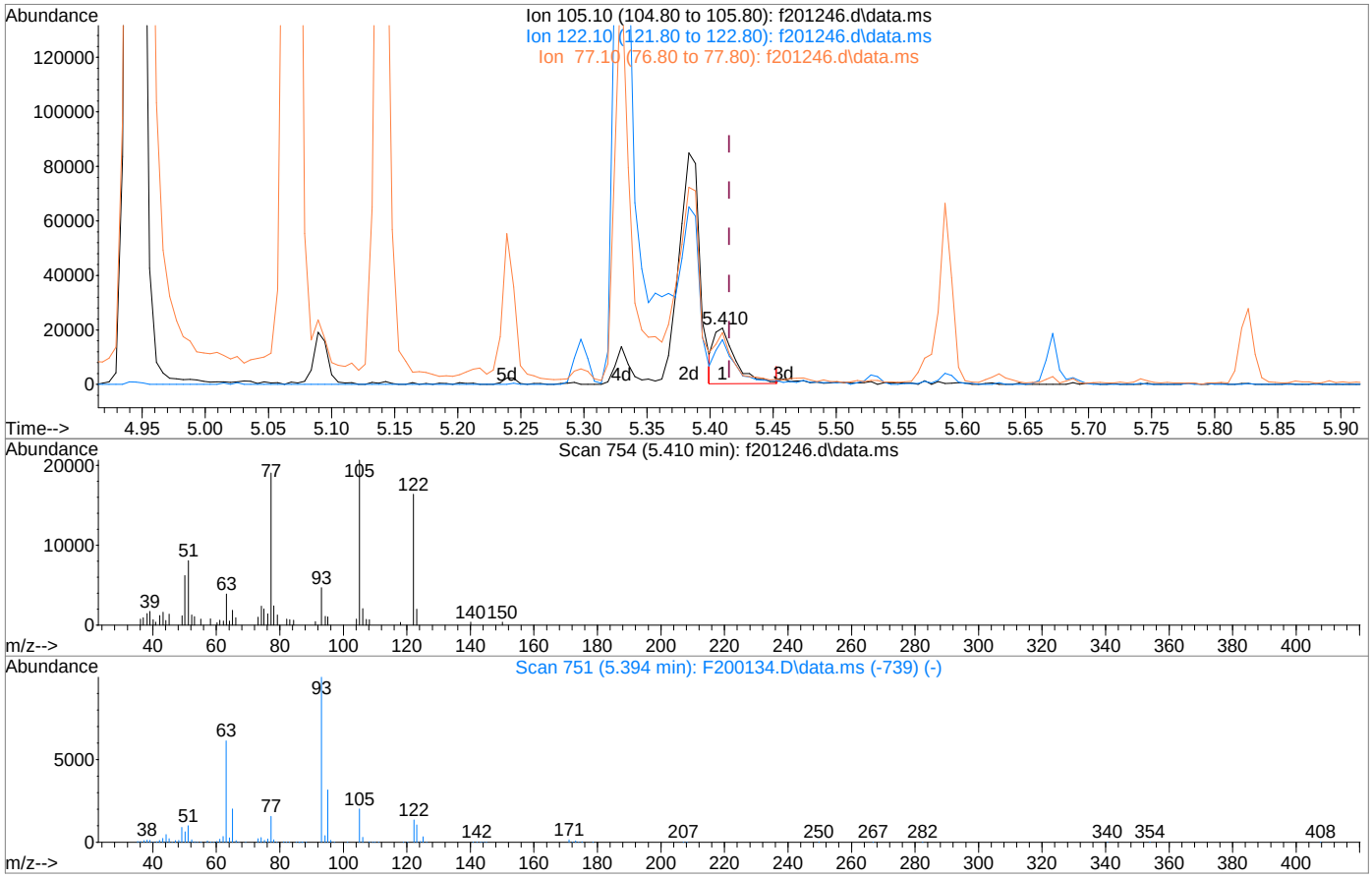
Sample Number: OP34922-MSD
Lab FileID: F201246.D
Injection Time: 08/19/21 00:56
Method: SW846 8270E
Analyst approved: 08/19/21 02:46 Jon Kreigmor Mamanta
Supervisor approved: 08/19/21 13:43 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		5.38	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201246.d
Acq On : 19 Aug 2021 12:56 am
Operator : kristis
Sample : op34922-msd Inst : GCMSF
Misc : op34922,ef8807,11.2,,,1,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 02:11:32 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration



TIC: f201246.d\data.ms

(31) Benzoic acid (t)

5.410min (-0.005) 4.03ppm

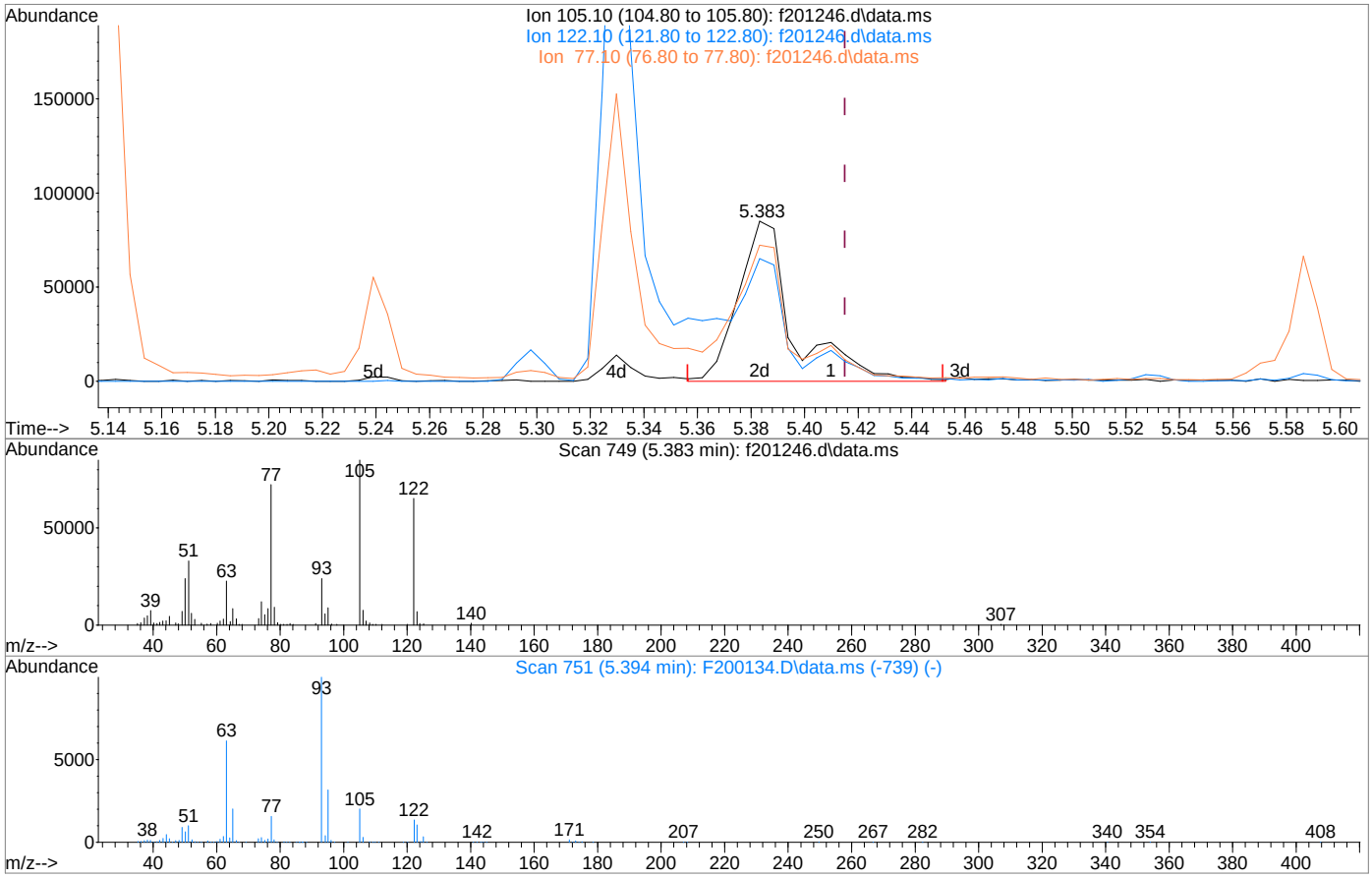
response 23742

Ion	Exp%	Act%
105.10	100	100
122.10	72.90	83.60
77.10	89.70	83.21
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201246.d
Acq On : 19 Aug 2021 12:56 am
Operator : kristis
Sample : op34922-msd Inst : GCMSF
Misc : op34922,ef8807,11.2,,,1,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 02:11:32 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Aug 19 00:44:02 2021
Response via : Initial Calibration



TIC: f201246.d\data.ms

(31) Benzoic acid (t)

5.383min (-0.032) 14.07ppm m

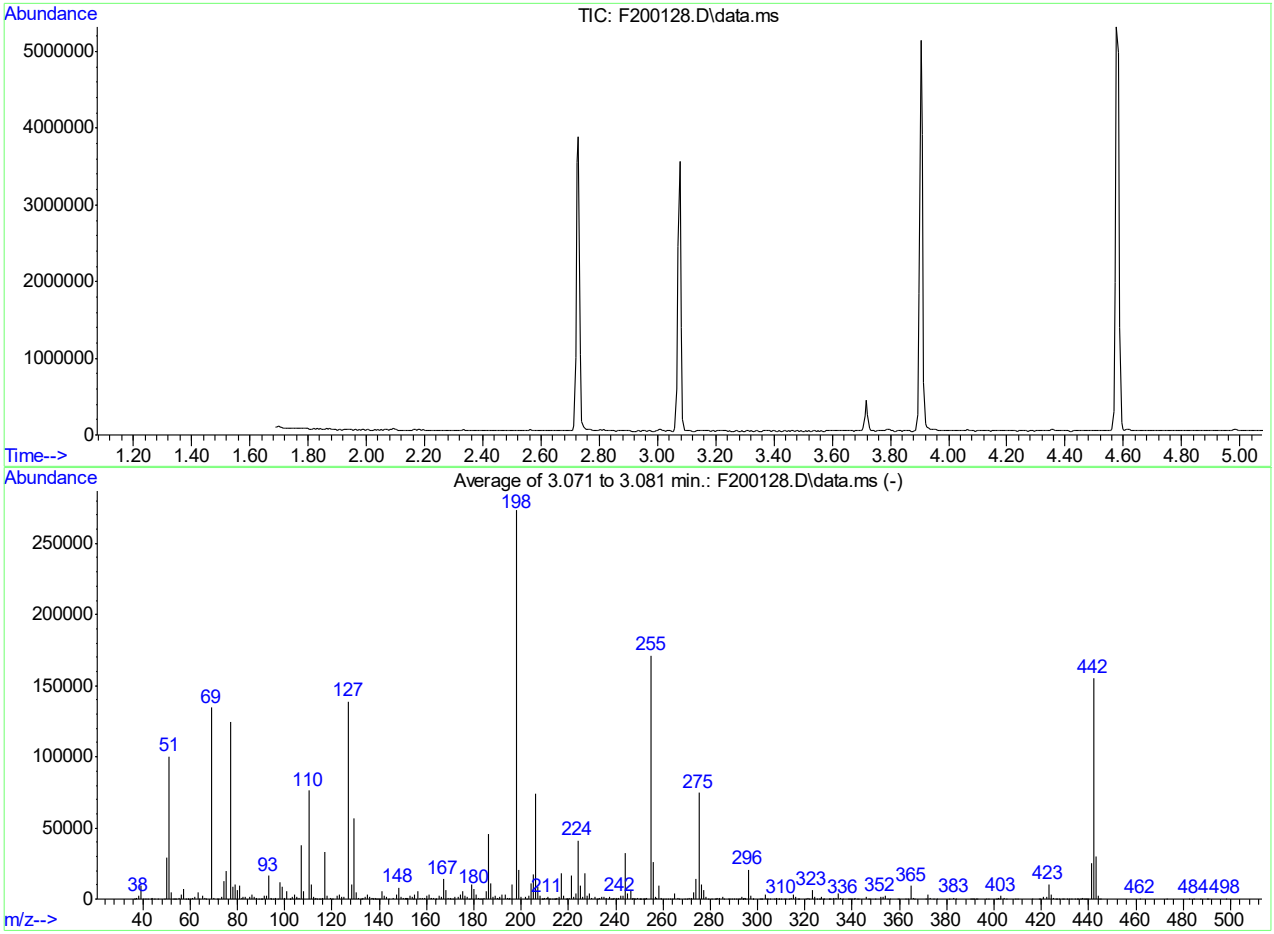
response 122117

Ion	Exp%	Act%
105.10	100	100
122.10	72.90	76.71
77.10	89.70	85.13
0.00	0.00	0.00

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF8747\F200128.D Vial: 1
Acq On : 26 Jun 2021 2:25 am Operator: chriss2
Sample : dftpp Inst : GCMSF
Misc : op30563,ef8747,1000,,,1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um



AutoFind: Scans 260, 261, 262; Background Corrected with Scan 255

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.7	100231	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	49.3	134557	PASS
70	69	0.00	2	0.5	606	PASS
127	198	40	60	50.8	138853	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	273194	PASS
199	198	5	9	7.5	20573	PASS
275	198	10	30	27.3	74501	PASS
365	198	1	100	3.4	9164	PASS
441	443	0.10	100	85.3	25371	PASS
442	198	40	100	56.8	155261	PASS
443	442	17	23	19.2	29736	PASS

F200128.D DFTPPF.M Sat Jun 26 08:24:14 2021

Average of 3.071 to 3.081 min.: F200128.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	248	46.15	150	58.15	414	69.05	134557
36.90	122	49.10	293	59.10	130	70.10	606
37.20	436	50.15	28846	59.30	77	71.25	58
38.15	2299	51.15	100231	60.20	285	71.90	110
39.20	9572	52.15	4816	61.10	1086	73.20	1348
40.15	306	53.00	42	62.15	1334	74.15	12770
41.10	224	53.25	202	63.15	4659	75.10	19949
42.10	297	53.90	53	64.00	347	77.15	124426
43.25	337	55.15	463	65.15	2547	78.20	8438
44.15	517	56.15	3291	66.15	486	79.20	9995
45.10	106	57.15	6746	66.90	168	80.10	6606

Average of 3.071 to 3.081 min.: F200128.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
81.10	9457	91.20	2178	101.05	5240	111.05	10332
82.00	649	92.15	2439	102.15	170	112.15	1426
82.15	1638	93.10	16268	102.40	146	112.85	320
83.10	1882	94.10	730	103.05	1948	113.15	556
85.10	1950	94.30	97	104.10	3561	113.40	121
86.00	2810	95.15	373	105.00	961	114.65	134
87.10	1259	96.25	714	105.20	1679	115.25	260
88.20	537	97.05	15	106.20	804	116.10	439
88.95	197	98.10	11913	107.10	37774	117.05	32987
89.80	103	99.15	8431	108.15	5642	118.10	2219
90.20	172	100.10	1167	110.10	76112	119.15	478

Average of 3.071 to 3.081 min.: F200128.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
119.90	112	132.20	308	138.90	226	149.20	1532
120.20	296	132.40	385	139.20	217	150.10	643
122.10	2714	133.20	568	139.90	99	150.90	88
123.15	3467	134.10	1624	140.15	336	151.15	861
124.10	1750	135.10	3145	141.10	5476	151.40	98
125.20	1627	136.10	1496	142.10	2449	151.75	947
127.10	138853	137.00	564	143.15	1422	152.20	492
128.15	10647	137.20	898	144.15	398	153.05	2745
129.10	56893	137.50	192	146.05	1030	154.10	1373
130.20	4567	138.10	121	147.05	3162	154.40	283
131.15	886	138.25	546	148.10	8201	155.10	3187

Average of 3.071 to 3.081 min.: F200128.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
156.10	5303	165.10	2038	175.10	5743	184.05	1147
157.15	1161	166.10	1858	176.10	2073	185.10	5565
158.10	1195	167.10	14121	177.10	1865	186.10	45464
159.05	939	168.10	6392	178.10	34	187.15	11148
160.15	2201	169.15	1026	179.05	10648	188.15	1745
161.10	2886	170.00	480	180.10	7225	189.10	2279
162.00	637	170.20	413	181.15	3143	189.95	448
162.20	551	171.10	174	182.05	629	190.30	199
163.15	458	172.15	1575	182.50	102	191.00	1568
163.80	125	173.25	1593	182.90	206	192.05	3291
164.10	208	174.15	2946	183.20	364	193.10	3409

Average of 3.071 to 3.081 min.: F200128.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
194.15	912	205.15	17128	211.80	152	219.20	141
194.70	69	206.10	74181	212.20	111	219.50	100
195.00	647	207.15	8366	213.15	171	220.10	675
196.15	10248	208.05	2049	214.00	55	221.15	16830

198.10	273194	208.90	145	214.30	109	222.00	1845
199.10	20573	209.15	403	214.70	133	223.15	4146
200.05	1314	209.50	100	215.10	894	224.10	41093
201.65	1994	209.90	526	216.05	1774	225.10	9718
202.40	195	210.90	654	217.10	18128	226.15	1723
203.05	2030	211.10	1441	218.05	2290	227.10	18527
204.10	10860	211.30	666	218.90	65	228.10	2743

Average of 3.071 to 3.081 min.: F200128.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
229.00	3786	237.85	164	246.15	6483	252.00	297
230.00	673	238.25	178	246.90	343	252.20	56
231.10	1589	238.60	66	247.10	653	252.50	133
232.30	78	239.15	757	247.70	80	253.05	820
232.60	86	240.10	643	247.95	258	255.10	171146
233.15	586	240.90	226	248.50	95	256.10	25660
234.15	1217	241.15	1099	249.10	1060	256.90	1478
235.15	1326	242.05	2160	250.00	167	257.10	432
236.10	735	243.10	2624	250.25	129	258.10	9117
236.80	289	244.15	32656	250.85	357	259.10	309
237.15	1509	245.10	4272	251.70	122	259.25	934

Average of 3.071 to 3.081 min.: F200128.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
259.90	78	271.90	448	283.10	558	293.10	1359
261.10	231	273.05	5046	284.05	449	293.90	151
262.20	74	274.10	13831	285.15	1375	294.00	50
263.15	227	275.10	74501	285.90	58	294.15	492
264.00	429	276.10	10487	287.60	71	294.60	212
265.10	3652	277.10	6725	288.30	75	294.95	631
266.15	718	278.05	1434	289.10	188	296.05	20640
267.00	169	279.30	52	290.10	320	297.05	2600
269.20	88	280.40	100	291.00	219	298.10	120
270.10	306	281.80	154	291.90	77	298.30	132
271.10	540	282.20	272	292.20	186	301.00	110

Average of 3.071 to 3.081 min.: F200128.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
301.25	175	311.30	70	323.10	6578	332.00	583
301.90	261	311.80	65	324.05	1256	333.00	631
303.15	3284	313.10	136	325.10	53	334.15	3896
303.90	152	314.05	1201	326.00	123	335.05	1172
304.20	428	315.05	3185	326.30	162	336.10	422
305.00	65	316.10	1223	327.05	1550	338.30	50
306.90	115	316.90	70	327.90	366	338.80	130
308.10	545	317.30	150	328.10	142	339.20	73
308.85	146	320.30	94	330.10	67	339.95	131
309.10	78	321.10	1026	330.30	91	340.90	204
310.15	270	322.00	57	331.00	66	341.10	824

Average of 3.071 to 3.081 min.: F200128.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
342.10	254	359.20	257	375.60	72	397.80	67
342.60	149	359.90	55	380.90	87	401.00	176
346.05	1316	362.50	60	383.15	1026	401.20	173
346.80	139	363.65	251	383.90	131	402.05	1023
347.50	123	365.05	9164	390.10	218	402.30	324
349.80	131	365.90	829	390.40	66	403.00	2006
352.10	1878	366.20	245	391.00	207	404.05	906
353.20	1420	371.05	236	391.30	261	405.00	150
354.15	2044	372.20	3254	392.20	61	409.00	50
355.00	155	373.00	618	393.00	77	410.20	144
355.80	80	374.20	71	396.70	108	416.10	123

Average of 3.071 to 3.081 min.: F200128.D\data.ms

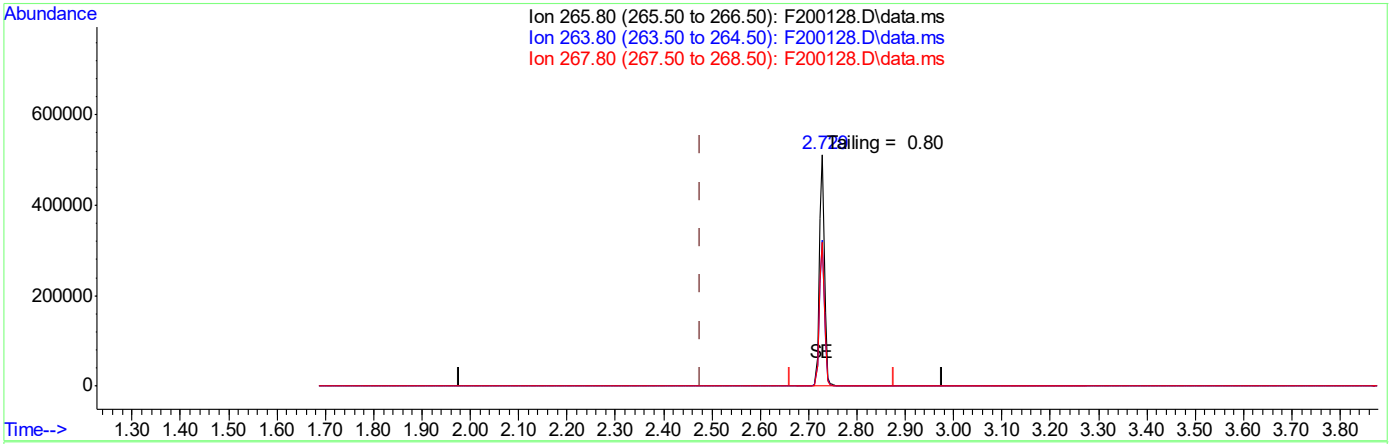
dftpp
Modified:subtracted

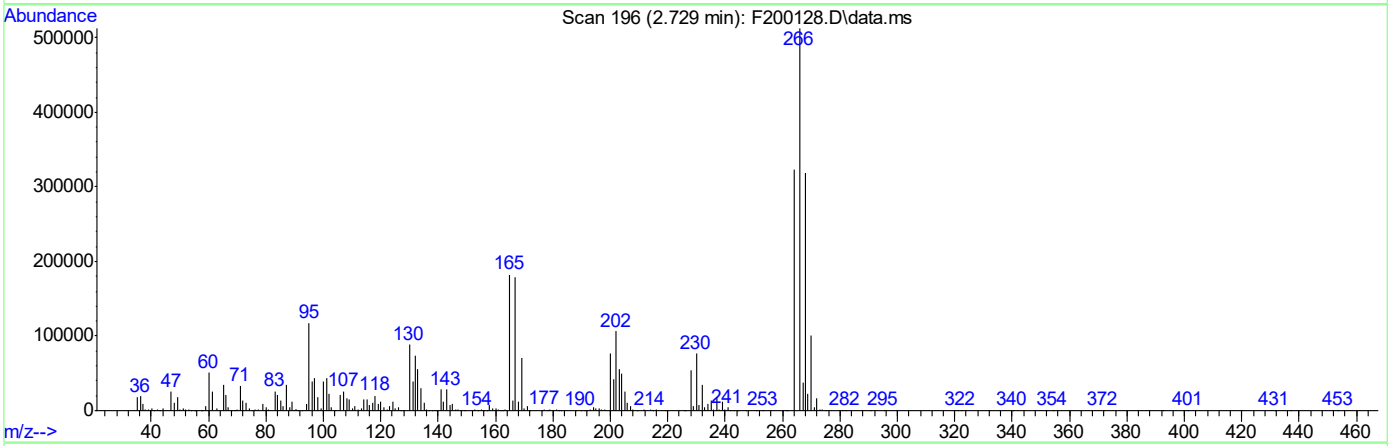
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
418.90	91	429.50	173	438.40	130	473.10	59
419.50	50	430.70	69	438.75	366	482.70	89
421.00	1954	431.70	291	439.30	332	484.60	97
422.10	1661	432.80	200	440.00	404	487.10	87
423.10	10258	434.00	93	441.10	25371	490.00	57
424.10	2856	435.20	277	442.10	155261	490.50	52
425.00	463	435.80	69	443.10	29736	498.00	104
425.90	121	436.50	135	444.05	2561		
426.50	50	436.90	266	444.80	101		
427.60	101	437.50	507	445.20	92		
428.90	90	437.90	63	461.70	85		

Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200128.D
Acq On : 26 Jun 2021 2:25 am
Operator : chriss2
Sample : dftpp
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 26 02:31:54 2021
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPF.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Apr 17 09:43:02 2020
Response via : Initial Calibration





TIC: F200128.D\data.ms

(1) Pentachlorophenol (t)

2.729min (+0.252) 294.97ppb m

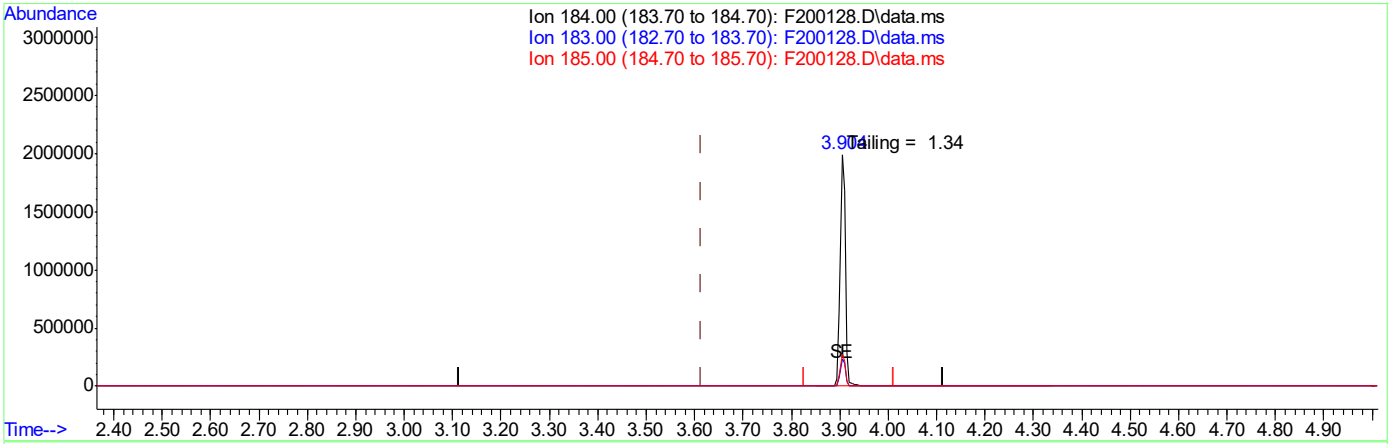
response 369754

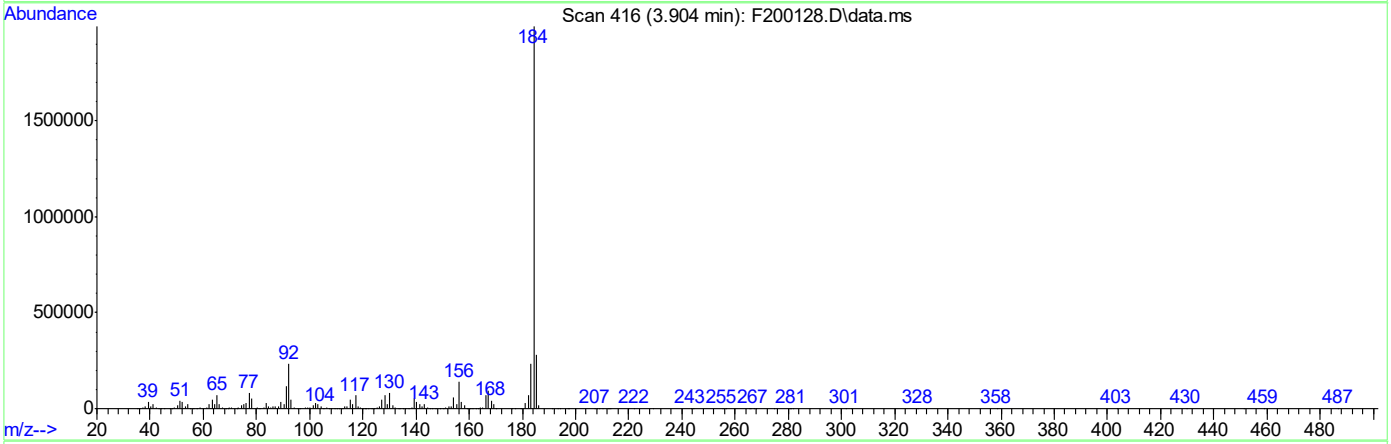
Ion	Exp%	Act%
265.80	100	100
263.80	63.80	62.93
267.80	63.70	62.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200128.D
Acq On : 26 Jun 2021 2:25 am
Operator : chriss2
Sample : dftpp
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 26 02:31:54 2021
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPF.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Apr 17 09:43:02 2020
Response via : Initial Calibration





TIC: F200128.D\data.ms

(2) Benzidine (t)

3.904min (+0.289) 128.96ppb m

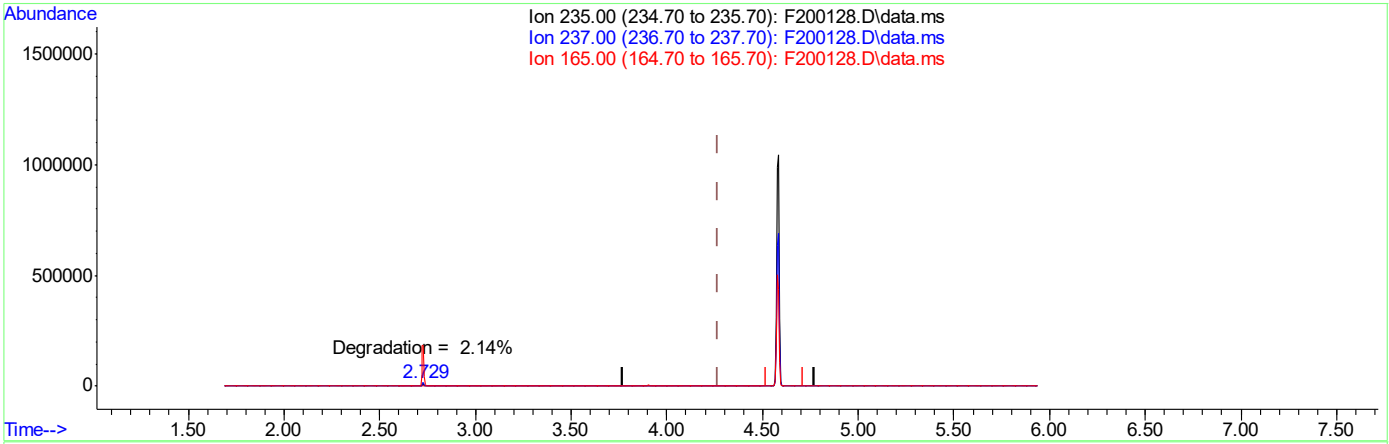
response 1527480

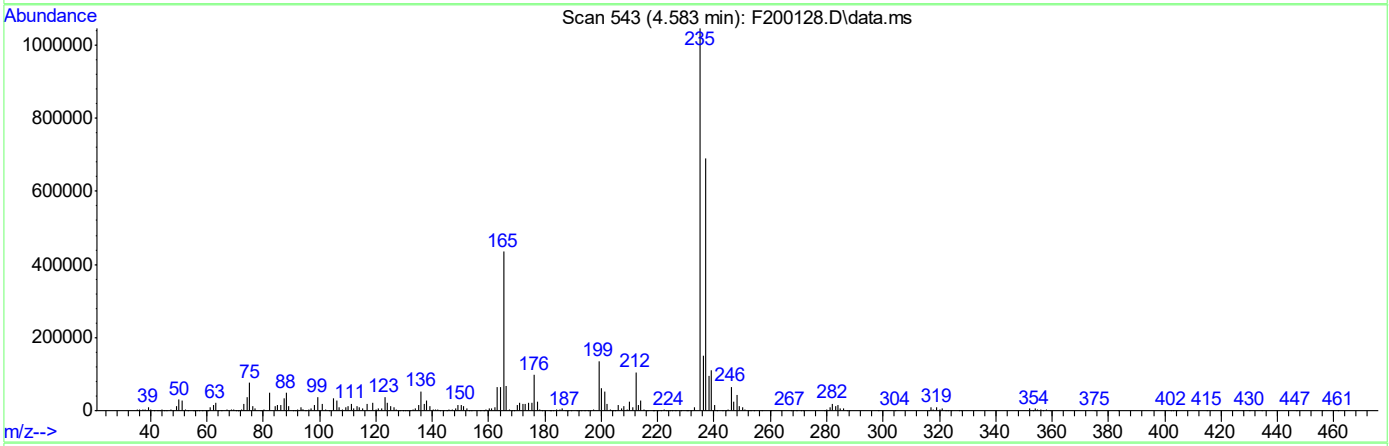
Ion	Exp%	Act%
184.00	100	100
183.00	10.40	0.00
185.00	13.80	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200128.D
Acq On : 26 Jun 2021 2:25 am
Operator : chriss2
Sample : dftpp
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 26 02:31:54 2021
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPF.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Apr 17 09:43:02 2020
Response via : Initial Calibration





TIC: F200128.D\data.ms

(3) ddt (t)

4.583min (+0.310) 100.78ppb m

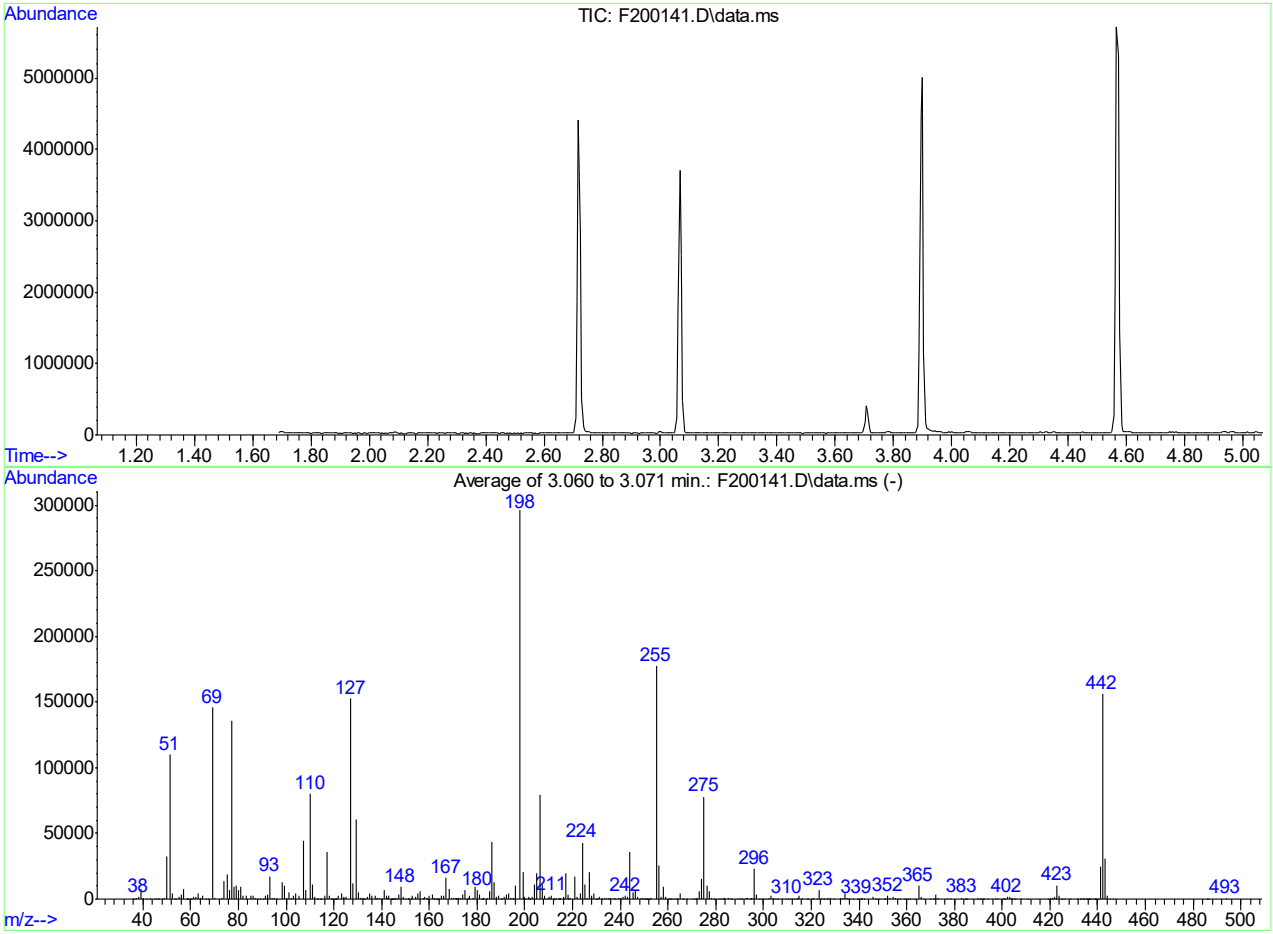
response 871487

Ion	Exp%	Act%
235.00	100	100
237.00	63.70	0.00#
165.00	52.30	0.00#
0.00	0.00	0.00

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF8747\F200141.D Vial: 1
Acq On : 26 Jun 2021 7:50 am Operator: chriss2
Sample : dftpp Inst : GCMSF
Misc : op30563,ef8748,1000,,,1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um



AutoFind: Scans 258, 259, 260; Background Corrected with Scan 250

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.2	109987	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	49.2	145599	PASS
70	69	0.00	2	0.4	601	PASS
127	198	40	60	51.6	152682	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	295893	PASS
199	198	5	9	7.0	20589	PASS
275	198	10	30	26.4	78098	PASS
365	198	1	100	3.3	9893	PASS
441	443	0.10	100	79.4	24447	PASS
442	198	40	100	52.7	155984	PASS
443	442	17	23	19.7	30778	PASS

F200141.D DFTPPF.M Sat Jun 26 09:57:54 2021

Average of 3.060 to 3.071 min.: F200141.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	190	46.90	131	58.20	97	66.20	237
36.40	162	48.00	179	58.50	165	67.40	135
37.15	511	49.10	1119	59.00	28	69.05	145599
38.20	1573	50.15	32309	59.95	131	70.20	601
39.15	8009	51.20	109987	60.20	69	73.15	1238
40.15	836	52.15	4584	61.20	1446	74.10	13835
41.40	261	53.15	356	62.20	1950	75.10	18917
43.00	93	53.80	58	63.15	4668	76.20	6761
45.00	119	55.05	1530	63.95	629	77.15	135709
45.30	302	56.20	3118	64.40	74	78.15	9675
46.00	60	57.15	7551	65.20	2294	79.10	10389

Average of 3.060 to 3.071 min.: F200141.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.10	6774	92.10	3549	104.10	4301	116.30	2481
81.10	9140	93.10	17492	105.15	2787	117.10	36091
82.10	2599	94.10	1099	107.05	44179	118.15	2805
83.15	2986	95.15	492	108.15	6528	118.80	178
85.15	2386	96.10	448	110.10	80136	119.10	178
86.10	2209	98.10	13124	111.05	10829	119.70	86
87.10	1280	99.10	10447	112.10	1515	120.10	224
88.10	376	100.15	834	113.00	339	120.30	97
89.10	167	101.10	4831	113.30	68	120.90	141
90.40	98	102.05	547	114.40	117	121.05	158
91.10	2460	103.15	2679	114.90	66	122.05	2817

Average of 3.060 to 3.071 min.: F200141.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
123.10	4094	132.60	103	142.05	2782	148.05	9046
124.00	855	133.15	360	142.60	504	149.10	1949
124.20	1431	134.10	1894	143.05	2555	150.05	407
125.20	1994	135.05	4270	144.00	219	151.00	200
127.10	152682	136.10	2528	144.30	221	151.25	1020
128.05	11773	137.15	2464	144.50	68	152.25	455
129.10	60530	138.00	356	145.00	323	153.05	2417
130.10	4958	138.30	476	145.20	422	154.15	1663
131.00	433	139.00	515	145.95	1018	155.15	3969
131.35	471	140.05	390	146.30	445	156.10	6173
132.00	515	141.05	6975	147.05	3708	157.30	1194

Average of 3.060 to 3.071 min.: F200141.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
158.05	1657	165.15	2365	173.05	1283	182.30	359
158.90	256	166.20	2788	174.10	3527	182.50	188
159.05	925	167.10	16043	175.10	6620	183.05	500
160.05	2407	168.15	7976	176.10	322	184.10	1151
161.10	3160	169.10	812	176.25	1261	185.10	5718
161.85	401	170.10	472	177.00	2922	186.10	43296
162.10	549	170.90	265	178.15	750	187.10	12683
162.70	57	171.05	783	179.10	9712	188.05	1797
163.00	443	171.30	225	180.10	7144	189.15	2560
163.70	236	172.00	816	181.15	3738	189.95	129
164.20	271	172.20	488	182.00	433	190.20	429

Average of 3.060 to 3.071 min.: F200141.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
191.15	1644	201.00	91	210.10	1344	216.00	280
192.05	3298	201.45	1410	210.70	920	216.15	1532
193.10	4165	201.70	916	211.20	2904	217.10	20058
194.15	799	202.00	125	212.00	170	218.10	3068

195.00	318	203.10	2144	212.20	274	218.30	256
195.20	475	204.10	10885	212.70	188	219.10	500
196.10	10430	205.15	20021	213.00	158	221.15	17431
198.10	295893	206.15	79672	213.90	56	221.95	2064
199.10	20589	207.10	11228	214.30	61	223.15	4686
200.00	1518	208.10	2781	214.60	116	224.15	42872
200.40	223	209.30	148	215.00	483	225.15	11310

Average of 3.060 to 3.071 min.: F200141.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
226.10	505	234.10	1252	244.10	36125	251.50	121
227.10	20931	235.10	1186	245.15	4883	252.00	186
228.05	2524	235.70	163	246.10	6820	252.35	396
229.10	4403	236.10	1001	247.10	1485	253.05	928
229.90	366	237.15	1131	248.15	344	255.10	177192
230.10	245	238.00	279	249.00	989	256.10	25898
230.40	163	239.10	970	249.80	72	257.10	2166
231.15	1392	240.05	644	250.10	84	258.05	9778
232.10	128	241.15	1501	250.50	144	259.15	2041
232.40	106	242.10	2199	250.80	99	260.15	171
233.00	394	243.15	1936	251.00	178	261.05	408

Average of 3.060 to 3.071 min.: F200141.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
261.50	134	271.80	169	283.00	165	293.20	483
262.20	86	272.05	639	283.20	532	294.05	259
263.25	261	273.10	6417	284.05	519	294.45	325
263.60	106	274.10	15158	285.15	1090	295.15	846
264.25	270	275.10	78098	286.20	236	296.10	22778
265.10	4042	276.15	9959	286.80	61	297.05	3072
265.85	367	277.05	6313	289.10	276	298.05	337
266.30	192	278.15	1265	290.00	322	298.70	76
268.10	57	279.05	370	290.20	65	299.90	145
270.15	458	281.15	318	291.00	161	300.95	147
271.05	399	281.85	267	293.00	678	302.20	549

Average of 3.060 to 3.071 min.: F200141.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
303.15	2952	314.00	459	325.10	75	335.90	115
304.00	469	314.20	478	325.30	66	337.20	58
304.20	382	315.05	2822	326.60	256	339.10	247
305.15	329	316.10	1253	327.00	1121	339.80	103
306.10	64	318.10	151	328.15	895	340.80	52
307.95	176	318.50	61	329.50	130	341.00	535
309.05	335	320.40	193	332.00	568	341.30	201
310.00	351	321.05	533	333.10	730	342.15	295
311.00	67	322.30	303	334.15	4166	346.05	1455
312.00	65	323.10	6909	335.10	1258	346.90	74
313.00	377	324.15	1112	335.40	179	347.10	100

Average of 3.060 to 3.071 min.: F200141.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
348.20	100	360.50	114	377.00	78	392.20	251
350.70	61	361.20	223	378.10	118	393.90	50
350.90	121	363.20	50	383.15	1093	397.10	53
352.10	2178	365.10	9893	384.15	277	397.80	87
352.95	1134	366.05	1582	384.90	75	400.20	88
354.15	1930	366.90	144	385.10	99	400.75	272
355.15	634	369.90	239	389.50	76	401.10	140
356.00	69	371.00	308	390.20	393	402.15	1646
357.05	163	371.20	198	390.80	76	403.10	1410
359.20	75	372.10	3204	391.00	166	404.00	556
359.50	133	373.10	713	391.90	74	404.30	460

Average of 3.060 to 3.071 min.: F200141.D\data.ms

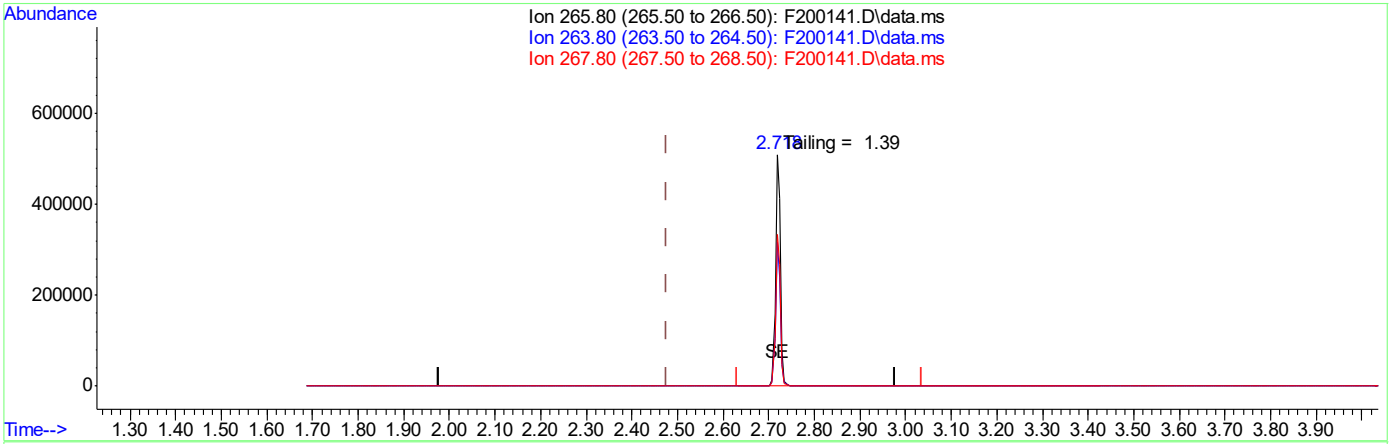
dftpp
Modified:subtracted

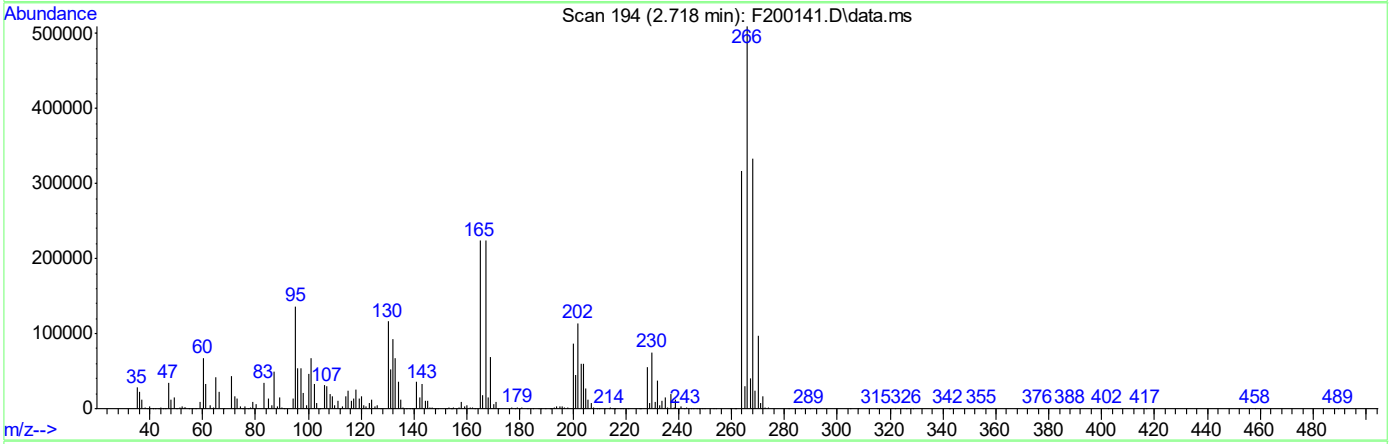
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
405.00	64	423.10	10515	434.20	73	440.10	250
405.60	130	424.05	2453	435.10	74	441.10	24447
407.70	133	424.90	109	435.50	169	442.10	155984
410.50	62	425.20	288	435.80	67	443.10	30778
419.00	74	426.35	146	436.30	87	444.15	2764
419.90	79	428.50	74	436.60	141	445.10	91
420.10	127	431.40	61	437.20	244	446.40	65
420.90	183	432.70	67	437.70	332	485.60	57
421.10	1308	432.90	64	438.70	252	486.50	51
422.10	1410	433.60	79	438.90	262	493.60	59
422.40	171	434.00	300	439.55	433		

Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200141.D
Acq On : 26 Jun 2021 7:50 am
Operator : chriss2
Sample : dftpp
Misc : op30563,ef8748,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 26 07:56:05 2021
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPF.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Apr 17 09:43:02 2020
Response via : Initial Calibration





TIC: F200141.D\data.ms

(1) Pentachlorophenol (t)

2.718min (+0.241) 309.14ppb m

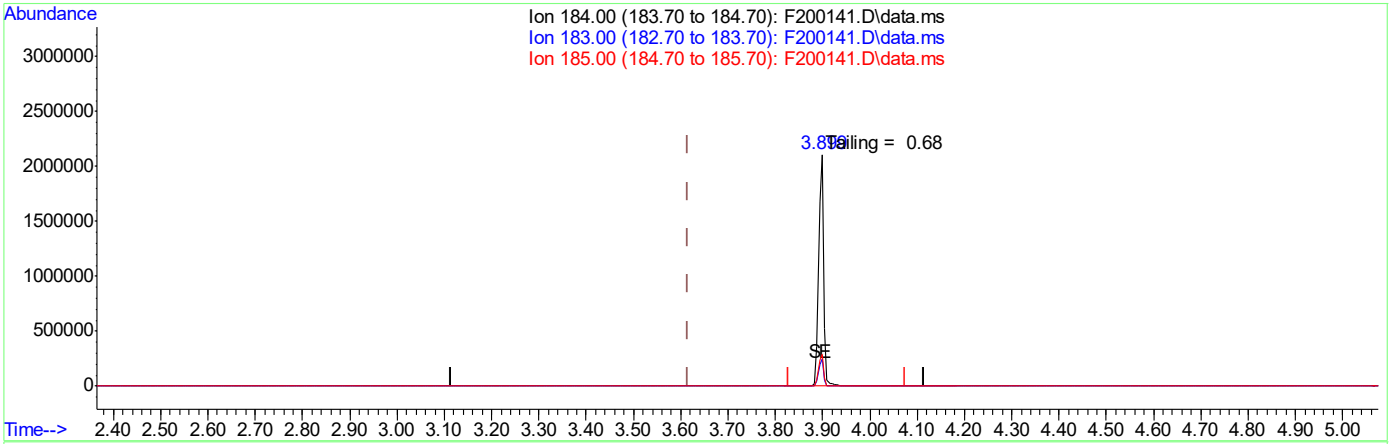
response 387505

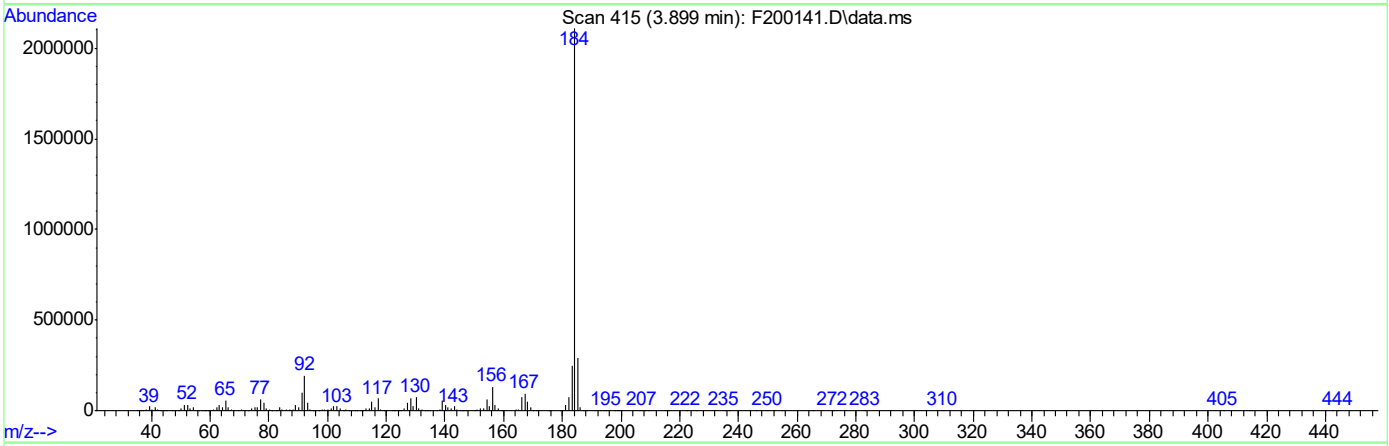
Ion	Exp%	Act%
265.80	100	100
263.80	63.80	62.20
267.80	63.70	65.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200141.D
Acq On : 26 Jun 2021 7:50 am
Operator : chriss2
Sample : dftpp
Misc : op30563,ef8748,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 26 07:56:05 2021
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPF.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Apr 17 09:43:02 2020
Response via : Initial Calibration





