STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION

JANET T. MILLS
GOVERNOR

GERALD D. REID
COMMISSIONER

August 23, 2019

Town of Bowdoinham
Attn: Nicole Briand, Director of Planning & Development
13 School Street
Bowdoinham, Maine 04008

Re: Former Central Chemical Site, Bowdoinham

Dear Nicole,

The Department is in receipt of soil and porewater samples taken on June 5, 2019 at the former Central Chemical site located at 8 River Road in Bowdoinham. The investigation is due to the presence of a possible petroleum sheen observed along the site's shoreline.

On June 5, 2019, the Department staff investigated areas to the east and site of the old site building via test pits. Additionally, porewater samples were taken along the embankment of the Cathance River near the reported sheen locations. Visual and olfactory observations were conducted along with PID and oleophilic shake test to field screen soil conditions. Soil samples were collected to verify field observations. All samples were analyzed for volatile organic compounds (VOC), volatile petroleum hydrocarbons (VPH), extractable petroleum hydrocarbons (EPH), semivolatile organic compounds (SVOC), metals, pesticides, and herbicides and PCB's in the area of the concrete pad.

The results indicate slightly elevated levels above background of arsenic. The Maine undeveloped background concentration is 16 milligrams/kilogram (mg/kg) for arsenic and the TP-3 sample result was 17 mg/kg, which is slightly over background. I have enclosed a complete copy of all the sample analyses taken that day for your records.

The Department anticipates completing the final report in the late fall and will forward a copy to you. I can be contacted at Danielle.Obery@maine.gov should you have additional questions.

Sincerely,

Danielle Obery
Uncontrolled Sites Project Manager
Bureau of Remediation & Waste Management

Ec: file

AUGUSTA
17 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0017
(207) 287-7688 FAX: (207) 287-7826

BANGOR
106 HOGAN ROAD, SUITE 6
BANGOR, MAINE 04401
(207) 941-4570 FAX: (207) 941-4584

PORTLAND
312 CANCO ROAD
PORTLAND, MAINE 04103
(207) 822-6300 FAX: (207) 822-6303

PRESQUE ISLE
1235 CENTRAL DRIVE, SKYWAY PARK
PRESQUE ISLE, MAINE 04769
(207) 764-0477 FAX: (207) 760-3143

website: www.maine.gov/dep

ALPHA ANALYTICAL

ANALYTICAL REPORT

Lab Number:	L1924143
Client:	Maine DEP-Div. of Technical Services 17 State House Station Augusta, ME 04333
ATTN:	Matthew Burke
Phone:	(207) 446-9894
Project Name:	CENTRAL CHEMICAL CO.
Project Number:	Not Specified
Report Date:	06/19/19

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1924143-01	TP-2	SOIL	BOWDOINHAM	06/05/19 09:28	06/06/19
L1924143-02	TP-3	SOIL	BOWDOINHAM	06/05/19 10:00	06/06/19
L1924143-03	TP-4	SOIL	BOWDOINHAM	06/05/19 10:30	06/06/19
L1924143-04	TP-5	SOIL	BOWDOINHAM	06/05/19 11:05	06/06/19
L1924143-05	TP-6	SOIL	BOWDOINHAM	06/05/19 11:30	06/06/19
L1924143-06	TP-9	SOIL	BOWDOINHAM	06/05/19 13:48	06/06/19
L1924143-07	TP-8	SOIL	BOWDOINHAM	06/05/19 13:10	06/06/19
L1924143-08	TP-11	SOIL	BOWDOINHAM	06/05/19 14:15	06/06/19
L1924143-09	TRIP BLANK	SOIL	BOWDOINHAM	06/05/19 00:00	06/06/19

Project Name:	CENTRAL CHEMICAL CO.	**Lab Number:**	L1924143
Project Number:	Not Specified	**Report Date:**	06/19/19

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143
Project Number: Not Specified **Report Date:** 06/19/19

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L1924143-08: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (46%) was below the acceptance criteria; however, re-analysis achieved a similar result: 1,4-dichlorobenzene-d4 (42%). The results of both analyses are reported; however, since the IS response was below method criteria (but not <20% of applicable calibration standard area counts), all associated compounds are considered to have a potentially high bias.

The WG1249599-3/-4 LCS/LCSD recoveries, associated with L1924143-01 through -08, are below the individual acceptance criteria for 2-butanone (68%/67%) and tert-butyl alcohol (63%/66%), but within the overall method allowances. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for these compounds.

The WG1249762-3 LCS recoveries, associated with L1924143-08, are below the individual acceptance criteria for 2-butanone (68%) and tert-butyl alcohol (64%), but within the overall method allowances. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for these compounds.

Semivolatile Organics

The WG1248889-2/-3 LCS/LCSD RPD, associated with L1924143-01 through -08, is above the acceptance criteria for benzoic acid (76%).

Semivolatile Organics by SIM

L1924143-08: The sample has elevated detection limits due to the dilution required by the sample matrix.

VPH

Project Name:	CENTRAL CHEMICAL CO.	**Lab Number:**	L1924143
Project Number:	Not Specified	**Report Date:**	06/19/19

Case Narrative (continued)

L1924143-01 through -08: The sample was outside the recommended 1:1 methanol:soil ratio, due to the amount of soil provided in the sample vial.
L1924143-02: The surrogate recoveries are above the acceptance criteria for 2,5-dibromotoluene-pid (133%) and 2,5-dibromotoluene-fid (133%). Since the sample was non-detect for all target analytes, re-analysis was not required.

EPH
L1924143-08 has elevated detection limits for the target analytes only due to the dilution required by the elevated concentrations of these compounds in the sample.

Total Metals
L1924143-02, -03, -04, -06 and -07: The sample has an elevated detection limit for cadmium due to the dilution required by matrix interferences encountered during analysis.
L1924143-03 and -04: The sample has an elevated detection limit for selenium due to the dilution required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Cripps Melissa Cripps

Title: Technical Director/Representative Date: 06/19/19

ORGANICS

VOLATILES

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-01
Client ID: TP-2
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 09:28
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/17/19 13:44
Analyst: JC
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.0	1.8	1
1,1-Dichloroethane	ND		ug/kg	0.81	0.12	1
Chloroform	ND		ug/kg	1.2	0.11	1
Carbon tetrachloride	ND		ug/kg	0.81	0.19	1
1,2-Dichloropropane	ND		ug/kg	0.81	0.10	1
Dibromochloromethane	ND		ug/kg	0.81	0.11	1
1,1,2-Trichloroethane	ND		ug/kg	0.81	0.22	1
Tetrachloroethene	ND		ug/kg	0.40	0.16	1
Chlorobenzene	ND		ug/kg	0.40	0.10	1
Trichlorofluoromethane	ND		ug/kg	3.2	0.56	1
1,2-Dichloroethane	ND		ug/kg	0.81	0.21	1
1,1,1-Trichloroethane	ND		ug/kg	0.40	0.14	1
Bromodichloromethane	ND		ug/kg	0.40	0.09	1
1,1-Dichloropropene	ND		ug/kg	0.40	0.13	1
Bromoform	ND		ug/kg	3.2	0.20	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.40	0.13	1
Benzene	ND		ug/kg	0.40	0.13	1
Toluene	ND		ug/kg	0.81	0.44	1
Ethylbenzene	ND		ug/kg	0.81	0.11	1
Chloromethane	ND		ug/kg	3.2	0.75	1
Bromomethane	ND		ug/kg	1.6	0.47	1
Vinyl chloride	ND		ug/kg	0.81	0.27	1
Chloroethane	ND		ug/kg	1.6	0.36	1
1,1-Dichloroethene	ND		ug/kg	0.81	0.19	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.11	1
Trichloroethene	ND		ug/kg	0.40	0.11	1
1,2-Dichlorobenzene	ND		ug/kg	1.6	0.12	1
1,3-Dichlorobenzene	ND		ug/kg	1.6	0.12	1

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-01 Date Collected: 06/05/19 09:28

Client ID: TP-2 Date Received: 06/06/19

Sample Location: BOWDOINHAM Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/kg	1.6	0.14	1
Methyl tert butyl ether	ND		ug/kg	1.6	0.16	1
p/m-Xylene	ND		ug/kg	1.6	0.45	1
o-Xylene	ND		ug/kg	0.81	0.24	1
Xylenes, Total	ND		ug/kg	0.81	0.24	1
cis-1,2-Dichloroethene	ND		ug/kg	0.81	0.14	1
1,2-Dichloroethene, Total	ND		ug/kg	0.81	0.11	1
Dibromomethane	ND		ug/kg	1.6	0.19	1
1,2,3-Trichloropropane	ND		ug/kg	1.6	0.10	1
Styrene	ND		ug/kg	0.81	0.16	1
Dichlorodifluoromethane	ND		ug/kg	8.1	0.74	1
Acetone	15		ug/kg	8.1	3.9	1
Carbon disulfide	ND		ug/kg	8.1	3.7	1
2-Butanone	ND		ug/kg	8.1	1.8	1
4-Methyl-2-pentanone	ND		ug/kg	8.1	1.0	1
2-Hexanone	ND		ug/kg	8.1	0.95	1
Bromochloromethane	ND		ug/kg	1.6	0.16	1
Tetrahydrofuran	ND		ug/kg	3.2	1.3	1
2,2-Dichloropropane	ND		ug/kg	1.6	0.16	1
1,2-Dibromoethane	ND		ug/kg	0.81	0.22	1
1,3-Dichloropropane	ND		ug/kg	1.6	0.14	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.40	0.11	1
Bromobenzene	ND		ug/kg	1.6	0.12	1
n-Butylbenzene	ND		ug/kg	0.81	0.14	1
sec-Butylbenzene	ND		ug/kg	0.81	0.12	1
tert-Butylbenzene	ND		ug/kg	1.6	0.10	1
1,3,5-Trichlorobenzene	ND		ug/kg	1.6	0.14	1
o-Chlorotoluene	ND		ug/kg	1.6	0.15	1
p-Chlorotoluene	ND		ug/kg	1.6	0.09	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.4	0.81	1
Hexachlorobutadiene	ND		ug/kg	3.2	0.14	1
Isopropylbenzene	ND		ug/kg	0.81	0.09	1
p-Isopropyltoluene	0.12	J	ug/kg	0.81	0.09	1
Naphthalene	ND		ug/kg	3.2	0.52	1
n-Propylbenzene	ND		ug/kg	0.81	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.6	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.6	0.22	1

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-01 Date Collected: 06/05/19 09:28

Client ID: TP-2 Date Received: 06/06/19

Sample Location: BOWDOINHAM Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	1.6	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.6	0.27	1
Ethyl ether	ND		ug/kg	1.6	0.28	1
Diisopropyl Ether	ND		ug/kg	1.6	0.17	1
Tert-Butyl Alcohol	4.2	J	ug/kg	16	4.2	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.6	0.10	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.6	0.14	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	93		70-130

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-02 Date Collected: 06/05/19 10:00
Client ID: TP-3 Date Received: 06/06/19
Sample Location: BOWDOINHAM Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/17/19 14:11
Analyst: JC
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.97	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.97	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.97	0.12	1
Dibromochloromethane	ND		ug/kg	0.97	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.97	0.26	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.97	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
1,1-Dichloropropene	ND		ug/kg	0.49	0.15	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.97	0.53	1
Ethylbenzene	ND		ug/kg	0.97	0.14	1
Chloromethane	ND		ug/kg	3.9	0.91	1
Bromomethane	ND		ug/kg	1.9	0.57	1
Vinyl chloride	ND		ug/kg	0.97	0.33	1
Chloroethane	ND		ug/kg	1.9	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.97	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.13	1
Trichloroethene	ND		ug/kg	0.49	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-02
Client ID: TP-3
Sample Location: BOWDOINHAM
Date Collected: 06/05/19 10:00
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.17	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.20	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.97	0.28	1
Xylenes, Total	ND		ug/kg	0.97	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.97	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
Styrene	ND		ug/kg	0.97	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.7	0.89	1
Acetone	8.4	J	ug/kg	9.7	4.7	1
Carbon disulfide	ND		ug/kg	9.7	4.4	1
2-Butanone	ND		ug/kg	9.7	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	9.7	1.2	1
2-Hexanone	ND		ug/kg	9.7	1.2	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
Tetrahydrofuran	ND		ug/kg	3.9	1.5	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.97	0.27	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.49	0.13	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.97	0.16	1
sec-Butylbenzene	ND		ug/kg	0.97	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.12	1
1,3,5-Trichlorobenzene	ND		ug/kg	1.9	0.17	1
o-Chlorotoluene	ND		ug/kg	1.9	0.19	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.97	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.16	1
Isopropylbenzene	ND		ug/kg	0.97	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.97	0.11	1
Naphthalene	ND		ug/kg	3.9	0.63	1
n-Propylbenzene	ND		ug/kg	0.97	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-02 Date Collected: 06/05/19 10:00

Client ID: TP-3 Date Received: 06/06/19

Sample Location: BOWDOINHAM Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
Ethyl ether	ND		ug/kg	1.9	0.33	1
Diisopropyl Ether	ND		ug/kg	1.9	0.21	1
Tert-Butyl Alcohol	7.9	J	ug/kg	19	5.0	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.9	0.12	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.9	0.17	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	95		70-130

Project Name: CENTRAL CHEMICAL CO.
Lab Number: L1924143
Project Number: Not Specified
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-03
Client ID: TP-4
Sample Location: BOWDOINHAM
Date Collected: 06/05/19 10:30
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/17/19 14:38
Analyst: JC
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.12	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.16	1
Benzene	ND		ug/kg	0.50	0.16	1
Toluene	ND		ug/kg	1.0	0.54	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.93	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	1.0	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-03 Date Collected: 06/05/19 10:30

Client ID: TP-4 Date Received: 06/06/19

Sample Location: BOWDOINHAM Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
Xylenes, Total	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.91	1
Acetone	16		ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.5	1
2-Butanone	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
Tetrahydrofuran	ND		ug/kg	4.0	1.6	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
1,3,5-Trichlorobenzene	ND		ug/kg	2.0	0.17	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.0	0.65	1
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-03
Client ID: TP-4
Sample Location: BOWDOINHAM
Date Collected: 06/05/19 10:30
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
Diisopropyl Ether	ND		ug/kg	2.0	0.21	1
Tert-Butyl Alcohol	7.5	J	ug/kg	20	5.1	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	0.13	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	0.18	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	96		70-130

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-04 Date Collected: 06/05/19 11:05
Client ID: TP-5 Date Received: 06/06/19
Sample Location: BOWDOINHAM Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/17/19 15:05
Analyst: JC
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.4	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.89	0.13	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.89	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.89	0.11	1
Dibromochloromethane	ND		ug/kg	0.89	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.89	0.24	1
Tetrachloroethene	ND		ug/kg	0.44	0.17	1
Chlorobenzene	ND		ug/kg	0.44	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.6	0.62	1
1,2-Dichloroethane	ND		ug/kg	0.89	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.44	0.15	1
Bromodichloromethane	ND		ug/kg	0.44	0.10	1
1,1-Dichloropropene	ND		ug/kg	0.44	0.14	1
Bromoform	ND		ug/kg	3.6	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.44	0.15	1
Benzene	ND		ug/kg	0.44	0.15	1
Toluene	ND		ug/kg	0.89	0.48	1
Ethylbenzene	ND		ug/kg	0.89	0.12	1
Chloromethane	ND		ug/kg	3.6	0.83	1
Bromomethane	ND		ug/kg	1.8	0.52	1
Vinyl chloride	ND		ug/kg	0.89	0.30	1
Chloroethane	ND		ug/kg	1.8	0.40	1
1,1-Dichloroethene	ND		ug/kg	0.89	0.21	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1
Trichloroethene	ND		ug/kg	0.44	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.13	1

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-04
Client ID: TP-5
Sample Location: BOWDOINHAM
Date Collected: 06/05/19 11:05
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.50	1
o-Xylene	ND		ug/kg	0.89	0.26	1
Xylenes, Total	ND		ug/kg	0.89	0.26	1
cis-1,2-Dichloroethene	ND		ug/kg	0.89	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.89	0.12	1
Dibromomethane	ND		ug/kg	1.8	0.21	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.11	1
Styrene	ND		ug/kg	0.89	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.9	0.82	1
Acetone	ND		ug/kg	8.9	4.3	1
Carbon disulfide	ND		ug/kg	8.9	4.0	1
2-Butanone	ND		ug/kg	8.9	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	8.9	1.1	1
2-Hexanone	ND		ug/kg	8.9	1.0	1
Bromochloromethane	ND		ug/kg	1.8	0.18	1
Tetrahydrofuran	ND		ug/kg	3.6	1.4	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.89	0.25	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.44	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	ND		ug/kg	0.89	0.15	1
sec-Butylbenzene	ND		ug/kg	0.89	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.10	1
1,3,5-Trichlorobenzene	ND		ug/kg	1.8	0.15	1
o-Chlorotoluene	ND		ug/kg	1.8	0.17	1
p-Chlorotoluene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.7	0.89	1
Hexachlorobutadiene	ND		ug/kg	3.6	0.15	1
Isopropylbenzene	ND		ug/kg	0.89	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.89	0.10	1
Naphthalene	ND		ug/kg	3.6	0.58	1
n-Propylbenzene	ND		ug/kg	0.89	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.24	1

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-04 Date Collected: 06/05/19 11:05

Client ID: TP-5 Date Received: 06/06/19

Sample Location: BOWDOINHAM Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.30	1
Ethyl ether	ND		ug/kg	1.8	0.30	1
Diisopropyl Ether	ND		ug/kg	1.8	0.19	1
Tert-Butyl Alcohol	ND		ug/kg	18	4.6	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.8	0.11	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.8	0.16	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	96		70-130

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-05
Client ID: TP-6
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 11:30
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/17/19 15:33
Analyst: JC
Percent Solids: 61%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.3	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.13	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.28	1
Tetrachloroethene	ND		ug/kg	0.53	0.21	1
Chlorobenzene	ND		ug/kg	0.53	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.74	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	0.18	1
Bromodichloromethane	ND		ug/kg	0.53	0.12	1
1,1-Dichloropropene	ND		ug/kg	0.53	0.17	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.53	0.18	1
Benzene	ND		ug/kg	0.53	0.18	1
Toluene	ND		ug/kg	1.1	0.58	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	0.99	1
Bromomethane	ND		ug/kg	2.1	0.62	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	ND		ug/kg	0.53	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-05 Date Collected: 06/05/19 11:30

Client ID: TP-6 Date Received: 06/06/19

Sample Location: BOWDOINHAM Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.60	1
o-Xylene	ND		ug/kg	1.1	0.31	1
Xylenes, Total	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.14	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.97	1
Acetone	ND		ug/kg	11	5.1	1
Carbon disulfide	ND		ug/kg	11	4.8	1
2-Butanone	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
Tetrahydrofuran	ND		ug/kg	4.3	1.7	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.53	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
1,3,5-Trichlorobenzene	ND		ug/kg	2.1	0.18	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.3	0.69	1
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-05 Date Collected: 06/05/19 11:30

Client ID: TP-6 Date Received: 06/06/19

Sample Location: BOWDOINHAM Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.36	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
Diisopropyl Ether	ND		ug/kg	2.1	0.23	1
Tert-Butyl Alcohol	6.1	J	ug/kg	21	5.5	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.1	0.14	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.1	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	98		70-130

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-06
Client ID: TP-9
Sample Location: BOWDOINHAM
Date Collected: 06/05/19 13:48
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/17/19 16:00
Analyst: JC
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.71	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
1,1-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	ND		ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.96	1
Bromomethane	ND		ug/kg	2.0	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-06 Date Collected: 06/05/19 13:48

Client ID: TP-9 Date Received: 06/06/19

Sample Location: BOWDOINHAM Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.21	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.94	1
Acetone	ND		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
Tetrahydrofuran	ND		ug/kg	4.1	1.6	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.51	0.14	1
Bromobenzene	ND		ug/kg	2.0	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
1,3,5-Trichlorobenzene	ND		ug/kg	2.0	0.18	1
o-Chlorotoluene	ND		ug/kg	2.0	0.20	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.1	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.1	0.67	1
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1

Project Name: CENTRAL CHEMICAL CO.
Lab Number: L1924143
Project Number: Not Specified
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-06
Client ID: TP-9
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 13:48
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
Ethyl ether	ND		ug/kg	2.0	0.35	1
Diisopropyl Ether	ND		ug/kg	2.0	0.22	1
Tert-Butyl Alcohol	7.3	J	ug/kg	20	5.3	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	0.13	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	0.18	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	97		70-130

Project Name: CENTRAL CHEMICAL CO.
Lab Number: L1924143
Project Number: Not Specified
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-07
Client ID: TP-8
Sample Location: BOWDOINHAM
Date Collected: 06/05/19 13:10
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/17/19 16:27
Analyst: JC
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.98	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.98	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.98	0.12	1
Dibromochloromethane	ND		ug/kg	0.98	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.98	0.26	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.98	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
1,1-Dichloropropene	ND		ug/kg	0.49	0.16	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.98	0.53	1
Ethylbenzene	ND		ug/kg	0.98	0.14	1
Chloromethane	ND		ug/kg	3.9	0.91	1
Bromomethane	ND		ug/kg	2.0	0.57	1
Vinyl chloride	ND		ug/kg	0.98	0.33	1
Chloroethane	ND		ug/kg	2.0	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.98	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.13	1
Trichloroethene	ND		ug/kg	0.49	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.14	1

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-07
Client ID: TP-8
Sample Location: BOWDOINHAM
Date Collected: 06/05/19 13:10
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.55	1
o-Xylene	ND		ug/kg	0.98	0.28	1
Xylenes, Total	ND		ug/kg	0.98	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.98	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.98	0.13	1
Dibromomethane	ND		ug/kg	2.0	0.23	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.12	1
Styrene	ND		ug/kg	0.98	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.8	0.90	1
Acetone	ND		ug/kg	9.8	4.7	1
Carbon disulfide	ND		ug/kg	9.8	4.5	1
2-Butanone	ND		ug/kg	9.8	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	9.8	1.2	1
2-Hexanone	ND		ug/kg	9.8	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
Tetrahydrofuran	ND		ug/kg	3.9	1.6	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.98	0.27	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.49	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	0.98	0.16	1
sec-Butylbenzene	ND		ug/kg	0.98	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
1,3,5-Trichlorobenzene	ND		ug/kg	2.0	0.17	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.98	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.16	1
Isopropylbenzene	ND		ug/kg	0.98	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.98	0.11	1
Naphthalene	ND		ug/kg	3.9	0.64	1
n-Propylbenzene	ND		ug/kg	0.98	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-07 Date Collected: 06/05/19 13:10

Client ID: TP-8 Date Received: 06/06/19

Sample Location: BOWDOINHAM Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
Ethyl ether	ND		ug/kg	2.0	0.33	1
Diisopropyl Ether	ND		ug/kg	2.0	0.21	1
Tert-Butyl Alcohol	ND		ug/kg	20	5.0	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	0.12	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	0.17	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	98		70-130

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-08
Client ID: TP-11
Sample Location: BOWDOINHAM
Date Collected: 06/05/19 14:15
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/17/19 16:55
Analyst: JC
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.97	1
Bromomethane	ND		ug/kg	2.1	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-08 Date Collected: 06/05/19 14:15
Client ID: TP-11 Date Received: 06/06/19
Sample Location: BOWDOINHAM Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.95	1
Acetone	ND		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
Tetrahydrofuran	ND		ug/kg	4.2	1.6	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
1,3,5-Trichlorobenzene	ND		ug/kg	2.1	0.18	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.2	0.68	1
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-08
Client ID: TP-11
Sample Location: BOWDOINHAM
Date Collected: 06/05/19 14:15
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
Ethyl ether	ND		ug/kg	2.1	0.35	1
Diisopropyl Ether	ND		ug/kg	2.1	0.22	1
Tert-Butyl Alcohol	11	J	ug/kg	21	5.3	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.1	0.13	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.1	0.18	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	115		70-130
4-Bromofluorobenzene	122		70-130
Dibromofluoromethane	100		70-130

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-08 R
Client ID: TP-11
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 14:15
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/17/19 20:46
Analyst: NLK
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.96	1
Bromomethane	ND		ug/kg	2.1	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.1	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-08 R
Client ID: TP-11
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 14:15
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.94	1
Acetone	ND		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
Tetrahydrofuran	ND		ug/kg	4.1	1.6	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
1,3,5-Trichlorobenzene	ND		ug/kg	2.1	0.18	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.1	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.1	0.67	1
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1

Project Name: CENTRAL CHEMICAL CO.
Lab Number: L1924143
Project Number: Not Specified
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-08 R
Client ID: TP-11
Sample Location: BOWDOINHAM
Date Collected: 06/05/19 14:15
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.34	1
Ethyl ether	ND		ug/kg	2.1	0.35	1
Diisopropyl Ether	ND		ug/kg	2.1	0.22	1
Tert-Butyl Alcohol	ND		ug/kg	21	5.3	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.1	0.13	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.1	0.18	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	124		70-130
4-Bromofluorobenzene	129		70-130
Dibromofluoromethane	96		70-130

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/17/19 07:23
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-08 Batch: WG1249599-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/17/19 07:23
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-08 Batch: WG1249599-5					
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
Tetrahydrofuran	ND		ug/kg	4.0	1.6
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
1,3,5-Trichlorobenzene	ND		ug/kg	2.0	0.17
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/17/19 07:23
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-08 Batch: WG1249599-5					
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
Ethyl ether	ND		ug/kg	2.0	0.34
Diisopropyl Ether	ND		ug/kg	2.0	0.21
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	0.13
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	0.18

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	96		70-130

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/17/19 20:18
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 08 Batch: WG1249762-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/17/19 20:18
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 08 Batch: WG1249762-5					
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
Tetrahydrofuran	ND		ug/kg	4.0	1.6
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
1,3,5-Trichlorobenzene	ND		ug/kg	2.0	0.17
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/17/19 20:18
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 08 Batch: WG1249762-5					
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
Ethyl ether	ND		ug/kg	2.0	0.34
Diisopropyl Ether	ND		ug/kg	2.0	0.21
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	0.13
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	0.18

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-08 Batch: WG1249599-3 WG1249599-4								
Methylene chloride	90		88		70-130	2		30
1,1-Dichloroethane	102		101		70-130	1		30
Chloroform	103		100		70-130	3		30
Carbon tetrachloride	98		96		70-130	2		30
1,2-Dichloropropane	102		100		70-130	2		30
Dibromochloromethane	94		92		70-130	2		30
1,1,2-Trichloroethane	104		105		70-130	1		30
Tetrachloroethene	104		104		70-130	0		30
Chlorobenzene	107		107		70-130	0		30
Trichlorofluoromethane	139		129		70-139	7		30
1,2-Dichloroethane	98		97		70-130	1		30
1,1,1-Trichloroethane	101		100		70-130	1		30
Bromodichloromethane	100		99		70-130	1		30
1,1-Dichloropropene	102		102		70-130	0		30
Bromoform	90		88		70-130	2		30
1,1,2,2-Tetrachloroethane	104		105		70-130	1		30
Benzene	102		101		70-130	1		30
Toluene	107		107		70-130	0		30
Ethylbenzene	110		110		70-130	0		30
Chloromethane	95		98		52-130	3		30
Bromomethane	131		122		57-147	7		30
Vinyl chloride	117		116		67-130	1		30
Chloroethane	144		136		50-151	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-08 Batch: WG1249599-3 WG1249599-4								
1,1-Dichloroethene	116		105		65-135	10		30
trans-1,2-Dichloroethene	96		95		70-130	1		30
Trichloroethene	108		105		70-130	3		30
1,2-Dichlorobenzene	108		105		70-130	3		30
1,3-Dichlorobenzene	110		108		70-130	2		30
1,4-Dichlorobenzene	109		106		70-130	3		30
Methyl tert butyl ether	82		82		66-130	0		30
p/m-Xylene	113		112		70-130	1		30
o-Xylene	111		109		70-130	2		30
cis-1,2-Dichloroethene	97		97		70-130	0		30
Dibromomethane	97		94		70-130	3		30
1,2,3-Trichloropropane	102		100		68-130	2		30
Styrene	112		110		70-130	2		30
Dichlorodifluoromethane	87		84		30-146	4		30
Acetone	80		78		54-140	3		30
Carbon disulfide	112		90		59-130	22		30
2-Butanone	68	Q	67	Q	70-130	1		30
4-Methyl-2-pentanone	83		84		70-130	1		30
2-Hexanone	76		77		70-130	1		30
Bromochloromethane	94		92		70-130	2		30
Tetrahydrofuran	72		74		66-130	3		30
2,2-Dichloropropane	99		97		70-130	2		30
1,2-Dibromoethane	95		95		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-08 Batch: WG1249599-3 WG1249599-4								
1,3-Dichloropropane	102		103		69-130	1		30
1,1,1,2-Tetrachloroethane	104		103		70-130	1		30
Bromobenzene	104		103		70-130	1		30
n-Butylbenzene	124		121		70-130	2		30
sec-Butylbenzene	119		116		70-130	3		30
tert-Butylbenzene	113		111		70-130	2		30
1,3,5-Trichlorobenzene	111		108		70-139	3		30
o-Chlorotoluene	99		96		70-130	3		30
p-Chlorotoluene	116		115		70-130	1		30
1,2-Dibromo-3-chloropropane	82		80		68-130	2		30
Hexachlorobutadiene	104		101		67-130	3		30
Isopropylbenzene	114		112		70-130	2		30
p-Isopropyltoluene	116		113		70-130	3		30
Naphthalene	89		87		70-130	2		30
n-Propylbenzene	119		117		70-130	2		30
1,2,3-Trichlorobenzene	103		101		70-130	2		30
1,2,4-Trichlorobenzene	107		104		70-130	3		30
1,3,5-Trimethylbenzene	116		114		70-130	2		30
1,2,4-Trimethylbenzene	116		113		70-130	3		30
Ethyl ether	121		114		67-130	6		30
Diisopropyl Ether	90		91		66-130	1		30
Tert-Butyl Alcohol	63	Q	66	Q	70-130	5		30
Ethyl-Tert-Butyl-Ether	88		89		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-08 Batch: WG1249599-3 WG1249599-4								
Tertiary-Amyl Methyl Ether	85		85		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		102		70-130
Toluene-d8	103		104		70-130
4-Bromofluorobenzene	99		101		70-130
Dibromofluoromethane	98		96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 08 Batch: WG1249762-3 WG1249762-4								
Methylene chloride	92		93		70-130	1		30
1,1-Dichloroethane	104		106		70-130	2		30
Chloroform	104		104		70-130	0		30
Carbon tetrachloride	99		99		70-130	0		30
1,2-Dichloropropane	103		105		70-130	2		30
Dibromochloromethane	94		96		70-130	2		30
1,1,2-Trichloroethane	108		110		70-130	2		30
Tetrachloroethene	108		108		70-130	0		30
Chlorobenzene	111		113		70-130	2		30
Trichlorofluoromethane	132		122		70-139	8		30
1,2-Dichloroethane	98		98		70-130	0		30
1,1,1-Trichloroethane	103		103		70-130	0		30
Bromodichloromethane	100		99		70-130	1		30
1,1-Dichloropropene	108		109		70-130	1		30
Bromoform	88		92		70-130	4		30
1,1,2,2-Tetrachloroethane	108		111		70-130	3		30
Benzene	104		106		70-130	2		30
Toluene	112		114		70-130	2		30
Ethylbenzene	116		117		70-130	1		30
Chloromethane	97		103		52-130	6		30
Bromomethane	127		118		57-147	7		30
Vinyl chloride	119		120		67-130	1		30
Chloroethane	141		127		50-151	10		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 08 Batch: WG1249762-3 WG1249762-4								
1,1-Dichloroethene	107		98		65-135	9		30
trans-1,2-Dichloroethene	98		99		70-130	1		30
Trichloroethene	109		110		70-130	1		30
1,2-Dichlorobenzene	110		111		70-130	1		30
1,3-Dichlorobenzene	112		113		70-130	1		30
1,4-Dichlorobenzene	111		112		70-130	1		30
Methyl tert butyl ether	82		86		66-130	5		30
p/m-Xylene	117		118		70-130	1		30
o-Xylene	115		115		70-130	0		30
cis-1,2-Dichloroethene	98		100		70-130	2		30
Dibromomethane	95		95		70-130	0		30
1,2,3-Trichloropropane	104		107		68-130	3		30
Styrene	116		116		70-130	0		30
Dichlorodifluoromethane	84		85		30-146	1		30
Acetone	82		88		54-140	7		30
Carbon disulfide	92		94		59-130	2		30
2-Butanone	68	Q	80		70-130	16		30
4-Methyl-2-pentanone	88		92		70-130	4		30
2-Hexanone	78		82		70-130	5		30
Bromochloromethane	95		94		70-130	1		30
Tetrahydrofuran	71		77		66-130	8		30
2,2-Dichloropropane	101		100		70-130	1		30
1,2-Dibromoethane	98		100		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 08 Batch: WG1249762-3 WG1249762-4								
1,3-Dichloropropane	105		108		69-130	3		30
1,1,1,2-Tetrachloroethane	106		106		70-130	0		30
Bromobenzene	106		108		70-130	2		30
n-Butylbenzene	129		128		70-130	1		30
sec-Butylbenzene	123		124		70-130	1		30
tert-Butylbenzene	117		119		70-130	2		30
1,3,5-Trichlorobenzene	113		111		70-139	2		30
o-Chlorotoluene	103		123		70-130	18		30
p-Chlorotoluene	119		120		70-130	1		30
1,2-Dibromo-3-chloropropane	81		83		68-130	2		30
Hexachlorobutadiene	102		104		67-130	2		30
Isopropylbenzene	118		120		70-130	2		30
p-Isopropyltoluene	120		121		70-130	1		30
Naphthalene	90		92		70-130	2		30
n-Propylbenzene	124		127		70-130	2		30
1,2,3-Trichlorobenzene	104		105		70-130	1		30
1,2,4-Trichlorobenzene	107		108		70-130	1		30
1,3,5-Trimethylbenzene	119		121		70-130	2		30
1,2,4-Trimethylbenzene	120		121		70-130	1		30
Ethyl ether	117		110		67-130	6		30
Diisopropyl Ether	93		97		66-130	4		30
Tert-Butyl Alcohol	64	Q	72		70-130	12		30
Ethyl-Tert-Butyl-Ether	90		93		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 08 Batch: WG1249762-3 WG1249762-4								
Tertiary-Amyl Methyl Ether	86		88		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		99		70-130
Toluene-d8	105		106		70-130
4-Bromofluorobenzene	102		102		70-130
Dibromofluoromethane	95		94		70-130

SEMIVOLATILES

Project Name: CENTRAL CHEMICAL CO.
Lab Number: L1924143
Project Number: Not Specified
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-01
Client ID: TP-2
Sample Location: BOWDOINHAM
Date Collected: 06/05/19 09:28
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/17/19 12:54
Analyst: KR
Percent Solids: 86%
Extraction Method: EPA 3546
Extraction Date: 06/15/19 03:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzidine	ND		ug/kg	620	200	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Azobenzene	ND		ug/kg	190	18.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Isophorone	ND		ug/kg	170	24.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Biphenyl	ND		ug/kg	430	44.	1
Aniline	ND		ug/kg	230	89.	1
4-Chloroaniline	ND		ug/kg	190	34.	1

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-01 Date Collected: 06/05/19 09:28

Client ID: TP-2 Date Received: 06/06/19

Sample Location: BOWDOINHAM Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
n-Nitrosodimethylamine	ND		ug/kg	380	36.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	910	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	91.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1
Pyridine	ND		ug/kg	200	72.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	83		18-120

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-01
Client ID: TP-2
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 09:28
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D-SIM
Analytical Date: 06/18/19 14:36
Analyst: CB
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 06/15/19 03:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/kg	7.6	1.6	1
2-Chloronaphthalene	ND		ug/kg	7.6	0.98	1
Fluoranthene	7.8		ug/kg	7.6	0.53	1
Hexachlorobutadiene	ND		ug/kg	7.6	1.1	1
Naphthalene	2.3	J	ug/kg	7.6	1.4	1
Benzo(a)anthracene	6.2	J	ug/kg	7.6	0.72	1
Benzo(a)pyrene	4.4	J	ug/kg	7.6	0.91	1
Benzo(b)fluoranthene	5.4	J	ug/kg	7.6	0.72	1
Benzo(k)fluoranthene	3.1	J	ug/kg	7.6	0.68	1
Chrysene	5.2	J	ug/kg	7.6	0.57	1
Acenaphthylene	2.0	J	ug/kg	7.6	0.95	1
Anthracene	2.0	J	ug/kg	7.6	0.60	1
Benzo(ghi)perylene	3.3	J	ug/kg	7.6	0.64	1
Fluorene	1.1	J	ug/kg	7.6	0.91	1
Phenanthrene	6.3	J	ug/kg	7.6	0.64	1
Dibenzo(a,h)anthracene	1.2	J	ug/kg	7.6	0.76	1
Indeno(1,2,3-cd)Pyrene	3.2	J	ug/kg	7.6	0.91	1
Pyrene	7.5	J	ug/kg	7.6	0.53	1
1-Methylnaphthalene	1.8	J	ug/kg	7.6	1.2	1
2-Methylnaphthalene	ND		ug/kg	7.6	2.2	1
Pentachlorophenol	4.7	J	ug/kg	30	3.3	1
Hexachlorobenzene	ND		ug/kg	7.6	0.80	1
Hexachloroethane	ND		ug/kg	7.6	1.4	1

Project Name: CENTRAL CHEMICAL CO.
Lab Number: L1924143
Project Number: Not Specified
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-01
Client ID: TP-2
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 09:28
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		25-120
Phenol-d6	59		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	67		0-136
4-Terphenyl-d14	70		18-120

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-02
Client ID: TP-3
Sample Location: BOWDOINHAM
Date Collected: 06/05/19 10:00
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/17/19 13:21
Analyst: KR
Percent Solids: 83%
Extraction Method: EPA 3546
Extraction Date: 06/15/19 03:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzidine	ND		ug/kg	640	210	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	26.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Azobenzene	ND		ug/kg	200	19.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Isophorone	ND		ug/kg	180	25.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	49.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	66.	1
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Biphenyl	ND		ug/kg	440	45.	1
Aniline	ND		ug/kg	230	92.	1
4-Chloroaniline	ND		ug/kg	200	36.	1

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-02 Date Collected: 06/05/19 10:00

Client ID: TP-3 Date Received: 06/06/19

Sample Location: BOWDOINHAM Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	81.	1
Dibenzofuran	ND		ug/kg	200	18.	1
n-Nitrosodimethylamine	ND		ug/kg	390	38.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	31.	1
2,4-Dimethylphenol	ND		ug/kg	200	64.	1
2-Nitrophenol	ND		ug/kg	420	74.	1
4-Nitrophenol	ND		ug/kg	270	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	91.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	37.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	ND		ug/kg	200	19.	1
Pyridine	ND		ug/kg	210	74.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	74		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	79		18-120

Project Name: CENTRAL CHEMICAL CO.
Lab Number: L1924143
Project Number: Not Specified
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-02
Client ID: TP-3
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 10:00
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D-SIM
Analytical Date: 06/18/19 14:53
Analyst: CB
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 06/15/19 03:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/kg	7.8	1.6	1
2-Chloronaphthalene	ND		ug/kg	7.8	1.0	1
Fluoranthene	1.8	J	ug/kg	7.8	0.55	1
Hexachlorobutadiene	ND		ug/kg	7.8	1.1	1
Naphthalene	ND		ug/kg	7.8	1.4	1
Benzo(a)anthracene	1.6	J	ug/kg	7.8	0.74	1
Benzo(a)pyrene	ND		ug/kg	7.8	0.94	1
Benzo(b)fluoranthene	1.2	J	ug/kg	7.8	0.74	1
Benzo(k)fluoranthene	ND		ug/kg	7.8	0.70	1
Chrysene	1.0	J	ug/kg	7.8	0.59	1
Acenaphthylene	ND		ug/kg	7.8	0.98	1
Anthracene	ND		ug/kg	7.8	0.62	1
Benzo(ghi)perylene	ND		ug/kg	7.8	0.66	1
Fluorene	ND		ug/kg	7.8	0.94	1
Phenanthrene	1.6	J	ug/kg	7.8	0.66	1
Dibenzo(a,h)anthracene	ND		ug/kg	7.8	0.78	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	7.8	0.94	1
Pyrene	1.6	J	ug/kg	7.8	0.55	1
1-Methylnaphthalene	ND		ug/kg	7.8	1.2	1
2-Methylnaphthalene	ND		ug/kg	7.8	2.2	1
Pentachlorophenol	3.8	J	ug/kg	31	3.4	1
Hexachlorobenzene	ND		ug/kg	7.8	0.82	1
Hexachloroethane	ND		ug/kg	7.8	1.4	1

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-02 Date Collected: 06/05/19 10:00

Client ID: TP-3 Date Received: 06/06/19

Sample Location: BOWDOINHAM Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	71		0-136
4-Terphenyl-d14	77		18-120

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-03
Client ID: TP-4
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 10:30
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/17/19 13:48
Analyst: KR
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 06/15/19 03:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzidine	ND		ug/kg	680	220	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
1,2-Dichlorobenzene	ND		ug/kg	210	37.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	55.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Azobenzene	ND		ug/kg	210	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	190	1
Isophorone	ND		ug/kg	190	27.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	72.	1
Butyl benzyl phthalate	ND		ug/kg	210	52.	1
Di-n-butylphthalate	ND		ug/kg	210	39.	1
Di-n-octylphthalate	ND		ug/kg	210	70.	1
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Biphenyl	ND		ug/kg	470	48.	1
Aniline	ND		ug/kg	250	98.	1
4-Chloroaniline	ND		ug/kg	210	38.	1

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-03 Date Collected: 06/05/19 10:30

Client ID: TP-4 Date Received: 06/06/19

Sample Location: BOWDOINHAM Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	86.	1
Dibenzofuran	ND		ug/kg	210	20.	1
n-Nitrosodimethylamine	ND		ug/kg	420	40.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	24.	1
2,4-Dichlorophenol	ND		ug/kg	190	33.	1
2,4-Dimethylphenol	ND		ug/kg	210	68.	1
2-Nitrophenol	ND		ug/kg	450	78.	1
4-Nitrophenol	ND		ug/kg	290	85.	1
2,4-Dinitrophenol	ND		ug/kg	1000	97.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	100	1
Phenol	ND		ug/kg	210	31.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	670	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	ND		ug/kg	210	20.	1
Pyridine	ND		ug/kg	220	79.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	86		10-136
4-Terphenyl-d14	83		18-120

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-03
Client ID: TP-4
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 10:30
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D-SIM
Analytical Date: 06/18/19 15:10
Analyst: CB
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 06/15/19 03:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	14		ug/kg	8.3	1.7	1
2-Chloronaphthalene	ND		ug/kg	8.3	1.1	1
Fluoranthene	6.4	J	ug/kg	8.3	0.58	1
Hexachlorobutadiene	ND		ug/kg	8.3	1.2	1
Naphthalene	38		ug/kg	8.3	1.5	1
Benzo(a)anthracene	1.4	J	ug/kg	8.3	0.79	1
Benzo(a)pyrene	ND		ug/kg	8.3	1.0	1
Benzo(b)fluoranthene	ND		ug/kg	8.3	0.79	1
Benzo(k)fluoranthene	ND		ug/kg	8.3	0.75	1
Chrysene	0.75	J	ug/kg	8.3	0.62	1
Acenaphthylene	ND		ug/kg	8.3	1.0	1
Anthracene	3.3	J	ug/kg	8.3	0.66	1
Benzo(ghi)perylene	ND		ug/kg	8.3	0.70	1
Fluorene	14		ug/kg	8.3	1.0	1
Phenanthrene	31		ug/kg	8.3	0.70	1
Dibenzo(a,h)anthracene	ND		ug/kg	8.3	0.83	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	8.3	1.0	1
Pyrene	4.1	J	ug/kg	8.3	0.58	1
1-Methylnaphthalene	8.9		ug/kg	8.3	1.3	1
2-Methylnaphthalene	17		ug/kg	8.3	2.4	1
Pentachlorophenol	5.8	J	ug/kg	33	3.6	1
Hexachlorobenzene	ND		ug/kg	8.3	0.87	1
Hexachloroethane	ND		ug/kg	8.3	1.5	1

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-03 Date Collected: 06/05/19 10:30

Client ID: TP-4 Date Received: 06/06/19

Sample Location: BOWDOINHAM Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	67		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	72		0-136
4-Terphenyl-d14	79		18-120

Project Name: CENTRAL CHEMICAL CO.
Lab Number: L1924143
Project Number: Not Specified
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-04
Client ID: TP-5
Sample Location: BOWDOINHAM
Date Collected: 06/05/19 11:05
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/17/19 14:16
Analyst: KR
Percent Solids: 80%
Extraction Method: EPA 3546
Extraction Date: 06/15/19 03:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzidine	ND		ug/kg	680	220	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
1,2-Dichlorobenzene	ND		ug/kg	210	37.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	55.	1
2,4-Dinitrotoluene	ND		ug/kg	210	41.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Azobenzene	ND		ug/kg	210	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	190	1
Isophorone	ND		ug/kg	190	27.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	160	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	72.	1
Butyl benzyl phthalate	ND		ug/kg	210	52.	1
Di-n-butylphthalate	ND		ug/kg	210	39.	1
Di-n-octylphthalate	ND		ug/kg	210	70.	1
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Biphenyl	ND		ug/kg	470	48.	1
Aniline	ND		ug/kg	250	98.	1
4-Chloroaniline	ND		ug/kg	210	38.	1

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-04 Date Collected: 06/05/19 11:05

Client ID: TP-5 Date Received: 06/06/19

Sample Location: BOWDOINHAM Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	86.	1
Dibenzofuran	ND		ug/kg	210	20.	1
n-Nitrosodimethylamine	ND		ug/kg	410	40.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	24.	1
2,4-Dichlorophenol	ND		ug/kg	190	33.	1
2,4-Dimethylphenol	ND		ug/kg	210	68.	1
2-Nitrophenol	ND		ug/kg	450	78.	1
4-Nitrophenol	ND		ug/kg	290	85.	1
2,4-Dinitrophenol	ND		ug/kg	1000	97.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	100	1
Phenol	ND		ug/kg	210	31.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	670	210	1
Benzyl Alcohol	ND		ug/kg	210	63.	1
Carbazole	ND		ug/kg	210	20.	1
Pyridine	ND		ug/kg	220	79.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	74		18-120

Project Name: CENTRAL CHEMICAL CO.
Lab Number: L1924143
Project Number: Not Specified
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-04
Client ID: TP-5
Sample Location: BOWDOINHAM
Date Collected: 06/05/19 11:05
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D-SIM
Analytical Date: 06/18/19 15:44
Analyst: CB
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 06/15/19 03:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/kg	8.3	1.7	1
2-Chloronaphthalene	ND		ug/kg	8.3	1.1	1
Fluoranthene	1.5	J	ug/kg	8.3	0.58	1
Hexachlorobutadiene	ND		ug/kg	8.3	1.2	1
Naphthalene	ND		ug/kg	8.3	1.5	1
Benzo(a)anthracene	1.3	J	ug/kg	8.3	0.79	1
Benzo(a)pyrene	ND		ug/kg	8.3	1.0	1
Benzo(b)fluoranthene	1.0	J	ug/kg	8.3	0.79	1
Benzo(k)fluoranthene	ND		ug/kg	8.3	0.75	1
Chrysene	0.83	J	ug/kg	8.3	0.62	1
Acenaphthylene	ND		ug/kg	8.3	1.0	1
Anthracene	ND		ug/kg	8.3	0.66	1
Benzo(ghi)perylene	ND		ug/kg	8.3	0.70	1
Fluorene	ND		ug/kg	8.3	1.0	1
Phenanthrene	1.4	J	ug/kg	8.3	0.70	1
Dibenzo(a,h)anthracene	ND		ug/kg	8.3	0.83	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	8.3	1.0	1
Pyrene	1.4	J	ug/kg	8.3	0.58	1
1-Methylnaphthalene	ND		ug/kg	8.3	1.3	1
2-Methylnaphthalene	ND		ug/kg	8.3	2.4	1
Pentachlorophenol	ND		ug/kg	33	3.6	1
Hexachlorobenzene	ND		ug/kg	8.3	0.87	1
Hexachloroethane	ND		ug/kg	8.3	1.5	1