TIC: F200141.D\data.ms

(2) Benzidine (t)

3.899min (+0.284) 132.31ppb m

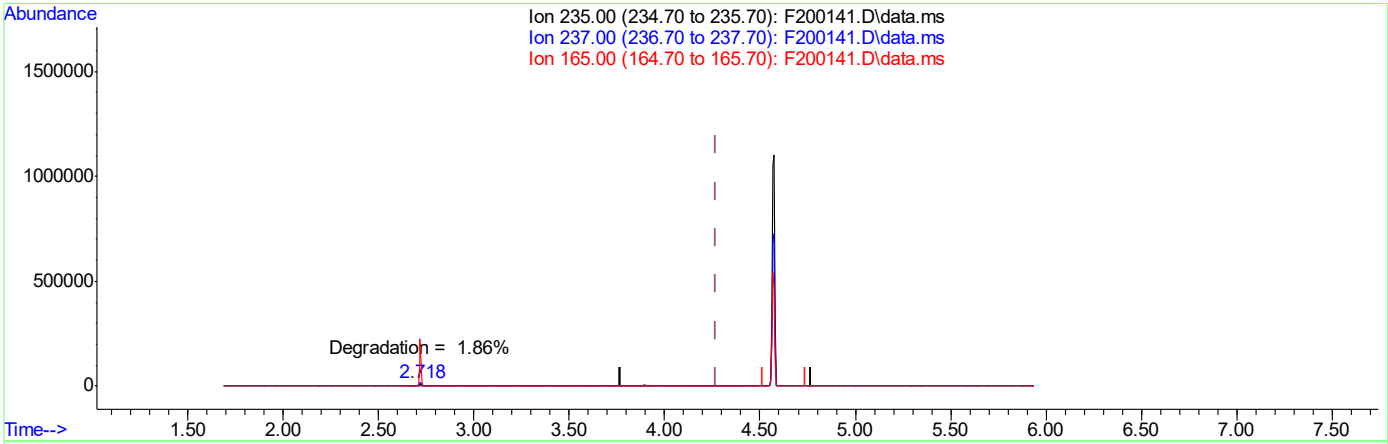
response 1567099

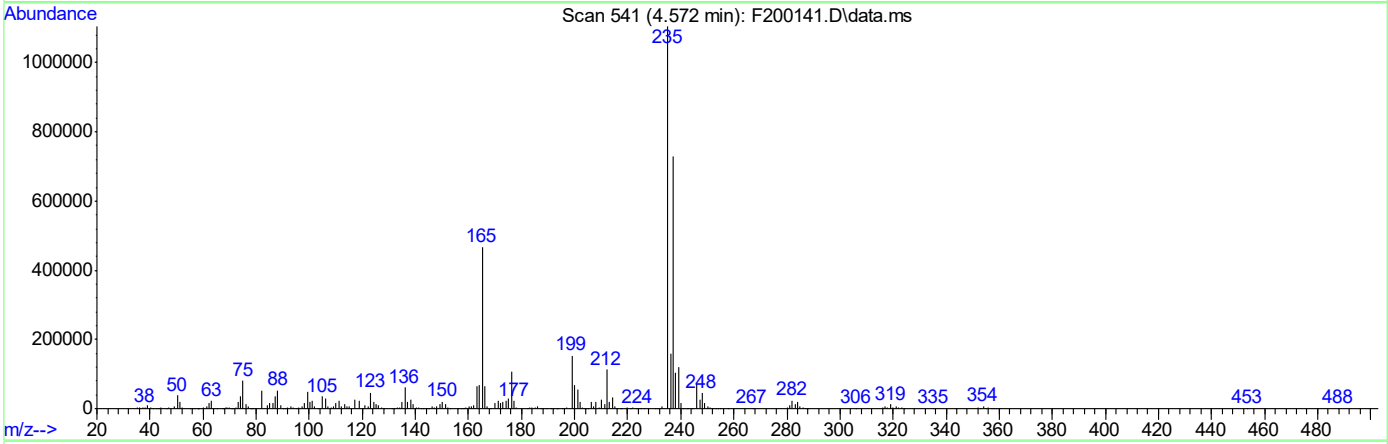
Ion	Exp%	Act%
184.00	100	100
183.00	10.40	0.00
185.00	13.80	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200141.D
Acq On : 26 Jun 2021 7:50 am
Operator : chriss2
Sample : dftpp
Misc : op30563,ef8748,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 26 07:56:05 2021
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPF.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Apr 17 09:43:02 2020
Response via : Initial Calibration





TIC: F200141.D\data.ms

(3) ddt (t)

4.572min (+0.300) 106.26ppb m

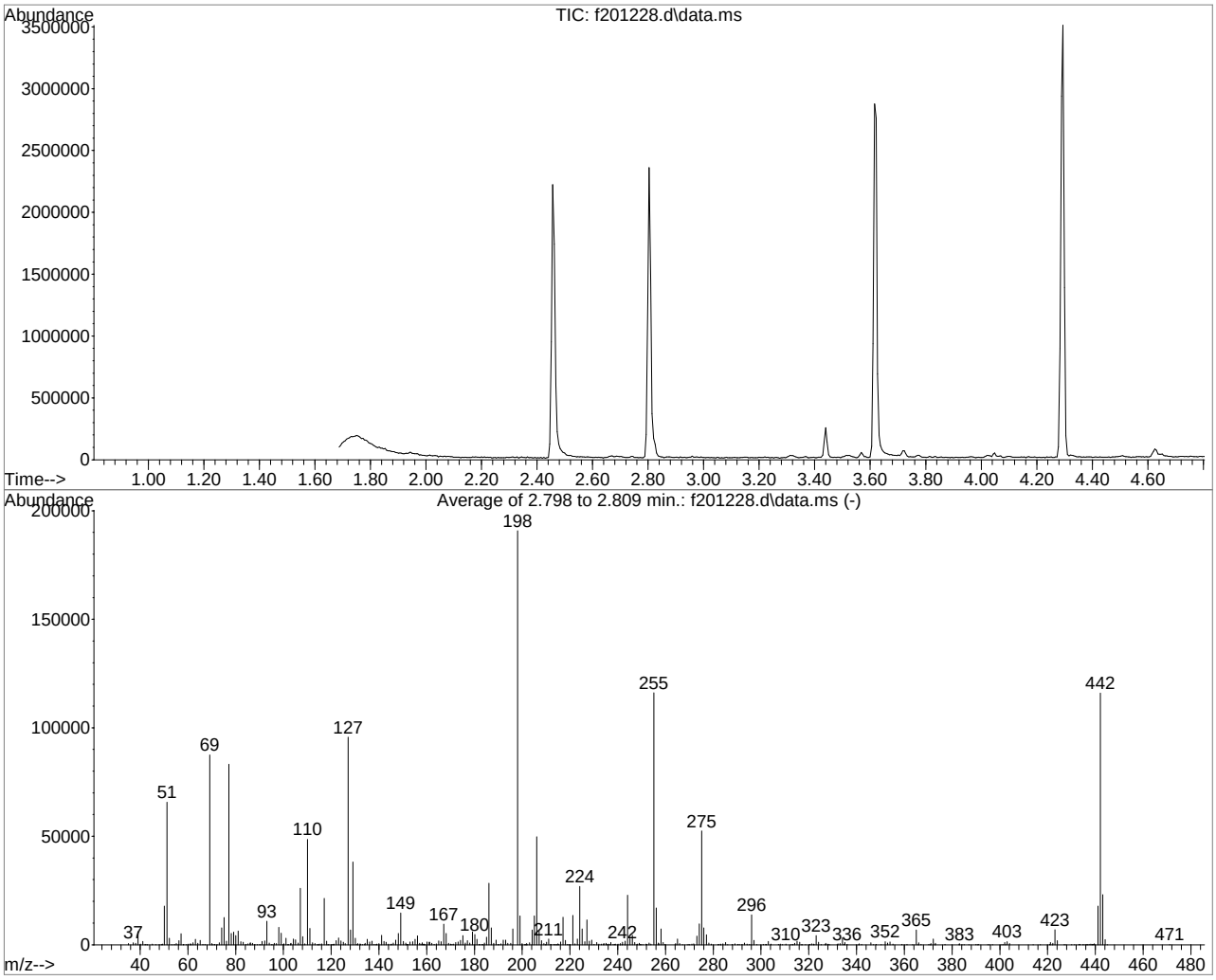
response 918838

Ion	Exp%	Act%
235.00	100	100
237.00	63.70	0.00#
165.00	52.30	0.00#
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\jo...1921\ef8807\f201228.d Vial: 1
Acq On : 18 Aug 2021 3:15 pm Operator: kristis
Sample : dftpp Inst : GCMSF
Misc : op34584,ef8807,1000,,,1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um



AutoFind: Scans 209, 210, 211; Background Corrected with Scan 204

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	34.4	65656	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.9	87458	PASS
70	69	0.00	2	0.6	506	PASS
127	198	40	60	50.1	95647	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	190741	PASS
199	198	5	9	7.0	13268	PASS
275	198	10	30	27.5	52435	PASS
365	198	1	100	3.5	6753	PASS
441	443	0.10	100	77.4	17872	PASS
442	198	40	100	60.8	115992	PASS
443	442	17	23	19.9	23077	PASS

f201228.d DFTPPF.M Thu Aug 19 00:16:16 2021

Average of 2.798 to 2.809 min.: f201228.d\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.15	523	46.60	51	56.20	1865	65.10	2082
37.10	870	48.00	59	57.10	5063	66.30	191
38.15	690	48.95	227	58.10	197	67.20	168
39.10	6032	49.30	372	58.30	92	69.10	87458
40.10	315	50.15	17859	59.40	115	70.05	506
41.10	1490	51.20	65656	60.10	358	70.30	102
42.00	70	52.20	3068	61.00	441	71.00	61
42.30	129	53.20	50	61.20	319	71.30	174
42.90	68	54.30	158	62.15	935	72.30	117
43.10	103	55.15	586	63.10	2552	73.15	963
45.15	290	56.00	217	64.10	631	74.15	7793

Average of 2.798 to 2.809 min.: f201228.d\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
75.10	12530	86.00	694	94.05	792	102.10	177
76.20	1672	86.15	912	95.00	92	103.00	386
77.15	83224	87.05	734	95.30	71	103.20	684
78.20	5204	87.90	111	96.15	689	104.15	2586
79.15	5786	88.10	115	97.05	546	105.10	2237
80.05	4242	89.10	125	98.10	8073	106.15	761
81.10	6366	90.10	69	99.10	5336	107.10	26041
82.20	1444	90.40	60	100.00	156	108.10	3736
83.15	1170	91.05	1502	100.20	392	109.00	418
84.40	128	92.20	1808	101.05	3020	110.10	48507
85.15	494	93.05	10839	101.90	100	111.10	7483

Average of 2.798 to 2.809 min.: f201228.d\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
112.15	982	120.25	40	129.10	38080	137.10	1650
113.15	596	120.65	224	130.10	3005	138.00	179
114.20	107	121.00	85	130.90	234	138.80	108
114.50	95	121.20	275	131.05	502	139.10	292
114.80	113	122.05	1930	132.05	420	140.00	500
115.05	269	123.10	3086	132.30	172	141.10	4312
116.00	461	124.10	1733	133.10	33	142.10	1546
117.10	21386	125.15	1177	134.00	183	142.95	1121
118.10	1674	125.90	545	134.20	661	144.05	273
118.70	64	127.10	95647	135.10	2574	145.00	247
118.95	178	128.10	6823	136.15	1292	145.25	260

Average of 2.798 to 2.809 min.: f201228.d\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
146.05	852	155.15	2541	161.20	1166	171.15	327
147.05	2092	156.15	4159	162.10	651	172.10	1026
148.10	5231	157.05	685	163.10	156	173.15	1318
149.10	14684	157.60	359	164.05	408	174.15	2033
150.20	1486	158.15	891	165.05	1743	175.10	4219
151.25	767	158.50	157	166.05	1440	176.10	835
151.50	120	158.75	340	167.15	9432	177.05	1898
151.80	150	159.00	173	168.10	5180	178.05	817
152.20	233	159.20	123	169.15	629	179.10	5977
153.05	1277	160.10	1291	170.05	260	180.10	4731
154.15	1441	161.00	1133	170.60	128	181.10	2534

Average of 2.798 to 2.809 min.: f201228.d\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
182.00	160	190.15	237	201.30	212	209.60	107
182.15	239	191.00	421	201.60	141	209.80	87
183.20	200	192.05	2189	201.85	576	210.20	1173
183.50	91	193.05	2105	202.10	121	211.10	2643
184.15	761	194.00	624	203.05	948	211.90	128
185.10	3559	195.15	629	204.15	6820	212.20	192
186.10	28395	196.10	7284	205.10	13350	213.15	170
187.10	7765	198.10	190741	206.10	49771	213.80	67
188.05	649	199.10	13268	207.10	6266	214.20	90
189.05	2098	199.95	566	208.10	1904	214.50	74
189.80	73	200.90	104	209.05	593	215.00	404

Average of 2.798 to 2.809 min.: f201228.d\data.ms

MF8747.M Wed Aug 18 06:03:38 2021

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
215.20	189	225.10	7241	235.05	725	241.90	190
216.10	1263	226.15	1391	235.60	77	242.05	1129
217.10	12623	227.10	11489	236.05	371	243.00	493
218.10	1984	228.15	1674	236.60	144	243.15	1641
219.00	196	229.10	2185	237.15	1098	244.10	22794
219.50	81	230.10	151	238.05	170	245.10	2721
220.10	83	231.20	1046	238.80	158	246.10	4367
221.15	13473	232.05	290	239.05	365	247.10	1033
222.10	387	233.15	331	240.15	340	248.00	93
223.10	2622	234.00	333	241.00	105	248.25	257
224.10	26885	234.25	500	241.15	514	249.00	713

Average of 2.798 to 2.809 min.: f201228.d\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
249.50	166	258.10	7244	271.05	261	283.00	266
249.80	73	259.05	1064	271.85	427	283.20	91
250.40	80	259.85	176	273.15	3930	284.05	413
251.90	288	264.00	75	274.10	9632	285.15	1039
252.20	153	264.20	505	275.10	52435	286.10	120
253.10	791	265.05	2677	276.05	7726	287.95	186
253.90	276	265.95	530	277.10	4556	289.05	384
255.10	116163	267.10	71	278.10	763	290.25	176
256.10	16946	269.10	109	279.15	279	290.90	174
257.00	821	269.80	164	281.90	93	292.05	215
257.20	409	270.10	100	282.25	174	293.05	771

Average of 2.798 to 2.809 min.: f201228.d\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
294.15	354	308.05	268	318.60	59	328.20	226
295.20	198	309.00	102	320.40	196	328.70	67
296.10	13734	310.40	258	321.15	474	331.90	72
297.05	2005	312.60	75	321.95	305	332.15	404
298.30	61	313.15	163	322.20	154	333.05	560
300.95	229	313.40	65	323.10	4253	334.05	3126
301.95	174	314.05	656	324.10	1150	334.80	145
302.20	250	315.10	1669	325.20	62	335.15	984
303.10	1558	316.15	1197	326.90	249	336.10	148
304.15	352	317.00	104	327.10	702	340.90	96
307.30	144	317.30	104	327.90	311	341.15	448

Average of 2.798 to 2.809 min.: f201228.d\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
342.10	223	363.50	77	377.00	146	396.90	72
346.05	915	365.00	6753	382.95	308	400.80	71
347.10	99	365.80	77	383.20	432	401.50	110
348.20	230	366.00	926	384.20	82	402.05	986
350.30	95	367.00	149	385.00	91	402.40	116
352.05	1407	370.20	199	387.00	73	403.05	1409
353.00	753	370.80	127	390.05	253	404.05	519
354.05	1298	371.10	594	390.70	90	414.00	56
355.20	323	372.10	2693	391.20	183	417.00	76
359.00	189	372.90	103	394.90	96	420.90	155
361.15	171	373.05	639	395.60	69	421.20	1045

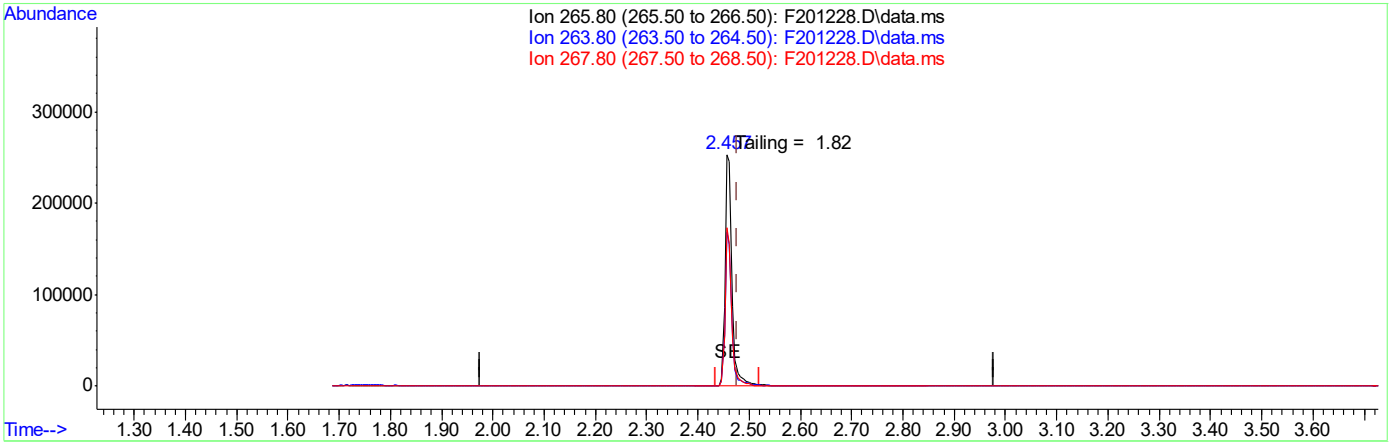
Average of 2.798 to 2.809 min.: f201228.d\data.ms
dftpp
Modified:subtracted

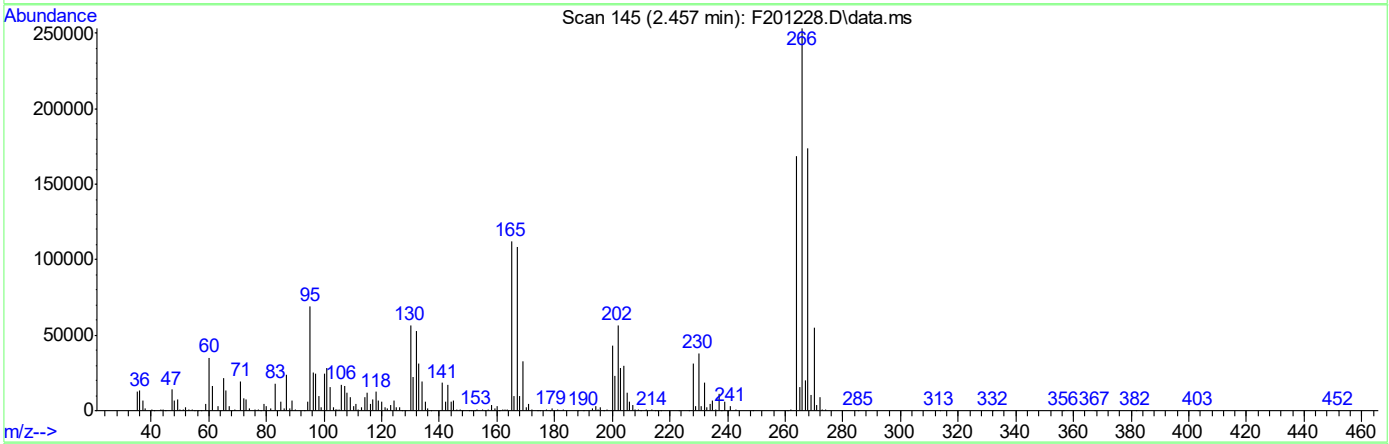
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
422.00	124	435.30	68	441.10	17872		
422.15	732	436.10	107	442.10	115992		
423.10	6932	436.40	78	443.10	23077		
424.10	1873	436.80	104	444.10	2417		
427.00	84	437.00	121	445.00	76		
427.40	57	437.70	149	471.10	52		
430.10	57	438.10	287				
431.30	110	438.55	199				
433.10	143	438.80	185				
433.60	146	439.10	206				
434.80	74	439.50	465				

Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\EF8807\
Data File : F201228.D
Acq On : 18 Aug 2021 3:15 pm
Operator : kristis
Sample : dftpp
Misc : op34584,ef8807,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 18 15:21:06 2021
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPF.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Apr 17 09:43:02 2020
Response via : Initial Calibration





TIC: F201228.D\data.ms

(1) Pentachlorophenol (t)

2.457min (-0.021) 193.96ppb

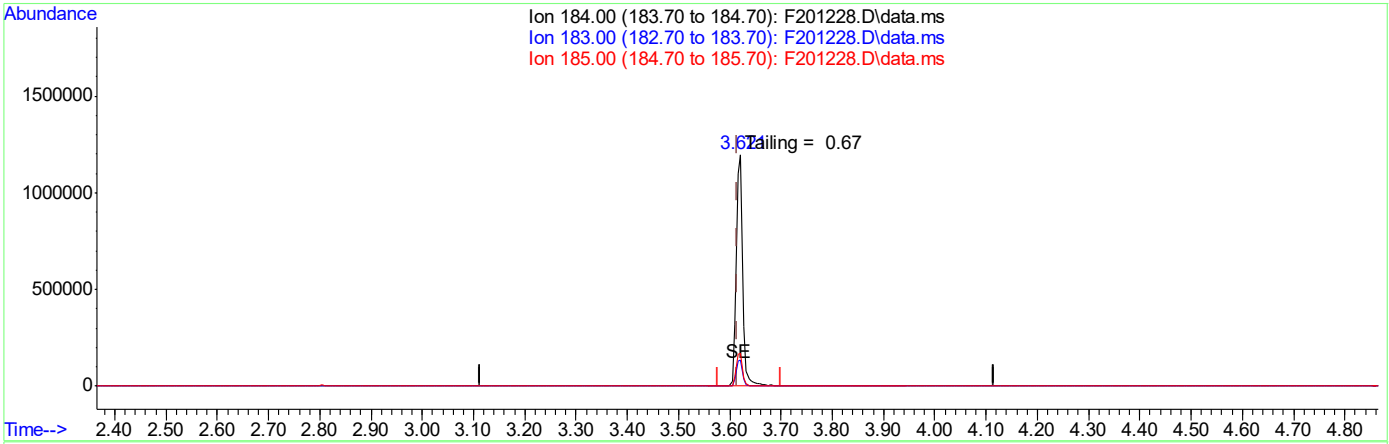
response 243137

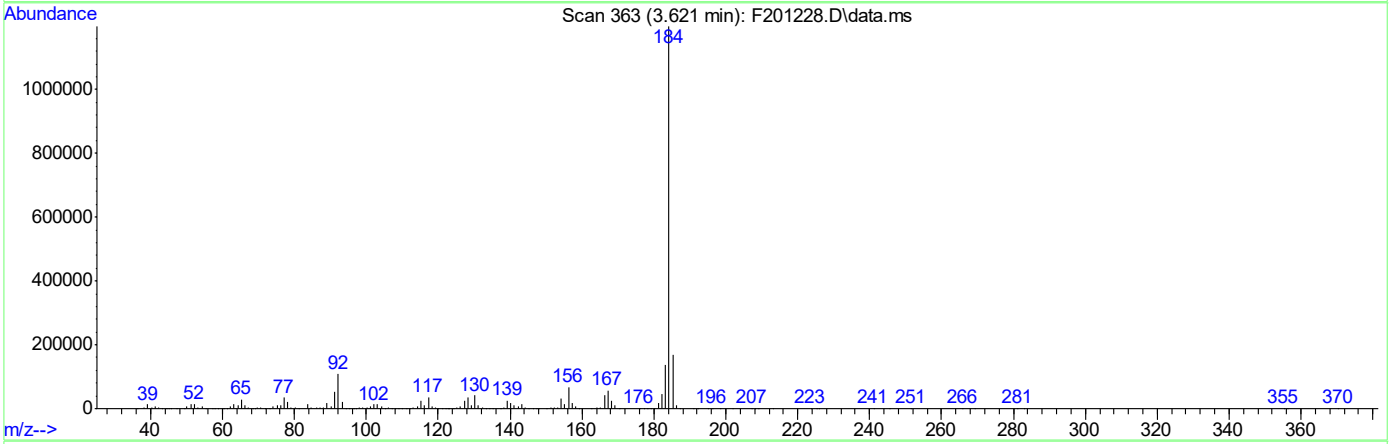
Ion	Exp%	Act%
265.80	100	100
263.80	63.80	66.65
267.80	63.70	68.60
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\EF8807\
Data File : F201228.D
Acq On : 18 Aug 2021 3:15 pm
Operator : kristis
Sample : dftpp
Misc : op34584,ef8807,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 18 15:21:06 2021
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPF.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Apr 17 09:43:02 2020
Response via : Initial Calibration





TIC: F201228.D\data.ms

(2) Benzidine (t)

3.621min (+0.006) 85.98ppb

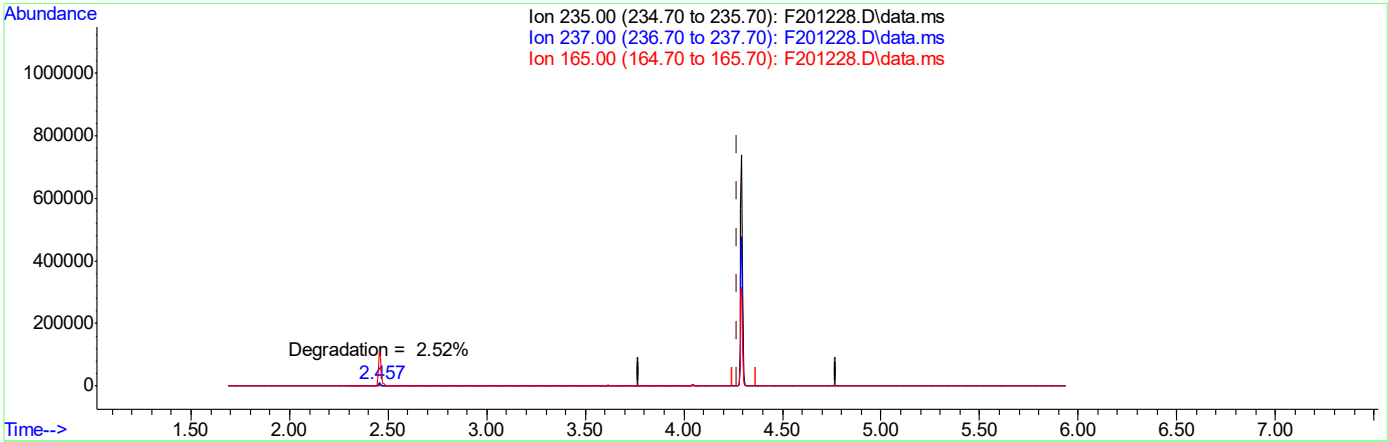
response 1018381

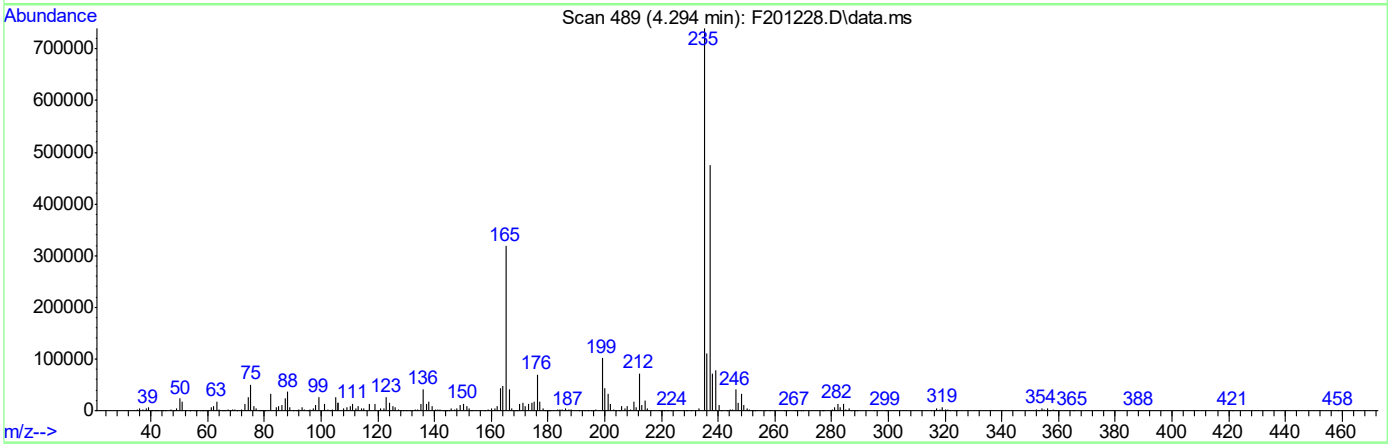
Ion	Exp%	Act%
184.00	100	100
183.00	10.40	11.59
185.00	13.80	14.51
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\EF8807\
Data File : F201228.D
Acq On : 18 Aug 2021 3:15 pm
Operator : kristis
Sample : dftpp
Misc : op34584,ef8807,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 18 15:21:06 2021
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPF.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Apr 17 09:43:02 2020
Response via : Initial Calibration





TIC: F201228.D\data.ms

(3) ddt (t)

4.294min (+0.022) 67.07ppb

response 579987

Ion	Exp%	Act%
235.00	100	100
237.00	63.70	64.20
165.00	52.30	44.98
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/28/21 09:44

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200129.D
Acq On : 26 Jun 2021 2:42 am
Operator : chriss2
Sample : ic8747-1
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 08:55:07 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	477239	40.00	ppm	0.00
24) Naphthalene-d8	5.570	136	1841714	40.00	ppm	0.00
46) Acenaphthene-d10	6.975	164	1021459	40.00	ppm	0.00
69) Phenanthrene-d10	8.856	188	1845443	40.00	ppm	0.00
83) Chrysene-d12	14.134	240	1634204	40.00	ppm	0.00
92) Perylene-d12	17.184	264	1572275	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.646	152	477239	40.00	ppm	0.00
112) Naphthalene-d8A	5.570	136	1841714	40.00	ppm	0.00
121) Acenaphthene-d10A	6.975	164	1021459	40.00	ppm	0.00
132) Phenanthrene-d10A	8.856	188	1845443	40.00	ppm	0.00
147) Chrysene-d12A	14.134	240	1634204	40.00	ppm	0.00
154) Perylene-d12A	17.184	264	1572275	40.00	ppm	0.00
157) 1,4-Dichlorobenzene-d4b	4.646	152	477239	40.00	ppm	0.00
159) Phenanthrene-d10b	8.856	188	1845443	40.00	ppm	0.00
161) Naphthalene-d8b	5.570	136	1841714	40.00	ppm	0.00
163) Naphthalene-d8c	5.570	136	1841714	40.00	ppm	0.00
168) 1,4-Dichlorobenzene-d4c	4.646	152	477239	40.00	ppm	0.00
170) Chrysene-d12c	14.134	240	1634204	40.00	ppm	0.00
172) Chrysene-d12d	14.134	240	1634204	40.00	ppm	0.00
174) Naphthalene-d8d	5.570	136	1841714	40.00	ppm	0.00
176) Chrysene-d12e	14.134	240	1634204	40.00	ppm	0.00
178) Perylene-d12b	17.184	264	1572275	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.647	112	13744	0.90	ppm	0.00
Spiked Amount 50.000			Recovery = 1.80%			
8) Phenol-d5	4.363	99	18789	0.94	ppm	0.00
Spiked Amount 50.000			Recovery = 1.88%			
25) Nitrobenzene-d5	5.047	82	15550	0.83	ppm	0.00
Spiked Amount 50.000			Recovery = 1.66%			
51) 2-Fluorobiphenyl	6.366	172	32642	0.92	ppm	0.00
Spiked Amount 50.000			Recovery = 1.84%			
73) 2,4,6-Tribromophenol	7.862	330	3392	0.62	ppm	0.00
Spiked Amount 50.000			Recovery = 1.24%			
86) Terphenyl-d14	11.927	244	34640	0.87	ppm	0.00
Spiked Amount 50.000			Recovery = 1.74%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.183	88	6583m	1.04	ppm	
3) Pyridine	2.514	79	15925	0.92	ppm	89
4) N-Nitrosodimethylamine	2.472	42	8893	1.02	ppm	96
6) Indene	4.833	116	25355	0.93	ppm	98
7) Cumene	4.053	105	37090	0.91	ppm	93
9) Phenol	4.373	94	18668	0.91	ppm	92
10) Aniline	4.400	93	22861	0.90	ppm	65
11) bis(2-Chloroethyl)ether	4.448	93	14971	1.02	ppm	96
12) 2-Chlorophenol	4.486	128	15187	0.95	ppm	92
13) Decane	4.528	43	13383	0.99	ppm	94
14) 1,3-Dichlorobenzene	4.603	146	18612	1.01	ppm	85

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200129.D
Acq On : 26 Jun 2021 2:42 am
Operator : chriss2
Sample : ic8747-1
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 08:55:07 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
15) 1,4-Dichlorobenzene	4.657	146	18431	0.99	ppm		90
16) Benzyl alcohol	4.742	108	9207	0.87	ppm	#	80
17) 1,2-Dichlorobenzene	4.769	146	15946	0.92	ppm		99
18) Acetophenone	4.934	105	22007	0.90	ppm		87
19) 2-Methylphenol	4.822	108	13470	0.80	ppm		97
20) 2,2'-oxybis(1-Chloropr...	4.844	121	4000	0.95	ppm		97
21) 3&4-Methylphenol	4.929	108	29094	1.74	ppm		92
22) n-Nitroso-di-n-propyla...	4.934	70	9589	0.79	ppm	#	80
23) Hexachloroethane	5.020	201	6492	0.95	ppm		93
26) Nitrobenzene	5.057	77	17051	0.90	ppm		95
27) Quinoline	5.821	129	27448	0.91	ppm		94
28) Isophorone	5.234	82	28947	0.86	ppm		96
29) 2-Nitrophenol	5.292	139	8011	0.91	ppm		90
30) 2,4-Dimethylphenol	5.314	107	15500	0.86	ppm		87
31) Benzoic acid	5.330	105	6267	0.49	ppm		89
32) bis(2-Chloroethoxy)met...	5.388	93	17077	0.91	ppm		95
33) 2,4-Dichlorophenol	5.458	162	12338	0.92	ppm		98
34) 2,6-Dichlorophenol	5.623	162	11002	0.80	ppm		99
35) 1,3,5-Trichlorobenzene	5.298	180	15412	0.96	ppm		82
36) 1,2,4-Trichlorobenzene	5.527	180	15516	1.02	ppm		88
37) 1,2,3-Trichlorobenzene	5.688	180	12854	0.90	ppm		90
38) Naphthalene	5.586	128	44907	0.92	ppm		98
39) 4-Chloroaniline	5.618	127	17552	0.89	ppm		97
40) 2,3-Dichloroaniline	6.297	161	14326	0.84	ppm		91
41) Hydroquinone	5.832	110	10531	0.71	ppm		93
42) Hexachlorobutadiene	5.672	225	9325	0.98	ppm		88
43) 4-Chloro-3-methylphenol	5.955	107	12856	0.87	ppm		97
44) 2-Methylnaphthalene	6.083	141	25141	0.91	ppm		96
45) 1-Methylnaphthalene	6.158	142	27332	0.93	ppm		96
47) Hexachlorocyclopentadiene	6.200	237	16934	1.76	ppm		92
48) 1,2,4,5-tetrachloroben...	6.211	216	14405	0.91	ppm		98
49) 2,4,6-Trichlorophenol	6.297	196	9098	0.84	ppm		99
50) 2,4,5-Trichlorophenol	6.318	196	9349	0.85	ppm		87
52) 2-Chloronaphthalene	6.468	162	27179	0.91	ppm		92
53) Biphenyl	6.452	154	36415	0.93	ppm		96
54) 2-Nitroaniline	6.548	65	7769	0.78	ppm		93
55) Dimethylphthalate	6.708	163	29089	0.85	ppm		99
56) Acenaphthylene	6.842	152	31605	0.87	ppm		99
57) 2,6-Dinitrotoluene	6.767	165	4735	0.64	ppm		90
58) 3-Nitroaniline	6.922	138	5991	0.76	ppm		90
59) Acenaphthene	7.007	153	27464	0.91	ppm		95
60) 2,4-Dinitrophenol	7.023	184	4759	0.84	ppm		62
61) 4-Nitrophenol	7.071	109	3802	0.62	ppm	#	77
62) Dibenzofuran	7.183	168	39467	0.95	ppm		92
63) 2,4-Dinitrotoluene	7.162	165	7893	0.77	ppm		93
64) 2,3,4,6-Tetrachlorophenol	7.312	232	6647	0.73	ppm		90
65) Diethylphthalate	7.440	149	29965	0.87	ppm		96
66) Fluorene	7.568	166	29124	0.85	ppm		98
67) 4-Chlorophenyl-phenyle...	7.573	204	15111	0.88	ppm		93
68) 4-Nitroaniline	7.573	138	4875	0.59	ppm		95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200129.D
Acq On : 26 Jun 2021 2:42 am
Operator : chriss2
Sample : ic8747-1
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 08:55:07 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration

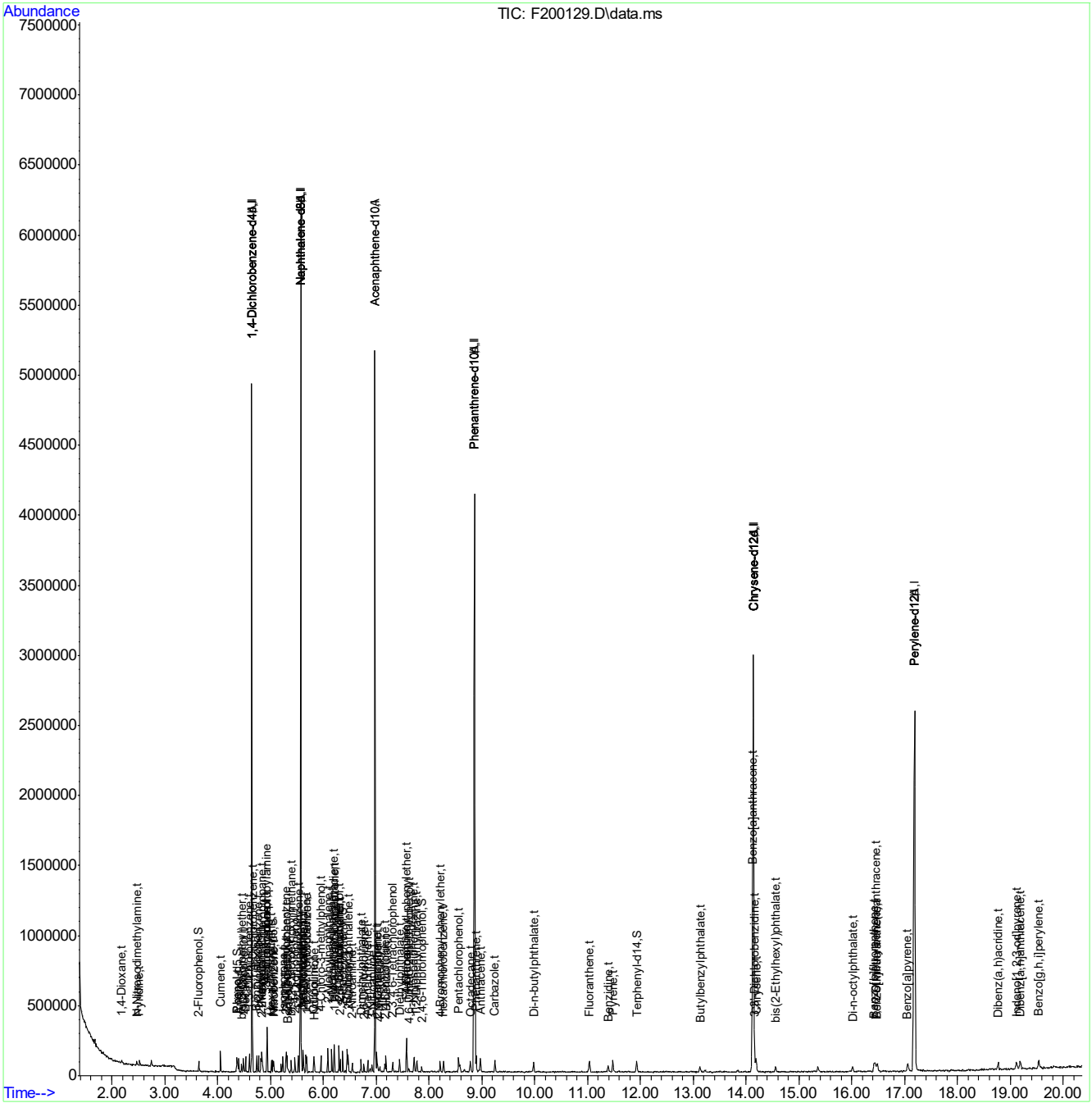
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4,6-Dinitro-2-methylph...	7.621	198	3728	0.57	ppm		84
71) n-Nitrosodiphenylamine	7.712	169	27165	0.90	ppm		92
72) 1,2-Diphenylhydrazine	7.766	77	31920	0.84	ppm		96
74) 4-Bromophenyl-phenylether	8.209	248	8656	0.85	ppm		81
75) Hexachlorobenzene	8.273	284	10197	0.92	ppm		87
76) Pentachlorophenol	8.562	266	12912	1.62	ppm		96
77) Phenanthrene	8.893	178	50218	1.02	ppm		95
78) Anthracene	8.973	178	41793	0.83	ppm		88
79) Carbazole	9.246	167	36648	0.82	ppm		92
80) Di-n-butylphthalate	9.977	149	43839	0.76	ppm		99
81) Fluoranthene	11.030	202	44304	0.82	ppm		88
82) Octadecane	8.781	57	15678	0.84	ppm		88
84) Benzidine	11.388	184	22407	0.80	ppm	#	86
85) Pyrene	11.479	202	49703	0.92	ppm		97
87) Butylbenzylphthalate	13.124	149	14624	0.62	ppm		80
88) Benzo[a]anthracene	14.118	228	47615	0.97	ppm		88
89) 3,3'-Dichlorobenzidine	14.166	252	13505	0.72	ppm	#	66
90) Chrysene	14.187	228	46788	0.96	ppm		88
91) bis(2-Ethylhexyl)phtha...	14.561	149	18568	0.56	ppm		88
93) Di-n-octylphthalate	16.014	149	29961	0.53	ppm		96
94) Benzo[b]fluoranthene	16.420	252	37418	0.78	ppm		86
95) Benzo[k]fluoranthene	16.479	252	40865	0.85	ppm		77
96) Benzo[a]pyrene	17.051	252	31889	0.70	ppm		91
97) Indeno[1,2,3-cd]pyrene	19.113	276	29793	0.74	ppm		92
98) Dibenz(a,h)acridine	18.765	279	26543	0.70	ppm		96
99) Dibenz[a,h]anthracene	19.187	278	32870	0.74	ppm		84
100) 7,12-Dimethylbenz(a)an...	16.452	256	13808	0.63	ppm	#	60
101) Benzo[g,h,i]perylene	19.535	276	38577	0.86	ppm		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200129.D
Acq On : 26 Jun 2021 2:42 am
Operator : chriss2
Sample : ic8747-1
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 08:55:07 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration



Manual Integration Approval Summary

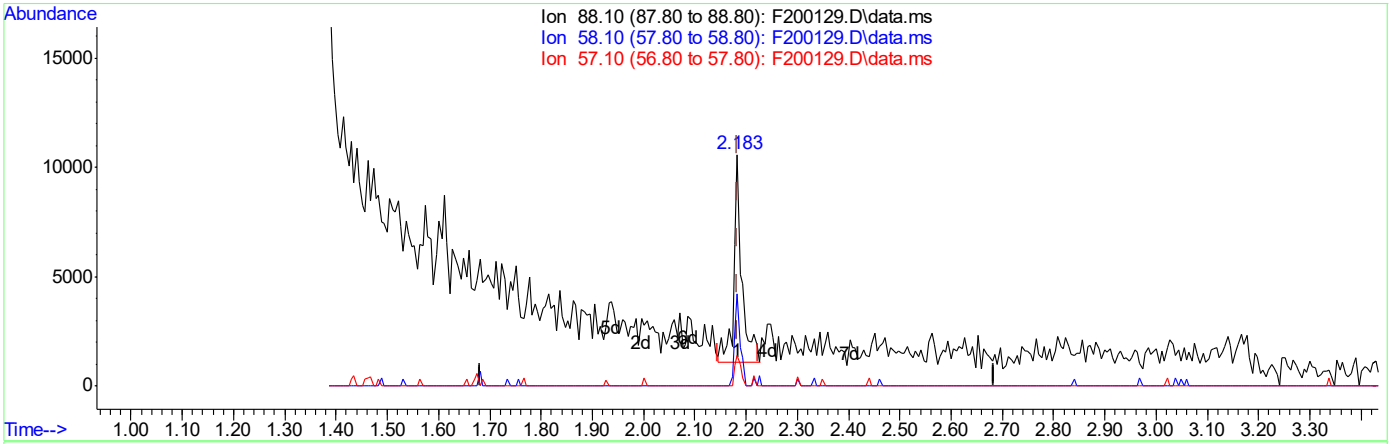
Sample Number: EF8747-IC8747
Lab FileID: F200129.D
Injection Time: 06/26/21 02:42
Method: SW846 8270E
Analyst approved: 06/26/21 09:57 Ying Li
Supervisor approved: 06/28/21 09:44 Nina Pandya

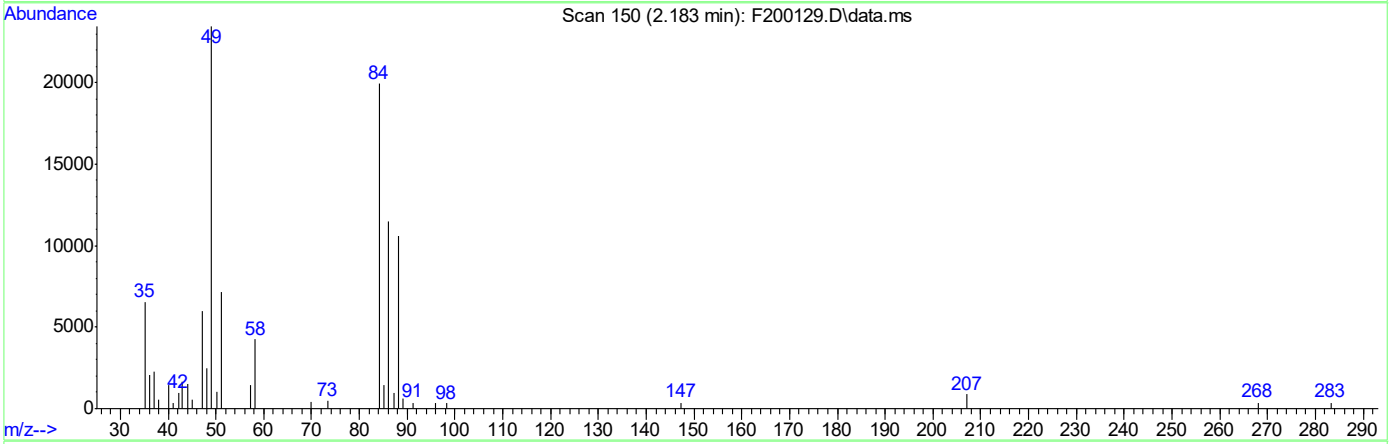
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.18	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200129.D
Acq On : 26 Jun 2021 2:42 am
Operator : chriss2
Sample : ic8747-1
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 08:52:23 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration





TIC: F200129.D\data.ms

(2) 1,4-Dioxane (t)

2.183min (-0.000) 1.63ppm

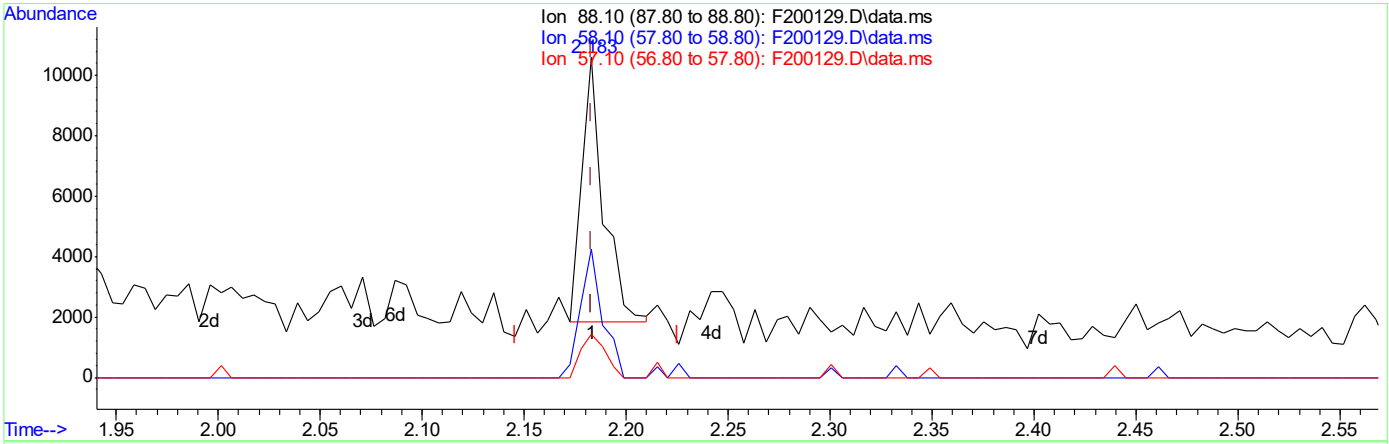
response 10285

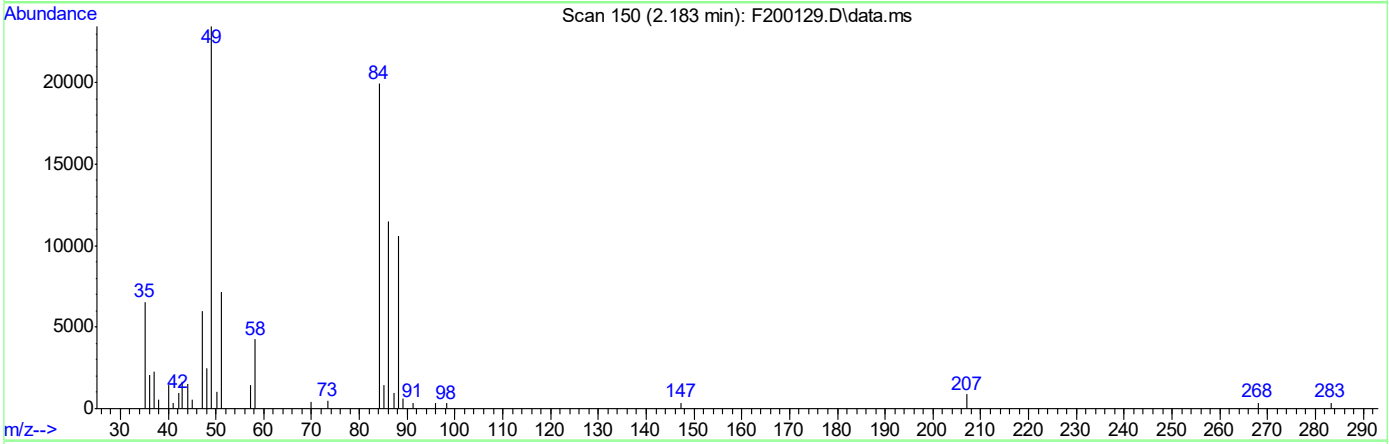
Ion	Exp%	Act%
88.10	100	100
58.10	54.00	42.90
57.10	20.90	15.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200129.D
Acq On : 26 Jun 2021 2:42 am
Operator : chriss2
Sample : ic8747-1
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 08:52:23 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration





TIC: F200129.D\data.ms

(2) 1,4-Dioxane (t)

2.183min (-0.000) 1.04ppm m

response 6583

Ion	Exp%	Act%
88.10	100	100
58.10	54.00	40.04
57.10	20.90	13.37
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/28/21 09:44

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200130.D
Acq On : 26 Jun 2021 3:08 am
Operator : chriss2
Sample : ic8747-2
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 08:52:04 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	421367	40.00	ppm	0.00
24) Naphthalene-d8	5.570	136	1673873	40.00	ppm	0.00
46) Acenaphthene-d10	6.975	164	924423	40.00	ppm	0.00
69) Phenanthrene-d10	8.856	188	1721691	40.00	ppm	0.00
83) Chrysene-d12	14.134	240	1540455	40.00	ppm	0.00
92) Perylene-d12	17.179	264	1472318	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.646	152	421367	40.00	ppm	0.00
112) Naphthalene-d8A	5.570	136	1673873	40.00	ppm	0.00
121) Acenaphthene-d10A	6.975	164	924423	40.00	ppm	0.00
132) Phenanthrene-d10A	8.856	188	1721691	40.00	ppm	0.00
147) Chrysene-d12A	14.134	240	1540455	40.00	ppm	0.00
154) Perylene-d12A	17.179	264	1472318	40.00	ppm	0.00
157) 1,4-Dichlorobenzene-d4b	4.646	152	421367	40.00	ppm	0.00
159) Phenanthrene-d10b	8.856	188	1721691	40.00	ppm	0.00
161) Naphthalene-d8b	5.570	136	1673873	40.00	ppm	0.00
163) Naphthalene-d8c	5.570	136	1673873	40.00	ppm	0.00
168) 1,4-Dichlorobenzene-d4c	4.646	152	421367	40.00	ppm	0.00
170) Chrysene-d12c	14.134	240	1540455	40.00	ppm	0.00
172) Chrysene-d12d	14.134	240	1540455	40.00	ppm	0.00
174) Naphthalene-d8d	5.570	136	1673873	40.00	ppm	0.00
176) Chrysene-d12e	14.134	240	1540455	40.00	ppm	0.00
178) Perylene-d12b	17.179	264	1472318	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.647	112	25137	1.87	ppm	0.00
Spiked Amount 50.000			Recovery =	3.74%		
8) Phenol-d5	4.363	99	34960	1.98	ppm	0.00
Spiked Amount 50.000			Recovery =	3.96%		
25) Nitrobenzene-d5	5.047	82	32165	1.89	ppm	0.00
Spiked Amount 50.000			Recovery =	3.78%		
51) 2-Fluorobiphenyl	6.366	172	58965	1.84	ppm	0.00
Spiked Amount 50.000			Recovery =	3.68%		
73) 2,4,6-Tribromophenol	7.857	330	7110	1.40	ppm	0.00
Spiked Amount 50.000			Recovery =	2.80%		
86) Terphenyl-d14	11.922	244	70219	1.86	ppm	0.00
Spiked Amount 50.000			Recovery =	3.72%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.183	88	12815m	2.29	ppm	
3) Pyridine	2.515	79	27514	1.79	ppm	91
4) N-Nitrosodimethylamine	2.472	42	16320	2.12	ppm	91
6) Indene	4.833	116	47380	1.96	ppm	96
7) Cumene	4.053	105	66225	1.85	ppm	94
9) Phenol	4.374	94	34540	1.91	ppm	97
10) Aniline	4.400	93	45502	2.03	ppm	72
11) bis(2-Chloroethyl)ether	4.448	93	26378	2.04	ppm	98
12) 2-Chlorophenol	4.486	128	26855	1.90	ppm	91
13) Decane	4.529	43	26042	2.19	ppm	94
14) 1,3-Dichlorobenzene	4.603	146	32962	2.03	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200130.D
Acq On : 26 Jun 2021 3:08 am
Operator : chriss2
Sample : ic8747-2
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 08:52:04 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
15) 1,4-Dichlorobenzene	4.657	146	33368	2.03	ppm		97
16) Benzyl alcohol	4.742	108	17343	1.85	ppm		93
17) 1,2-Dichlorobenzene	4.769	146	30474	1.99	ppm		97
18) Acetophenone	4.935	105	39946	1.85	ppm		91
19) 2-Methylphenol	4.817	108	24600	1.66	ppm		94
20) 2,2'-oxybis(1-Chloropr...	4.844	121	8278	2.22	ppm	#	66
21) 3&4-Methylphenol	4.929	108	50937	3.45	ppm		81
22) n-Nitroso-di-n-propyla...	4.935	70	20581	1.93	ppm		98
23) Hexachloroethane	5.020	201	11201	1.86	ppm		95
26) Nitrobenzene	5.057	77	33769	1.95	ppm		97
27) Quinoline	5.816	129	50133	1.83	ppm		93
28) Isophorone	5.234	82	50398	1.64	ppm		93
29) 2-Nitrophenol	5.287	139	12320	1.54	ppm		93
30) 2,4-Dimethylphenol	5.314	107	31402	1.91	ppm		90
31) Benzoic acid	5.335	105	12915	1.11	ppm		86
32) bis(2-Chloroethoxy)met...	5.389	93	29731	1.75	ppm		90
33) 2,4-Dichlorophenol	5.458	162	22110	1.81	ppm		92
34) 2,6-Dichlorophenol	5.624	162	22989	1.83	ppm		93
35) 1,3,5-Trichlorobenzene	5.298	180	28364	1.95	ppm		94
36) 1,2,4-Trichlorobenzene	5.528	180	28184	2.04	ppm		98
37) 1,2,3-Trichlorobenzene	5.683	180	23908	1.84	ppm		96
38) Naphthalene	5.581	128	81319	1.84	ppm		96
39) 4-Chloroaniline	5.618	127	32026	1.78	ppm		94
40) 2,3-Dichloroaniline	6.297	161	27223	1.75	ppm		83
41) Hydroquinone	5.832	110	21558	1.59	ppm		91
42) Hexachlorobutadiene	5.672	225	16233	1.87	ppm		90
43) 4-Chloro-3-methylphenol	5.955	107	22255	1.65	ppm		92
44) 2-Methylnaphthalene	6.083	141	46951	1.88	ppm		91
45) 1-Methylnaphthalene	6.158	142	48312	1.81	ppm		98
47) Hexachlorocyclopentadiene	6.201	237	29381	3.37	ppm		92
48) 1,2,4,5-tetrachloroben...	6.206	216	26975	1.87	ppm		98
49) 2,4,6-Trichlorophenol	6.292	196	16976	1.74	ppm		94
50) 2,4,5-Trichlorophenol	6.318	196	16841	1.70	ppm		92
52) 2-Chloronaphthalene	6.468	162	52703	1.95	ppm		98
53) Biphenyl	6.452	154	64666	1.83	ppm		97
54) 2-Nitroaniline	6.548	65	15547	1.73	ppm		91
55) Dimethylphthalate	6.708	163	57595	1.87	ppm		96
56) Acenaphthylene	6.836	152	59725	1.82	ppm		95
57) 2,6-Dinitrotoluene	6.762	165	10918	1.64	ppm		93
58) 3-Nitroaniline	6.922	138	11762	1.64	ppm		88
59) Acenaphthene	7.007	153	52494	1.93	ppm		95
60) 2,4-Dinitrophenol	7.023	184	12143	2.36	ppm		98
61) 4-Nitrophenol	7.072	109	7060	1.28	ppm		86
62) Dibenzofuran	7.184	168	75147	2.00	ppm		94
63) 2,4-Dinitrotoluene	7.162	165	14698	1.58	ppm		83
64) 2,3,4,6-Tetrachlorophenol	7.312	232	12748	1.55	ppm		92
65) Diethylphthalate	7.440	149	55198	1.76	ppm		99
66) Fluorene	7.568	166	58947	1.89	ppm		97
67) 4-Chlorophenyl-phenyle...	7.574	204	28972	1.86	ppm		93
68) 4-Nitroaniline	7.574	138	13142	1.76	ppm	#	76

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200130.D
Acq On : 26 Jun 2021 3:08 am
Operator : chriss2
Sample : ic8747-2
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 08:52:04 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration

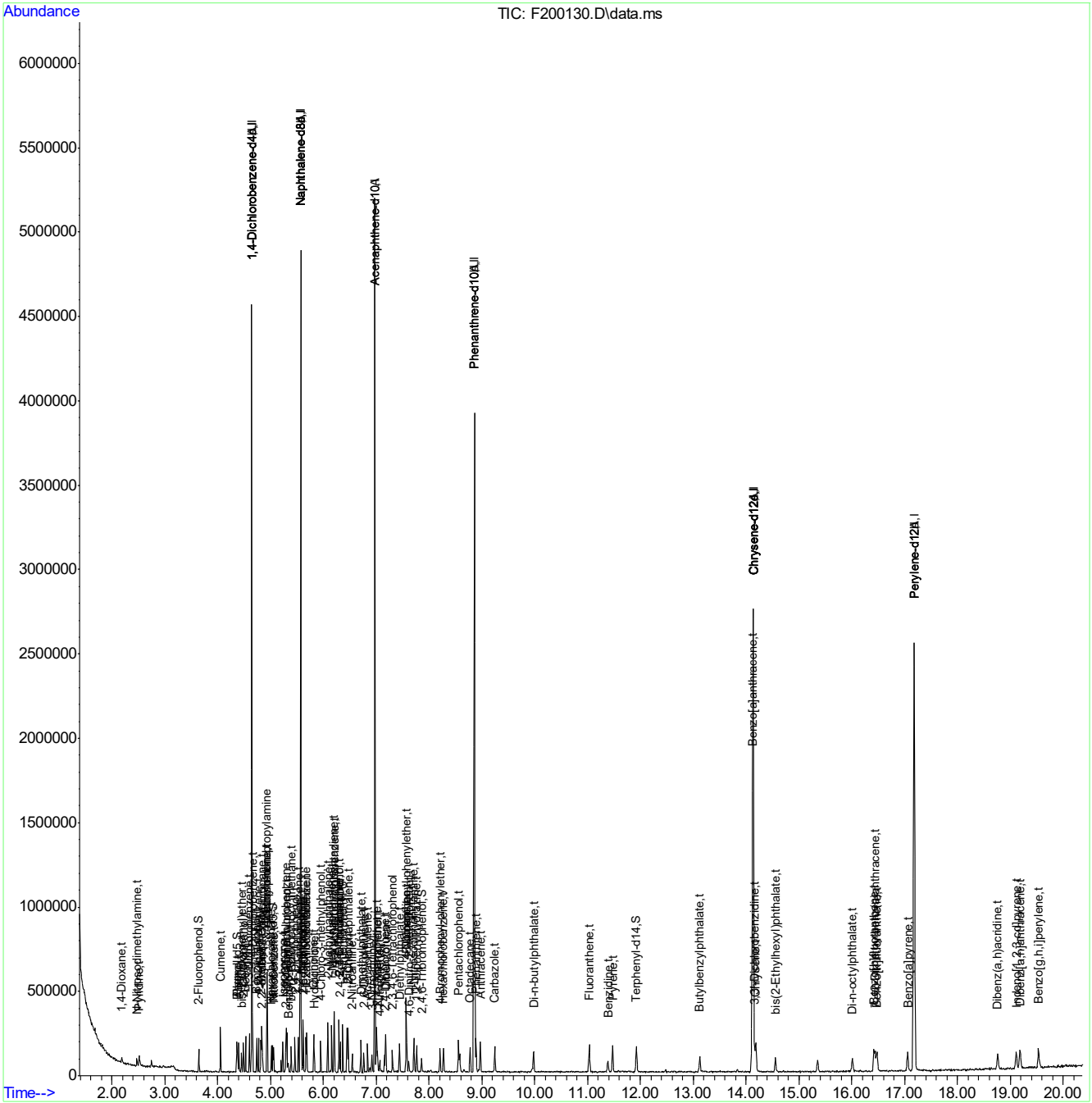
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4,6-Dinitro-2-methylph...	7.616	198	7591	1.24	ppm	87
71) n-Nitrosodiphenylamine	7.713	169	51825	1.83	ppm	98
72) 1,2-Diphenylhydrazine	7.766	77	62059	1.74	ppm	98
74) 4-Bromophenyl-phenylether	8.209	248	17642	1.86	ppm	96
75) Hexachlorobenzene	8.268	284	18711	1.81	ppm	92
76) Pentachlorophenol	8.557	266	20766	2.79	ppm	94
77) Phenanthrene	8.888	178	83088	1.81	ppm	92
78) Anthracene	8.973	178	80985	1.72	ppm	95
79) Carbazole	9.246	167	75710	1.81	ppm	94
80) Di-n-butylphthalate	9.978	149	85085	1.58	ppm	96
81) Fluoranthene	11.030	202	91343	1.81	ppm	93
82) Octadecane	8.776	57	29243	1.68	ppm	97
84) Benzidine	11.388	184	39271	1.48	ppm	93
85) Pyrene	11.474	202	89403	1.76	ppm	91
87) Butylbenzylphthalate	13.119	149	31954	1.43	ppm	93
88) Benzo[a]anthracene	14.118	228	84618	1.82	ppm	92
89) 3,3'-Dichlorobenzidine	14.161	252	24378	1.38	ppm	97
90) Chrysene	14.182	228	90772	1.98	ppm	90
91) bis(2-Ethylhexyl)phtha...	14.551	149	39358	1.27	ppm	86
93) Di-n-octylphthalate	16.009	149	65307	1.22	ppm	93
94) Benzo[b]fluoranthene	16.415	252	78501	1.74	ppm	97
95) Benzo[k]fluoranthene	16.479	252	76068	1.69	ppm	95
96) Benzo[a]pyrene	17.056	252	65961	1.55	ppm	96
97) Indeno[1,2,3-cd]pyrene	19.108	276	59683	1.58	ppm	94
98) Dibenz(a,h)acridine	18.755	279	49931	1.41	ppm	98
99) Dibenz[a,h]anthracene	19.182	278	67504	1.62	ppm	97
100) 7,12-Dimethylbenz(a)an...	16.442	256	29053	1.42	ppm	93
101) Benzo[g,h,i]perylene	19.535	276	71102	1.69	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200130.D
Acq On : 26 Jun 2021 3:08 am
Operator : chriss2
Sample : ic8747-2
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 08:52:04 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration



Manual Integration Approval Summary

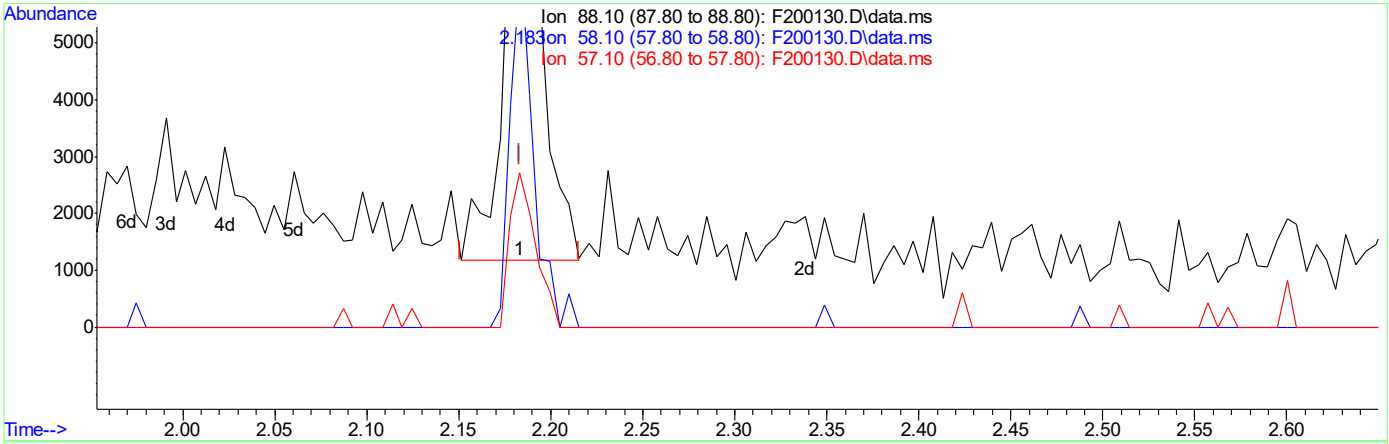
Sample Number: EF8747-IC8747
Lab FileID: F200130.D
Injection Time: 06/26/21 03:08
Method: SW846 8270E
Analyst approved: 06/26/21 09:57 Ying Li
Supervisor approved: 06/28/21 09:44 Nina Pandya

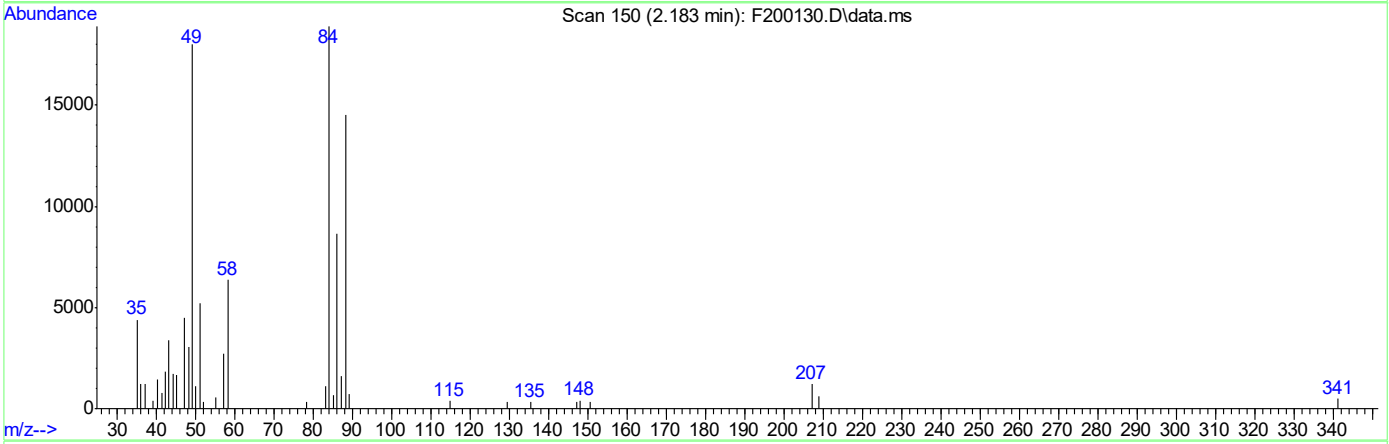
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.18	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200130.D
Acq On : 26 Jun 2021 3:08 am
Operator : chriss2
Sample : ic8747-2
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 08:49:34 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration





TIC: F200130.D\data.ms

(2) 1,4-Dioxane (t)

2.183min (-0.000) 2.47ppm

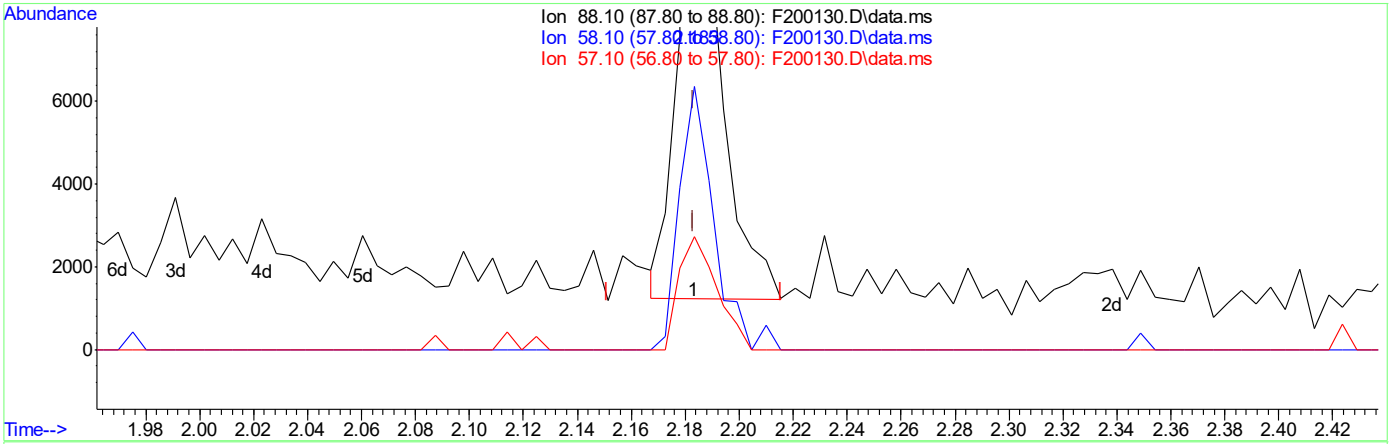
response 13803

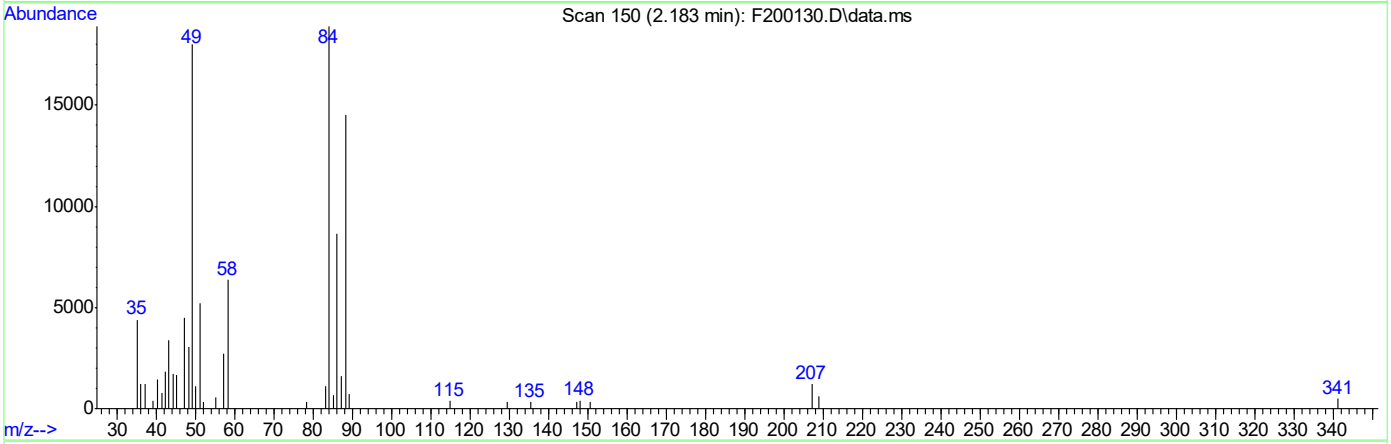
Ion	Exp%	Act%
88.10	100	100
58.10	54.00	47.74
57.10	20.90	20.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200130.D
Acq On : 26 Jun 2021 3:08 am
Operator : chriss2
Sample : ic8747-2
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 08:49:34 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration





TIC: F200130.D\data.ms

(2) 1,4-Dioxane (t)

2.183min (-0.000) 2.29ppm m

response 12815

Ion	Exp%	Act%
88.10	100	100
58.10	54.00	43.79
57.10	20.90	18.78
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200131.D
Acq On : 26 Jun 2021 3:33 am
Operator : chriss2
Sample : ic8747-5
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 08:49:10 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	449132	40.00	ppm	0.00
24) Naphthalene-d8	5.570	136	1716063	40.00	ppm	0.00
46) Acenaphthene-d10	6.975	164	959321	40.00	ppm	0.00
69) Phenanthrene-d10	8.856	188	1736713	40.00	ppm	0.00
83) Chrysene-d12	14.134	240	1552793	40.00	ppm	0.00
92) Perylene-d12	17.179	264	1467546	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.646	152	449132	40.00	ppm	0.00
112) Naphthalene-d8A	5.570	136	1716063	40.00	ppm	0.00
121) Acenaphthene-d10A	6.975	164	959321	40.00	ppm	0.00
132) Phenanthrene-d10A	8.856	188	1736713	40.00	ppm	0.00
147) Chrysene-d12A	14.134	240	1552793	40.00	ppm	0.00
154) Perylene-d12A	17.179	264	1467546	40.00	ppm	0.00
157) 1,4-Dichlorobenzene-d4b	4.646	152	449132	40.00	ppm	0.00
159) Phenanthrene-d10b	8.856	188	1736713	40.00	ppm	0.00
161) Naphthalene-d8b	5.570	136	1716063	40.00	ppm	0.00
163) Naphthalene-d8c	5.570	136	1716063	40.00	ppm	0.00
168) 1,4-Dichlorobenzene-d4c	4.646	152	449132	40.00	ppm	0.00
170) Chrysene-d12c	14.134	240	1552793	40.00	ppm	0.00
172) Chrysene-d12d	14.134	240	1552793	40.00	ppm	0.00
174) Naphthalene-d8d	5.570	136	1716063	40.00	ppm	0.00
176) Chrysene-d12e	14.134	240	1552793	40.00	ppm	0.00
178) Perylene-d12b	17.179	264	1467546	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.647	112	64570	4.51	ppm	0.00
Spiked Amount 50.000			Recovery = 9.02%			
8) Phenol-d5	4.363	99	85594	4.54	ppm	0.00
Spiked Amount 50.000			Recovery = 9.08%			
25) Nitrobenzene-d5	5.047	82	80788	4.62	ppm	0.00
Spiked Amount 50.000			Recovery = 9.24%			
51) 2-Fluorobiphenyl	6.366	172	149644	4.50	ppm	0.00
Spiked Amount 50.000			Recovery = 9.00%			
73) 2,4,6-Tribromophenol	7.857	330	19981	3.90	ppm	0.00
Spiked Amount 50.000			Recovery = 7.80%			
86) Terphenyl-d14	11.922	244	178486	4.69	ppm	0.00
Spiked Amount 50.000			Recovery = 9.38%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.183	88	33020	5.55	ppm	94
3) Pyridine	2.509	79	75516	4.62	ppm	95
4) N-Nitrosodimethylamine	2.466	42	39493	4.81	ppm	88
6) Indene	4.833	116	118114	4.58	ppm	99
7) Cumene	4.053	105	175723	4.61	ppm	99
9) Phenol	4.373	94	87009	4.50	ppm	89
10) Aniline	4.400	93	113278	4.75	ppm	60
11) bis(2-Chloroethyl)ether	4.448	93	66679	4.85	ppm	97
12) 2-Chlorophenol	4.486	128	70413	4.68	ppm	94
13) Decane	4.528	43	60213	4.75	ppm	98
14) 1,3-Dichlorobenzene	4.603	146	79174	4.57	ppm	95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200131.D
Acq On : 26 Jun 2021 3:33 am
Operator : chriss2
Sample : ic8747-5
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 08:49:10 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 1,4-Dichlorobenzene	4.657	146	84382	4.81	ppm	98
16) Benzyl alcohol	4.742	108	44963	4.49	ppm	94
17) 1,2-Dichlorobenzene	4.769	146	80853	4.95	ppm	97
18) Acetophenone	4.934	105	99027	4.31	ppm	97
19) 2-Methylphenol	4.822	108	59760	3.78	ppm	95
20) 2,2'-oxybis(1-Chloropr...	4.844	121	19394	4.89	ppm	99
21) 3&4-Methylphenol	4.929	108	135041	8.59	ppm	95
22) n-Nitroso-di-n-propyla...	4.934	70	53351	4.69	ppm	95
23) Hexachloroethane	5.020	201	30918	4.81	ppm	96
26) Nitrobenzene	5.057	77	82699	4.66	ppm	97
27) Quinoline	5.816	129	128982	4.60	ppm	99
28) Isophorone	5.234	82	145831	4.64	ppm	99
29) 2-Nitrophenol	5.292	139	33021	4.03	ppm	86
30) 2,4-Dimethylphenol	5.314	107	78520	4.66	ppm	93
31) Benzoic acid	5.340	105	40584	3.40	ppm	94
32) bis(2-Chloroethoxy)met...	5.389	93	81656	4.69	ppm	98
33) 2,4-Dichlorophenol	5.458	162	56471	4.51	ppm	94
34) 2,6-Dichlorophenol	5.624	162	57532	4.46	ppm	96
35) 1,3,5-Trichlorobenzene	5.298	180	69573	4.66	ppm	96
36) 1,2,4-Trichlorobenzene	5.527	180	64823	4.58	ppm	97
37) 1,2,3-Trichlorobenzene	5.682	180	64297	4.83	ppm	95
38) Naphthalene	5.581	128	204561	4.51	ppm	99
39) 4-Chloroaniline	5.618	127	82750	4.49	ppm	93
40) 2,3-Dichloroaniline	6.297	161	74481	4.66	ppm	94
41) Hydroquinone	5.832	110	60169	4.33	ppm	96
42) Hexachlorobutadiene	5.672	225	41880	4.72	ppm	94
43) 4-Chloro-3-methylphenol	5.955	107	61242	4.43	ppm	92
44) 2-Methylnaphthalene	6.083	141	117953	4.60	ppm	99
45) 1-Methylnaphthalene	6.158	142	127379	4.67	ppm	96
47) Hexachlorocyclopentadiene	6.201	237	75151	8.31	ppm	92
48) 1,2,4,5-tetrachloroben...	6.206	216	72508	4.86	ppm	96
49) 2,4,6-Trichlorophenol	6.291	196	47190	4.66	ppm	97
50) 2,4,5-Trichlorophenol	6.318	196	46045	4.47	ppm	99
52) 2-Chloronaphthalene	6.468	162	131249	4.68	ppm	95
53) Biphenyl	6.452	154	165149	4.50	ppm	100
54) 2-Nitroaniline	6.548	65	39588	4.26	ppm	94
55) Dimethylphthalate	6.708	163	148268	4.63	ppm	98
56) Acenaphthylene	6.836	152	149338	4.39	ppm	99
57) 2,6-Dinitrotoluene	6.767	165	28370	4.09	ppm	91
58) 3-Nitroaniline	6.922	138	29728	4.00	ppm	97
59) Acenaphthene	7.007	153	132528	4.70	ppm	92
60) 2,4-Dinitrophenol	7.023	184	37880	7.11	ppm	86
61) 4-Nitrophenol	7.071	109	22759	3.97	ppm	95
62) Dibenzofuran	7.184	168	180396	4.63	ppm	98
63) 2,4-Dinitrotoluene	7.162	165	40050	4.15	ppm	90
64) 2,3,4,6-Tetrachlorophenol	7.306	232	38467	4.51	ppm	85
65) Diethylphthalate	7.440	149	148547	4.57	ppm	98
66) Fluorene	7.568	166	145063	4.49	ppm	98
67) 4-Chlorophenyl-phenyle...	7.573	204	76483	4.73	ppm	95
68) 4-Nitroaniline	7.573	138	31335	4.03	ppm	93

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200131.D
Acq On : 26 Jun 2021 3:33 am
Operator : chriss2
Sample : ic8747-5
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 08:49:10 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration

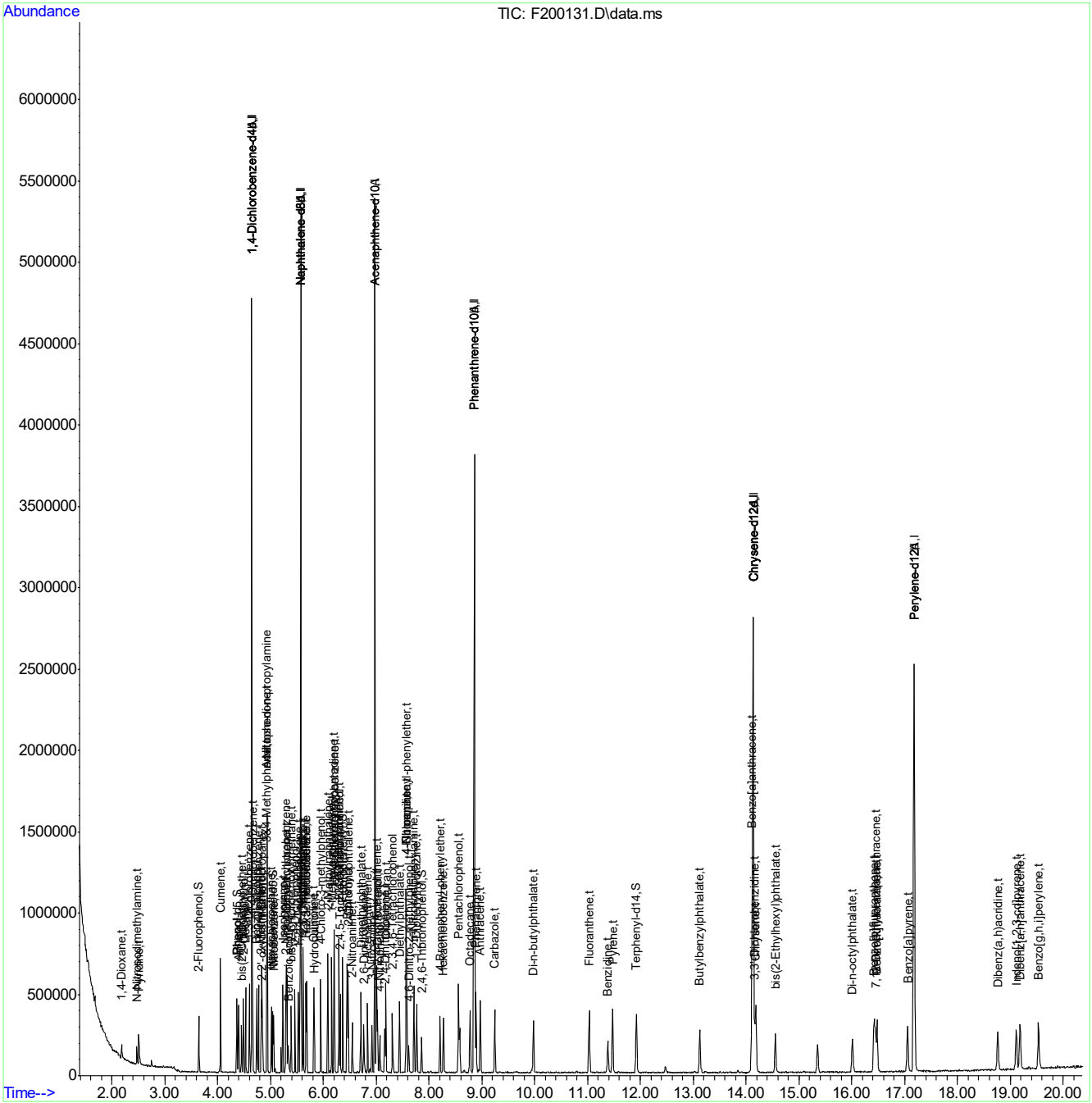
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4,6-Dinitro-2-methylph...	7.616	198	21465	3.48	ppm	95
71) n-Nitrosodiphenylamine	7.712	169	124007	4.35	ppm	94
72) 1,2-Diphenylhydrazine	7.766	77	162434	4.52	ppm	99
74) 4-Bromophenyl-phenylether	8.204	248	43753	4.57	ppm	83
75) Hexachlorobenzene	8.273	284	50914	4.89	ppm	88
76) Pentachlorophenol	8.556	266	60556	8.08	ppm	91
77) Phenanthrene	8.888	178	213444	4.60	ppm	98
78) Anthracene	8.968	178	212016	4.47	ppm	97
79) Carbazole	9.246	167	192093	4.54	ppm	99
80) Di-n-butylphthalate	9.972	149	220024	4.04	ppm	99
81) Fluoranthene	11.030	202	229189	4.51	ppm	96
82) Octadecane	8.775	57	76541	4.35	ppm	87
84) Benzidine	11.383	184	105025	3.92	ppm	99
85) Pyrene	11.473	202	237833	4.65	ppm	98
87) Butylbenzylphthalate	13.119	149	89546	3.98	ppm	98
88) Benzo[a]anthracene	14.112	228	211116	4.51	ppm	96
89) 3,3'-Dichlorobenzidine	14.160	252	71125	4.01	ppm	98
90) Chrysene	14.182	228	215591	4.67	ppm	97
91) bis(2-Ethylhexyl)phtha...	14.550	149	114533	3.66	ppm	99
93) Di-n-octylphthalate	16.009	149	175249	3.29	ppm	98
94) Benzo[b]fluoranthene	16.415	252	206845	4.59	ppm	98
95) Benzo[k]fluoranthene	16.474	252	196684	4.39	ppm	94
96) Benzo[a]pyrene	17.056	252	172570	4.06	ppm	97
97) Indeno[1,2,3-cd]pyrene	19.107	276	155631	4.12	ppm	91
98) Dibenz(a,h)acridine	18.760	279	141838	4.03	ppm	96
99) Dibenz[a,h]anthracene	19.182	278	172452	4.16	ppm	95
100) 7,12-Dimethylbenz(a)an...	16.447	256	76496	3.76	ppm	94
101) Benzo[g,h,i]perylene	19.535	276	184607	4.40	ppm	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200131.D
Acq On : 26 Jun 2021 3:33 am
Operator : chriss2
Sample : ic8747-5
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 08:49:10 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200132.D
Acq On : 26 Jun 2021 3:59 am
Operator : chriss2
Sample : ic8747-10
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 26 08:46:41 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	421466	40.00	ppm	0.00
24) Naphthalene-d8	5.570	136	1628538	40.00	ppm	0.00
46) Acenaphthene-d10	6.975	164	894610	40.00	ppm	0.00
69) Phenanthrene-d10	8.856	188	1650366	40.00	ppm	0.00
83) Chrysene-d12	14.128	240	1526188	40.00	ppm	0.00
92) Perylene-d12	17.179	264	1457707	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.646	152	421466	40.00	ppm	0.00
112) Naphthalene-d8A	5.570	136	1628538	40.00	ppm	0.00
121) Acenaphthene-d10A	6.975	164	894610	40.00	ppm	0.00
132) Phenanthrene-d10A	8.856	188	1650366	40.00	ppm	0.00
147) Chrysene-d12A	14.128	240	1526188	40.00	ppm	0.00
154) Perylene-d12A	17.179	264	1457707	40.00	ppm	0.00
157) 1,4-Dichlorobenzene-d4b	4.646	152	421466	40.00	ppm	0.00
159) Phenanthrene-d10b	8.856	188	1650366	40.00	ppm	0.00
161) Naphthalene-d8b	5.570	136	1628538	40.00	ppm	0.00
163) Naphthalene-d8c	5.570	136	1628538	40.00	ppm	0.00
168) 1,4-Dichlorobenzene-d4c	4.646	152	421466	40.00	ppm	0.00
170) Chrysene-d12c	14.128	240	1526188	40.00	ppm	0.00
172) Chrysene-d12d	14.128	240	1526188	40.00	ppm	0.00
174) Naphthalene-d8d	5.570	136	1628538	40.00	ppm	0.00
176) Chrysene-d12e	14.128	240	1526188	40.00	ppm	0.00
178) Perylene-d12b	17.179	264	1457707	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.647	112	126563	9.41	ppm	0.00
Spiked Amount 50.000			Recovery = 18.82%			
8) Phenol-d5	4.363	99	172684	9.76	ppm	0.00
Spiked Amount 50.000			Recovery = 19.52%			
25) Nitrobenzene-d5	5.047	82	153067	9.22	ppm	0.00
Spiked Amount 50.000			Recovery = 18.44%			
51) 2-Fluorobiphenyl	6.366	172	284945	9.18	ppm	0.00
Spiked Amount 50.000			Recovery = 18.36%			
73) 2,4,6-Tribromophenol	7.857	330	41907	8.61	ppm	0.00
Spiked Amount 50.000			Recovery = 17.22%			
86) Terphenyl-d14	11.922	244	348211	9.31	ppm	0.00
Spiked Amount 50.000			Recovery = 18.62%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.183	88	56444	10.10	ppm	99
3) Pyridine	2.504	79	142170	9.27	ppm	98
4) N-Nitrosodimethylamine	2.466	42	71745	9.31	ppm	97
6) Indene	4.833	116	230339	9.52	ppm	99
7) Cumene	4.053	105	332625	9.29	ppm	98
9) Phenol	4.373	94	175434	9.67	ppm	96
10) Aniline	4.400	93	217338	9.71	ppm	69
11) bis(2-Chloroethyl)ether	4.448	93	123196	9.54	ppm	89
12) 2-Chlorophenol	4.486	128	140745	9.97	ppm	94
13) Decane	4.528	43	116559	9.80	ppm	99
14) 1,3-Dichlorobenzene	4.603	146	152927	9.40	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200132.D
Acq On : 26 Jun 2021 3:59 am
Operator : chriss2
Sample : ic8747-10
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 26 08:46:41 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
15) 1,4-Dichlorobenzene	4.657	146	156855	9.53	ppm		98
16) Benzyl alcohol	4.742	108	91076	9.69	ppm		98
17) 1,2-Dichlorobenzene	4.769	146	149108	9.73	ppm		100
18) Acetophenone	4.934	105	195135	9.06	ppm		97
19) 2-Methylphenol	4.822	108	126399	8.52	ppm		97
20) 2,2'-oxybis(1-Chloropr...	4.844	121	37735	10.13	ppm		91
21) 3&4-Methylphenol	4.934	108	268873	18.23	ppm		97
22) n-Nitroso-di-n-propyla...	4.934	70	103134	9.65	ppm		88
23) Hexachloroethane	5.020	201	56133	9.30	ppm		97
26) Nitrobenzene	5.063	77	165546	9.83	ppm		91
27) Quinoline	5.821	129	244769	9.20	ppm		97
28) Isophorone	5.234	82	268730	9.01	ppm		96
29) 2-Nitrophenol	5.292	139	70939	9.11	ppm		91
30) 2,4-Dimethylphenol	5.314	107	151725	9.49	ppm		98
31) Benzoic acid	5.351	105	90231	7.96	ppm		94
32) bis(2-Chloroethoxy)met...	5.389	93	155441	9.40	ppm		97
33) 2,4-Dichlorophenol	5.458	162	114190	9.60	ppm		94
34) 2,6-Dichlorophenol	5.624	162	111138	9.08	ppm		95
35) 1,3,5-Trichlorobenzene	5.298	180	130826	9.24	ppm		98
36) 1,2,4-Trichlorobenzene	5.527	180	127383	9.47	ppm		93
37) 1,2,3-Trichlorobenzene	5.682	180	120886	9.57	ppm		96
38) Naphthalene	5.581	128	391750	9.11	ppm		95
39) 4-Chloroaniline	5.618	127	153557	8.79	ppm		94
40) 2,3-Dichloroaniline	6.297	161	140743	9.29	ppm		99
41) Hydroquinone	5.832	110	116652	8.84	ppm		99
42) Hexachlorobutadiene	5.672	225	80266	9.53	ppm		98
43) 4-Chloro-3-methylphenol	5.955	107	121866	9.29	ppm		94
44) 2-Methylnaphthalene	6.083	141	223497	9.18	ppm		99
45) 1-Methylnaphthalene	6.158	142	255499	9.87	ppm		97
47) Hexachlorocyclopentadiene	6.201	237	148190	17.58	ppm		95
48) 1,2,4,5-tetrachloroben...	6.206	216	131487	9.44	ppm		98
49) 2,4,6-Trichlorophenol	6.291	196	82002	8.68	ppm		96
50) 2,4,5-Trichlorophenol	6.318	196	88511	9.22	ppm		93
52) 2-Chloronaphthalene	6.468	162	243894	9.32	ppm		96
53) Biphenyl	6.452	154	323276	9.45	ppm		100
54) 2-Nitroaniline	6.548	65	76987	8.87	ppm		90
55) Dimethylphthalate	6.708	163	286910	9.62	ppm		100
56) Acenaphthylene	6.836	152	304722	9.60	ppm		98
57) 2,6-Dinitrotoluene	6.767	165	58133	9.00	ppm		84
58) 3-Nitroaniline	6.922	138	63152	9.11	ppm		99
59) Acenaphthene	7.007	153	252343	9.59	ppm		94
60) 2,4-Dinitrophenol	7.023	184	81120	16.32	ppm	#	81
61) 4-Nitrophenol	7.071	109	46383	8.67	ppm		95
62) Dibenzofuran	7.184	168	347503	9.57	ppm		98
63) 2,4-Dinitrotoluene	7.162	165	79272	8.81	ppm		94
64) 2,3,4,6-Tetrachlorophenol	7.306	232	76612	9.62	ppm		91
65) Diethylphthalate	7.440	149	279728	9.23	ppm		99
66) Fluorene	7.568	166	291700	9.69	ppm		99
67) 4-Chlorophenyl-phenyle...	7.574	204	142311	9.43	ppm		97
68) 4-Nitroaniline	7.574	138	64803	8.94	ppm		95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200132.D
Acq On : 26 Jun 2021 3:59 am
Operator : chriss2
Sample : ic8747-10
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 26 08:46:41 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration

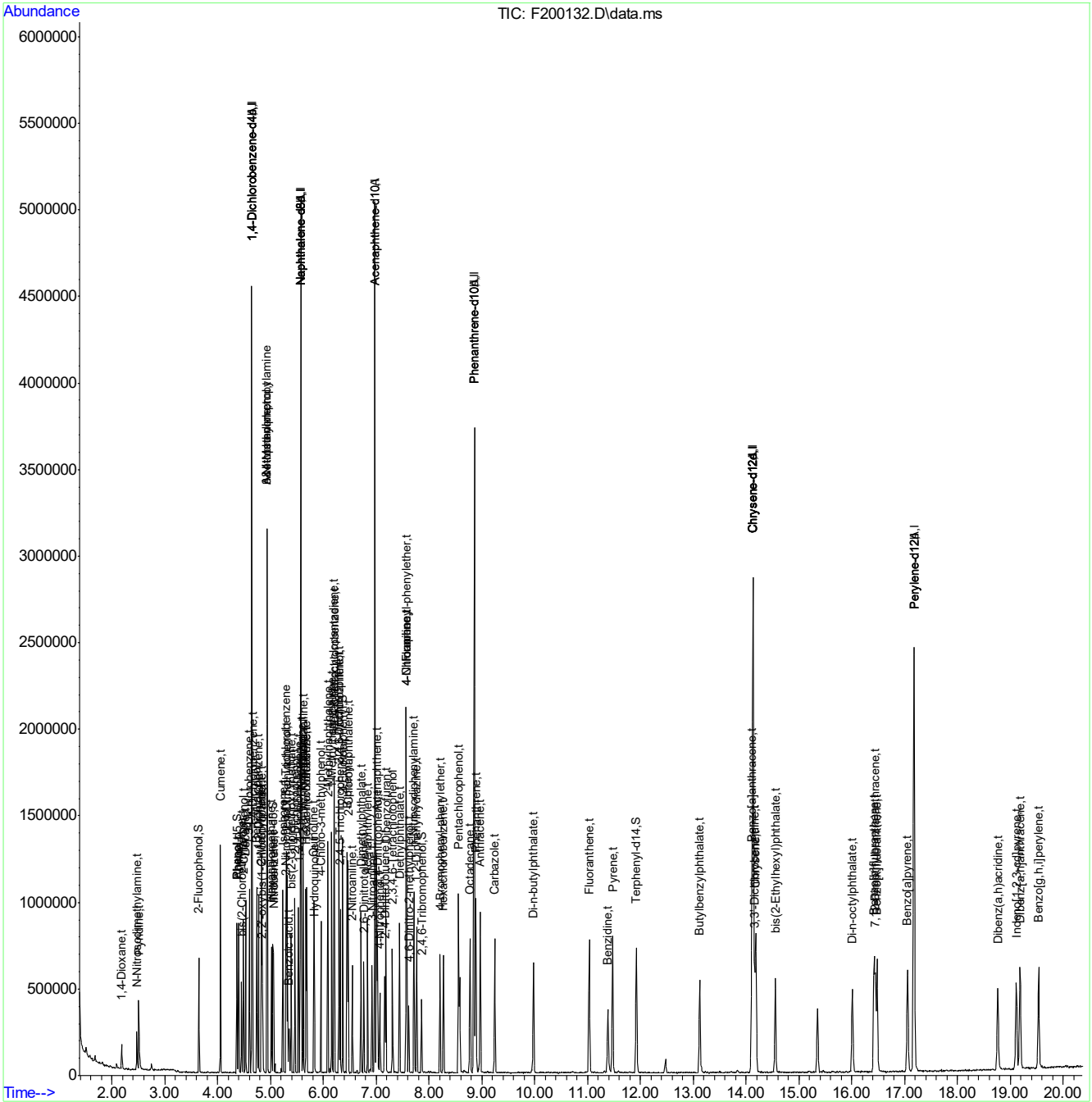
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4,6-Dinitro-2-methylph...	7.616	198	46454	7.92	ppm	95
71) n-Nitrosodiphenylamine	7.712	169	251707	9.29	ppm	98
72) 1,2-Diphenylhydrazine	7.766	77	318680	9.32	ppm	100
74) 4-Bromophenyl-phenylether	8.204	248	88361	9.72	ppm	89
75) Hexachlorobenzene	8.268	284	94904	9.59	ppm	97
76) Pentachlorophenol	8.556	266	123389	17.32	ppm	96
77) Phenanthrene	8.888	178	422500	9.59	ppm	99
78) Anthracene	8.968	178	419742	9.30	ppm	99
79) Carbazole	9.240	167	375397	9.34	ppm	98
80) Di-n-butylphthalate	9.972	149	458736	8.87	ppm	99
81) Fluoranthene	11.030	202	461294	9.55	ppm	99
82) Octadecane	8.775	57	150440	9.00	ppm	98
84) Benzidine	11.383	184	209728	7.97	ppm	96
85) Pyrene	11.473	202	473258	9.41	ppm	98
87) Butylbenzylphthalate	13.119	149	187596	8.48	ppm	97
88) Benzo[a]anthracene	14.107	228	425426	9.25	ppm	99
89) 3,3'-Dichlorobenzidine	14.160	252	152879	8.76	ppm	97
90) Chrysene	14.182	228	436978	9.63	ppm	98
91) bis(2-Ethylhexyl)phtha...	14.550	149	259503	8.43	ppm	99
93) Di-n-octylphthalate	16.009	149	406709	7.69	ppm	99
94) Benzo[b]fluoranthene	16.415	252	423904	9.48	ppm	99
95) Benzo[k]fluoranthene	16.479	252	413049	9.28	ppm	97
96) Benzo[a]pyrene	17.051	252	376397	8.92	ppm	96
97) Indeno[1,2,3-cd]pyrene	19.107	276	331388	8.84	ppm	97
98) Dibenz(a,h)acridine	18.760	279	298370	8.53	ppm	99
99) Dibenz[a,h]anthracene	19.182	278	367492	8.91	ppm	94
100) 7,12-Dimethylbenz(a)an...	16.442	256	161743	8.00	ppm	96
101) Benzo[g,h,i]perylene	19.535	276	381723	9.15	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200132.D
Acq On : 26 Jun 2021 3:59 am
Operator : chriss2
Sample : ic8747-10
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 26 08:46:41 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200133.D
Acq On : 26 Jun 2021 4:25 am
Operator : chriss2
Sample : ic8747-25
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 08:44:27 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	439328	40.00	ppm	0.00
24) Naphthalene-d8	5.570	136	1690778	40.00	ppm	0.00
46) Acenaphthene-d10	6.975	164	947605	40.00	ppm	0.00
69) Phenanthrene-d10	8.855	188	1729988	40.00	ppm	0.00
83) Chrysene-d12	14.134	240	1590590	40.00	ppm	0.00
92) Perylene-d12	17.179	264	1492985	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.646	152	439328	40.00	ppm	0.00
112) Naphthalene-d8A	5.570	136	1690778	40.00	ppm	0.00
121) Acenaphthene-d10A	6.975	164	947605	40.00	ppm	0.00
132) Phenanthrene-d10A	8.855	188	1729988	40.00	ppm	0.00
147) Chrysene-d12A	14.134	240	1590590	40.00	ppm	0.00
154) Perylene-d12A	17.179	264	1492985	40.00	ppm	0.00
157) 1,4-Dichlorobenzene-d4b	4.646	152	439328	40.00	ppm	0.00
159) Phenanthrene-d10b	8.855	188	1729988	40.00	ppm	0.00
161) Naphthalene-d8b	5.570	136	1690778	40.00	ppm	0.00
163) Naphthalene-d8c	5.570	136	1690778	40.00	ppm	0.00
168) 1,4-Dichlorobenzene-d4c	4.646	152	439328	40.00	ppm	0.00
170) Chrysene-d12c	14.134	240	1590590	40.00	ppm	0.00
172) Chrysene-d12d	14.134	240	1590590	40.00	ppm	0.00
174) Naphthalene-d8d	5.570	136	1690778	40.00	ppm	0.00
176) Chrysene-d12e	14.134	240	1590590	40.00	ppm	0.00
178) Perylene-d12b	17.179	264	1492985	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.647	112	333595	23.80	ppm	0.00
Spiked Amount 50.000			Recovery = 47.60%			
8) Phenol-d5	4.363	99	459277	24.91	ppm	0.00
Spiked Amount 50.000			Recovery = 49.82%			
25) Nitrobenzene-d5	5.046	82	415076	24.09	ppm	0.00
Spiked Amount 50.000			Recovery = 48.18%			
51) 2-Fluorobiphenyl	6.366	172	790289	24.04	ppm	0.00
Spiked Amount 50.000			Recovery = 48.08%			
73) 2,4,6-Tribromophenol	7.862	330	119239	23.38	ppm	0.00
Spiked Amount 50.000			Recovery = 46.76%			
86) Terphenyl-d14	11.922	244	927837	23.81	ppm	0.00
Spiked Amount 50.000			Recovery = 47.62%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.183	88	141716	24.33	ppm	97
3) Pyridine	2.503	79	396451	24.79	ppm	98
4) N-Nitrosodimethylamine	2.466	42	194739	24.23	ppm	92
6) Indene	4.833	116	613345	24.31	ppm	99
7) Cumene	4.053	105	890570	23.86	ppm	97
9) Phenol	4.373	94	455948	24.12	ppm	88
10) Aniline	4.400	93	561198	24.06	ppm	96
11) bis(2-Chloroethyl)ether	4.453	93	332330	24.70	ppm	98
12) 2-Chlorophenol	4.485	128	366007	24.87	ppm	93
13) Decane	4.528	43	307543	24.81	ppm	98
14) 1,3-Dichlorobenzene	4.603	146	413896	24.41	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200133.D
Acq On : 26 Jun 2021 4:25 am
Operator : chriss2
Sample : ic8747-25
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 08:44:27 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 1,4-Dichlorobenzene	4.662	146	417835	24.36	ppm	98
16) Benzyl alcohol	4.742	108	236420	24.14	ppm	94
17) 1,2-Dichlorobenzene	4.769	146	393267	24.61	ppm	98
18) Acetophenone	4.940	105	532645	23.72	ppm	81
19) 2-Methylphenol	4.822	108	338497	21.89	ppm	98
20) 2,2'-oxybis(1-Chloropr...	4.849	121	95389	24.57	ppm	97
21) 3&4-Methylphenol	4.934	108	750650	48.83	ppm	99
22) n-Nitroso-di-n-propyla...	4.940	70	279845	25.13	ppm	98
23) Hexachloroethane	5.020	201	153737	24.43	ppm	98
26) Nitrobenzene	5.062	77	424270	24.27	ppm	97
27) Quinoline	5.821	129	663600	24.03	ppm	98
28) Isophorone	5.233	82	743656	24.01	ppm	96
29) 2-Nitrophenol	5.292	139	193939	24.00	ppm	98
30) 2,4-Dimethylphenol	5.319	107	402289	24.23	ppm	97
31) Benzoic acid	5.378	105	267187	22.70	ppm	88
32) bis(2-Chloroethoxy)met...	5.388	93	416778	24.27	ppm	96
33) 2,4-Dichlorophenol	5.463	162	305765	24.77	ppm	96
34) 2,6-Dichlorophenol	5.623	162	299961	23.62	ppm	96
35) 1,3,5-Trichlorobenzene	5.303	180	353289	24.03	ppm	96
36) 1,2,4-Trichlorobenzene	5.527	180	342091	24.51	ppm	100
37) 1,2,3-Trichlorobenzene	5.687	180	319977	24.40	ppm	98
38) Naphthalene	5.586	128	1042250	23.33	ppm	98
39) 4-Chloroaniline	5.618	127	445328	24.55	ppm	95
40) 2,3-Dichloroaniline	6.296	161	383773	24.39	ppm	97
41) Hydroquinone	5.837	110	335958	24.52	ppm	94
42) Hexachlorobutadiene	5.671	225	219866	25.13	ppm	95
43) 4-Chloro-3-methylphenol	5.955	107	323769	23.77	ppm	94
44) 2-Methylnaphthalene	6.083	141	615811	24.36	ppm	98
45) 1-Methylnaphthalene	6.158	142	657343	24.45	ppm	98
47) Hexachlorocyclopentadiene	6.200	237	414677	46.45	ppm	97
48) 1,2,4,5-tetrachloroben...	6.211	216	354233	24.01	ppm	98
49) 2,4,6-Trichlorophenol	6.296	196	243156	24.30	ppm	97
50) 2,4,5-Trichlorophenol	6.318	196	243044	23.89	ppm	96
52) 2-Chloronaphthalene	6.467	162	665668	24.01	ppm	97
53) Biphenyl	6.451	154	863462	23.82	ppm	98
54) 2-Nitroaniline	6.548	65	221977	24.16	ppm	98
55) Dimethylphthalate	6.713	163	760186	24.06	ppm	99
56) Acenaphthylene	6.836	152	817370	24.32	ppm	99
57) 2,6-Dinitrotoluene	6.767	165	165510	24.18	ppm	94
58) 3-Nitroaniline	6.922	138	181201	24.68	ppm	89
59) Acenaphthene	7.007	153	674671	24.21	ppm	93
60) 2,4-Dinitrophenol	7.028	184	238978	45.40	ppm	91
61) 4-Nitrophenol	7.071	109	136514	24.10	ppm	97
62) Dibenzofuran	7.183	168	935180	24.30	ppm	96
63) 2,4-Dinitrotoluene	7.162	165	228806	24.00	ppm	94
64) 2,3,4,6-Tetrachlorophenol	7.311	232	205216	24.34	ppm	95
65) Diethylphthalate	7.445	149	772734	24.08	ppm	98
66) Fluorene	7.568	166	773708	24.26	ppm	98
67) 4-Chlorophenyl-phenyle...	7.573	204	379466	23.74	ppm	97
68) 4-Nitroaniline	7.584	138	184108	23.99	ppm	93