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-04 Date Collected: 06/05/19 11:05

Client ID: TP-5 Date Received: 06/06/19

Sample Location: BOWDOINHAM Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	62		0-136
4-Terphenyl-d14	72		18-120

Project Name: CENTRAL CHEMICAL CO.
Lab Number: L1924143
Project Number: Not Specified
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-05
Client ID: TP-6
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 11:30
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/17/19 16:31
Analyst: KR
Percent Solids: 61%

Extraction Method: EPA 3546
Extraction Date: 06/15/19 03:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzidine	ND		ug/kg	900	290	1
1,2,4-Trichlorobenzene	ND		ug/kg	270	31.	1
Bis(2-chloroethyl)ether	ND		ug/kg	240	37.	1
1,2-Dichlorobenzene	ND		ug/kg	270	49.	1
1,3-Dichlorobenzene	ND		ug/kg	270	47.	1
1,4-Dichlorobenzene	ND		ug/kg	270	47.	1
3,3'-Dichlorobenzidine	ND		ug/kg	270	72.	1
2,4-Dinitrotoluene	ND		ug/kg	270	54.	1
2,6-Dinitrotoluene	ND		ug/kg	270	47.	1
Azobenzene	ND		ug/kg	270	26.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	270	29.	1
4-Bromophenyl phenyl ether	ND		ug/kg	270	41.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	320	46.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	290	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	780	250	1
Isophorone	ND		ug/kg	240	35.	1
Nitrobenzene	ND		ug/kg	240	40.	1
NDPA/DPA	ND		ug/kg	220	31.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	270	42.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	270	94.	1
Butyl benzyl phthalate	ND		ug/kg	270	68.	1
Di-n-butylphthalate	ND		ug/kg	270	51.	1
Di-n-octylphthalate	ND		ug/kg	270	92.	1
Diethyl phthalate	ND		ug/kg	270	25.	1
Dimethyl phthalate	ND		ug/kg	270	57.	1
Biphenyl	ND		ug/kg	620	63.	1
Aniline	ND		ug/kg	320	130	1
4-Chloroaniline	ND		ug/kg	270	49.	1

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-05 Date Collected: 06/05/19 11:30

Client ID: TP-6 Date Received: 06/06/19

Sample Location: BOWDOINHAM Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Nitroaniline	ND		ug/kg	270	52.	1
3-Nitroaniline	ND		ug/kg	270	51.	1
4-Nitroaniline	ND		ug/kg	270	110	1
Dibenzofuran	ND		ug/kg	270	26.	1
n-Nitrosodimethylamine	ND		ug/kg	540	52.	1
2,4,6-Trichlorophenol	ND		ug/kg	160	51.	1
p-Chloro-m-cresol	ND		ug/kg	270	40.	1
2-Chlorophenol	ND		ug/kg	270	32.	1
2,4-Dichlorophenol	ND		ug/kg	240	44.	1
2,4-Dimethylphenol	ND		ug/kg	270	90	1
2-Nitrophenol	ND		ug/kg	590	100	1
4-Nitrophenol	ND		ug/kg	380	110	1
2,4-Dinitrophenol	ND		ug/kg	1300	130	1
4,6-Dinitro-o-cresol	ND		ug/kg	710	130	1
Phenol	ND		ug/kg	270	41.	1
2-Methylphenol	ND		ug/kg	270	42.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	390	42.	1
2,4,5-Trichlorophenol	ND		ug/kg	270	52.	1
Benzoic Acid	ND		ug/kg	880	270	1
Benzyl Alcohol	ND		ug/kg	270	83.	1
Carbazole	ND		ug/kg	270	26.	1
Pyridine	ND		ug/kg	290	100	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	89		10-136
4-Terphenyl-d14	80		18-120

Project Name: CENTRAL CHEMICAL CO.
Lab Number: L1924143
Project Number: Not Specified
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-05
Client ID: TP-6
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 11:30
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D-SIM
Analytical Date: 06/18/19 16:00
Analyst: CB
Percent Solids: 61%

Extraction Method: EPA 3546
Extraction Date: 06/15/19 03:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/kg	11	2.3	1
2-Chloronaphthalene	ND		ug/kg	11	1.4	1
Fluoranthene	17		ug/kg	11	0.76	1
Hexachlorobutadiene	ND		ug/kg	11	1.5	1
Naphthalene	7.0	J	ug/kg	11	2.0	1
Benzo(a)anthracene	13		ug/kg	11	1.0	1
Benzo(a)pyrene	9.2	J	ug/kg	11	1.3	1
Benzo(b)fluoranthene	20		ug/kg	11	1.0	1
Benzo(k)fluoranthene	6.7	J	ug/kg	11	0.98	1
Chrysene	19		ug/kg	11	0.81	1
Acenaphthylene	ND		ug/kg	11	1.4	1
Anthracene	2.9	J	ug/kg	11	0.87	1
Benzo(ghi)perylene	8.6	J	ug/kg	11	0.92	1
Fluorene	ND		ug/kg	11	1.3	1
Phenanthrene	19		ug/kg	11	0.92	1
Dibenzo(a,h)anthracene	2.0	J	ug/kg	11	1.1	1
Indeno(1,2,3-cd)Pyrene	7.6	J	ug/kg	11	1.3	1
Pyrene	16		ug/kg	11	0.76	1
1-Methylnaphthalene	9.1	J	ug/kg	11	1.7	1
2-Methylnaphthalene	8.6	J	ug/kg	11	3.1	1
Pentachlorophenol	7.4	J	ug/kg	43	4.8	1
Hexachlorobenzene	ND		ug/kg	11	1.1	1
Hexachloroethane	ND		ug/kg	11	2.0	1

Project Name: CENTRAL CHEMICAL CO.
Lab Number: L1924143
Project Number: Not Specified
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-05
Client ID: TP-6
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 11:30
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	73		0-136
4-Terphenyl-d14	74		18-120

Project Name: CENTRAL CHEMICAL CO.
Lab Number: L1924143
Project Number: Not Specified
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-06
Client ID: TP-9
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 13:48
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/17/19 14:43
Analyst: KR
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 06/15/19 03:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzidine	ND		ug/kg	670	220	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
1,2-Dichlorobenzene	ND		ug/kg	200	37.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Azobenzene	ND		ug/kg	200	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Isophorone	ND		ug/kg	180	26.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	71.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	39.	1
Di-n-octylphthalate	ND		ug/kg	200	69.	1
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Biphenyl	ND		ug/kg	460	47.	1
Aniline	ND		ug/kg	240	96.	1
4-Chloroaniline	ND		ug/kg	200	37.	1

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-06 Date Collected: 06/05/19 13:48

Client ID: TP-9 Date Received: 06/06/19

Sample Location: BOWDOINHAM Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	84.	1
Dibenzofuran	ND		ug/kg	200	19.	1
n-Nitrosodimethylamine	ND		ug/kg	410	39.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	67.	1
2-Nitrophenol	ND		ug/kg	440	77.	1
4-Nitrophenol	ND		ug/kg	280	83.	1
2,4-Dinitrophenol	ND		ug/kg	980	95.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	98.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	660	210	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	ND		ug/kg	200	20.	1
Pyridine	ND		ug/kg	220	78.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	67		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	73		18-120

Project Name: CENTRAL CHEMICAL CO.
Lab Number: L1924143
Project Number: Not Specified
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-06
Client ID: TP-9
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 13:48
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D-SIM
Analytical Date: 06/18/19 16:17
Analyst: CB
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 06/15/19 03:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/kg	8.2	1.7	1
2-Chloronaphthalene	ND		ug/kg	8.2	1.1	1
Fluoranthene	2.6	J	ug/kg	8.2	0.57	1
Hexachlorobutadiene	ND		ug/kg	8.2	1.1	1
Naphthalene	ND		ug/kg	8.2	1.5	1
Benzo(a)anthracene	1.8	J	ug/kg	8.2	0.78	1
Benzo(a)pyrene	1.1	J	ug/kg	8.2	0.98	1
Benzo(b)fluoranthene	1.6	J	ug/kg	8.2	0.78	1
Benzo(k)fluoranthene	ND		ug/kg	8.2	0.73	1
Chrysene	1.5	J	ug/kg	8.2	0.61	1
Acenaphthylene	ND		ug/kg	8.2	1.0	1
Anthracene	ND		ug/kg	8.2	0.65	1
Benzo(ghi)perylene	0.69	J	ug/kg	8.2	0.69	1
Fluorene	ND		ug/kg	8.2	0.98	1
Phenanthrene	1.9	J	ug/kg	8.2	0.69	1
Dibenzo(a,h)anthracene	ND		ug/kg	8.2	0.82	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	8.2	0.98	1
Pyrene	2.4	J	ug/kg	8.2	0.57	1
1-Methylnaphthalene	ND		ug/kg	8.2	1.3	1
2-Methylnaphthalene	ND		ug/kg	8.2	2.3	1
Pentachlorophenol	ND		ug/kg	33	3.6	1
Hexachlorobenzene	ND		ug/kg	8.2	0.86	1
Hexachloroethane	ND		ug/kg	8.2	1.5	1

Project Name: CENTRAL CHEMICAL CO.
Lab Number: L1924143
Project Number: Not Specified
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-06
Client ID: TP-9
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 13:48
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	63		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	63		0-136
4-Terphenyl-d14	72		18-120

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-07
Client ID: TP-8
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 13:10
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/17/19 15:37
Analyst: KR
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 06/15/19 03:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzidine	ND		ug/kg	710	230	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	37.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	57.	1
2,4-Dinitrotoluene	ND		ug/kg	210	43.	1
2,6-Dinitrotoluene	ND		ug/kg	210	37.	1
Azobenzene	ND		ug/kg	210	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorocyclopentadiene	ND		ug/kg	610	190	1
Isophorone	ND		ug/kg	190	28.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	74.	1
Butyl benzyl phthalate	ND		ug/kg	210	54.	1
Di-n-butylphthalate	ND		ug/kg	210	41.	1
Di-n-octylphthalate	ND		ug/kg	210	73.	1
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	45.	1
Biphenyl	ND		ug/kg	490	50.	1
Aniline	ND		ug/kg	260	100	1
4-Chloroaniline	ND		ug/kg	210	39.	1

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-07 Date Collected: 06/05/19 13:10

Client ID: TP-8 Date Received: 06/06/19

Sample Location: BOWDOINHAM Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	89.	1
Dibenzofuran	ND		ug/kg	210	20.	1
n-Nitrosodimethylamine	ND		ug/kg	430	41.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	210	32.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	71.	1
2-Nitrophenol	ND		ug/kg	460	81.	1
4-Nitrophenol	ND		ug/kg	300	88.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1
2,4,5-Trichlorophenol	ND		ug/kg	210	41.	1
Benzoic Acid	ND		ug/kg	700	220	1
Benzyl Alcohol	ND		ug/kg	210	66.	1
Carbazole	ND		ug/kg	210	21.	1
Pyridine	ND		ug/kg	230	82.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	89		10-136
4-Terphenyl-d14	84		18-120

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-07
Client ID: TP-8
Sample Location: BOWDOINHAM
Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D-SIM
Analytical Date: 06/18/19 16:34
Analyst: CB
Percent Solids: 78%

Date Collected: 06/05/19 13:10
Date Received: 06/06/19
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/15/19 03:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/kg	8.6	1.8	1
2-Chloronaphthalene	ND		ug/kg	8.6	1.1	1
Fluoranthene	13		ug/kg	8.6	0.60	1
Hexachlorobutadiene	ND		ug/kg	8.6	1.2	1
Naphthalene	2.5	J	ug/kg	8.6	1.5	1
Benzo(a)anthracene	7.0	J	ug/kg	8.6	0.82	1
Benzo(a)pyrene	5.6	J	ug/kg	8.6	1.0	1
Benzo(b)fluoranthene	8.1	J	ug/kg	8.6	0.82	1
Benzo(k)fluoranthene	3.0	J	ug/kg	8.6	0.77	1
Chrysene	7.5	J	ug/kg	8.6	0.64	1
Acenaphthylene	1.4	J	ug/kg	8.6	1.1	1
Anthracene	1.4	J	ug/kg	8.6	0.69	1
Benzo(ghi)perylene	4.1	J	ug/kg	8.6	0.73	1
Fluorene	ND		ug/kg	8.6	1.0	1
Phenanthrene	9.1		ug/kg	8.6	0.73	1
Dibenzo(a,h)anthracene	1.0	J	ug/kg	8.6	0.86	1
Indeno(1,2,3-cd)Pyrene	4.2	J	ug/kg	8.6	1.0	1
Pyrene	12		ug/kg	8.6	0.60	1
1-Methylnaphthalene	1.4	J	ug/kg	8.6	1.3	1
2-Methylnaphthalene	ND		ug/kg	8.6	2.4	1
Pentachlorophenol	ND		ug/kg	34	3.8	1
Hexachlorobenzene	ND		ug/kg	8.6	0.90	1
Hexachloroethane	ND		ug/kg	8.6	1.6	1

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-07 Date Collected: 06/05/19 13:10

Client ID: TP-8 Date Received: 06/06/19

Sample Location: BOWDOINHAM Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	90		30-120
2,4,6-Tribromophenol	82		0-136
4-Terphenyl-d14	93		18-120

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-08
Client ID: TP-11
Sample Location: BOWDOINHAM
Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/17/19 19:13
Analyst: KR
Percent Solids: 81%

Date Collected: 06/05/19 14:15
Date Received: 06/06/19
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/15/19 03:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzidine	ND		ug/kg	660	220	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Azobenzene	ND		ug/kg	200	19.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Isophorone	ND		ug/kg	180	26.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Biphenyl	ND		ug/kg	460	47.	1
Aniline	ND		ug/kg	240	95.	1
4-Chloroaniline	ND		ug/kg	200	37.	1

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-08
Client ID: TP-11
Sample Location: BOWDOINHAM
Date Collected: 06/05/19 14:15
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	83.	1
Dibenzofuran	44	J	ug/kg	200	19.	1
n-Nitrosodimethylamine	ND		ug/kg	400	39.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	440	76.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	970	94.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	97.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	650	200	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	74	J	ug/kg	200	20.	1
Pyridine	ND		ug/kg	220	76.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	91		30-120
2,4,6-Tribromophenol	89		10-136
4-Terphenyl-d14	82		18-120

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-08 D
Client ID: TP-11
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 14:15
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D-SIM
Analytical Date: 06/19/19 15:23
Analyst: DV
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 06/15/19 03:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	39	J	ug/kg	40	8.5	5
2-Chloronaphthalene	ND		ug/kg	40	5.2	5
Fluoranthene	1800		ug/kg	40	2.8	5
Hexachlorobutadiene	ND		ug/kg	40	5.6	5
Naphthalene	64		ug/kg	40	7.2	5
Benzo(a)anthracene	870		ug/kg	40	3.8	5
Benzo(a)pyrene	840		ug/kg	40	4.8	5
Benzo(b)fluoranthene	1100		ug/kg	40	3.8	5
Benzo(k)fluoranthene	360		ug/kg	40	3.6	5
Chrysene	800		ug/kg	40	3.0	5
Acenaphthylene	100		ug/kg	40	5.0	5
Anthracene	170		ug/kg	40	3.2	5
Benzo(ghi)perylene	660		ug/kg	40	3.4	5
Fluorene	33	J	ug/kg	40	4.8	5
Phenanthrene	840		ug/kg	40	3.4	5
Dibenzo(a,h)anthracene	140		ug/kg	40	4.0	5
Indeno(1,2,3-cd)Pyrene	680		ug/kg	40	4.8	5
Pyrene	1600		ug/kg	40	2.8	5
1-Methylnaphthalene	22	J	ug/kg	40	6.2	5
2-Methylnaphthalene	36	J	ug/kg	40	11.	5
Pentachlorophenol	ND		ug/kg	160	18.	5
Hexachlorobenzene	ND		ug/kg	40	4.2	5
Hexachloroethane	ND		ug/kg	40	7.4	5

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-08 D
Client ID: TP-11
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 14:15
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	89		25-120
Phenol-d6	89		10-120
Nitrobenzene-d5	116		23-120
2-Fluorobiphenyl	105		30-120
2,4,6-Tribromophenol	100		0-136
4-Terphenyl-d14	99		18-120

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/17/19 10:12
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 06/15/19 03:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1248889-1					
Acenaphthene	ND		ug/kg	130	17.
Benzidine	ND		ug/kg	540	180
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Azobenzene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/17/19 10:12
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 06/15/19 03:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1248889-1					
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
Aniline	ND		ug/kg	200	78.
4-Chloroaniline	ND		ug/kg	160	30.
1-Methylnaphthalene	ND		ug/kg	160	19.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
n-Nitrosodimethylamine	ND		ug/kg	330	32.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/17/19 10:12
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 06/15/19 03:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1248889-1					
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.
Pyridine	ND		ug/kg	180	63.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	98		25-120
Phenol-d6	93		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	97		30-120
2,4,6-Tribromophenol	105		10-136
4-Terphenyl-d14	104		18-120

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 06/18/19 09:49
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 06/15/19 03:39

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-08 Batch: WG1248890-1					
Acenaphthene	ND		ug/kg	6.6	1.4
2-Chloronaphthalene	ND		ug/kg	6.6	0.86
Fluoranthene	0.50	J	ug/kg	6.6	0.46
Hexachlorobutadiene	ND		ug/kg	6.6	0.93
Naphthalene	ND		ug/kg	6.6	1.2
Benzo(a)anthracene	ND		ug/kg	6.6	0.63
Benzo(a)pyrene	ND		ug/kg	6.6	0.79
Benzo(b)fluoranthene	ND		ug/kg	6.6	0.63
Benzo(k)fluoranthene	ND		ug/kg	6.6	0.60
Chrysene	ND		ug/kg	6.6	0.50
Acenaphthylene	ND		ug/kg	6.6	0.83
Anthracene	ND		ug/kg	6.6	0.53
Benzo(ghi)perylene	ND		ug/kg	6.6	0.56
Fluorene	ND		ug/kg	6.6	0.79
Phenanthrene	ND		ug/kg	6.6	0.56
Dibenzo(a,h)anthracene	ND		ug/kg	6.6	0.66
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	6.6	0.79
Pyrene	ND		ug/kg	6.6	0.46
1-Methylnaphthalene	ND		ug/kg	6.6	1.0
2-Methylnaphthalene	ND		ug/kg	6.6	1.9
Pentachlorophenol	ND		ug/kg	26	2.9
Hexachlorobenzene	ND		ug/kg	6.6	0.69
Hexachloroethane	ND		ug/kg	6.6	1.2

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 06/18/19 09:49
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 06/15/19 03:39

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-08 Batch: WG1248890-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	73		0-136
4-Terphenyl-d14	93		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1248889-2 WG1248889-3								
Acenaphthene	61		82		31-137	29		50
Benzidine	25		30		10-66	18		50
1,2,4-Trichlorobenzene	60		80		38-107	29		50
Hexachlorobenzene	61		82		40-140	29		50
Bis(2-chloroethyl)ether	60		81		40-140	30		50
2-Chloronaphthalene	64		87		40-140	30		50
1,2-Dichlorobenzene	58		74		40-140	24		50
1,3-Dichlorobenzene	59		74		40-140	23		50
1,4-Dichlorobenzene	57		72		28-104	23		50
3,3'-Dichlorobenzidine	50		69		40-140	32		50
2,4-Dinitrotoluene	63		84		40-132	29		50
2,6-Dinitrotoluene	66		91		40-140	32		50
Azobenzene	62		85		40-140	31		50
Fluoranthene	62		85		40-140	31		50
4-Chlorophenyl phenyl ether	61		83		40-140	31		50
4-Bromophenyl phenyl ether	61		86		40-140	34		50
Bis(2-chloroisopropyl)ether	60		80		40-140	29		50
Bis(2-chloroethoxy)methane	63		88		40-117	33		50
Hexachlorobutadiene	59		78		40-140	28		50
Hexachlorocyclopentadiene	50		71		40-140	35		50
Hexachloroethane	61		77		40-140	23		50
Isophorone	62		85		40-140	31		50
Naphthalene	60		79		40-140	27		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1248889-2 WG1248889-3								
Nitrobenzene	61		80		40-140	27		50
NDPA/DPA	62		86		36-157	32		50
n-Nitrosodi-n-propylamine	62		86		32-121	32		50
Bis(2-ethylhexyl)phthalate	72		99		40-140	32		50
Butyl benzyl phthalate	65		89		40-140	31		50
Di-n-butylphthalate	66		90		40-140	31		50
Di-n-octylphthalate	70		98		40-140	33		50
Diethyl phthalate	63		86		40-140	31		50
Dimethyl phthalate	62		83		40-140	29		50
Benzo(a)anthracene	62		84		40-140	30		50
Benzo(a)pyrene	62		85		40-140	31		50
Benzo(b)fluoranthene	59		83		40-140	34		50
Benzo(k)fluoranthene	64		85		40-140	28		50
Chrysene	62		85		40-140	31		50
Acenaphthylene	65		88		40-140	30		50
Anthracene	62		84		40-140	30		50
Benzo(ghi)perylene	59		85		40-140	36		50
Fluorene	63		85		40-140	30		50
Phenanthrene	60		83		40-140	32		50
Dibenzo(a,h)anthracene	59		85		40-140	36		50
Indeno(1,2,3-cd)pyrene	59		84		40-140	35		50
Pyrene	62		85		35-142	31		50
Biphenyl	61		82		54-104	29		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1248889-2 WG1248889-3								
Aniline	52		70		40-140	30		50
4-Chloroaniline	53		76		40-140	36		50
1-Methylnaphthalene	60		81		26-130	30		50
2-Nitroaniline	67		91		47-134	30		50
3-Nitroaniline	56		73		26-129	26		50
4-Nitroaniline	65		89		41-125	31		50
Dibenzofuran	61		84		40-140	32		50
2-Methylnaphthalene	61		83		40-140	31		50
n-Nitrosodimethylamine	59		73		22-100	21		50
2,4,6-Trichlorophenol	67		91		30-130	30		50
p-Chloro-m-cresol	67		92		26-103	31		50
2-Chlorophenol	63		85		25-102	30		50
2,4-Dichlorophenol	67		94		30-130	34		50
2,4-Dimethylphenol	66		94		30-130	35		50
2-Nitrophenol	62		86		30-130	32		50
4-Nitrophenol	74		102		11-114	32		50
2,4-Dinitrophenol	43		66		4-130	42		50
4,6-Dinitro-o-cresol	62		89		10-130	36		50
Pentachlorophenol	50		74		17-109	39		50
Phenol	63		88		26-90	33		50
2-Methylphenol	66		91		30-130.	32		50
3-Methylphenol/4-Methylphenol	65		90		30-130	32		50
2,4,5-Trichlorophenol	68		92		30-130	30		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1248889-2 WG1248889-3								
Benzoic Acid	13		29		10-110	76	Q	50
Benzyl Alcohol	65		88		40-140	30		50
Carbazole	61		85		54-128	33		50
Pyridine	41		49		10-93	18		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	64		83		25-120
Phenol-d6	62		84		10-120
Nitrobenzene-d5	62		80		23-120
2-Fluorobiphenyl	62		83		30-120
2,4,6-Tribromophenol	63		86		10-136
4-Terphenyl-d14	62		84		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-08 Batch: WG1248890-2 WG1248890-3								
Acenaphthene	74		82		40-140	10		50
2-Chloronaphthalene	73		83		40-140	13		50
Fluoranthene	78		89		40-140	13		50
Hexachlorobutadiene	67		76		34-107	13		50
Naphthalene	72		80		40-140	11		50
Benzo(a)anthracene	85		95		40-140	11		50
Benzo(a)pyrene	80		88		40-140	10		50
Benzo(b)fluoranthene	78		89		40-140	13		50
Benzo(k)fluoranthene	83		91		40-140	9		50
Chrysene	80		88		40-140	10		50
Acenaphthylene	76		87		40-140	13		50
Anthracene	86		93		40-140	8		50
Benzo(ghi)perylene	80		85		40-140	6		50
Fluorene	74		83		40-140	11		50
Phenanthrene	83		89		40-140	7		50
Dibenzo(a,h)anthracene	85		89		40-140	5		50
Indeno(1,2,3-cd)Pyrene	79		84		40-140	6		50
Pyrene	77		88		35-142	13		50
1-Methylnaphthalene	73		82		40-140	12		50
2-Methylnaphthalene	75		83		40-140	10		50
Pentachlorophenol	50		64		17-109	25		50
Hexachlorobenzene	79		86		40-140	8		50
Hexachloroethane	68		80		29-106	16		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-08 Batch: WG1248890-2 WG1248890-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	67		75		25-120
Phenol-d6	68		75		10-120
Nitrobenzene-d5	76		86		23-120
2-Fluorobiphenyl	75		83		30-120
2,4,6-Tribromophenol	66		77		0-136
4-Terphenyl-d14	74		84		18-120

PETROLEUM HYDROCARBONS

Project Name: CENTRAL CHEMICAL CO.
Lab Number: L1924143
Project Number: Not Specified
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-01
Client ID: TP-2
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 09:28
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 131,VPH-18-2.1
Analytical Date: 06/12/19 11:33
Analyst: BAD
Percent Solids: 86%

Trap: EST, Carbopack B/Carboxen 1000&1001

Analytical Column: Restek, RTX-502.2, 105m, 0.53ID, 3um

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	2.1:1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C9-C10 Aromatics	ND		mg/kg	13.4	6.69	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	13.4	6.69	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	13.4	6.69	1
Benzene	ND		mg/kg	0.267	0.267	1
Toluene	ND		mg/kg	0.267	0.267	1
Ethylbenzene	ND		mg/kg	0.267	0.267	1
p/m-Xylene	ND		mg/kg	0.267	0.267	1
o-Xylene	ND		mg/kg	0.267	0.267	1
Methyl tert butyl ether	ND		mg/kg	0.134	0.134	1
Naphthalene	ND		mg/kg	1.34	0.535	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	114		70-130
2,5-Dibromotoluene-FID	113		70-130

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID:	L1924143-01			Date Collected:	06/05/19 09:28
Client ID:	TP-2			Date Received:	06/06/19
Sample Location:	BOWDOINHAM			Field Prep:	Not Specified
Sample Depth:					
Matrix:	Soil			Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1			Extraction Date:	06/15/19 03:07
Analytical Date:	06/16/19 17:36	M.S. Analytical Date:	06/18/19 15:42	Cleanup Method1:	EPH-04-1
Analyst:	SR	M.S. Analyst:	DV	Cleanup Date1:	06/16/19
Percent Solids:	86%				

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
EPH w/MS Targets - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	7.58	7.58	1
C19-C36 Aliphatics	ND		mg/kg	7.58	7.58	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	7.58	7.58	1
Naphthalene	ND		mg/kg	0.030	0.008	1
2-Methylnaphthalene	ND		mg/kg	0.030	0.004	1
Acenaphthylene	ND		mg/kg	0.030	0.004	1
Acenaphthene	ND		mg/kg	0.030	0.003	1
Fluorene	ND		mg/kg	0.030	0.003	1
Phenanthrene	0.007	J	mg/kg	0.030	0.003	1
Anthracene	ND		mg/kg	0.030	0.003	1
Fluoranthene	0.012	J	mg/kg	0.030	0.004	1
Pyrene	0.011	J	mg/kg	0.030	0.004	1
Benzo(a)anthracene	0.006	J	mg/kg	0.030	0.003	1
Chrysene	ND		mg/kg	0.030	0.011	1
Benzo(b)fluoranthene	ND		mg/kg	0.030	0.010	1
Benzo(k)fluoranthene	ND		mg/kg	0.030	0.012	1
Benzo(a)pyrene	0.005	J	mg/kg	0.030	0.002	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.030	0.009	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.030	0.009	1
Benzo(g,h,i)perylene	ND		mg/kg	0.030	0.011	1

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-01
Client ID: TP-2
Sample Location: BOWDOINHAM
Date Collected: 06/05/19 09:28
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

EPH w/MS Targets - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	71		40-140
o-Terphenyl	81		40-140
2-Fluorobiphenyl	90		40-140
2-Bromonaphthalene	89		40-140
o-Terphenyl-ms	52		40-140

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID:	L1924143-02	Date Collected:	06/05/19 10:00
Client ID:	TP-3	Date Received:	06/06/19
Sample Location:	BOWDOINHAM	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Analytical Method:	131,VPH-18-2.1		
Analytical Date:	06/12/19 12:35		
Analyst:	BAD		
Percent Solids:	83%		

Trap:	EST, Carbopack B/Carboxen 1000&1001	Analytical Column:	Restek, RTX-502.2, 105m, 0.53ID, 3um

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	2.8:1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C9-C10 Aromatics	ND		mg/kg	17.6	8.82	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	17.6	8.82	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	17.6	8.82	1
Benzene	ND		mg/kg	0.353	0.353	1
Toluene	ND		mg/kg	0.353	0.353	1
Ethylbenzene	ND		mg/kg	0.353	0.353	1
p/m-Xylene	ND		mg/kg	0.353	0.353	1
o-Xylene	ND		mg/kg	0.353	0.353	1
Methyl tert butyl ether	ND		mg/kg	0.176	0.176	1
Naphthalene	ND		mg/kg	1.76	0.705	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	133	Q	70-130
2,5-Dibromotoluene-FID	133	Q	70-130

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID:	L1924143-02			Date Collected:	06/05/19 10:00
Client ID:	TP-3			Date Received:	06/06/19
Sample Location:	BOWDOINHAM			Field Prep:	Not Specified
Sample Depth:					
Matrix:	Soil			Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1			Extraction Date:	06/15/19 03:07
Analytical Date:	06/16/19 18:22	M.S. Analytical Date:	06/18/19 16:12	Cleanup Method1:	EPH-04-1
Analyst:	SR	M.S. Analyst:	DV	Cleanup Date1:	06/16/19
Percent Solids:	83%				

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
EPH w/MS Targets - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	7.80	7.80	1
C19-C36 Aliphatics	ND		mg/kg	7.80	7.80	1
C11-C22 Aromatics, Adjusted	8.26		mg/kg	7.80	7.80	1
Naphthalene	0.035		mg/kg	0.031	0.008	1
2-Methylnaphthalene	ND		mg/kg	0.031	0.004	1
Acenaphthylene	ND		mg/kg	0.031	0.004	1
Acenaphthene	ND		mg/kg	0.031	0.003	1
Fluorene	ND		mg/kg	0.031	0.003	1
Phenanthrene	ND		mg/kg	0.031	0.004	1
Anthracene	ND		mg/kg	0.031	0.003	1
Fluoranthene	ND		mg/kg	0.031	0.005	1
Pyrene	ND		mg/kg	0.031	0.004	1
Benzo(a)anthracene	0.005	J	mg/kg	0.031	0.003	1
Chrysene	ND		mg/kg	0.031	0.011	1
Benzo(b)fluoranthene	ND		mg/kg	0.031	0.010	1
Benzo(k)fluoranthene	ND		mg/kg	0.031	0.012	1
Benzo(a)pyrene	ND		mg/kg	0.031	0.002	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.031	0.010	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.031	0.010	1
Benzo(g,h,i)perylene	ND		mg/kg	0.031	0.011	1

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID:	L1924143-02	Date Collected:	06/05/19 10:00
Client ID:	TP-3	Date Received:	06/06/19
Sample Location:	BOWDOINHAM	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
EPH w/MS Targets - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	61		40-140
o-Terphenyl	71		40-140
2-Fluorobiphenyl	91		40-140
2-Bromonaphthalene	91		40-140
o-Terphenyl-ms	54		40-140

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID:	L1924143-03	Date Collected:	06/05/19 10:30
Client ID:	TP-4	Date Received:	06/06/19
Sample Location:	BOWDOINHAM	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Analytical Method:	131,VPH-18-2.1		
Analytical Date:	06/12/19 13:06		
Analyst:	BAD		
Percent Solids:	79%		
Trap:	EST, Carbopack B/Carboxen 1000&1001	Analytical Column:	Restek, RTX-502.2, 105m, 0.53ID, 3um

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	2.7:1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C9-C10 Aromatics	ND		mg/kg	18.3	9.14	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	18.3	9.14	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	18.3	9.14	1
Benzene	ND		mg/kg	0.366	0.366	1
Toluene	ND		mg/kg	0.366	0.366	1
Ethylbenzene	ND		mg/kg	0.366	0.366	1
p/m-Xylene	ND		mg/kg	0.366	0.366	1
o-Xylene	ND		mg/kg	0.366	0.366	1
Methyl tert butyl ether	ND		mg/kg	0.183	0.183	1
Naphthalene	ND		mg/kg	1.83	0.731	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	118		70-130
2,5-Dibromotoluene-FID	119		70-130

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID:	L1924143-03			Date Collected:	06/05/19 10:30
Client ID:	TP-4			Date Received:	06/06/19
Sample Location:	BOWDOINHAM			Field Prep:	Not Specified
Sample Depth:					
Matrix:	Soil			Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1			Extraction Date:	06/15/19 03:07
Analytical Date:	06/16/19 19:07	M.S. Analytical Date:	06/18/19 13:39	Cleanup Method1:	EPH-04-1
Analyst:	SR	M.S. Analyst:	CB	Cleanup Date1:	06/16/19
Percent Solids:	79%				

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
EPH w/MS Targets - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	7.90	7.90	1
C19-C36 Aliphatics	ND		mg/kg	7.90	7.90	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	7.90	7.90	1
Naphthalene	ND		mg/kg	0.032	0.008	1
2-Methylnaphthalene	ND		mg/kg	0.032	0.004	1
Acenaphthylene	ND		mg/kg	0.032	0.004	1
Acenaphthene	ND		mg/kg	0.032	0.003	1
Fluorene	ND		mg/kg	0.032	0.003	1
Phenanthrene	ND		mg/kg	0.032	0.004	1
Anthracene	ND		mg/kg	0.032	0.003	1
Fluoranthene	ND		mg/kg	0.032	0.005	1
Pyrene	ND		mg/kg	0.032	0.005	1
Benzo(a)anthracene	ND		mg/kg	0.032	0.003	1
Chrysene	ND		mg/kg	0.032	0.011	1
Benzo(b)fluoranthene	ND		mg/kg	0.032	0.010	1
Benzo(k)fluoranthene	ND		mg/kg	0.032	0.012	1
Benzo(a)pyrene	ND		mg/kg	0.032	0.002	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.032	0.010	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.032	0.010	1
Benzo(g,h,i)perylene	ND		mg/kg	0.032	0.011	1

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-03 Date Collected: 06/05/19 10:30

Client ID: TP-4 Date Received: 06/06/19

Sample Location: BOWDOINHAM Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

EPH w/MS Targets - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	67		40-140
o-Terphenyl	74		40-140
2-Fluorobiphenyl	90		40-140
2-Bromonaphthalene	90		40-140
o-Terphenyl-ms	56		40-140

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-04
Client ID: TP-5
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 11:05
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 131,VPH-18-2.1
Analytical Date: 06/12/19 13:37
Analyst: BAD
Percent Solids: 80%

Trap: EST, Carbopack B/Carboxen 1000&1001

Analytical Column: Restek, RTX-502.2, 105m, 0.53ID, 3um

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	2.3:1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C9-C10 Aromatics	ND		mg/kg	15.7	7.84	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	15.7	7.84	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	15.7	7.84	1
Benzene	ND		mg/kg	0.314	0.314	1
Toluene	ND		mg/kg	0.314	0.314	1
Ethylbenzene	ND		mg/kg	0.314	0.314	1
p/m-Xylene	ND		mg/kg	0.314	0.314	1
o-Xylene	ND		mg/kg	0.314	0.314	1
Methyl tert butyl ether	ND		mg/kg	0.157	0.157	1
Naphthalene	ND		mg/kg	1.57	0.627	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	110		70-130
2,5-Dibromotoluene-FID	109		70-130

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID:	L1924143-04			Date Collected:	06/05/19 11:05
Client ID:	TP-5			Date Received:	06/06/19
Sample Location:	BOWDOINHAM			Field Prep:	Not Specified
Sample Depth:					
Matrix:	Soil			Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1			Extraction Date:	06/15/19 03:07
Analytical Date:	06/16/19 19:52	M.S. Analytical Date:	06/18/19 16:42	Cleanup Method1:	EPH-04-1
Analyst:	SR	M.S. Analyst:	DV	Cleanup Date1:	06/16/19
Percent Solids:	80%				

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
EPH w/MS Targets - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	7.97	7.97	1
C19-C36 Aliphatics	ND		mg/kg	7.97	7.97	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	7.97	7.97	1
Naphthalene	ND		mg/kg	0.032	0.008	1
2-Methylnaphthalene	ND		mg/kg	0.032	0.004	1
Acenaphthylene	ND		mg/kg	0.032	0.004	1
Acenaphthene	ND		mg/kg	0.032	0.003	1
Fluorene	ND		mg/kg	0.032	0.003	1
Phenanthrene	ND		mg/kg	0.032	0.004	1
Anthracene	ND		mg/kg	0.032	0.003	1
Fluoranthene	ND		mg/kg	0.032	0.005	1
Pyrene	ND		mg/kg	0.032	0.005	1
Benzo(a)anthracene	ND		mg/kg	0.032	0.003	1
Chrysene	ND		mg/kg	0.032	0.011	1
Benzo(b)fluoranthene	ND		mg/kg	0.032	0.010	1
Benzo(k)fluoranthene	ND		mg/kg	0.032	0.012	1
Benzo(a)pyrene	ND		mg/kg	0.032	0.002	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.032	0.010	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.032	0.010	1
Benzo(g,h,i)perylene	ND		mg/kg	0.032	0.012	1

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-04
Client ID: TP-5
Sample Location: BOWDOINHAM
Date Collected: 06/05/19 11:05
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

EPH w/MS Targets - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	71		40-140
o-Terphenyl	76		40-140
2-Fluorobiphenyl	85		40-140
2-Bromonaphthalene	85		40-140
o-Terphenyl-ms	65		40-140

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID:	L1924143-05	Date Collected:	06/05/19 11:30
Client ID:	TP-6	Date Received:	06/06/19
Sample Location:	BOWDOINHAM	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Analytical Method:	131,VPH-18-2.1		
Analytical Date:	06/12/19 14:08		
Analyst:	BAD		
Percent Solids:	61%		
Trap:	EST, Carbopack B/Carboxen 1000&1001	Analytical Column:	Restek, RTX-502.2, 105m, 0.53ID, 3um

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	2.6:1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C9-C10 Aromatics	ND		mg/kg	24.4	12.2	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	24.4	12.2	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	24.4	12.2	1
Benzene	ND		mg/kg	0.489	0.489	1
Toluene	ND		mg/kg	0.489	0.489	1
Ethylbenzene	ND		mg/kg	0.489	0.489	1
p/m-Xylene	ND		mg/kg	0.489	0.489	1
o-Xylene	ND		mg/kg	0.489	0.489	1
Methyl tert butyl ether	ND		mg/kg	0.244	0.244	1
Naphthalene	ND		mg/kg	2.44	0.978	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	120		70-130
2,5-Dibromotoluene-FID	120		70-130

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID:	L1924143-05			Date Collected:	06/05/19 11:30
Client ID:	TP-6			Date Received:	06/06/19
Sample Location:	BOWDOINHAM			Field Prep:	Not Specified
Sample Depth:					
Matrix:	Soil			Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1			Extraction Date:	06/15/19 03:07
Analytical Date:	06/16/19 20:38	M.S. Analytical Date:	06/18/19 17:11	Cleanup Method1:	EPH-04-1
Analyst:	SR	M.S. Analyst:	DV	Cleanup Date1:	06/16/19
Percent Solids:	61%				

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
EPH w/MS Targets - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	10.5	10.5	1
C19-C36 Aliphatics	13.5		mg/kg	10.5	10.5	1
C11-C22 Aromatics, Adjusted	14.6		mg/kg	10.5	10.5	1
Naphthalene	ND		mg/kg	0.042	0.010	1
2-Methylnaphthalene	ND		mg/kg	0.042	0.005	1
Acenaphthylene	ND		mg/kg	0.042	0.005	1
Acenaphthene	ND		mg/kg	0.042	0.003	1
Fluorene	ND		mg/kg	0.042	0.004	1
Phenanthrene	0.018	J	mg/kg	0.042	0.005	1
Anthracene	ND		mg/kg	0.042	0.004	1
Fluoranthene	0.018	J	mg/kg	0.042	0.006	1
Pyrene	0.016	J	mg/kg	0.042	0.006	1
Benzo(a)anthracene	0.012	J	mg/kg	0.042	0.004	1
Chrysene	0.016	J	mg/kg	0.042	0.015	1
Benzo(b)fluoranthene	0.022	J	mg/kg	0.042	0.013	1
Benzo(k)fluoranthene	ND		mg/kg	0.042	0.016	1
Benzo(a)pyrene	0.009	J	mg/kg	0.042	0.003	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.042	0.013	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.042	0.013	1
Benzo(g,h,i)perylene	ND		mg/kg	0.042	0.015	1

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-05 Date Collected: 06/05/19 11:30

Client ID: TP-6 Date Received: 06/06/19

Sample Location: BOWDOINHAM Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

EPH w/MS Targets - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	55		40-140
o-Terphenyl	66		40-140
2-Fluorobiphenyl	91		40-140
2-Bromonaphthalene	91		40-140
o-Terphenyl-ms	50		40-140

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID:	L1924143-06	Date Collected:	06/05/19 13:48
Client ID:	TP-9	Date Received:	06/06/19
Sample Location:	BOWDOINHAM	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Analytical Method:	131,VPH-18-2.1		
Analytical Date:	06/12/19 14:39		
Analyst:	BAD		
Percent Solids:	79%		

Trap:	EST, Carbopack B/Carboxen 1000&1001	Analytical Column:	Restek, RTX-502.2, 105m, 0.53ID, 3um

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	2.2:1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C9-C10 Aromatics	ND		mg/kg	15.3	7.67	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	15.3	7.67	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	15.3	7.67	1
Benzene	ND		mg/kg	0.307	0.307	1
Toluene	ND		mg/kg	0.307	0.307	1
Ethylbenzene	ND		mg/kg	0.307	0.307	1
p/m-Xylene	ND		mg/kg	0.307	0.307	1
o-Xylene	ND		mg/kg	0.307	0.307	1
Methyl tert butyl ether	ND		mg/kg	0.153	0.153	1
Naphthalene	ND		mg/kg	1.53	0.614	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	108		70-130
2,5-Dibromotoluene-FID	108		70-130

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID:	L1924143-06			Date Collected:	06/05/19 13:48
Client ID:	TP-9			Date Received:	06/06/19
Sample Location:	BOWDOINHAM			Field Prep:	Not Specified
Sample Depth:					
Matrix:	Soil			Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1			Extraction Date:	06/15/19 03:07
Analytical Date:	06/16/19 21:24	M.S. Analytical Date:	06/18/19 17:41	Cleanup Method1:	EPH-04-1
Analyst:	SR	M.S. Analyst:	DV	Cleanup Date1:	06/16/19
Percent Solids:	79%				

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
EPH w/MS Targets - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	8.16	8.16	1
C19-C36 Aliphatics	ND		mg/kg	8.16	8.16	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	8.16	8.16	1
Naphthalene	0.024	J	mg/kg	0.033	0.008	1
2-Methylnaphthalene	ND		mg/kg	0.033	0.004	1
Acenaphthylene	ND		mg/kg	0.033	0.004	1
Acenaphthene	ND		mg/kg	0.033	0.003	1
Fluorene	ND		mg/kg	0.033	0.003	1
Phenanthrene	ND		mg/kg	0.033	0.004	1
Anthracene	ND		mg/kg	0.033	0.003	1
Fluoranthene	ND		mg/kg	0.033	0.005	1
Pyrene	ND		mg/kg	0.033	0.005	1
Benzo(a)anthracene	ND		mg/kg	0.033	0.003	1
Chrysene	ND		mg/kg	0.033	0.012	1
Benzo(b)fluoranthene	ND		mg/kg	0.033	0.010	1
Benzo(k)fluoranthene	ND		mg/kg	0.033	0.013	1
Benzo(a)pyrene	ND		mg/kg	0.033	0.002	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.033	0.010	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.033	0.010	1
Benzo(g,h,i)perylene	ND		mg/kg	0.033	0.012	1

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-06
Client ID: TP-9
Sample Location: BOWDOINHAM
Date Collected: 06/05/19 13:48
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
EPH w/MS Targets - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	71		40-140
o-Terphenyl	100		40-140
2-Fluorobiphenyl	111		40-140
2-Bromonaphthalene	111		40-140
o-Terphenyl-ms	43		40-140

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-07
Client ID: TP-8
Sample Location: BOWDOINHAM
Date Collected: 06/05/19 13:10
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 131,VPH-18-2.1
Analytical Date: 06/12/19 15:10
Analyst: BAD
Percent Solids: 78%

Trap: EST, Carbopack B/Carboxen 1000&1001
Analytical Column: Restek, RTX-502.2, 105m, 0.53ID, 3um

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	2.1:1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C9-C10 Aromatics	ND		mg/kg	14.8	7.42	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	14.8	7.42	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	14.8	7.42	1
Benzene	ND		mg/kg	0.297	0.297	1
Toluene	ND		mg/kg	0.297	0.297	1
Ethylbenzene	ND		mg/kg	0.297	0.297	1
p/m-Xylene	ND		mg/kg	0.297	0.297	1
o-Xylene	ND		mg/kg	0.297	0.297	1
Methyl tert butyl ether	ND		mg/kg	0.148	0.148	1
Naphthalene	ND		mg/kg	1.48	0.593	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	111		70-130
2,5-Dibromotoluene-FID	111		70-130

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID:	L1924143-07			Date Collected:	06/05/19 13:10
Client ID:	TP-8			Date Received:	06/06/19
Sample Location:	BOWDOINHAM			Field Prep:	Not Specified
Sample Depth:					
Matrix:	Soil			Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1			Extraction Date:	06/15/19 03:07
Analytical Date:	06/16/19 22:09	M.S. Analytical Date:	06/18/19 18:11	Cleanup Method1:	EPH-04-1
Analyst:	SR	M.S. Analyst:	DV	Cleanup Date1:	06/16/19
Percent Solids:	78%				

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
EPH w/MS Targets - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	8.28	8.28	1
C19-C36 Aliphatics	ND		mg/kg	8.28	8.28	1
C11-C22 Aromatics, Adjusted	10.6		mg/kg	8.28	8.28	1
Naphthalene	ND		mg/kg	0.033	0.008	1
2-Methylnaphthalene	ND		mg/kg	0.033	0.004	1
Acenaphthylene	ND		mg/kg	0.033	0.004	1
Acenaphthene	ND		mg/kg	0.033	0.003	1
Fluorene	ND		mg/kg	0.033	0.003	1
Phenanthrene	0.007	J	mg/kg	0.033	0.004	1
Anthracene	ND		mg/kg	0.033	0.003	1
Fluoranthene	0.011	J	mg/kg	0.033	0.005	1
Pyrene	0.010	J	mg/kg	0.033	0.005	1
Benzo(a)anthracene	0.007	J	mg/kg	0.033	0.003	1
Chrysene	ND		mg/kg	0.033	0.012	1
Benzo(b)fluoranthene	ND		mg/kg	0.033	0.011	1
Benzo(k)fluoranthene	ND		mg/kg	0.033	0.013	1
Benzo(a)pyrene	0.006	J	mg/kg	0.033	0.003	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.033	0.010	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.033	0.010	1
Benzo(g,h,i)perylene	ND		mg/kg	0.033	0.012	1

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID:	L1924143-07	Date Collected:	06/05/19 13:10
Client ID:	TP-8	Date Received:	06/06/19
Sample Location:	BOWDOINHAM	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
EPH w/MS Targets - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	71		40-140
o-Terphenyl	74		40-140
2-Fluorobiphenyl	82		40-140
2-Bromonaphthalene	82		40-140
o-Terphenyl-ms	57		40-140