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200133.D
Acq On : 26 Jun 2021 4:25 am
Operator : chriss2
Sample : ic8747-25
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 08:44:27 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration

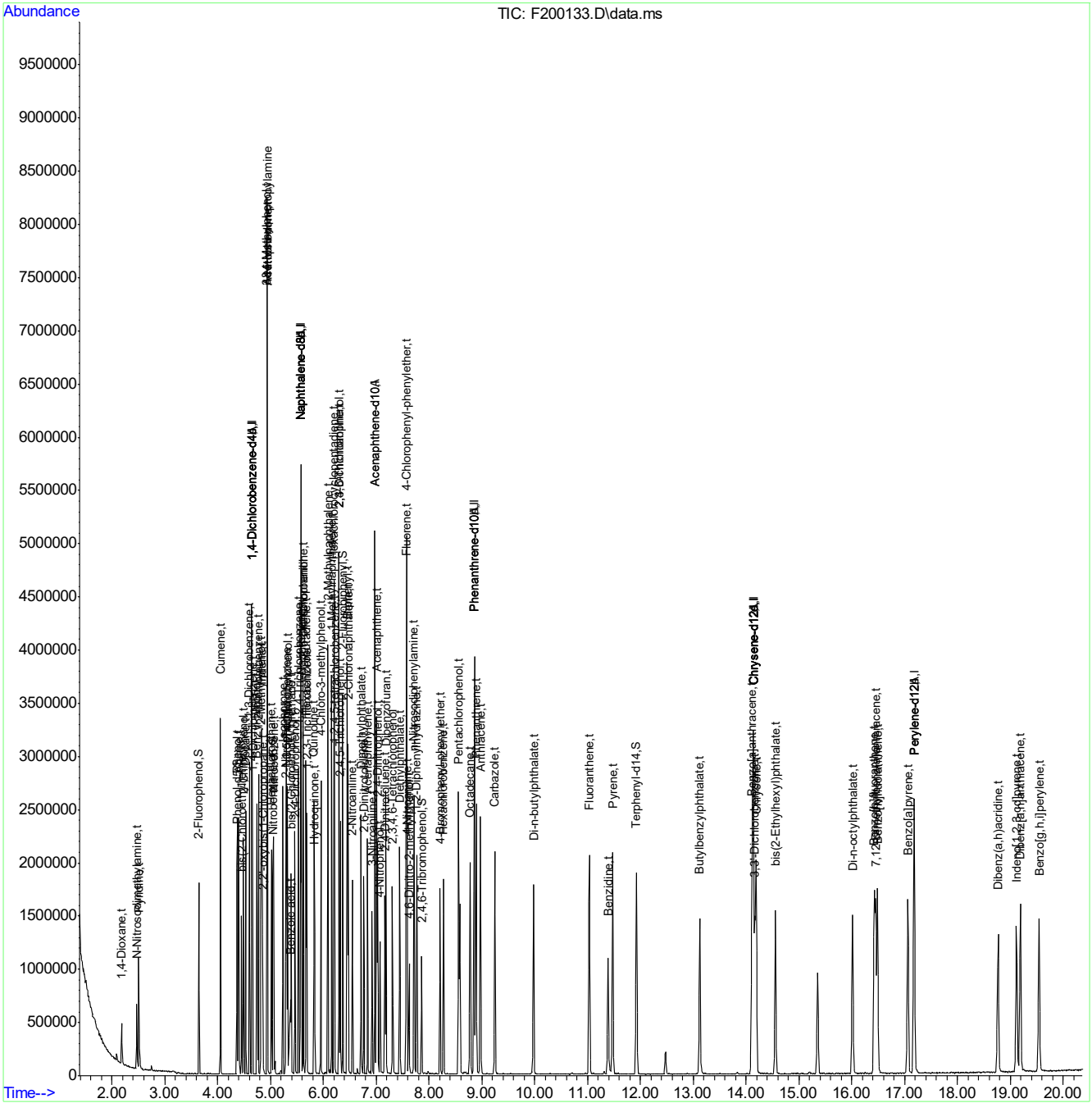
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	4,6-Dinitro-2-methylph...	7.621	198	136197	22.14	ppm	95
71)	n-Nitrosodiphenylamine	7.712	169	681671	24.01	ppm	99
72)	1,2-Diphenylhydrazine	7.766	77	855654	23.88	ppm	96
74)	4-Bromophenyl-phenylether	8.209	248	224951	23.61	ppm	97
75)	Hexachlorobenzene	8.273	284	248494	23.95	ppm	98
76)	Pentachlorophenol	8.562	266	345092	46.22	ppm	96
77)	Phenanthrene	8.893	178	1104303	23.91	ppm	99
78)	Anthracene	8.973	178	1116253	23.60	ppm	99
79)	Carbazole	9.245	167	1004546	23.84	ppm	99
80)	Di-n-butylphthalate	9.977	149	1274058	23.51	ppm	99
81)	Fluoranthene	11.030	202	1199649	23.71	ppm	98
82)	Octadecane	8.775	57	420127	23.99	ppm	96
84)	Benzidine	11.388	184	616133	22.47	ppm	99
85)	Pyrene	11.473	202	1241377	23.68	ppm	99
87)	Butylbenzylphthalate	13.119	149	531000	23.03	ppm	91
88)	Benzo[a]anthracene	14.112	228	1146782	23.94	ppm	98
89)	3,3'-Dichlorobenzidine	14.160	252	414757	22.81	ppm	97
90)	Chrysene	14.187	228	1135659	24.02	ppm	98
91)	bis(2-Ethylhexyl)phtha...	14.550	149	749773	23.38	ppm	99
93)	Di-n-octylphthalate	16.014	149	1268324	23.42	ppm	99
94)	Benzo[b]fluoranthene	16.425	252	1160793	25.33	ppm	98
95)	Benzo[k]fluoranthene	16.484	252	1055068	23.15	ppm	98
96)	Benzo[a]pyrene	17.061	252	1045483	24.20	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.118	276	896154	23.33	ppm	98
98)	Dibenz(a,h)acridine	18.765	279	840074	23.44	ppm	97
99)	Dibenz[a,h]anthracene	19.187	278	979908	23.21	ppm	97
100)	7,12-Dimethylbenz(a)an...	16.452	256	486015	23.47	ppm	97
101)	Benzo[g,h,i]perylene	19.545	276	1025395	24.00	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200133.D
Acq On : 26 Jun 2021 4:25 am
Operator : chriss2
Sample : ic8747-25
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 08:44:27 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200134.D
Acq On : 26 Jun 2021 4:51 am
Operator : chriss2
Sample : icc8747-50
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 08:37:35 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	445499	40.00	ppm	0.00
24) Naphthalene-d8	5.570	136	1693754	40.00	ppm	0.00
46) Acenaphthene-d10	6.975	164	939342	40.00	ppm	0.00
69) Phenanthrene-d10	8.856	188	1674475	40.00	ppm	0.00
83) Chrysene-d12	14.134	240	1546200	40.00	ppm	0.00
92) Perylene-d12	17.179	264	1464955	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.646	152	445499	40.00	ppm	0.00
112) Naphthalene-d8A	5.570	136	1693754	40.00	ppm	0.00
121) Acenaphthene-d10A	6.975	164	939342	40.00	ppm	0.00
132) Phenanthrene-d10A	8.856	188	1674475	40.00	ppm	0.00
147) Chrysene-d12A	14.134	240	1546200	40.00	ppm	0.00
154) Perylene-d12A	17.179	264	1464955	40.00	ppm	0.00
157) 1,4-Dichlorobenzene-d4b	4.646	152	445499	40.00	ppm	0.00
159) Phenanthrene-d10b	8.856	188	1674475	40.00	ppm	0.00
161) Naphthalene-d8b	5.570	136	1693754	40.00	ppm	0.00
163) Naphthalene-d8c	5.570	136	1693754	40.00	ppm	0.00
168) 1,4-Dichlorobenzene-d4c	4.646	152	445499	40.00	ppm	0.00
170) Chrysene-d12c	14.134	240	1546200	40.00	ppm	0.00
172) Chrysene-d12d	14.134	240	1546200	40.00	ppm	0.00
174) Naphthalene-d8d	5.570	136	1693754	40.00	ppm	0.00
176) Chrysene-d12e	14.134	240	1546200	40.00	ppm	0.00
178) Perylene-d12b	17.179	264	1464955	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.647	112	710619	50.00	ppm	0.00
Spiked Amount 50.000			Recovery = 100.00%			
8) Phenol-d5	4.368	99	934852	50.00	ppm	0.00
Spiked Amount 50.000			Recovery = 100.00%			
25) Nitrobenzene-d5	5.052	82	863085	50.00	ppm	0.00
Spiked Amount 50.000			Recovery = 100.00%			
51) 2-Fluorobiphenyl	6.366	172	1629689	50.00	ppm	0.00
Spiked Amount 50.000			Recovery = 100.00%			
73) 2,4,6-Tribromophenol	7.862	330	246791	50.00	ppm	0.00
Spiked Amount 50.000			Recovery = 100.00%			
86) Terphenyl-d14	11.928	244	1894186	50.00	ppm	0.00
Spiked Amount 50.000			Recovery = 100.00%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.183	88	295307	50.00	ppm	100
3) Pyridine	2.499	79	810842	50.00	ppm	100
4) N-Nitrosodimethylamine	2.472	42	407455	50.00	ppm	100
6) Indene	4.833	116	1279183	50.00	ppm	100
7) Cumene	4.053	105	1892479	50.00	ppm	100
9) Phenol	4.379	94	958357	50.00	ppm	100
10) Aniline	4.400	93	1182546	50.00	ppm	100
11) bis(2-Chloroethyl)ether	4.454	93	682166	50.00	ppm	100
12) 2-Chlorophenol	4.491	128	746282	50.00	ppm	100
13) Decane	4.529	43	628456	50.00	ppm	100
14) 1,3-Dichlorobenzene	4.603	146	859636	50.00	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200134.D
Acq On : 26 Jun 2021 4:51 am
Operator : chriss2
Sample : icc8747-50
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 08:37:35 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 1,4-Dichlorobenzene	4.662	146	869689	50.00	ppm	100
16) Benzyl alcohol	4.748	108	496547	50.00	ppm	100
17) 1,2-Dichlorobenzene	4.769	146	810144	50.00	ppm	100
18) Acetophenone	4.940	105	1138558	50.00	ppm	100
19) 2-Methylphenol	4.822	108	687792	43.86	ppm	100
20) 2,2'-oxybis(1-Chloropr...	4.849	121	196808	50.00	ppm	100
21) 3&4-Methylphenol	4.940	108	1559010	100.00	ppm	100
22) n-Nitroso-di-n-propyla...	4.945	70	564706	50.00	ppm	100
23) Hexachloroethane	5.020	201	319110	50.00	ppm	100
26) Nitrobenzene	5.063	77	875522	50.00	ppm	100
27) Quinoline	5.827	129	1379892	49.87	ppm	100
28) Isophorone	5.239	82	1551287	50.00	ppm	100
29) 2-Nitrophenol	5.293	139	404718	50.00	ppm	100
30) 2,4-Dimethylphenol	5.319	107	831568	50.00	ppm	100
31) Benzoic acid	5.394	105	589564	50.00	ppm	100
32) bis(2-Chloroethoxy)met...	5.394	93	860047	50.00	ppm	100
33) 2,4-Dichlorophenol	5.464	162	615731	49.80	ppm	100
34) 2,6-Dichlorophenol	5.624	162	636179	50.00	ppm	100
35) 1,3,5-Trichlorobenzene	5.303	180	736265	50.00	ppm	100
36) 1,2,4-Trichlorobenzene	5.528	180	699184	50.00	ppm	100
37) 1,2,3-Trichlorobenzene	5.688	180	656892	50.00	ppm	100
38) Naphthalene	5.586	128	2237292	50.00	ppm	100
39) 4-Chloroaniline	5.618	127	906823	49.90	ppm	100
40) 2,3-Dichloroaniline	6.297	161	788092	50.00	ppm	100
41) Hydroquinone	5.837	110	686198	50.00	ppm	100
42) Hexachlorobutadiene	5.672	225	438147	50.00	ppm	100
43) 4-Chloro-3-methylphenol	5.955	107	681029	49.91	ppm	100
44) 2-Methylnaphthalene	6.083	141	1266304	50.00	ppm	100
45) 1-Methylnaphthalene	6.158	142	1346766	50.00	ppm	100
47) Hexachlorocyclopentadiene	6.201	237	883218	99.79	ppm	100
48) 1,2,4,5-tetrachloroben...	6.211	216	731150	50.00	ppm	100
49) 2,4,6-Trichlorophenol	6.297	196	495975	50.00	ppm	100
50) 2,4,5-Trichlorophenol	6.324	196	503427	49.92	ppm	100
52) 2-Chloronaphthalene	6.473	162	1374298	50.00	ppm	100
53) Biphenyl	6.452	154	1789687	49.80	ppm	100
54) 2-Nitroaniline	6.548	65	455430	50.00	ppm	100
55) Dimethylphthalate	6.714	163	1563083	49.90	ppm	100
56) Acenaphthylene	6.842	152	1665779	50.00	ppm	100
57) 2,6-Dinitrotoluene	6.767	165	339257	50.00	ppm	100
58) 3-Nitroaniline	6.927	138	363934	50.00	ppm	100
59) Acenaphthene	7.007	153	1381345	50.00	ppm	100
60) 2,4-Dinitrophenol	7.034	184	521758	100.00	ppm	100
61) 4-Nitrophenol	7.077	109	280722	50.00	ppm	100
62) Dibenzofuran	7.189	168	1907272	50.00	ppm	100
63) 2,4-Dinitrotoluene	7.168	165	472478	50.00	ppm	100
64) 2,3,4,6-Tetrachlorophenol	7.312	232	417947	50.00	ppm	100
65) Diethylphthalate	7.446	149	1590477	50.00	ppm	100
66) Fluorene	7.574	166	1580847	50.00	ppm	100
67) 4-Chlorophenyl-phenyle...	7.574	204	792151	50.00	ppm	100
68) 4-Nitroaniline	7.590	138	380426	50.00	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200134.D
Acq On : 26 Jun 2021 4:51 am
Operator : chriss2
Sample : icc8747-50
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 08:37:35 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration

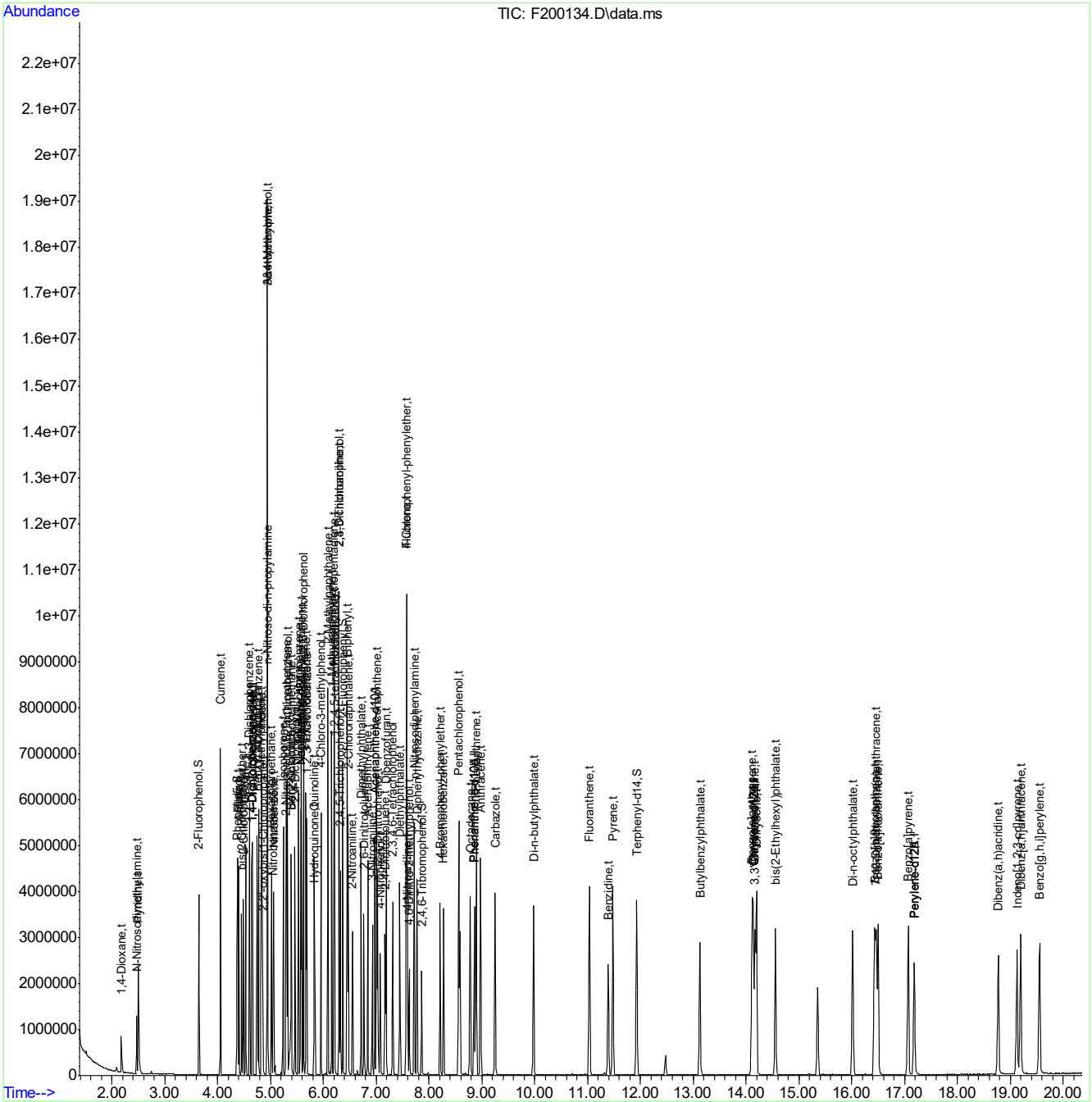
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4,6-Dinitro-2-methylph...	7.622	198	297717	50.00	ppm	100
71) n-Nitrosodiphenylamine	7.718	169	1373867	50.00	ppm	100
72) 1,2-Diphenylhydrazine	7.771	77	1734135	50.00	ppm	100
74) 4-Bromophenyl-phenylether	8.209	248	461195	50.00	ppm	100
75) Hexachlorobenzene	8.274	284	502068	50.00	ppm	100
76) Pentachlorophenol	8.562	266	722681	100.00	ppm	100
77) Phenanthrene	8.893	178	2235330	50.00	ppm	100
78) Anthracene	8.973	178	2289045	50.00	ppm	100
79) Carbazole	9.251	167	2039483	50.00	ppm	100
80) Di-n-butylphthalate	9.978	149	2622749	50.00	ppm	100
81) Fluoranthene	11.035	202	2449165	50.00	ppm	100
82) Octadecane	8.781	57	847649	50.00	ppm	100
84) Benzidine	11.388	184	1333032	50.00	ppm	100
85) Pyrene	11.479	202	2548525	50.00	ppm	100
87) Butylbenzylphthalate	13.124	149	1120862	50.00	ppm	100
88) Benzo[a]anthracene	14.113	228	2328731	50.00	ppm	100
89) 3,3'-Dichlorobenzidine	14.166	252	883647	50.00	ppm	100
90) Chrysene	14.193	228	2297738	50.00	ppm	100
91) bis(2-Ethylhexyl)phtha...	14.551	149	1558928	50.00	ppm	100
93) Di-n-octylphthalate	16.014	149	2655750	49.97	ppm	100
94) Benzo[b]fluoranthene	16.431	252	2247971	50.00	ppm	100
95) Benzo[k]fluoranthene	16.495	252	2233074	49.93	ppm	98
96) Benzo[a]pyrene	17.067	252	2119520	50.00	ppm	100
97) Indeno[1,2,3-cd]pyrene	19.129	276	1884372	50.00	ppm	100
98) Dibenz(a,h)acridine	18.771	279	1758160	50.00	ppm	100
99) Dibenz[a,h]anthracene	19.193	278	2056236	49.63	ppm	100
100) 7,12-Dimethylbenz(a)an...	16.458	256	1016057	50.00	ppm	100
101) Benzo[g,h,i]perylene	19.551	276	2063924	49.23	ppm	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200134.D
Acq On : 26 Jun 2021 4:51 am
Operator : chriss2
Sample : icc8747-50
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 08:37:35 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200135.D
Acq On : 26 Jun 2021 5:17 am
Operator : chriss2
Sample : ic8747-80
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 08:40:09 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	449175	40.00	ppm	0.00
24) Naphthalene-d8	5.570	136	1735915	40.00	ppm	0.00
46) Acenaphthene-d10	6.975	164	991535	40.00	ppm	0.00
69) Phenanthrene-d10	8.856	188	1746255	40.00	ppm	0.00
83) Chrysene-d12	14.144	240	1641380	40.00	ppm	0.01
92) Perylene-d12	17.184	264	1522613	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.646	152	449175	40.00	ppm	0.00
112) Naphthalene-d8A	5.570	136	1735915	40.00	ppm	0.00
121) Acenaphthene-d10A	6.975	164	991535	40.00	ppm	0.00
132) Phenanthrene-d10A	8.856	188	1746255	40.00	ppm	0.00
147) Chrysene-d12A	14.144	240	1641380	40.00	ppm	0.01
154) Perylene-d12A	17.184	264	1522613	40.00	ppm	0.00
157) 1,4-Dichlorobenzene-d4b	4.646	152	449175	40.00	ppm	0.00
159) Phenanthrene-d10b	8.856	188	1746255	40.00	ppm	0.00
161) Naphthalene-d8b	5.570	136	1735915	40.00	ppm	0.00
163) Naphthalene-d8c	5.570	136	1735915	40.00	ppm	0.00
168) 1,4-Dichlorobenzene-d4c	4.646	152	449175	40.00	ppm	0.00
170) Chrysene-d12c	14.144	240	1641380	40.00	ppm	0.01
172) Chrysene-d12d	14.144	240	1641380	40.00	ppm	0.01
174) Naphthalene-d8d	5.570	136	1735915	40.00	ppm	0.00
176) Chrysene-d12e	14.144	240	1641380	40.00	ppm	0.01
178) Perylene-d12b	17.184	264	1522613	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.647	112	1163179	81.17	ppm	0.00
Spiked Amount 50.000			Recovery = 162.34%			
8) Phenol-d5	4.373	99	1573053	83.45	ppm	0.00
Spiked Amount 50.000			Recovery = 166.90%			
25) Nitrobenzene-d5	5.052	82	1409463	79.67	ppm	0.00
Spiked Amount 50.000			Recovery = 159.34%			
51) 2-Fluorobiphenyl	6.371	172	2747104	79.85	ppm	0.00
Spiked Amount 50.000			Recovery = 159.70%			
73) 2,4,6-Tribromophenol	7.867	330	399011	77.52	ppm	0.00
Spiked Amount 50.000			Recovery = 155.04%			
86) Terphenyl-d14	11.933	244	3209737	79.81	ppm	0.00
Spiked Amount 50.000			Recovery = 159.62%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.183	88	480940	80.76	ppm	98
3) Pyridine	2.504	79	1338554	81.87	ppm	96
4) N-Nitrosodimethylamine	2.472	42	662586	80.64	ppm	98
6) Indene	4.838	116	2148095	83.28	ppm	98
7) Cumene	4.053	105	3121292	81.79	ppm	99
9) Phenol	4.384	94	1598516	82.72	ppm	97
10) Aniline	4.405	93	1983566	83.18	ppm	97
11) bis(2-Chloroethyl)ether	4.454	93	1138237	82.75	ppm	95
12) 2-Chlorophenol	4.491	128	1247708	82.91	ppm	97
13) Decane	4.534	43	1035320	81.70	ppm	96
14) 1,3-Dichlorobenzene	4.603	146	1429694	82.48	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200135.D
Acq On : 26 Jun 2021 5:17 am
Operator : chriss2
Sample : ic8747-80
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 08:40:09 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 1,4-Dichlorobenzene	4.662	146	1438506	82.03	ppm	99
16) Benzyl alcohol	4.747	108	858967	85.79	ppm	97
17) 1,2-Dichlorobenzene	4.769	146	1341323	82.11	ppm	97
18) Acetophenone	4.945	105	1911554	83.26	ppm	94
19) 2-Methylphenol	4.827	108	1167482	73.84	ppm	98
20) 2,2'-oxybis(1-Chloropr...	4.849	121	325862	82.11	ppm	96
21) 3&4-Methylphenol	4.945	108	2651057	168.66	ppm	99
22) n-Nitroso-di-n-propyla...	4.950	70	917746	80.59	ppm	98
23) Hexachloroethane	5.020	201	524498	81.51	ppm	94
26) Nitrobenzene	5.068	77	1446205	80.59	ppm	97
27) Quinoline	5.832	129	2306278	81.33	ppm	99
28) Isophorone	5.244	82	2579295	81.11	ppm	97
29) 2-Nitrophenol	5.298	139	684757	82.54	ppm	81
30) 2,4-Dimethylphenol	5.319	107	1397051	81.96	ppm	96
31) Benzoic acid	5.415	105	974681	80.65	ppm	95
32) bis(2-Chloroethoxy)met...	5.394	93	1441150	81.75	ppm	99
33) 2,4-Dichlorophenol	5.463	162	1057677	83.46	ppm	95
34) 2,6-Dichlorophenol	5.629	162	1083182	83.06	ppm	96
35) 1,3,5-Trichlorobenzene	5.303	180	1244240	82.44	ppm	98
36) 1,2,4-Trichlorobenzene	5.527	180	1179962	82.33	ppm	99
37) 1,2,3-Trichlorobenzene	5.688	180	1110864	82.50	ppm	98
38) Naphthalene	5.586	128	3698017	80.64	ppm	98
39) 4-Chloroaniline	5.623	127	1573638	84.49	ppm	94
40) 2,3-Dichloroaniline	6.302	161	1336287	82.72	ppm	95
41) Hydroquinone	5.843	110	1185572	84.29	ppm	96
42) Hexachlorobutadiene	5.672	225	739711	82.36	ppm	98
43) 4-Chloro-3-methylphenol	5.960	107	1148808	82.14	ppm	94
44) 2-Methylnaphthalene	6.083	141	2202657	84.86	ppm	97
45) 1-Methylnaphthalene	6.158	142	2290454	82.97	ppm	99
47) Hexachlorocyclopentadiene	6.206	237	1511259	161.77	ppm	97
48) 1,2,4,5-tetrachloroben...	6.211	216	1262827	81.81	ppm	99
49) 2,4,6-Trichlorophenol	6.297	196	865931	82.70	ppm	99
50) 2,4,5-Trichlorophenol	6.323	196	848732	79.74	ppm	96
52) 2-Chloronaphthalene	6.473	162	2326851	80.20	ppm	97
53) Biphenyl	6.452	154	3048896	80.38	ppm	97
54) 2-Nitroaniline	6.553	65	753816	78.40	ppm	93
55) Dimethylphthalate	6.719	163	2600512	78.65	ppm	98
56) Acenaphthylene	6.842	152	2852435	81.11	ppm	99
57) 2,6-Dinitrotoluene	6.772	165	568554	79.38	ppm	93
58) 3-Nitroaniline	6.932	138	620688	80.79	ppm	91
59) Acenaphthene	7.012	153	2279367	78.16	ppm	95
60) 2,4-Dinitrophenol	7.039	184	897833	163.02	ppm	97
61) 4-Nitrophenol	7.082	109	469949	79.30	ppm	99
62) Dibenzofuran	7.189	168	3283308	81.54	ppm	99
63) 2,4-Dinitrotoluene	7.173	165	797934	80.00	ppm	99
64) 2,3,4,6-Tetrachlorophenol	7.312	232	699799	79.31	ppm	95
65) Diethylphthalate	7.451	149	2707313	80.63	ppm	99
66) Fluorene	7.573	166	2785854	83.47	ppm	99
67) 4-Chlorophenyl-phenyle...	7.579	204	1354525	81.00	ppm	95
68) 4-Nitroaniline	7.600	138	635992	79.19	ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200135.D
Acq On : 26 Jun 2021 5:17 am
Operator : chriss2
Sample : ic8747-80
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 08:40:09 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration

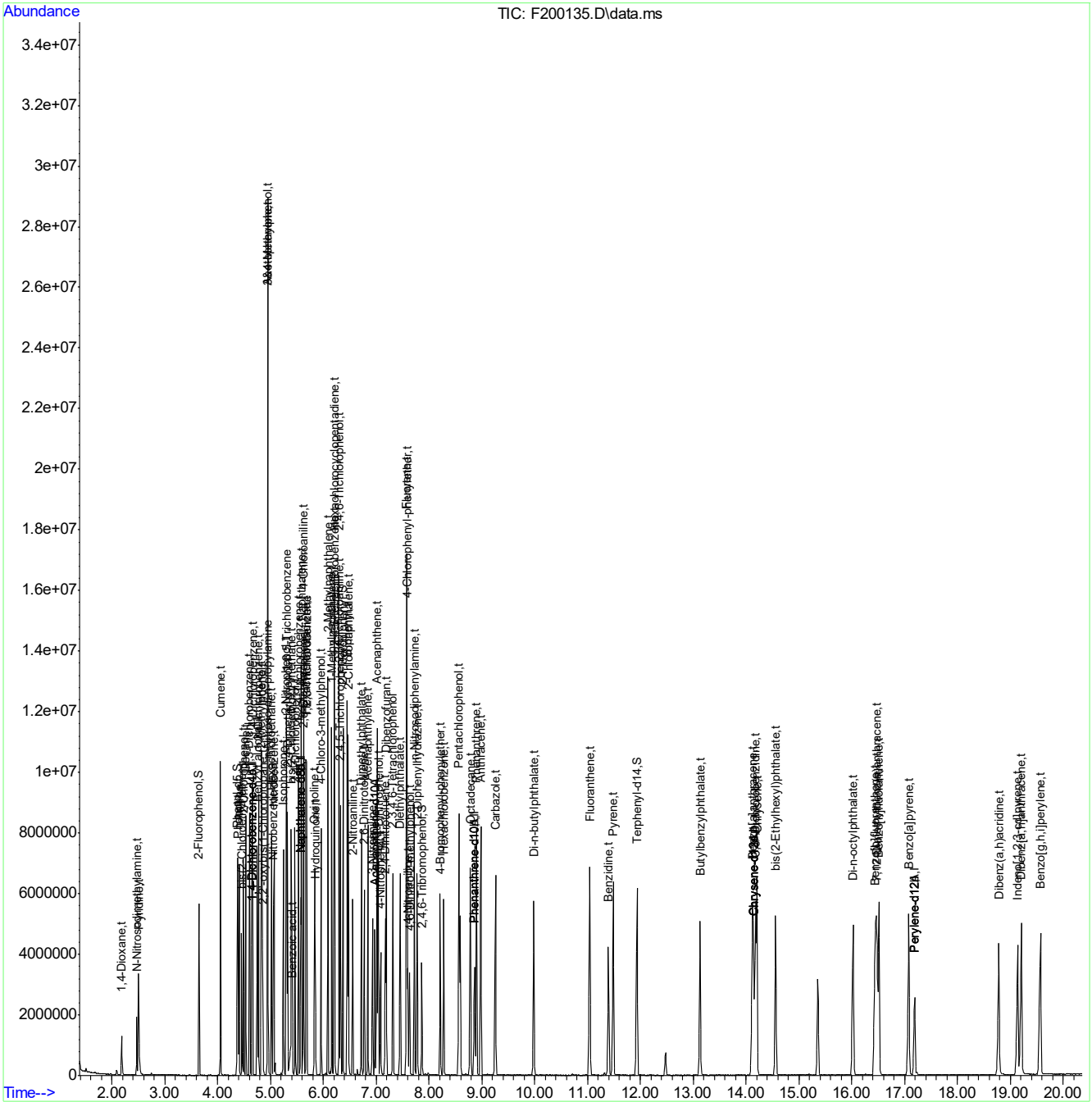
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4,6-Dinitro-2-methylph...	7.632	198	507088	81.66	ppm	87
71) n-Nitrosodiphenylamine	7.723	169	2339594	81.65	ppm	98
72) 1,2-Diphenylhydrazine	7.771	77	2889949	79.90	ppm	98
74) 4-Bromophenyl-phenylether	8.214	248	782118	81.31	ppm	95
75) Hexachlorobenzene	8.279	284	846882	80.87	ppm	96
76) Pentachlorophenol	8.567	266	1231186	163.36	ppm	98
77) Phenanthrene	8.898	178	3735112	80.11	ppm	100
78) Anthracene	8.978	178	3920157	82.11	ppm	99
79) Carbazole	9.256	167	3416748	80.32	ppm	98
80) Di-n-butylphthalate	9.983	149	4474909	81.80	ppm	99
81) Fluoranthene	11.041	202	4159969	81.44	ppm	99
82) Octadecane	8.781	57	1409720	79.74	ppm	99
84) Benzidine	11.393	184	2343445	82.80	ppm	99
85) Pyrene	11.489	202	4205056	77.72	ppm	98
87) Butylbenzylphthalate	13.124	149	1882918	79.12	ppm	99
88) Benzo[a]anthracene	14.123	228	3999067	80.88	ppm	97
89) 3,3'-Dichlorobenzidine	14.176	252	1535479	81.84	ppm	98
90) Chrysene	14.203	228	3910712	80.16	ppm	100
91) bis(2-Ethylhexyl)phtha...	14.556	149	2680433	80.99	ppm	100
93) Di-n-octylphthalate	16.019	149	4567218	82.69	ppm	100
94) Benzo[b]fluoranthene	16.442	252	3935053	84.21	ppm	96
95) Benzo[k]fluoranthene	16.511	252	3680795	79.18	ppm	99
96) Benzo[a]pyrene	17.077	252	3682189	83.57	ppm	98
97) Indeno[1,2,3-cd]pyrene	19.139	276	3196345	81.60	ppm	98
98) Dibenz(a,h)acridine	18.781	279	3049729	83.45	ppm	99
99) Dibenz[a,h]anthracene	19.209	278	3519791	81.74	ppm	97
100) 7,12-Dimethylbenz(a)an...	16.474	256	1786301	84.57	ppm	97
101) Benzo[g,h,i]perylene	19.567	276	3583650	82.24	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200135.D
Acq On : 26 Jun 2021 5:17 am
Operator : chriss2
Sample : ic8747-80
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 08:40:09 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200136.D
Acq On : 26 Jun 2021 5:43 am
Operator : chriss2
Sample : ic8747-100
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 08:42:10 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	428518	40.00	ppm	0.00
24) Naphthalene-d8	5.570	136	1661750	40.00	ppm	0.00
46) Acenaphthene-d10	6.981	164	938609	40.00	ppm	0.00
69) Phenanthrene-d10	8.861	188	1755073	40.00	ppm	0.00
83) Chrysene-d12	14.145	240	1665320	40.00	ppm	0.01
92) Perylene-d12	17.190	264	1571759	40.00	ppm	0.01
102) 1,4-Dichlorobenzene-d4A	4.646	152	428518	40.00	ppm	0.00
112) Naphthalene-d8A	5.570	136	1661750	40.00	ppm	0.00
121) Acenaphthene-d10A	6.981	164	938609	40.00	ppm	0.00
132) Phenanthrene-d10A	8.861	188	1755073	40.00	ppm	0.00
147) Chrysene-d12A	14.145	240	1665320	40.00	ppm	0.01
154) Perylene-d12A	17.190	264	1571759	40.00	ppm	0.01
157) 1,4-Dichlorobenzene-d4b	4.646	152	428518	40.00	ppm	0.00
159) Phenanthrene-d10b	8.861	188	1755073	40.00	ppm	0.00
161) Naphthalene-d8b	5.570	136	1661750	40.00	ppm	0.00
163) Naphthalene-d8c	5.570	136	1661750	40.00	ppm	0.00
168) 1,4-Dichlorobenzene-d4c	4.646	152	428518	40.00	ppm	0.00
170) Chrysene-d12c	14.145	240	1665320	40.00	ppm	0.01
172) Chrysene-d12d	14.145	240	1665320	40.00	ppm	0.01
174) Naphthalene-d8d	5.570	136	1661750	40.00	ppm	0.00
176) Chrysene-d12e	14.145	240	1665320	40.00	ppm	0.01
178) Perylene-d12b	17.190	264	1571759	40.00	ppm	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.652	112	1408334	103.02	ppm	0.00
Spiked Amount 50.000			Recovery = 206.04%			
8) Phenol-d5	4.374	99	1905387	105.95	ppm	0.00
Spiked Amount 50.000			Recovery = 211.90%			
25) Nitrobenzene-d5	5.052	82	1705164	100.69	ppm	0.00
Spiked Amount 50.000			Recovery = 201.38%			
51) 2-Fluorobiphenyl	6.372	172	3425619	105.18	ppm	0.00
Spiked Amount 50.000			Recovery = 210.36%			
73) 2,4,6-Tribromophenol	7.868	330	519149	100.35	ppm	0.00
Spiked Amount 50.000			Recovery = 200.70%			
86) Terphenyl-d14	11.933	244	4168537	102.16	ppm	0.00
Spiked Amount 50.000			Recovery = 204.32%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.183	88	556611	97.98	ppm	98
3) Pyridine	2.504	79	1589406	101.89	ppm	97
4) N-Nitrosodimethylamine	2.477	42	776379	99.05	ppm	100
6) Indene	4.838	116	2632128	106.96	ppm	98
7) Cumene	4.053	105	3765503	103.43	ppm	100
9) Phenol	4.384	94	1992618	108.08	ppm	89
10) Aniline	4.406	93	2405735	105.75	ppm	89
11) bis(2-Chloroethyl)ether	4.459	93	1389943	105.91	ppm	98
12) 2-Chlorophenol	4.491	128	1505059	104.83	ppm	96
13) Decane	4.534	43	1268581	104.93	ppm	98
14) 1,3-Dichlorobenzene	4.609	146	1729219	104.56	ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200136.D
Acq On : 26 Jun 2021 5:43 am
Operator : chriss2
Sample : ic8747-100
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 08:42:10 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
15) 1,4-Dichlorobenzene	4.662	146	1773689	106.01	ppm		99
16) Benzyl alcohol	4.753	108	1018526	106.63	ppm		97
17) 1,2-Dichlorobenzene	4.769	146	1661727	106.62	ppm		100
18) Acetophenone	4.945	105	2291307	104.61	ppm		92
19) 2-Methylphenol	4.828	108	1418949	94.07	ppm		99
20) 2,2'-oxybis(1-Chloropr...	4.849	121	403851	106.67	ppm		96
21) 3&4-Methylphenol	4.945	108	3272031	218.20	ppm		99
22) n-Nitroso-di-n-propyla...	4.951	70	1101362	101.38	ppm		100
23) Hexachloroethane	5.020	201	635718	103.56	ppm		94
26) Nitrobenzene	5.068	77	1715226	99.84	ppm		98
27) Quinoline	5.832	129	2877074	105.99	ppm		100
28) Isophorone	5.244	82	3176228	104.35	ppm		99
29) 2-Nitrophenol	5.298	139	829423	104.44	ppm		85
30) 2,4-Dimethylphenol	5.325	107	1700801	104.23	ppm		98
31) Benzoic acid	5.426	105	1215671	105.08	ppm		96
32) bis(2-Chloroethoxy)met...	5.394	93	1744932	103.40	ppm		99
33) 2,4-Dichlorophenol	5.469	162	1295528	106.79	ppm		97
34) 2,6-Dichlorophenol	5.629	162	1320353	105.77	ppm		96
35) 1,3,5-Trichlorobenzene	5.303	180	1514393	104.82	ppm		99
36) 1,2,4-Trichlorobenzene	5.528	180	1430965	104.30	ppm		98
37) 1,2,3-Trichlorobenzene	5.688	180	1374956	106.67	ppm		98
38) Naphthalene	5.586	128	4539547	103.41	ppm		97
39) 4-Chloroaniline	5.624	127	1961441	110.02	ppm		95
40) 2,3-Dichloroaniline	6.302	161	1659410	107.31	ppm		96
41) Hydroquinone	5.848	110	1470002	109.17	ppm		95
42) Hexachlorobutadiene	5.672	225	915569	106.49	ppm		98
43) 4-Chloro-3-methylphenol	5.960	107	1431380	106.92	ppm		95
44) 2-Methylnaphthalene	6.083	141	2649416	106.63	ppm		98
45) 1-Methylnaphthalene	6.163	142	2874215	108.76	ppm		97
47) Hexachlorocyclopentadiene	6.206	237	1898267	214.65	ppm		99
48) 1,2,4,5-tetrachloroben...	6.211	216	1550983	106.15	ppm		100
49) 2,4,6-Trichlorophenol	6.297	196	1050095	105.94	ppm		99
50) 2,4,5-Trichlorophenol	6.324	196	1073401	106.53	ppm		96
52) 2-Chloronaphthalene	6.473	162	2865752	104.34	ppm		98
53) Biphenyl	6.457	154	3767029	104.91	ppm		99
54) 2-Nitroaniline	6.553	65	934503	102.68	ppm		92
55) Dimethylphthalate	6.719	163	3330875	106.42	ppm		98
56) Acenaphthylene	6.842	152	3581543	107.59	ppm		99
57) 2,6-Dinitrotoluene	6.772	165	718050	105.91	ppm		93
58) 3-Nitroaniline	6.938	138	782502	107.59	ppm		86
59) Acenaphthene	7.013	153	2894390	104.85	ppm		98
60) 2,4-Dinitrophenol	7.039	184	1160396	222.57	ppm	#	84
61) 4-Nitrophenol	7.088	109	589969	105.16	ppm		96
62) Dibenzofuran	7.194	168	4086552	107.21	ppm		96
63) 2,4-Dinitrotoluene	7.173	165	1027502	108.82	ppm		95
64) 2,3,4,6-Tetrachlorophenol	7.312	232	895356	107.20	ppm		95
65) Diethylphthalate	7.451	149	3381307	106.38	ppm		99
66) Fluorene	7.574	166	3475616	110.01	ppm		99
67) 4-Chlorophenyl-phenyle...	7.579	204	1712162	108.15	ppm		92
68) 4-Nitroaniline	7.606	138	800965	105.35	ppm		100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200136.D
Acq On : 26 Jun 2021 5:43 am
Operator : chriss2
Sample : ic8747-100
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 08:42:10 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration

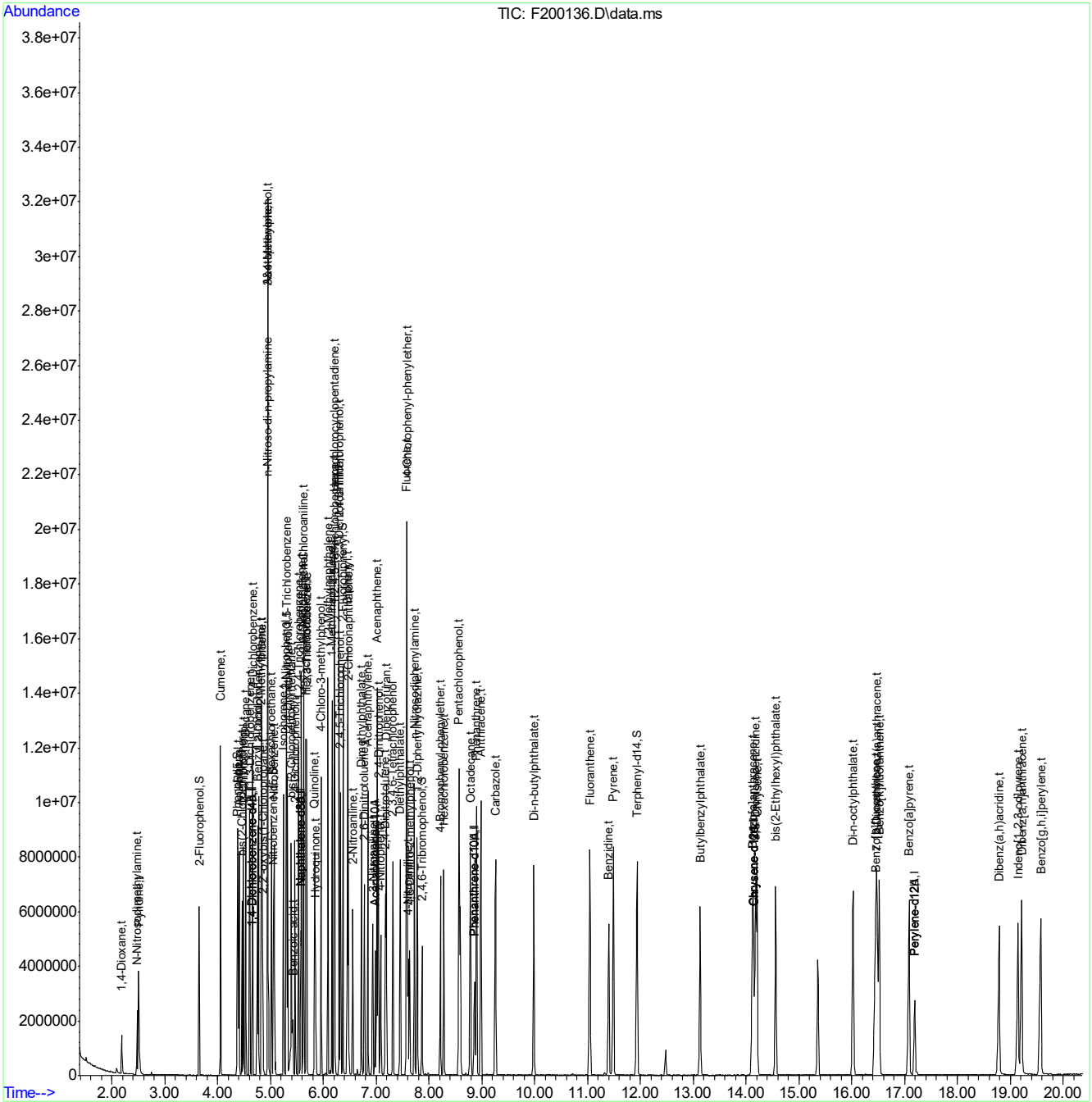
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4,6-Dinitro-2-methylph...	7.632	198	650245	104.19	ppm	94
71) n-Nitrosodiphenylamine	7.723	169	2956148	102.64	ppm	99
72) 1,2-Diphenylhydrazine	7.777	77	3618523	99.54	ppm	99
74) 4-Bromophenyl-phenylether	8.215	248	1004968	103.95	ppm	96
75) Hexachlorobenzene	8.279	284	1074296	102.07	ppm	99
76) Pentachlorophenol	8.567	266	1570751	207.37	ppm	99
77) Phenanthrene	8.899	178	4798446	102.40	ppm	99
78) Anthracene	8.984	178	4968947	103.55	ppm	99
79) Carbazole	9.257	167	4456078	104.23	ppm	99
80) Di-n-butylphthalate	9.983	149	5672463	103.17	ppm	99
81) Fluoranthene	11.041	202	5325688	103.73	ppm	99
82) Octadecane	8.781	57	1778601	100.10	ppm	99
84) Benzidine	11.399	184	3226240	112.36	ppm	99
85) Pyrene	11.490	202	5482079	99.86	ppm	100
87) Butylbenzylphthalate	13.130	149	2406719	99.68	ppm	98
88) Benzo[a]anthracene	14.123	228	5152508	102.72	ppm	97
89) 3,3'-Dichlorobenzidine	14.177	252	1994113	104.76	ppm	98
90) Chrysene	14.209	228	5084281	102.72	ppm	98
91) bis(2-Ethylhexyl)phtha...	14.556	149	3483801	103.74	ppm	100
93) Di-n-octylphthalate	16.020	149	6011120	105.42	ppm	100
94) Benzo[b]fluoranthene	16.447	252	5141714	106.59	ppm	99
95) Benzo[k]fluoranthene	16.517	252	4788513	99.79	ppm	98
96) Benzo[a]pyrene	17.083	252	4756438	104.58	ppm	98
97) Indeno[1,2,3-cd]pyrene	19.145	276	4205464	104.01	ppm	99
98) Dibenz(a,h)acridine	18.787	279	3949801	104.69	ppm	99
99) Dibenz[a,h]anthracene	19.214	278	4610839	103.73	ppm	97
100) 7,12-Dimethylbenz(a)an...	16.474	256	2359030	108.20	ppm	100
101) Benzo[g,h,i]perylene	19.578	276	4664594	103.70	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200136.D
Acq On : 26 Jun 2021 5:43 am
Operator : chriss2
Sample : ic8747-100
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 08:42:10 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 08:35:14 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200137.D
Acq On : 26 Jun 2021 6:09 am
Operator : chriss2
Sample : icv8747-50
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 28 09:17:25 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 09:09:49 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	4.646	152	502652	40.00	ppm		0.00
24) Naphthalene-d8	5.570	136	1954999	40.00	ppm		0.00
46) Acenaphthene-d10	6.975	164	1111001	40.00	ppm		0.00
69) Phenanthrene-d10	8.855	188	2034629	40.00	ppm		0.00
83) Chrysene-d12	14.139	240	1889603	40.00	ppm		0.00
92) Perylene-d12	17.179	264	1437832	40.00	ppm		0.00
102) 1,4-Dichlorobenzene-d4A	4.646	152	502652	40.00	ppm		0.00
112) Naphthalene-d8A	5.570	136	1954999	40.00	ppm		0.00
121) Acenaphthene-d10A	6.975	164	1111001	40.00	ppm		0.00
132) Phenanthrene-d10A	8.855	188	2034629	40.00	ppm		0.00
147) Chrysene-d12A	14.139	240	1889603	40.00	ppm		0.00
154) Perylene-d12A	17.179	264	1437832	40.00	ppm		0.00
157) 1,4-Dichlorobenzene-d4b	4.646	152	502652	40.00	ppm		0.00
159) Phenanthrene-d10b	8.855	188	2034629	40.00	ppm		0.00
161) Naphthalene-d8b	5.570	136	1954999	40.00	ppm		0.00
163) Naphthalene-d8c	5.570	136	1954999	40.00	ppm		0.00
168) 1,4-Dichlorobenzene-d4c	4.646	152	502652	40.00	ppm		0.00
170) Chrysene-d12c	14.139	240	1889603	40.00	ppm		0.00
172) Chrysene-d12d	14.139	240	1889603	40.00	ppm		0.00
174) Naphthalene-d8d	5.570	136	1954999	40.00	ppm		0.00
176) Chrysene-d12e	14.139	240	1889603	40.00	ppm		0.00
178) Perylene-d12b	17.179	264	1437832	40.00	ppm		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	0.000	112	0d	0.00	ppm		
Spiked Amount 50.000			Recovery =	0.00%			
8) Phenol-d5	0.000	99	0d	0.00	ppm		
Spiked Amount 50.000			Recovery =	0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm		
Spiked Amount 50.000			Recovery =	0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm		
Spiked Amount 50.000			Recovery =	0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ppm		
Spiked Amount 50.000			Recovery =	0.00%			
86) Terphenyl-d14	0.000	244	0d	0.00	ppm		
Spiked Amount 50.000			Recovery =	0.00%			
Target Compounds							Qvalue
2) 1,4-Dioxane	2.183	88	280026	40.65	ppm		99
6) Indene	4.833	116	1349266	47.61	ppm		100
7) Cumene	4.053	105	1903013	46.29	ppm		99
11) bis(2-Chloroethyl)ether	4.453	93	706250	45.58	ppm		98
13) Decane	4.528	43	631416	44.07	ppm		99
14) 1,3-Dichlorobenzene	4.603	146	882148	45.87	ppm		99
15) 1,4-Dichlorobenzene	4.662	146	877812	44.85	ppm		99
16) Benzyl alcohol	4.747	108	501507	46.14	ppm		94
17) 1,2-Dichlorobenzene	4.769	146	823997	45.34	ppm		97
18) Acetophenone	4.940	105	1093528	44.60	ppm	#	63
20) 2,2'-oxybis(1-Chloropr...	4.849	121	200475	44.43	ppm	#	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200137.D
Acq On : 26 Jun 2021 6:09 am
Operator : chriss2
Sample : icv8747-50
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 28 09:17:25 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 09:09:49 2021
Response via : Initial Calibration

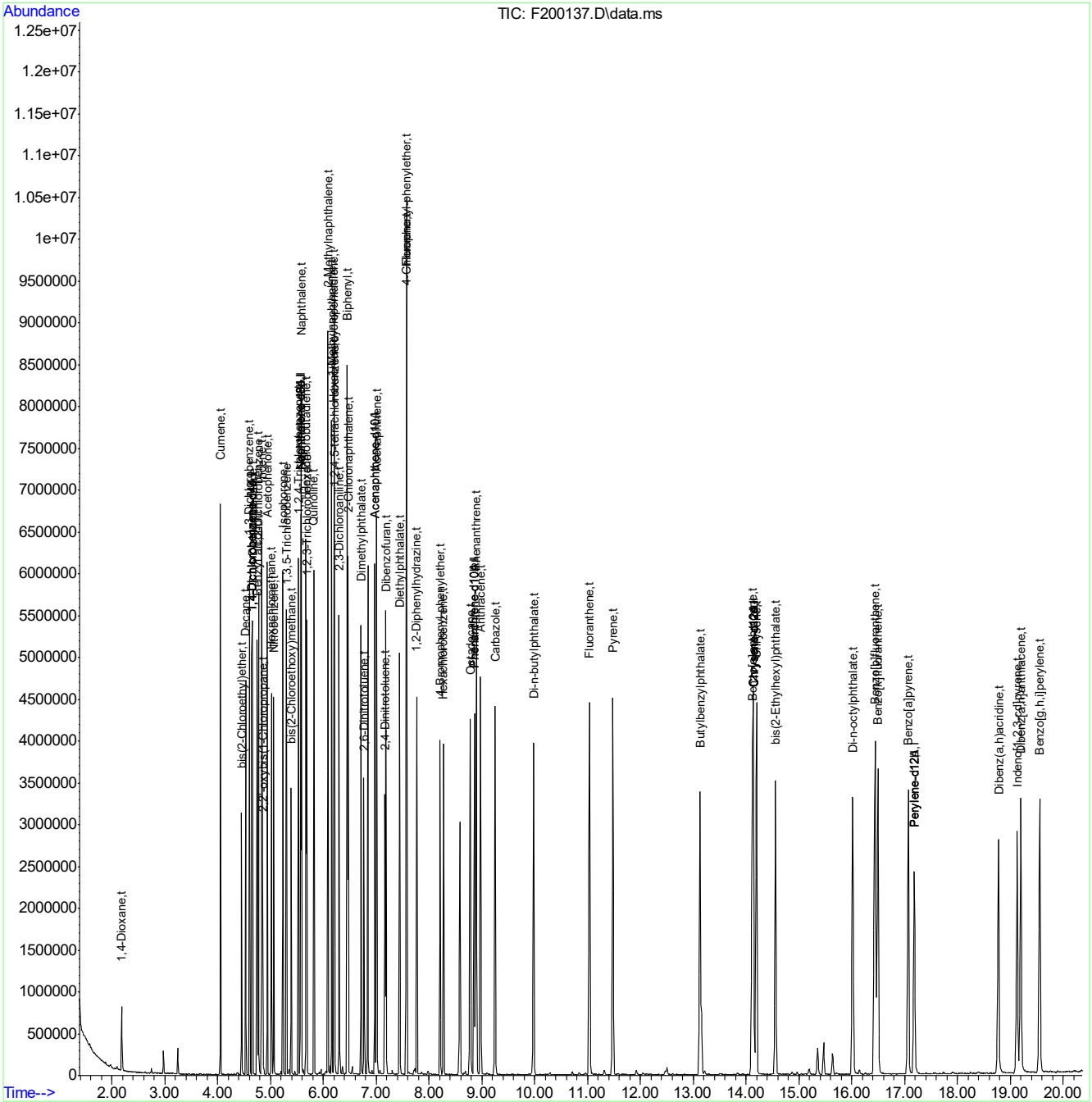
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23)	Hexachloroethane	5.020	201	324081	46.16	ppm	97
26)	Nitrobenzene	5.062	77	873745	44.55	ppm	96
27)	Quinoline	5.821	129	1461085	47.51	ppm	98
28)	Isophorone	5.233	82	1621164	48.12	ppm	97
32)	bis(2-Chloroethoxy)met...	5.388	93	884800	46.35	ppm	98
35)	1,3,5-Trichlorobenzene	5.303	180	765857	46.01	ppm	99
36)	1,2,4-Trichlorobenzene	5.527	180	727047	45.30	ppm	98
37)	1,2,3-Trichlorobenzene	5.688	180	693231	46.78	ppm	99
38)	Naphthalene	5.586	128	2295751	46.60	ppm	99
40)	2,3-Dichloroaniline	6.297	161	775935	44.58	ppm	96
42)	Hexachlorobutadiene	5.671	225	463495	46.34	ppm	99
44)	2-Methylnaphthalene	6.083	141	1332756	46.82	ppm	99
45)	1-Methylnaphthalene	6.158	142	1428811	46.76	ppm	99
47)	Hexachlorocyclopentadiene	6.200	237	810403	83.19	ppm	100
48)	1,2,4,5-tetrachloroben...	6.211	216	757092	44.88	ppm	99
52)	2-Chloronaphthalene	6.467	162	1475975	46.83	ppm	96
53)	Biphenyl	6.451	154	1888927	46.21	ppm	98
55)	Dimethylphthalate	6.713	163	1687288	47.41	ppm	99
57)	2,6-Dinitrotoluene	6.772	165	369086	52.46	ppm	86
59)	Acenaphthene	7.007	153	1461235	46.03	ppm	92
62)	Dibenzofuran	7.189	168	2050605	46.04	ppm	96
63)	2,4-Dinitrotoluene	7.162	165	488965	47.83	ppm	89
65)	Diethylphthalate	7.440	149	1714335	47.83	ppm	99
66)	Fluorene	7.568	166	1720290	47.33	ppm	99
67)	4-Chlorophenyl-phenyle...	7.573	204	834121	46.02	ppm	98
72)	1,2-Diphenylhydrazine	7.766	77	1836202	46.54	ppm	100
74)	4-Bromophenyl-phenylether	8.209	248	503869	46.90	ppm	98
75)	Hexachlorobenzene	8.273	284	538044	45.50	ppm	99
77)	Phenanthrene	8.893	178	2427739	45.93	ppm	100
78)	Anthracene	8.973	178	2307793	44.15	ppm	99
79)	Carbazole	9.251	167	2199518	46.96	ppm	99
80)	Di-n-butylphthalate	9.977	149	2871805	49.80	ppm	99
81)	Fluoranthene	11.035	202	2711789	48.03	ppm	99
82)	Octadecane	8.781	57	900561	47.22	ppm	98
85)	Pyrene	11.478	202	2792265	47.25	ppm	99
87)	Butylbenzylphthalate	13.124	149	1240366	50.58	ppm	99
88)	Benzo[a]anthracene	14.118	228	2540971	46.36	ppm	99
90)	Chrysene	14.192	228	2518805	45.75	ppm	99
91)	bis(2-Ethylhexyl)phtha...	14.556	149	1730616	46.61	ppm	99
93)	Di-n-octylphthalate	16.014	149	2939504	56.89	ppm	100
94)	Benzo[b]fluoranthene	16.431	252	2491815	59.11	ppm	99
95)	Benzo[k]fluoranthene	16.495	252	2329811	57.26	ppm	99
96)	Benzo[a]pyrene	17.066	252	2188555	58.14	ppm	98
97)	Indeno[1,2,3-cd]pyrene	19.129	276	1990603	59.58	ppm	97
98)	Dibenz(a,h)acridine	18.776	279	1928066	58.95	ppm	100
99)	Dibenz[a,h]anthracene	19.198	278	2206073	59.85	ppm	96
101)	Benzo[g,h,i]perylene	19.556	276	2221726	57.56	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200137.D
Acq On : 26 Jun 2021 6:09 am
Operator : chriss2
Sample : icv8747-50
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 28 09:17:25 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 09:09:49 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200138.D
Acq On : 26 Jun 2021 6:35 am
Operator : chriss2
Sample : icv8747-50
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 09:50:07 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 09:09:49 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	525680	40.00	ppm	0.00
24) Naphthalene-d8	5.570	136	1945032	40.00	ppm	0.00
46) Acenaphthene-d10	6.975	164	1119994	40.00	ppm	0.00
69) Phenanthrene-d10	8.856	188	2024216	40.00	ppm	0.00
83) Chrysene-d12	14.129	240	1819238	40.00	ppm	0.00
92) Perylene-d12	17.179	264	1741764	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.646	152	525680	40.00	ppm	0.00
112) Naphthalene-d8A	5.570	136	1945032	40.00	ppm	0.00
121) Acenaphthene-d10A	6.975	164	1119994	40.00	ppm	0.00
132) Phenanthrene-d10A	8.856	188	2024216	40.00	ppm	0.00
147) Chrysene-d12A	14.129	240	1819238	40.00	ppm	0.00
154) Perylene-d12A	17.179	264	1741764	40.00	ppm	0.00
157) 1,4-Dichlorobenzene-d4b	4.646	152	525680	40.00	ppm	0.00
159) Phenanthrene-d10b	8.856	188	2024216	40.00	ppm	0.00
161) Naphthalene-d8b	5.570	136	1945032	40.00	ppm	0.00
163) Naphthalene-d8c	5.570	136	1945032	40.00	ppm	0.00
168) 1,4-Dichlorobenzene-d4c	4.646	152	525680	40.00	ppm	0.00
170) Chrysene-d12c	14.129	240	1819238	40.00	ppm	0.00
172) Chrysene-d12d	14.129	240	1819238	40.00	ppm	0.00
174) Naphthalene-d8d	5.570	136	1945032	40.00	ppm	0.00
176) Chrysene-d12e	14.129	240	1819238	40.00	ppm	0.00
178) Perylene-d12b	17.179	264	1741764	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
86) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
9) Phenol	4.374	94	1037818	47.01	ppm	89
12) 2-Chlorophenol	4.486	128	819846	47.06	ppm	93
19) 2-Methylphenol	4.822	108	759724	47.91	ppm	97
21) 3&4-Methylphenol	4.935	108	1657909	94.53	ppm	98
29) 2-Nitrophenol	5.293	139	416147	48.18	ppm	94
30) 2,4-Dimethylphenol	5.319	107	898192	48.68	ppm	97
31) Benzoic acid	5.394	105	617068	46.84	ppm	85
33) 2,4-Dichlorophenol	5.458	162	693186	50.18	ppm	93
34) 2,6-Dichlorophenol	5.624	162	680649	49.35	ppm	97
41) Hydroquinone	5.838	110	739251	50.87	ppm	97
43) 4-Chloro-3-methylphenol	5.955	107	746640	50.48	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200138.D
Acq On : 26 Jun 2021 6:35 am
Operator : chriss2
Sample : icv8747-50
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 09:50:07 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 09:09:49 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) 2,4,6-Trichlorophenol	6.297	196	532190	47.50	ppm		98
50) 2,4,5-Trichlorophenol	6.324	196	571048	50.44	ppm		94
60) 2,4-Dinitrophenol	7.029	184	582226	96.47	ppm	#	66
61) 4-Nitrophenol	7.077	109	310022	49.02	ppm		98
64) 2,3,4,6-Tetrachlorophenol	7.312	232	462462	50.12	ppm		98
70) 4,6-Dinitro-2-methylph...	7.622	198	318528	45.75	ppm		95
76) Pentachlorophenol	8.562	266	804993	102.87	ppm		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

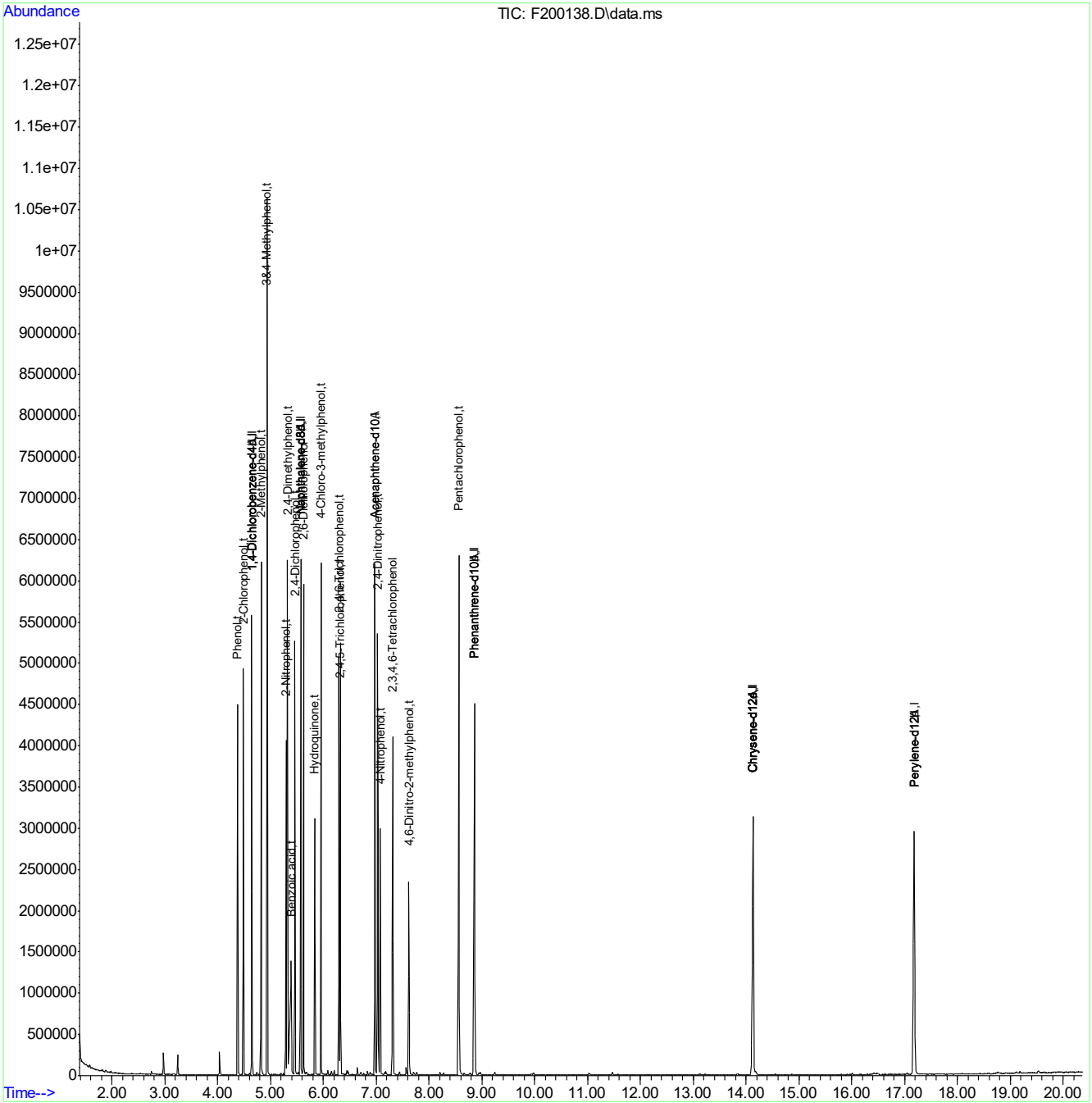
9.6.10

6

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200138.D
Acq On : 26 Jun 2021 6:35 am
Operator : chriss2
Sample : icv8747-50
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 09:50:07 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 09:09:49 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200139.D
Acq On : 26 Jun 2021 7:01 am
Operator : chriss2
Sample : icv8747-50
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 26 09:39:40 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 09:35:49 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	535504	40.00	ppm	0.00
24) Naphthalene-d8	5.570	136	2089507	40.00	ppm	0.00
46) Acenaphthene-d10	6.975	164	1162442	40.00	ppm	0.00
69) Phenanthrene-d10	8.855	188	2162438	40.00	ppm	0.00
83) Chrysene-d12	14.134	240	1973276	40.00	ppm	0.00
92) Perylene-d12	17.179	264	1882589	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.646	152	535504	40.00	ppm	0.00
112) Naphthalene-d8A	5.570	136	2089507	40.00	ppm	0.00
121) Acenaphthene-d10A	6.975	164	1162442	40.00	ppm	0.00
132) Phenanthrene-d10A	8.855	188	2162438	40.00	ppm	0.00
147) Chrysene-d12A	14.134	240	1973276	40.00	ppm	0.00
154) Perylene-d12A	17.179	264	1882589	40.00	ppm	0.00
157) 1,4-Dichlorobenzene-d4b	4.646	152	535504	40.00	ppm	0.00
159) Phenanthrene-d10b	8.855	188	2162438	40.00	ppm	0.00
161) Naphthalene-d8b	5.570	136	2089507	40.00	ppm	0.00
163) Naphthalene-d8c	5.570	136	2089507	40.00	ppm	0.00
168) 1,4-Dichlorobenzene-d4c	4.646	152	535504	40.00	ppm	0.00
170) Chrysene-d12c	14.134	240	1973276	40.00	ppm	0.00
172) Chrysene-d12d	14.134	240	1973276	40.00	ppm	0.00
174) Naphthalene-d8d	5.570	136	2089507	40.00	ppm	0.00
176) Chrysene-d12e	14.134	240	1973276	40.00	ppm	0.00
178) Perylene-d12b	17.179	264	1882589	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
3) Pyridine	2.498	79	868881	46.32	ppm	99
4) N-Nitrosodimethylamine	2.471	42	446948	45.99	ppm	98
10) Aniline	4.400	93	1347903	48.01	ppm	57
22) n-Nitroso-di-n-propyla...	4.940	70	635669	48.75	ppm	96
39) 4-Chloroaniline	5.618	127	1013961	47.03	ppm	97
54) 2-Nitroaniline	6.553	65	528174	50.91	ppm	87
58) 3-Nitroaniline	6.927	138	420296	50.71	ppm	95
68) 4-Nitroaniline	7.584	138	413561	46.72	ppm	92
71) n-Nitrosodiphenylamine	7.718	169	1568198	46.39	ppm	99
84) Benzidine	11.393	184	1921262	56.90	ppm	100
89) 3,3'-Dichlorobenzidine	14.166	252	1029515	50.29	ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200139.D
Acq On : 26 Jun 2021 7:01 am
Operator : chriss2
Sample : icv8747-50
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 26 09:39:40 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 09:35:49 2021
Response via : Initial Calibration

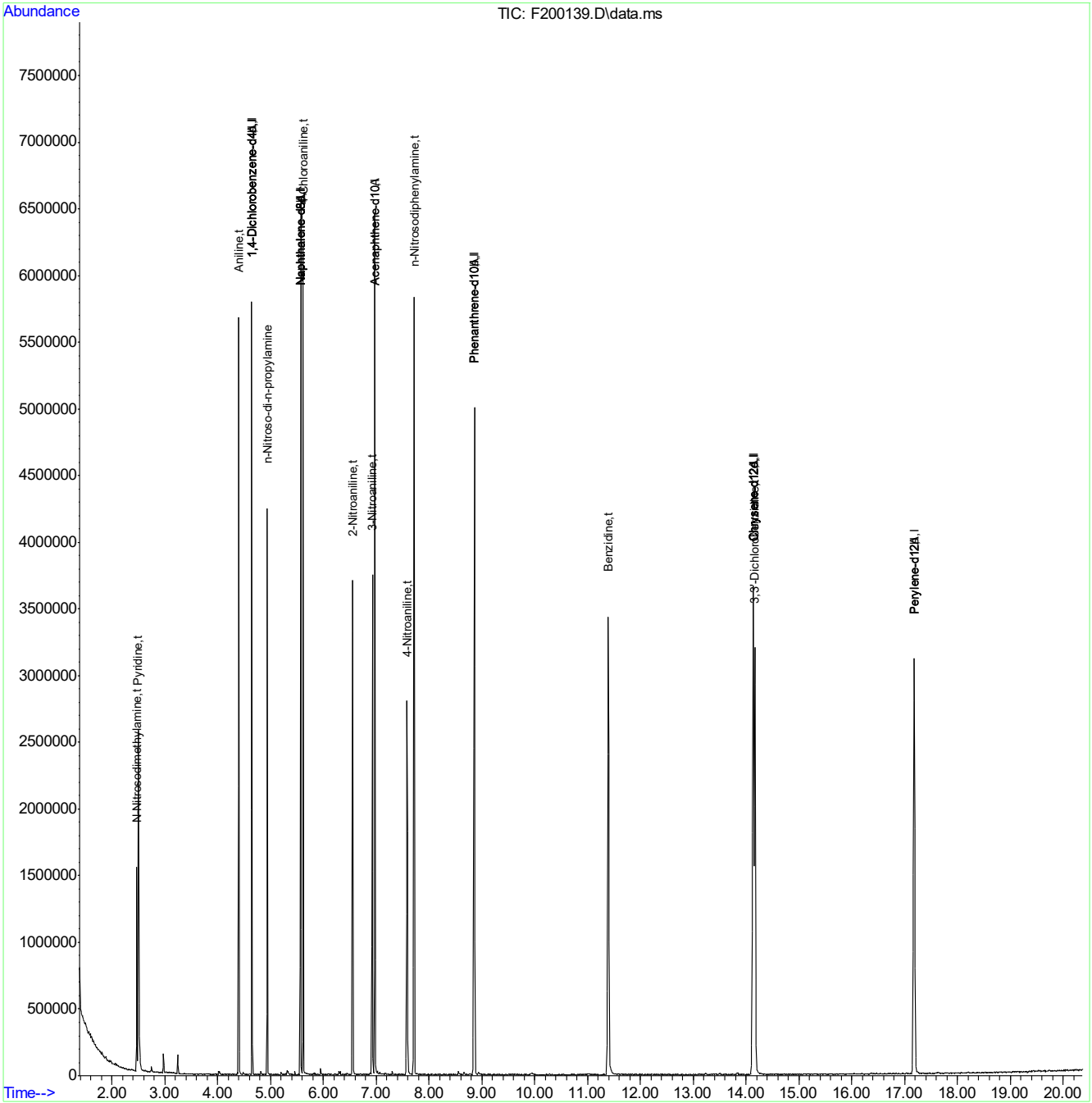
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200139.D
Acq On : 26 Jun 2021 7:01 am
Operator : chriss2
Sample : icv8747-50
Misc : op30563,ef8747,1000,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 26 09:39:40 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 09:35:49 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200142.D
Acq On : 26 Jun 2021 8:01 am
Operator : chriss2
Sample : ic8748-100
Misc : op30563,ef8748,1000,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 26 10:01:36 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 09:59:21 2021
Response via : Initial Calibration

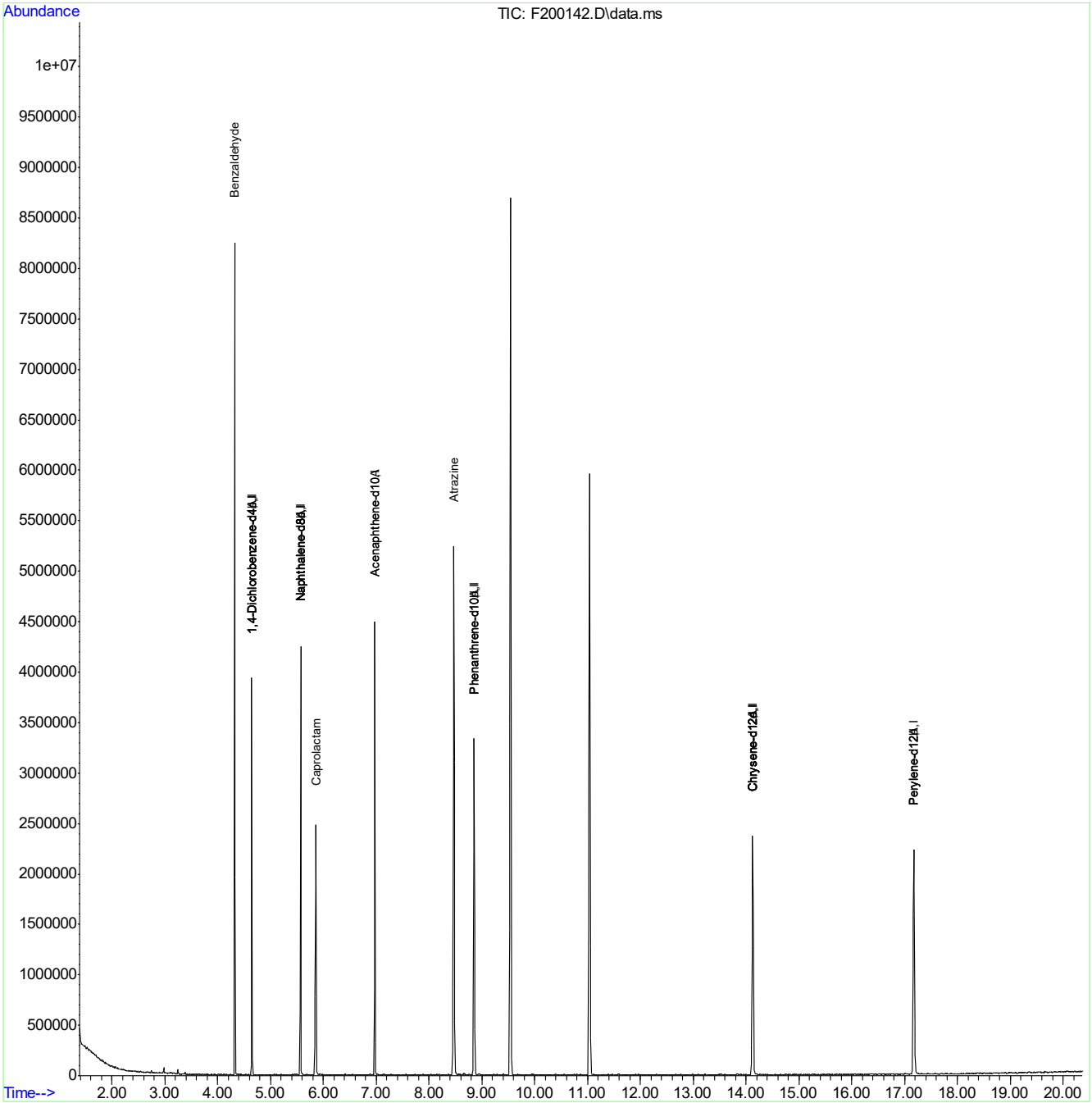
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	362119	40.00	ppm	0.00
24) Naphthalene-d8	5.570	136	1418232	40.00	ppm	0.00
46) Acenaphthene-d10	6.975	164	793696	40.00	ppm	0.00
69) Phenanthrene-d10	8.850	188	1494334	40.00	ppm	0.00
83) Chrysene-d12	14.123	240	1341775	40.00	ppm	-0.01
92) Perylene-d12	17.173	264	1273521	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.646	152	362119	40.00	ppm	0.00
112) Naphthalene-d8A	5.570	136	1418232	40.00	ppm	0.00
121) Acenaphthene-d10A	6.975	164	793696	40.00	ppm	0.00
132) Phenanthrene-d10A	8.850	188	1494334	40.00	ppm	0.00
147) Chrysene-d12A	14.123	240	1341775	40.00	ppm	-0.01
154) Perylene-d12A	17.173	264	1273521	40.00	ppm	0.00
157) 1,4-Dichlorobenzene-d4b	4.646	152	362119	40.00	ppm	0.00
159) Phenanthrene-d10b	8.850	188	1494334	40.00	ppm	0.00
161) Naphthalene-d8b	5.570	136	1418232	40.00	ppm	0.00
163) Naphthalene-d8c	5.570	136	1418232	40.00	ppm	0.00
168) 1,4-Dichlorobenzene-d4c	4.646	152	362119	40.00	ppm	0.00
170) Chrysene-d12c	14.123	240	1342001	40.00	ppm	-0.01
172) Chrysene-d12d	14.123	240	1341775	40.00	ppm	-0.01
174) Naphthalene-d8d	5.570	136	1418232	40.00	ppm	0.00
176) Chrysene-d12e	14.123	240	1341775	40.00	ppm	-0.01
178) Perylene-d12b	17.173	264	1273521	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
158) Benzaldehyde	4.325	105	1044074	110.50	ppm	92
160) Atrazine	8.471	200	810264	114.50	ppm	96
162) Caprolactam	5.864	55	425099	109.87	ppm	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200142.D
Acq On : 26 Jun 2021 8:01 am
Operator : chriss2
Sample : ic8748-100
Misc : op30563,ef8748,1000,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 26 10:01:36 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 09:59:21 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200143.D
Acq On : 26 Jun 2021 8:26 am
Operator : chriss2
Sample : ic8748-80
Misc : op30563,ef8748,1000,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 26 10:05:06 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 09:59:21 2021
Response via : Initial Calibration

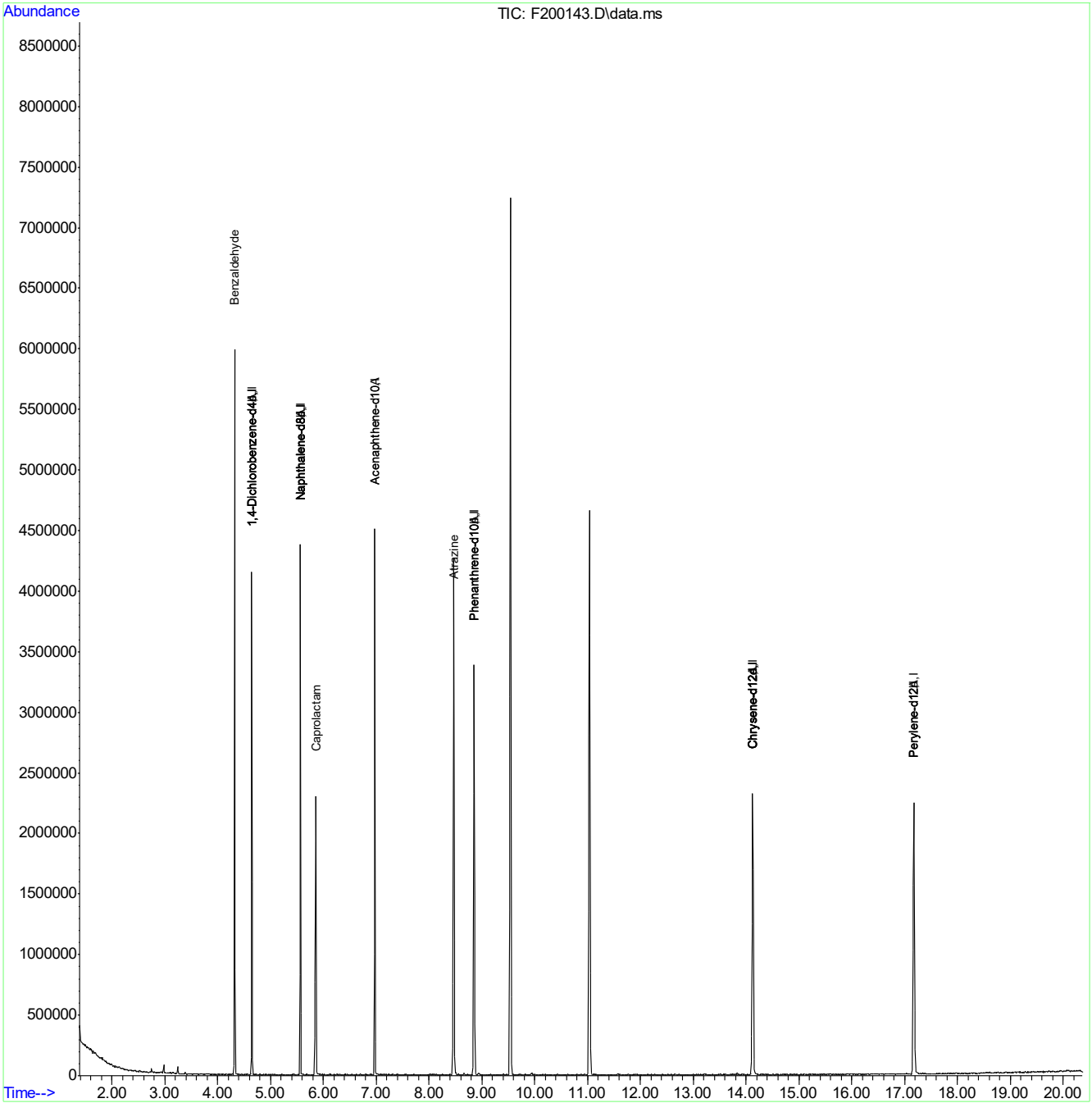
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	384216	40.00	ppm	0.00
24) Naphthalene-d8	5.565	136	1458597	40.00	ppm	0.00
46) Acenaphthene-d10	6.975	164	822641	40.00	ppm	0.00
69) Phenanthrene-d10	8.850	188	1505105	40.00	ppm	0.00
83) Chrysene-d12	14.123	240	1355200	40.00	ppm	-0.01
92) Perylene-d12	17.174	264	1276785	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.646	152	384216	40.00	ppm	0.00
112) Naphthalene-d8A	5.565	136	1458597	40.00	ppm	0.00
121) Acenaphthene-d10A	6.975	164	822641	40.00	ppm	0.00
132) Phenanthrene-d10A	8.850	188	1505105	40.00	ppm	0.00
147) Chrysene-d12A	14.123	240	1355200	40.00	ppm	-0.01
154) Perylene-d12A	17.174	264	1276785	40.00	ppm	0.00
157) 1,4-Dichlorobenzene-d4b	4.646	152	384216	40.00	ppm	0.00
159) Phenanthrene-d10b	8.850	188	1505105	40.00	ppm	0.00
161) Naphthalene-d8b	5.565	136	1458597	40.00	ppm	0.00
163) Naphthalene-d8c	5.565	136	1458597	40.00	ppm	0.00
168) 1,4-Dichlorobenzene-d4c	4.646	152	384216	40.00	ppm	0.00
170) Chrysene-d12c	14.123	240	1355200	40.00	ppm	-0.01
172) Chrysene-d12d	14.123	240	1355200	40.00	ppm	-0.01
174) Naphthalene-d8d	5.565	136	1458597	40.00	ppm	0.00
176) Chrysene-d12e	14.123	240	1355200	40.00	ppm	-0.01
178) Perylene-d12b	17.174	264	1276785	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
158) Benzaldehyde	4.326	105	830182	82.81	ppm	90
160) Atrazine	8.471	200	622611	87.35	ppm	87
162) Caprolactam	5.859	55	333081	83.71	ppm	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200143.D
Acq On : 26 Jun 2021 8:26 am
Operator : chriss2
Sample : ic8748-80
Misc : op30563,ef8748,1000,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 26 10:05:06 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 09:59:21 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200144.D
Acq On : 26 Jun 2021 8:52 am
Operator : chriss2
Sample : icc8748-50
Misc : op30563,ef8748,1000,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 26 10:00:25 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 09:59:21 2021
Response via : Initial Calibration

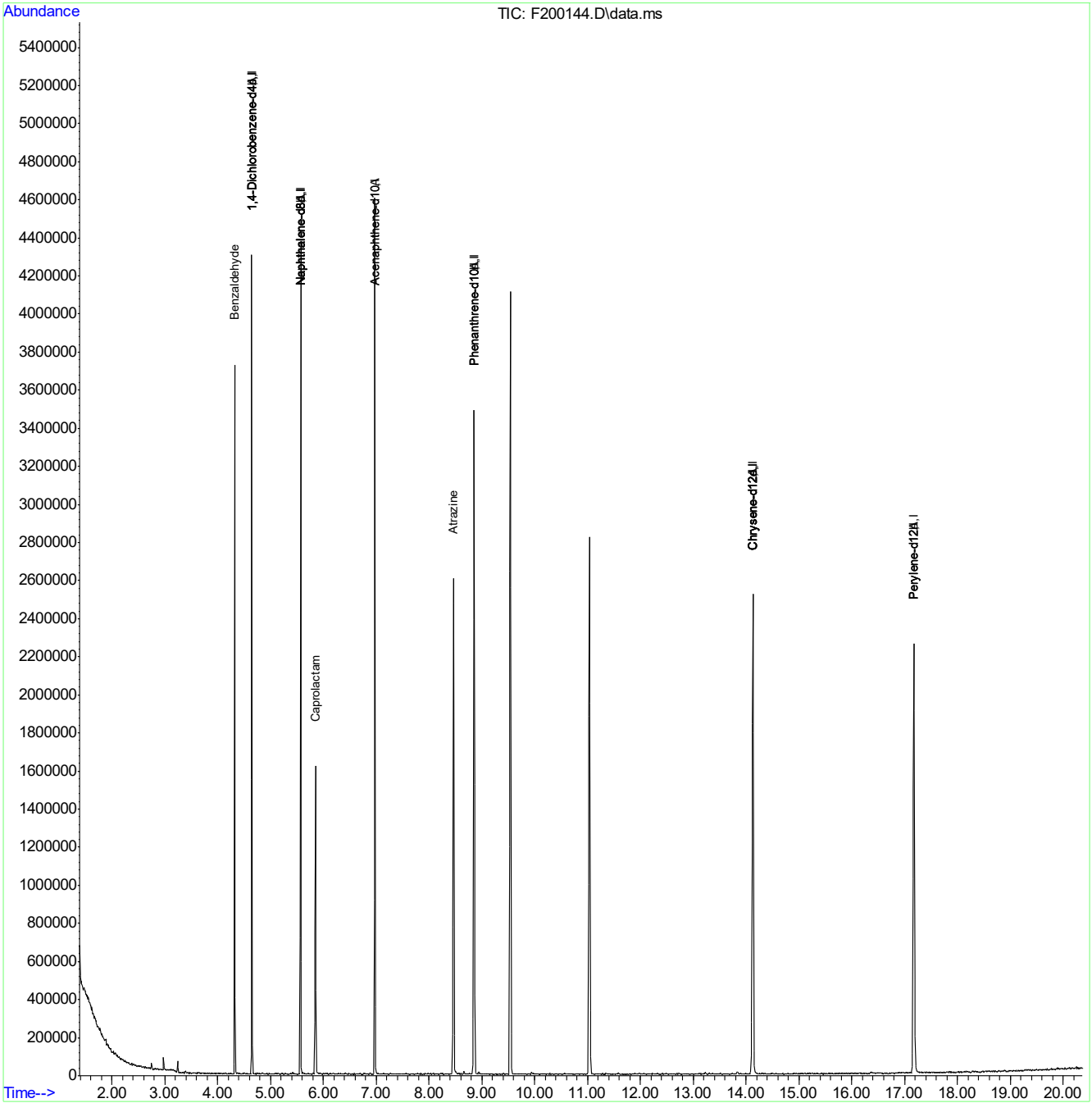
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	385646	40.00	ppm	0.00
24) Naphthalene-d8	5.570	136	1500197	40.00	ppm	0.00
46) Acenaphthene-d10	6.975	164	830254	40.00	ppm	0.00
69) Phenanthrene-d10	8.850	188	1565625	40.00	ppm	0.00
83) Chrysene-d12	14.128	240	1375368	40.00	ppm	0.00
92) Perylene-d12	17.173	264	1285813	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.646	152	385646	40.00	ppm	0.00
112) Naphthalene-d8A	5.570	136	1500197	40.00	ppm	0.00
121) Acenaphthene-d10A	6.975	164	830254	40.00	ppm	0.00
132) Phenanthrene-d10A	8.850	188	1565625	40.00	ppm	0.00
147) Chrysene-d12A	14.128	240	1375368	40.00	ppm	0.00
154) Perylene-d12A	17.173	264	1285813	40.00	ppm	0.00
157) 1,4-Dichlorobenzene-d4b	4.646	152	385646	40.00	ppm	0.00
159) Phenanthrene-d10b	8.850	188	1565625	40.00	ppm	0.00
161) Naphthalene-d8b	5.570	136	1500197	40.00	ppm	0.00
163) Naphthalene-d8c	5.570	136	1500197	40.00	ppm	0.00
168) 1,4-Dichlorobenzene-d4c	4.646	152	385646	40.00	ppm	0.00
170) Chrysene-d12c	14.128	240	1375368	40.00	ppm	0.00
172) Chrysene-d12d	14.128	240	1375368	40.00	ppm	0.00
174) Naphthalene-d8d	5.570	136	1500197	40.00	ppm	0.00
176) Chrysene-d12e	14.128	240	1375368	40.00	ppm	0.00
178) Perylene-d12b	17.173	264	1285813	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
158) Benzaldehyde	4.320	105	503130	50.00	ppm	100
160) Atrazine	8.460	200	370457	49.97	ppm	100
162) Caprolactam	5.853	55	204628	50.00	ppm	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200144.D
Acq On : 26 Jun 2021 8:52 am
Operator : chriss2
Sample : icc8748-50
Misc : op30563,ef8748,1000,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 26 10:00:25 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 09:59:21 2021
Response via : Initial Calibration



JD29923

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200145.D
Acq On : 26 Jun 2021 9:18 am
Operator : chriss2
Sample : ic8748-25
Misc : op30563,ef8748,1000,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 26 10:06:31 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 09:59:21 2021
Response via : Initial Calibration

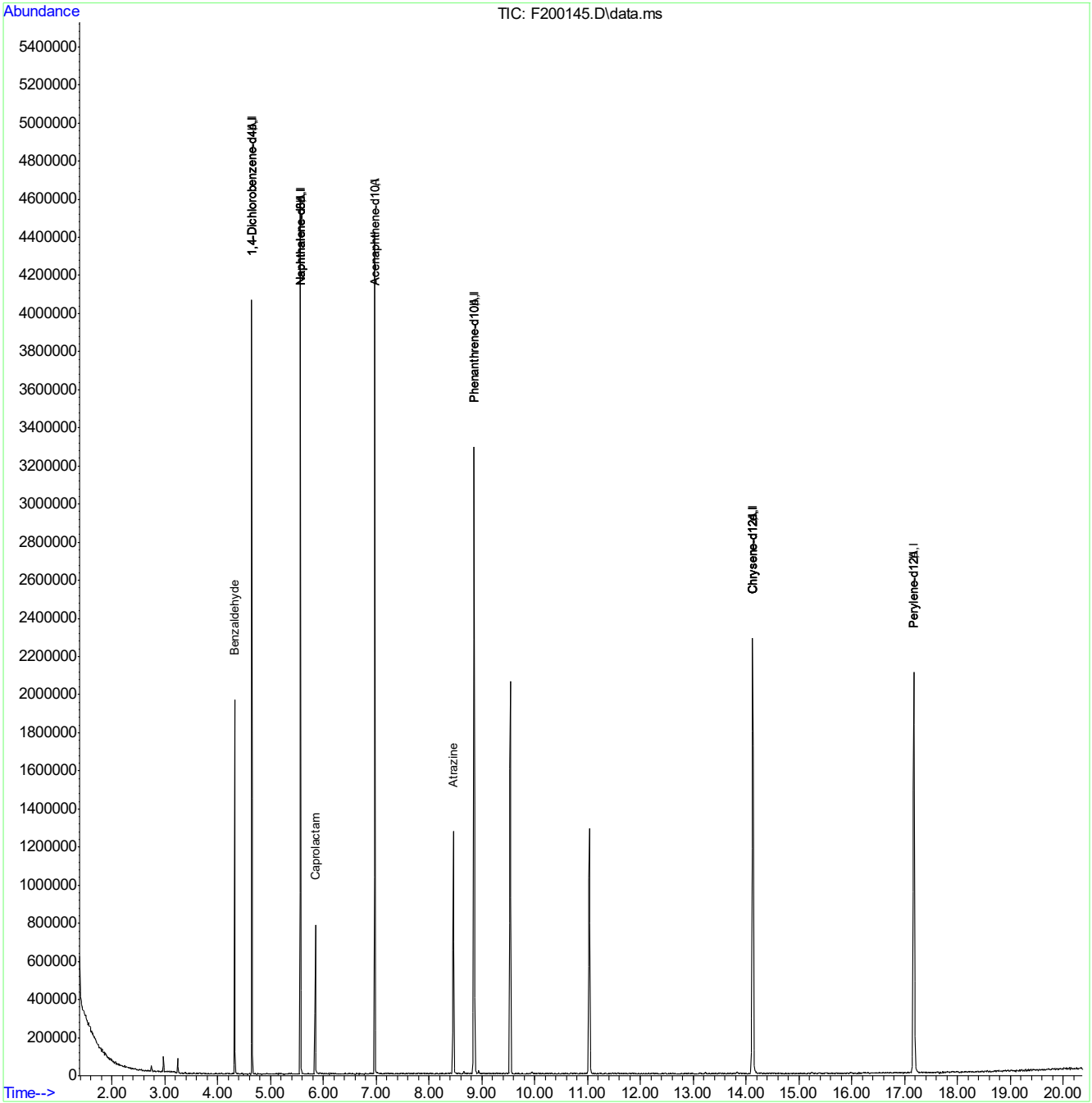
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	370066	40.00	ppm	0.00
24) Naphthalene-d8	5.565	136	1414772	40.00	ppm	0.00
46) Acenaphthene-d10	6.975	164	787302	40.00	ppm	0.00
69) Phenanthrene-d10	8.851	188	1469621	40.00	ppm	0.00
83) Chrysene-d12	14.123	240	1314549	40.00	ppm	-0.01
92) Perylene-d12	17.174	264	1214184	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.646	152	370066	40.00	ppm	0.00
112) Naphthalene-d8A	5.565	136	1414772	40.00	ppm	0.00
121) Acenaphthene-d10A	6.975	164	787302	40.00	ppm	0.00
132) Phenanthrene-d10A	8.851	188	1469621	40.00	ppm	0.00
147) Chrysene-d12A	14.123	240	1314549	40.00	ppm	-0.01
154) Perylene-d12A	17.174	264	1214184	40.00	ppm	0.00
157) 1,4-Dichlorobenzene-d4b	4.646	152	370066	40.00	ppm	0.00
159) Phenanthrene-d10b	8.851	188	1469621	40.00	ppm	0.00
161) Naphthalene-d8b	5.565	136	1414772	40.00	ppm	0.00
163) Naphthalene-d8c	5.565	136	1414772	40.00	ppm	0.00
168) 1,4-Dichlorobenzene-d4c	4.646	152	370066	40.00	ppm	0.00
170) Chrysene-d12c	14.123	240	1314549	40.00	ppm	-0.01
172) Chrysene-d12d	14.123	240	1314549	40.00	ppm	-0.01
174) Naphthalene-d8d	5.565	136	1414772	40.00	ppm	0.00
176) Chrysene-d12e	14.123	240	1314549	40.00	ppm	-0.01
178) Perylene-d12b	17.174	264	1214184	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
158) Benzaldehyde	4.320	105	234832	24.32	ppm	98
160) Atrazine	8.461	200	170461	24.49	ppm	93
162) Caprolactam	5.848	55	91229	23.64	ppm	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200145.D
Acq On : 26 Jun 2021 9:18 am
Operator : chriss2
Sample : ic8748-25
Misc : op30563,ef8748,1000,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 26 10:06:31 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 09:59:21 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200146.D
Acq On : 26 Jun 2021 9:43 am
Operator : chriss2
Sample : ic8748-10
Misc : op30563,ef8748,1000,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 26 10:07:40 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 09:59:21 2021
Response via : Initial Calibration