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

SAMPLE RESULTS

Lab ID:	L1924143-08	Date Collected:	06/05/19 14:15
Client ID:	TP-11	Date Received:	06/06/19
Sample Location:	BOWDOINHAM	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Analytical Method:	131,VPH-18-2.1		
Analytical Date:	06/12/19 15:41		
Analyst:	BAD		
Percent Solids:	81%		
Trap:	EST, Carbopack B/Carboxen 1000&1001	Analytical Column:	Restek, RTX-502.2, 105m, 0.53ID, 3um

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	2.7:1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C9-C10 Aromatics	ND		mg/kg	18.0	8.99	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	18.0	8.99	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	18.0	8.99	1
Benzene	ND		mg/kg	0.360	0.360	1
Toluene	ND		mg/kg	0.360	0.360	1
Ethylbenzene	ND		mg/kg	0.360	0.360	1
p/m-Xylene	ND		mg/kg	0.360	0.360	1
o-Xylene	ND		mg/kg	0.360	0.360	1
Methyl tert butyl ether	ND		mg/kg	0.180	0.180	1
Naphthalene	ND		mg/kg	1.80	0.719	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	103		70-130
2,5-Dibromotoluene-FID	104		70-130

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID:	L1924143-08			Date Collected:	06/05/19 14:15
Client ID:	TP-11			Date Received:	06/06/19
Sample Location:	BOWDOINHAM			Field Prep:	Not Specified
Sample Depth:					
Matrix:	Soil			Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1			Extraction Date:	06/15/19 03:07
Analytical Date:	06/17/19 01:58	M.S. Analytical Date:	06/19/19 10:51	Cleanup Method1:	EPH-04-1
Analyst:	SR	M.S. Analyst:	CB	Cleanup Date1:	06/16/19
Percent Solids:	81%				

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
EPH w/MS Targets - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	8.14	8.14	1
C19-C36 Aliphatics	90.2		mg/kg	8.14	8.14	1
C11-C22 Aromatics, Adjusted	66.0		mg/kg	8.14	8.14	1
Naphthalene	0.111	J	mg/kg	0.163	0.040	5
2-Methylnaphthalene	0.034	J	mg/kg	0.163	0.021	5
Acenaphthylene	0.092	J	mg/kg	0.163	0.020	5
Acenaphthene	0.090	J	mg/kg	0.163	0.013	5
Fluorene	0.077	J	mg/kg	0.163	0.015	5
Phenanthrene	1.95		mg/kg	0.163	0.019	5
Anthracene	0.630		mg/kg	0.163	0.014	5
Fluoranthene	5.12		mg/kg	0.163	0.024	5
Pyrene	4.62		mg/kg	0.163	0.023	5
Benzo(a)anthracene	3.04		mg/kg	0.163	0.016	5
Chrysene	3.14		mg/kg	0.163	0.058	5
Benzo(b)fluoranthene	6.94		mg/kg	0.163	0.052	5
Benzo(k)fluoranthene	2.47		mg/kg	0.163	0.062	5
Benzo(a)pyrene	5.43		mg/kg	0.163	0.012	5
Indeno(1,2,3-cd)Pyrene	4.24		mg/kg	0.163	0.051	5
Dibenzo(a,h)anthracene	1.10		mg/kg	0.163	0.050	5
Benzo(g,h,i)perylene	4.89		mg/kg	0.163	0.059	5

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-08
Client ID: TP-11
Sample Location: BOWDOINHAM
Date Collected: 06/05/19 14:15
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
EPH w/MS Targets - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	69		40-140
o-Terphenyl	67		40-140
2-Fluorobiphenyl	75		40-140
2-Bromonaphthalene	75		40-140
o-Terphenyl-ms	73		40-140

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 131,VPH-18-2.1
Analytical Date: 06/12/19 09:08
Analyst: BAD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Petroleum Hydrocarbons - Westborough Lab for sample(s): 01-08 Batch: WG1248703-4					
C9-C10 Aromatics	ND		mg/kg	5.00	2.50
C5-C8 Aliphatics, Adjusted	ND		mg/kg	5.00	2.50
C9-C12 Aliphatics, Adjusted	ND		mg/kg	5.00	2.50
Benzene	ND		mg/kg	0.100	0.100
Toluene	ND		mg/kg	0.100	0.100
Ethylbenzene	ND		mg/kg	0.100	0.100
p/m-Xylene	ND		mg/kg	0.100	0.100
o-Xylene	ND		mg/kg	0.100	0.100
Methyl tert butyl ether	ND		mg/kg	0.050	0.050
Naphthalene	ND		mg/kg	0.500	0.200

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	109		70-130
2,5-Dibromotoluene-FID	108		70-130

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

Method Blank Analysis
Batch Quality Control

Analytical Method:	98,EPH-04-1.1			Extraction Method:	EPA 3546
Analytical Date:	06/16/19 16:51	M.S. Analytical Date:	06/18/19 08:53	Extraction Date:	06/15/19 03:07
Analyst:	SR	M.S. Analyst:	DV	Cleanup Method:	EPH-04-1
				Cleanup Date:	06/16/19

Parameter	Result	Qualifier	Units	RL	MDL
EPH w/MS Targets - Westborough Lab for sample(s): 01-08 Batch: WG1248881-1					
C9-C18 Aliphatics	ND		mg/kg	6.34	6.34
C19-C36 Aliphatics	ND		mg/kg	6.34	6.34
C11-C22 Aromatics	ND		mg/kg	6.34	6.34
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.34	6.34
Naphthalene	ND		mg/kg	0.025	0.006
2-Methylnaphthalene	ND		mg/kg	0.025	0.003
Acenaphthylene	ND		mg/kg	0.025	0.003
Acenaphthene	ND		mg/kg	0.025	0.002
Fluorene	ND		mg/kg	0.025	0.002
Phenanthrene	ND		mg/kg	0.025	0.003
Anthracene	ND		mg/kg	0.025	0.002
Fluoranthene	ND		mg/kg	0.025	0.004
Pyrene	ND		mg/kg	0.025	0.004
Benzo(a)anthracene	ND		mg/kg	0.025	0.002
Chrysene	ND		mg/kg	0.025	0.009
Benzo(b)fluoranthene	ND		mg/kg	0.025	0.008
Benzo(k)fluoranthene	ND		mg/kg	0.025	0.010
Benzo(a)pyrene	ND		mg/kg	0.025	0.002
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.025	0.008
Dibenzo(a,h)anthracene	ND		mg/kg	0.025	0.008
Benzo(ghi)perylene	ND		mg/kg	0.025	0.009

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Method Blank Analysis
Batch Quality Control

Analytical Method:	98,EPH-04-1.1		
Analytical Date:	06/16/19 16:51	06/18/19 08:53	
Analyst:	SR	DV	
Extraction Method:	EPA 3546		
Extraction Date:	06/15/19 03:07		
Cleanup Method:	EPH-04-1		
Cleanup Date:	06/16/19		

Parameter	Result	Qualifier	Units	RL	MDL
EPH w/MS Targets - Westborough Lab for sample(s): 01-08 Batch: WG1248881-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	62		40-140
o-Terphenyl	65		40-140
2-Fluorobiphenyl	77		40-140
2-Bromonaphthalene	77		40-140
O-Terphenyl-MS	51		40-140

Lab Control Sample Analysis
Batch Quality Control

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-08 Batch: WG1248703-2 WG1248703-3								
C5-C8 Aliphatics	93		94		70-130	1		25
C9-C12 Aliphatics	102		102		70-130	0		25
C9-C10 Aromatics	104		103		70-130	1		25
Benzene	101		101		70-130	0		25
Toluene	103		102		70-130	1		25
Ethylbenzene	106		106		70-130	0		25
p/m-Xylene	107		106		70-130	1		25
o-Xylene	102		101		70-130	1		25
Methyl tert butyl ether	106		105		70-130	1		25
Naphthalene	101		102		70-130	1		25
1,2,4-Trimethylbenzene	104		103		70-130	1		25
Pentane	85		85		70-130	0		25
2-Methylpentane	96		98		70-130	2		25
2,2,4-Trimethylpentane	96		97		70-130	1		25
n-Nonane	103		103		30-130	0		25
n-Decane	98		98		70-130	0		25
n-Butylcyclohexane	105		106		70-130	1		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,5-Dibromotoluene-PID	102		100		70-130
2,5-Dibromotoluene-FID	100		98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
EPH w/MS Targets - Westborough Lab Associated sample(s): 01-08 Batch: WG1248881-2 WG1248881-3								
C9-C18 Aliphatics	66		71		40-140	7		25
C19-C36 Aliphatics	70		76		40-140	8		25
C11-C22 Aromatics	65		74		40-140	13		25
Naphthalene	68		73		40-140	7		25
2-Methylnaphthalene	62		68		40-140	9		25
Acenaphthylene	70		76		40-140	8		25
Acenaphthene	78		86		40-140	10		25
Fluorene	72		80		40-140	11		25
Phenanthrene	74		80		40-140	8		25
Anthracene	76		84		40-140	10		25
Fluoranthene	70		82		40-140	16		25
Pyrene	70		75		40-140	7		25
Benzo(a)anthracene	76		85		40-140	11		25
Chrysene	76		83		40-140	9		25
Benzo(b)fluoranthene	72		82		40-140	13		25
Benzo(k)fluoranthene	73		80		40-140	9		25
Benzo(a)pyrene	70		79		40-140	12		25
Indeno(1,2,3-cd)Pyrene	76		85		40-140	11		25
Dibenzo(a,h)anthracene	74		81		40-140	9		25
Benzo(ghi)perylene	69		75		40-140	8		25
Nonane (C9)	55		57		30-140	4		25
Decane (C10)	60		63		40-140	5		25
Dodecane (C12)	63		68		40-140	8		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
EPH w/MS Targets - Westborough Lab Associated sample(s): 01-08 Batch: WG1248881-2 WG1248881-3								
Tetradecane (C14)	66		71		40-140	7		25
Hexadecane (C16)	68		73		40-140	7		25
Octadecane (C18)	69		74		40-140	7		25
Nonadecane (C19)	68		73		40-140	7		25
Eicosane (C20)	69		75		40-140	8		25
Docosane (C22)	70		75		40-140	7		25
Tetracosane (C24)	67		73		40-140	9		25
Hexacosane (C26)	67		72		40-140	7		25
Octacosane (C28)	67		72		40-140	7		25
Triacontane (C30)	67		72		40-140	7		25
Hexatriacontane (C36)	67		70		40-140	4		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	60		65		40-140
o-Terphenyl	56		66		40-140
2-Fluorobiphenyl	66		77		40-140
2-Bromonaphthalene	66		77		40-140
O-Terphenyl-MS	55		61		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		

PCBS

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-01
Client ID: TP-2
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 09:28
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/17/19 21:22
Analyst: HT
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 06/15/19 08:29
Cleanup Method: EPA 3665A
Cleanup Date: 06/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 06/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.4	3.32	1	A
Aroclor 1221	ND		ug/kg	37.4	3.75	1	A
Aroclor 1232	ND		ug/kg	37.4	7.94	1	A
Aroclor 1242	19.8	J	ug/kg	37.4	5.05	1	A
Aroclor 1248	ND		ug/kg	37.4	5.62	1	A
Aroclor 1254	9.50	J	ug/kg	37.4	4.10	1	A
Aroclor 1260	ND		ug/kg	37.4	6.92	1	A
Aroclor 1262	ND		ug/kg	37.4	4.76	1	A
Aroclor 1268	ND		ug/kg	37.4	3.88	1	A
PCBs, Total	29.3	J	ug/kg	37.4	3.32	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	81		30-150	B
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	74		30-150	A

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-02
Client ID: TP-3
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 10:00
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/17/19 21:35
Analyst: HT
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 06/15/19 08:29
Cleanup Method: EPA 3665A
Cleanup Date: 06/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 06/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.9	3.45	1	A
Aroclor 1221	ND		ug/kg	38.9	3.90	1	A
Aroclor 1232	ND		ug/kg	38.9	8.24	1	A
Aroclor 1242	37.4	J	ug/kg	38.9	5.24	1	A
Aroclor 1248	ND		ug/kg	38.9	5.83	1	A
Aroclor 1254	ND		ug/kg	38.9	4.25	1	A
Aroclor 1260	ND		ug/kg	38.9	7.19	1	A
Aroclor 1262	ND		ug/kg	38.9	4.94	1	A
Aroclor 1268	ND		ug/kg	38.9	4.03	1	A
PCBs, Total	37.4	J	ug/kg	38.9	3.45	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	98		30-150	B
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	88		30-150	A

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-03
Client ID: TP-4
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 10:30
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/17/19 21:48
Analyst: HT
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 06/15/19 08:29
Cleanup Method: EPA 3665A
Cleanup Date: 06/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 06/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.7	3.61	1	A
Aroclor 1221	ND		ug/kg	40.7	4.08	1	A
Aroclor 1232	ND		ug/kg	40.7	8.62	1	A
Aroclor 1242	20.5	J	ug/kg	40.7	5.48	1	A
Aroclor 1248	ND		ug/kg	40.7	6.10	1	A
Aroclor 1254	ND		ug/kg	40.7	4.45	1	A
Aroclor 1260	ND		ug/kg	40.7	7.52	1	A
Aroclor 1262	ND		ug/kg	40.7	5.17	1	A
Aroclor 1268	ND		ug/kg	40.7	4.21	1	A
PCBs, Total	20.5	J	ug/kg	40.7	3.61	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	84		30-150	B
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	76		30-150	A

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 06/17/19 20:31
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 06/15/19 08:29
Cleanup Method: EPA 3665A
Cleanup Date: 06/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 06/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-03 Batch: WG1248941-1						
Aroclor 1016	ND		ug/kg	31.5	2.80	A
Aroclor 1221	ND		ug/kg	31.5	3.16	A
Aroclor 1232	ND		ug/kg	31.5	6.69	A
Aroclor 1242	15.7	J	ug/kg	31.5	4.25	A
Aroclor 1248	ND		ug/kg	31.5	4.73	A
Aroclor 1254	ND		ug/kg	31.5	3.45	A
Aroclor 1260	ND		ug/kg	31.5	5.83	A
Aroclor 1262	ND		ug/kg	31.5	4.01	A
Aroclor 1268	ND		ug/kg	31.5	3.27	A
PCBs, Total	15.7	J	ug/kg	31.5	2.80	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	103		30-150	B
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	99		30-150	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1248941-2 WG1248941-3									
Aroclor 1016	86		86		40-140	0		50	A
Aroclor 1260	81		82		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		79		30-150	B
Decachlorobiphenyl	93		93		30-150	B
2,4,5,6-Tetrachloro-m-xylene	75		75		30-150	A
Decachlorobiphenyl	88		88		30-150	A

METALS

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-01
Client ID: TP-2
Sample Location: BOWDOINHAM
Date Collected: 06/05/19 09:28
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	10.1		mg/kg	0.439	0.091	1	06/14/19 23:39	06/18/19 12:04	EPA 3050B	1,6010D	LC
Barium, Total	42.6		mg/kg	0.439	0.076	1	06/14/19 23:39	06/18/19 12:04	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.439	0.043	1	06/14/19 23:39	06/18/19 12:04	EPA 3050B	1,6010D	LC
Chromium, Total	27.8		mg/kg	0.439	0.042	1	06/14/19 23:39	06/18/19 12:04	EPA 3050B	1,6010D	LC
Lead, Total	13.6		mg/kg	2.19	0.118	1	06/14/19 23:39	06/18/19 12:04	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.083	0.054	1	06/15/19 12:50	06/17/19 17:10	EPA 7471B	1,7471B	EA
Selenium, Total	ND		mg/kg	0.878	0.113	1	06/14/19 23:39	06/18/19 12:04	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.439	0.124	1	06/14/19 23:39	06/18/19 12:04	EPA 3050B	1,6010D	LC

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-02
Client ID: TP-3
Sample Location: BOWDOINHAM
Sample Depth:
Matrix: Soil
Percent Solids: 83%

Date Collected: 06/05/19 10:00
Date Received: 06/06/19
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	17.0		mg/kg	0.452	0.094	1	06/14/19 23:39	06/18/19 12:09	EPA 3050B	1,6010D	LC
Barium, Total	67.2		mg/kg	0.452	0.079	1	06/14/19 23:39	06/18/19 12:09	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.904	0.089	2	06/14/19 23:39	06/18/19 13:36	EPA 3050B	1,6010D	LC
Chromium, Total	40.7		mg/kg	0.452	0.043	1	06/14/19 23:39	06/18/19 12:09	EPA 3050B	1,6010D	LC
Lead, Total	42.2		mg/kg	2.26	0.121	1	06/14/19 23:39	06/18/19 12:09	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.080	0.052	1	06/18/19 12:04	06/18/19 14:01	EPA 7471B	1,7471B	GD
Selenium, Total	ND		mg/kg	0.904	0.117	1	06/14/19 23:39	06/18/19 12:09	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.452	0.128	1	06/14/19 23:39	06/18/19 12:09	EPA 3050B	1,6010D	LC

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-03
Client ID: TP-4
Sample Location: BOWDOINHAM
Date Collected: 06/05/19 10:30
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	13.2		mg/kg	0.496	0.103	1	06/14/19 23:39	06/18/19 12:13	EPA 3050B	1,6010D	LC
Barium, Total	74.3		mg/kg	0.496	0.086	1	06/14/19 23:39	06/18/19 12:13	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	2.48	0.243	5	06/14/19 23:39	06/18/19 14:35	EPA 3050B	1,6010D	LC
Chromium, Total	47.6		mg/kg	0.496	0.048	1	06/14/19 23:39	06/18/19 12:13	EPA 3050B	1,6010D	LC
Lead, Total	11.1		mg/kg	2.48	0.133	1	06/14/19 23:39	06/18/19 12:13	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.085	0.055	1	06/18/19 12:04	06/18/19 14:09	EPA 7471B	1,7471B	GD
Selenium, Total	ND		mg/kg	4.96	0.640	5	06/14/19 23:39	06/18/19 14:35	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.496	0.140	1	06/14/19 23:39	06/18/19 12:13	EPA 3050B	1,6010D	LC

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-04
Client ID: TP-5
Sample Location: BOWDOINHAM
Sample Depth:
Matrix: Soil
Percent Solids: 80%

Date Collected: 06/05/19 11:05
Date Received: 06/06/19
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	13.4		mg/kg	0.471	0.098	1	06/14/19 23:39	06/18/19 12:18	EPA 3050B	1,6010D	LC
Barium, Total	70.0		mg/kg	0.471	0.082	1	06/14/19 23:39	06/18/19 12:18	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.943	0.092	2	06/14/19 23:39	06/18/19 13:45	EPA 3050B	1,6010D	LC
Chromium, Total	42.3		mg/kg	0.471	0.045	1	06/14/19 23:39	06/18/19 12:18	EPA 3050B	1,6010D	LC
Lead, Total	14.2		mg/kg	2.36	0.126	1	06/14/19 23:39	06/18/19 12:18	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.096	0.062	1	06/18/19 12:04	06/18/19 14:11	EPA 7471B	1,7471B	GD
Selenium, Total	ND		mg/kg	1.88	0.243	2	06/14/19 23:39	06/18/19 13:45	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.471	0.133	1	06/14/19 23:39	06/18/19 12:18	EPA 3050B	1,6010D	LC

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-05
Client ID: TP-6
Sample Location: BOWDOINHAM
Sample Depth:
Matrix: Soil
Percent Solids: 61%

Date Collected: 06/05/19 11:30
Date Received: 06/06/19
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	7.68		mg/kg	0.640	0.133	1	06/14/19 23:39	06/18/19 12:22	EPA 3050B	1,6010D	LC
Barium, Total	18.7		mg/kg	0.640	0.111	1	06/14/19 23:39	06/18/19 12:22	EPA 3050B	1,6010D	LC
Cadmium, Total	2.28		mg/kg	0.640	0.063	1	06/14/19 23:39	06/18/19 12:22	EPA 3050B	1,6010D	LC
Chromium, Total	36.2		mg/kg	0.640	0.062	1	06/14/19 23:39	06/18/19 12:22	EPA 3050B	1,6010D	LC
Lead, Total	6.06		mg/kg	3.20	0.172	1	06/14/19 23:39	06/18/19 12:22	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.116	0.076	1	06/18/19 12:04	06/18/19 14:13	EPA 7471B	1,7471B	GD
Selenium, Total	ND		mg/kg	1.28	0.165	1	06/14/19 23:39	06/18/19 12:22	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.640	0.181	1	06/14/19 23:39	06/18/19 12:22	EPA 3050B	1,6010D	LC

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-06
Client ID: TP-9
Sample Location: BOWDOINHAM
Date Collected: 06/05/19 13:48
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	13.6		mg/kg	0.473	0.098	1	06/14/19 23:39	06/18/19 12:27	EPA 3050B	1,6010D	LC
Barium, Total	81.4		mg/kg	0.473	0.082	1	06/14/19 23:39	06/18/19 12:27	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	2.36	0.232	5	06/14/19 23:39	06/18/19 13:50	EPA 3050B	1,6010D	LC
Chromium, Total	47.4		mg/kg	0.473	0.045	1	06/14/19 23:39	06/18/19 12:27	EPA 3050B	1,6010D	LC
Lead, Total	22.0		mg/kg	2.36	0.127	1	06/14/19 23:39	06/18/19 12:27	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.092	0.060	1	06/18/19 12:04	06/18/19 14:18	EPA 7471B	1,7471B	GD
Selenium, Total	ND		mg/kg	0.946	0.122	1	06/14/19 23:39	06/18/19 12:27	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.473	0.134	1	06/14/19 23:39	06/18/19 12:27	EPA 3050B	1,6010D	LC

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-07
Client ID: TP-8
Sample Location: BOWDOINHAM
Date Collected: 06/05/19 13:10
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	14.4		mg/kg	0.501	0.104	1	06/14/19 23:39	06/18/19 12:32	EPA 3050B	1,6010D	LC
Barium, Total	63.6		mg/kg	0.501	0.087	1	06/14/19 23:39	06/18/19 12:32	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	1.00	0.098	2	06/14/19 23:39	06/18/19 13:54	EPA 3050B	1,6010D	LC
Chromium, Total	45.2		mg/kg	0.501	0.048	1	06/14/19 23:39	06/18/19 12:32	EPA 3050B	1,6010D	LC
Lead, Total	15.8		mg/kg	2.51	0.134	1	06/14/19 23:39	06/18/19 12:32	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.101	0.066	1	06/18/19 12:04	06/18/19 14:20	EPA 7471B	1,7471B	GD
Selenium, Total	ND		mg/kg	1.00	0.129	1	06/14/19 23:39	06/18/19 12:32	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.501	0.142	1	06/14/19 23:39	06/18/19 12:32	EPA 3050B	1,6010D	LC

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified
Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-08
Client ID: TP-11
Sample Location: BOWDOINHAM
Date Collected: 06/05/19 14:15
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	6.54		mg/kg	0.484	0.101	1	06/14/19 23:39	06/18/19 13:13	EPA 3050B	1,6010D	LC
Barium, Total	35.9		mg/kg	0.484	0.084	1	06/14/19 23:39	06/18/19 13:13	EPA 3050B	1,6010D	LC
Cadmium, Total	1.98		mg/kg	0.484	0.047	1	06/14/19 23:39	06/18/19 13:13	EPA 3050B	1,6010D	LC
Chromium, Total	36.6		mg/kg	0.484	0.047	1	06/14/19 23:39	06/18/19 13:13	EPA 3050B	1,6010D	LC
Lead, Total	13.0		mg/kg	2.42	0.130	1	06/14/19 23:39	06/18/19 13:13	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.082	0.053	1	06/18/19 12:04	06/18/19 14:22	EPA 7471B	1,7471B	GD
Selenium, Total	ND		mg/kg	0.968	0.125	1	06/14/19 23:39	06/18/19 13:13	EPA 3050B	1,6010D	LC
Silver, Total	0.213	J	mg/kg	0.484	0.137	1	06/14/19 23:39	06/18/19 13:13	EPA 3050B	1,6010D	LC

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-08 Batch: WG1248788-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	06/14/19 23:39	06/18/19 10:43	1,6010D	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	06/14/19 23:39	06/18/19 10:43	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	06/14/19 23:39	06/18/19 10:43	1,6010D	LC
Chromium, Total	0.060	J	mg/kg	0.400	0.038	1	06/14/19 23:39	06/18/19 10:43	1,6010D	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	06/14/19 23:39	06/18/19 10:43	1,6010D	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	06/14/19 23:39	06/18/19 10:43	1,6010D	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	06/14/19 23:39	06/18/19 10:43	1,6010D	LC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1248989-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	06/15/19 12:50	06/17/19 13:48	1,7471B	BV

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02-08 Batch: WG1248992-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	06/18/19 12:04	06/18/19 13:58	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis
Batch Quality Control

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1248788-2 SRM Lot Number: D105-540								
Arsenic, Total	113		-		70-130	-		
Barium, Total	110		-		75-125	-		
Cadmium, Total	118		-		75-125	-		
Chromium, Total	107		-		70-130	-		
Lead, Total	103		-		71-128	-		
Selenium, Total	111		-		63-137	-		
Silver, Total	110		-		69-131	-		
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1248989-2 SRM Lot Number: D105-540								
Mercury, Total	83		-		60-141	-		
Total Metals - Mansfield Lab Associated sample(s): 02-08 Batch: WG1248992-2 SRM Lot Number: D105-540								
Mercury, Total	91		-		60-141	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-08 QC Batch ID: WG1248992-3 QC Sample: L1924143-02 Client ID: TP-3												
Mercury, Total	ND	0.166	0.164	98		-	-		80-120	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-08 QC Batch ID: WG1248992-4 QC Sample: L1924143-02 Client ID: TP-3						
Mercury, Total	ND	ND	mg/kg	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-01
Client ID: TP-2
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 09:28
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.7		%	0.100	NA	1	-	06/07/19 13:41	121,2540G	RI

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-02
Client ID: TP-3
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 10:00
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.0		%	0.100	NA	1	-	06/07/19 13:41	121,2540G	RI

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-03
Client ID: TP-4
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 10:30
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.2		%	0.100	NA	1	-	06/07/19 13:41	121,2540G	RI

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-04
Client ID: TP-5
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 11:05
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.3		%	0.100	NA	1	-	06/07/19 13:41	121,2540G	RI

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-05
Client ID: TP-6
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 11:30
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	61.1		%	0.100	NA	1	-	06/07/19 13:41	121,2540G	RI

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-06
Client ID: TP-9
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 13:48
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.2		%	0.100	NA	1	-	06/07/19 13:41	121,2540G	RI

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-07
Client ID: TP-8
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 13:10
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.5		%	0.100	NA	1	-	06/07/19 13:41	121,2540G	RI

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924143-08
Client ID: TP-11
Sample Location: BOWDOINHAM

Date Collected: 06/05/19 14:15
Date Received: 06/06/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.3		%	0.100	NA	1	-	06/07/19 13:41	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: CENTRAL CHEMICAL CO.
Project Number: Not Specified

Lab Number: L1924143
Report Date: 06/19/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1245854-1 QC Sample: L1924143-01 Client ID: TP-2						
Solids, Total	85.7	84.1	%	2		20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1924143-01A	Vial MeOH preserved	B	NA		3.0	Y	Absent		8260HLW(14),VPH-DELUX-18(28)
L1924143-01B	Vial water preserved	A	NA		3.5	Y	Absent	07-JUN-19 00:41	8260HLW(14)
L1924143-01C	Vial water preserved	A	NA		3.5	Y	Absent	07-JUN-19 00:41	8260HLW(14)
L1924143-01D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		ME-TS-2540(7)
L1924143-01E	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		ME-TS-2540(7)
L1924143-01F	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.0	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1924143-01G	Glass 60mL/2oz unpreserved	B	NA		3.0	Y	Absent		PCB-8082(14)
L1924143-01H	Glass 250ml/8oz unpreserved	B	NA		3.0	Y	Absent		8270TCL(14),8270TCL-SIM(14),EPH-MS-10(14),EPHD-GC-10(14)
L1924143-02A	Vial MeOH preserved	B	NA		3.0	Y	Absent		8260HLW(14),VPH-DELUX-18(28)
L1924143-02B	Vial water preserved	A	NA		3.5	Y	Absent	07-JUN-19 00:41	8260HLW(14)
L1924143-02C	Vial water preserved	A	NA		3.5	Y	Absent	07-JUN-19 00:41	8260HLW(14)
L1924143-02D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		ME-TS-2540(7)
L1924143-02E	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		ME-TS-2540(7)
L1924143-02F	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.0	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1924143-02G	Glass 60mL/2oz unpreserved	B	NA		3.0	Y	Absent		PCB-8082(14)
L1924143-02H	Glass 250ml/8oz unpreserved	B	NA		3.0	Y	Absent		8270TCL(14),8270TCL-SIM(14),EPH-MS-10(14),EPHD-GC-10(14)
L1924143-03A	Vial MeOH preserved	B	NA		3.0	Y	Absent		8260HLW(14),VPH-DELUX-18(28)
L1924143-03B	Vial water preserved	A	NA		3.5	Y	Absent	07-JUN-19 00:41	8260HLW(14)
L1924143-03C	Vial water preserved	A	NA		3.5	Y	Absent	07-JUN-19 00:41	8260HLW(14)
L1924143-03D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		ME-TS-2540(7)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1924143-03E	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		ME-TS-2540(7)
L1924143-03F	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.0	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1924143-03G	Glass 60mL/2oz unpreserved	B	NA		3.0	Y	Absent		PCB-8082(14)
L1924143-03H	Glass 250ml/8oz unpreserved	B	NA		3.0	Y	Absent		8270TCL(14),8270TCL-SIM(14),EPH-MS-10(14),EPHD-GC-10(14)
L1924143-04A	Vial MeOH preserved	B	NA		3.0	Y	Absent		8260HLW(14),VPH-DELUX-18(28)
L1924143-04B	Vial water preserved	A	NA		3.5	Y	Absent	07-JUN-19 00:41	8260HLW(14)
L1924143-04C	Vial water preserved	A	NA		3.5	Y	Absent	07-JUN-19 00:41	8260HLW(14)
L1924143-04D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		ME-TS-2540(7)
L1924143-04E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.0	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1924143-04F	Glass 250ml/8oz unpreserved	B	NA		3.0	Y	Absent		8270TCL(14),8270TCL-SIM(14),EPH-MS-10(14),EPHD-GC-10(14)
L1924143-05A	Vial MeOH preserved	B	NA		3.0	Y	Absent		8260HLW(14),VPH-DELUX-18(28)
L1924143-05B	Vial water preserved	A	NA		3.5	Y	Absent	07-JUN-19 00:41	8260HLW(14)
L1924143-05C	Vial water preserved	A	NA		3.5	Y	Absent	07-JUN-19 00:41	8260HLW(14)
L1924143-05D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		ME-TS-2540(7)
L1924143-05E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.0	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1924143-05F	Glass 250ml/8oz unpreserved	B	NA		3.0	Y	Absent		8270TCL(14),8270TCL-SIM(14),EPH-MS-10(14),EPHD-GC-10(14)
L1924143-06A	Vial MeOH preserved	B	NA		3.0	Y	Absent		8260HLW(14),VPH-DELUX-18(28)
L1924143-06B	Vial water preserved	A	NA		3.5	Y	Absent	07-JUN-19 00:41	8260HLW(14)
L1924143-06C	Vial water preserved	A	NA		3.5	Y	Absent	07-JUN-19 00:41	8260HLW(14)
L1924143-06D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		ME-TS-2540(7)
L1924143-06E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.0	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1924143-06F	Glass 250ml/8oz unpreserved	B	NA		3.0	Y	Absent		8270TCL(14),8270TCL-SIM(14),EPH-MS-10(14),EPHD-GC-10(14)
L1924143-07A	Vial MeOH preserved	B	NA		3.0	Y	Absent		8260HLW(14),VPH-DELUX-18(28)
L1924143-07B	Vial water preserved	A	NA		3.5	Y	Absent	07-JUN-19 00:41	8260HLW(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1924143-07C	Vial water preserved	A	NA		3.5	Y	Absent	07-JUN-19 00:41	8260HLW(14)
L1924143-07D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		ME-TS-2540(7)
L1924143-07E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.0	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1924143-07F	Glass 250ml/8oz unpreserved	B	NA		3.0	Y	Absent		8270TCL(14),8270TCL-SIM(14),EPH-MS-10(14),EPHD-GC-10(14)
L1924143-08A	Vial MeOH preserved	B	NA		3.0	Y	Absent		8260HLW(14),VPH-DELUX-18(28)
L1924143-08B	Vial water preserved	A	NA		3.5	Y	Absent	07-JUN-19 00:41	8260HLW(14)
L1924143-08C	Vial water preserved	A	NA		3.5	Y	Absent	07-JUN-19 00:41	8260HLW(14)
L1924143-08D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		ME-TS-2540(7)
L1924143-08E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.0	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1924143-08F	Glass 250ml/8oz unpreserved	B	NA		3.0	Y	Absent		8270TCL(14),8270TCL-SIM(14),EPH-MS-10(14),EPHD-GC-10(14)
L1924143-09A	Vial MeOH preserved	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L1924143-09B	Vial water preserved	A	NA		3.5	Y	Absent	**07-JUN-19 00:41**	HOLD-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: CENTRAL CHEMICAL CO. **Lab Number:** L1924143

Project Number: Not Specified **Report Date:** 06/19/19

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers

Project Name:	CENTRAL CHEMICAL CO.	**Lab Number:**	L1924143
Project Number:	Not Specified	**Report Date:**	06/19/19

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	CENTRAL CHEMICAL CO.	**Lab Number:**	L1924143
Project Number:	Not Specified	**Report Date:**	06/19/19

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

98 Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), MassDEP, May 2004, Revision 1.1 with QC Requirements & Performance Standards for the Analysis of EPH under the Massachusetts Contingency Plan, WSC-CAM-IVB, July 2010.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

131 Method for the Determination of Volatile Petroleum Hydrocarbons (VPH), MassDEP, February 2018, Revision 2.1 with QC Requirements & Performance Standards for the Analysis of VPH under the Massachusetts Contingency Plan, WSC-CAM-IVA, June 1, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Serial_No:06191917:23

CHAIN OF CUSTODY

PAGE ____ OF ____

ALPHA ANALYTICAL

8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Date Rec'd in Lab:

ALPHA Job #: L1924193 REM01

Project Information
Project Name: Central Chemical CO.
Project Location: Bowdoin Ham
Project #:
Project Manager:
ALPHA Quote #:

Report Information - Data Deliverables
☐ ADEx ☐ EMAIL

Billing Information
☐ Same as Client info PO #:

Client Information
Client: MEDEP
Address: 17 Stat House Street
Augusta, ME
Phone: 207 28
Email: Matthew.T.Burke@Maine.gov

Regulatory Requirements & Project Information Requirements
☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program ____ Criteria ____

Turn-Around Time
☐ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due:

Additional Project Information:

ANALYSIS: VOC: ☒ 8260 ☐ 624 ☐ 524.2 · SVOC: ☒ ABN ☐ PAH · METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15 · METALS: ☐ RCRA5 ☒ RCRA8 ☐ PP13 · EPH: ☒ Ranges & Targets ☐ Ranges Only · VPH: ☒ Ranges & Targets ☐ Ranges Only · ☒ PCB ☐ PEST · TPH: ☐ Quant Only ☐ Fingerprint

SAMPLE INFO
Filtration ☐ Field ☐ Lab to do
Preservation ☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	VOC	SVOC	METALS (MCP)	METALS (RCRA)	EPH	VPH	PCB	TPH	Sample Comments	TOTAL # BOTTLES
	TP-2	6/5/19	0928	S	MTB	X	X		X	X	X	X			8
	TP-3	6/5/19	1000	S	MTB	X	X		X	X	X	X			8
	TP-4	6/5/19	1030	S	MTB	X	X		X	X	X	X			8
	TP-5	6/5/19	1105	S	MTB	X	X		X	X	X				6
	TP-6	6/5/19	1130	S	MTB	X	X		X	X	X				6
	TP-9	6/5/19	1348	S	MTB	X	X		X	X	X				6
	TP-8	6/5/19	1310	S	MTB	X	X		X	X	X				6
	TP-11	6/5/19	1415	S	MTB	X	X		X	X	X				6
	Trip Blank	6/5/19													

	VOC	SVOC	METALS (MCP)	METALS (RCRA)	EPH	VPH
Container Type	A	A		A	A	A
Preservative	A	A		A	A	F

Container Type: P= Plastic, A= Amber glass, V= Vial, G= Glass, B= Bacteria cup, C= Cube, O= Other, E= Encore, D= BOD Bottle

Preservative: A= None, B= HCl, C= HNO_3, D= H_2SO_4, E= NaOH, F= MeOH, G= $NaHSO_4$, H = $Na_2S_2O_3$, I= Ascorbic Acid, J = NH_4Cl, K= Zn Acetate, O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	6/5/19 1615	[signature]	6/6/19 1400
[signature]	6/6/19 1451	[signature]	6/6/19 1451
[signature]	6/6/19 1550	[signature]	6/6/19 1550

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

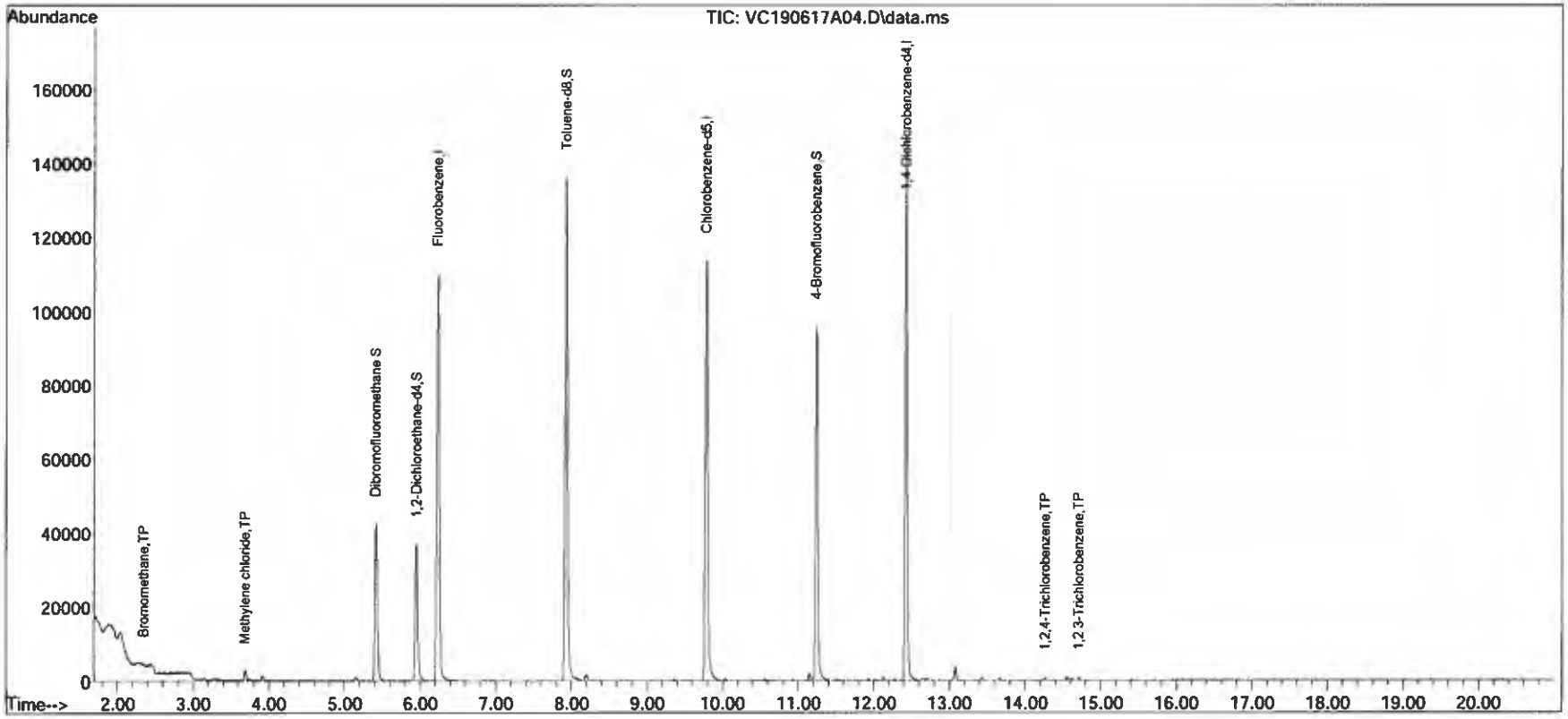
FORM NO: 01-01 (rev. 12-Mar-2012)

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\190617A\
Data File : VC190617A04.D
Acq On : 17 Jun 2019 7:23 am
Operator : CHARLIE:MV
Sample : WG1249599-5,31,5,5
Misc : WG1249599,ICAL15845
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 17 07:58:13 2019
Quant Method : I:\VOLATILES\Charlie\2019\190617A\C_190603N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Jun 04 09:24:00 2019
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox17A\VC190617A01.D•

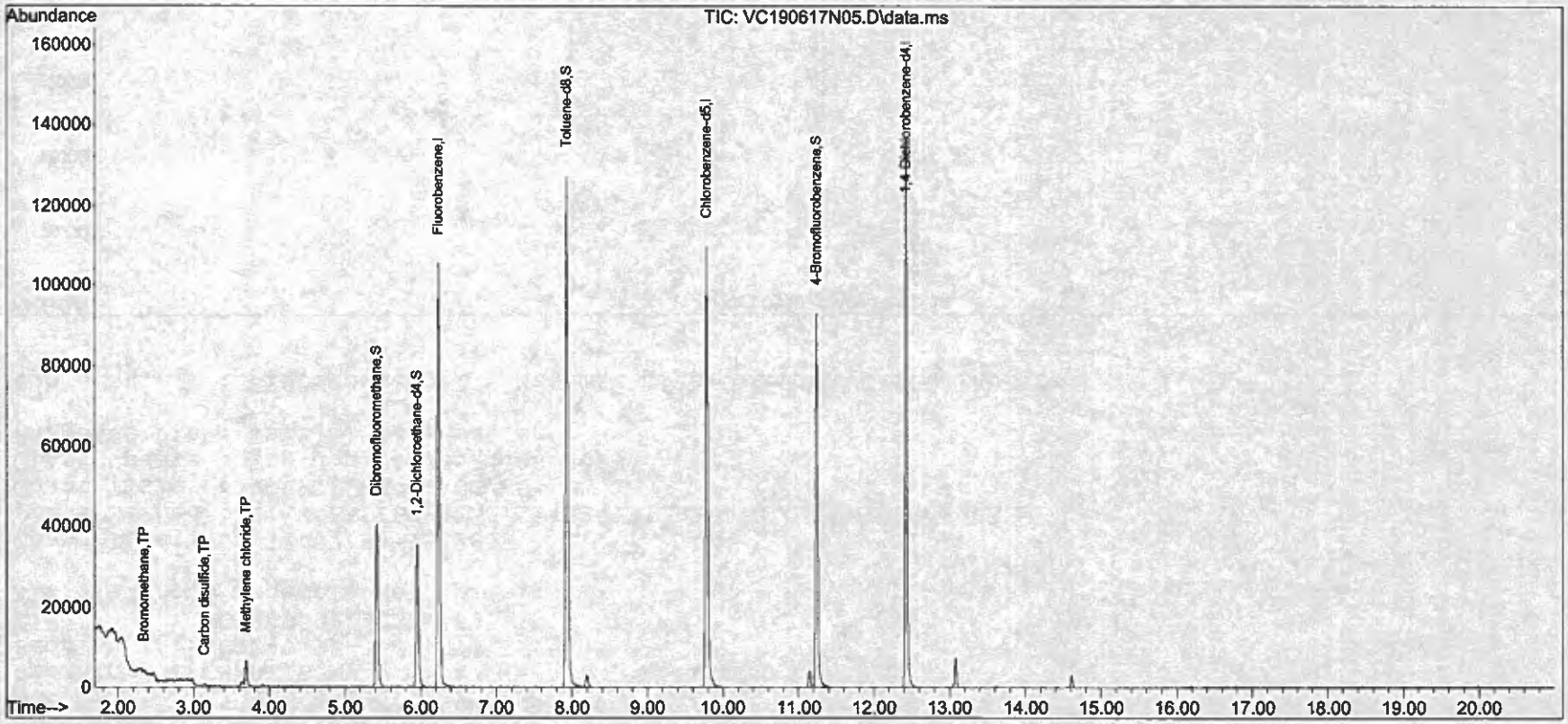


Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\190617N\
Data File : VC190617N05.D
Acq On : 17 Jun 2019 8:18 pm
Operator : CHARLIE:AD
Sample : WG1249762-5,31,5,5
Misc : WG1249762,ICAL15845
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 17 22:17:14 2019
Quant Method : I:\VOLATILES\Charlie\2019\190617N\C_190603N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Jun 04 09:24:00 2019
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox17N\VC190617N01.D•

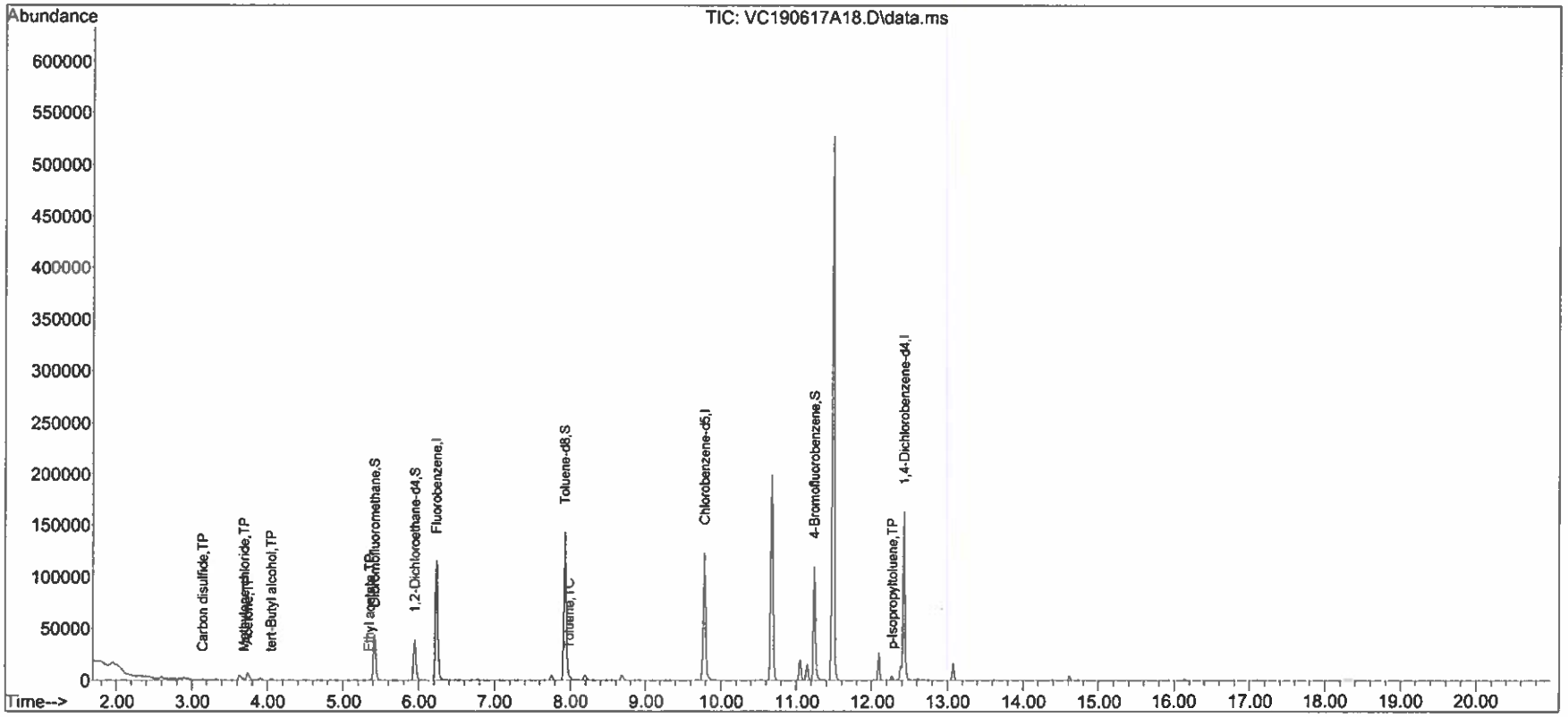


Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\190617A\
Data File : VC190617A18.D
Acq On : 17 Jun 2019 1:44 pm
Operator : CHARLIE:JC
Sample : 11924143-01,31,7.21,5,,b
Misc : WG1249599,ICAL15845
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 18 11:37:29 2019
Quant Method : I:\VOLATILES\Charlie\2019\190617A\C_190603N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Jun 04 09:24:00 2019
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox17A\VC190617A01.D•