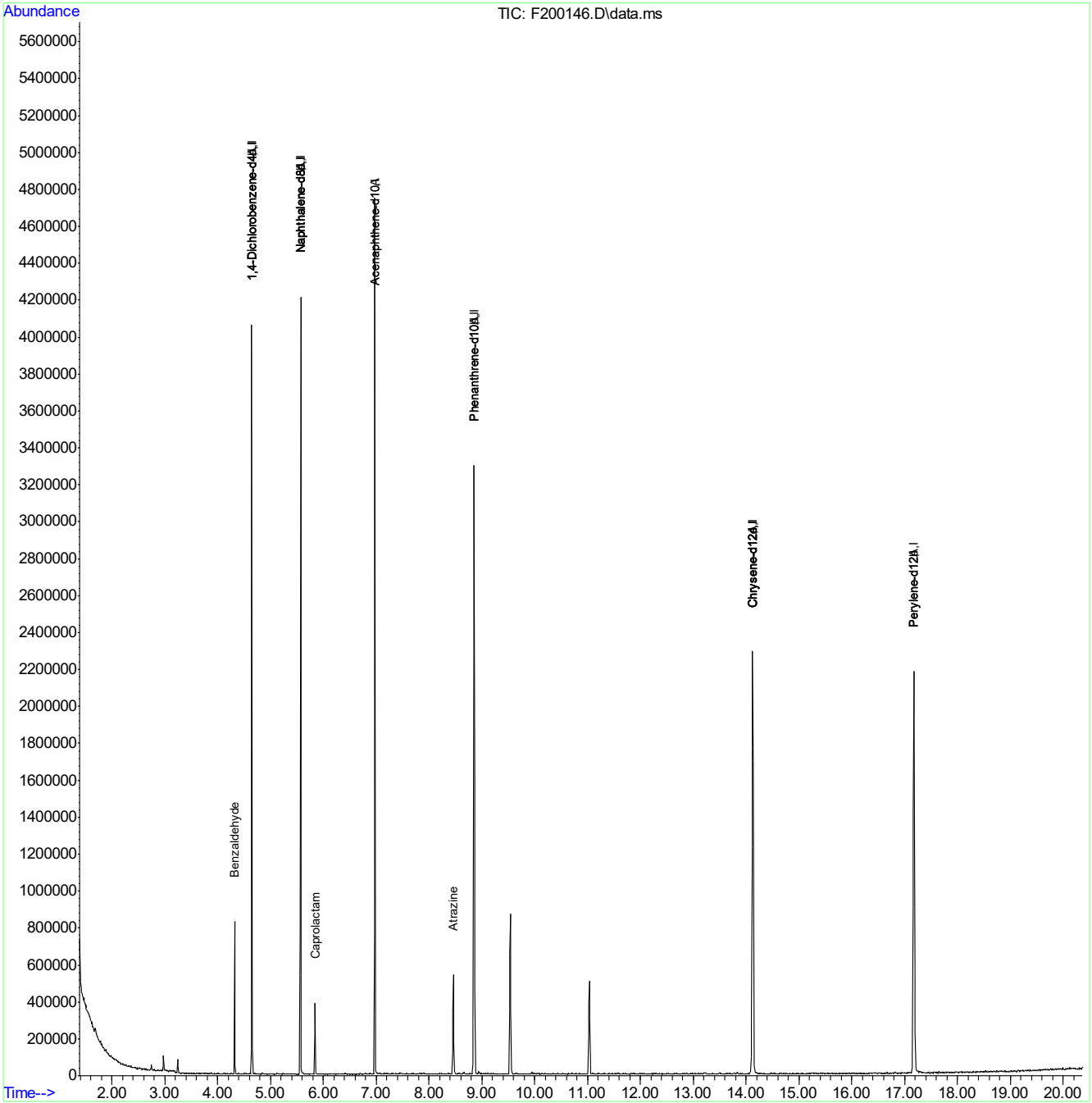
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	383782	40.00	ppm	0.00
24) Naphthalene-d8	5.570	136	1451387	40.00	ppm	0.00
46) Acenaphthene-d10	6.975	164	821947	40.00	ppm	0.00
69) Phenanthrene-d10	8.850	188	1501954	40.00	ppm	0.00
83) Chrysene-d12	14.128	240	1326844	40.00	ppm	0.00
92) Perylene-d12	17.173	264	1266031	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.646	152	383782	40.00	ppm	0.00
112) Naphthalene-d8A	5.570	136	1451387	40.00	ppm	0.00
121) Acenaphthene-d10A	6.975	164	821947	40.00	ppm	0.00
132) Phenanthrene-d10A	8.850	188	1501954	40.00	ppm	0.00
147) Chrysene-d12A	14.128	240	1326844	40.00	ppm	0.00
154) Perylene-d12A	17.173	264	1266031	40.00	ppm	0.00
157) 1,4-Dichlorobenzene-d4b	4.646	152	383782	40.00	ppm	0.00
159) Phenanthrene-d10b	8.850	188	1501954	40.00	ppm	0.00
161) Naphthalene-d8b	5.570	136	1451387	40.00	ppm	0.00
163) Naphthalene-d8c	5.570	136	1451387	40.00	ppm	0.00
168) 1,4-Dichlorobenzene-d4c	4.646	152	383782	40.00	ppm	0.00
170) Chrysene-d12c	14.128	240	1326844	40.00	ppm	0.00
172) Chrysene-d12d	14.128	240	1326844	40.00	ppm	0.00
174) Naphthalene-d8d	5.570	136	1451387	40.00	ppm	0.00
176) Chrysene-d12e	14.128	240	1326844	40.00	ppm	0.00
178) Perylene-d12b	17.173	264	1266031	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
158) Benzaldehyde	4.320	105	96979	9.68	ppm	90
160) Atrazine	8.455	200	68044	9.57	ppm	96
162) Caprolactam	5.843	55	36296	9.17	ppm	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200146.D
Acq On : 26 Jun 2021 9:43 am
Operator : chriss2
Sample : ic8748-10
Misc : op30563,ef8748,1000,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 26 10:07:40 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 09:59:21 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200147.D
Acq On : 26 Jun 2021 10:09 am
Operator : chriss2
Sample : ic8748-5
Misc : op30563,ef8748,1000,,,1,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 26 11:04:31 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 10:15:58 2021
Response via : Initial Calibration

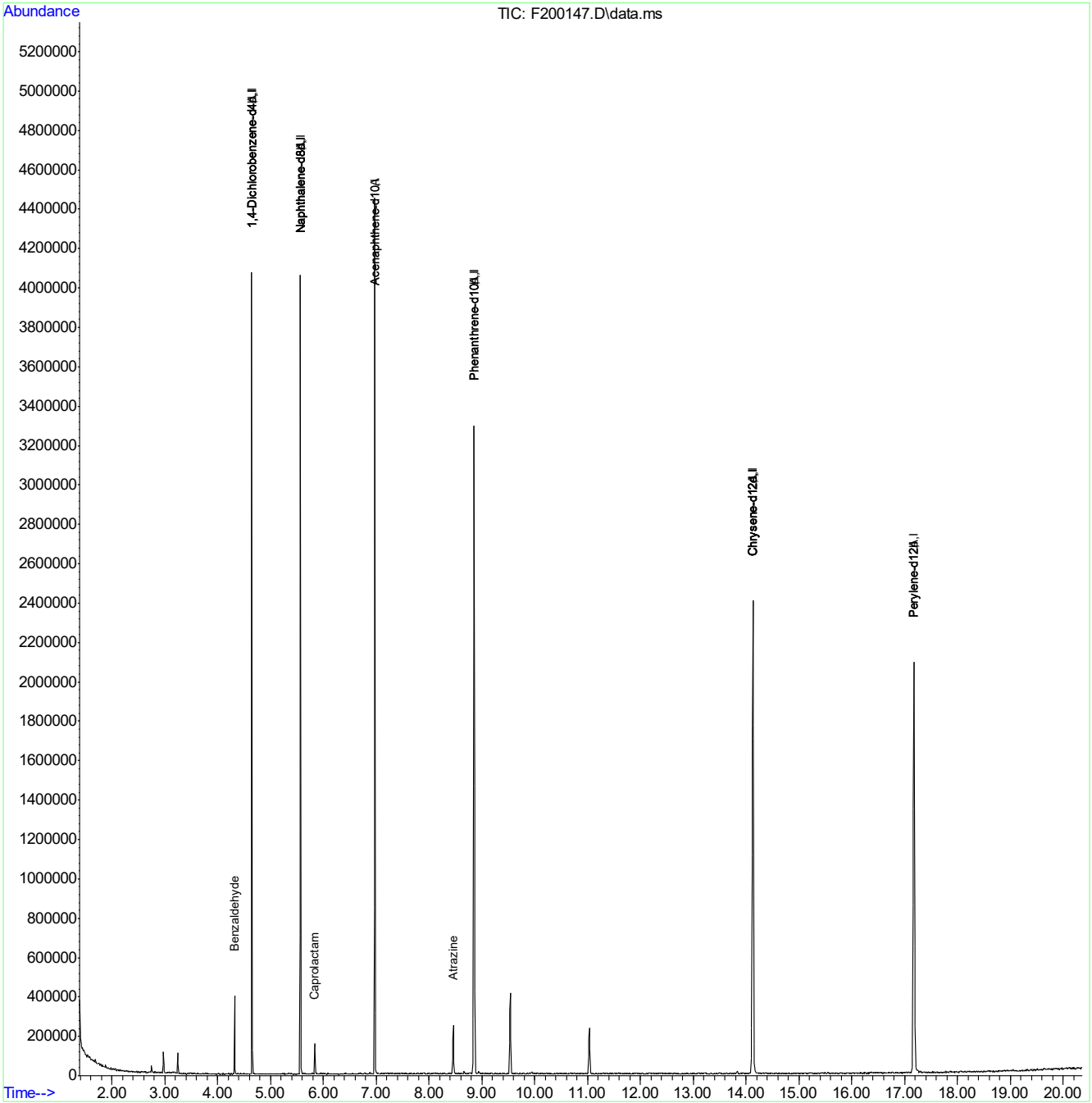
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	375821	40.00	ppm	0.00
24) Naphthalene-d8	5.570	136	1391555	40.00	ppm	0.00
46) Acenaphthene-d10	6.975	164	790176	40.00	ppm	0.00
69) Phenanthrene-d10	8.850	188	1464985	40.00	ppm	0.00
83) Chrysene-d12	14.128	240	1305448	40.00	ppm	0.00
92) Perylene-d12	17.173	264	1242127	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.646	152	375821	40.00	ppm	0.00
112) Naphthalene-d8A	5.570	136	1391555	40.00	ppm	0.00
121) Acenaphthene-d10A	6.975	164	790176	40.00	ppm	0.00
132) Phenanthrene-d10A	8.850	188	1464985	40.00	ppm	0.00
147) Chrysene-d12A	14.128	240	1305448	40.00	ppm	0.00
154) Perylene-d12A	17.173	264	1242127	40.00	ppm	0.00
157) 1,4-Dichlorobenzene-d4b	4.646	152	375821	40.00	ppm	0.00
159) Phenanthrene-d10b	8.850	188	1464985	40.00	ppm	0.00
161) Naphthalene-d8b	5.570	136	1391555	40.00	ppm	0.00
163) Naphthalene-d8c	5.570	136	1391555	40.00	ppm	0.00
168) 1,4-Dichlorobenzene-d4c	4.646	152	375821	40.00	ppm	0.00
170) Chrysene-d12c	14.128	240	1305448	40.00	ppm	0.00
172) Chrysene-d12d	14.128	240	1305448	40.00	ppm	0.00
174) Naphthalene-d8d	5.570	136	1391555	40.00	ppm	0.00
176) Chrysene-d12e	14.128	240	1305448	40.00	ppm	0.00
178) Perylene-d12b	17.173	264	1242127	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
158) Benzaldehyde	4.320	105	43808	4.40	ppm	99
160) Atrazine	8.455	200	31771	4.43	ppm	87
162) Caprolactam	5.837	55	14266	3.75	ppm	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200147.D
Acq On : 26 Jun 2021 10:09 am
Operator : chriss2
Sample : ic8748-5
Misc : op30563,ef8748,1000,,,1,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 26 11:04:31 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 10:15:58 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200148.D
Acq On : 26 Jun 2021 10:35 am
Operator : chriss2
Sample : ic8748-2
Misc : op30563,ef8748,1000,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 26 11:05:44 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 10:15:58 2021
Response via : Initial Calibration

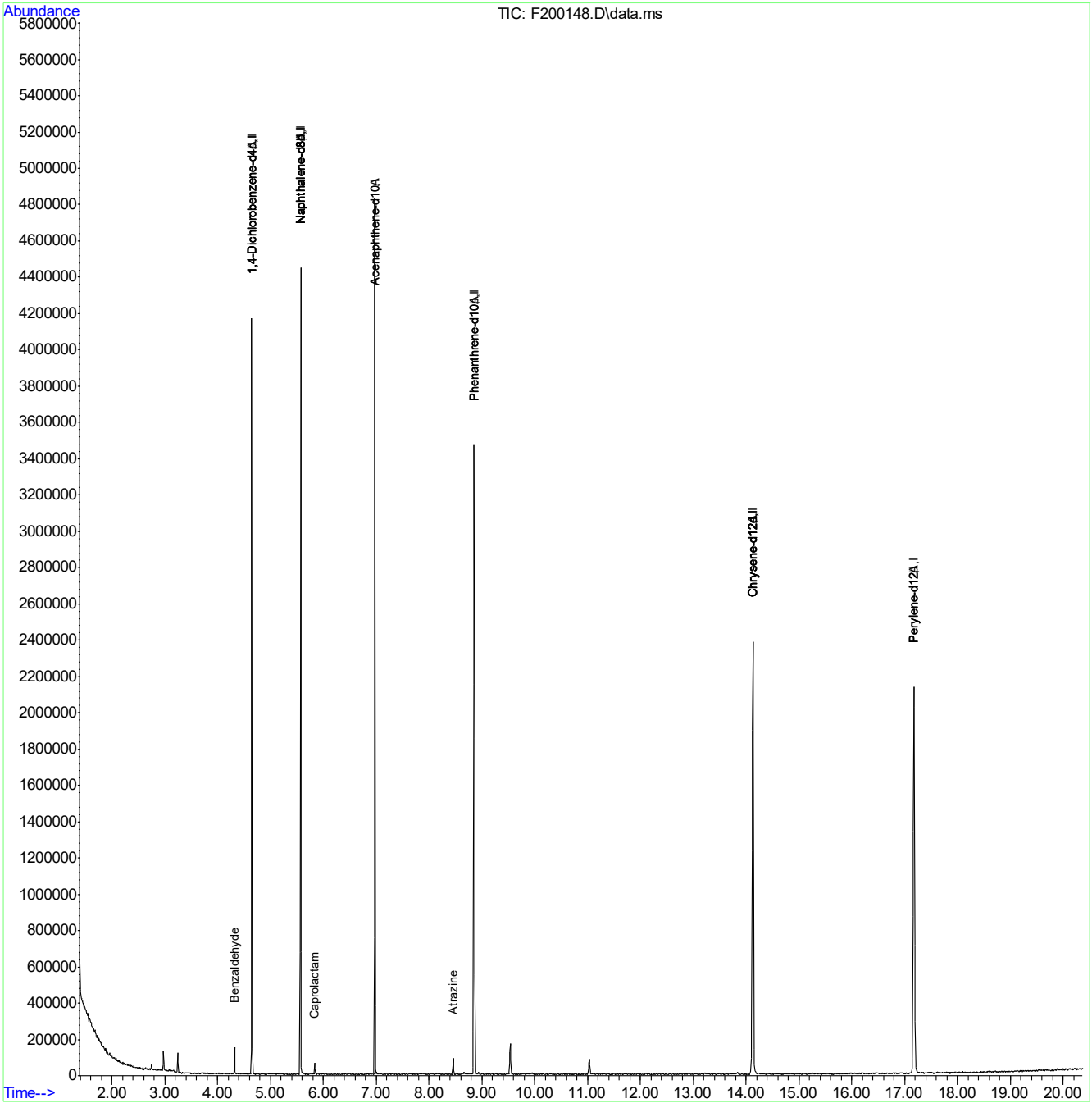
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	378191	40.00	ppm	0.00
24) Naphthalene-d8	5.570	136	1469485	40.00	ppm	0.00
46) Acenaphthene-d10	6.975	164	841090	40.00	ppm	0.00
69) Phenanthrene-d10	8.850	188	1575318	40.00	ppm	0.00
83) Chrysene-d12	14.128	240	1385342	40.00	ppm	0.00
92) Perylene-d12	17.173	264	1293174	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.646	152	378191	40.00	ppm	0.00
112) Naphthalene-d8A	5.570	136	1469485	40.00	ppm	0.00
121) Acenaphthene-d10A	6.975	164	841090	40.00	ppm	0.00
132) Phenanthrene-d10A	8.850	188	1575318	40.00	ppm	0.00
147) Chrysene-d12A	14.128	240	1385342	40.00	ppm	0.00
154) Perylene-d12A	17.173	264	1293174	40.00	ppm	0.00
157) 1,4-Dichlorobenzene-d4b	4.646	152	378191	40.00	ppm	0.00
159) Phenanthrene-d10b	8.850	188	1575318	40.00	ppm	0.00
161) Naphthalene-d8b	5.570	136	1469485	40.00	ppm	0.00
163) Naphthalene-d8c	5.570	136	1469485	40.00	ppm	0.00
168) 1,4-Dichlorobenzene-d4c	4.646	152	378191	40.00	ppm	0.00
170) Chrysene-d12c	14.128	240	1385342	40.00	ppm	0.00
172) Chrysene-d12d	14.128	240	1385342	40.00	ppm	0.00
174) Naphthalene-d8d	5.570	136	1469485	40.00	ppm	0.00
176) Chrysene-d12e	14.128	240	1385342	40.00	ppm	0.00
178) Perylene-d12b	17.173	264	1293174	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
158) Benzaldehyde	4.320	105	17465	1.74	ppm	95
160) Atrazine	8.455	200	10980	1.42	ppm	93
162) Caprolactam	5.837	55	6172	1.54	ppm	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200148.D
Acq On : 26 Jun 2021 10:35 am
Operator : chriss2
Sample : ic8748-2
Misc : op30563,ef8748,1000,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 26 11:05:44 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 10:15:58 2021
Response via : Initial Calibration



MF8747.M Sat Jun 26 11:05:54 2021 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200149.D
Acq On : 26 Jun 2021 11:02 am
Operator : chriss2
Sample : ic8748-1
Misc : op30563,ef8748,1000,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 26 11:37:37 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 11:09:09 2021
Response via : Initial Calibration

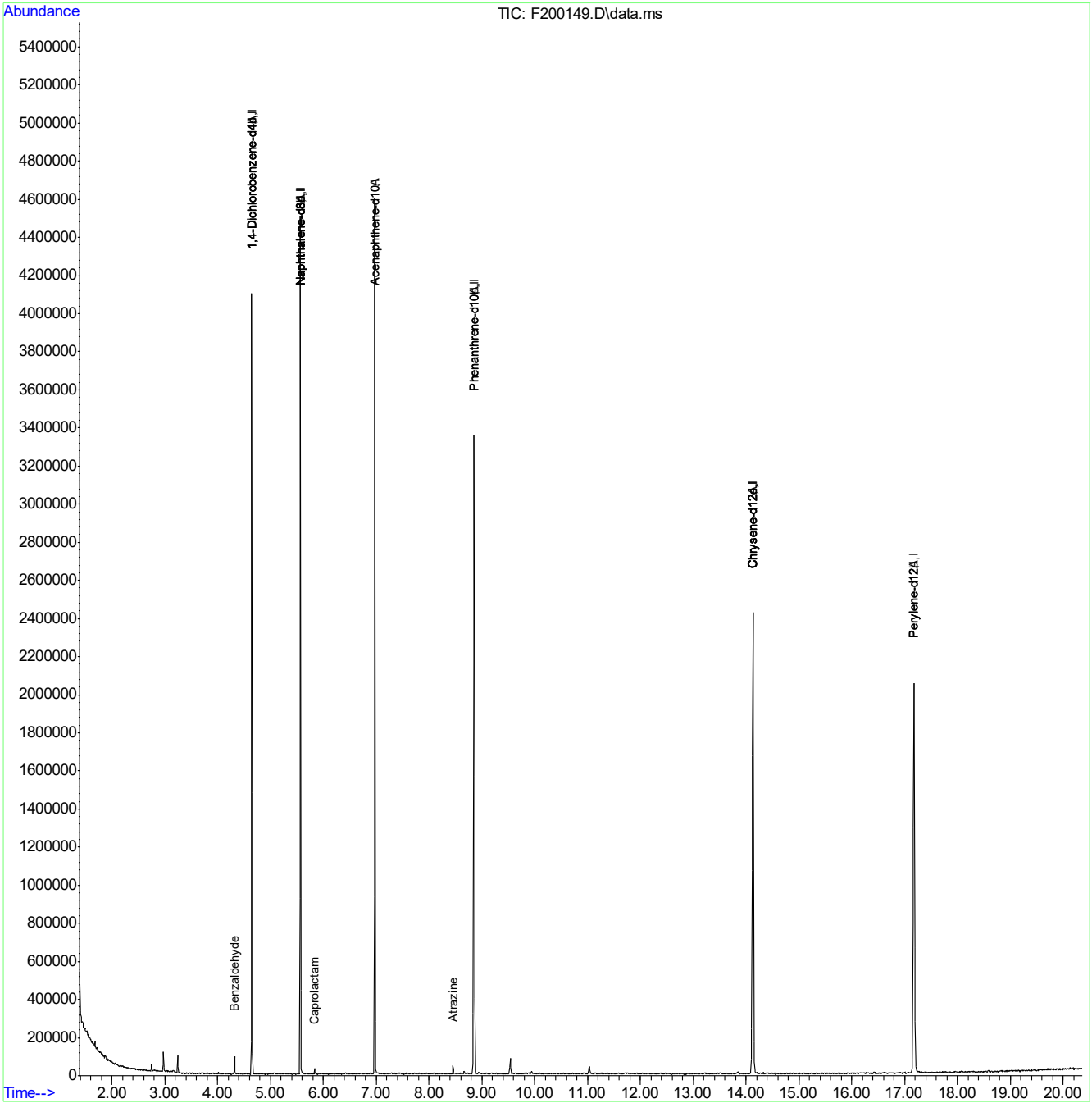
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	375636	40.00	ppm	0.00
24) Naphthalene-d8	5.565	136	1445344	40.00	ppm	0.00
46) Acenaphthene-d10	6.975	164	812171	40.00	ppm	0.00
69) Phenanthrene-d10	8.850	188	1494873	40.00	ppm	0.00
83) Chrysene-d12	14.129	240	1317569	40.00	ppm	0.00
92) Perylene-d12	17.174	264	1234478	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.646	152	375636	40.00	ppm	0.00
112) Naphthalene-d8A	5.565	136	1445344	40.00	ppm	0.00
121) Acenaphthene-d10A	6.975	164	812171	40.00	ppm	0.00
132) Phenanthrene-d10A	8.850	188	1494873	40.00	ppm	0.00
147) Chrysene-d12A	14.129	240	1317569	40.00	ppm	0.00
154) Perylene-d12A	17.174	264	1234478	40.00	ppm	0.00
157) 1,4-Dichlorobenzene-d4b	4.646	152	375636	40.00	ppm	0.00
159) Phenanthrene-d10b	8.850	188	1494873	40.00	ppm	0.00
161) Naphthalene-d8b	5.565	136	1445344	40.00	ppm	0.00
163) Naphthalene-d8c	5.565	136	1445344	40.00	ppm	0.00
168) 1,4-Dichlorobenzene-d4c	4.646	152	375636	40.00	ppm	0.00
170) Chrysene-d12c	14.129	240	1317688	40.00	ppm	0.00
172) Chrysene-d12d	14.129	240	1317569	40.00	ppm	0.00
174) Naphthalene-d8d	5.565	136	1445344	40.00	ppm	0.00
176) Chrysene-d12e	14.129	240	1317569	40.00	ppm	0.00
178) Perylene-d12b	17.174	264	1234478	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
158) Benzaldehyde	4.320	105	10489	1.09	ppm	94
160) Atrazine	8.455	200	5659	0.82	ppm	91
162) Caprolactam	5.837	55	2802	0.76	ppm #	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200149.D
Acq On : 26 Jun 2021 11:02 am
Operator : chriss2
Sample : ic8748-1
Misc : op30563,ef8748,1000,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 26 11:37:37 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 11:09:09 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200151.D
Acq On : 26 Jun 2021 11:54 am
Operator : chriss2
Sample : icv8747-50
Misc : op30563,ef8748,1000,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 26 12:35:25 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 11:54:08 2021
Response via : Initial Calibration

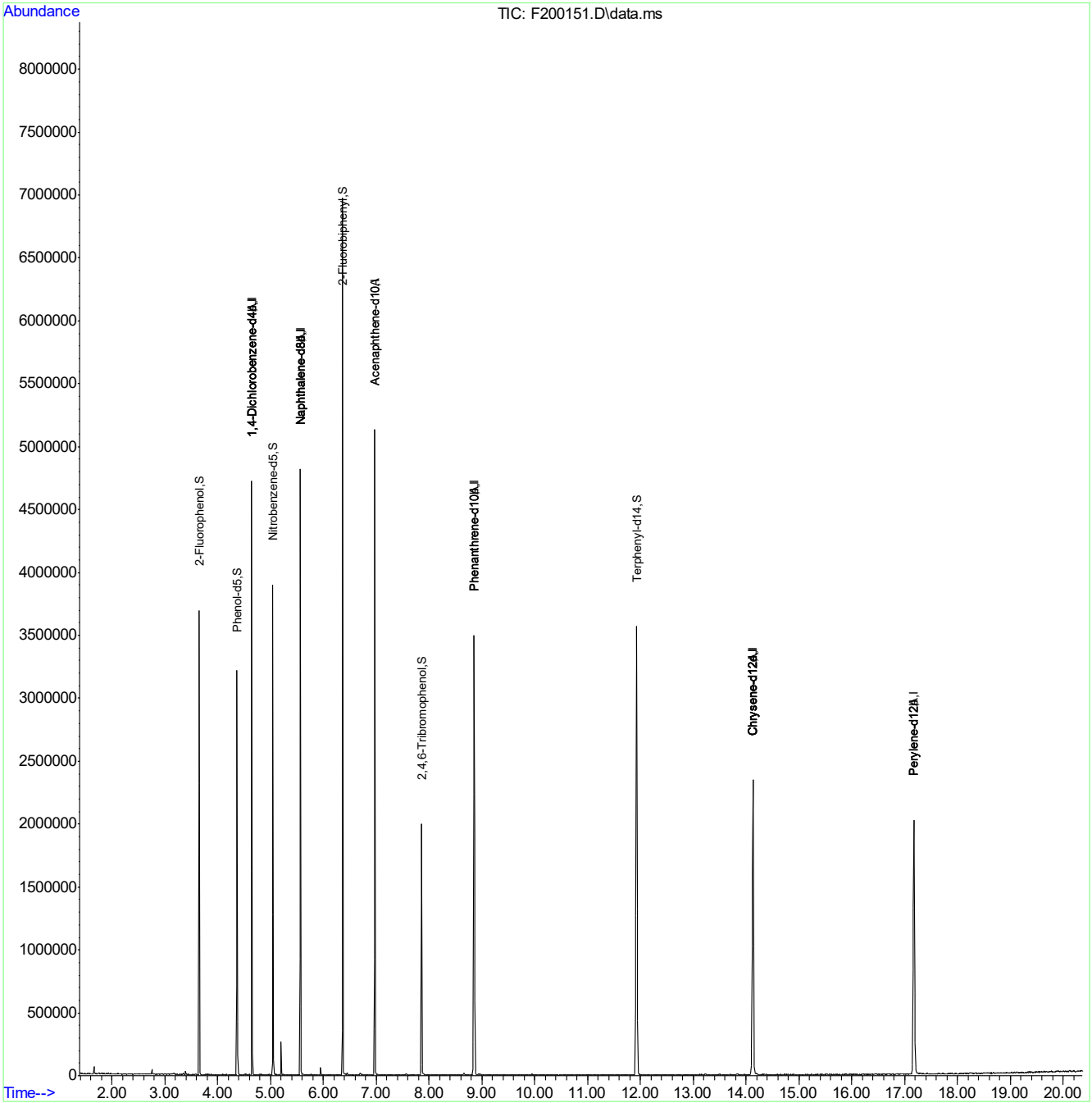
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	425660	40.00	ppm	0.00
24) Naphthalene-d8	5.565	136	1621160	40.00	ppm	0.00
46) Acenaphthene-d10	6.975	164	899475	40.00	ppm	0.00
69) Phenanthrene-d10	8.850	188	1604427	40.00	ppm	0.00
83) Chrysene-d12	14.128	240	1327931	40.00	ppm	0.00
92) Perylene-d12	17.174	264	1218190	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.646	152	425660	40.00	ppm	0.00
112) Naphthalene-d8A	5.565	136	1621160	40.00	ppm	0.00
121) Acenaphthene-d10A	6.975	164	899475	40.00	ppm	0.00
132) Phenanthrene-d10A	8.850	188	1604427	40.00	ppm	0.00
147) Chrysene-d12A	14.128	240	1327931	40.00	ppm	0.00
154) Perylene-d12A	17.174	264	1218190	40.00	ppm	0.00
157) 1,4-Dichlorobenzene-d4b	4.646	152	425660	40.00	ppm	0.00
159) Phenanthrene-d10b	8.850	188	1604427	40.00	ppm	0.00
161) Naphthalene-d8b	5.565	136	1621160	40.00	ppm	0.00
163) Naphthalene-d8c	5.565	136	1621160	40.00	ppm	0.00
168) 1,4-Dichlorobenzene-d4c	4.646	152	425660	40.00	ppm	0.00
170) Chrysene-d12c	14.128	240	1327931	40.00	ppm	0.00
172) Chrysene-d12d	14.128	240	1327931	40.00	ppm	0.00
174) Naphthalene-d8d	5.565	136	1621160	40.00	ppm	0.00
176) Chrysene-d12e	14.128	240	1327931	40.00	ppm	0.00
178) Perylene-d12b	17.174	264	1218190	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.652	112	617002	47.35	ppm	0.00
Spiked Amount 50.000			Recovery = 94.70%			
8) Phenol-d5	4.368	99	784820	44.43	ppm	0.00
Spiked Amount 50.000			Recovery = 88.86%			
25) Nitrobenzene-d5	5.047	82	802265	51.22	ppm	0.00
Spiked Amount 50.000			Recovery = 102.44%			
51) 2-Fluorobiphenyl	6.366	172	1528331	51.09	ppm	0.00
Spiked Amount 50.000			Recovery = 102.18%			
73) 2,4,6-Tribromophenol	7.857	330	198636	47.04	ppm	0.00
Spiked Amount 50.000			Recovery = 94.08%			
86) Terphenyl-d14	11.927	244	1798150	56.77	ppm	0.00
Spiked Amount 50.000			Recovery = 113.54%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200151.D
Acq On : 26 Jun 2021 11:54 am
Operator : chriss2
Sample : icv8747-50
Misc : op30563,ef8748,1000,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 26 12:35:25 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 11:54:08 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200152.D
Acq On : 26 Jun 2021 12:19 pm
Operator : chriss2
Sample : icv8747-50
Misc : op30563,ef8748,1000,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 28 09:20:51 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 11:52:59 2021
Response via : Initial Calibration

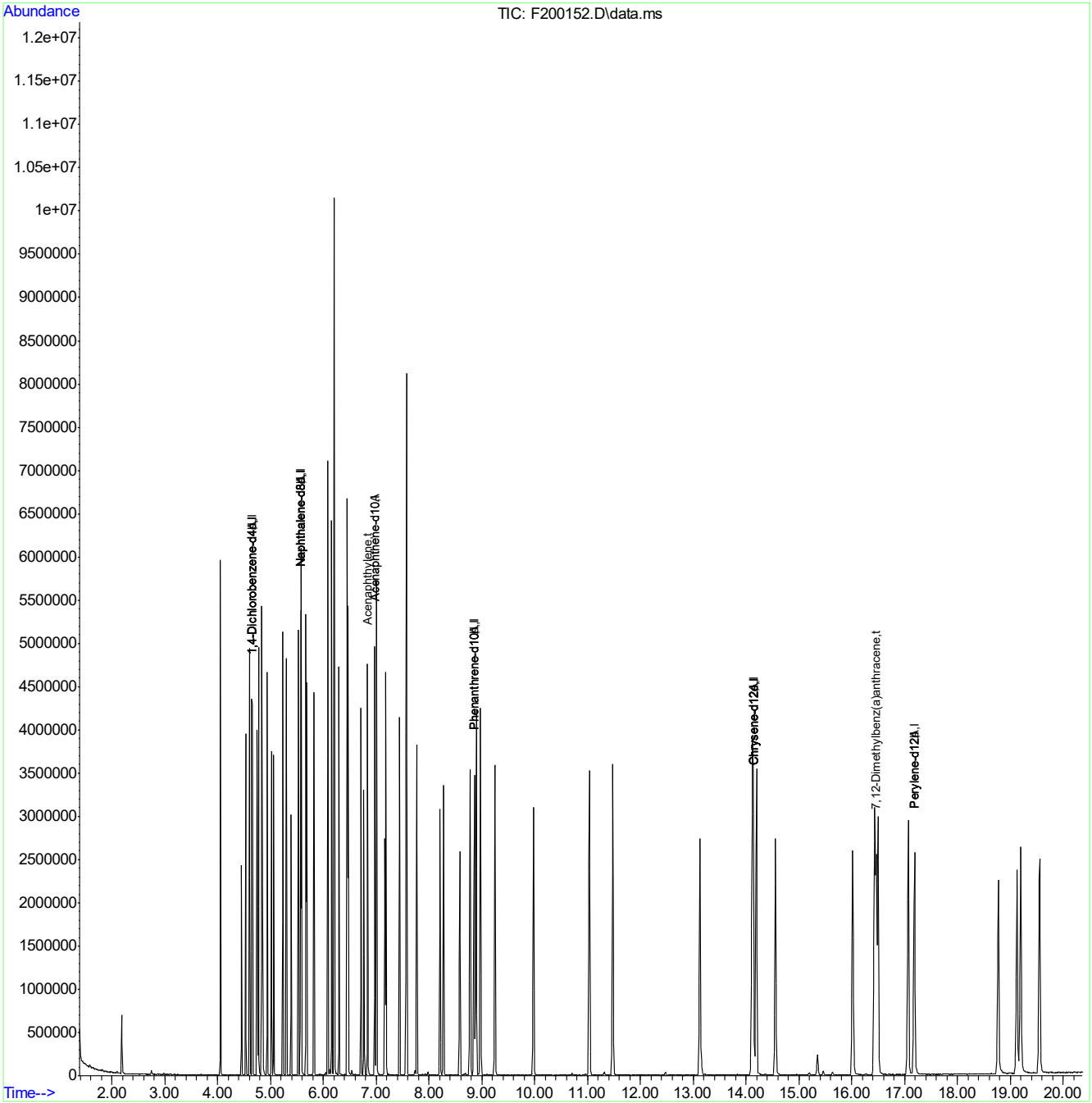
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	417233	40.00	ppm	0.00
24) Naphthalene-d8	5.570	136	1591209	40.00	ppm	0.00
46) Acenaphthene-d10	6.975	164	922451	40.00	ppm	0.00
69) Phenanthrene-d10	8.856	188	1666113	40.00	ppm	0.00
83) Chrysene-d12	14.139	240	1579377	40.00	ppm	0.00
92) Perylene-d12	17.184	264	1478791	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.646	152	417233	40.00	ppm	0.00
112) Naphthalene-d8A	5.570	136	1591209	40.00	ppm	0.00
121) Acenaphthene-d10A	6.975	164	922451	40.00	ppm	0.00
132) Phenanthrene-d10A	8.856	188	1666113	40.00	ppm	0.00
147) Chrysene-d12A	14.139	240	1579377	40.00	ppm	0.00
154) Perylene-d12A	17.184	264	1478791	40.00	ppm	0.00
157) 1,4-Dichlorobenzene-d4b	4.646	152	417233	40.00	ppm	0.00
159) Phenanthrene-d10b	8.856	188	1666113	40.00	ppm	0.00
161) Naphthalene-d8b	5.570	136	1591209	40.00	ppm	0.00
163) Naphthalene-d8c	5.570	136	1591209	40.00	ppm	0.00
168) 1,4-Dichlorobenzene-d4c	4.646	152	417233	40.00	ppm	0.00
170) Chrysene-d12c	14.139	240	1579377	40.00	ppm	0.00
172) Chrysene-d12d	14.139	240	1579377	40.00	ppm	0.00
174) Naphthalene-d8d	5.570	136	1591209	40.00	ppm	0.00
176) Chrysene-d12e	14.139	240	1579377	40.00	ppm	0.00
178) Perylene-d12b	17.184	264	1478791	40.00	ppm	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
56) Acenaphthylene	6.842	152	1842474	58.63	ppm	99
100) 7,12-Dimethylbenz(a)an...	16.458	256	793318	41.22	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200152.D
Acq On : 26 Jun 2021 12:19 pm
Operator : chriss2
Sample : icv8747-50
Misc : op30563,ef8748,1000,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 28 09:20:51 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 11:52:59 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200153.D
Acq On : 26 Jun 2021 12:46 pm
Operator : chriss2
Sample : icv8748-50
Misc : op30563,ef8748,1000,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 28 09:23:31 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 11:52:59 2021
Response via : Initial Calibration

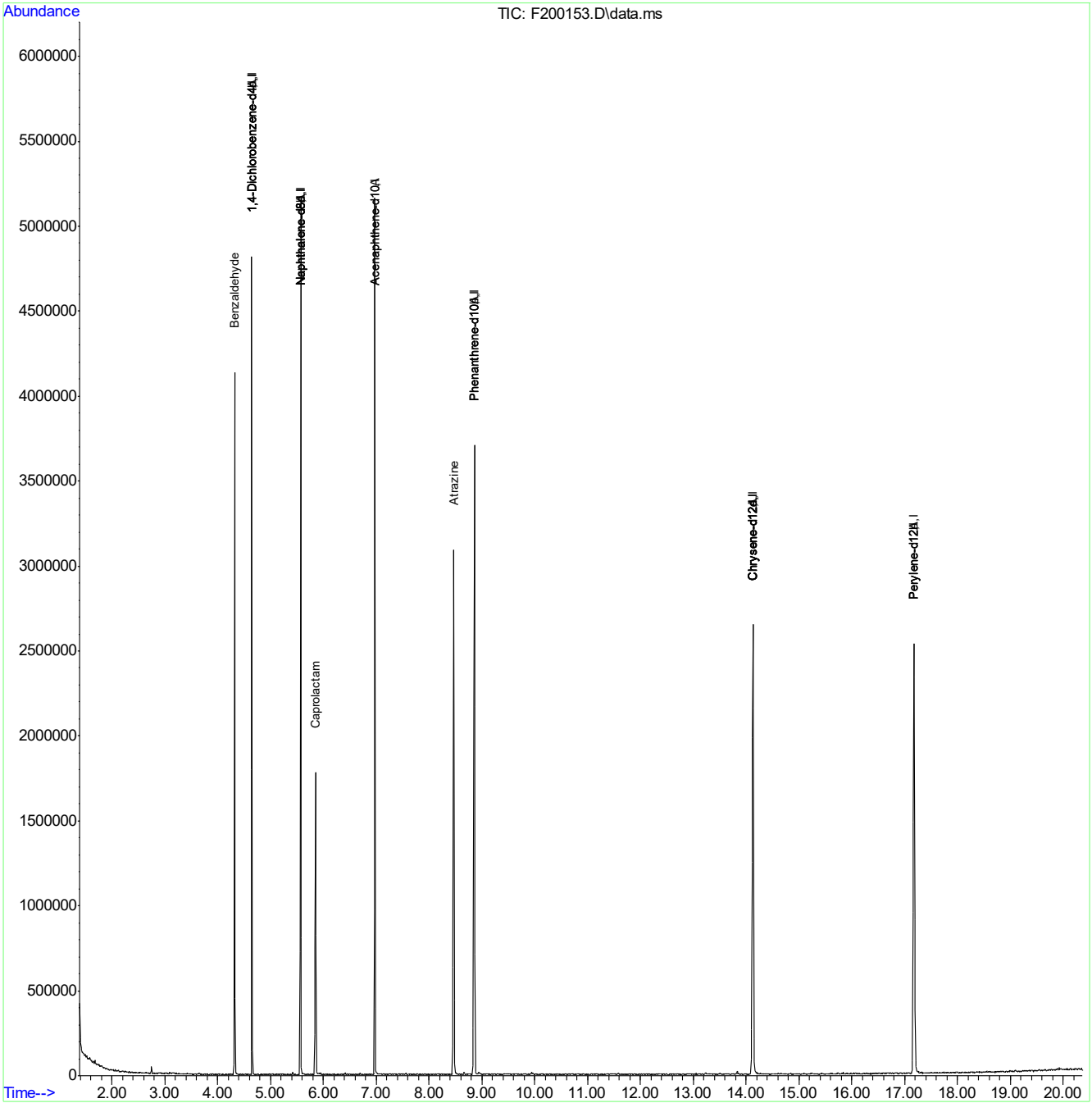
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	436371	40.00	ppm	0.00
24) Naphthalene-d8	5.570	136	1656033	40.00	ppm	0.00
46) Acenaphthene-d10	6.975	164	927947	40.00	ppm	0.00
69) Phenanthrene-d10	8.855	188	1720632	40.00	ppm	0.00
83) Chrysene-d12	14.128	240	1539845	40.00	ppm	0.00
92) Perylene-d12	17.173	264	1483610	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.646	152	436371	40.00	ppm	0.00
112) Naphthalene-d8A	5.570	136	1656033	40.00	ppm	0.00
121) Acenaphthene-d10A	6.975	164	927947	40.00	ppm	0.00
132) Phenanthrene-d10A	8.855	188	1720632	40.00	ppm	0.00
147) Chrysene-d12A	14.128	240	1539845	40.00	ppm	0.00
154) Perylene-d12A	17.173	264	1483610	40.00	ppm	0.00
157) 1,4-Dichlorobenzene-d4b	4.646	152	436371	40.00	ppm	0.00
159) Phenanthrene-d10b	8.855	188	1720632	40.00	ppm	0.00
161) Naphthalene-d8b	5.570	136	1656033	40.00	ppm	0.00
163) Naphthalene-d8c	5.570	136	1656033	40.00	ppm	0.00
168) 1,4-Dichlorobenzene-d4c	4.646	152	436371	40.00	ppm	0.00
170) Chrysene-d12c	14.128	240	1539845	40.00	ppm	0.00
172) Chrysene-d12d	14.128	240	1539845	40.00	ppm	0.00
174) Naphthalene-d8d	5.570	136	1656033	40.00	ppm	0.00
176) Chrysene-d12e	14.128	240	1539845	40.00	ppm	0.00
178) Perylene-d12b	17.173	264	1483610	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
158) Benzaldehyde	4.320	105	564069	49.98	ppm	97
160) Atrazine	8.465	200	433591	55.84	ppm	95
162) Caprolactam	5.853	55	226027	55.29	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\EF8747\
Data File : F200153.D
Acq On : 26 Jun 2021 12:46 pm
Operator : chriss2
Sample : icv8748-50
Misc : op30563,ef8748,1000,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 28 09:23:31 2021
Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sat Jun 26 11:52:59 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201229.d
Acq On : 18 Aug 2021 3:28 pm
Operator : kristis
Sample : cc8747-50 Inst : GCMSF
Misc : op34584,ef8807,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 18 15:54:33 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Aug 13 08:36:13 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.651	152	316503	40.00	ppm	-0.02
24) Naphthalene-d8	5.575	136	1218124	40.00	ppm	-0.02
46) Acenaphthene-d10	6.980	164	729922	40.00	ppm	-0.03
69) Phenanthrene-d10	8.861	188	1374313	40.00	ppm	-0.04
83) Chrysene-d12	14.144	240	1288156	40.00	ppm	-0.05
92) Perylene-d12	17.189	264	1242727	40.00	ppm	-0.05
102) 1,4-Dichlorobenzene-d4b	4.651	152	316503	40.00	ppm	-0.02
104) Phenanthrene-d10b	8.861	188	1374313	40.00	ppm	-0.04
106) Naphthalene-d8b	5.575	136	1218124	40.00	ppm	-0.02
108) Chrysene-d12d	14.144	240	1288156	40.00	ppm	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	3.674	112	479846	49.52	ppm	-0.03
Spiked Amount 50.000			Recovery = 99.04%			
8) Phenol-d5	4.395	99	664437	50.59	ppm	-0.03
Spiked Amount 50.000			Recovery = 101.18%			
25) Nitrobenzene-d5	5.057	82	656829	55.81	ppm	-0.02
Spiked Amount 50.000			Recovery = 111.62%			
51) 2-Fluorobiphenyl	6.371	172	1220112	50.26	ppm	-0.03
Spiked Amount 50.000			Recovery = 100.52%			
73) 2,4,6-Tribromophenol	7.873	330	194457	53.76	ppm	-0.04
Spiked Amount 50.000			Recovery = 107.52%			
86) Terphenyl-d14	11.927	244	1642889	53.47	ppm	-0.05
Spiked Amount 50.000			Recovery = 106.94%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.194	88	187299	43.18	ppm	82
3) Pyridine	2.525	79	545520	49.21	ppm	96
4) N-Nitrosodimethylamine	2.488	42	293121	51.03	ppm	84
6) Indene	4.838	116	905245	50.73	ppm	99
7) Cumene	4.058	105	1369639	52.91	ppm	98
9) Phenol	4.405	94	723599	54.43	ppm #	32
10) Aniline	4.411	93	849406	51.19	ppm	88
11) bis(2-Chloroethyl)ether	4.459	93	508758	52.15	ppm	97
12) 2-Chlorophenol	4.502	128	528516	50.39	ppm	95
13) Decane	4.528	43	453850	50.30	ppm	96
14) 1,3-Dichlorobenzene	4.608	146	606358	50.07	ppm	99
15) 1,4-Dichlorobenzene	4.662	146	611272	49.60	ppm	97
16) Benzyl alcohol	4.758	108	350874	51.27	ppm	90
17) 1,2-Dichlorobenzene	4.774	146	568227	49.66	ppm	98
18) Acetophenone	4.950	105	806073	52.22	ppm	98
19) 2-Methylphenol	4.843	108	504962	52.89	ppm	99
20) 2,2'-oxybis(1-Chloropr...	4.854	121	158519	55.80	ppm #	69
21) 3&4-Methylphenol	4.956	108	1048461	99.29	ppm	99
22) n-Nitroso-di-n-propyla...	4.950	70	440685	57.18	ppm	97
23) Hexachloroethane	5.020	201	231432	52.35	ppm	92
26) Nitrobenzene	5.073	77	676127	55.33	ppm	94
27) Quinoline	5.832	129	1007980	52.60	ppm	94
28) Isophorone	5.244	82	1187476	56.57	ppm	97
29) 2-Nitrophenol	5.298	139	286555	52.98	ppm	79
30) 2,4-Dimethylphenol	5.330	107	607351	52.56	ppm	95
31) Benzoic acid	5.415	105	371515	45.17	ppm	91
32) bis(2-Chloroethoxy)met...	5.394	93	625101	52.56	ppm	99
33) 2,4-Dichlorophenol	5.479	162	455071	52.60	ppm	96
34) 2,6-Dichlorophenol	5.634	162	454334	52.60	ppm	97
35) 1,3,5-Trichlorobenzene	5.303	180	537509	51.83	ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201229.d
Acq On : 18 Aug 2021 3:28 pm
Operator : kristis
Sample : cc8747-50 Inst : GCMSF
Misc : op34584,ef8807,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 18 15:54:33 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Aug 13 08:36:13 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 1,2,4-Trichlorobenzene	5.533	180	527635	52.76	ppm	99
37) 1,2,3-Trichlorobenzene	5.693	180	484398	52.46	ppm	99
38) Naphthalene	5.591	128	1564263	50.96	ppm	98
39) 4-Chloroaniline	5.629	127	660396	52.54	ppm	97
40) 2,3-Dichloroaniline	6.307	161	572001	52.74	ppm	98
41) Hydroquinone	5.864	110	435584	47.86	ppm	98
42) Hexachlorobutadiene	5.672	225	333398	53.49	ppm	97
43) 4-Chloro-3-methylphenol	5.976	107	523284	56.49	ppm	98
44) 2-Methylnaphthalene	6.088	141	954489	53.82	ppm	97
45) 1-Methylnaphthalene	6.163	142	1011973	53.15	ppm	97
47) Hexachlorocyclopentadiene	6.206	237	622081	97.20	ppm	98
48) 1,2,4,5-tetrachloroben...	6.216	216	540216	48.74	ppm	100
49) 2,4,6-Trichlorophenol	6.307	196	367773	50.37	ppm	100
50) 2,4,5-Trichlorophenol	6.339	196	387851	52.57	ppm	97
52) 2-Chloronaphthalene	6.478	162	1049258	50.67	ppm	97
53) Biphenyl	6.457	154	1343194	50.02	ppm	98
54) 2-Nitroaniline	6.564	65	375456	57.63	ppm	95
55) Dimethylphthalate	6.719	163	1247534	53.36	ppm	98
56) Acenaphthylene	6.847	152	1280567	51.50	ppm	99
57) 2,6-Dinitrotoluene	6.777	165	271845	58.81	ppm	97
58) 3-Nitroaniline	6.943	138	285432	54.84	ppm	99
59) Acenaphthene	7.018	153	1031757	49.47	ppm	99
60) 2,4-Dinitrophenol	7.044	184	359565	91.98	ppm	81
61) 4-Nitrophenol	7.125	109	202363	49.10	ppm	88
62) Dibenzofuran	7.194	168	1451288	49.59	ppm	97
63) 2,4-Dinitrotoluene	7.178	165	386284	57.51	ppm	90
64) 2,3,4,6-Tetrachlorophenol	7.328	232	324042	53.89	ppm	96
65) Diethylphthalate	7.450	149	1298949	55.17	ppm	99
66) Fluorene	7.579	166	1217868	51.00	ppm	98
67) 4-Chlorophenyl-phenyle...	7.579	204	631003	52.99	ppm	96
68) 4-Nitroaniline	7.605	138	287618	51.74	ppm	92
70) 4,6-Dinitro-2-methylph...	7.643	198	236796	49.73	ppm	94
71) n-Nitrosodiphenylamine	7.723	169	1084808	50.49	ppm	99
72) 1,2-Diphenylhydrazine	7.776	77	1358386	50.97	ppm	96
74) 4-Bromophenyl-phenylether	8.214	248	390437	53.80	ppm	96
75) Hexachlorobenzene	8.284	284	415089	51.96	ppm	96
76) Pentachlorophenol	8.578	266	578703	108.93	ppm	98
77) Phenanthrene	8.904	178	1775772	49.74	ppm	100
78) Anthracene	8.984	178	1813281	51.35	ppm	100
79) Carbazole	9.261	167	1617769	51.14	ppm	99
80) Di-n-butylphthalate	9.972	149	2179790	55.96	ppm	99
81) Fluoranthene	11.040	202	2025773	53.12	ppm	97
82) Octadecane	8.770	57	688182	53.43	ppm	95
84) Benzidine	11.398	184	1120358	51.62	ppm	100
85) Pyrene	11.489	202	2089395	51.86	ppm	93
87) Butylbenzylphthalate	13.113	149	942668	56.39	ppm	97
88) Benzo[a]anthracene	14.123	228	1987230	53.19	ppm	98
89) 3,3'-Dichlorobenzidine	14.171	252	756729	56.63	ppm	99
90) Chrysene	14.203	228	1950843	51.98	ppm	99
91) bis(2-Ethylhexyl)phtha...	14.529	149	1330570	52.16	ppm	96
93) Di-n-octylphthalate	15.987	149	2219114	50.30	ppm	99
94) Benzo[b]fluoranthene	16.441	252	1971595	54.12	ppm	98
95) Benzo[k]fluoranthene	16.500	252	1904983	54.17	ppm	97
96) Benzo[a]pyrene	17.077	252	1817870	55.87	ppm	97
97) Indeno[1,2,3-cd]pyrene	19.134	276	1534415	53.14	ppm	94
98) Dibenz(a,h)acridine	18.776	279	1500879	53.10	ppm	99
99) Dibenz[a,h]anthracene	19.198	278	1738003	54.55	ppm	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201229.d
Acq On : 18 Aug 2021 3:28 pm
Operator : kristis
Sample : cc8747-50 Inst : GCMSF
Misc : op34584,ef8807,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 18 15:54:33 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Aug 13 08:36:13 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 7,12-Dimethylbenz(a)an...	16.458	256	919732	56.87	ppm	97
101) Benzo[g,h,i]perylene	19.561	276	1794807	53.80	ppm	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

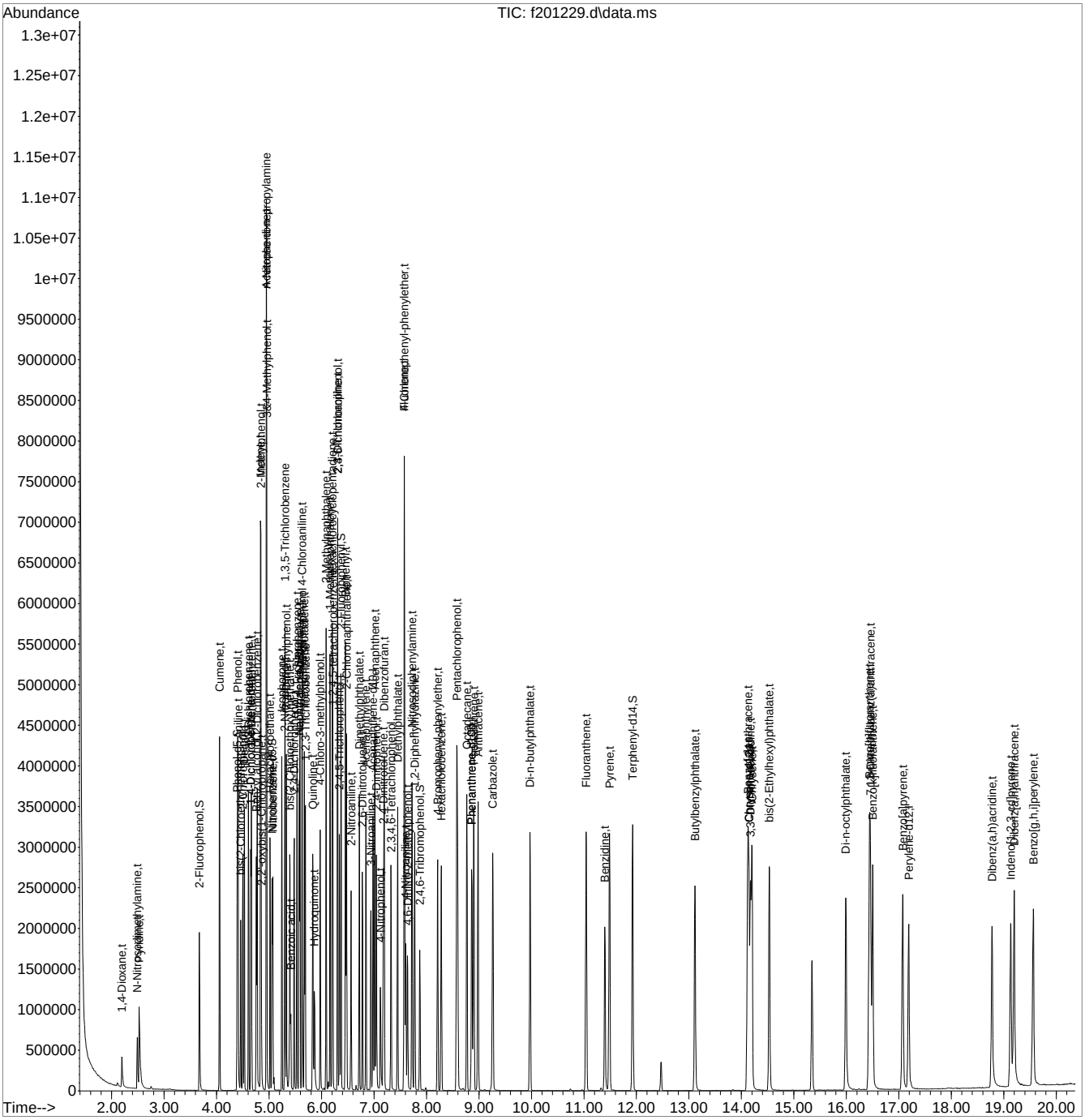
9.6.23

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201229.d
Acq On : 18 Aug 2021 3:28 pm
Operator : kristis
Sample : cc8747-50 Inst : GCMSF
Misc : op34584,ef8807,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 18 15:54:33 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Aug 13 08:36:13 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201230.d
Acq On : 18 Aug 2021 3:56 pm
Operator : kristis
Sample : cc8748-50 Inst : GCMSF
Misc : op34584,ef8807,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 00:33:29 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 17 23:28:01 2021
Response via : Initial Calibration

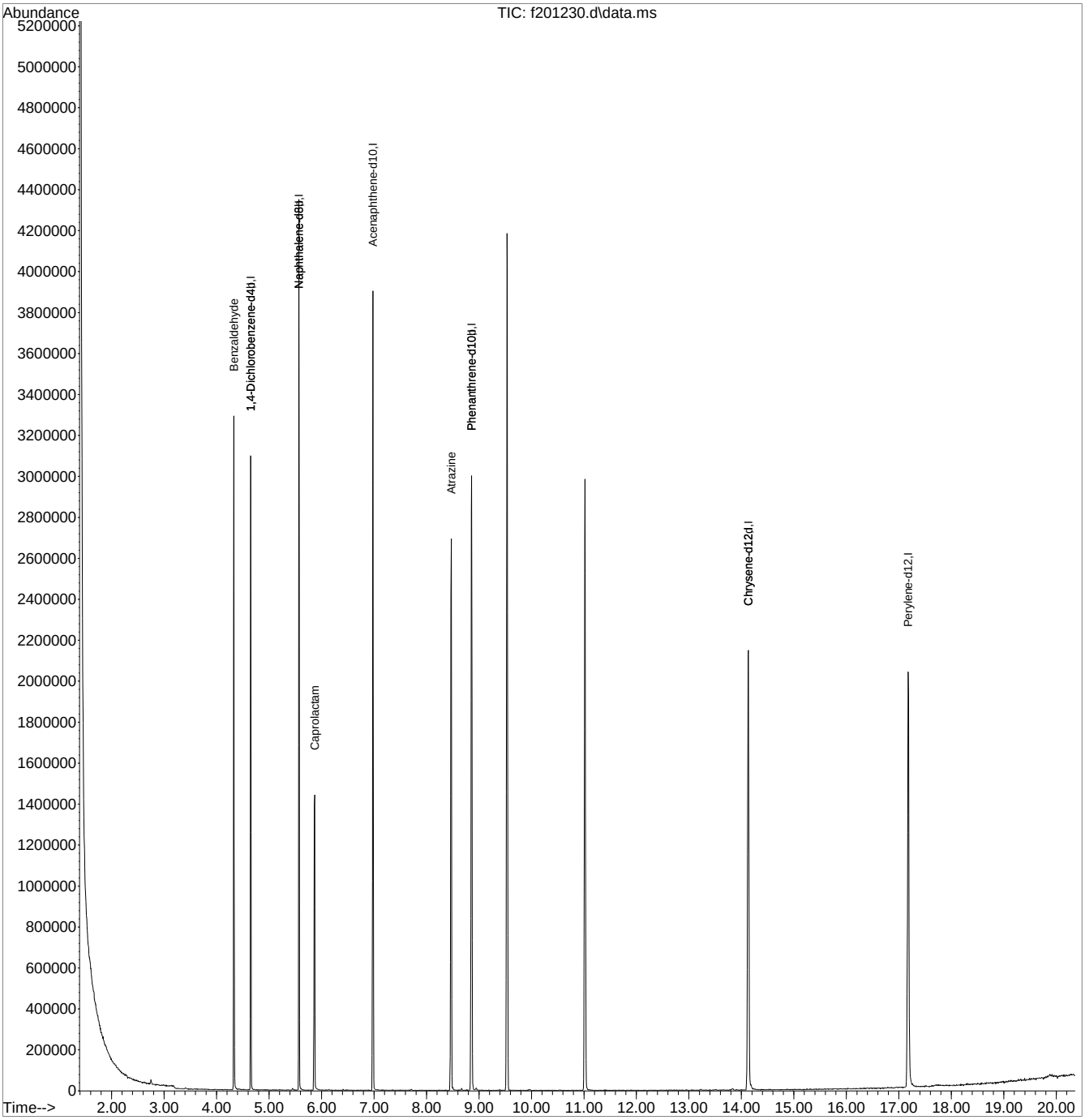
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.651	152	342788	40.00	ppm	0.00
24) Naphthalene-d8	5.570	136	1330612	40.00	ppm	0.00
46) Acenaphthene-d10	6.980	164	783157	40.00	ppm	0.00
69) Phenanthrene-d10	8.861	188	1471886	40.00	ppm	0.00
83) Chrysene-d12	14.134	240	1324833	40.00	ppm	0.00
92) Perylene-d12	17.179	264	1287422	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4b	4.651	152	342788	40.00	ppm	0.00
104) Phenanthrene-d10b	8.861	188	1471886	40.00	ppm	0.00
106) Naphthalene-d8b	5.570	136	1330612	40.00	ppm	0.00
108) Chrysene-d12d	14.134	240	1324833	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
103) Benzaldehyde	4.331	105	462254	52.14	ppm	94
105) Atrazine	8.471	200	400322	60.27	ppm	94
107) Caprolactam	5.869	55	210384	64.05	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\jonkm\081921\ef8807\
Data File : f201230.d
Acq On : 18 Aug 2021 3:56 pm
Operator : kristis
Sample : cc8748-50 Inst : GCMSF
Misc : op34584,ef8807,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\MF8747.M
Quant Results File: MF8747.RES
Quant Time: Aug 19 00:33:29 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 17 23:28:01 2021
Response via : Initial Calibration



GCMS Semi Volatile Run Log — SGS - Dayton — Instrument ID: GCMSF

Standard / Reagent	Lot #	Concentration	Standard / Reagent	Lot #	Concentration
DFTPP	sv20-2751-117	50ppm	ISTD	CL16354	4000ppm
BNA	sv21-2811-25a	100ppm	DCM/fisher	213452	---
BNA	sv21-2811-25b	80ppm	BNA	sv21-2811-25h	1ppm
BNA	sv21-2811-25c	50ppm	SVOC1	sv21-2811-11	50ppm
BNA	sv21-2811-25d	25ppm	SVOC2	sv21-2811-12	50ppm
BNA	sv21-2811-25e	10ppm	SVOC4	sv21-2811-13	50ppm
BNA	sv21-2811-25f	5ppm	ABN Surr	op21-2630-66	50ppm
BNA	sv21-2811-25g	2ppm			

Run Batch:	EF8747	**ACQ. Method:**	MF8747	**Sequence Loaded By:**	chriss2
Date:	6/26/2021	**Reference Method:**	8270E/8270D/625	**Data Processed By:**	ying li
Column:	DB-UI 8270D 30mx0.25mmx0.25um	**Quant Methods:**	MF8747	**Approved By:**	ninap
Injection Volume:	1uL	**Initial Calib Date:**	6/26/2021	**Approved Date**	06/28/21

MP Missed Peak, **OP** Overlapping Peak **SP** Split Peak, **PDB** Poorly Defined Baselin **BR** Baseline Ripple **PII** Poor Instrument Integration

Data File		ALS	Sample ID	OP Batch ID	Test / Method	MTX	DF	Manually Integrated Peaks Rational Peak #	L+	Surr OK?	IS OK?	Run OK?	Comment
F	200123	1	DFTPP									N	51 low, drop flow
F	200124	1	DFTPP									N	51 low, up flow
F	200125	1	DFTPP									N	51 low, drop repeller
F	200126	1	DFTPP									N	51 low, drop repeller
F	200127	1	DFTPP									N	51 low, target tune
F	200128	1	DFTPP									ok	2:25 am
F	200129	2	IC8747-1		BNA			pII				ok	
F	200130	3	IC8747-2					pII				ok	

GCMS Semi Volatile Run Log

Data File		ALS	Sample ID	OP Batch ID	Test / Method	MTX	DF	Manually Integrated Peaks Rational Peak #	L+	Surr OK?	IS OK?	Run OK?	Comment
F	200131	4	IC8747-5									ok	
F	200132	5	IC8747-10									ok	
F	200133	6	IC8747-25									ok	
F	200134	7	ICC8747-50									ok	
F	200135	8	IC8747-80									ok	
F	200136	9	IC8747-100									ok	
F	200137	10	ICV8747-50		SVOC1							ok	
F	200138	11	ICV8747-50		SVOC2							ok	
F	200139	12	ICV8747-50		SVOC4							ok	
F	200140	13	ICV8747-50		ABN Surr							ng	not for dod 7:27am

GCMS Semi Volatile Run Log SGS - Dayton Instrument ID: GCMSF

Standard / Reagent	Lot #	Concentration	Standard / Reagent	Lot #	Concentration
DFTPP	sv20-2751-117	50ppm	ISTD	CL16354	4000ppm
TCL42	sv21-2811-10a	100ppm	DCM/fisher	213452	---
TCL42	sv21-2811-10b	80ppm	TCL42	sv21-2811-10h	1ppm
TCL42	sv21-2811-10c	50ppm	SVOC3	sv21-2811-14	50ppm
TCL42	sv21-2811-10d	25ppm	ABN SURR	OP21-2630-66	50 PPM
TCL42	sv21-2811-10e	10ppm	SVOC#1	SV20-2751-106	50
TCL42	sv21-2811-10f	5ppm	SVOC#3	SV21-2811-14	50
TCL42	sv21-2811-10g	2ppm			

Run Batch:	EF8748	**ACQ. Method:**	MF8747	**Sequence Loaded By:**	chriss2
Date:	6/26/2021	**Reference Method:**	8270E/8270D/625	**Data Processed By:**	ying li
Column:	DB-UI 8270D 30mx0.25mmx0.25um	**Quant Methods:**	MF8747	**Approved By:**	ninap
Injection Volume:	1uL	**Initial Calib Date:**	6/26/2021	**Approved Date**	06/28/21

MP Missed Peak, **OP** Overlapping Peak **SP** Split Peak, **PDB** Poorly Defined Baselin **BR** Baseline Ripple **PII** Poor Instrument Integration

Data File		ALS	Sample ID	OP Batch ID	Test / Method	MTX	DF	Manually Integrated Peaks Rational Peak #	L+	Surr OK?	IS OK?	Run OK?	Comment
F	200141	1	DFTPP									ok	7:50am
F	200142	14	IC8748-100		TCL42							ok	
F	200143	15	IC8748-80									ok	
F	200144	16	ICC8748-50									ok	
F	200145	17	IC8748-25									ok	
F	200146	18	IC8748-10									ok	
F	200147	19	IC8748-5									ok	
F	200148	20	IC8748-2									ok	

GCMS Semi Volatile Run Log

Data File		ALS	Sample ID	OP Batch ID	Test / Method	MTX	DF	Manually Integrated Peaks Rational Peak #	L+	Surr OK?	IS OK?	Run OK?	Comment
F	200149	21	IC8748-1									ok	
F	200150	22	ICV8748-50		SVOC3							ok	not good for dod
F	200151	23	ICV8748-50		ABN SURR							ok	
F	200152	24	ICV8748-50		SVOA#1							ok	
F	200153	25	ICV8747-50		SVOC3							ok	12:46pm

GCMS Semi Volatile Run Log — SGS - Dayton — Instrument ID: GCMSF

Standard / Reagent	Lot #	Concentration	Standard / Reagent	Lot #	Concentration
DFTPP	sv21-2811-20	50ppm	ISTD	CL16354	4000ppm
BNA	sv21-2811-25c	50ppm	DCM/fisher	213452	---
tcl42	sv21-281110c	50ppm			

Run Batch:	EF8807	**ACQ. Method:**	mf8747	**Sequence Loaded By:**	kristis
Date:	8/18/2021	**Reference Method:**	82570e	**Data Processed By:**	jonkm
Column:	DB-UI 8270D 30mx0.25mmx0.25um	**Quant Methods:**	MF8747	**Approved By:**	
Injection Volume:	1uL	**Initial Calib Date:**	6/26/2021	**Approved Date**	

MP Missed Peak, **OP** Overlapping Peak **SP** Split Peak, **PDB** Poorly Defined Baselin **BR** Baseline Ripple **PII** Poor Instrument Integration

Data File		ALS	Sample ID	OP Batch ID	Test / Method	MTX	DF	Manually Integrated Peaks Rational Peak #	L+	Surr OK?	IS OK?	Run OK?	Comment
F	201228	1	DFTPP									ok	3:15pm
F	201229	2	CC8747-50									ok	
F	201230	3	CC8748-50									ok	
F	201231	4	OP34922-MB1	OP34922	AB8270TCL20+	SO			X	y	y	ok	
F	201232a	5	OP34922-BS1	OP34922	AB8270TCL20+	SO			X	y	y	ok	software shut down- rerstarted as A data file
F	201233	6	JD29971-1	OP34922	B8270PAH	SO				y	y	ok	
F	201234	7	JD29971-2	OP34922	B8270PAH	SO				y	y	ok	
F	201235	8	JD29971-3	OP34922	B8270TCL20+	SO			X	y	y	ok	

GCMS Semi Volatile Run Log

Data File		ALS	Sample ID	OP Batch ID	Test / Method	MTX	DF	Manually Integrated Peaks Rational Peak #	L+	Surr OK?	IS OK?	Run OK?	Comment
F	201236	9	JD29923-1	OP34922	AB8270TCL20+	SO			X	y	y	ok	
F	201237	10	JD29923-4	OP34922	AB8270TCL20+	SO			X	y	y	ok	
F	201238	11	JD29923-5	OP34922	AB8270TCL20+	SO			X	y	y	ok	
F	201239	12	JD29923-6	OP34922	AB8270TCL20+	SO			X	y	y	ok	
F	201240	13	JD29923-7	OP34922	AB8270TCL20+	SO			X	y	y	ok	
F	201241	14	JD29923-8	OP34922	AB8270TCL20+	SO			X	y	y	ok	
F	201242	15	JD29923-2	OP34922	AB8270TCL20+	SO			X	y	y	ok	
F	201243	16	JD29923-3	OP34922	AB8270TCL20+	SO			X	y	y	ok	
F	201244	17	JD29940-1	OP34922	AB8270TCL20+	SO			X	y	y	ok	
F	201245	18	OP34922-MS	OP34922	AB8270TCL20+	SO		pii	X	y	y	ok	
F	201246	19	OP34922-MSD	OP34922	AB8270TCL20+	SO		pii	X	y	y	ok	
F	201247	20	OP34947-LS19	OP34947	AB8270TCLP	SO				y	y	ok	
F	201248	21	OP34947-MSD	OP34947	AB8270TCLP	SO				y	y	ok	
F	201249	22	JD29937-1	OP34922	AB8270TCL20+	SO			X	y	y	ok	
F	201250	23	JD29938-1	OP34922	AB8270TCL20+	SO		pii	X	y	y	ok	(02:48)
F	201251	24	JD29988-6	OP34922	B8270PAH	SO							cut for clock
F	201252	25	JD29988-7	OP34922	B8270PAH	SO							cut for clock

LOGBOOK ID:

ABN Extraction Log - Solids

Date started: 8/18/2021 Time started: 09:10
Date finished: 8/18/2021 Time finished: 14:40

Extract Method (CHECK OFF "√" DO NOT CIRCLE):
Microwave SW3546 ____ Sonication SW3550C ____
Waste Dil. SW3580A ____ Soxhlet SW3540C ____

BATCH # MSOP34922 RACK# R-46

Weighed by: JD
Extracted by: SO
Concentrated by: SO
Final Vol. Top-up:
Vialed by: JD
Supervisor Review: KM 8.18.2021

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt Spiked

WITNESS SIGN: SPIKE SIGN:
Manager/Supervisor/Team Lead Approval:

SPECIAL PROCESSING INSTRUCTIONS
Rx Reason:
Spiking:
Weights/Volumes:
Required MS/MSD:
Final Volume:
Other: HT: 8/27 Due: 8/20

Sample #	Analysis Type	Sample Size #	Sample Description	Sample Wet Wt (g) Dry (g) Liq (mL)	Decant Y	Decant N	Sonicator ID	Microwave ID	Final Extract Color	Final Extract Vol (mL)	GPC Cleanup	Comments
MB1	ABN		sand	30.0			12		clear	1.0		
BS1			sand	30.0			12		yellow	1.0		
JD29923-1 MS		2	soil	10.5		✓	12		yellow	1.0		
MSD		2	soil	11.2		✓	12		yellow	1.0		
BS D			sand	30.0			12		yellow	1.0		
MS												
MSD												
BS												
MS												
MSD												
JD29923-1	ABN	2	soil	11.3	✓		12		clear	1.0		
-2		2	clay	30.0	✓		12		orange	1.0		
-3		2	soil	30.1	✓		12		orange	1.0		
-4		2	soil	30.4	✓		12		clear	1.0		
-5		2	soil	31.3	✓		12		clear	1.0		
-6		2	soil	30.3	✓		12		yellow	1.0		
-7		2	soil	30.0	✓		12		clear	1.0		
-8		2	soil	30.7	✓		12		clear	1.0		
JD29937-1		3	soil	30.1	✓		12		brown	1.0		
JD29938-1		3	soil	31.3	✓		12		brown	1.0		
JD29940-1		1	soil	20.0	✓		12		orange	1.0		
JD29991-1		1	sand	31.1		✓	12		yellow	1.0		
-2		1	sand	30.3		✓	12		yellow	1.0		
-3		1	sand	30.5		✓	12		yellow	1.0		
~~JD29991-4~~ JD29988-6		1	soil	31.4		✓	12		brown	1.0		
JD29988-7		1	soil	30.4		✓	12		brown	1.0		

Comments: QC Samples (MS, MSD, LINK and/or DUP, Link) Confirmed by:
*reuse water due to small available sample
@ reuse residue

Equipment/ Range	ID #	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Electronic
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	10	76.2	–	–	OK
Waterbath Chiller (GPM)	V-3	2660	–	–	OK
HEVAP (35-38°C, LFM)	2	35.0	–	–	10
Balance	837	N/A	N/A	N/A	N/A

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	212630-90	50	1.0
ABN DOD SUR			
WITNESS SIGN: KM		SPIKE SIGN: CC	

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid			Acid
Acid (for SIM)			Acid (SIM)
Base/N mix 1	212630-93	50/100	1.0
Base mix 2	212630-94	50	1.0
Archive			
BSIN			
WITNESS SIGN: KM		SPIKE SIGN: CC	

SOLVENT	LOT #	BRAND	AMT (mL)
1:1 METH CHLOR/ ACETONE	210265 210381	Fisher	30.0
METH CHLOR	210265	Fisher	var

REAGENT	LOT #	BAKE BATCH #	BRAND
HYDROMATRIX	6437643	5/19/21	Agilent
SODIUM SULFATE	206607	5/19/21	Fisher
FILTER PAPER	17253339	–	Fisher

MATRIX	LOT #	BAKE BATCH #	BRAND
SAND	8631801163 A	4-13 19A	Fisher

SGS
Form: OP019A-10
Rev Date: 8/2/17

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GC/LC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- DDT/Endrin Breakdown Checks
- GC Identification Summaries (Hits)
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34925-MB1	1G169078.D	1	08/19/21	TC	08/19/21	OP34925	G1G5787

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD29923-1, JD29923-2, JD29923-3, JD29923-4, JD29923-5, JD29923-6, JD29923-7, JD29923-8

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.67	0.55	ug/kg	
319-84-6	alpha-BHC	ND	0.67	0.54	ug/kg	
319-85-7	beta-BHC	ND	0.67	0.60	ug/kg	
319-86-8	delta-BHC	ND	0.67	0.64	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.67	0.49	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.67	0.54	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.67	0.30	ug/kg	
60-57-1	Dieldrin	ND	0.67	0.46	ug/kg	
72-54-8	4,4'-DDD	ND	0.67	0.61	ug/kg	
72-55-9	4,4'-DDE	ND	0.67	0.58	ug/kg	
50-29-3	4,4'-DDT	ND	0.67	0.59	ug/kg	
72-20-8	Endrin	ND	0.67	0.52	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.67	0.52	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.67	0.38	ug/kg	
959-98-8	Endosulfan-I	ND	0.67	0.38	ug/kg	
33213-65-9	Endosulfan-II	ND	0.67	0.42	ug/kg	
76-44-8	Heptachlor	ND	0.67	0.57	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.67	0.47	ug/kg	
72-43-5	Methoxychlor	ND	1.3	0.53	ug/kg	
53494-70-5	Endrin ketone	ND	0.67	0.48	ug/kg	
8001-35-2	Toxaphene	ND	17	16	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	87%	27-138%
877-09-8	Tetrachloro-m-xylene	91%	27-138%
2051-24-3	Decachlorobiphenyl	91%	10-179%
2051-24-3	Decachlorobiphenyl	91%	10-179%

Method Blank Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34926-MB1	RK2834.D	1	08/19/21	TC	08/19/21	OP34926	GRK77

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD29923-1, JD29923-2, JD29923-3, JD29923-4, JD29923-5, JD29923-6, JD29923-7, JD29923-8

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	16	ug/kg	
11104-28-2	Aroclor 1221	ND	33	21	ug/kg	
11141-16-5	Aroclor 1232	ND	33	21	ug/kg	
53469-21-9	Aroclor 1242	ND	33	14	ug/kg	
12672-29-6	Aroclor 1248	ND	33	30	ug/kg	
11097-69-1	Aroclor 1254	ND	33	18	ug/kg	
11096-82-5	Aroclor 1260	ND	33	14	ug/kg	
11100-14-4	Aroclor 1268	ND	33	14	ug/kg	
37324-23-5	Aroclor 1262	ND	33	22	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	109%	24-152%
877-09-8	Tetrachloro-m-xylene	138%	24-152%
2051-24-3	Decachlorobiphenyl	102%	10-172%
2051-24-3	Decachlorobiphenyl	112%	10-172%

Blank Spike Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34925-BS1	1G169079.D	1	08/19/21	TC	08/19/21	OP34925	G1G5787

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD29923-1, JD29923-2, JD29923-3, JD29923-4, JD29923-5, JD29923-6, JD29923-7, JD29923-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
309-00-2	Aldrin	16.7	16.2	97	40-150
319-84-6	alpha-BHC	16.7	15.2	91	37-150
319-85-7	beta-BHC	16.7	15.7	94	43-144
319-86-8	delta-BHC	16.7	14.3	86	15-142
58-89-9	gamma-BHC (Lindane)	16.7	14.9	89	39-148
5103-71-9	alpha-Chlordane	16.7	16.0	96	38-148
5103-74-2	gamma-Chlordane	16.7	15.1	91	37-151
60-57-1	Dieldrin	16.7	15.6	94	39-150
72-54-8	4,4'-DDD	16.7	14.1	85	36-144
72-55-9	4,4'-DDE	16.7	14.2	85	35-146
50-29-3	4,4'-DDT	16.7	12.8	77	36-152
72-20-8	Endrin	16.7	15.6	94	39-152
1031-07-8	Endosulfan sulfate	16.7	14.5	87	35-145
7421-93-4	Endrin aldehyde	16.7	14.4	86	34-143
959-98-8	Endosulfan-I	16.7	15.3	92	39-147
33213-65-9	Endosulfan-II	16.7	13.9	83	39-144
76-44-8	Heptachlor	16.7	15.5	93	40-149
1024-57-3	Heptachlor epoxide	16.7	14.9	89	39-149
72-43-5	Methoxychlor	16.7	14.0	84	35-145
53494-70-5	Endrin ketone	16.7	14.0	84	35-153

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	86%	27-138%
877-09-8	Tetrachloro-m-xylene	90%	27-138%
2051-24-3	Decachlorobiphenyl	92%	10-179%
2051-24-3	Decachlorobiphenyl	89%	10-179%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34926-BS1	RK2835.D	1	08/19/21	TC	08/19/21	OP34926	GRK77

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD29923-1, JD29923-2, JD29923-3, JD29923-4, JD29923-5, JD29923-6, JD29923-7, JD29923-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	133	182	136	39-169
11104-28-2	Aroclor 1221		ND		50-150
11141-16-5	Aroclor 1232		ND		50-150
53469-21-9	Aroclor 1242		ND		50-150
12672-29-6	Aroclor 1248		ND		50-150
11097-69-1	Aroclor 1254		ND		50-150
11096-82-5	Aroclor 1260	133	160	120	41-171
11100-14-4	Aroclor 1268		ND		50-150
37324-23-5	Aroclor 1262		ND		50-150

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	112%	24-152%
877-09-8	Tetrachloro-m-xylene	134%	24-152%
2051-24-3	Decachlorobiphenyl	107%	10-172%
2051-24-3	Decachlorobiphenyl	116%	10-172%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34925-MS	1G169082.D	1	08/19/21	TC	08/19/21	OP34925	G1G5787
OP34925-MSD	1G169083.D	1	08/19/21	TC	08/19/21	OP34925	G1G5787
JD29923-1	1G169081.D	1	08/19/21	TC	08/19/21	OP34925	G1G5787

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD29923-1, JD29923-2, JD29923-3, JD29923-4, JD29923-5, JD29923-6, JD29923-7, JD29923-8

CAS No.	Compound	JD29923-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		17.1	15.5	91	17.1	15.1	88	3	13-180/73
319-84-6	alpha-BHC	ND		17.1	13.8	81	17.1	13.7	80	1	16-173/64
319-85-7	beta-BHC	ND		17.1	13.8	81	17.1	13.7	80	1	10-186/86
319-86-8	delta-BHC	ND		17.1	13.6	79	17.1	13.4	78	1	10-161/78
58-89-9	gamma-BHC (Lindane)	ND		17.1	13.6	79	17.1	13.3	78	2	10-187/71
5103-71-9	alpha-Chlordane	ND		17.1	14.3	84	17.1	13.6	79	5	10-200/60
5103-74-2	gamma-Chlordane	ND		17.1	13.5	79	17.1	13.2	77	2	10-200/72
60-57-1	Dieldrin	ND		17.1	15.4	90	17.1	15.0	88	3	10-187/64
72-54-8	4,4'-DDD	ND		17.1	13.3	78	17.1	13.0	76	2	10-182/69
72-55-9	4,4'-DDE	ND		17.1	13.2	77	17.1	12.4	72	6	10-185/68
50-29-3	4,4'-DDT	ND		17.1	15.2	89	17.1	14.5	85	5	10-200/76
72-20-8	Endrin	ND		17.1	14.6	85	17.1	14.4	84	1	10-193/73
1031-07-8	Endosulfan sulfate	ND		17.1	12.7	74	17.1	13.4	78	5	10-156/63
7421-93-4	Endrin aldehyde	ND		17.1	13.6	79	17.1	13.2	77	3	10-200/82
959-98-8	Endosulfan-I	ND		17.1	16.1	94	17.1	15.5	91	4	10-197/65
33213-65-9	Endosulfan-II	ND		17.1	12.2	71	17.1	12.4	72	2	8-169/60
76-44-8	Heptachlor	ND		17.1	14.6	85	17.1	14.2	83	3	10-187/65
1024-57-3	Heptachlor epoxide	ND		17.1	14.1	82	17.1	13.9	81	1	10-198/65
72-43-5	Methoxychlor	ND		17.1	13.8	81	17.1	14.0	82	1	10-200/80
53494-70-5	Endrin ketone	ND		17.1	14.1	82	17.1	14.8	86	5	10-200/66
8001-35-2	Toxaphene	ND			ND			ND		nc	50-150/30

CAS No.	Surrogate Recoveries	MS	MSD	JD29923-1	Limits
877-09-8	Tetrachloro-m-xylene	74%	73%	85%	27-138%
877-09-8	Tetrachloro-m-xylene	80%	78%	92%	27-138%
2051-24-3	Decachlorobiphenyl	76%	81%	86%	10-179%
2051-24-3	Decachlorobiphenyl	77%	77%	92%	10-179%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34926-MS	RK2848.D	1	08/19/21	TC	08/19/21	OP34926	GRK77
OP34926-MSD	RK2849.D	1	08/19/21	TC	08/19/21	OP34926	GRK77
JD29923-2	RK2847.D	1	08/19/21	TC	08/19/21	OP34926	GRK77

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD29923-1, JD29923-2, JD29923-3, JD29923-4, JD29923-5, JD29923-6, JD29923-7, JD29923-8

CAS No.	Compound	JD29923-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		144	151	105	149	126	85	18	14-200/59
11104-28-2	Aroclor 1221	ND			ND			ND		nc	50-150/30
11141-16-5	Aroclor 1232	ND			ND			ND		nc	50-150/30
53469-21-9	Aroclor 1242	ND			ND			ND		nc	50-150/11
12672-29-6	Aroclor 1248	ND			ND			ND		nc	50-150/25
11097-69-1	Aroclor 1254	ND			ND			ND		nc	50-150/37
11096-82-5	Aroclor 1260	ND		144	97.4	68	149	92.0	62	6	10-200/59
11100-14-4	Aroclor 1268	ND			ND			ND		nc	50-150/30
37324-23-5	Aroclor 1262	ND			ND			ND		nc	50-150/10

CAS No.	Surrogate Recoveries	MS	MSD	JD29923-2	Limits
877-09-8	Tetrachloro-m-xylene	81%	81%	75%	24-152%
877-09-8	Tetrachloro-m-xylene	96%	88%	93%	24-152%
2051-24-3	Decachlorobiphenyl	56%	47%	48%	10-172%
2051-24-3	Decachlorobiphenyl	100%	96%	99%	10-172%

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Check Std:	G1G5787-CC5651	**Injection Date:**	08/19/21
Lab File ID:	1G169075.D	**Injection Time:**	14:51
Instrument ID:	GC1G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	170479636	1.86	738365773	1.58
Upper Limit [a]	340959272	2.36	1476731546	2.08
Lower Limit [b]	85239818	1.36	369182887	1.08

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
ZZZZZZ	171470417	1.86	775583660	1.58
OP34925-MB1	172520020	1.86	740986280	1.58
OP34925-BS1	177501784	1.86	815141483	1.58
ZZZZZZ	172986454	1.86	775242292	1.58
JD29923-1	167545303	1.86	786917897	1.58
OP34925-MS	174129109	1.86	818338717	1.58
OP34925-MSD	180789289	1.86	843870128	1.58
JD29923-4	182186149	1.86	846522096	1.58
JD29923-5	167429735	1.86	784953728	1.58
JD29923-6	178409026	1.86	844949175	1.58
JD29923-7	174293628	1.86	838430482	1.58
JD29923-8	175236612	1.86	796345125	1.58
JD29923-2	194710584	1.87	845616379	1.58
JD29923-3	197702827	1.87	817017764	1.58
ZZZZZZ	173960721	1.87	772722809	1.58
ZZZZZZ	180044004	1.86	841378009	1.58
ZZZZZZ	179915320	1.86	757589966	1.58
ZZZZZZ	177743046	1.87	820899974	1.58

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

DDT/Endrin Breakdown Check

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample:	G1G5651-DDT	**Injection Date:**	05/13/21
Lab File ID:	1G166078.D	**Injection Time:**	22:34
Instrument ID:	GC1G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	10771314	2325568
4,4'-DDE	19628625	4369331
4,4'-DDT	1543508901	381988516
DDT Breakdown [a]	1.9 %	1.7 %
Endrin aldehyde	0	0
Endrin ketone	5280959	23049144
Endrin	893692316	244261824
Endrin Breakdown [b]	0.6 %	8.6 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G5651-IC5651	1G166080.D	05/13/21	23:11	00:37	Initial cal 1
G1G5651-IC5651	1G166081.D	05/13/21	23:29	00:55	Initial cal 2
G1G5651-IC5651	1G166082.D	05/13/21	23:48	01:14	Initial cal 5
G1G5651-IC5651	1G166083.D	05/14/21	00:06	01:32	Initial cal 10
G1G5651-ICC5651	1G166084.D	05/14/21	00:24	01:50	Initial cal 25
G1G5651-IC5651	1G166085.D	05/14/21	00:43	02:09	Initial cal 50
G1G5651-IC5651	1G166086.D	05/14/21	01:01	02:27	Initial cal 75
G1G5651-IC5651	1G166087.D	05/14/21	01:19	02:45	Initial cal 100
G1G5651-IC5651	1G166088.D	05/14/21	01:38	03:04	Initial cal 500
G1G5651-IC5651	1G166089.D	05/14/21	01:56	03:22	Initial cal 500
G1G5651-ICV5651	1G166091.D	05/14/21	02:33	03:59	Initial cal verification 500
G1G5651-ICV5651	1G166092.D	05/14/21	02:51	04:17	Initial cal verification 500
G1G5651-ICV5651	1G166093.D	05/14/21	03:09	04:35	Initial cal verification 25
G1G5651-ICV5651	1G166094.D	05/14/21	03:28	04:54	Initial cal verification 25

DDT/Endrin Breakdown Check

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Sample: G1G5787-DDT
Lab File ID: 1G169074.D
Instrument ID: GC1G
Injection Date: 08/19/21
Injection Time: 14:33

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	16725925	5170795
4,4'-DDE	21769518	4462573
4,4'-DDT	1363707616	273248119
DDT Breakdown [a]	2.7 %	3.4 %
Endrin aldehyde	15594254	1543655
Endrin ketone	18621049	1932423
Endrin	871481960	210953066
Endrin Breakdown [b]	3.8 %	1.6 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G5787-CC5651	1G169075.D	08/19/21	14:51	00:18	Continuing cal 50
ZZZZZZ	1G169077.D	08/19/21	15:31	00:58	(unrelated sample)
OP34925-MB1	1G169078.D	08/19/21	17:11	02:38	Method Blank
OP34925-BS1	1G169079.D	08/19/21	17:29	02:56	Blank Spike
ZZZZZZ	1G169080.D	08/19/21	17:47	03:14	(unrelated sample)
JD29923-1	1G169081.D	08/19/21	18:05	03:32	SB-1 (6-6.5)
OP34925-MS	1G169082.D	08/19/21	18:24	03:51	Matrix Spike
OP34925-MSD	1G169083.D	08/19/21	18:42	04:09	Matrix Spike Duplicate
JD29923-4	1G169084.D	08/19/21	19:00	04:27	SB-5 (6-6.5)
JD29923-5	1G169085.D	08/19/21	19:18	04:45	SB-6 (9.5-10.0)
JD29923-6	1G169086.D	08/19/21	19:36	05:03	SB-8 (9.5-10.0)
JD29923-7	1G169087.D	08/19/21	19:54	05:21	SB-9 (7.5-8.0)
JD29923-8	1G169088.D	08/19/21	20:12	05:39	SB-10 (7.5-8.0)
JD29923-2	1G169089.D	08/19/21	20:30	05:57	SB-2 (4.5-5.0)
JD29923-3	1G169090.D	08/19/21	20:48	06:15	SB-3 (6-6.5)
ZZZZZZ	1G169092.D	08/19/21	21:25	06:52	(unrelated sample)
ZZZZZZ	1G169093.D	08/19/21	21:43	07:10	(unrelated sample)
ZZZZZZ	1G169094.D	08/19/21	22:01	07:28	(unrelated sample)
ZZZZZZ	1G169095.D	08/19/21	22:19	07:46	(unrelated sample)

GC Identification Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Check Std:	G1G5787-CC5651	**Injection Date:**	08/19/21
Lab File ID:	1G169075.D	**Injection Time:**	14:51
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	JD29923-2	**Injection Date:**	08/19/21
Lab File ID:	1G169089.D	**Injection Time:**	20:30
Client ID:	SB-2 (4.5-5.0)		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
alpha-Chlordane	1	4.50	4.51	2.1		ug/kg	62.5
alpha-Chlordane [a]	2 [b]	6.12	6.12	1.1		ug/kg	
gamma-Chlordane [a]	1 [b]	4.34	4.34	0.58	J	ug/kg	50.3
gamma-Chlordane [a]	2	5.88	5.89	0.97		ug/kg	
4,4'-DDE	1	4.62	4.64	2.0		ug/kg	58.1
4,4'-DDE [a]	2 [b]	6.39	6.40	1.1		ug/kg	
4,4'-DDT	1 [b]	5.89	5.91	2.1		ug/kg	17.4
4,4'-DDT	2	7.98	7.99	2.5		ug/kg	
Endosulfan-I	1 [b]	4.68	4.68	0.83		ug/kg	28.0
Endosulfan-I	2	6.23	6.23	1.1		ug/kg	
Heptachlor epoxide [a]	1 [b]	4.18	4.18	0.79		ug/kg	78.0
Heptachlor epoxide [a]	2	5.58	5.58	1.8		ug/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.

GC Identification Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Check Std:	G1G5787-CC5651	**Injection Date:**	08/19/21
Lab File ID:	1G169075.D	**Injection Time:**	14:51
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	JD29923-3	**Injection Date:**	08/19/21
Lab File ID:	1G169090.D	**Injection Time:**	20:48
Client ID:	SB-3 (6-6.5)		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
alpha-Chlordane	1	4.51	4.51	2.3		ug/kg	42.1
alpha-Chlordane [a]	2 [b]	6.12	6.12	1.5		ug/kg	
gamma-Chlordane	1 [b]	4.34	4.34	1.1		ug/kg	16.7
gamma-Chlordane	2	5.88	5.89	1.3		ug/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.

GC Identification Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Check Std:	G1G5787-CC5651	**Injection Date:**	08/19/21
Lab File ID:	1G169075.D	**Injection Time:**	14:51
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP34925-BS1	**Injection Date:**	08/19/21
Lab File ID:	1G169079.D	**Injection Time:**	17:29
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	3.49	3.49	16.2		ug/kg	35.9
Aldrin	2	4.72	4.73	23.3		ug/kg	
alpha-BHC	1	2.46	2.46	15.4		ug/kg	1.3
alpha-BHC	2 [a]	3.24	3.24	15.2		ug/kg	
beta-BHC	1	2.80	2.79	16.2		ug/kg	3.1
beta-BHC	2 [a]	3.76	3.76	15.7		ug/kg	
delta-BHC	1	2.97	2.97	15.1		ug/kg	5.4
delta-BHC	2 [a]	4.16	4.16	14.3		ug/kg	
gamma-BHC (Lindane)	1	2.72	2.72	15.3		ug/kg	2.6
gamma-BHC (Lindane)	2 [a]	3.67	3.67	14.9		ug/kg	
alpha-Chlordane	1	4.51	4.51	17.5		ug/kg	9.0
alpha-Chlordane	2 [a]	6.12	6.12	16.0		ug/kg	
gamma-Chlordane	1 [a]	4.34	4.34	15.1		ug/kg	3.3
gamma-Chlordane	2	5.88	5.89	15.6		ug/kg	
Dieldrin	1	5.01	5.01	17.2		ug/kg	9.8
Dieldrin	2 [a]	6.69	6.69	15.6		ug/kg	
4,4'-DDD	1	5.49	5.50	14.9		ug/kg	5.5
4,4'-DDD	2 [a]	7.42	7.43	14.1		ug/kg	
4,4'-DDE	1 [a]	4.64	4.64	14.2		ug/kg	8.1
4,4'-DDE	2	6.40	6.40	15.4		ug/kg	
4,4'-DDT	1	5.91	5.91	16.6		ug/kg	25.9
4,4'-DDT	2 [a]	7.99	7.99	12.8		ug/kg	
Endrin	1	5.33	5.33	16.3		ug/kg	4.4
Endrin	2 [a]	7.23	7.23	15.6		ug/kg	
Endosulfan sulfate	1	7.01	7.01	15.2		ug/kg	4.7
Endosulfan sulfate	2 [a]	8.73	8.73	14.5		ug/kg	
Endrin aldehyde	1 [a]	6.30	6.30	14.4		ug/kg	3.4
Endrin aldehyde	2	8.22	8.22	14.9		ug/kg	
Endosulfan-I	1	4.68	4.68	18.7		ug/kg	20.0
Endosulfan-I	2 [a]	6.23	6.23	15.3		ug/kg	
Endosulfan-II	1 [a]	5.66	5.66	13.9		ug/kg	8.9
Endosulfan-II	2	7.61	7.61	15.2		ug/kg	
Heptachlor	1	3.18	3.18	16.2		ug/kg	4.4
Heptachlor	2 [a]	4.26	4.26	15.5		ug/kg	
Heptachlor epoxide	1	4.18	4.18	15.6		ug/kg	4.6
Heptachlor epoxide	2 [a]	5.58	5.58	14.9		ug/kg	
Methoxychlor	1	6.74	6.75	15.6		ug/kg	10.8
Methoxychlor	2 [a]	9.33	9.33	14.0		ug/kg	
Endrin ketone	1	7.47	7.47	16.3		ug/kg	15.2
Endrin ketone	2 [a]	9.72	9.72	14.0		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Check Std:	G1G5787-CC5651	**Injection Date:**	08/19/21
Lab File ID:	1G169075.D	**Injection Time:**	14:51
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP34925-MS	**Injection Date:**	08/19/21
Lab File ID:	1G169082.D	**Injection Time:**	18:24
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	3.49	3.49	15.5		ug/kg	24.9
Aldrin	2	4.72	4.73	19.9		ug/kg	
alpha-BHC	1 [a]	2.46	2.46	13.8		ug/kg	0.7
alpha-BHC	2	3.24	3.24	13.7		ug/kg	
beta-BHC	1 [a]	2.80	2.79	13.8		ug/kg	2.9
beta-BHC	2	3.76	3.76	14.2		ug/kg	
delta-BHC	1 [a]	2.97	2.97	13.6		ug/kg	3.0
delta-BHC	2	4.17	4.16	13.2		ug/kg	
gamma-BHC (Lindane)	1 [a]	2.72	2.72	13.6		ug/kg	0.7
gamma-BHC (Lindane)	2	3.67	3.67	13.5		ug/kg	
alpha-Chlordane	1 [a]	4.51	4.51	14.3		ug/kg	4.8
alpha-Chlordane	2	6.12	6.12	15.0		ug/kg	
gamma-Chlordane	1 [a]	4.34	4.34	13.5		ug/kg	7.1
gamma-Chlordane	2	5.88	5.89	14.5		ug/kg	
Dieldrin	1 [a]	5.01	5.01	15.4		ug/kg	6.0
Dieldrin	2	6.69	6.69	14.5		ug/kg	
4,4'-DDD	1 [a]	5.49	5.50	13.3		ug/kg	2.3
4,4'-DDD	2	7.42	7.43	13.0		ug/kg	
4,4'-DDE	1 [a]	4.64	4.64	13.2		ug/kg	6.6
4,4'-DDE	2	6.40	6.40	14.1		ug/kg	
4,4'-DDT	1 [a]	5.91	5.91	15.2		ug/kg	23.5
4,4'-DDT	2	7.99	7.99	12.0		ug/kg	
Endrin	1 [a]	5.33	5.33	14.6		ug/kg	6.4
Endrin	2	7.23	7.23	13.7		ug/kg	
Endosulfan sulfate	1 [a]	7.01	7.01	12.7		ug/kg	17.9
Endosulfan sulfate	2	8.73	8.73	15.2		ug/kg	
Endrin aldehyde	1 [a]	6.30	6.30	13.6		ug/kg	8.5
Endrin aldehyde	2	8.22	8.22	14.8		ug/kg	
Endosulfan-I	1 [a]	4.68	4.68	16.1		ug/kg	14.0
Endosulfan-I	2	6.23	6.23	14.0		ug/kg	
Endosulfan-II	1 [a]	5.66	5.66	12.2		ug/kg	13.0
Endosulfan-II	2	7.61	7.61	13.9		ug/kg	
Heptachlor	1 [a]	3.18	3.18	14.6		ug/kg	2.8
Heptachlor	2	4.26	4.26	14.2		ug/kg	
Heptachlor epoxide	1 [a]	4.18	4.18	14.1		ug/kg	2.9
Heptachlor epoxide	2	5.58	5.58	13.7		ug/kg	
Methoxychlor	1 [a]	6.74	6.75	13.8		ug/kg	16.5
Methoxychlor	2	9.32	9.33	11.7		ug/kg	
Endrin ketone	1 [a]	7.47	7.47	14.1		ug/kg	6.6
Endrin ketone	2	9.72	9.72	13.2		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Check Std:	G1G5787-CC5651	**Injection Date:**	08/19/21
Lab File ID:	1G169075.D	**Injection Time:**	14:51
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP34925-MSD	**Injection Date:**	08/19/21
Lab File ID:	1G169083.D	**Injection Time:**	18:42
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	3.49	3.49	15.1		ug/kg	23.4
Aldrin	2	4.72	4.73	19.1		ug/kg	
alpha-BHC	1 [a]	2.45	2.46	13.7		ug/kg	3.0
alpha-BHC	2	3.24	3.24	13.3		ug/kg	
beta-BHC	1 [a]	2.80	2.79	13.7		ug/kg	5.0
beta-BHC	2	3.76	3.76	14.4		ug/kg	
delta-BHC	1 [a]	2.97	2.97	13.4		ug/kg	5.4
delta-BHC	2	4.16	4.16	12.7		ug/kg	
gamma-BHC (Lindane)	1 [a]	2.72	2.72	13.3		ug/kg	1.5
gamma-BHC (Lindane)	2	3.67	3.67	13.1		ug/kg	
alpha-Chlordane	1 [a]	4.51	4.51	13.6		ug/kg	5.7
alpha-Chlordane	2	6.12	6.12	14.4		ug/kg	
gamma-Chlordane	1 [a]	4.34	4.34	13.2		ug/kg	5.9
gamma-Chlordane	2	5.88	5.89	14.0		ug/kg	
Dieldrin	1 [a]	5.01	5.01	15.0		ug/kg	6.9
Dieldrin	2	6.69	6.69	14.0		ug/kg	
4,4'-DDD	1 [a]	5.49	5.50	13.0		ug/kg	2.3
4,4'-DDD	2	7.42	7.43	12.7		ug/kg	
4,4'-DDE	1 [a]	4.64	4.64	12.4		ug/kg	10.7
4,4'-DDE	2	6.40	6.40	13.8		ug/kg	
4,4'-DDT	1 [a]	5.91	5.91	14.5		ug/kg	14.0
4,4'-DDT	2	7.99	7.99	12.6		ug/kg	
Endrin	1 [a]	5.33	5.33	14.4		ug/kg	6.5
Endrin	2	7.23	7.23	13.5		ug/kg	
Endosulfan sulfate	1 [a]	7.01	7.01	13.4		ug/kg	1.5
Endosulfan sulfate	2	8.73	8.73	13.6		ug/kg	
Endrin aldehyde	1 [a]	6.30	6.30	13.2		ug/kg	10.1
Endrin aldehyde	2	8.22	8.22	14.6		ug/kg	
Endosulfan-I	1 [a]	4.68	4.68	15.5		ug/kg	12.3
Endosulfan-I	2	6.23	6.23	13.7		ug/kg	
Endosulfan-II	1 [a]	5.66	5.66	12.4		ug/kg	10.7
Endosulfan-II	2	7.61	7.61	13.8		ug/kg	
Heptachlor	1 [a]	3.18	3.18	14.2		ug/kg	3.6
Heptachlor	2	4.26	4.26	13.7		ug/kg	
Heptachlor epoxide	1 [a]	4.18	4.18	13.9		ug/kg	5.2
Heptachlor epoxide	2	5.58	5.58	13.2		ug/kg	
Methoxychlor	1 [a]	6.74	6.75	14.0		ug/kg	9.7
Methoxychlor	2	9.33	9.33	12.7		ug/kg	
Endrin ketone	1 [a]	7.47	7.47	14.8		ug/kg	11.4
Endrin ketone	2	9.72	9.72	13.2		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Check Std:	GRK77-CC50	**Injection Date:**	08/19/21
Lab File ID:	RK2831.D	**Injection Time:**	13:32
Instrument ID:	GCRK	**Method:**	SW846 8082A

Sample ID:	OP34926-BS1	**Injection Date:**	08/19/21
Lab File ID:	RK2835.D	**Injection Time:**	16:56
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1 [a]			182		ug/kg	1.6
Aroclor 1016	2			185		ug/kg	
AR1016-A	1	3.17	3.17	260		ug/kg	
AR1016-A	2	4.41	4.42	247		ug/kg	
AR1016-B	1	3.56	3.56	166		ug/kg	
AR1016-B	2	4.99	4.99	163		ug/kg	
AR1016-C	1	4.10	4.10	154		ug/kg	
AR1016-C	2	5.63	5.63	171		ug/kg	
AR1016-D	1	4.27	4.27	163		ug/kg	
AR1016-D	2	5.82	5.82	174		ug/kg	
AR1016-E	1	4.77	4.77	165		ug/kg	
AR1016-E	2	6.49	6.49	168		ug/kg	
Aroclor 1260	1 [a]			160		ug/kg	2.5
Aroclor 1260	2			164		ug/kg	
AR1260-A	1	7.13	7.12	155		ug/kg	
AR1260-A	2	9.12	9.12	157		ug/kg	
AR1260-B	1	7.28	7.28	169		ug/kg	
AR1260-B	2	9.24	9.24	174		ug/kg	
AR1260-C	1	7.62	7.61	168		ug/kg	
AR1260-C	2	9.68	9.68	163		ug/kg	
AR1260-D	1	8.05	8.05	149		ug/kg	
AR1260-D	2	10.03	10.03	173		ug/kg	
AR1260-E	1	8.44	8.44	159		ug/kg	
AR1260-E	2	10.57	10.57	153		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Check Std:	GRK77-CC50	**Injection Date:**	08/19/21
Lab File ID:	RK2842.D	**Injection Time:**	18:52
Instrument ID:	GCRK	**Method:**	SW846 8082A

Sample ID:	OP34926-MS	**Injection Date:**	08/19/21
Lab File ID:	RK2848.D	**Injection Time:**	20:30
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1 [a]			151		ug/kg	5.4
Aroclor 1016	2			143		ug/kg	
AR1016-A	1	3.17	3.17	259		ug/kg	
AR1016-A	2	4.41	4.42	175		ug/kg	
AR1016-B	1	3.56	3.56	145		ug/kg	
AR1016-B	2	4.98	4.99	127		ug/kg	
AR1016-C	1	4.10	4.10	114		ug/kg	
AR1016-C	2	5.63	5.63	131		ug/kg	
AR1016-D	1	4.27	4.27	125		ug/kg	
AR1016-D	2	5.82	5.82	120		ug/kg	
AR1016-E	1	4.77	4.77	115		ug/kg	
AR1016-E	2	6.49	6.49	164		ug/kg	
Aroclor 1260	1 [a]			97.4		ug/kg	58.0
Aroclor 1260	2			177		ug/kg	
AR1260-A	1	7.12	7.13	105		ug/kg	
AR1260-A	2	9.12	9.12	167		ug/kg	
AR1260-B	1	7.28	7.28	97.4		ug/kg	
AR1260-B	2	9.24	9.24	163		ug/kg	
AR1260-C	1	7.61	7.62	92.8		ug/kg	
AR1260-C	2	9.67	9.68	177		ug/kg	
AR1260-D	1	8.04	8.05	102		ug/kg	
AR1260-D	2	10.02	10.03	159		ug/kg	
AR1260-E	1	8.43	8.44	89.9		ug/kg	
AR1260-E	2	10.62	10.57	222		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Check Std:	GRK77-CC50	**Injection Date:**	08/19/21
Lab File ID:	RK2842.D	**Injection Time:**	18:52
Instrument ID:	GCRK	**Method:**	SW846 8082A

Sample ID:	OP34926-MSD	**Injection Date:**	08/19/21
Lab File ID:	RK2849.D	**Injection Time:**	20:47
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1 [a]			126		ug/kg	6.2
Aroclor 1016	2			134		ug/kg	
AR1016-A	1	3.17	3.17	159		ug/kg	
AR1016-A	2	4.41	4.42	147		ug/kg	
AR1016-B	1	3.56	3.56	126		ug/kg	
AR1016-B	2	4.98	4.99	120		ug/kg	
AR1016-C	1	4.10	4.10	111		ug/kg	
AR1016-C	2	5.63	5.63	126		ug/kg	
AR1016-D	1	4.27	4.27	120		ug/kg	
AR1016-D	2	5.82	5.82	120		ug/kg	
AR1016-E	1	4.77	4.77	114		ug/kg	
AR1016-E	2	6.49	6.49	155		ug/kg	
Aroclor 1260	1 [a]			92.0		ug/kg	56.8
Aroclor 1260	2			165		ug/kg	
AR1260-A	1	7.12	7.13	100		ug/kg	
AR1260-A	2	9.12	9.12	164		ug/kg	
AR1260-B	1	7.28	7.28	93.1		ug/kg	
AR1260-B	2	9.24	9.24	157		ug/kg	
AR1260-C	1	7.61	7.62	90.1		ug/kg	
AR1260-C	2	9.67	9.68	160		ug/kg	
AR1260-D	1	8.04	8.05	95.3		ug/kg	
AR1260-D	2	10.02	10.03	151		ug/kg	
AR1260-E	1	8.43	8.44	81.2		ug/kg	
AR1260-E	2	10.57	10.57	191		ug/kg	

(a) QC results reported from this column.