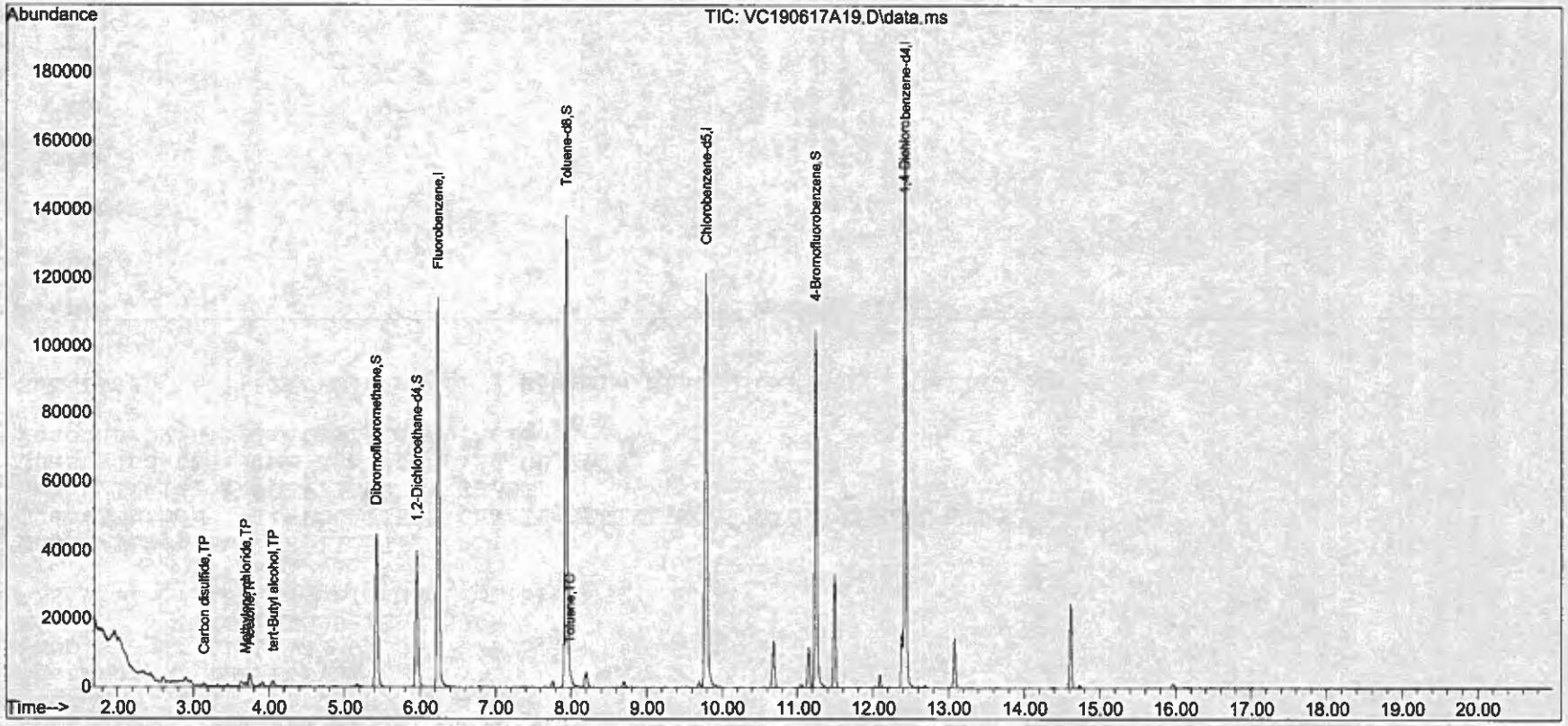


Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\190617A\
Data File : VC190617A19.D
Acq On : 17 Jun 2019 2:11 pm
Operator : CHARLIE:JC
Sample : 11924143-02,31,6.18,5,,b
Misc : WG1249599,ICAL15845
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 17 19:42:30 2019
Quant Method : I:\VOLATILES\Charlie\2019\190617A\C_190603N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Jun 04 09:24:00 2019
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox17A\VC190617A01.D•



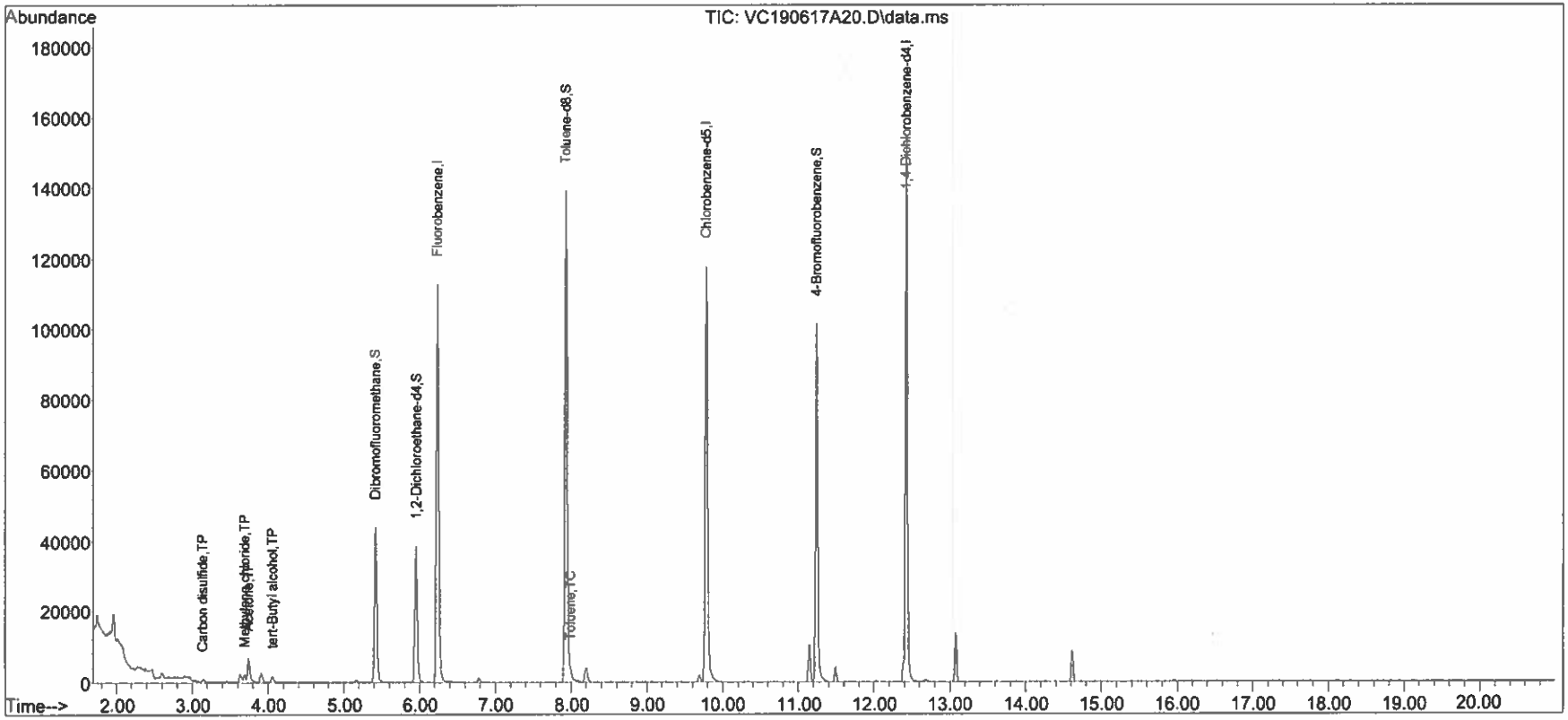
C_190603N_8260.m Mon Jun 17 19:44:34 2019 Page: 4

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\190617A\
Data File : VC190617A20.D
Acq On : 17 Jun 2019 2:38 pm
Operator : CHARLIE:JC
Sample : 11924143-03,31,6.32,5,,b
Misc : WG1249599,ICAL15845
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 17 19:42:48 2019
Quant Method : I:\VOLATILES\Charlie\2019\190617A\C_190603N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Jun 04 09:24:00 2019
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox17A\VC190617A01.D•



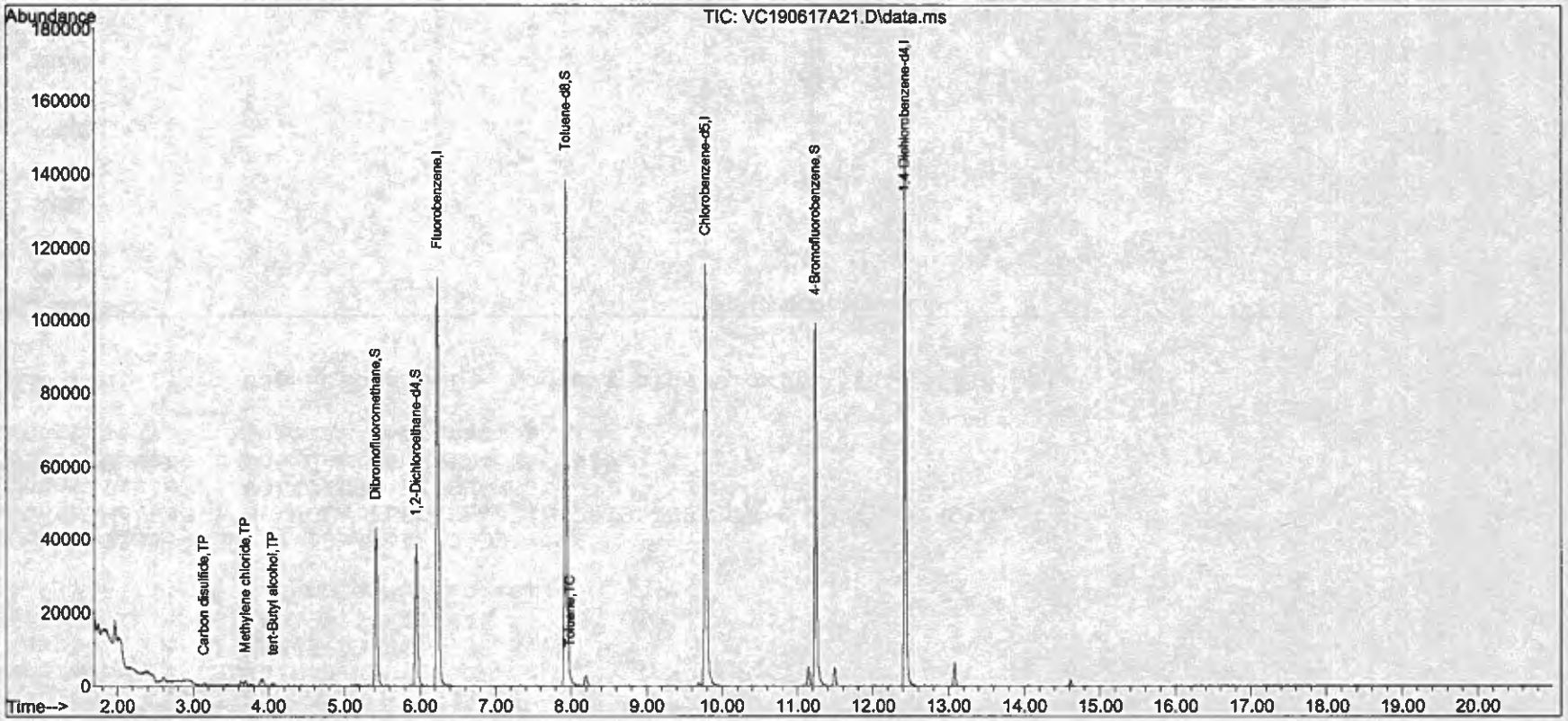
C_190603N_8260.m Mon Jun 17 19:44:38 2019 Page: 4

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\190617A\
Data File : VC190617A21.D
Acq On : 17 Jun 2019 3:05 pm
Operator : CHARLIE:JC
Sample : 11924143-04,31,6.99,5,,b
Misc : WG1249599,ICAL15845
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 17 19:43:01 2019
Quant Method : I:\VOLATILES\Charlie\2019\190617A\C_190603N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Jun 04 09:24:00 2019
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox17A\VC190617A01.D•

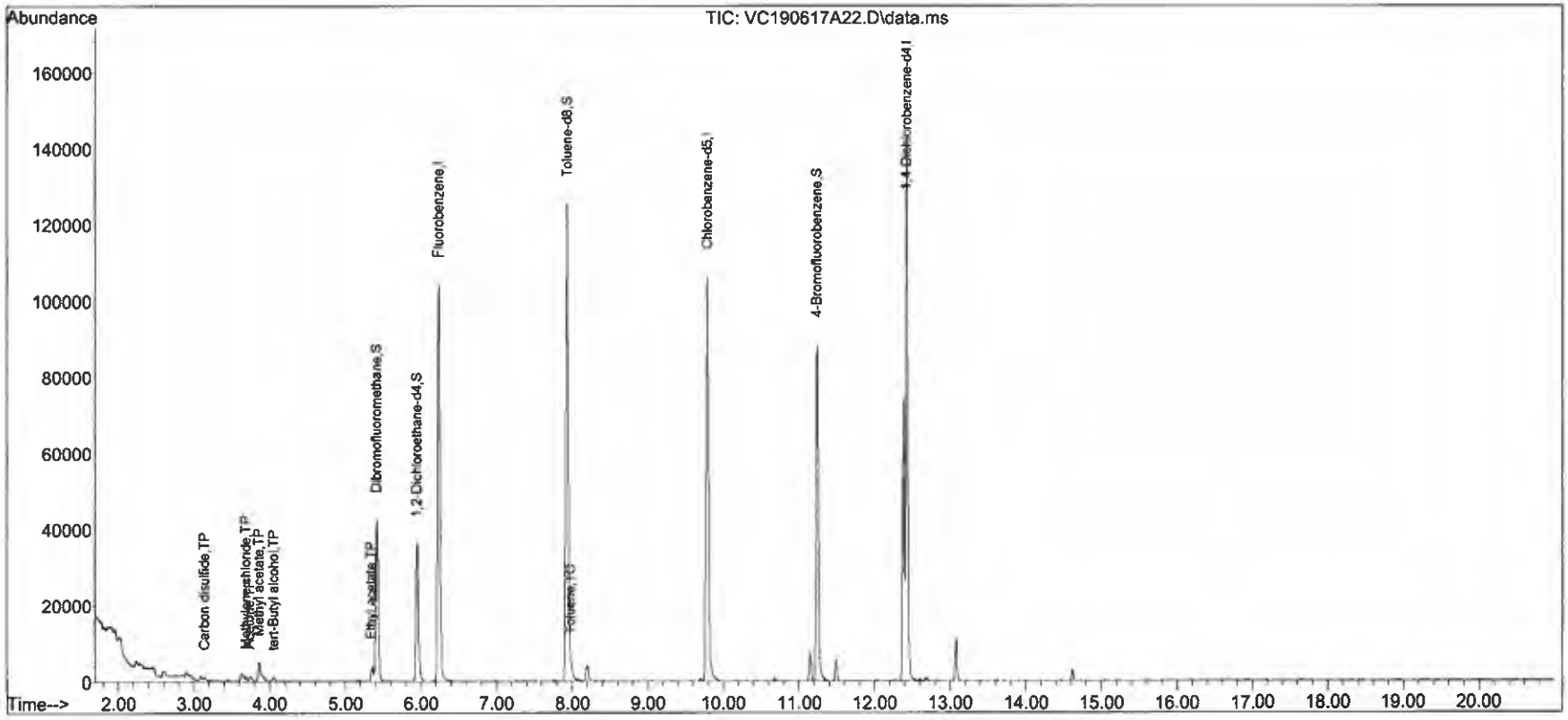


Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\190617A\
Data File : VC190617A22.D
Acq On : 17 Jun 2019 3:33 pm
Operator : CHARLIE:JC
Sample : 11924143-05,31,7.68,5,,b
Misc : WG1249599,ICAL15845
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 17 17:46:36 2019
Quant Method : I:\VOLATILES\Charlie\2019\190617A\C_190603N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Jun 04 09:24:00 2019
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox17A\VC190617A01.D•

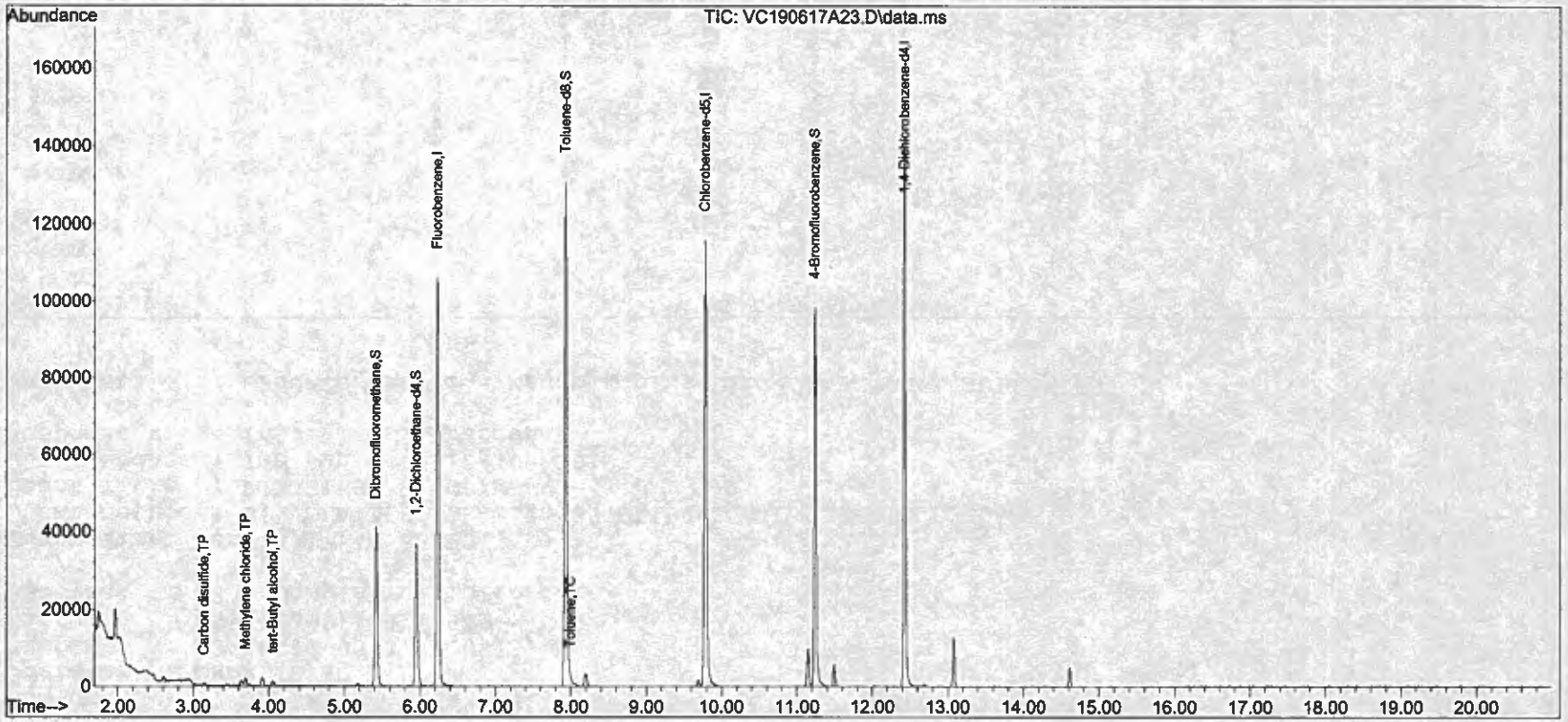


Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\190617A\
Data File : VC190617A23.D
Acq On : 17 Jun 2019 4:00 pm
Operator : CHARLIE:JC
Sample : 11924143-06,31,6.15,5,,b
Misc : WG1249599,ICAL15845
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 17 19:43:29 2019
Quant Method : I:\VOLATILES\Charlie\2019\190617A\C_190603N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Jun 04 09:24:00 2019
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox17A\VC190617A01.D•



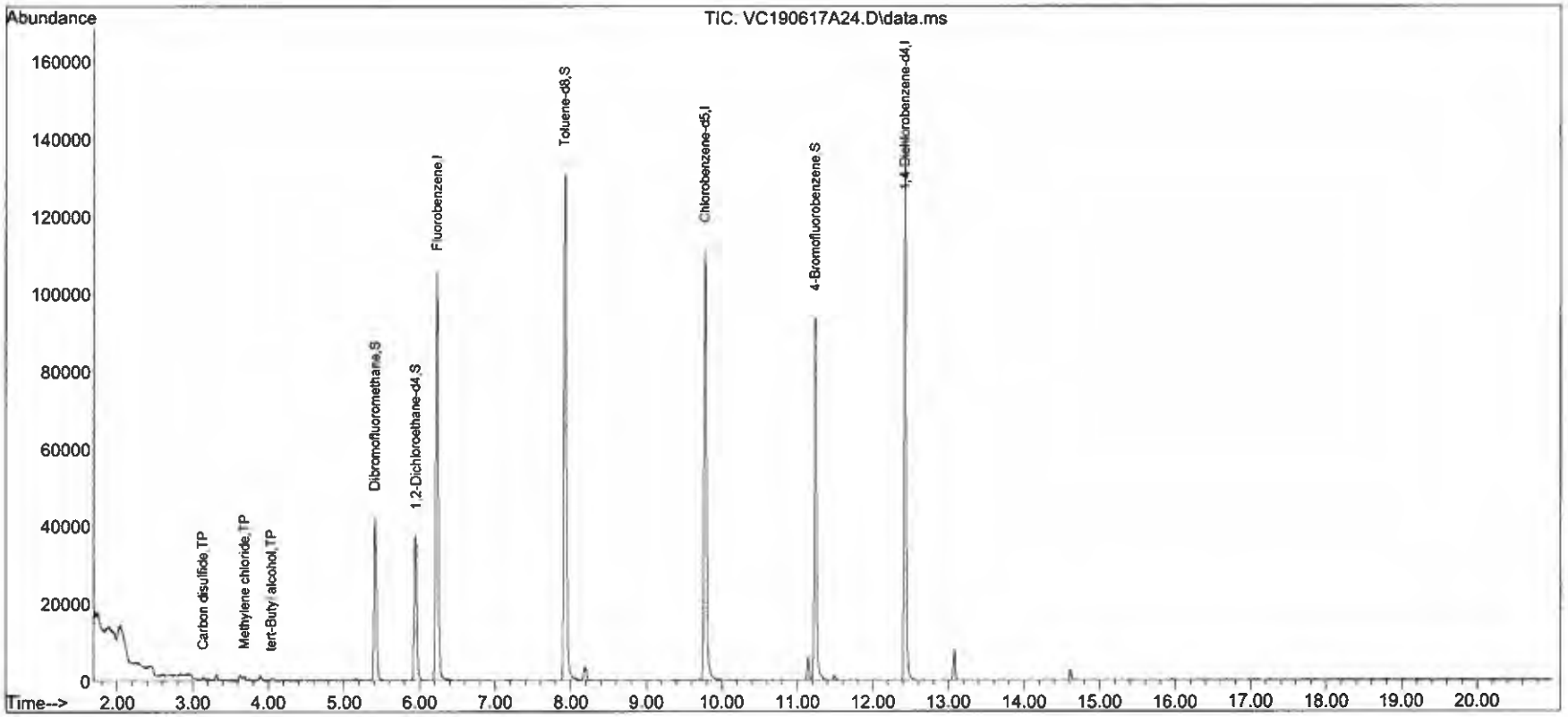
C_190603N_8260.m Mon Jun 17 19:44:53 2019 Page: 4

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\190617A\
Data File : VC190617A24.D
Acq On : 17 Jun 2019 4:27 pm
Operator : CHARLIE:JC
Sample : 11924143-07,31,6.58,5,,b
Misc : WG1249599,ICAL15845
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 17 19:43:42 2019
Quant Method : I:\VOLATILES\Charlie\2019\190617A\C_190603N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Jun 04 09:24:00 2019
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox17A\VC190617A01.D•

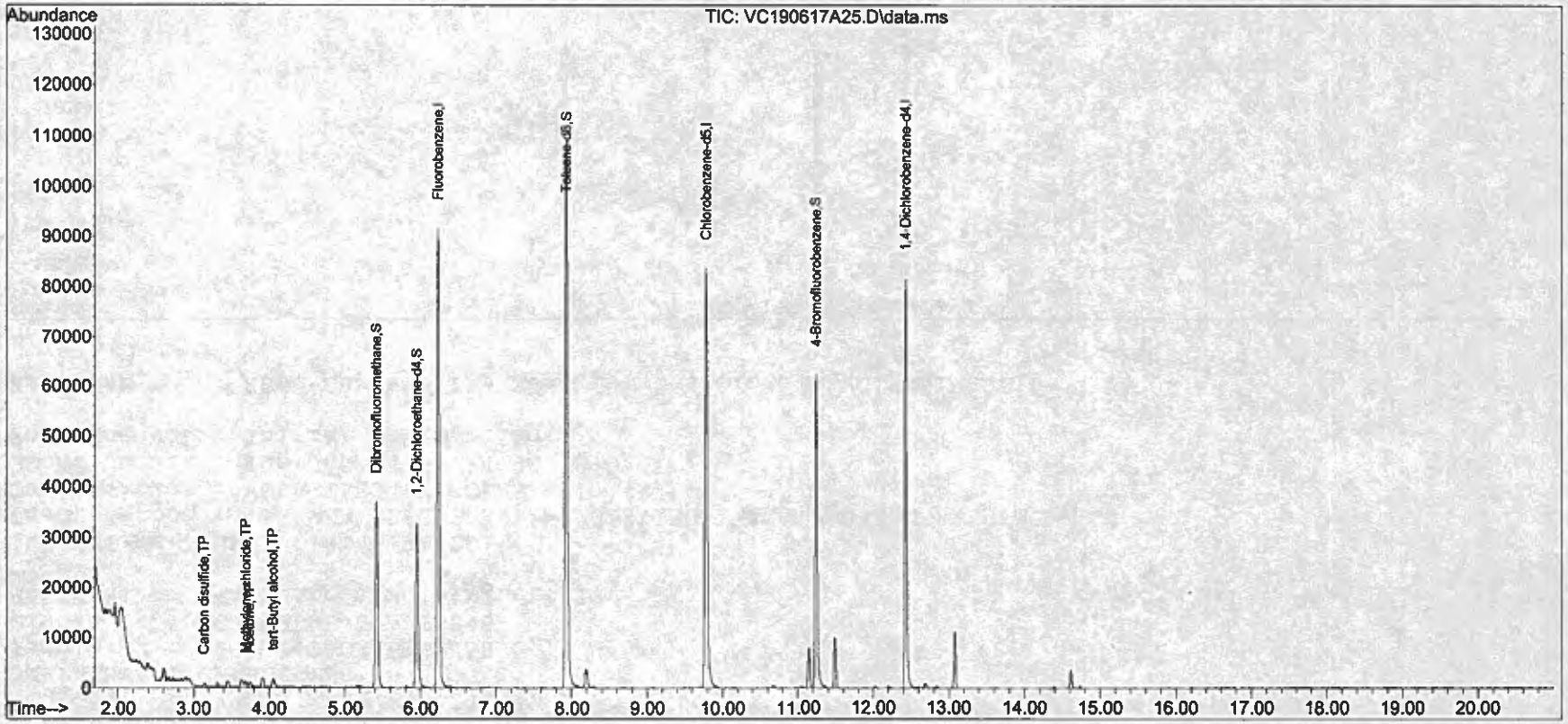


Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\190617A\
Data File : VC190617A25.D
Acq On : 17 Jun 2019 4:55 pm
Operator : CHARLIE:JC
Sample : 11924143-08,31,5.92,5,,b
Misc : WG1249599,ICAL15845
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 17 19:43:57 2019
Quant Method : I:\VOLATILES\Charlie\2019\190617A\C_190603N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Jun 04 09:24:00 2019
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox17A\VC190617A01.D•

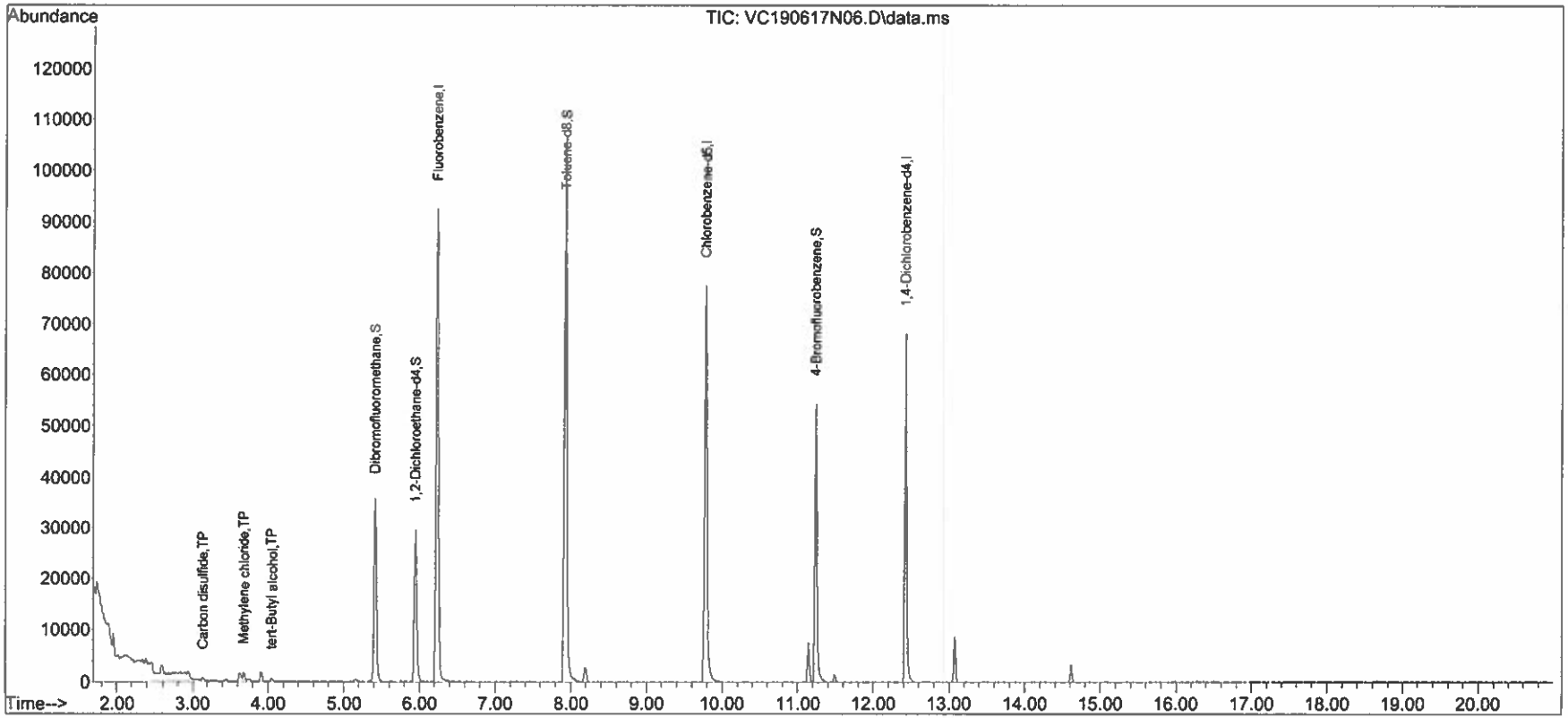


Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\190617N\
Data File : VC190617N06.D
Acq On : 17 Jun 2019 8:46 pm
Operator : CHARLIE:NLK
Sample : 11924143-08R,31,5.97,5,,c
Misc : WG1249762,ICAL15845
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 18 08:24:56 2019
Quant Method : I:\VOLATILES\Charlie\2019\190617N\C_190603N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Jun 04 09:24:00 2019
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox17N\VC190617N01.D•

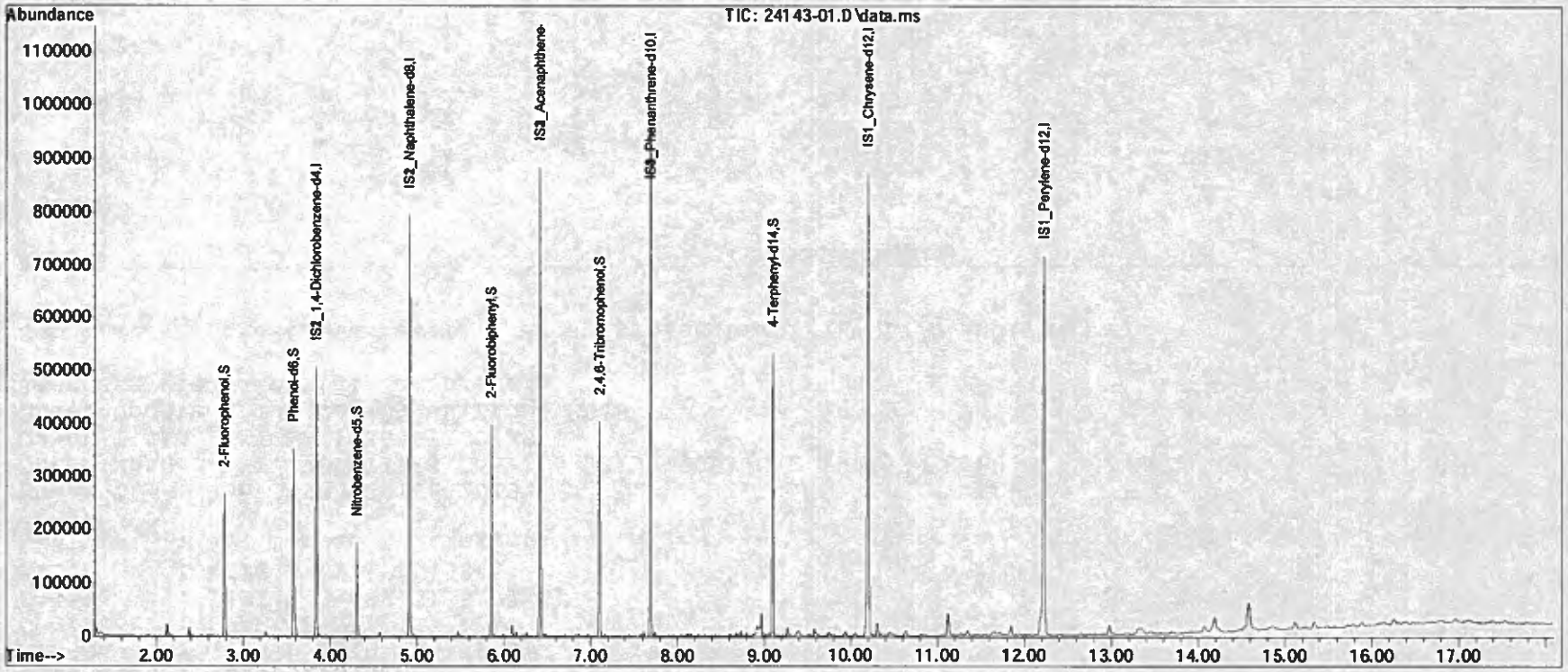


Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\190617\
Data File : 24143-01.D
Acq On : 17 Jun 2019 12:54 pm
Operator : juliet:kr
Sample : L1924143-01,32,,tcl,im
Misc : wg1249403,wg1248889,ical15862
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 19 09:18:12 2019
Quant Method : I:\8270\Juliet\190617\FS190610juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 13:17:21 2019
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA617.D•

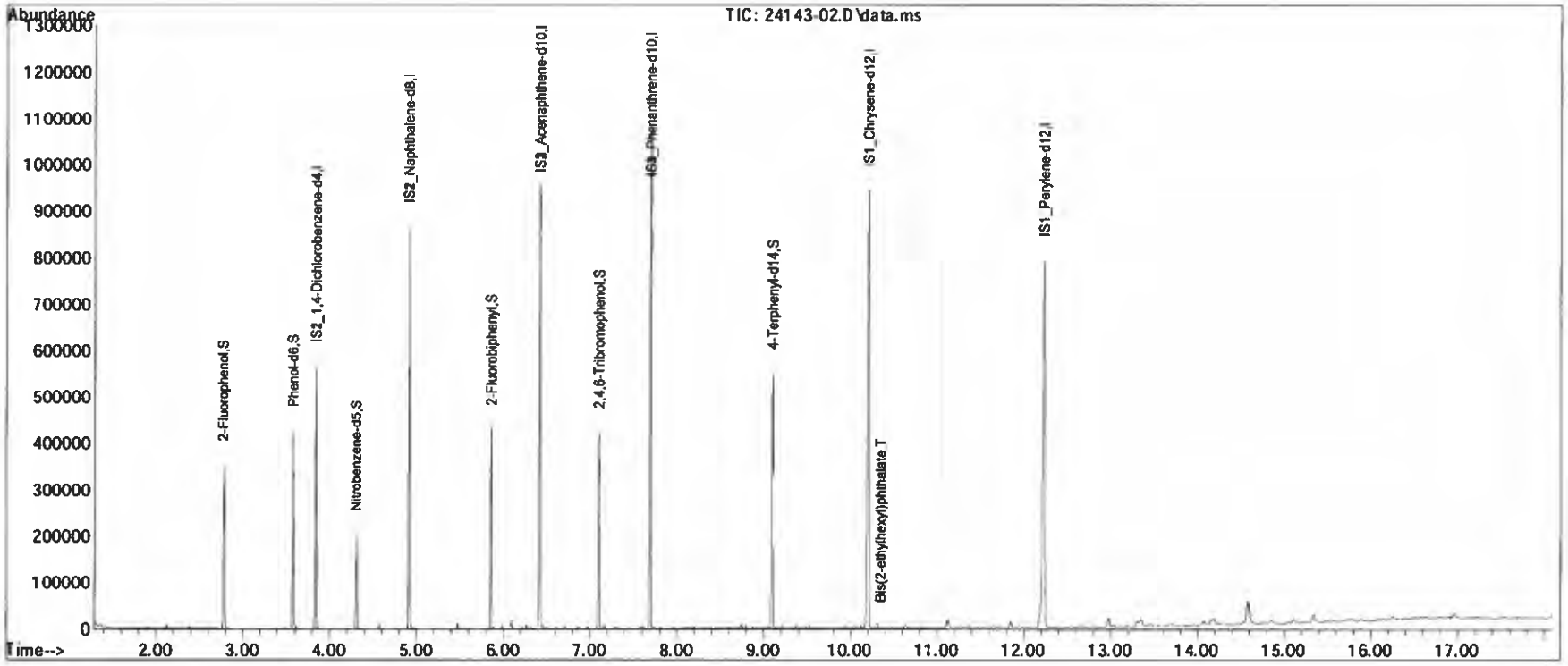


Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\190617\
Data File : 24143-02.D
Acq On : 17 Jun 2019 1:21 pm
Operator : juliet:kr
Sample : L1924143-02,32,,tcl,im
Misc : wg1249403,wg1248889,ical15862
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 19 09:18:48 2019
Quant Method : I:\8270\Juliet\190617\FS190610juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 13:44:27 2019
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA617.D•

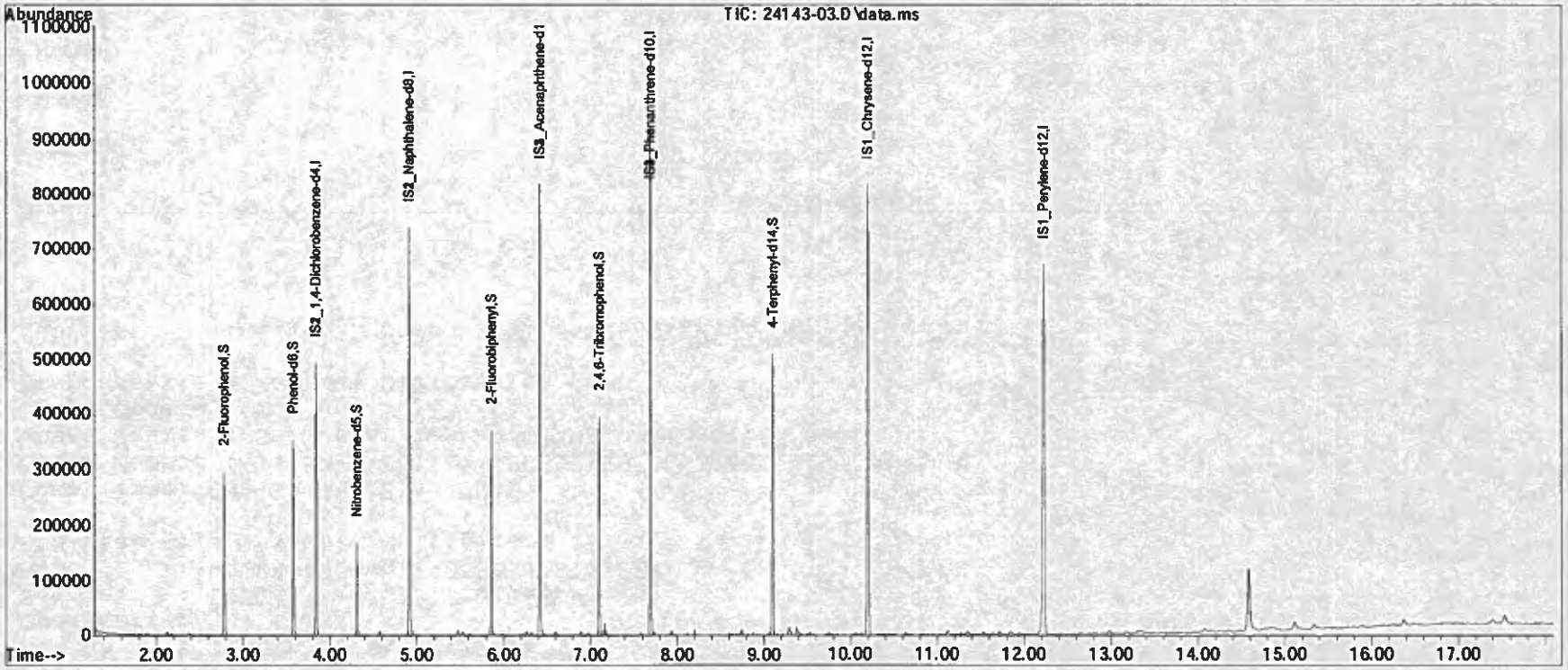


Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\190617\
Data File : 24143-03.D
Acq On : 17 Jun 2019 1:48 pm
Operator : juliet:kr
Sample : L1924143-03,32,,tcl,im
Misc : wg1249403,wg1248889,ical15862
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 19 09:19:52 2019
Quant Method : I:\8270\Juliet\190617\FS190610juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 14:11:38 2019
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA617.D•

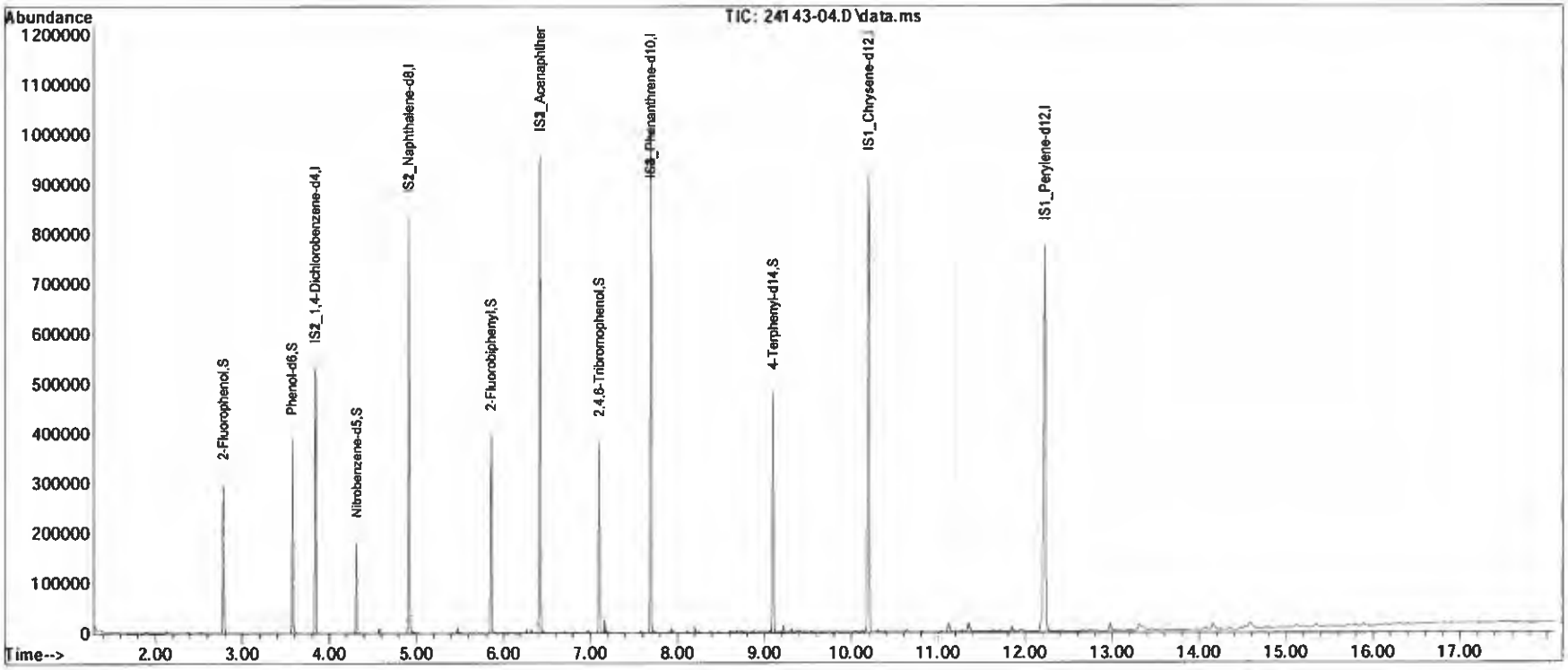


Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\190617\
Data File : 24143-04.D
Acq On : 17 Jun 2019 2:16 pm
Operator : juliet:kr
Sample : L1924143-04,32,,tcl,im
Misc : wg1249403,wg1248889,ical15862
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 19 09:20:34 2019
Quant Method : I:\8270\Juliet\190617\FS190610juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 14:39:09 2019
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA617.D•

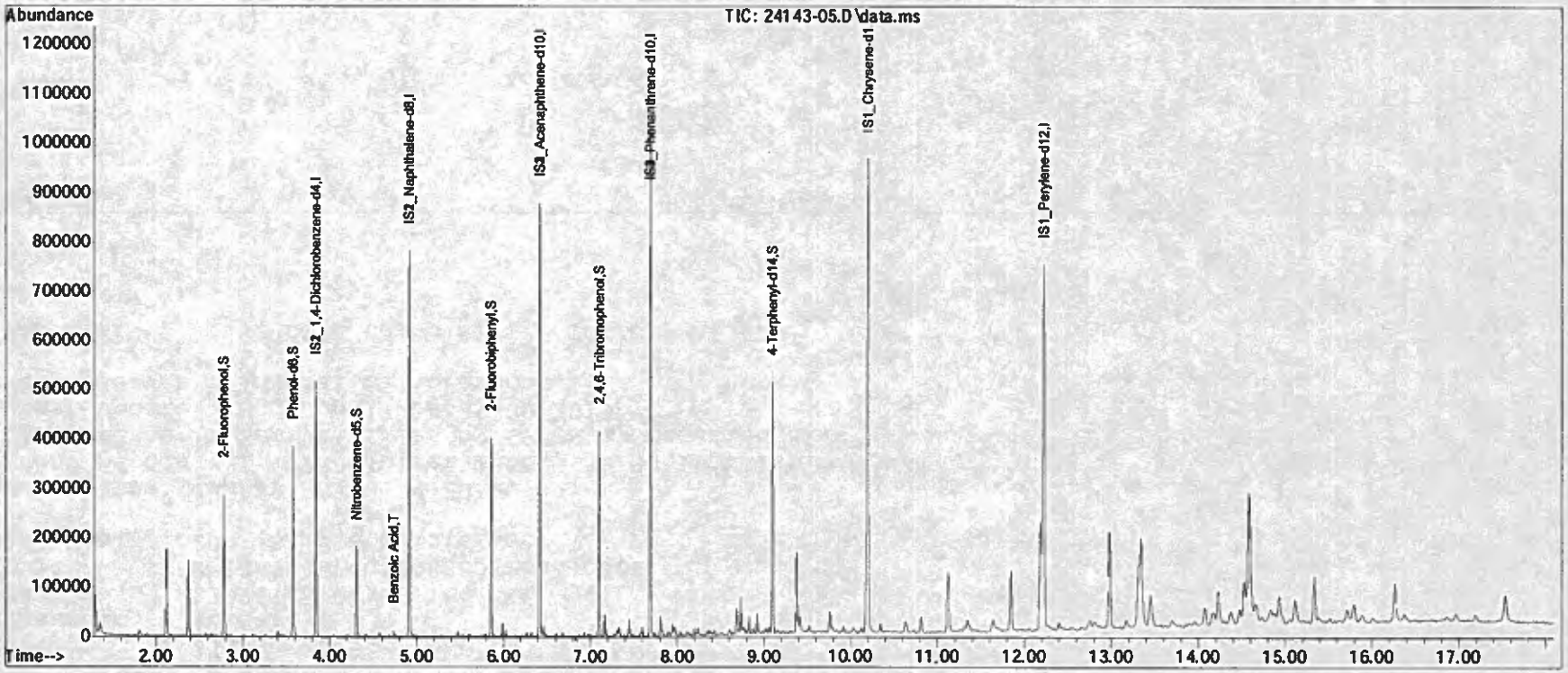


Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\190617\
Data File : 24143-05.D
Acq On : 17 Jun 2019 4:31 pm
Operator : juliet:kr
Sample : L1924143-05,32,,tcl,im
Misc : wg1249403,wg1248889,ical15862
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 19 09:23:17 2019
Quant Method : I:\8270\Juliet\190617\FS190610juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 16:54:36 2019
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA617.D•

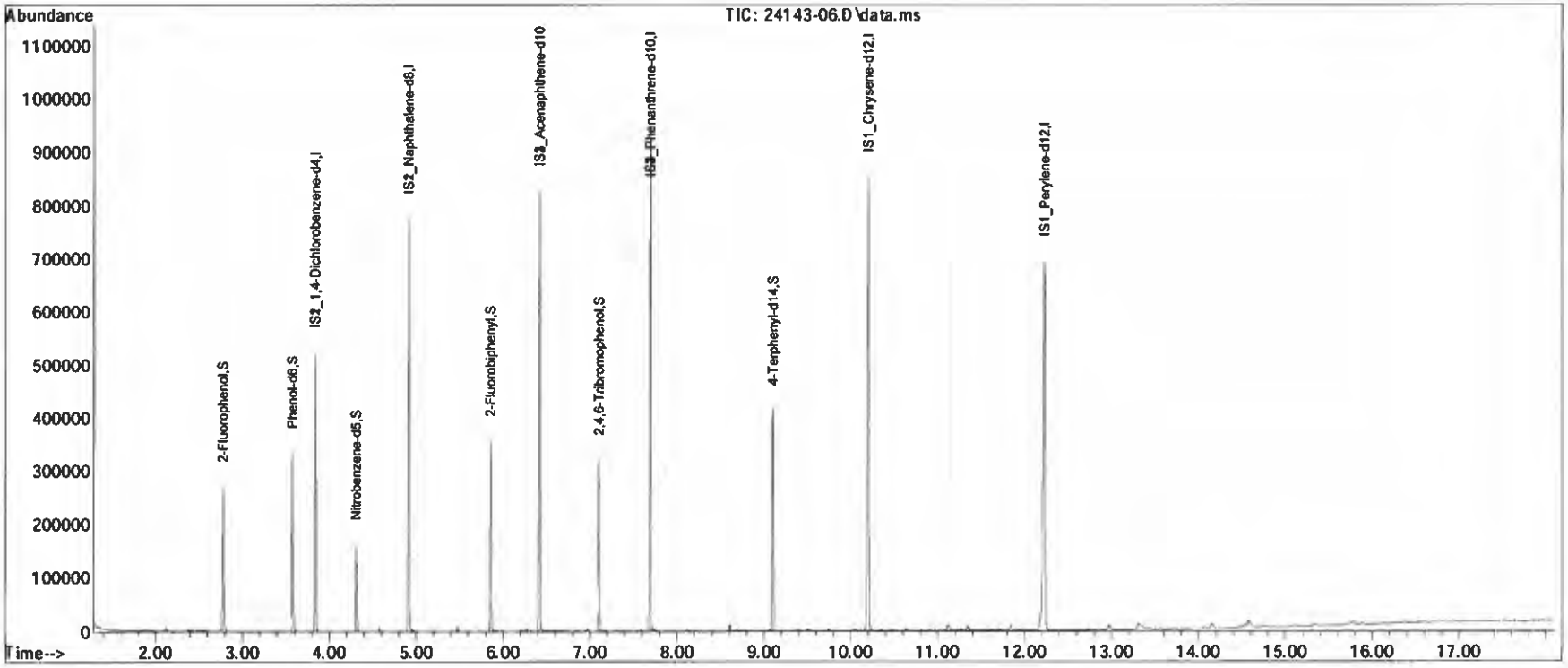


Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\190617\
Data File : 24143-06.D
Acq On : 17 Jun 2019 2:43 pm
Operator : juliet:kr
Sample : L1924143-06,32,,tcl,im
Misc : wg1249403,wg1248889,ical15862
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 19 09:28:15 2019
Quant Method : I:\8270\Juliet\190617\FS190610juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 15:05:57 2019
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA617.D•

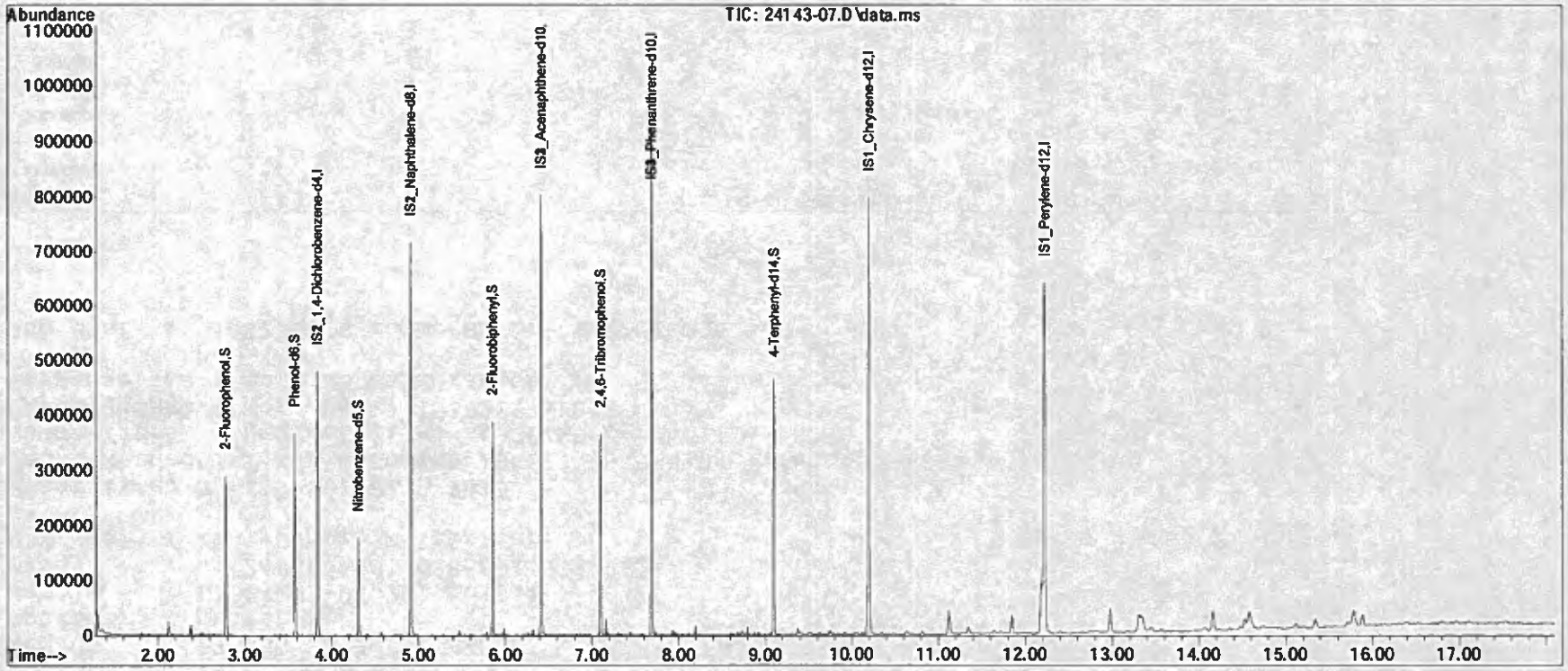


Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\190617\
Data File : 24143-07.D
Acq On : 17 Jun 2019 3:37 pm
Operator : juliet:kr
Sample : L1924143-07,32,,tcl,im
Misc : wg1249403,wg1248889,ical15862
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 19 09:28:44 2019
Quant Method : I:\8270\Juliet\190617\FS190610juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 16:00:27 2019
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA617.D•

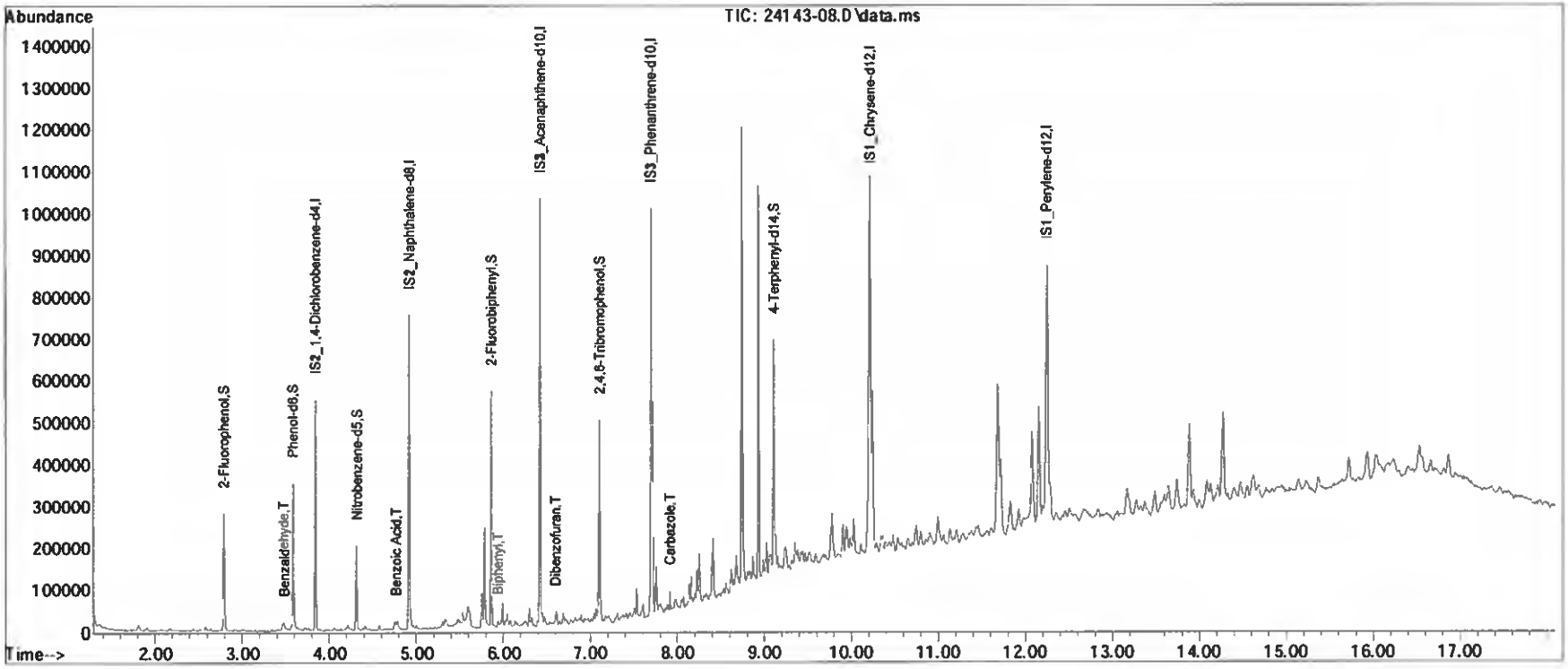


Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\190617\
Data File : 24143-08.D
Acq On : 17 Jun 2019 7:13 pm
Operator : juliet:kr
Sample : L1924143-08,32,,tcl,im
Misc : wg1249403,wg1248889,ical15862
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 19 09:31:28 2019
Quant Method : I:\8270\Juliet\190617\FS190610juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 19:36:58 2019
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA617.D•

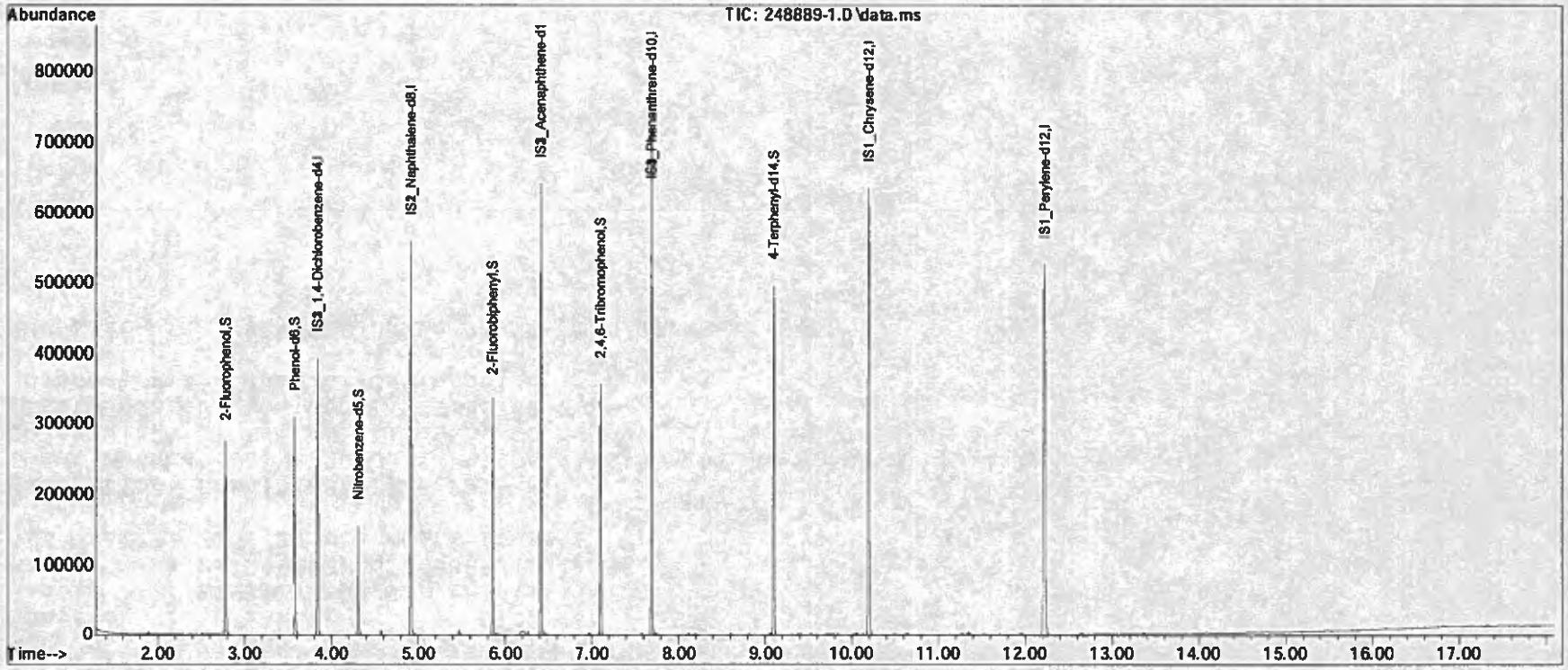


Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\190617\
Data File : 248889-1.D
Acq On : 17 Jun 2019 10:12 am
Operator : juliet:jg
Sample : wg1248889-1,32,,tcl,im
Misc : wg1249403,wg1248889,ical15862
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 18 17:02:50 2019
Quant Method : I:\8270\Juliet\190617\FS190610juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 19:36:58 2019
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MA7\AP90617.D•



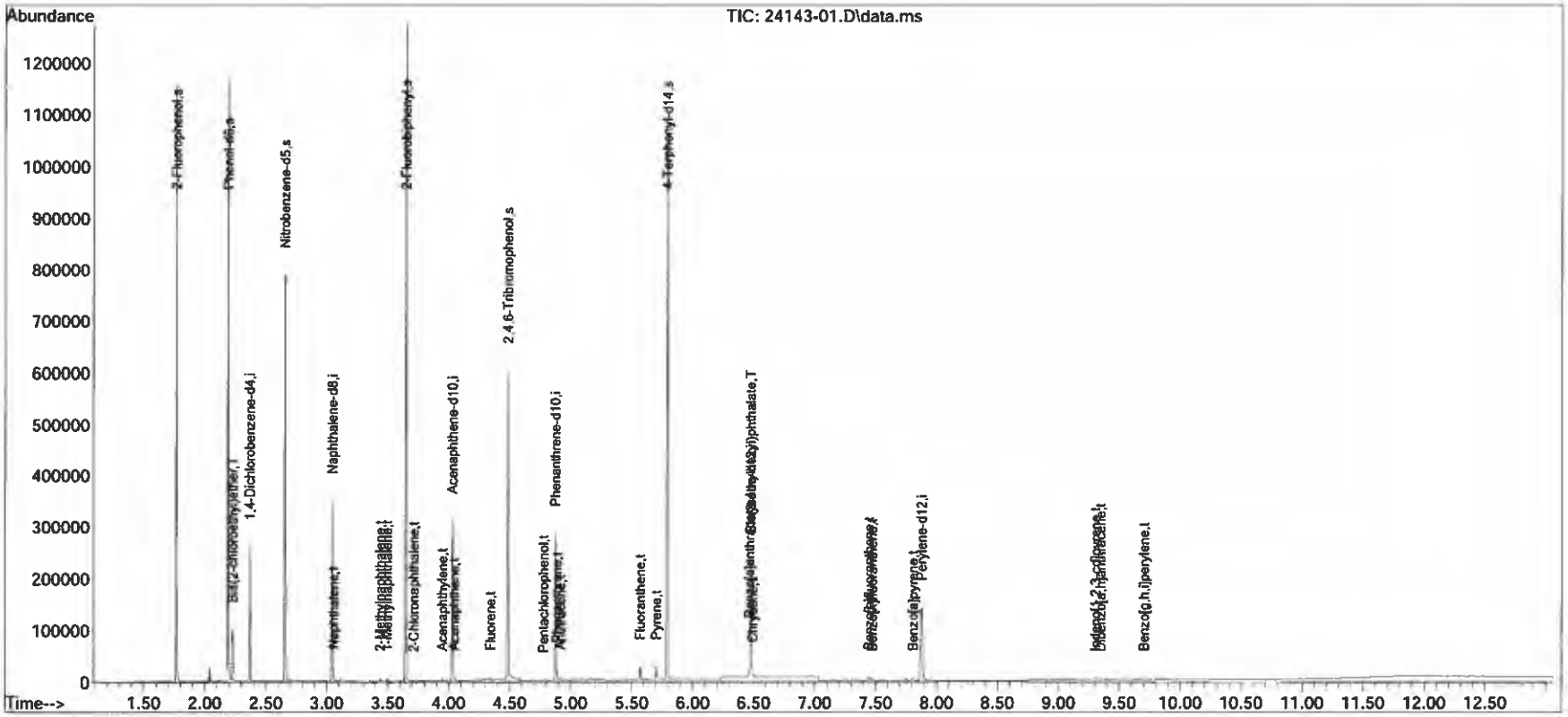
FS190610juliet.m Tue Jun 18 17:06:07 2019 Page: 5

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\190618ST\
Data File : 24143-01.D
Acq On : 18 Jun 2019 02:36 pm
Operator : SV118:cb
Sample : 11924143-01,32,,tcl,jjw
Misc : wg1249818,wg1248890,ical15820
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 19 10:59:41 2019
Quant Method : I:\8270SIM\SV118\190618ST\simtech_190521_sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 10:39:37 2019
Response via : Initial Calibration

Sub List : Default - All compounds listedccv0618a.D•

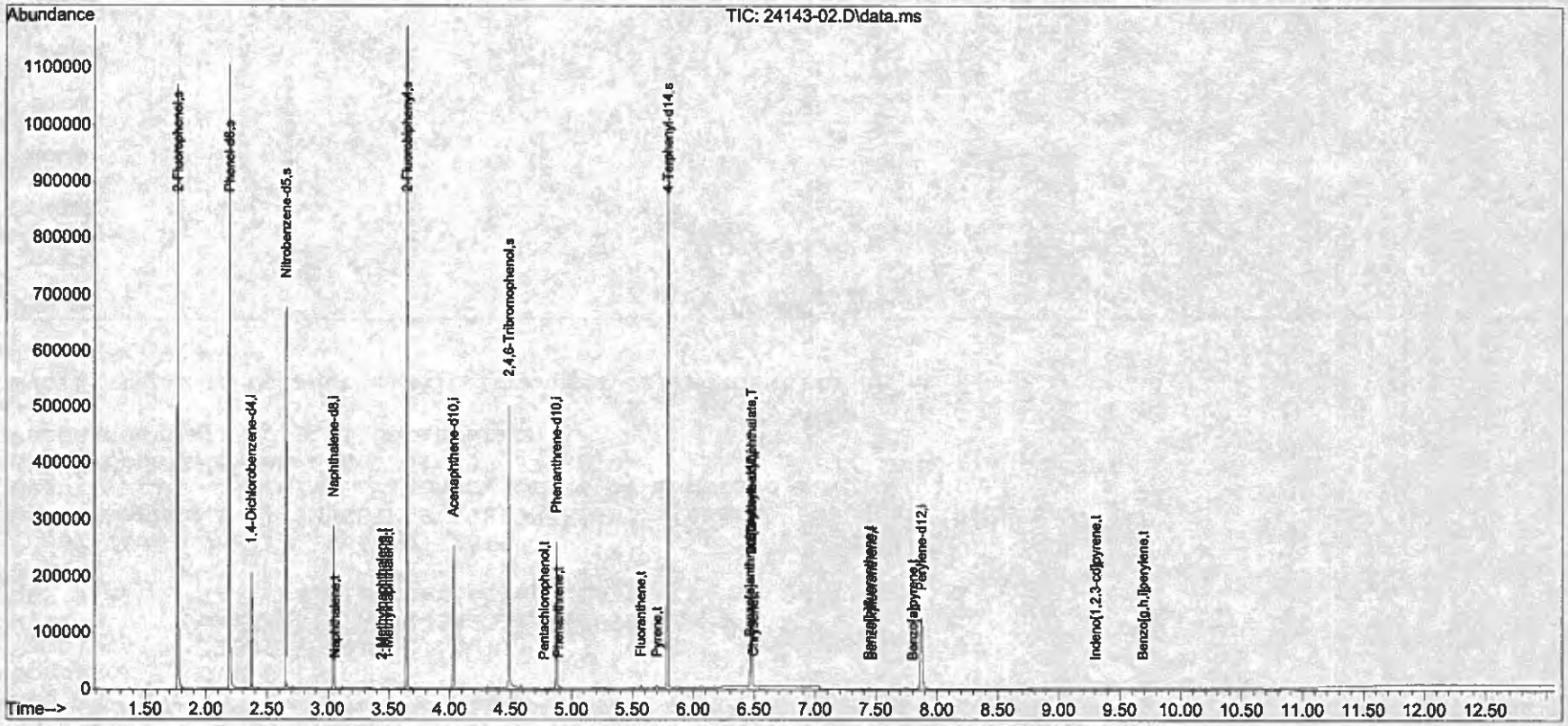


Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\190618ST\
Data File : 24143-02.D
Acq On : 18 Jun 2019 02:53 pm
Operator : SV118:cb
Sample : 11924143-02,32,,tcl,jjw
Misc : wg1249818,wg1248890,ical15820
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 19 11:00:55 2019
Quant Method : I:\8270SIM\SV118\190618ST\simtech_190521_sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 10:39:37 2019
Response via : Initial Calibration

Sub List : Default - All compounds listedccv0618a.D•

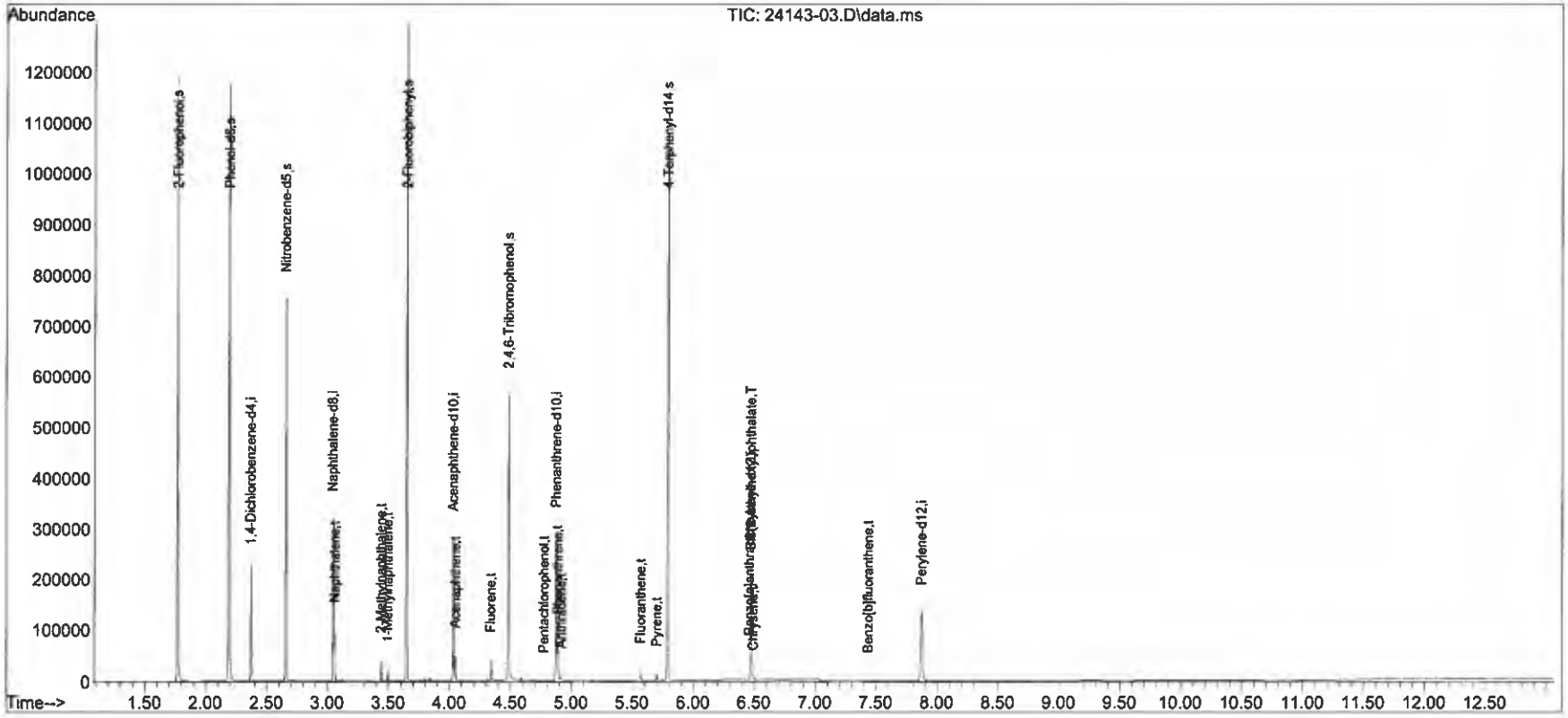


Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\190618ST\
Data File : 24143-03.D
Acq On : 18 Jun 2019 03:10 pm
Operator : SV118:cb
Sample : 11924143-03,32,,tcl,jjw
Misc : wg1249818,wg1248890,ical15820
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 19 11:02:01 2019
Quant Method : I:\8270SIM\SV118\190618ST\simtech_190521_sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 10:39:37 2019
Response via : Initial Calibration

Sub List : Default - All compounds listedccv0618a.D•

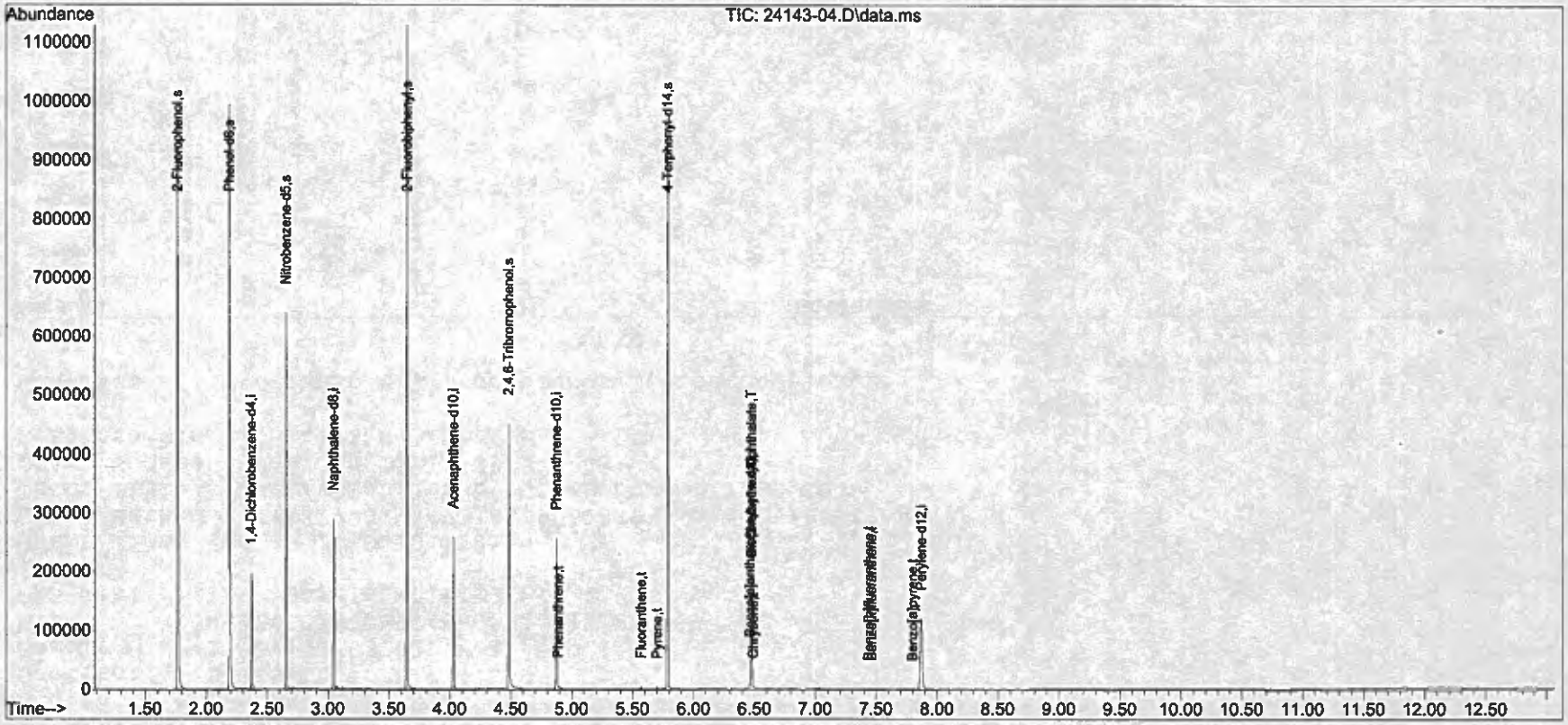


Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\190618ST\
Data File : 24143-04.D
Acq On : 18 Jun 2019 03:44 pm
Operator : SV118:cb
Sample : 11924143-04,32,,tcl,jjw
Misc : wg1249818,wg1248890,ical15820
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 19 11:03:07 2019
Quant Method : I:\8270SIM\SV118\190618ST\simtech_190521_sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 10:39:37 2019
Response via : Initial Calibration

Sub List : Default - All compounds listedccv0618a.D•



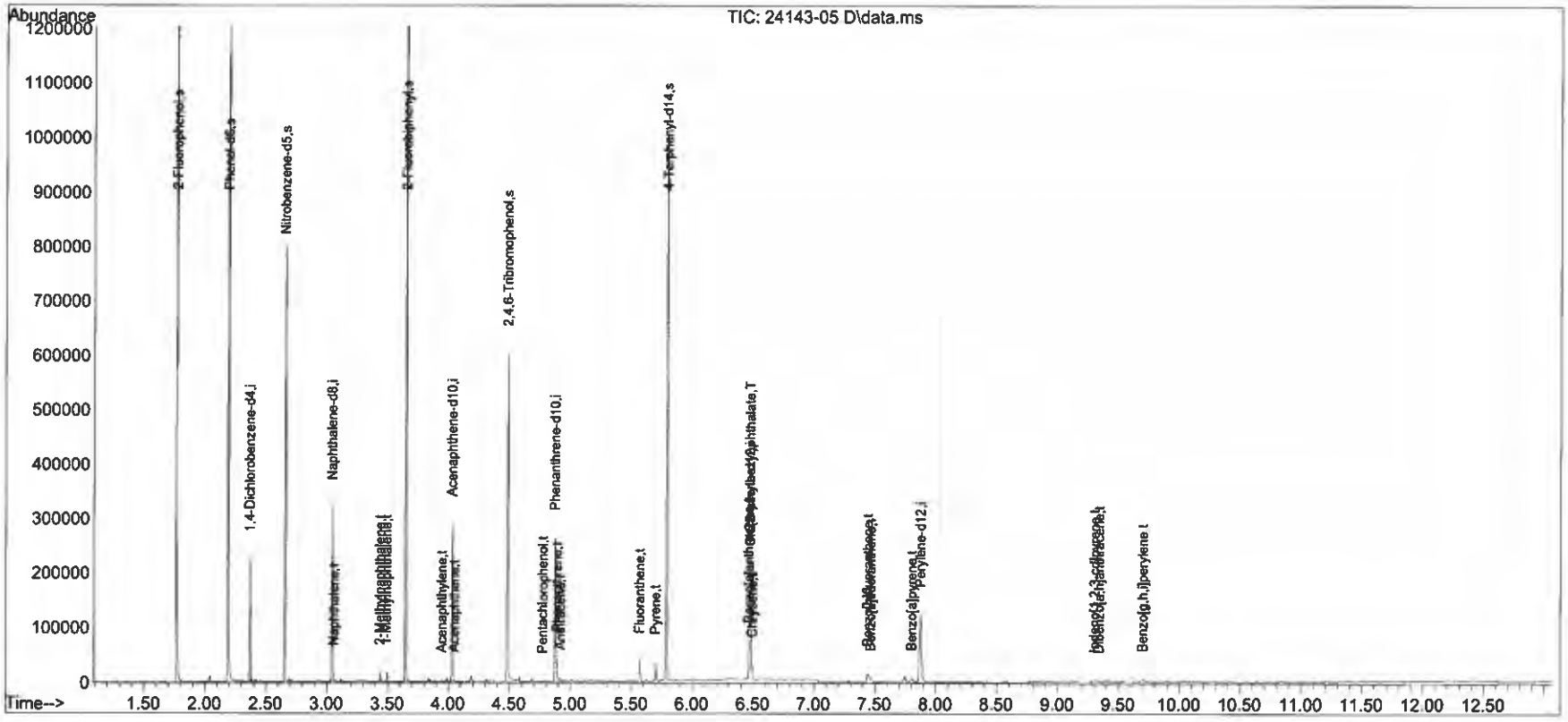
simtech_190521_sv118.M Wed Jun 19 11:22:20 2019 Page: 3

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\190618ST\
Data File : 24143-05.D
Acq On : 18 Jun 2019 04:00 pm
Operator : SV118:cb
Sample : 11924143-05,32,,tcl,jjw
Misc : wg1249818,wg1248890,ical15820
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 19 11:04:43 2019
Quant Method : I:\8270SIM\SV118\190618ST\simtech_190521_sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 10:39:37 2019
Response via : Initial Calibration

Sub List : Default - All compounds listedccv0618a.D•

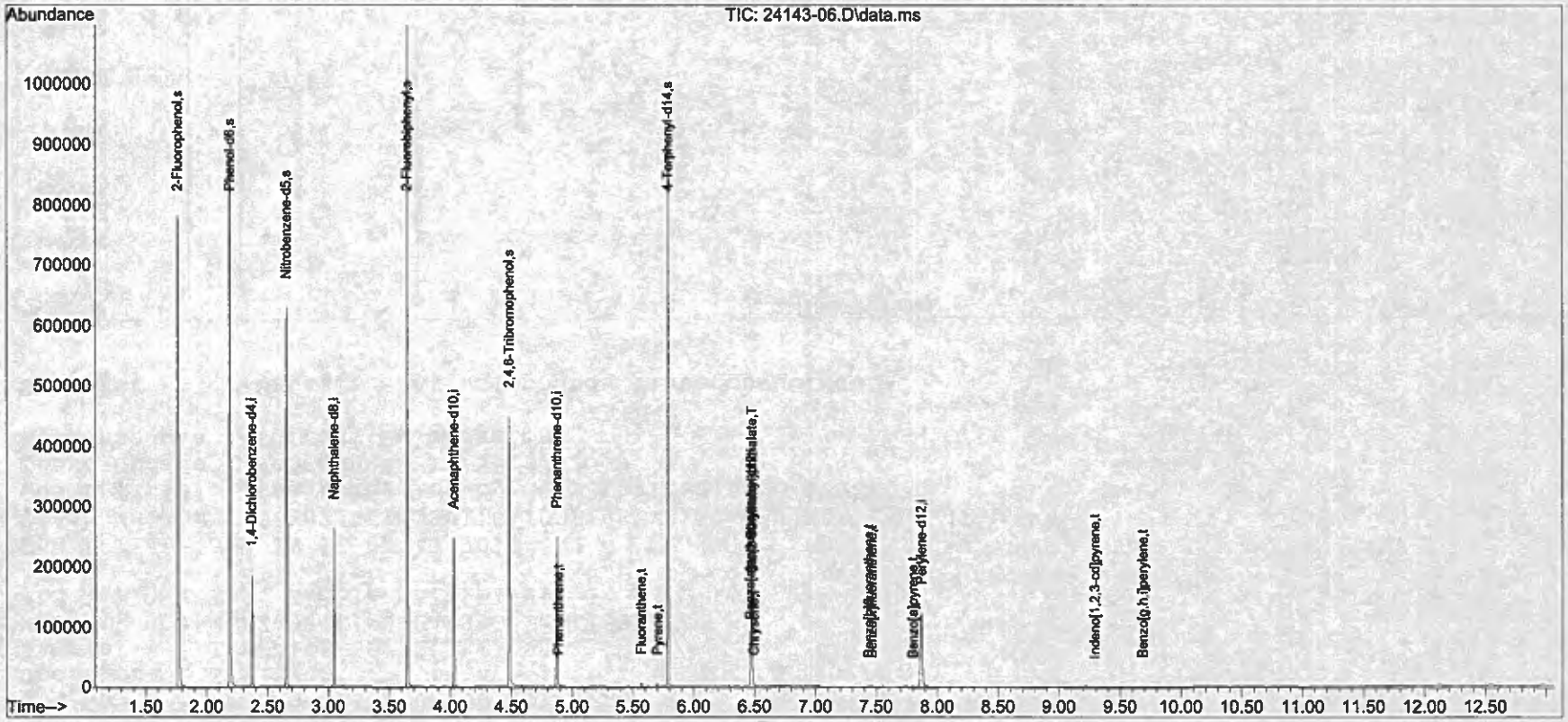


Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\190618ST\
Data File : 24143-06.D
Acq On : 18 Jun 2019 04:17 pm
Operator : SV118:cb
Sample : l1924143-06,32,,tcl,jjw
Misc : wg1249818,wg1248890,ical15820
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 19 11:05:36 2019
Quant Method : I:\8270SIM\SV118\190618ST\simtech_190521_sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 10:39:37 2019
Response via : Initial Calibration

Sub List : Default - All compounds listedccv0618a.D•

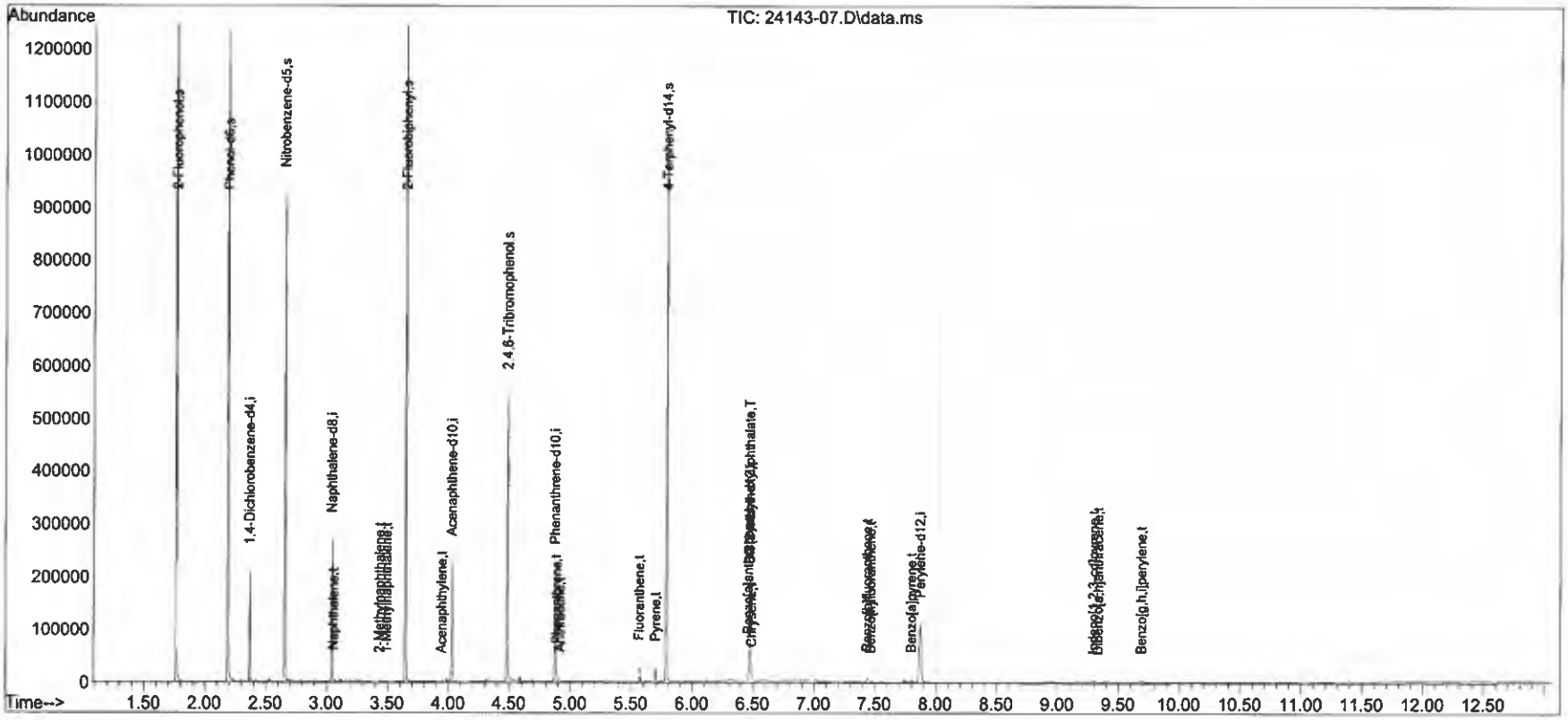


Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\190618ST\
Data File : 24143-07.D
Acq On : 18 Jun 2019 04:34 pm
Operator : SV118:cb
Sample : 11924143-07,32,,tcl,jjw
Misc : wg1249818,wg1248890,ical15820
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 19 11:06:36 2019
Quant Method : I:\8270SIM\SV118\190618ST\simtech_190521_sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 10:39:37 2019
Response via : Initial Calibration

Sub List : Default - All compounds listedccv0618a.D•

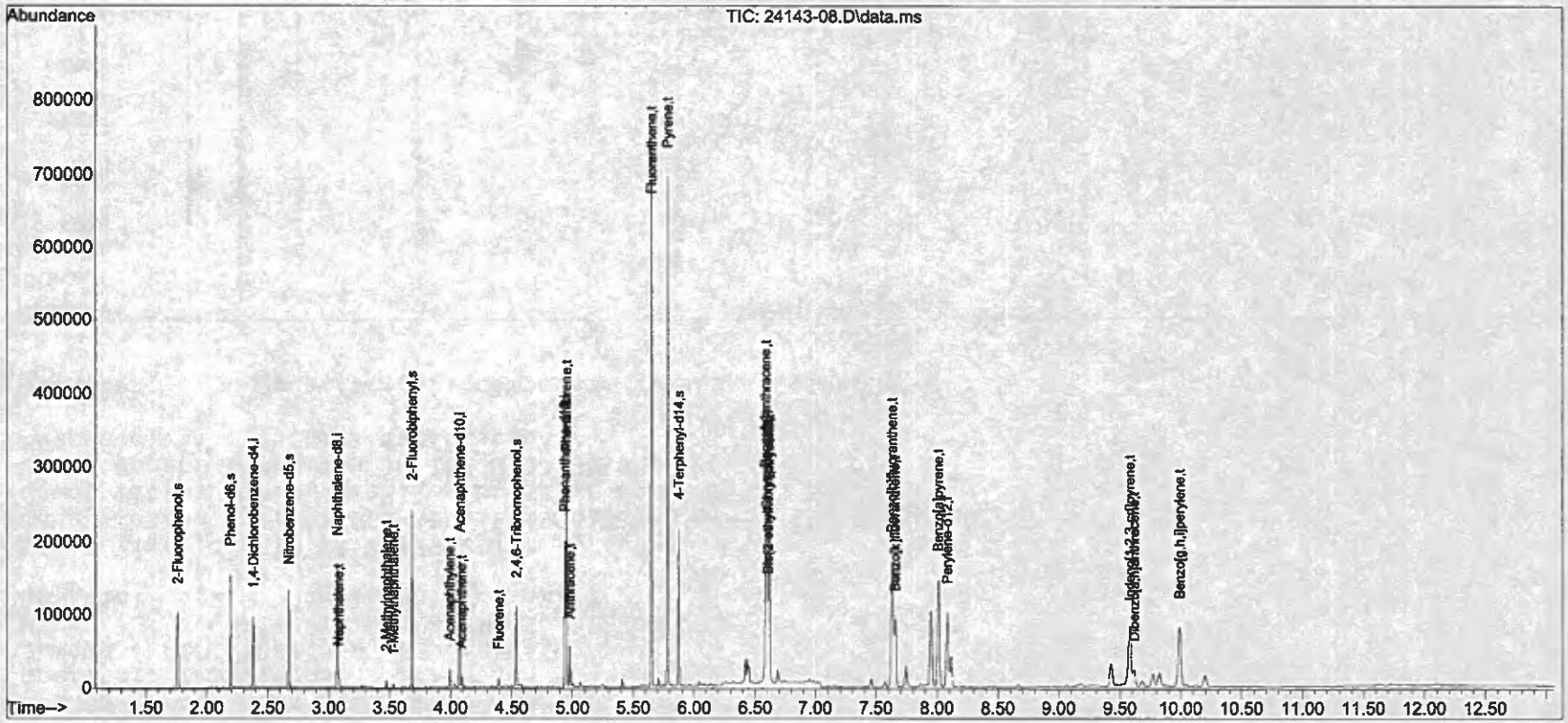


Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\190619aST\
Data File : 24143-08.D
Acq On : 19 Jun 2019 03:23 pm
Operator : SV118:dv
Sample : 11924143-08d,32,5,tcl,jjw
Misc : wg1250456,wg1248890,ical15820
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 19 16:00:05 2019
Quant Method : I:\8270SIM\SV118\190619aST\simtech_190521_sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 12 08:39:13 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed\ccv0619b.D•