Surrogate Recovery Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Method: SW846 8081B **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD29923-1	1G169081.D	85	92	86	92
JD29923-2	1G169089.D	79	82	53	71
JD29923-3	1G169090.D	67	69	42	56
JD29923-4	1G169084.D	95	99	96	95
JD29923-5	1G169085.D	78	84	84	81
JD29923-6	1G169086.D	65	69	67	68
JD29923-7	1G169087.D	80	86	82	83
JD29923-8	1G169088.D	90	93	98	92
OP34925-BS1	1G169079.D	86	90	92	89
OP34925-MB1	1G169078.D	87	91	91	91
OP34925-MS	1G169082.D	74	80	76	77
OP34925-MSD	1G169083.D	73	78	81	77

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	27-138%
S2 = Decachlorobiphenyl	10-179%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

Surrogate Recovery Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Method: SW846 8082A **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD29923-1	RK2836.D	99	120	92	100
JD29923-2	RK2847.D	75	93	48	99
JD29923-3	RK2846.D	73	90	48	82
JD29923-4	RK2837.D	102	124	95	103
JD29923-5	RK2838.D	95	115	89	97
JD29923-6	RK2839.D	76	92	72	76
JD29923-7	RK2844.D	95	114	90	98
JD29923-8	RK2845.D	94	113	92	102
OP34926-BS1	RK2835.D	112	134	107	116
OP34926-MB1	RK2834.D	109	138	102	112
OP34926-MS	RK2848.D	81	96	56	100
OP34926-MSD	RK2849.D	81	88	47	96

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	24-152%
S2 = Decachlorobiphenyl	10-172%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Check Std:	G1G5787-CC5651	**Injection Date:**	08/19/21
Lab File ID:	1G169075.D	**Injection Time:**	14:51
Instrument ID:	GC1G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	2.05	2.60	9.42	11.56

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
ZZZZZZ	1G169077.D	08/19/21	15:31	2.05	2.60	9.41	11.56
OP34925-MB1	1G169078.D	08/19/21	17:11	2.05	2.60	9.42	11.58
OP34925-BS1	1G169079.D	08/19/21	17:29	2.05	2.60	9.41	11.57
ZZZZZZ	1G169080.D	08/19/21	17:47	2.05	2.60	9.41	11.57
JD29923-1	1G169081.D	08/19/21	18:05	2.05	2.60	9.41	11.57
OP34925-MS	1G169082.D	08/19/21	18:24	2.05	2.60	9.41	11.57
OP34925-MSD	1G169083.D	08/19/21	18:42	2.05	2.60	9.41	11.56
JD29923-4	1G169084.D	08/19/21	19:00	2.05	2.60	9.41	11.56
JD29923-5	1G169085.D	08/19/21	19:18	2.05	2.60	9.41	11.56
JD29923-6	1G169086.D	08/19/21	19:36	2.05	2.60	9.41	11.57
JD29923-7	1G169087.D	08/19/21	19:54	2.05	2.60	9.42	11.56
JD29923-8	1G169088.D	08/19/21	20:12	2.05	2.60	9.41	11.56
JD29923-2	1G169089.D	08/19/21	20:30	2.06	2.61	9.40	11.55
JD29923-3	1G169090.D	08/19/21	20:48	2.06	2.61	9.41	11.56
ZZZZZZ	1G169092.D	08/19/21	21:25	2.06	2.61	9.41	11.56
ZZZZZZ	1G169093.D	08/19/21	21:43	2.06	2.61	9.41	11.55
ZZZZZZ	1G169094.D	08/19/21	22:01	2.05	2.61	9.41	11.56
ZZZZZZ	1G169095.D	08/19/21	22:19	2.06	2.61	9.41	11.56

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Check Std:	GRK77-CC50	**Injection Date:**	08/19/21
Lab File ID:	RK2831.D	**Injection Time:**	13:32
Instrument ID:	GCRK	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	2.80	3.74	9.96	12.25

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP34926-MB1	RK2834.D	08/19/21	16:40	2.80	3.73	9.97	12.24
OP34926-BS1	RK2835.D	08/19/21	16:56	2.80	3.74	9.97	12.25
JD29923-1	RK2836.D	08/19/21	17:13	2.80	3.74	9.97	12.25
JD29923-4	RK2837.D	08/19/21	17:29	2.80	3.74	9.97	12.25
JD29923-5	RK2838.D	08/19/21	17:46	2.80	3.74	9.97	12.25
JD29923-6	RK2839.D	08/19/21	18:02	2.80	3.74	9.97	12.25

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD29923
Account: SESINJPB SESI Consulting Engineers
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Check Std:	GRK77-CC50	**Injection Date:**	08/19/21
Lab File ID:	RK2842.D	**Injection Time:**	18:52
Instrument ID:	GCRK	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	2.80	3.74	9.97	12.25

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
JD29923-7	RK2844.D	08/19/21	19:25	2.80	3.74	9.97	12.25
JD29923-8	RK2845.D	08/19/21	19:41	2.80	3.74	9.97	12.25
JD29923-3	RK2846.D	08/19/21	19:57	2.80	3.74	9.96	12.24
JD29923-2	RK2847.D	08/19/21	20:14	2.80	3.74	9.96	12.24
OP34926-MS	RK2848.D	08/19/21	20:30	2.80	3.74	9.96	12.24
OP34926-MSD	RK2849.D	08/19/21	20:47	2.80	3.74	9.96	12.24

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

Initial Calibration Summary

Job Number: JD29923 **Sample:** G1G5651-ICC5651
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1G166084.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Response Factor Report HP G1530A

Method : C:\MSDCHEM\1\METHODS\1PST5651.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri May 14 21:42:38 2021
Response via : Initial Calibration

Calibration Files
2 =1g166081.D 5 =1g166082.D 10 =1g166083.D 25 =1g166084.D
50 =1g166085.D 100 =1g166087.D 1 =1g166080.D 75 =1g166086.D

Compound	2	5	10	25	50	100	1	75	Avg	%RSD
1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	0.976	0.864	0.907	0.857	0.846	0.858	1.228	0.854	0.924	14.11
3) Hexachlorobe	1.439	1.386	1.397	1.330	1.287	1.301	1.428	1.313	1.360	4.38
4) alpha-BHC	1.406	1.298	1.322	1.317	1.316	1.375	1.353	1.367	1.344	2.74
5) gamma-BHC	1.291	1.185	1.214	1.184	1.184	1.226	1.294	1.236	1.227	3.68
6) Heptachlor	1.289	1.212	1.206	1.161	1.138	1.168	1.302	1.185	1.208	4.92
7) beta-BHC	0.632	0.476	0.544	0.524	0.510	0.516	0.531	0.528	0.533	8.41
8) delta-BHC	1.094	1.095	1.221	1.190	1.207	1.236	1.197	1.243	1.185	4.98
9) Aldrin	1.210	1.135	1.131	1.106	1.080	1.105	1.202	1.113	1.135	4.13
10) Alachlor		0.155	0.140	0.132	0.125	0.125		0.124	0.133	9.05
11) Heptachlor E	1.297	1.099	1.068	1.031	1.011	1.015	1.295	1.031	1.106	10.93
12) gamma-Chlord	1.244	1.060	1.093	1.067	1.046	1.069	1.675	1.080	1.167	18.40
13) alpha-Chlord	1.312	1.057	1.037	1.058	1.008	1.019	1.048	1.030	1.071	9.23
14) Endosulfan I	1.129	1.081	1.114	1.124	1.072	1.087	1.158	1.090	1.107	2.64
15) 4,4'-DDE	1.050	0.947	0.983	0.987	0.964	0.986	1.070	0.993	0.998	4.17
16) Dieldrin	1.152	1.100	1.112	1.074	1.072	1.092	1.214	1.101	1.115	4.24
17) Endrin	1.183	1.076	1.105	1.079	1.060	1.070	1.243	1.086	1.113	5.86
18) 4,4'-DDD	1.017	0.790	0.840	0.891	0.859	0.877	0.830	0.885	0.874	7.63
19) Endosulfan I	1.077	0.962	0.979	0.990	0.956	0.964	1.060	0.971	0.995	4.70
20) 4,4'-DDT	0.938	0.835	0.904	0.895	0.888	0.919	0.885	0.920	0.898	3.47
21) Endrin Aldeh	1.115	0.787	0.813	0.786	0.755	0.759	0.852	0.765	0.829	14.44
22) Endosulfan S	0.997	0.930	0.923	0.899	0.880	0.898	1.197	0.923	0.956	10.83
23) Methoxychlor	0.687	0.538	0.478	0.459	0.456	0.454	0.523	0.463	0.507	15.65
24) Mirex	0.959	0.820	0.812	0.761	0.721	0.719	0.772	0.739	0.788	9.99
25) Endrin Keton	0.981	1.019	1.011	0.977	0.949	0.967	1.072	0.983	0.995	3.86
26) Decachlorobi	1.038	0.935	1.021	0.897	0.858	0.852	1.122	0.868	0.949	10.56
27) I 1-bromo-2-nitrobenzen	ISTD									
28) Toxaphene{A}				0.008					0.008	0.00
29) Toxaphene{B}				0.027					0.027	0.00
30) Toxaphene{C}				0.027					0.027	0.00
31) Toxaphene{D}				0.010					0.010	0.00
32) Toxaphene{E}				0.023					0.023	0.00
33) I 1-bromo-2-nitrobenzen	ISTD									
34) Chlordane {A				0.033					0.033	0.00
35) Chlordane {B				0.038					0.038	0.00
36) Chlordane {C				0.134					0.134	0.00
37) Chlordane {D				0.227					0.227	0.00
38) Chlordane {E				0.041					0.041	0.00

Signal #2

Compound	2	5	10	25	50	100	1	75	Avg	%RSD
1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	0.638	0.608	0.598	0.593	0.590	0.614	0.638	0.599	0.610	3.15

Initial Calibration Summary

Job Number: JD29923 **Sample:** G1G5651-ICC5651
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1G166084.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

3)	Hexachlorobe	1.505	1.442	1.446	1.433	1.439	1.492	1.519	1.459	1.467	2.27
4)	alpha-BHC	1.262	1.196	1.249	1.327	1.406	1.525	1.279	1.478	1.340	8.76
5)	gamma-BHC	1.193	1.102	1.142	1.197	1.261	1.365	1.172	1.315	1.218	7.29
6)	Heptachlor	1.305	1.161	1.230	1.244	1.287	1.353	1.267	1.316	1.270	4.68
7)	beta-BHC	0.470	0.465	0.466	0.468	0.473	0.489	0.388	0.476	0.462	6.68
8)	delta-BHC	1.171	1.076	1.132	1.175	1.268	1.390	1.075	1.331	1.202	9.69
9)	Aldrin	1.167	1.131	1.143	1.160	1.201	1.277	1.173	1.244	1.187	4.28
10)	Alachlor		0.131	0.134	0.122	0.119	0.118		0.119	0.124	5.65
11)	Heptachlor E	1.239	1.114	1.104	1.072	1.114	1.169	1.507	1.143	1.183	11.87
12)	gamma-Chlord	1.104	1.036	1.040	1.046	1.084	1.160	1.018	1.121	1.076	4.60
13)	alpha-Chlord	1.075	0.992	1.017	1.017	1.050	1.117	1.052	1.084	1.050	3.91
14)	Endosulfan I	1.077	1.016	1.047	1.056	1.065	1.115	1.167	1.090	1.079	4.28
15)	4,4'-DDE	1.083	1.006	1.071	1.042	1.058	1.117	0.924	1.094	1.049	5.80
16)	Dieldrin	1.290	1.151	1.107	1.113	1.148	1.217	1.359	1.177	1.195	7.44
17)	Endrin	1.135	1.079	1.055	1.050	1.094	1.154	1.137	1.126	1.104	3.60
18)	4,4'-DDD	0.852	0.794	0.769	0.751	0.783	0.830	0.833	0.816	0.803	4.33
19)	Endosulfan I	1.024	0.969	0.997	0.931	0.970	1.015	1.006	0.998	0.989	3.09
20)	4,4'-DDT	0.826	0.695	0.724	0.748	0.787	0.851	0.584	0.821	0.755	11.60
21)	Endrin Aldeh	0.794	0.686	0.764	0.733	0.745	0.768	0.761	0.751	0.750	4.19
22)	Endosulfan S	0.894	0.866	0.863	0.841	0.863	0.910	0.870	0.885	0.874	2.46
23)	Methoxychlor	0.396	0.367	0.383	0.384	0.395	0.400	0.284	0.409	0.377	10.50
24)	Mirex	0.722	0.668	0.668	0.626	0.624	0.631	0.679	0.620	0.655	5.47
25)	Endrin Keton	0.872	0.883	0.917	0.898	0.932	0.974	0.901	0.944	0.915	3.67
26)	Decachlorobi	0.942	0.865	0.802	0.771	0.777	0.800	0.877	0.781	0.827	7.41

27)	I 1-bromo-2-nitrobenzen	----------ISTD----------			
28)	Toxaphene{A}		0.014	0.014	0.00
29)	Toxaphene{B}		0.019	0.019	0.00
30)	Toxaphene{C}		0.038	0.038	0.00
31)	Toxaphene{D}		0.018	0.018	0.00
32)	Toxaphene{E}		0.019	0.019	0.00

33)	I 1-bromo-2-nitrobenzen	----------ISTD----------			
34)	Chlordane {A		0.030	0.030	0.00
35)	Chlordane {B		0.030	0.030	0.00
36)	Chlordane {C		0.112	0.112	0.00
37)	Chlordane {D		0.210	0.210	0.00
38)	Chlordane {E		0.031	0.031	0.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

1PST5651.M Fri May 14 23:00:31 2021

10.9.1 10

Initial Calibration Verification

Job Number: JD29923 **Sample:** G1G5651-ICV5651
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1G166091.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\1G5651\1g166091.D\ECD1A.CH Vial: 14
Signal #2 : C:\msdchem\1\DATA\1G5651\1g166091.D\ECD2B.CH
Acq On    : 14 May 2021   2:33 am                    Operator: christp
Sample    : icv5651-500                              Inst    : HP G1530A
Misc      : op33250,g1g5651,30,,,2,1                 Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST5651.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri May 14 21:42:38 2021
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.55- 1.61
2	SAB	Tetrachloro-m-xylene	0.924	0.924	0.0	114	0.00	2.03- 2.09
3		Hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		Alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
21	B	Endrin Aldehyde		----------NA----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	0.949	0.929	2.1	113	0.00	9.43- 9.49
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	108	0.00	1.48- 1.68
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	97	0.00	1.48- 1.68
34		Chlordane {A}	0.033	0.035	-6.1	102	0.00	3.01- 3.21
35		Chlordane {B}	0.038	0.039	-2.6	101	0.00	3.54- 3.74
36		Chlordane {C}	0.134	0.139	-3.7	101	0.00	4.26- 4.46
37		Chlordane {D}	0.227	0.215	5.3	92	0.00	4.43- 4.63
38		Chlordane {E}	0.041	0.039	4.9	94	0.00	5.50- 5.70

Initial Calibration Verification

Job Number: JD29923 **Sample:** G1G5651-ICV5651
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1G166091.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.84- 1.90
2	SAB	Tetrachloro-m-xylene	0.610	0.636	-4.3	112	0.00	2.59- 2.65
3		Hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		Alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
21	B	Endrin Aldehyde		----------NA----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	0.827	0.804	2.8	108	0.00	11.59-11.65
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	108	0.00	1.77- 1.97
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	88	0.00	1.77- 1.97
34		Chlordane {A}	0.030	0.035	-16.7	103	0.00	3.99- 4.19
35		Chlordane {B}	0.030	0.035	-16.7	100	0.00	4.86- 5.06
36		Chlordane {C}	0.112	0.134	-19.6	104	0.00	5.83- 6.03
37		Chlordane {D}	0.210	0.220	-4.8	92	0.10	6.07- 6.27
38		Chlordane {E}	0.031	0.033	-6.5	91	0.00	7.64- 7.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1g166085.D 1PST5651.M Fri May 14 21:55:29 2021

10.9.2 10

Initial Calibration Verification

Job Number: JD29923 **Sample:** G1G5651-ICV5651
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1G166092.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\1G5651\1g166092.D\ECD1A.CH Vial: 15
Signal #2 : C:\msdchem\1\DATA\1G5651\1g166092.D\ECD2B.CH
Acq On    : 14 May 2021   2:51 am                    Operator: christp
Sample    : icv5651-500                              Inst    : HP G1530A
Misc      : op33250,g1g5651,30,,,2,1                 Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST5651.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri May 14 21:42:38 2021
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	1.55- 1.61
2	SAB	Tetrachloro-m-xylene	0.924	0.930	-0.6	116	0.00	2.03- 2.09
3		Hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		Alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
21	B	Endrin Aldehyde		----------NA----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	0.949	0.940	0.9	116	0.00	9.43- 9.49
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	110	0.00	1.48- 1.68
28	L8	Toxaphene{A}	0.008	0.008	0.0	107	0.00	4.94- 5.14
29	L8	Toxaphene{B}	0.027	0.025	7.4	102	0.00	5.57- 5.77
30	L8	Toxaphene{C}	0.027	0.028	-3.7	114	-0.01	5.74- 5.94
31	L8	Toxaphene{D}	0.010	0.009	10.0	99	0.00	6.22- 6.42
32	L8	Toxaphene{E}	0.023	0.022	4.3	102	0.00	6.79- 6.99
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	99	0.00	1.48- 1.68
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

Initial Calibration Verification

Job Number: JD29923 **Sample:** G1G5651-ICV5651
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1G166092.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	107	0.00	1.84- 1.90
2	SAB	Tetrachloro-m-xylene	0.610	0.644	-5.6	116	0.00	2.59- 2.65
3		Hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		Alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
21	B	Endrin Aldehyde		----------NA----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	0.827	0.818	1.1	112	0.00	11.59-11.65
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	111	0.00	1.77- 1.97
28	L8	Toxaphene{A}	0.014	0.014	0.0	114	0.00	6.60- 6.80
29	L8	Toxaphene{B}	0.019	0.019	0.0	109	0.00	7.53- 7.73
30	L8	Toxaphene{C}	0.038	0.035	7.9	103	0.00	7.70- 7.90
31	L8	Toxaphene{D}	0.018	0.019	-5.6	113	0.00	8.18- 8.38
32	L8	Toxaphene{E}	0.019	0.019	0.0	108	0.00	9.16- 9.36
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	90	0.00	1.77- 1.97
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1g166085.D 1PST5651.M Fri May 14 21:55:30 2021

10.9.3 10

Initial Calibration Verification

Job Number: JD29923 **Sample:** G1G5651-ICV5651
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1G166093.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\1G5651\1g166093.D\ECD1A.CH Vial: 16
Signal #2 : C:\msdchem\1\DATA\1G5651\1g166093.D\ECD2B.CH
Acq On    : 14 May 2021   3:09 am                    Operator: christp
Sample    : icv5651-25                               Inst    : HP G1530A
Misc      : op33250,g1g5651,30,,,2,1                 Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST5651.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri May 14 21:42:38 2021
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.55- 1.61
2	SAB	Tetrachloro-m-xylene		----------NA----------				
3		Hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		Alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
21	B	Endrin Aldehyde		----------NA----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex	0.788	0.804	-2.0	110	0.00	6.87- 6.93
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl		----------NA----------				
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.48- 1.68
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.48- 1.68
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

Initial Calibration Verification

Job Number: JD29923 **Sample:** G1G5651-ICV5651
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1G166093.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	111	0.00	1.84-	1.90
2	SAB	Tetrachloro-m-xylene		----------NA----------					
3		Hexachlorobenzene		----------NA----------					
4	A	alpha-BHC		----------NA----------					
5	MA	gamma-BHC		----------NA----------					
6	MA	Heptachlor		----------NA----------					
7	B	beta-BHC		----------NA----------					
8	B	delta-BHC		----------NA----------					
9	MB	Aldrin		----------NA----------					
10		Alachlor		----------NA----------					
11	B	Heptachlor Epoxide		----------NA----------					
12	B	gamma-Chlordane		----------NA----------					
13	B	alpha-Chlordane		----------NA----------					
14	A	Endosulfan I		----------NA----------					
15	B	4,4'-DDE		----------NA----------					
16	MA	Dieldrin		----------NA----------					
17	MA	Endrin		----------NA----------					
18	A	4,4'-DDD		----------NA----------					
19	B	Endosulfan II		----------NA----------					
20	MA	4,4'-DDT		----------NA----------					
21	B	Endrin Aldehyde		----------NA----------					
22	B	Endosulfan Sulfate		----------NA----------					
23	A	Methoxychlor		----------NA----------					
24		Mirex	0.655	0.642	2.0	114	0.00	9.68-	9.74
25	B	Endrin Ketone		----------NA----------					
26	SA	Decachlorobiphenyl		----------NA----------					
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.77-	1.97
28	L8	Toxaphene{A}		----------NA----------					
29	L8	Toxaphene{B}		----------NA----------					
30	L8	Toxaphene{C}		----------NA----------					
31	L8	Toxaphene{D}		----------NA----------					
32	L8	Toxaphene{E}		----------NA----------					
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.77-	1.97
34		Chlordane {A}		----------NA----------					
35		Chlordane {B}		----------NA----------					
36		Chlordane {C}		----------NA----------					
37		Chlordane {D}		----------NA----------					
38		Chlordane {E}		----------NA----------					

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1g166084.D 1PST5651.M Fri May 14 21:54:58 2021

10.9.4 10

Initial Calibration Verification

Job Number: JD29923 **Sample:** G1G5651-ICV5651
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1G166094.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\1G5651\1g166094.D\ECD1A.CH Vial: 17
Signal #2 : C:\msdchem\1\DATA\1G5651\1g166094.D\ECD2B.CH
Acq On    : 14 May 2021   3:28 am                    Operator: christp
Sample    : icv5651-25                               Inst    : HP G1530A
Misc      : op33250,g1g5651,30,,,2,1                 Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST5651.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri May 14 21:42:38 2021
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	1.55- 1.61
2	SAB	Tetrachloro-m-xylene		----------NA----------				
3		Hexachlorobenzene	1.360	1.371	-0.8	101	0.00	2.31- 2.37
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		Alachlor	0.133	0.147	-10.5	109	0.00	3.61- 3.67
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
21	B	Endrin Aldehyde		----------NA----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl		----------NA----------				
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.48- 1.68
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.48- 1.68
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

Initial Calibration Verification

Job Number: JD29923 **Sample:** G1G5651-ICV5651
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1G166094.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	108	0.00	1.84- 1.90
2	SAB	Tetrachloro-m-xylene		----------NA----------				
3		Hexachlorobenzene	1.467	1.342	8.5	101	0.00	3.08- 3.14
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		Alachlor	0.124	0.119	4.0	105	0.00	4.52- 4.58
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
21	B	Endrin Aldehyde		----------NA----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl		----------NA----------				
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.77- 1.97
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.77- 1.97
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1g166084.D 1PST5651.M Fri May 14 21:55:00 2021

Initial Calibration Verification

Job Number: JD29923 **Sample:** G1G5651-ICV5651
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1G166096A.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\DATA\1G...\1g166096a.D\ECD1A.CH Vial: 5
Signal #2 : C:\msdchem\1\DATA\1G5651\1g166096a.D\ECD2B.CH
Acq On : 14 May 2021 10:29 pm Operator: christp
Sample : icv5651-25 Inst : HP G1530A
Misc : op33250,g1g5651,30,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\1PST5651.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri May 14 21:42:38 2021
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	94	0.00	1.55- 1.61
2	SAB	Tetrachloro-m-xylene	0.924	0.915	1.0	100	0.00	2.02- 2.08
3		Hexachlorobenzene		----------NA----------				
4	A	alpha-BHC	1.344	1.426	-6.1	102	0.00	2.43- 2.49
5	MA	gamma-BHC	1.227	1.308	-6.6	104	0.00	2.70- 2.76
6	MA	Heptachlor	1.208	1.286	-6.5	104	0.00	3.16- 3.22
7	B	beta-BHC	0.533	0.562	-5.4	101	0.00	2.77- 2.83
8	B	delta-BHC	1.185	1.302	-9.9	103	0.00	2.94- 3.00
9	MB	Aldrin	1.135	1.244	-9.6	105	0.00	3.48- 3.54
10		Alachlor		----------NA----------				
11	B	Heptachlor Epoxide	1.106	1.123	-1.5	102	0.00	4.17- 4.23
12	B	gamma-Chlordane	1.167	1.150	1.5	101	0.00	4.33- 4.39
13	B	alpha-Chlordane	1.071	1.133	-5.8	100	0.00	4.50- 4.56
14	A	Endosulfan I	1.107	1.101	0.5	92	0.00	4.67- 4.73
15	B	4,4'-DDE	0.998	1.132	-13.4	108	0.00	4.61- 4.67
16	MA	Dieldrin	1.115	1.177	-5.6	103	0.00	5.00- 5.06
17	MA	Endrin	1.113	1.160	-4.2	101	0.00	5.33- 5.39
18	A	4,4'-DDD	0.874	0.947	-8.4	100	-0.02	5.46- 5.53
19	B	Endosulfan II	0.995	1.059	-6.4	100	0.00	5.66- 5.72
20	MA	4,4'-DDT	0.898	1.013	-12.8	106	-0.01	5.89- 5.95
21	B	Endrin Aldehyde	0.829	0.892	-7.6	106	0.00	6.30- 6.36
22	B	Endosulfan Sulfate	0.956	0.993	-3.9	104	0.00	7.01- 7.07
23	A	Methoxychlor	0.507	0.579	-14.2	118	-0.02	6.72- 6.78
24		Mirex		----------NA----------				
25	B	Endrin Ketone	0.995	1.112	-11.8	107	0.00	7.48- 7.54
26	SA	Decachlorobiphenyl	0.949	0.970	-2.2	101	0.00	9.42- 9.48
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.48- 1.68
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.48- 1.68
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

Initial Calibration Verification

Job Number: JD29923 **Sample:** G1G5651-ICV5651
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1G166096A.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	108	0.00	1.84- 1.90
2	SAB	Tetrachloro-m-xylene	0.610	0.586	3.9	106	0.00	2.59- 2.65
3		Hexachlorobenzene		----------NA----------				
4	A	alpha-BHC	1.340	1.415	-5.6	115	0.00	3.23- 3.29
5	MA	gamma-BHC	1.218	1.277	-4.8	115	0.00	3.66- 3.72
6	MA	Heptachlor	1.270	1.264	0.5	109	0.00	4.26- 4.32
7	B	beta-BHC	0.462	0.468	-1.3	107	0.00	3.75- 3.81
8	B	delta-BHC	1.202	1.291	-7.4	118	0.00	4.16- 4.22
9	MB	Aldrin	1.187	1.218	-2.6	113	0.00	4.73- 4.79
10		Alachlor		----------NA----------				
11	B	Heptachlor Epoxide	1.183	1.127	4.7	113	0.00	5.59- 5.65
12	B	gamma-Chlordane	1.076	1.097	-2.0	113	0.00	5.90- 5.96
13	B	alpha-Chlordane	1.050	1.092	-4.0	116	0.00	6.14- 6.20
14	A	Endosulfan I	1.079	1.083	-0.4	110	0.00	6.24- 6.30
15	B	4,4'-DDE	1.049	1.063	-1.3	110	0.00	6.41- 6.47
16	MA	Dieldrin	1.195	1.153	3.5	111	0.00	6.71- 6.77
17	MA	Endrin	1.104	1.084	1.8	111	0.00	7.25- 7.31
18	A	4,4'-DDD	0.803	0.807	-0.5	116	-0.01	7.43- 7.49
19	B	Endosulfan II	0.989	1.000	-1.1	116	0.00	7.63- 7.69
20	MA	4,4'-DDT	0.755	0.821	-8.7	118	0.00	8.01- 8.07
21	B	Endrin Aldehyde	0.750	0.768	-2.4	113	0.00	8.24- 8.30
22	B	Endosulfan Sulfate	0.874	0.877	-0.3	112	0.00	8.75- 8.81
23	A	Methoxychlor	0.377	0.431	-14.3	120	-0.01	9.34- 9.40
24		Mirex		----------NA----------				
25	B	Endrin Ketone	0.915	0.964	-5.4	116	0.00	9.74- 9.80
26	SA	Decachlorobiphenyl	0.827	0.791	4.4	110	0.00	11.58-11.64
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.77- 1.97
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.77- 1.97
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1g166084.D 1PST5651.M Fri May 14 23:00:08 2021

10.9.6 10

Continuing Calibration Summary

Job Number: JD29923 **Sample:** G1G5787-CC5651
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1G169075.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\data\ch...7\1g169075.d\ECD1A.CH Vial: 4
Signal #2 : C:\msdchem\1\data\chrisc2\1g5787\1g169075.d\ECD2B.CH
Acq On    : 19 Aug 2021   2:51 pm                    Operator: taylorc
Sample    : cc5651-50                                Inst    : HP G1530A
Misc      : op34952,g1g5787,30,,,2,1                 Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1pst5651.m (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Fri Aug 20 00:56:05 2021
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	78	0.00	1.55- 1.61
2	SAB	Tetrachloro-m-xylene	0.924	0.965	-4.4	89	0.00	2.02- 2.08
3		Hexachlorobenzene	1.360	1.456	-7.1	88	0.00	2.31- 2.37
4	A	alpha-BHC	1.344	1.516	-12.8	90	0.00	2.43- 2.49
5	MA	gamma-BHC	1.227	1.308	-6.6	86	0.00	2.69- 2.75
6	MA	Heptachlor	1.208	1.327	-9.9	91	0.00	3.15- 3.21
7	B	beta-BHC	0.533	0.529	0.8	81	0.00	2.76- 2.82
8	B	delta-BHC	1.185	1.252	-5.7	81	0.00	2.94- 3.00
9	MB	Aldrin	1.135	1.248	-10.0	90	0.00	3.46- 3.52
10		Alachlor	0.133	0.129	3.0	80	0.00	3.59- 3.65
11	B	Heptachlor Epoxide	1.106	1.093	1.2	84	0.00	4.15- 4.21
12	B	gamma-Chlordane	1.167	1.096	6.1	82	0.00	4.31- 4.37
13	B	alpha-Chlordane	1.071	1.149	-7.3	89	0.00	4.48- 4.54
14	A	Endosulfan I	1.107	1.310	-18.3	95	0.00	4.65- 4.71
15	B	4,4'-DDE	0.998	0.836	16.2	68	0.00	4.61- 4.67
16	MA	Dieldrin	1.115	1.210	-8.5	88	0.00	4.98- 5.04
17	MA	Endrin	1.113	1.206	-8.4	89	0.00	5.30- 5.36
18	A	4,4'-DDD	0.874	0.914	-4.6	83	0.00	5.46- 5.53
19	B	Endosulfan II	0.995	1.057	-6.2	86	0.00	5.63- 5.69
20	MA	4,4'-DDT	0.898	0.916	-2.0	81	0.00	5.88- 5.94
21	B	Endrin Aldehyde	0.829	0.800	3.5	83	0.00	6.27- 6.33
22	B	Endosulfan Sulfate	0.956	0.960	-0.4	85	0.00	6.98- 7.04
23	A	Methoxychlor	0.507	0.461	9.1	79	0.00	6.72- 6.78
24		Mirex	0.788	0.794	-0.8	86	0.00	6.84- 6.90
25	B	Endrin Ketone	0.995	1.013	-1.8	83	0.00	7.44- 7.50
26	SA	Decachlorobiphenyl	0.949	0.888	6.4	81	0.00	9.39- 9.45
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	81	0.00	1.48- 1.68
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	73	0.00	1.48- 1.68
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

Continuing Calibration Summary

Job Number: JD29923 **Sample:** G1G5787-CC5651
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1G169075.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	76	0.00	1.83- 1.89
2	SAB	Tetrachloro-m-xylene	0.610	0.659	-8.0	84	0.00	2.57- 2.63
3		Hexachlorobenzene	1.467	1.591	-8.5	84	0.00	3.07- 3.13
4	A	alpha-BHC	1.340	1.575	-17.5	85	0.00	3.21- 3.27
5	MA	gamma-BHC	1.218	1.389	-14.0	83	0.00	3.64- 3.70
6	MA	Heptachlor	1.270	1.460	-15.0	86	0.00	4.23- 4.29
7	B	beta-BHC	0.462	0.489	-5.8	78	0.00	3.73- 3.79
8	B	delta-BHC	1.202	1.341	-11.6	80	0.00	4.13- 4.19
9	MB	Aldrin	1.187	1.371	-15.5	86	0.00	4.70- 4.76
10		Alachlor	0.124	0.131	-5.6	83	0.00	4.49- 4.55
11	B	Heptachlor Epoxide	1.183	1.369	-15.7	93	0.00	5.55- 5.61
12	B	gamma-Chlordane	1.076	1.207	-12.2	84	0.00	5.86- 5.92
13	B	alpha-Chlordane	1.050	1.158	-10.3	83	0.00	6.09- 6.15
14	A	Endosulfan I	1.079	1.157	-7.2	82	0.00	6.20- 6.26
15	B	4,4'-DDE	1.049	1.138	-8.5	81	0.00	6.37- 6.43
16	MA	Dieldrin	1.195	1.289	-7.9	85	0.00	6.66- 6.72
17	MA	Endrin	1.104	1.214	-10.0	84	0.00	7.20- 7.26
18	A	4,4'-DDD	0.803	0.843	-5.0	81	0.00	7.40- 7.46
19	B	Endosulfan II	0.989	1.022	-3.3	80	0.00	7.58- 7.64
20	MA	4,4'-DDT	0.755	0.717	5.0	69	0.00	7.96- 8.02
21	B	Endrin Aldehyde	0.750	0.757	-0.9	77	0.00	8.19- 8.25
22	B	Endosulfan Sulfate	0.874	0.940	-7.6	82	0.00	8.70- 8.76
23	A	Methoxychlor	0.377	0.354	6.1	68	0.00	9.30- 9.36
24		Mirex	0.655	0.661	-0.9	80	0.00	9.63- 9.69
25	B	Endrin Ketone	0.915	0.920	-0.5	75	0.00	9.69- 9.75
26	SA	Decachlorobiphenyl	0.827	0.819	1.0	80	0.00	11.53-11.59
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	79	0.00	1.76- 1.96
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	64	0.00	1.76- 1.96
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1g168694.d 1pst5651.m Fri Aug 20 01:47:40 2021

Continuing Calibration Summary

Job Number: JD29923 **Sample:** G1G5788-CC5651
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1G169101.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\DATA\1G5788\1g169101.D\ECD1A.CH Vial: 4
Signal #2 : C:\msdchem\1\DATA\1G5788\1g169101.D\ECD2B.CH
Acq On : 20 Aug 2021 1:09 am Operator: christp
Sample : cc5651-50 Inst : HP G1530A
Misc : op34925,g1g5788,16.5,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\1PST5651.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Jul 28 00:32:33 2021
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	76	0.00	1.55- 1.61
2	SAB	Tetrachloro-m-xylene	0.924	0.960	-3.9	87	0.00	2.02- 2.08
3		Hexachlorobenzene	1.360	1.456	-7.1	86	0.00	2.31- 2.37
4	A	alpha-BHC	1.344	1.495	-11.2	87	0.00	2.42- 2.48
5	MA	gamma-BHC	1.227	1.301	-6.0	84	0.00	2.69- 2.75
6	MA	Heptachlor	1.208	1.312	-8.6	88	0.00	3.14- 3.20
7	B	beta-BHC	0.533	0.526	1.3	79	0.00	2.76- 2.82
8	B	delta-BHC	1.185	1.274	-7.5	81	0.00	2.93- 2.99
9	MB	Aldrin	1.135	1.241	-9.3	88	0.00	3.46- 3.52
10		Alachlor	0.133	0.133	0.0	81	0.00	3.58- 3.64
11	B	Heptachlor Epoxide	1.106	1.108	-0.2	84	0.00	4.14- 4.20
12	B	gamma-Chlordane	1.167	1.130	3.2	83	0.00	4.31- 4.37
13	B	alpha-Chlordane	1.071	1.112	-3.8	84	0.00	4.48- 4.54
14	A	Endosulfan I	1.107	1.227	-10.8	88	0.00	4.65- 4.71
15	B	4,4'-DDE	0.998	1.021	-2.3	81	-0.01	4.60- 4.66
16	MA	Dieldrin	1.115	1.204	-8.0	86	-0.01	4.97- 5.03
17	MA	Endrin	1.113	1.189	-6.8	86	-0.01	5.30- 5.36
18	A	4,4'-DDD	0.874	0.951	-8.8	85	-0.01	5.45- 5.52
19	B	Endosulfan II	0.995	1.030	-3.5	82	-0.01	5.63- 5.69
20	MA	4,4'-DDT	0.898	0.910	-1.3	78	-0.01	5.87- 5.93
21	B	Endrin Aldehyde	0.829	0.883	-6.5	89	-0.01	6.27- 6.33
22	B	Endosulfan Sulfate	0.956	0.978	-2.3	85	-0.02	6.97- 7.03
23	A	Methoxychlor	0.507	0.529	-4.3	89	-0.01	6.70- 6.76
24		Mirex	0.788	0.788	0.0	84	-0.01	6.84- 6.90
25	B	Endrin Ketone	0.995	0.991	0.4	80	-0.02	7.44- 7.50
26	SA	Decachlorobiphenyl	0.949	0.848	10.6	76	-0.02	9.38- 9.44
***** Signal #2 *****								
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	79	0.00	1.83- 1.89
2	SAB	Tetrachloro-m-xylene	0.610	0.631	-3.4	84	0.00	2.57- 2.63
3		Hexachlorobenzene	1.467	1.514	-3.2	83	0.00	3.07- 3.13
4	A	alpha-BHC	1.340	1.500	-11.9	84	0.00	3.21- 3.27
5	MA	gamma-BHC	1.218	1.338	-9.9	83	0.00	3.64- 3.70
6	MA	Heptachlor	1.270	1.413	-11.3	86	-0.01	4.23- 4.29
7	B	beta-BHC	0.462	0.468	-1.3	78	0.00	3.73- 3.79
8	B	delta-BHC	1.202	1.320	-9.8	82	-0.01	4.13- 4.19
9	MB	Aldrin	1.187	1.316	-10.9	86	-0.01	4.69- 4.75
10		Alachlor	0.124	0.124	0.0	82	-0.01	4.48- 4.54
11	B	Heptachlor Epoxide	1.183	1.202	-1.6	85	-0.01	5.55- 5.61
12	B	gamma-Chlordane	1.076	1.185	-10.1	86	-0.01	5.85- 5.91

Continuing Calibration Summary

Job Number: JD29923 **Sample:** G1G5788-CC5651
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** 1G169101.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

13	B	alpha-Chlordane	1.050	1.144	-9.0	86	-0.01	6.09- 6.15
14	A	Endosulfan I	1.079	1.341	-24.3#	99	-0.02	6.20- 6.26
15	B	4,4'-DDE	1.049	1.182	-12.7	88	-0.01	6.37- 6.43
16	MA	Dieldrin	1.195	1.273	-6.5	87	-0.02	6.66- 6.72
17	MA	Endrin	1.104	1.205	-9.1	87	-0.02	7.20- 7.26
18	A	4,4'-DDD	0.803	0.859	-7.0	86	-0.02	7.39- 7.45
19	B	Endosulfan II	0.989	1.011	-2.2	82	-0.02	7.58- 7.64
20	MA	4,4'-DDT	0.755	0.733	2.9	73	-0.02	7.96- 8.02
21	B	Endrin Aldehyde	0.750	0.782	-4.3	82	-0.02	8.19- 8.25
22	B	Endosulfan Sulfate	0.874	0.937	-7.2	85	-0.02	8.70- 8.76
23	A	Methoxychlor	0.377	0.360	4.5	72	-0.02	9.30- 9.36
24		Mirex	0.655	0.652	0.5	82	-0.02	9.63- 9.69
25	B	Endrin Ketone	0.915	0.955	-4.4	80	-0.01	9.69- 9.75
26	SA	Decachlorobiphenyl	0.827	0.836	-1.1	85	-0.02	11.53-11.59

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1g168432.D 1PST5651.M Sun Aug 22 22:55:58 2021

10.9.8
10

Initial Calibration Summary

Job Number: JD29923 **Sample:** GRK50-ICC50
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** RK1855.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

Response Factor Report GCRK

Method : C:\MSDCHEM\1\METHODS\RKPCB50.M (ChemStation Integrator)
Title :
Last Update : Sun Jul 25 08:32:03 2021
Response via : Initial Calibration

Calibration Files
50 =rk1852.d 250 =rk1853.d 500 =rk1854.d 1000=rk1855.d
2000 =rk1856.d 3000 =rk1857.d

	Compound	50	250	500	1000	2000	3000	Avg	%RSD
1) S	Tetrachloro-m-xylen	1.423	1.527	1.488	1.541	1.492	1.508	1.497 E7	2.77
2)	AR1221-A				1.027			1.027 E5	0.00
3)	AR1221-B				1.636			1.636 E5	0.00
4)	AR1221-C				4.983			4.983 E5	0.00
5)	AR1221-D				7.873			7.873 E4	0.00
6)	AR1221-E				4.742			4.742 E4	0.00
7)	AR1232-A				3.790			3.790 E5	0.00
8)	AR1232-B				2.671			2.671 E5	0.00
9)	AR1232-C				5.762			5.762 E5	0.00
10)	AR1232-D				2.173			2.173 E5	0.00
11)	AR1232-E				2.117			2.117 E5	0.00
12)	AR1242-A				4.539			4.539 E5	0.00
13)	AR1242-B				1.053			1.053 E6	0.00
14)	AR1242-C				3.948			3.948 E5	0.00
15)	AR1242-D				6.203			6.203 E5	0.00
16)	AR1242-E				4.257			4.257 E5	0.00
17)	AR1248-A				2.322			2.322 E5	0.00
18)	AR1248-B				6.920			6.920 E5	0.00
19)	AR1248-C				9.459			9.459 E5	0.00
20)	AR1248-D				6.456			6.456 E5	0.00
21)	AR1248-E				5.929			5.929 E5	0.00
22)	AR1248-F				1.114			1.114 E6	0.00
23)	AR1248-G				9.328			9.328 E5	0.00
24)	AR1254-A				5.314			5.314 E5	0.00
25)	AR1254-B				1.074			1.074 E6	0.00
26)	AR1254-C				5.905			5.905 E5	0.00
27)	AR1254-D				1.037			1.037 E6	0.00
28)	AR1254-E				7.698			7.698 E5	0.00
29)	AR1254-F				7.138			7.138 E5	0.00
30)	AR1254-G				1.083			1.083 E6	0.00
31)	AR1016-A	3.281	3.118	2.913	2.888	2.676	2.635	2.918 E5	8.55
32)	AR1016-B	5.960	5.956	5.592	5.545	5.151	5.073	5.546 E5	6.85
33)	AR1016-C	1.339	1.319	1.279	1.306	1.238	1.229	1.285 E6	3.47
34)	AR1016-D	5.102	5.064	4.831	4.827	4.615	4.572	4.835 E5	4.54
35)	AR1016-E	5.374	5.259	5.008	5.051	4.811	4.836	5.057 E5	4.45
36)	AR1260-A	1.236	1.236	1.203	1.246	1.201	1.207	1.222 E6	1.65
37)	AR1260-B	7.183	7.121	6.882	7.059	6.772	6.362	6.897 E5	4.40
38)	AR1260-C	7.644	7.255	7.266	7.427	7.117	7.142	7.309 E5	2.71
39)	AR1260-D	1.557	1.641	1.613	1.687	1.611	1.573	1.614 E6	2.89
40)	AR1260-E	1.784	1.747	1.684	1.736	1.670	1.674	1.716 E6	2.72
41)	AR1262-A				8.244			8.244 E5	0.00
42)	AR1262-B				1.068			1.068 E6	0.00
43)	AR1262-C				9.799			9.799 E5	0.00
44)	AR1262-D				2.063			2.063 E6	0.00
45)	AR1262-E				2.346			2.346 E6	0.00
46)	AR1268-A				2.254			2.254 E6	0.00
47)	AR1268-B				2.228			2.228 E6	0.00

Initial Calibration Summary

Job Number: JD29923 **Sample:** GRK50-ICC50
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** RK1855.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

48)		AR1268-C				1.818			1.818	E6	0.00
49)		AR1268-D				7.866			7.866	E5	0.00
50)		AR1268-E				5.764			5.764	E6	0.00
51)	S	Decachlorobiphenyl	1.518	1.464	1.409	1.450	1.391	1.405	1.440	E7	3.31

Signal #2

1)	S	Tetrachloro-m-xylen	5.315	6.330	6.453	6.859	6.628	6.692	6.380	E7	8.67
2)		AR1221-A				4.789			4.789	E5	0.00
3)		AR1221-B				8.081			8.081	E5	0.00
4)		AR1221-C				2.023			2.023	E6	0.00
5)		AR1221-D				4.850			4.850	E5	0.00
6)		AR1221-E				3.898			3.898	E5	0.00
7)		AR1232-A				1.521			1.521	E6	0.00
8)		AR1232-B				1.227			1.227	E6	0.00
9)		AR1232-C				2.724			2.724	E6	0.00
10)		AR1232-D				1.074			1.074	E6	0.00
11)		AR1232-E				6.747			6.747	E5	0.00
12)		AR1242-A				2.301			2.301	E6	0.00
13)		AR1242-B				4.885			4.885	E6	0.00
14)		AR1242-C				1.943			1.943	E6	0.00
15)		AR1242-D				1.386			1.386	E6	0.00
16)		AR1242-E				1.854			1.854	E6	0.00
17)		AR1248-A				1.117			1.117	E6	0.00
18)		AR1248-B				3.107			3.107	E6	0.00
19)		AR1248-C				1.669			1.669	E6	0.00
20)		AR1248-D				2.130			2.130	E6	0.00
21)		AR1248-E				2.395			2.395	E6	0.00
22)		AR1248-F				3.104			3.104	E6	0.00
23)		AR1248-G				2.747			2.747	E6	0.00
24)		AR1254-A				2.826			2.826	E6	0.00
25)		AR1254-B				2.970			2.970	E6	0.00
26)		AR1254-C				2.299			2.299	E6	0.00
27)		AR1254-D				4.940			4.940	E6	0.00
28)		AR1254-E				5.376			5.376	E6	0.00
29)		AR1254-F				3.339			3.339	E6	0.00
30)		AR1254-G				3.771			3.771	E6	0.00
31)		AR1016-A	1.338	1.266	1.189	1.216	1.118	1.102	1.205	E6	7.42
32)		AR1016-B	2.862	2.880	2.733	2.758	2.538	2.482	2.709	E6	6.10
33)		AR1016-C	6.680	6.333	5.998	5.994	5.541	5.412	5.993	E6	7.93
34)		AR1016-D	2.656	2.462	2.323	2.347	2.182	2.150	2.353	E6	7.96
35)		AR1016-E	1.723	1.689	1.610	1.623	1.516	1.499	1.610	E6	5.58
36)		AR1260-A	4.492	4.823	4.227	4.486	4.311	4.289	4.438	E6	4.90
37)		AR1260-B	2.731	2.836	2.591	2.663	2.531	2.520	2.645	E6	4.65
38)		AR1260-C	2.662	2.716	2.693	2.751	2.624	2.620	2.677	E6	1.94
39)		AR1260-D	6.272	6.660	6.523	6.639	6.238	6.152	6.414	E6	3.43
40)		AR1260-E	6.256	6.361	6.227	6.418	6.138	6.189	6.265	E6	1.69
41)		AR1262-A				3.041			3.041	E6	0.00
42)		AR1262-B				4.215			4.215	E6	0.00
43)		AR1262-C				3.493			3.493	E6	0.00
44)		AR1262-D				7.865			7.865	E6	0.00
45)		AR1262-E				8.961			8.961	E6	0.00
46)		AR1268-A				8.743			8.743	E6	0.00
47)		AR1268-B				8.967			8.967	E6	0.00
48)		AR1268-C				7.200			7.200	E6	0.00
49)		AR1268-D				2.868			2.868	E6	0.00
50)		AR1268-E				2.045			2.045	E7	0.00
51)	S	Decachlorobiphenyl	5.096	5.074	4.916	5.039	4.843	4.834	4.967	E7	2.36

(#) = Out of Range

Initial Calibration Summary

Job Number: JD29923 **Sample:** GRK50-ICC50
Account: SESINJPB SESI Consulting Engineers **Lab FileID:** RK1855.D
Project: Ossining Investigation, 136-140 Croton Avnue, Ossining, NY

RKPCB50.M Mon Jul 26 15:52:09 2021