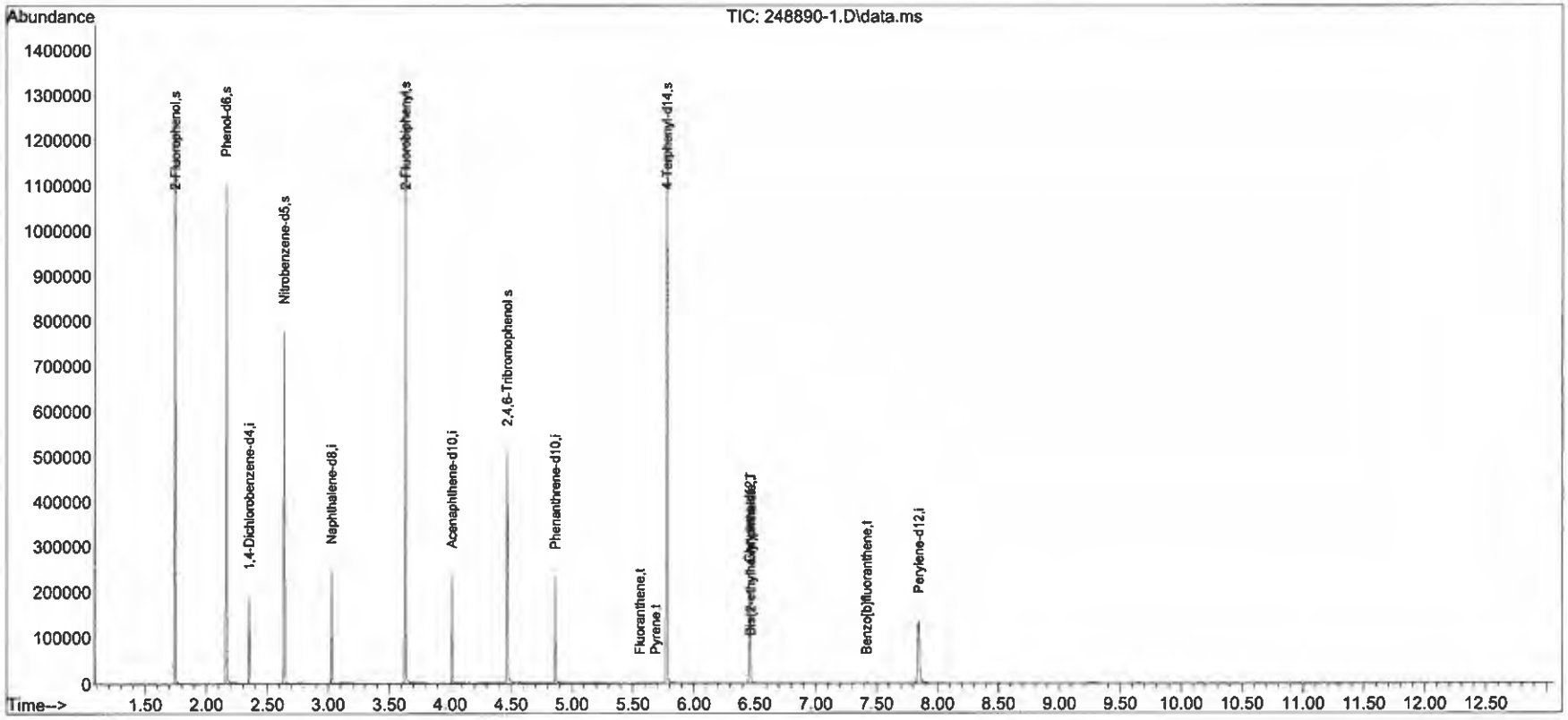


Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\190618ST\
Data File : 248890-1.D
Acq On : 18 Jun 2019 09:49 am
Operator : SV118:cb
Sample : wg1248890-1,32,,tcl,cb
Misc : wg1249818,wg1248890,ical15820
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 19 11:21:11 2019
Quant Method : I:\8270SIM\SV118\190618ST\simtech_190521_sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 10:39:37 2019
Response via : Initial Calibration

Sub List : Default - All compounds listedccv0618a.D•

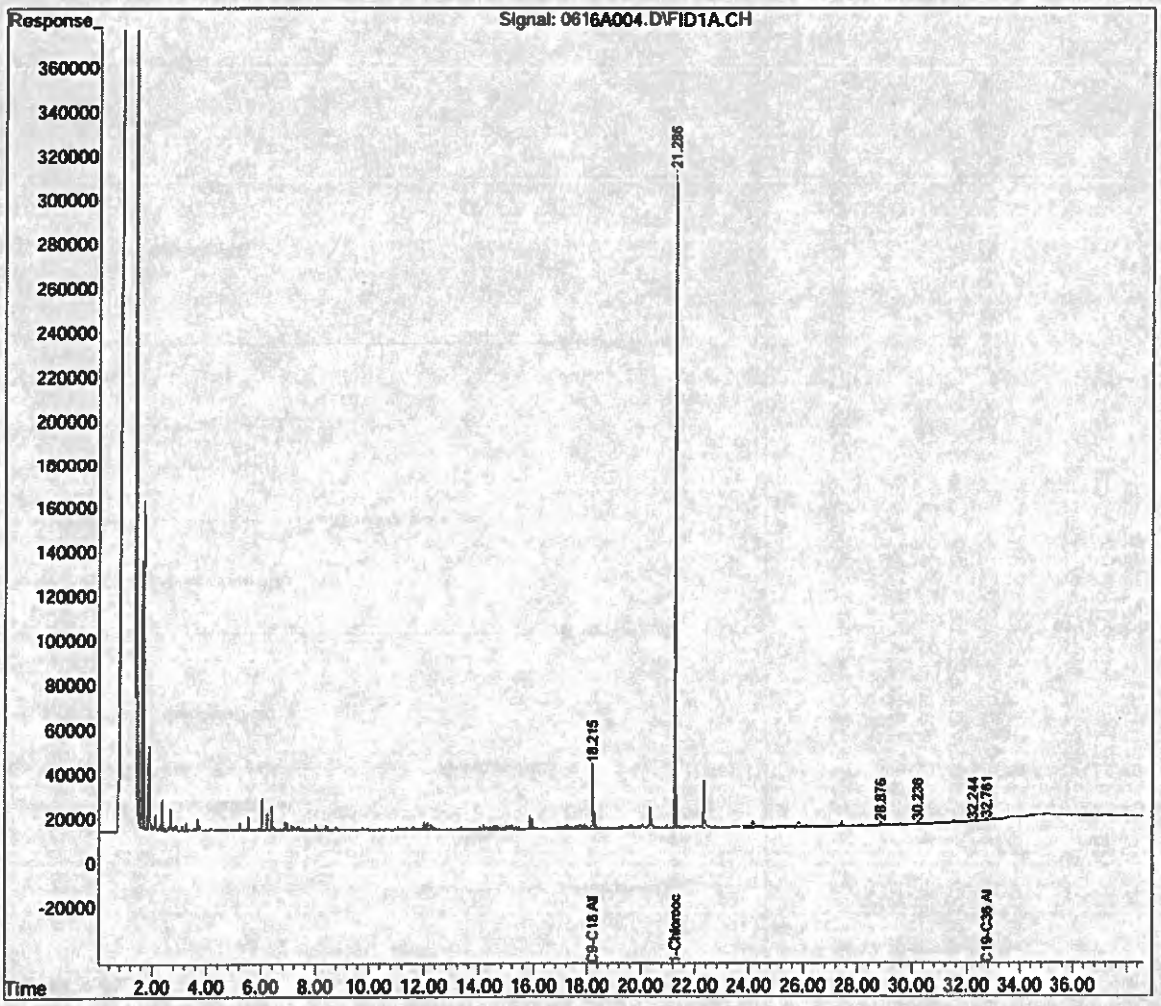


```
Sub List     : Default - All compounds listed Reviewed)

Data Path : I:\Petrol1\190616\
Data File : 0616A004.D
Signal(s) : FID1A.CH
Acq On    : 16 Jun 2019    4:51 pm
Operator  : Petrol1a:sr
Sample    : wg1248881-1,42,,
Misc      : wg1249297,wg1248881,ICAL13532
ALS Vial  : 4   Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 17 14:36:13 2019
Quant Method : I:\Petrol1\190616\MAALI170330.M
Quant Title  : MA EPH Aliphatic
QLast Update : Thu Jun 06 12:14:30 2019
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.  :
Signal Phase :
Signal Info  :
```

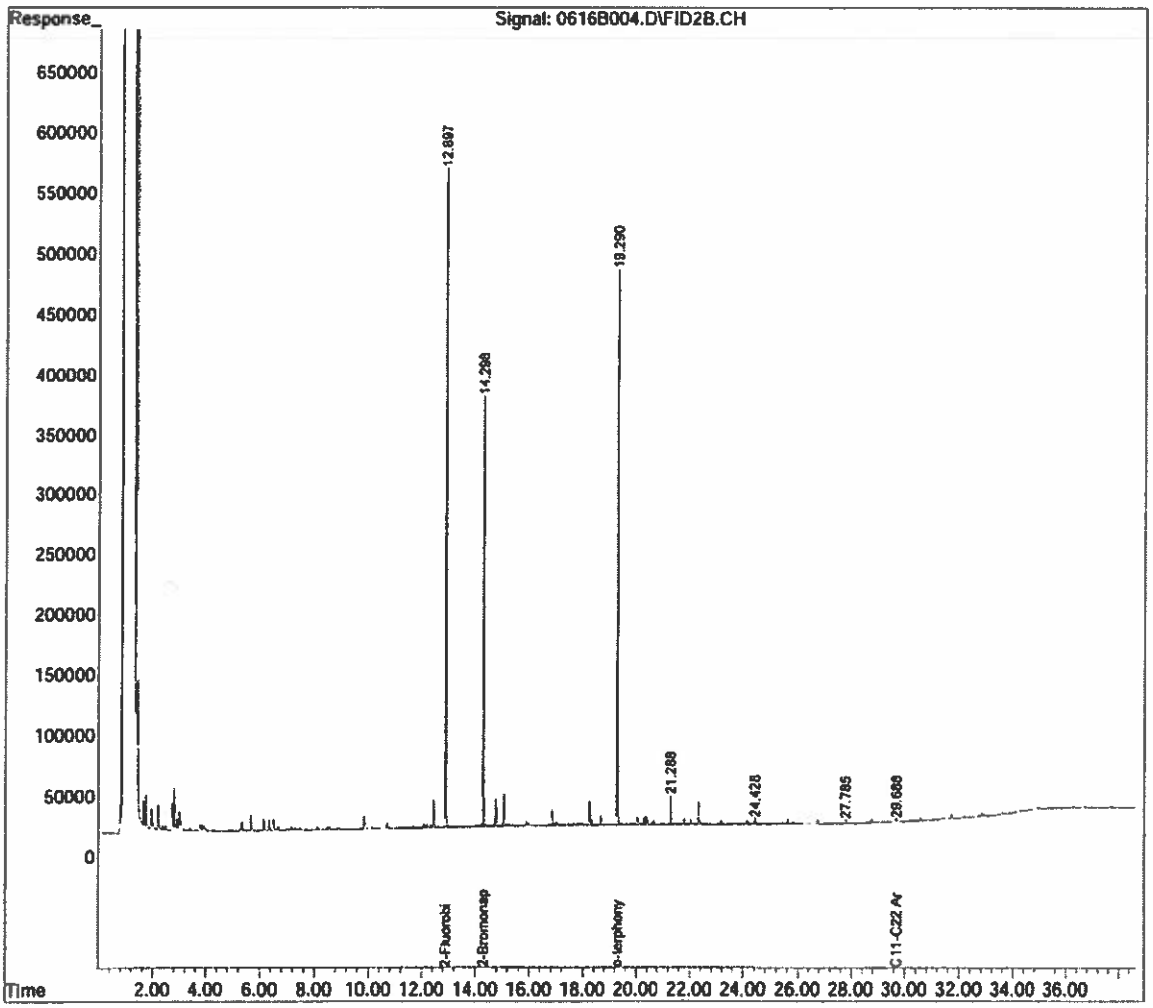


```
Sub List     : Default - All compounds listed Reviewed)

Data Path : I:\Petro11\190616.sec\
Data File : 0616B004.D
Signal(s) : FID2B.CH
Acq On    : 16 Jun 2019    4:51 pm
Operator  : Petro11b:sr
Sample    : wg1248881-1,42,,
Misc      : wg1249297,wg1248881,ICAL13533
ALS Vial  : 54   Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 17 14:53:55 2019
Quant Method : I:\Petro11\190616.sec\MAARO170330.M
Quant Title  : MA EPH Aromatic
QLast Update : Thu Jun 06 12:17:03 2019
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.  :
Signal Phase :
Signal Info  :
```

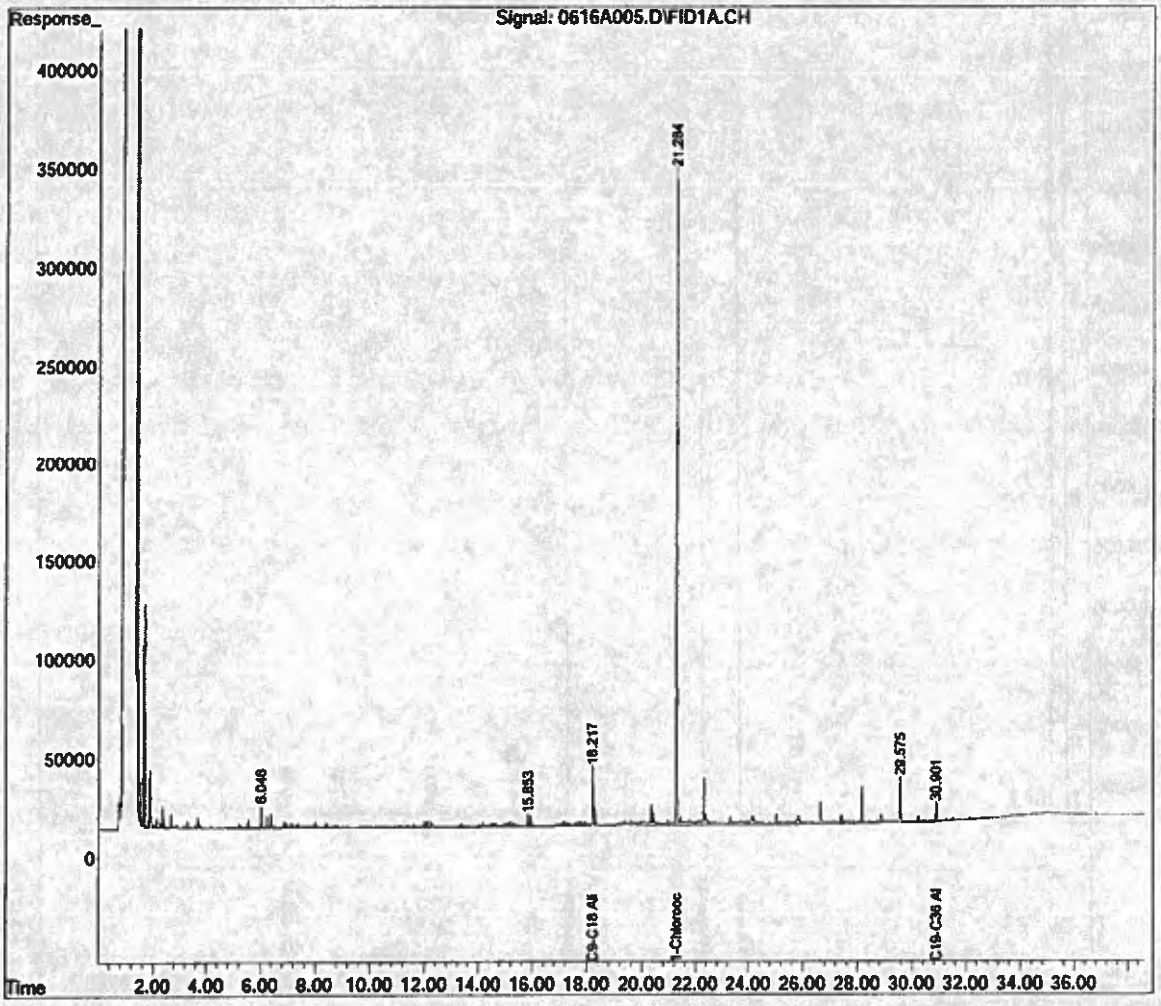


```
Sub List     : Default - All compounds listed Reviewed)

Data Path : I:\Petro11\190616\
Data File : 0616A005.D
Signal(s) : FID1A.CH
Acq On    : 16 Jun 2019    5:36 pm
Operator  : Petro11a:sr
Sample    : 11924143-01,42,,
Misc      : wg1249297,wg1248881,ICAL13532
ALS Vial  : 5   Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 17 14:36:57 2019
Quant Method : I:\Petro11\190616\MAALI170330.M
Quant Title  : MA EPH Aliphatic
QLast Update : Thu Jun 06 12:14:30 2019
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.  :
Signal Phase :
Signal Info  :
```

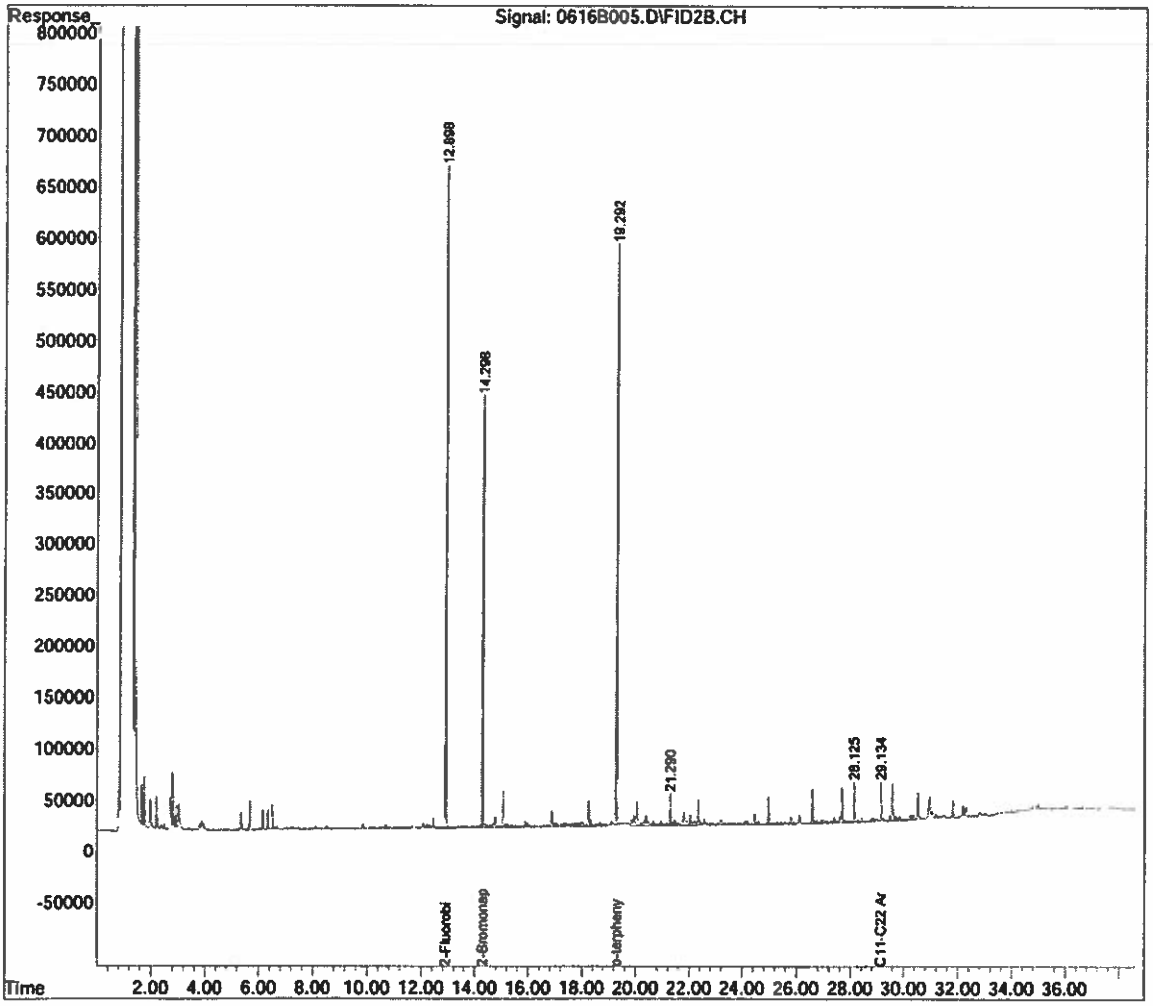


```
Sub List     : Default - All compounds listed Reviewed)

Data Path : I:\Petro11\190616.sec\
Data File : 0616B005.D
Signal(s) : FID2B.CH
Acq On    : 16 Jun 2019    5:36 pm
Operator  : Petro11b:sr
Sample    : 11924143-01,42,,
Misc      : wg1249297,wg1248881,ICAL13533
ALS Vial  : 55   Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 17 14:54:16 2019
Quant Method : I:\Petro11\190616.sec\MAARO170330.M
Quant Title  : MA EPH Aromatic
QLast Update : Thu Jun 06 12:17:03 2019
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.  :
Signal Phase :
Signal Info  :
```

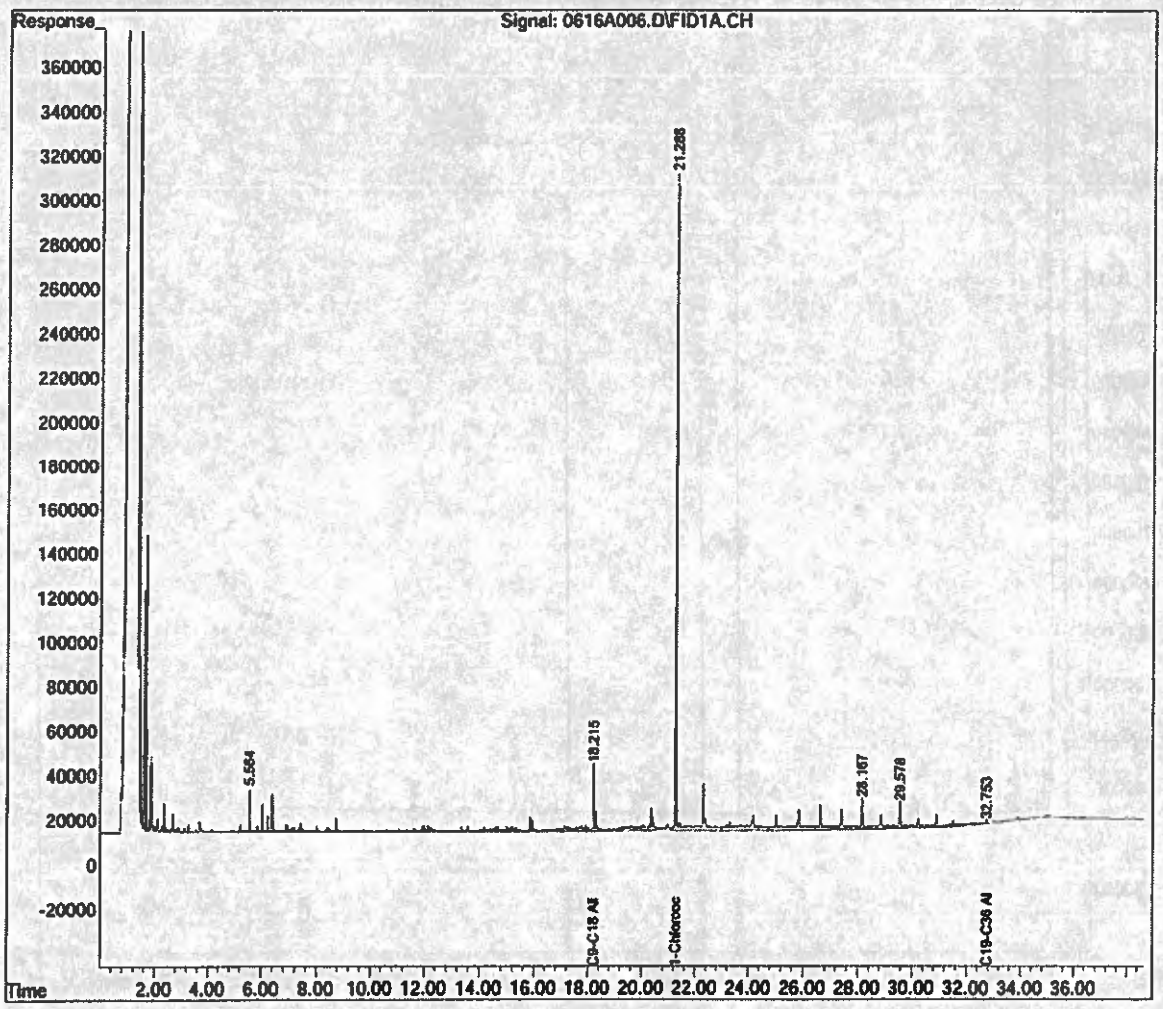


```
Sub List      : Default - All compounds listed Reviewed)

Data Path : I:\Petro11\190616\
Data File : 0616A006.D
Signal(s) : FID1A.CH
Acq On    : 16 Jun 2019    6:22 pm
Operator  : Petro11a:sr
Sample    : 11924143-02,42,,
Misc      : wg1249297,wg1248881,ICAL13532
ALS Vial  : 6   Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 17 14:37:23 2019
Quant Method : I:\Petro11\190616\MAALI170330.M
Quant Title  : MA EPH Aliphatic
QLast Update : Thu Jun 06 12:14:30 2019
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.  :
Signal Phase :
Signal Info  :
```

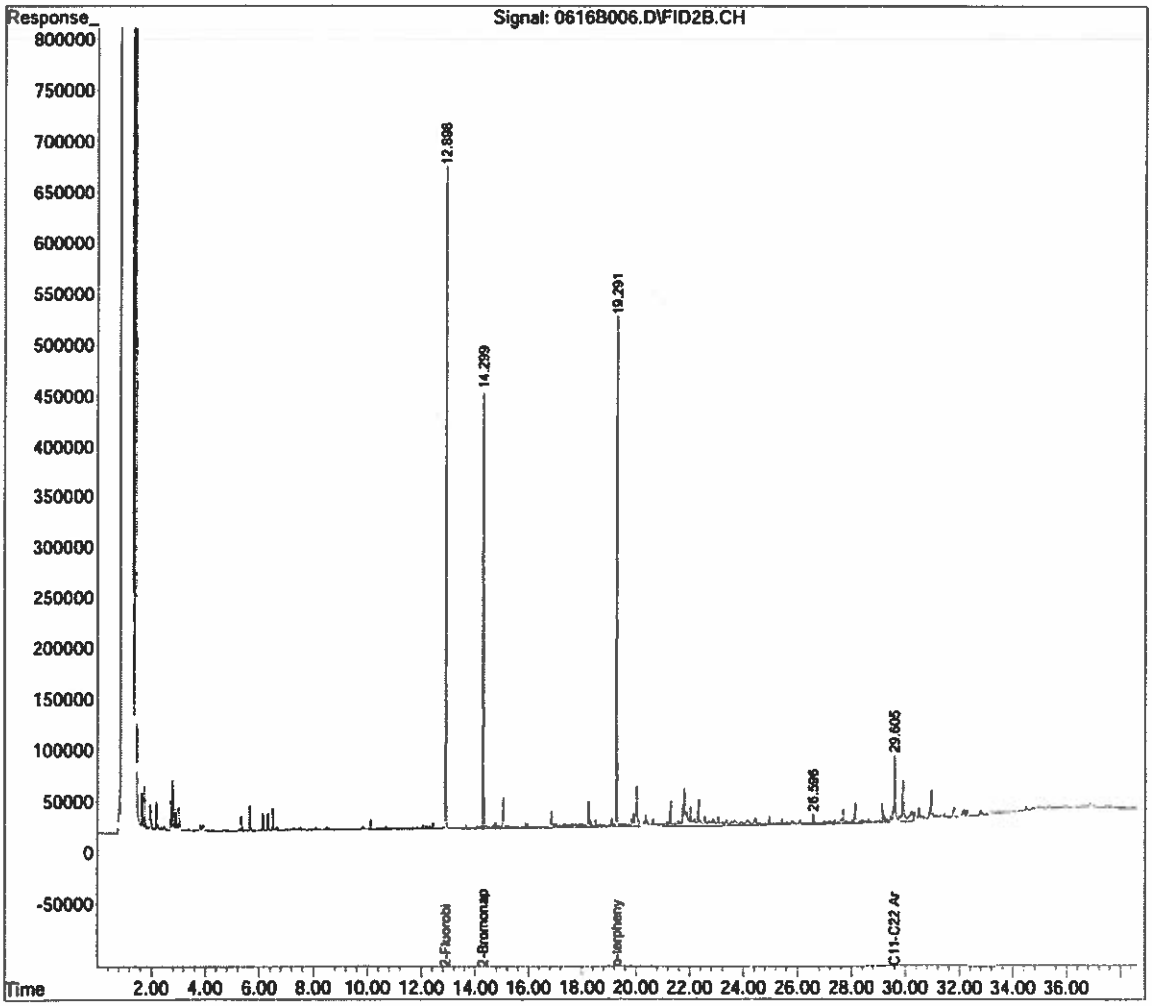


```
Sub List     : Default - All compounds listed Reviewed)

Data Path : I:\Petro11\190616.sec\
Data File : 0616B006.D
Signal(s) : FID2B.CH
Acq On    : 16 Jun 2019    6:22 pm
Operator  : Petro11b:sr
Sample    : l1924143-02,42,,
Misc      : wg1249297,wg1248881,ICAL13533
ALS Vial  : 56   Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 17 14:54:41 2019
Quant Method : I:\Petro11\190616.sec\MAARO170330.M
Quant Title  : MA EPH Aromatic
QLast Update : Thu Jun 06 12:17:03 2019
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.  :
Signal Phase :
Signal Info  :
```

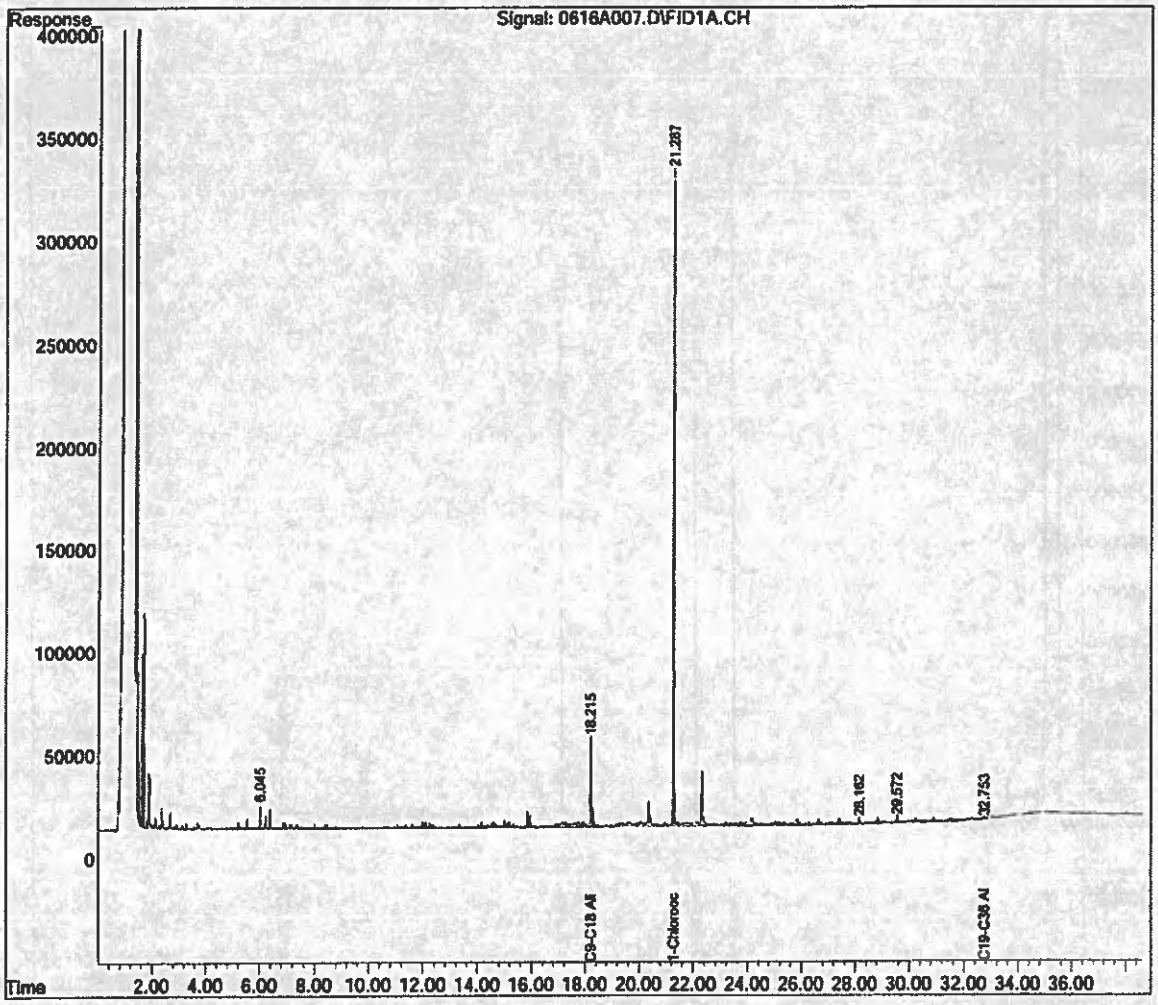


```
Sub List     : Default - All compounds listed Reviewed)

Data Path : I:\Petro11\190616\
Data File : 0616A007.D
Signal(s) : FID1A.CH
Acq On    : 16 Jun 2019    7:07 pm
Operator  : Petro11a:sr
Sample    : 11924143-03,42,,
Misc      : wg1249297,wg1248881,ICAL13532
ALS Vial  : 7   Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 17 14:37:47 2019
Quant Method : I:\Petro11\190616\MAALI170330.M
Quant Title  : MA EPH Aliphatic
QLast Update : Thu Jun 06 12:14:30 2019
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.  :
Signal Phase :
Signal Info  :
```

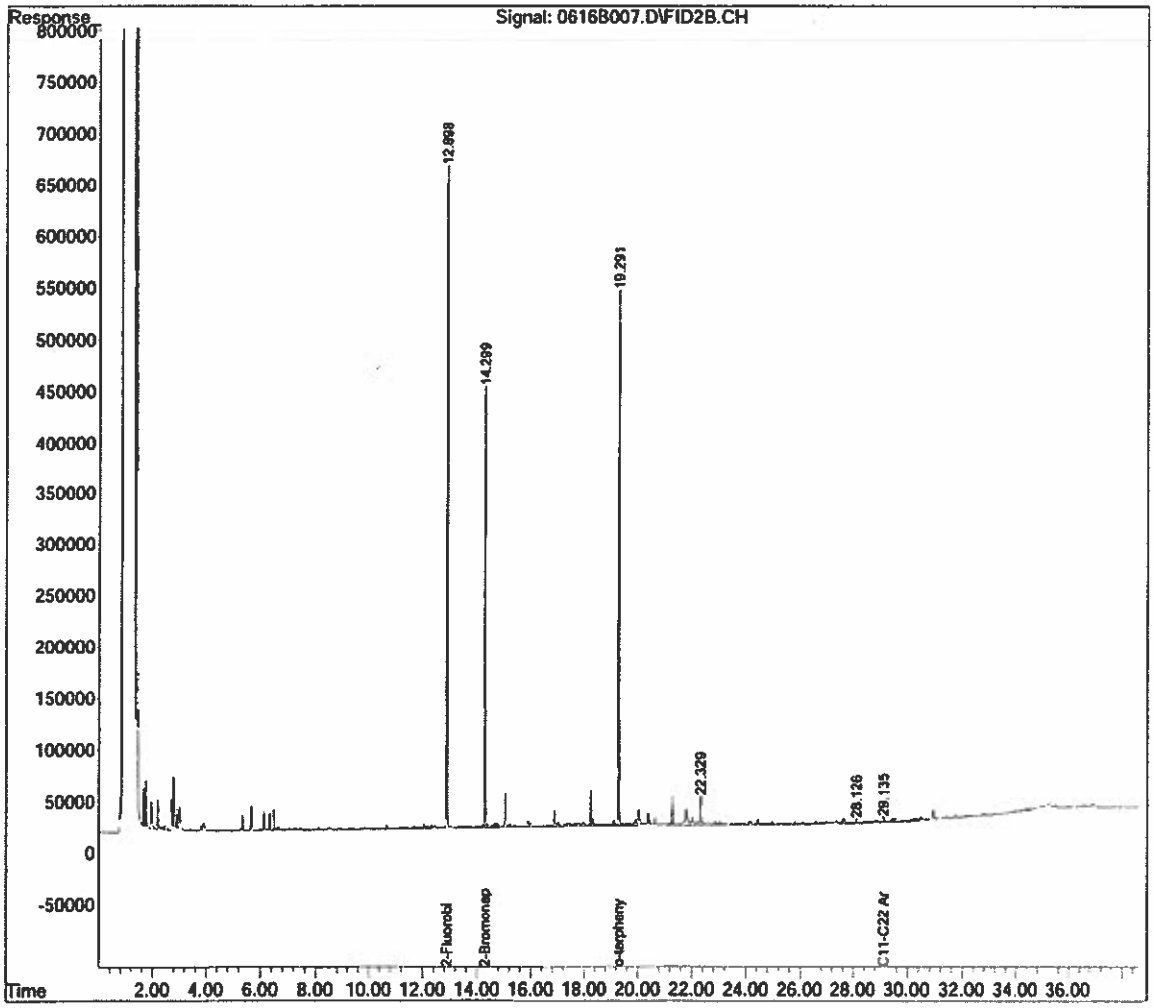


```
Sub List     : Default - All compounds listed Reviewed)

Data Path : I:\Petro11\190616.sec\
Data File : 0616B007.D
Signal(s) : FID2B.CH
Acq On    : 16 Jun 2019    7:07 pm
Operator  : Petro11b:sr
Sample    : l1924143-03,42,,
Misc      : wg1249297,wg1248881,ICAL13533
ALS Vial  : 57   Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 17 14:55:03 2019
Quant Method : I:\Petro11\190616.sec\MAARO170330.M
Quant Title  : MA EPH Aromatic
QLast Update : Thu Jun 06 12:17:03 2019
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.  :
Signal Phase :
Signal Info  :
```

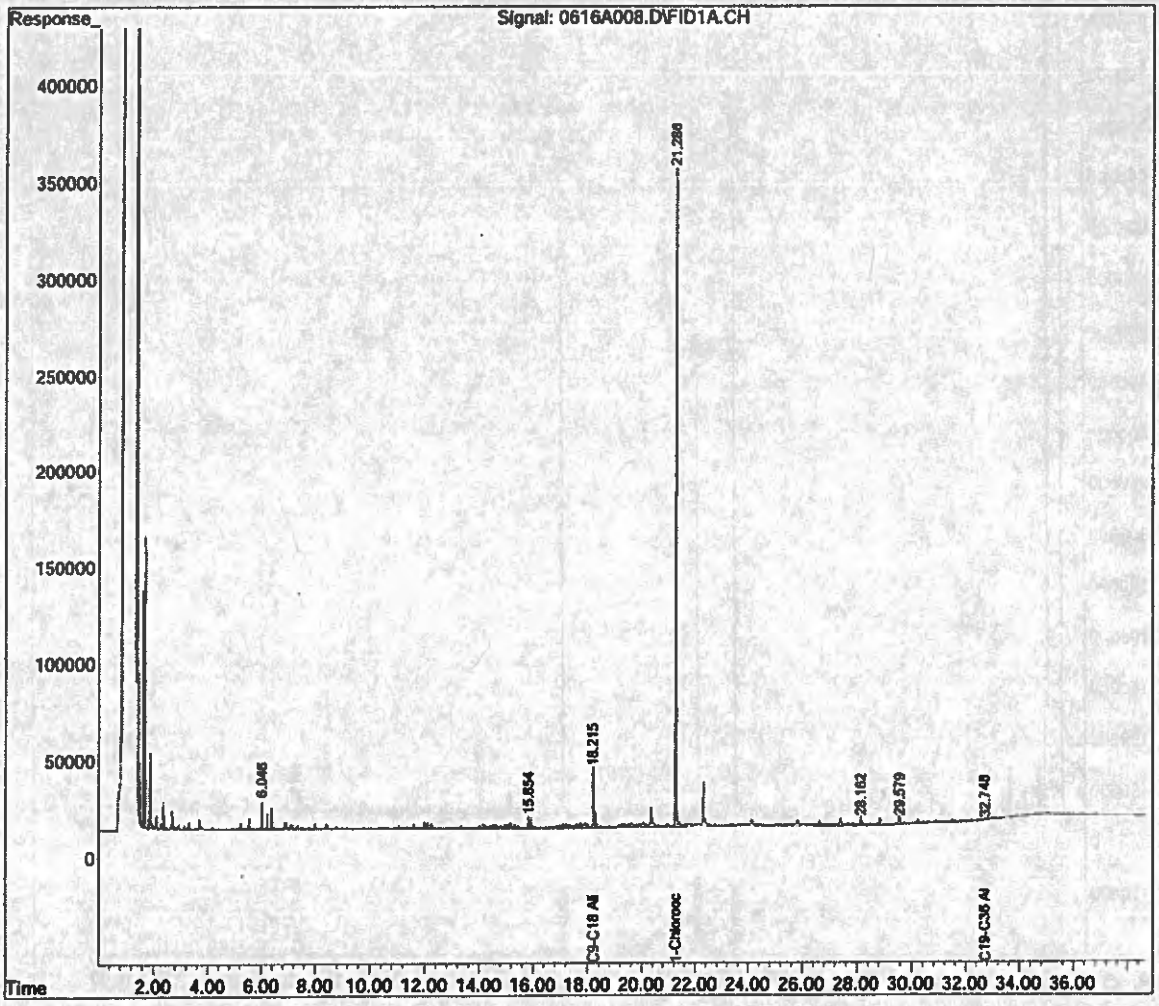


```
Sub List     : Default - All compounds listed Reviewed)

Data Path : I:\Petrol1\190616\
Data File : 0616A008.D
Signal(s) : FID1A.CH
Acq On    : 16 Jun 2019    7:52 pm
Operator  : Petrol1a:sr
Sample    : 11924143-04,42,,
Misc      : wg1249297,wg1248881,ICAL13532
ALS Vial  : 8   Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 17 14:38:24 2019
Quant Method : I:\Petrol1\190616\MAALI170330.M
Quant Title  : MA EPH Aliphatic
QLast Update : Thu Jun 06 12:14:30 2019
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.  :
Signal Phase :
Signal Info  :
```

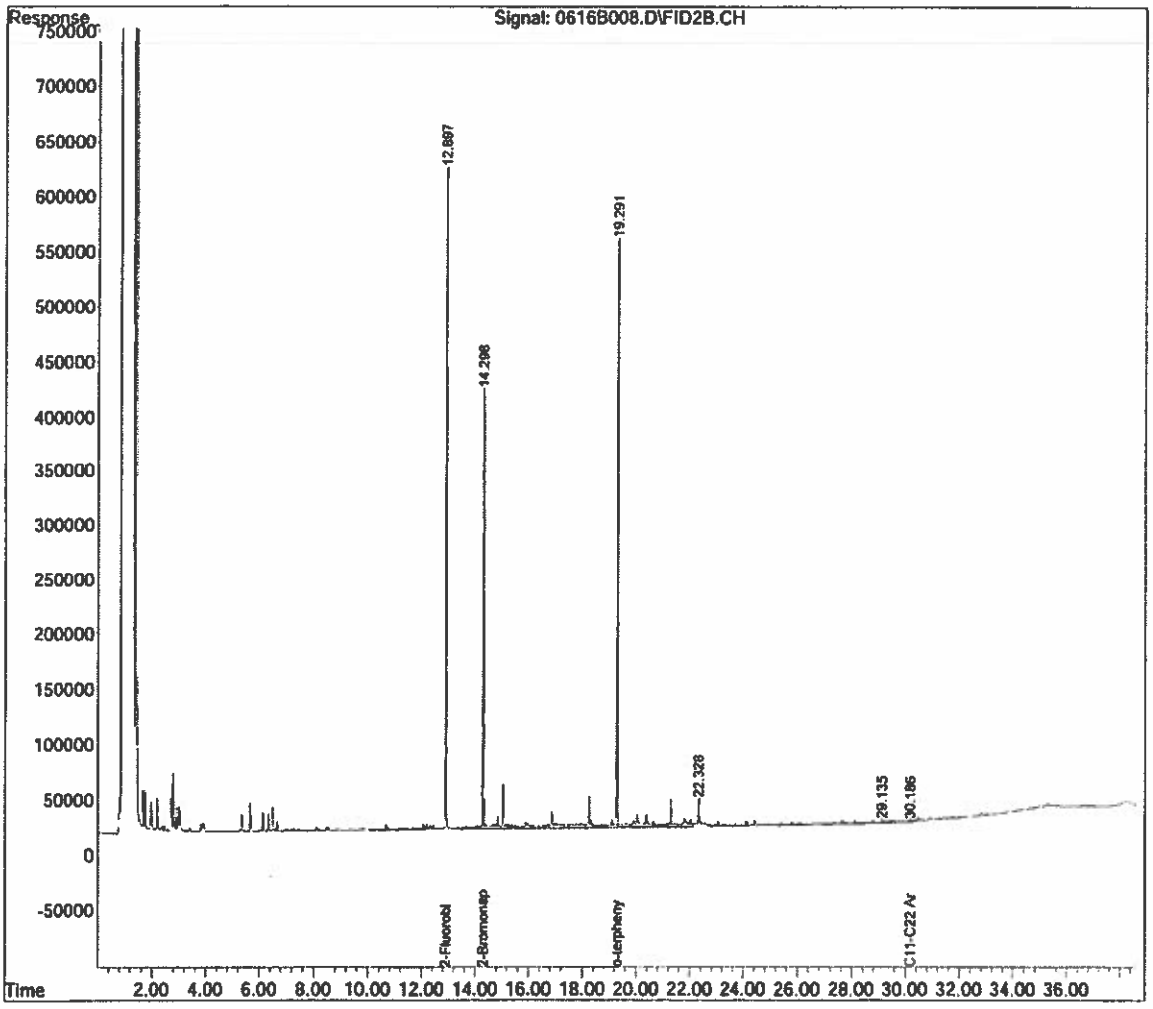


```
Sub List      : Default - All compounds listed Reviewed)

Data Path : I:\Petro11\190616.sec\
Data File : 0616B008.D
Signal(s) : FID2B.CH
Acq On    : 16 Jun 2019    7:52 pm
Operator  : Petro11b:sr
Sample    : 11924143-04,42,,
Misc      : wg1249297,wg1248881,ICAL13533
ALS Vial  : 58   Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 17 14:55:29 2019
Quant Method : I:\Petro11\190616.sec\MAARO170330.M
Quant Title  : MA EPH Aromatic
QLast Update : Thu Jun 06 12:17:03 2019
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.  :
Signal Phase :
Signal Info  :
```

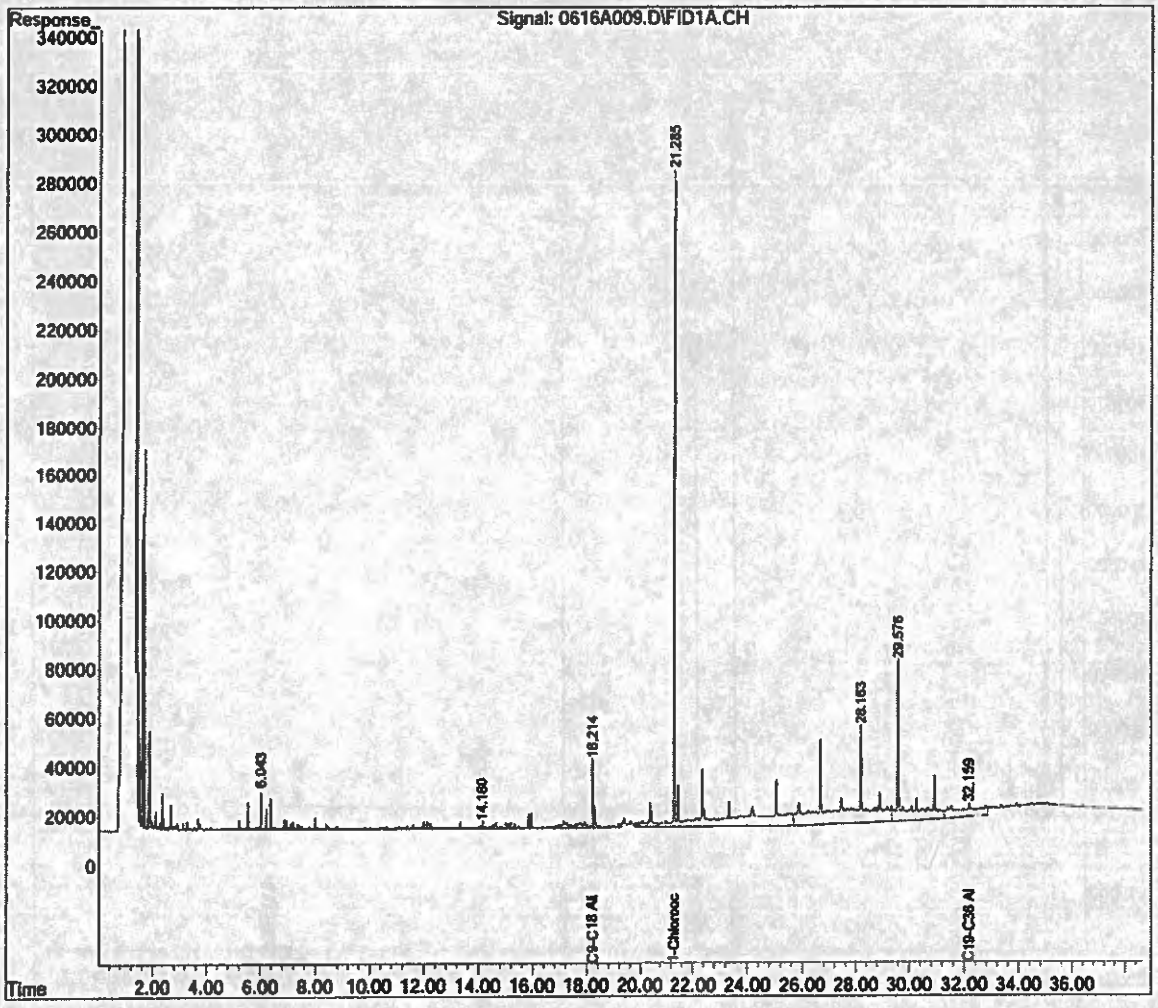


```
Sub List     : Default - All compounds listed Reviewed)

Data Path : I:\Petro11\190616\
Data File : 0616A009.D
Signal(s) : FID1A.CH
Acq On    : 16 Jun 2019    8:38 pm
Operator  : Petro11a:sr
Sample    : 11924143-05,42,,
Misc      : wg1249297,wg1248881,ICAL13532
ALS Vial  : 9   Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 17 14:38:50 2019
Quant Method : I:\Petro11\190616\MAALI170330.M
Quant Title  : MA EPH Aliphatic
QLast Update : Thu Jun 06 12:14:30 2019
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.  :
Signal Phase :
Signal Info  :
```

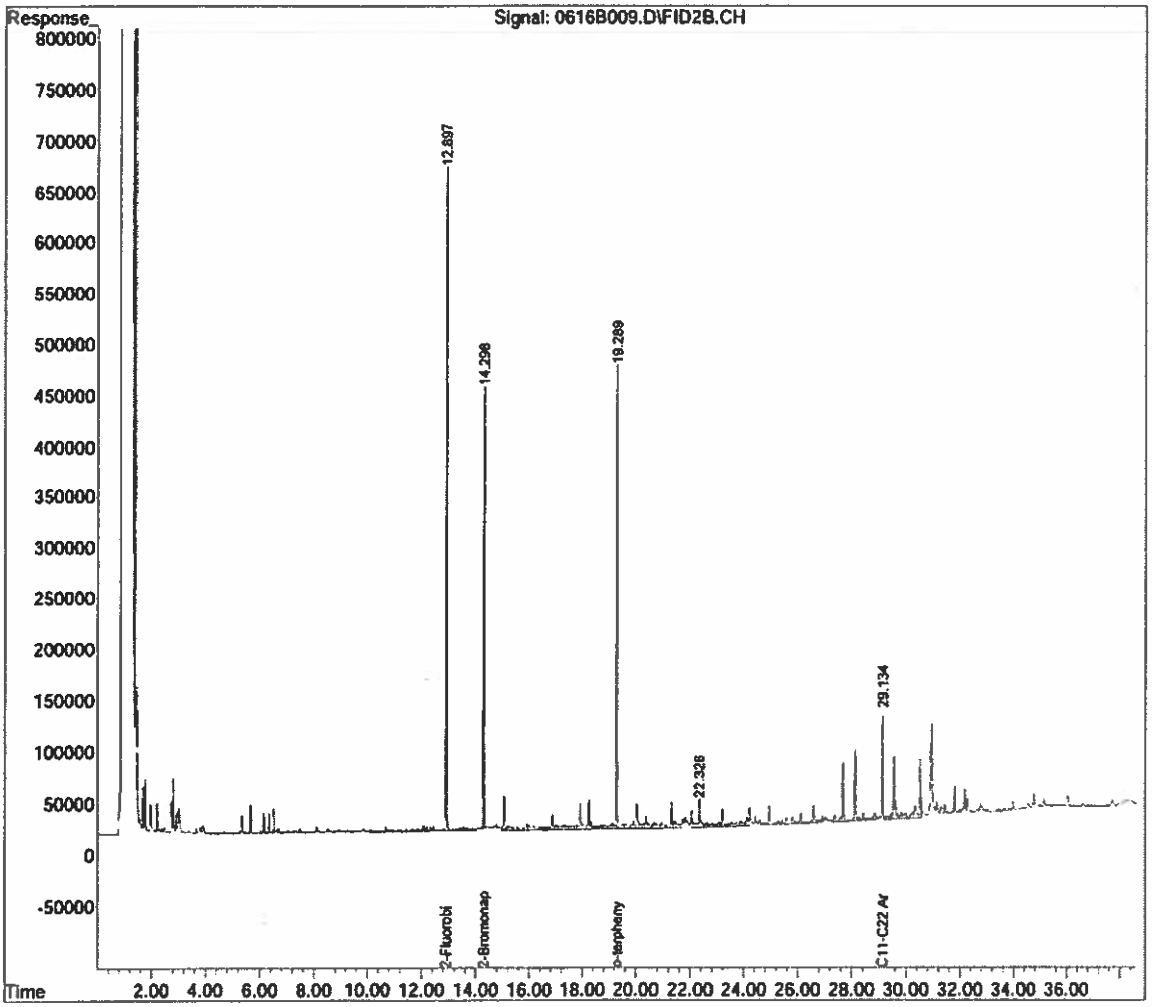


```
Sub List      : Default - All compounds listed Reviewed)

Data Path : I:\Petro11\190616.sec\
Data File : 0616B009.D
Signal(s) : FID2B.CH
Acq On    : 16 Jun 2019    8:38 pm
Operator  : Petro11b:sr
Sample    : 11924143-05,42,,
Misc      : wg1249297,wg1248881,ICAL13533
ALS Vial  : 59   Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 17 14:55:48 2019
Quant Method : I:\Petro11\190616.sec\MAARO170330.M
Quant Title  : MA EPH Aromatic
QLast Update : Thu Jun 06 12:17:03 2019
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.  :
Signal Phase :
Signal Info  :
```

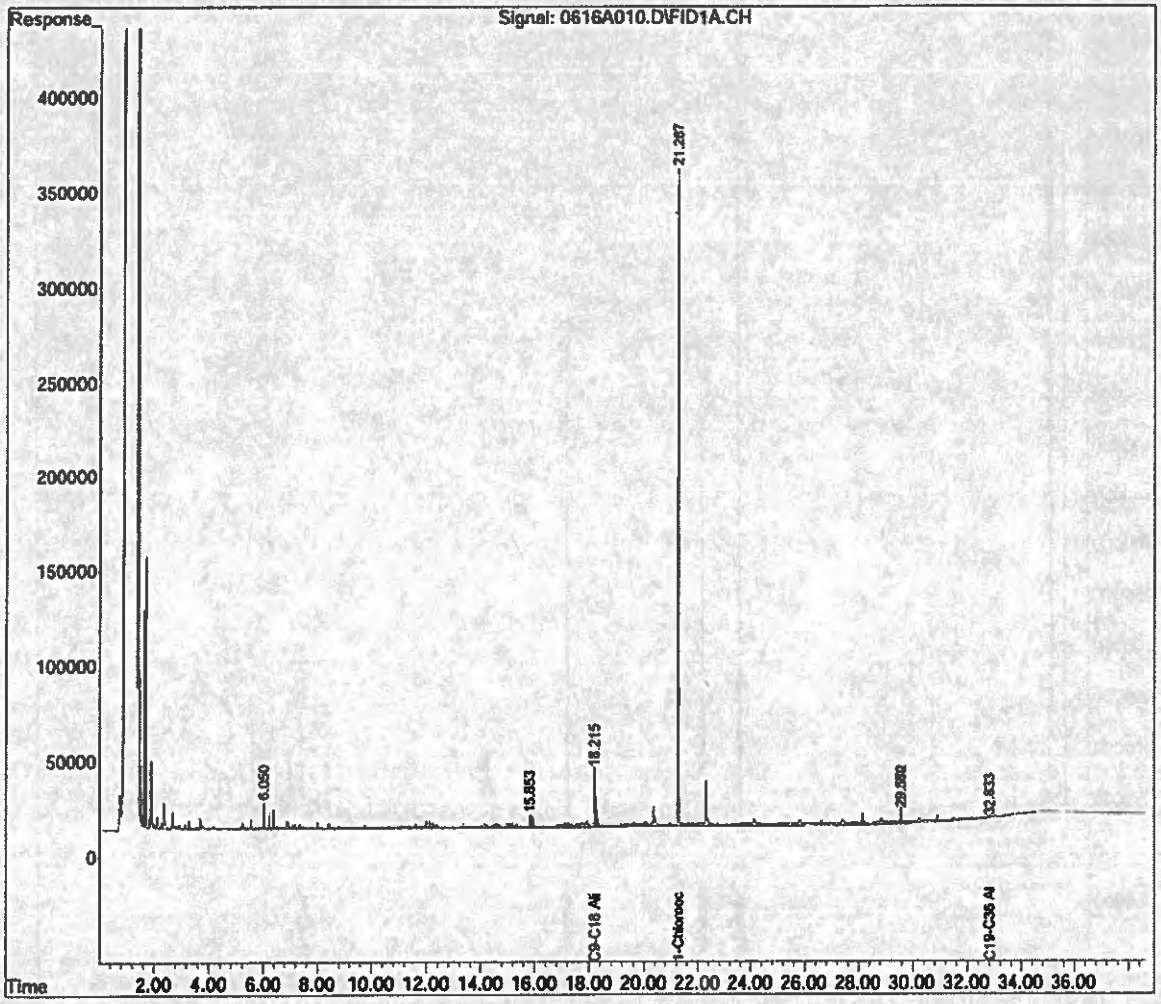


```
Sub List      : Default - All compounds listed Reviewed)

Data Path : I:\Petro11\190616\
Data File : 0616A010.D
Signal(s) : FID1A.CH
Acq On    : 16 Jun 2019    9:24 pm
Operator  : Petro11a:sr
Sample    : l1924143-06,42,,
Misc      : wg1249297,wg1248881,ICAL13532
ALS Vial  : 10   Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 17 14:39:18 2019
Quant Method : I:\Petro11\190616\MAALI170330.M
Quant Title  : MA EPH Aliphatic
QLast Update : Thu Jun 06 12:14:30 2019
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.  :
Signal Phase :
Signal Info  :
```

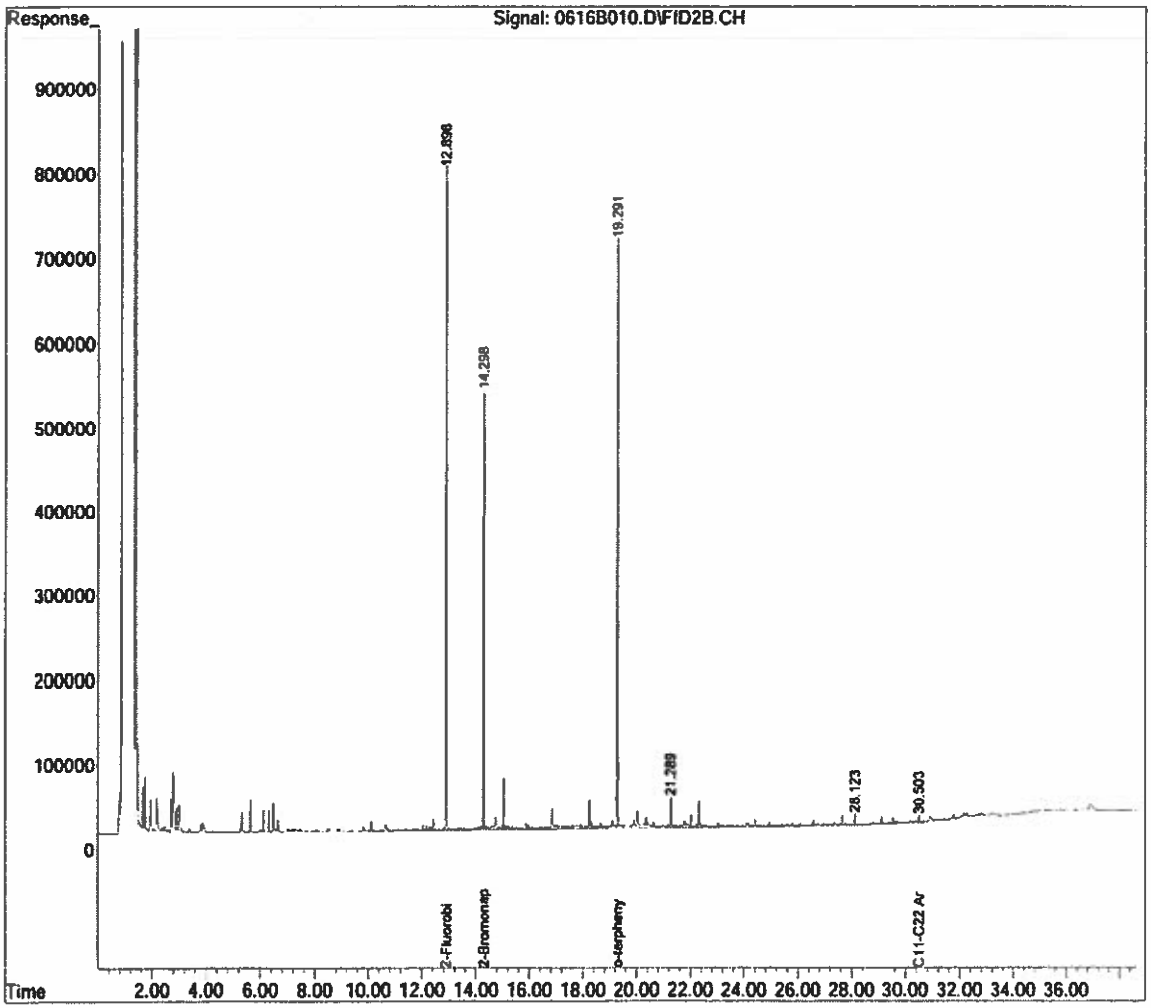


```
Sub List      : Default - All compounds listed Reviewed)

Data Path : I:\Petrol1\190616.sec\
Data File : 0616B010.D
Signal(s) : FID2B.CH
Acq On    : 16 Jun 2019    9:24 pm
Operator  : Petrol1b:sr
Sample    : l1924143-06,42,,
Misc      : wg1249297,wg1248881,ICAL13533
ALS Vial  : 60    Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 17 14:56:12 2019
Quant Method : I:\Petrol1\190616.sec\MAARO170330.M
Quant Title  : MA EPH Aromatic
QLast Update : Thu Jun 06 12:17:03 2019
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.  :
Signal Phase :
Signal Info  :
```

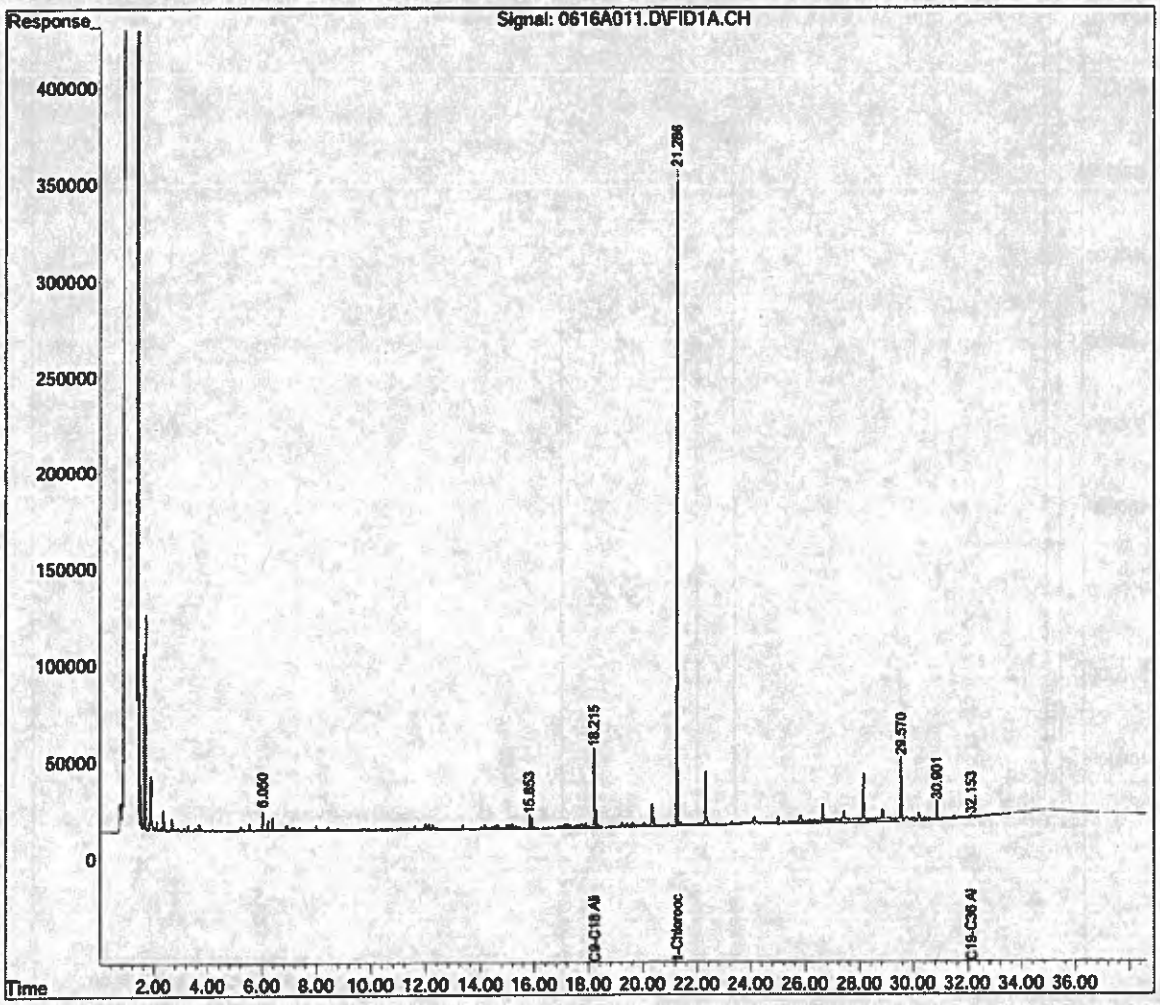


```
Sub List     : Default - All compounds listed Reviewed)

Data Path : I:\Petro11\190616\
Data File : 0616A011.D
Signal(s) : FID1A.CH
Acq On    : 16 Jun 2019  10:09 pm
Operator  : Petro11a:sr
Sample    : l1924143-07,42,,
Misc      : wg1249297,wg1248881,ICAL13532
ALS Vial  : 11   Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 17 14:39:49 2019
Quant Method : I:\Petro11\190616\MAALI170330.M
Quant Title  : MA EPH Aliphatic
QLast Update : Thu Jun 06 12:14:30 2019
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.  :
Signal Phase :
Signal Info  :
```

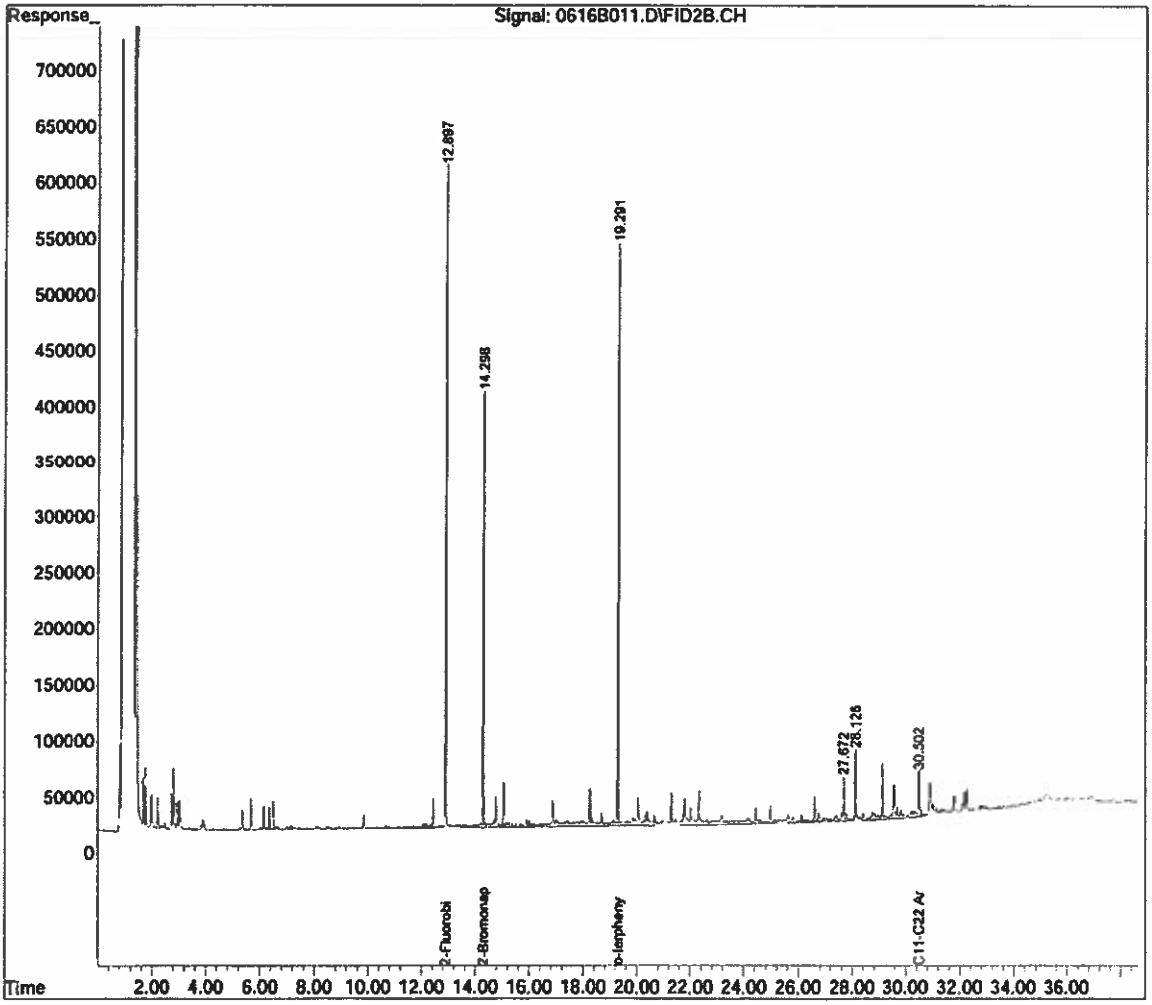


```
Sub List     : Default - All compounds listed Reviewed)

Data Path : I:\Petro11\190616.sec\
Data File : 0616B011.D
Signal(s) : FID2B.CH
Acq On    : 16 Jun 2019  10:09 pm
Operator  : Petro11b:sr
Sample    : 11924143-07,42,,
Misc      : wg1249297,wg1248881,ICAL13533
ALS Vial  : 61   Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 17 14:56:34 2019
Quant Method : I:\Petro11\190616.sec\MAARO170330.M
Quant Title  : MA EPH Aromatic
QLast Update : Thu Jun 06 12:17:03 2019
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.  :
Signal Phase :
Signal Info  :
```

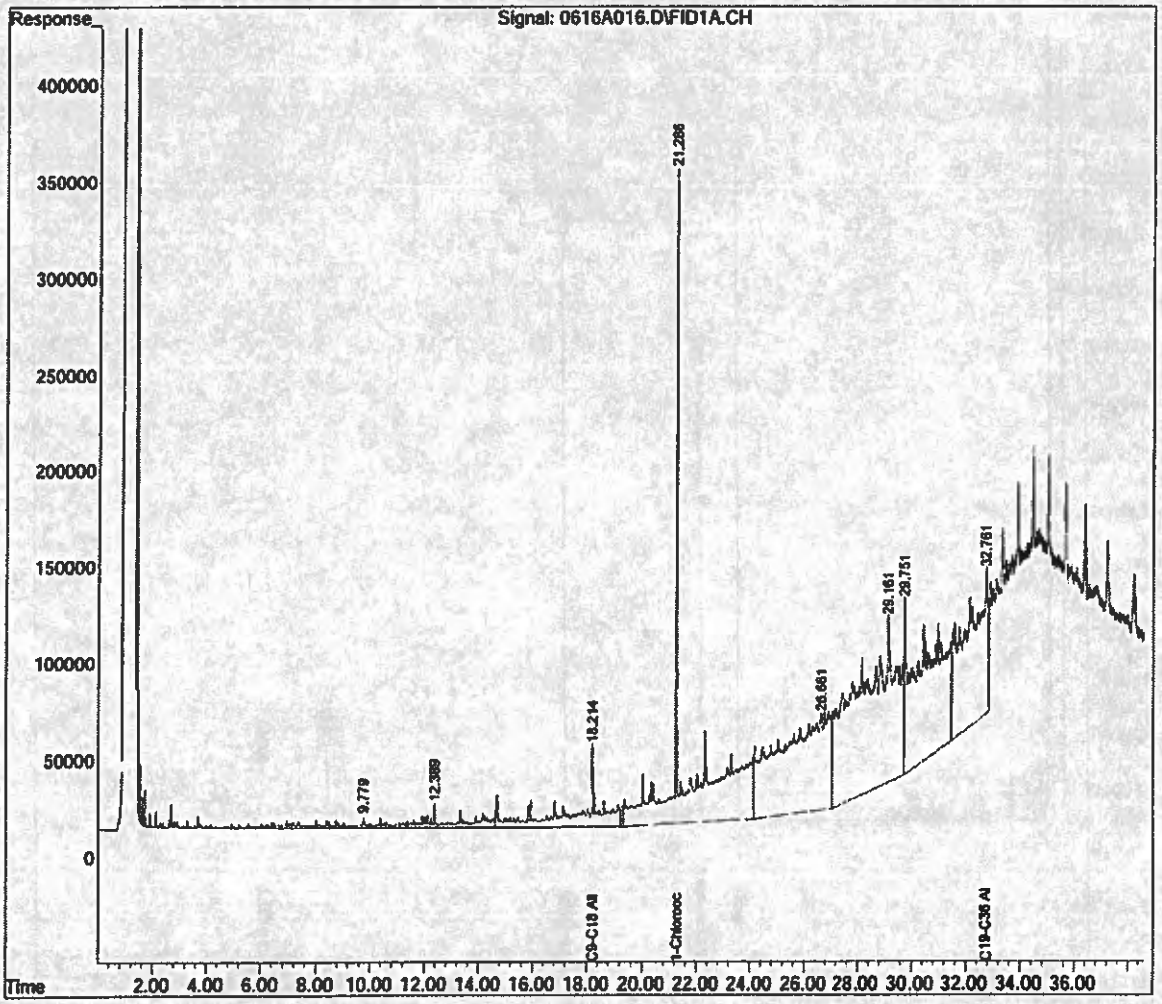


```
Sub List      : Default - All compounds listed Reviewed)

Data Path : I:\Petro11\190616\
Data File : 0616A016.D
Signal(s) : FID1A.CH
Acq On    : 17 Jun 2019    1:58 am
Operator  : Petro11a:sr
Sample    : l1924143-08,42,,
Misc      : wg1249297,wg1248881,ICAL13532
ALS Vial  : 16   Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 17 14:42:23 2019
Quant Method : I:\Petro11\190616\MAALI170330.M
Quant Title  : MA EPH Aliphatic
QLast Update : Thu Jun 06 12:14:30 2019
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.  :
Signal Phase :
Signal Info  :
```

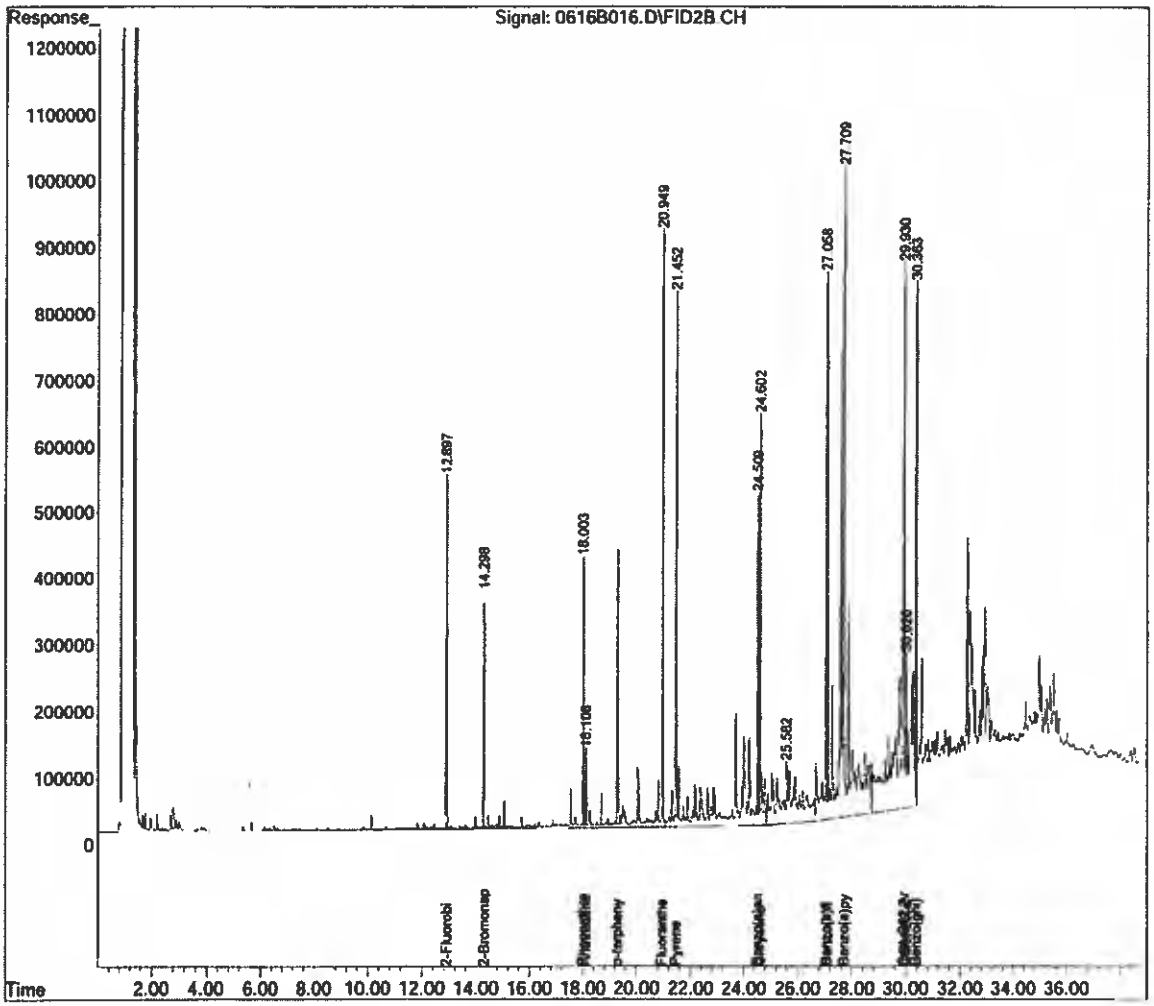


```
Sub List     : Default - All compounds listed Reviewed)

Data Path : I:\Petro11\190616.sec\
Data File : 0616B016.D
Signal(s) : FID2B.CH
Acq On    : 17 Jun 2019    1:58 am
Operator  : Petro11b:sr
Sample    : 11924143-08,42,,
Misc      : wg1249297,wg1248881,ICAL13533
ALS Vial  : 66   Sample Multiplier: 1

Integration File: events.e
Quant Time: Jun 17 15:00:06 2019
Quant Method : I:\Petro11\190616.sec\MAARO170330.M
Quant Title  : MA EPH Aromatic
QLast Update : Thu Jun 06 12:17:03 2019
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.  :
Signal Phase :
Signal Info  :
```



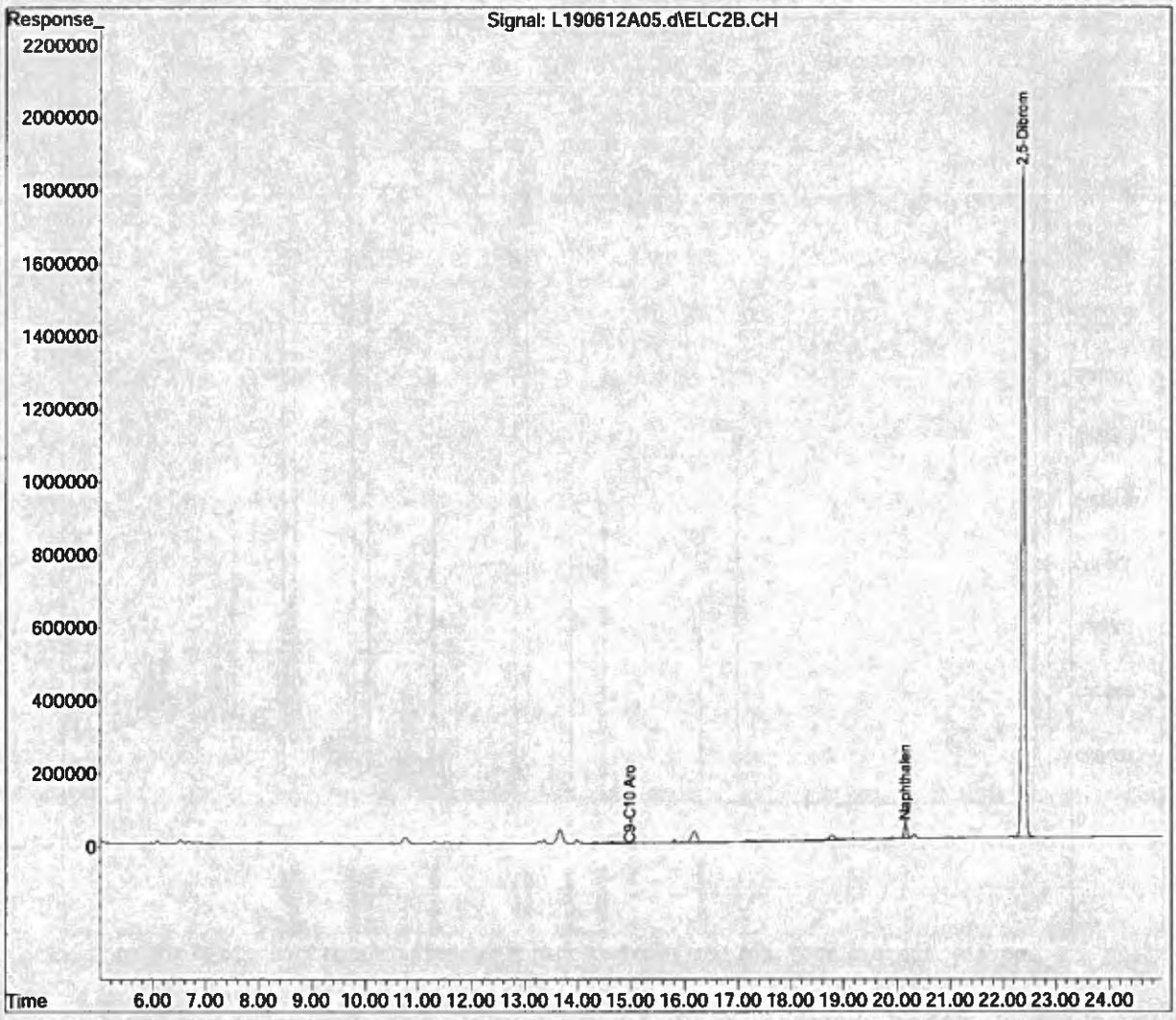
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES_GC\LVPH\2019\190612Aaro\
Data File : L190612A05.d
Signal(s) : ELC2B.CH
Acq On : 12 Jun 2019 9:08 am
Operator : LVPH:BAD
Sample : WG1248703-4,41,15,15,0.100,,
Misc : WG1248703,ICAL15508,VPH-75
ALS Vial : 0 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jun 12 14:08:40 2019
Quant Method : I:\VOLATILES_GC\LVPH\2019\190612Aaro\svph-aro190213B.m
Quant Title : VPH AROMATIC
QLast Update : Thu Feb 14 09:29:39 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Sub List : Default - All compounds listed



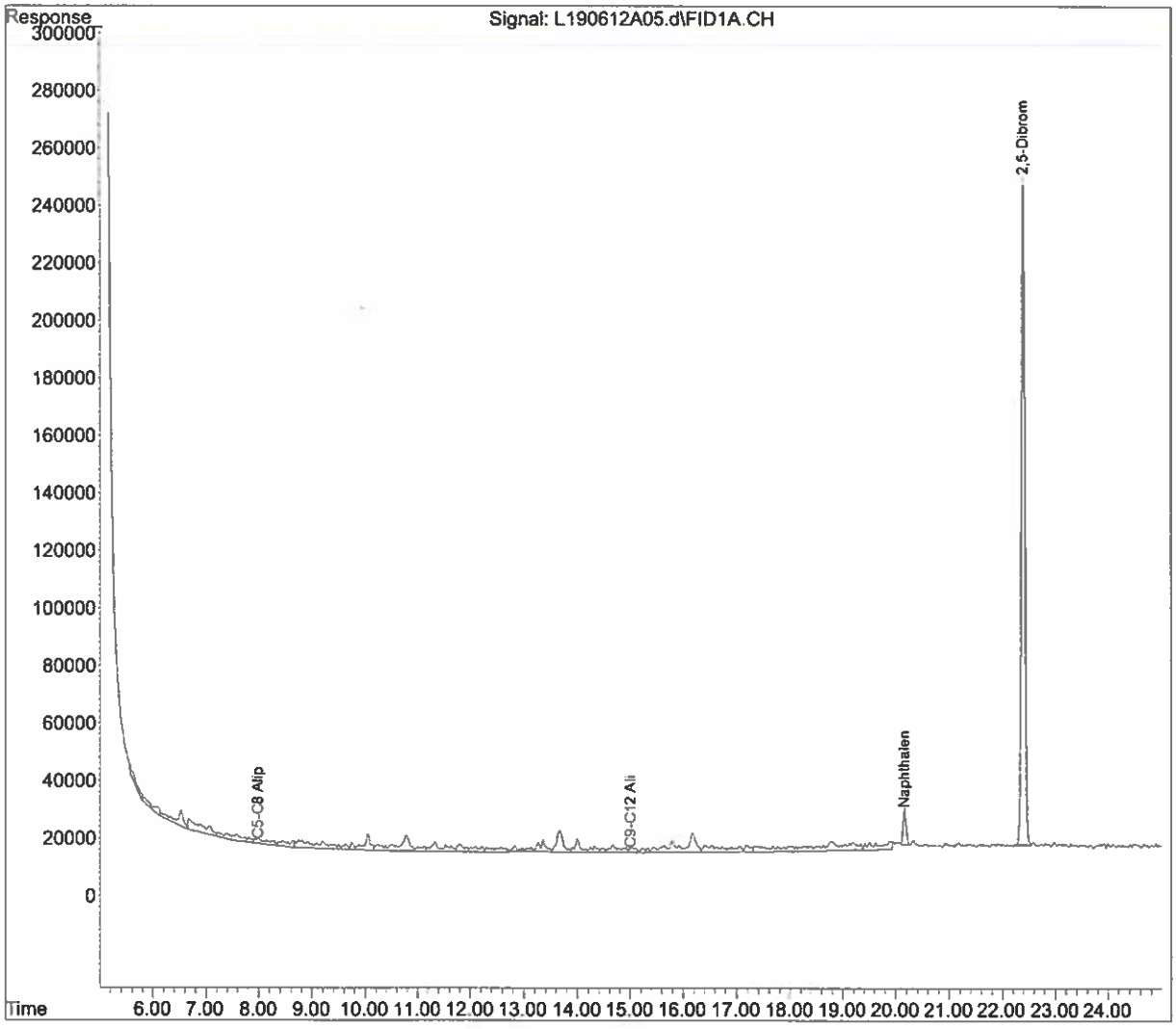
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES_GC\LVPH\2019\190612Aali\
Data File : L190612A05.d
Signal(s) : FID1A.CH
Acq On : 12 Jun 2019 9:08 am
Operator : LVPH:BAD
Sample : WG1248703-4,41,15,15,0.100,,
Misc : WG1248703,ICAL15507,VPH-75
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jun 12 14:04:54 2019
Quant Method : I:\VOLATILES_GC\LVPH\2019\190612Aali\svph-ali190213B.m
Quant Title : VPH ALIPHATIC
QLast Update : Fri Feb 15 11:27:29 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Sub List : Default - All compounds listed



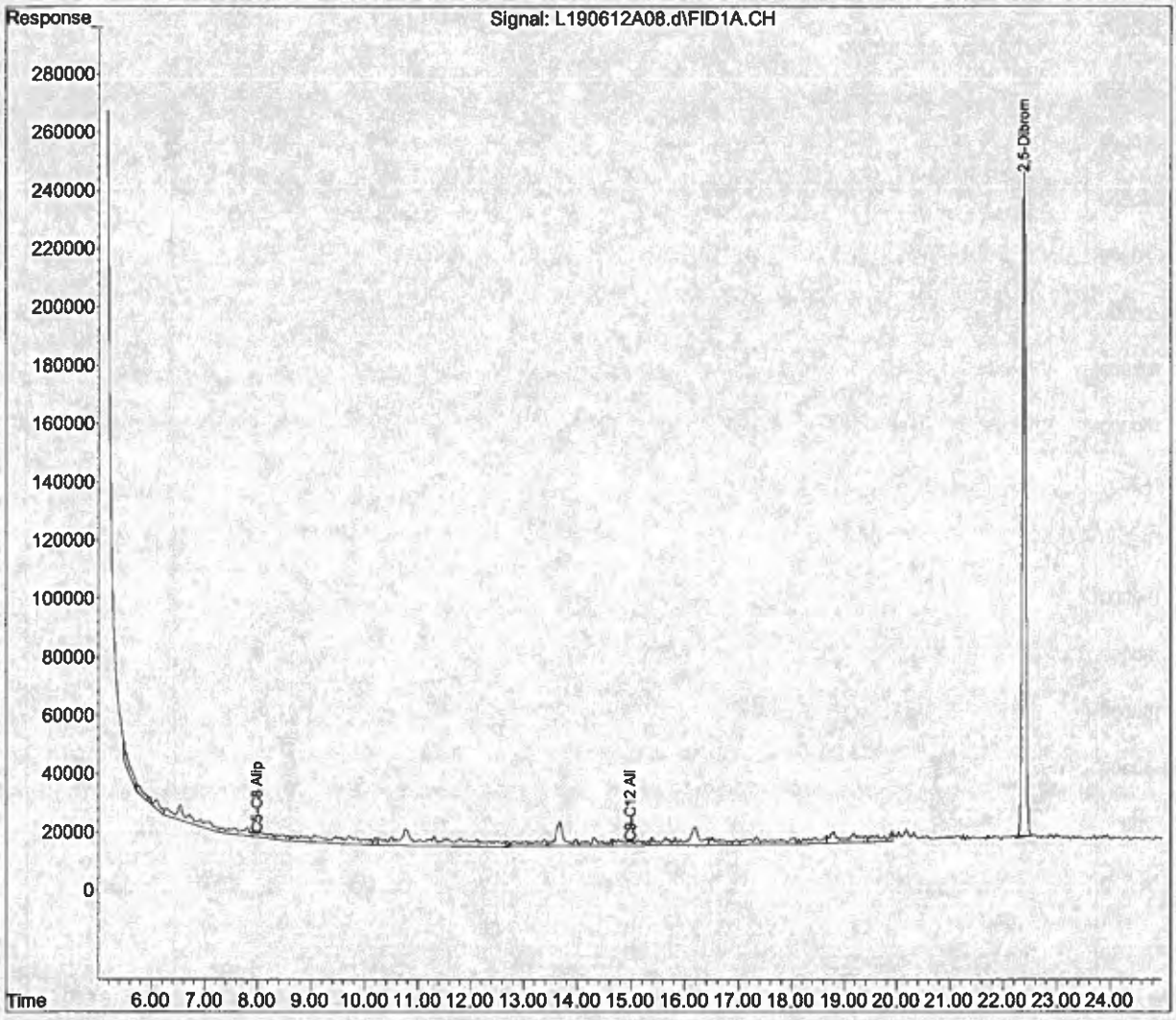
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES_GC\LVPH\2019\190612Aali\
Data File : L190612A08.d
Signal(s) : FID1A.CH
Acq On : 12 Jun 2019 11:33 am
Operator : LVPH:BAD
Sample : 11924143-01,41,15,6.98,0.100,,a
Misc : WG1248703,ICAL15507,VPH-75
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jun 14 12:04:19 2019
Quant Method : I:\VOLATILES_GC\LVPH\2019\190612Aali\svph-ali190213B.m
Quant Title : VPH ALIPHATIC
QLast Update : Fri Feb 15 11:27:29 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Sub List : Default - All compounds listed



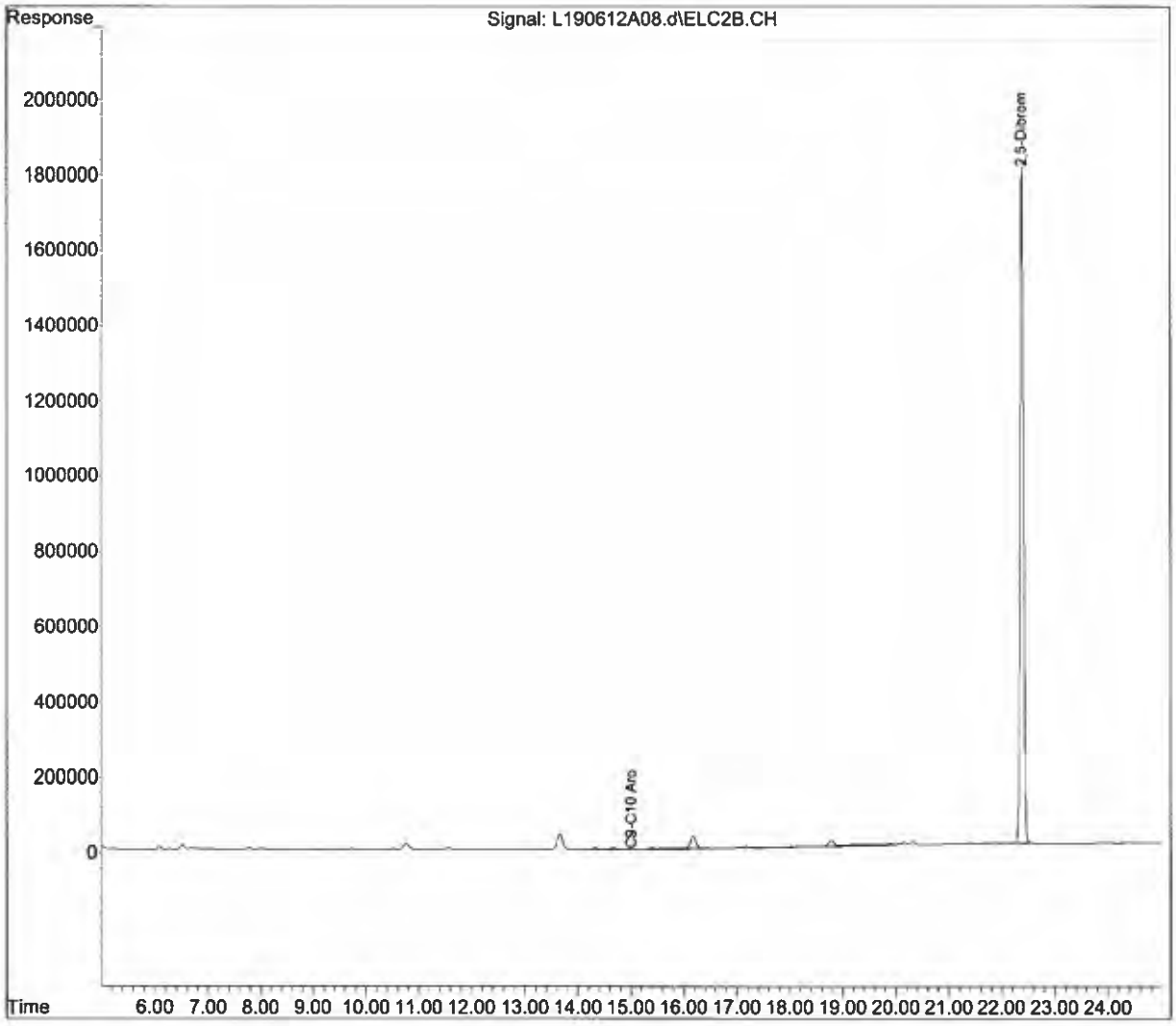
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES_GC\LVPH\2019\190612Aaro\
Data File : L190612A08.d
Signal(s) : ELC2B.CH
Acq On : 12 Jun 2019 11:33 am
Operator : LVPH:BAD
Sample : 11924143-01,41,15,6.98,0.100,,a
Misc : WG1248703,ICAL15508,VPH-75
ALS Vial : 0 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jun 14 13:43:15 2019
Quant Method : I:\VOLATILES_GC\LVPH\2019\190612Aaro\svph-aro190213B.m
Quant Title : VPH AROMATIC
QLast Update : Thu Feb 14 09:29:39 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Sub List : Default - All compounds listed



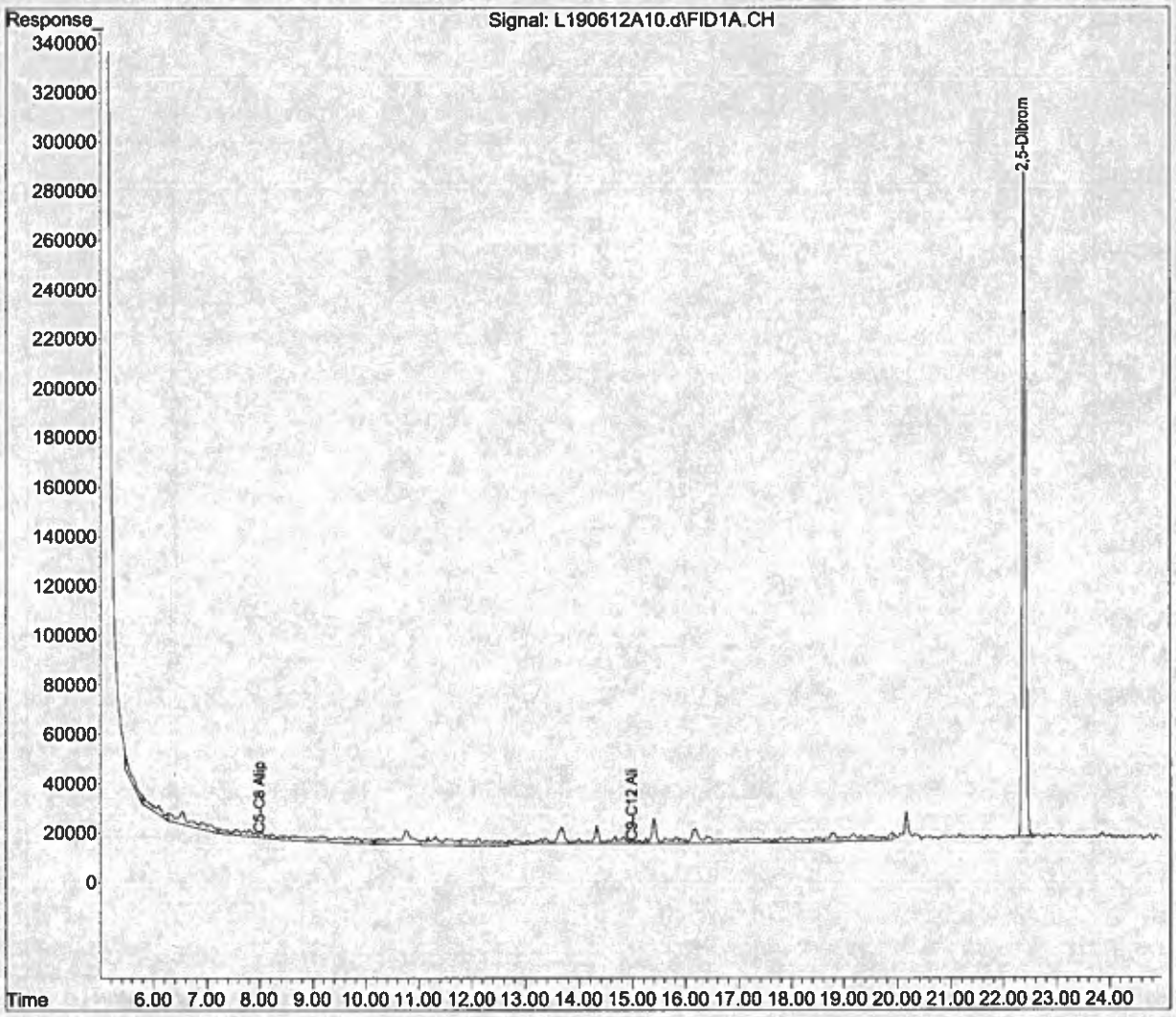
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES_GC\LVPH\2019\190612Aali\
Data File : L190612A10.d
Signal(s) : FID1A.CH
Acq On : 12 Jun 2019 12:35 pm
Operator : LVPH:BAD
Sample : l1924143-02,41,15,5.44,0.100,,a
Misc : WG1248703,ICAL15507,VPH-75
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jun 14 12:05:42 2019
Quant Method : I:\VOLATILES_GC\LVPH\2019\190612Aali\svph-ali190213B.m
Quant Title : VPH ALIPHATIC
QLast Update : Fri Feb 15 11:27:29 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Sub List : Default - All compounds listed



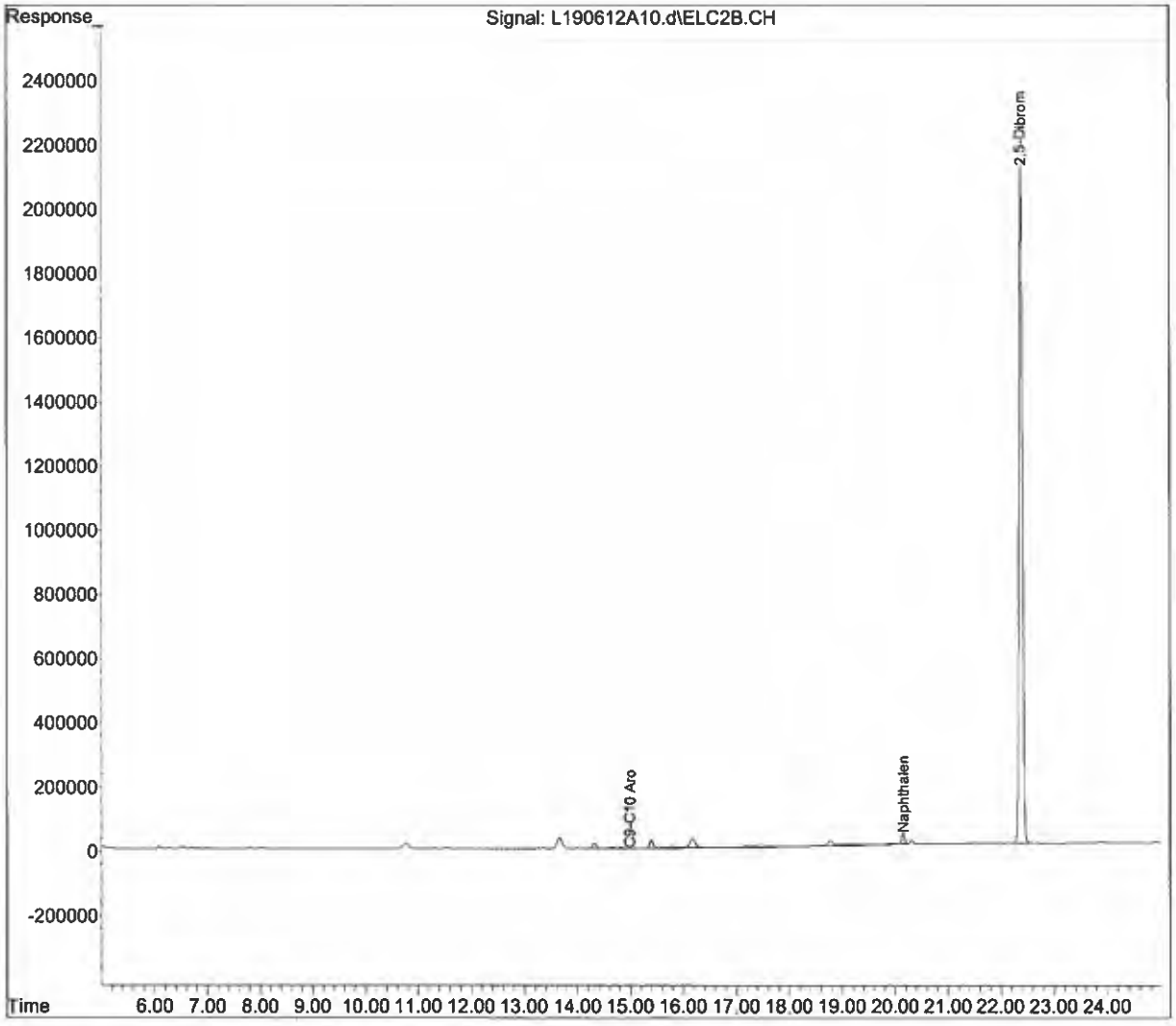
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES_GC\LVPH\2019\190612Aaro\
Data File : L190612A10.d
Signal(s) : ELC2B.CH
Acq On : 12 Jun 2019 12:35 pm
Operator : LVPH:BAD
Sample : 11924143-02,41,15,5.44,0.100,,a
Misc : WG1248703,ICAL15508,VPH-75
ALS Vial : 0 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jun 14 13:44:12 2019
Quant Method : I:\VOLATILES_GC\LVPH\2019\190612Aaro\svph-aro190213B.m
Quant Title : VPH AROMATIC
QLast Update : Thu Feb 14 09:29:39 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Sub List : Default - All compounds listed



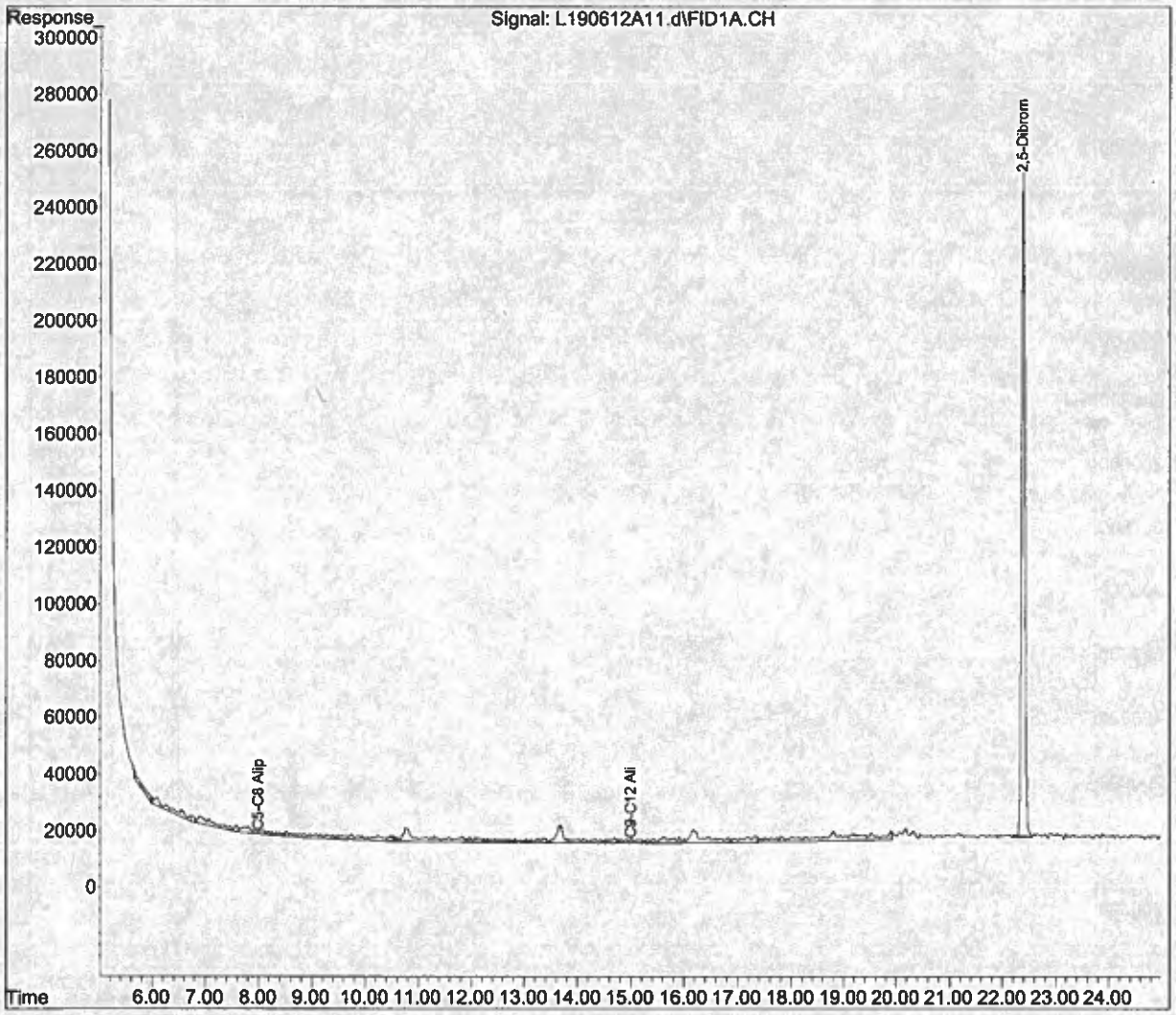
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES_GC\LVPH\2019\190612Aali\
Data File : L190612A11.d
Signal(s) : FID1A.CH
Acq On : 12 Jun 2019 1:06 pm
Operator : LVPH:BAD
Sample : 11924143-03,41,15,5.58,0.100,,a
Misc : WG1248703,ICAL15507,VPH-75
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jun 14 12:07:15 2019
Quant Method : I:\VOLATILES_GC\LVPH\2019\190612Aali\svph-ali190213B.m
Quant Title : VPH ALIPHATIC
QLast Update : Fri Feb 15 11:27:29 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Sub List : Default - All compounds listed



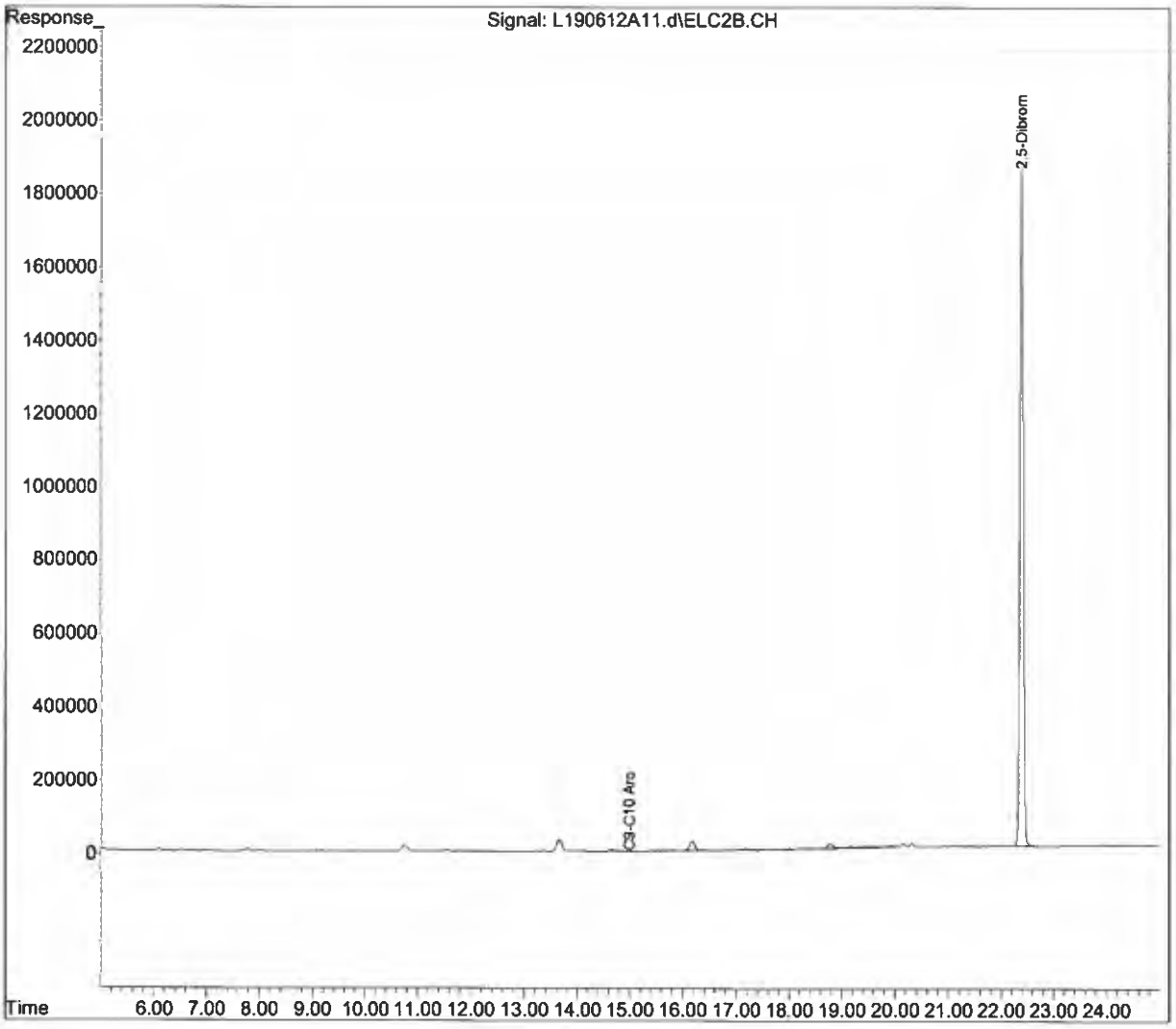
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES_GC\LVPH\2019\190612Aaro\
Data File : L190612A11.d
Signal(s) : ELC2B.CH
Acq On : 12 Jun 2019 1:06 pm
Operator : LVPH:BAD
Sample : 11924143-03,41,15,5.58,0.100,,a
Misc : WG1248703,ICAL15508,VPH-75
ALS Vial : 0 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jun 14 13:45:03 2019
Quant Method : I:\VOLATILES_GC\LVPH\2019\190612Aaro\svph-aro190213B.m
Quant Title : VPH AROMATIC
QLast Update : Thu Feb 14 09:29:39 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Sub List : Default - All compounds listed



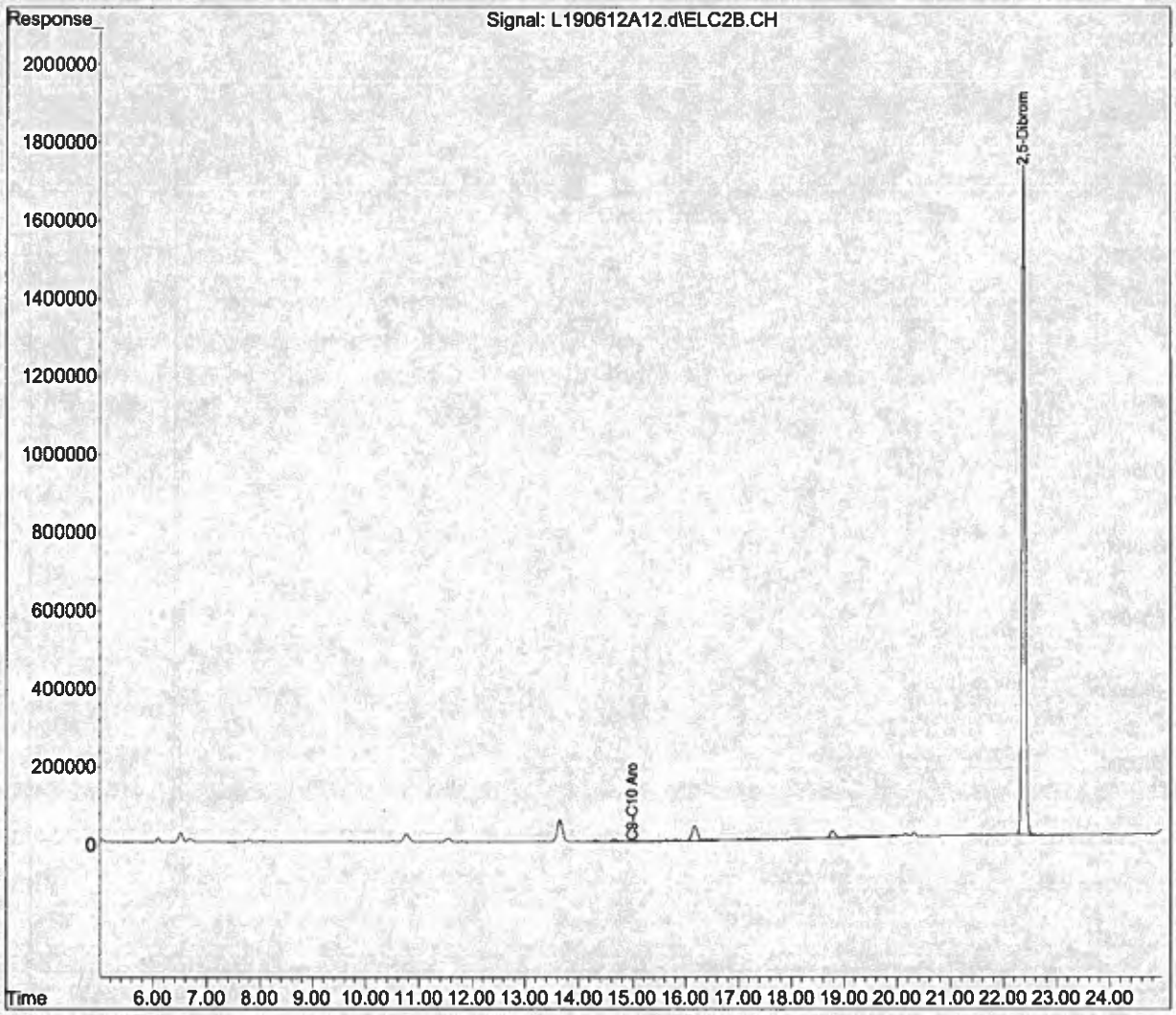
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES_GC\LVPH\2019\190612Aaro\
Data File : L190612A12.d
Signal(s) : ELC2B.CH
Acq On : 12 Jun 2019 1:37 pm
Operator : LVPH:BAD
Sample : 11924143-04,41,15,6.46,0.100,,a
Misc : WG1248703,ICAL15508,VPH-75
ALS Vial : 0 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jun 14 13:47:05 2019
Quant Method : I:\VOLATILES_GC\LVPH\2019\190612Aaro\svph-aro190213B.m
Quant Title : VPH AROMATIC
QLast Update : Thu Feb 14 09:29:39 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Sub List : Default - All compounds listed



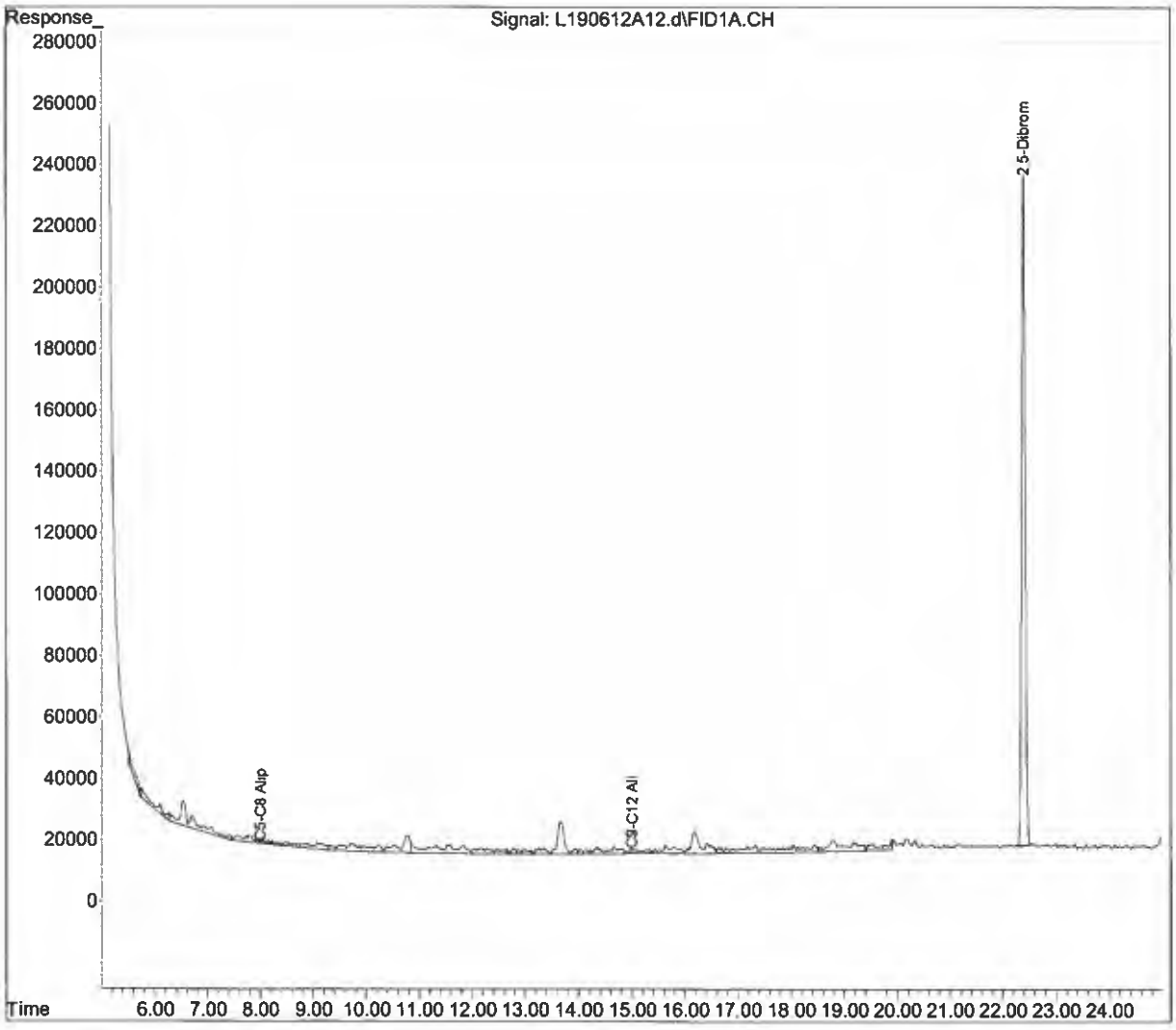
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES_GC\LVPH\2019\190612Aali\
Data File : L190612A12.d
Signal(s) : FID1A.CH
Acq On : 12 Jun 2019 1:37 pm
Operator : LVPH:BAD
Sample : l1924143-04,41,15,6.46,0.100,,a
Misc : WG1248703,ICAL15507,VPH-75
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jun 14 12:08:43 2019
Quant Method : I:\VOLATILES_GC\LVPH\2019\190612Aali\svph-ali190213B.m
Quant Title : VPH ALIPHATIC
QLast Update : Fri Feb 15 11:27:29 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Sub List : Default - All compounds listed



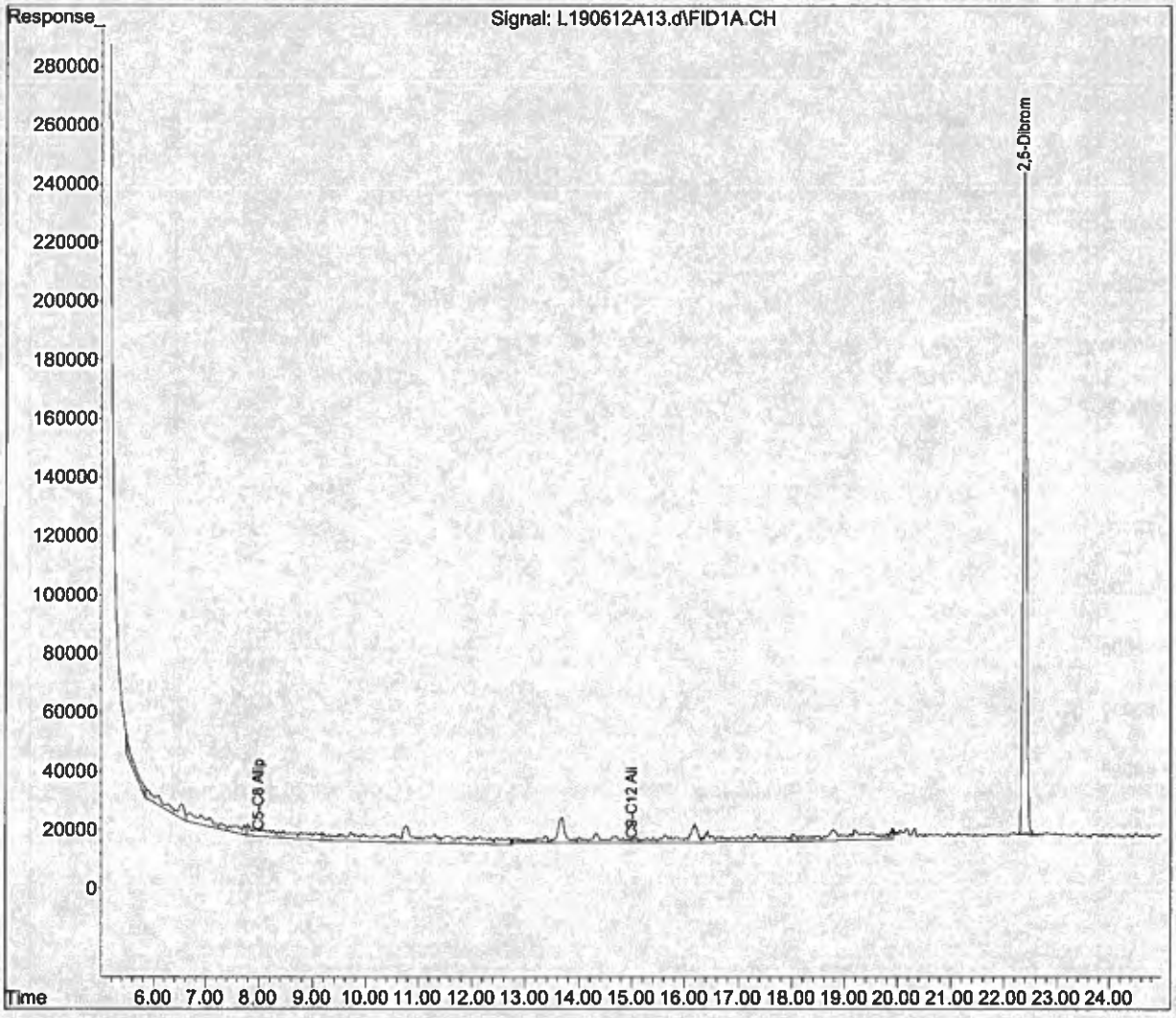
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES_GC\LVPH\2019\190612Aali\
Data File : L190612A13.d
Signal(s) : FID1A.CH
Acq On : 12 Jun 2019 2:08 pm
Operator : LVPH:BAD
Sample : 11924143-05,41,15,5.77,0.100,,a
Misc : WG1248703,ICAL15507,VPH-75
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jun 14 12:09:43 2019
Quant Method : I:\VOLATILES_GC\LVPH\2019\190612Aali\svph-ali190213B.m
Quant Title : VPH ALIPHATIC
QLast Update : Fri Feb 15 11:27:29 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Sub List : Default - All compounds listed



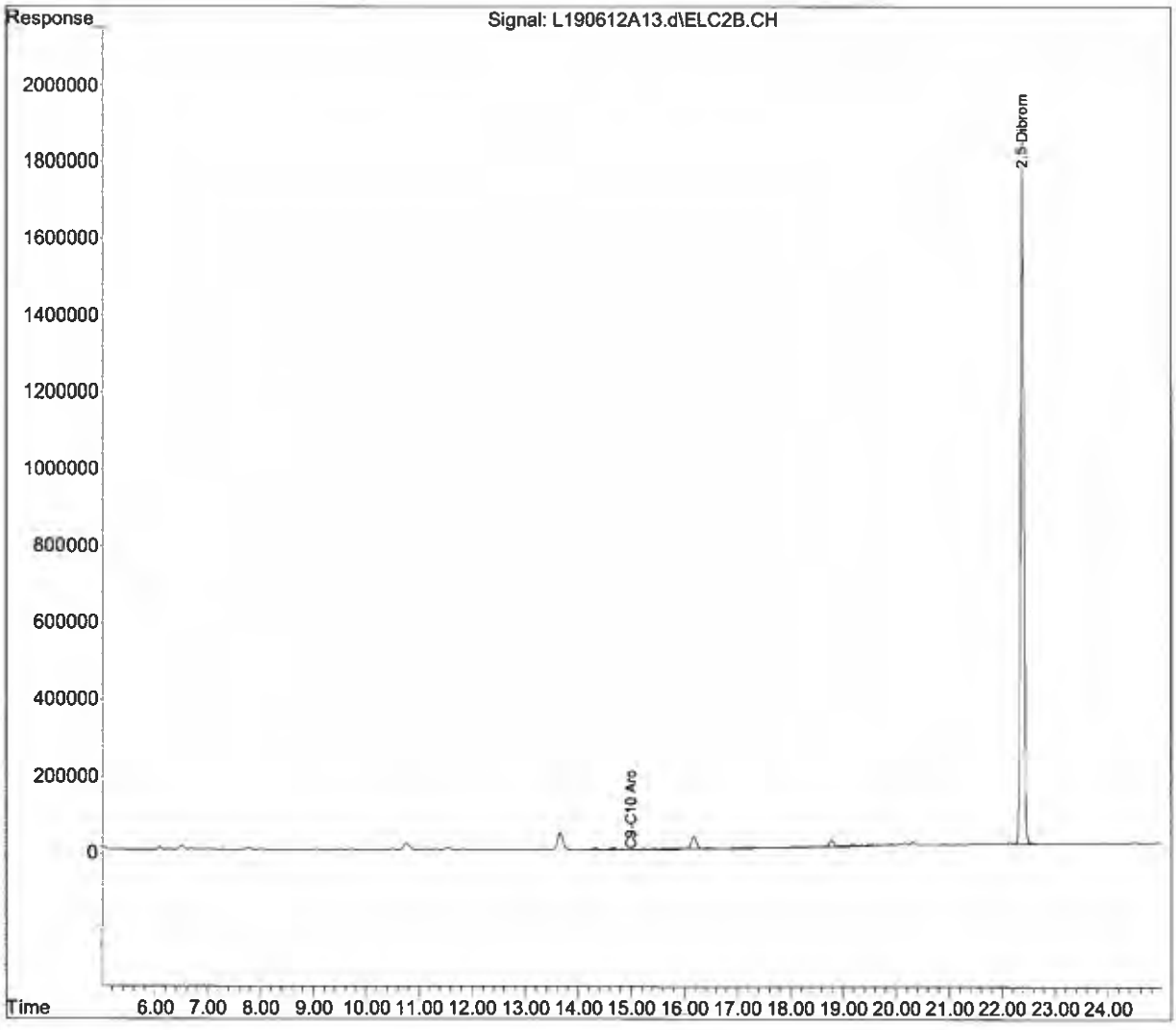
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES_GC\LVPH\2019\190612Aaro\
Data File : L190612A13.d
Signal(s) : ELC2B.CH
Acq On : 12 Jun 2019 2:08 pm
Operator : LVPH:BAD
Sample : 11924143-05,41,15,5.77,0.100,,a
Misc : WG1248703,ICAL15508,VPH-75
ALS Vial : 0 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jun 14 13:52:11 2019
Quant Method : I:\VOLATILES_GC\LVPH\2019\190612Aaro\svph-aro190213B.m
Quant Title : VPH AROMATIC
QLast Update : Thu Feb 14 09:29:39 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Sub List : Default - All compounds listed



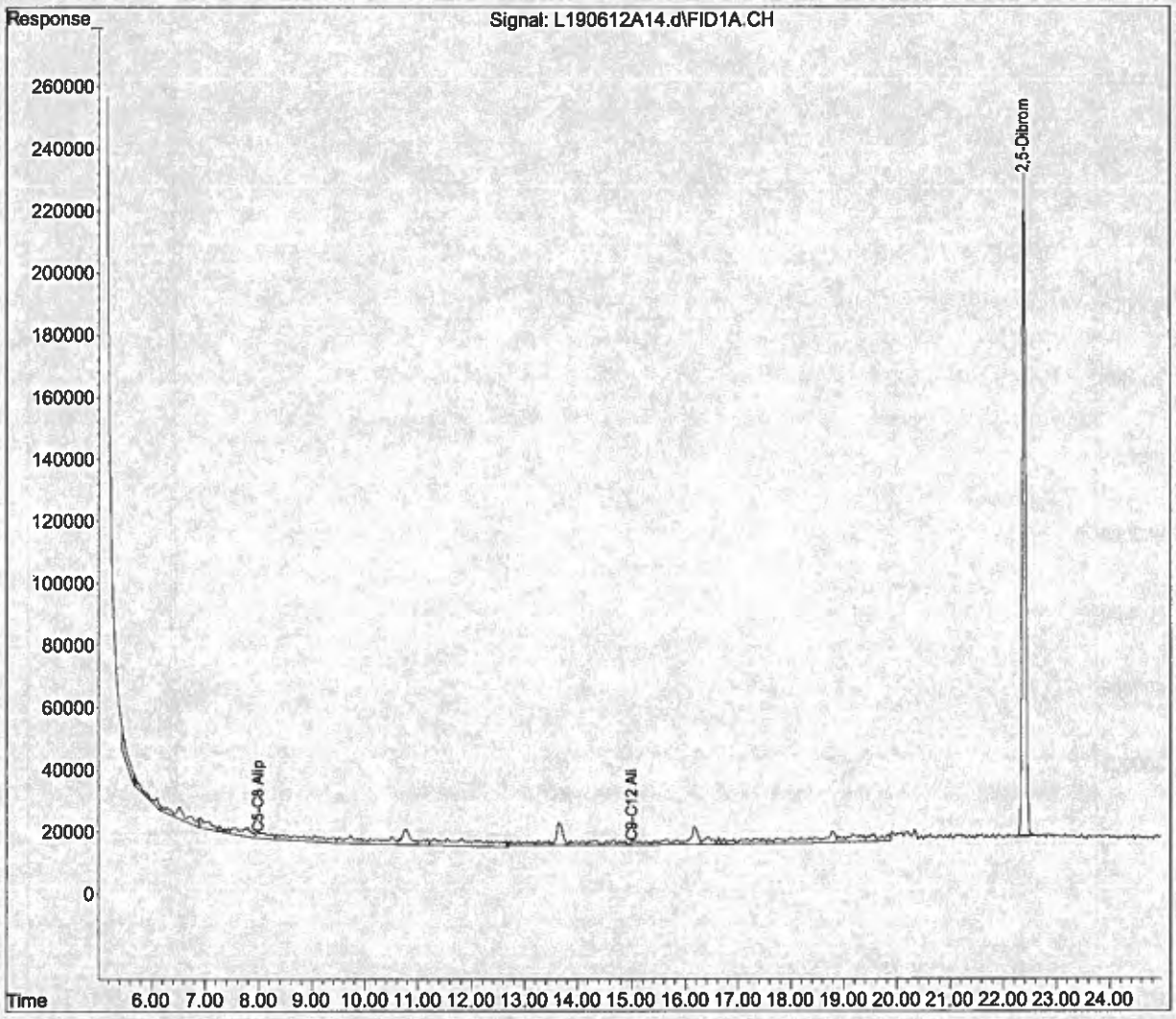
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES_GC\LVPH\2019\190612Aali\
Data File : L190612A14.d
Signal(s) : FID1A.CH
Acq On : 12 Jun 2019 2:39 pm
Operator : LVPH:BAD
Sample : l1924143-06,41,15,6.75,0.100,,a
Misc : WG1248703,ICAL15507,VPH-75
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jun 14 12:11:45 2019
Quant Method : I:\VOLATILES_GC\LVPH\2019\190612Aali\svph-ali190213B.m
Quant Title : VPH ALIPHATIC
QLast Update : Fri Feb 15 11:27:29 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Sub List : Default - All compounds listed



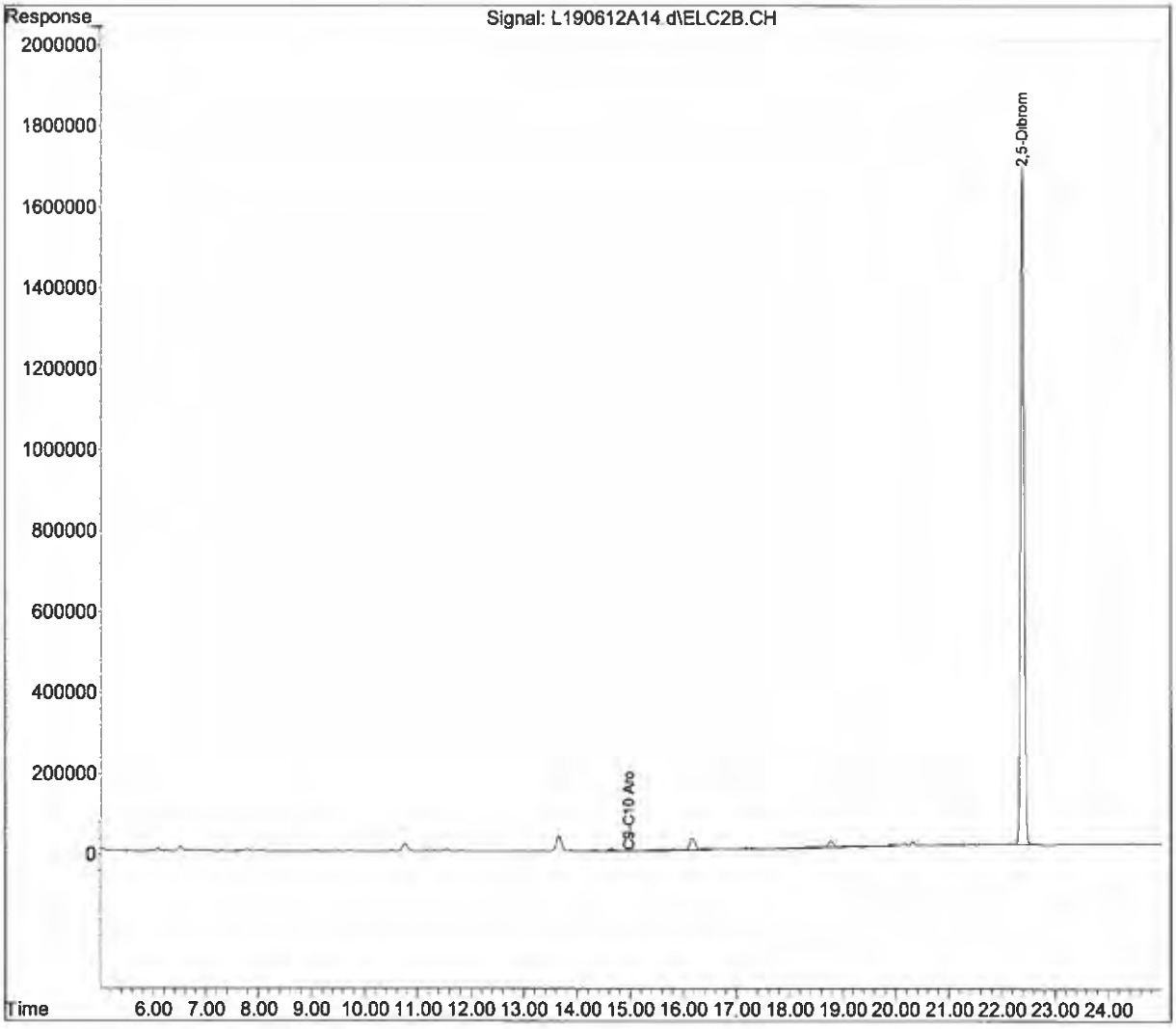
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES_GC\LVPH\2019\190612Aaro\
Data File : L190612A14.d
Signal(s) : ELC2B.CH
Acq On : 12 Jun 2019 2:39 pm
Operator : LVPH:BAD
Sample : 11924143-06,41,15,6.75,0.100,,a
Misc : WG1248703,ICAL15508,VPH-75
ALS Vial : 0 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jun 14 13:54:52 2019
Quant Method : I:\VOLATILES_GC\LVPH\2019\190612Aaro\svph-aro190213B.m
Quant Title : VPH AROMATIC
QLast Update : Thu Feb 14 09:29:39 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Sub List : Default - All compounds listed



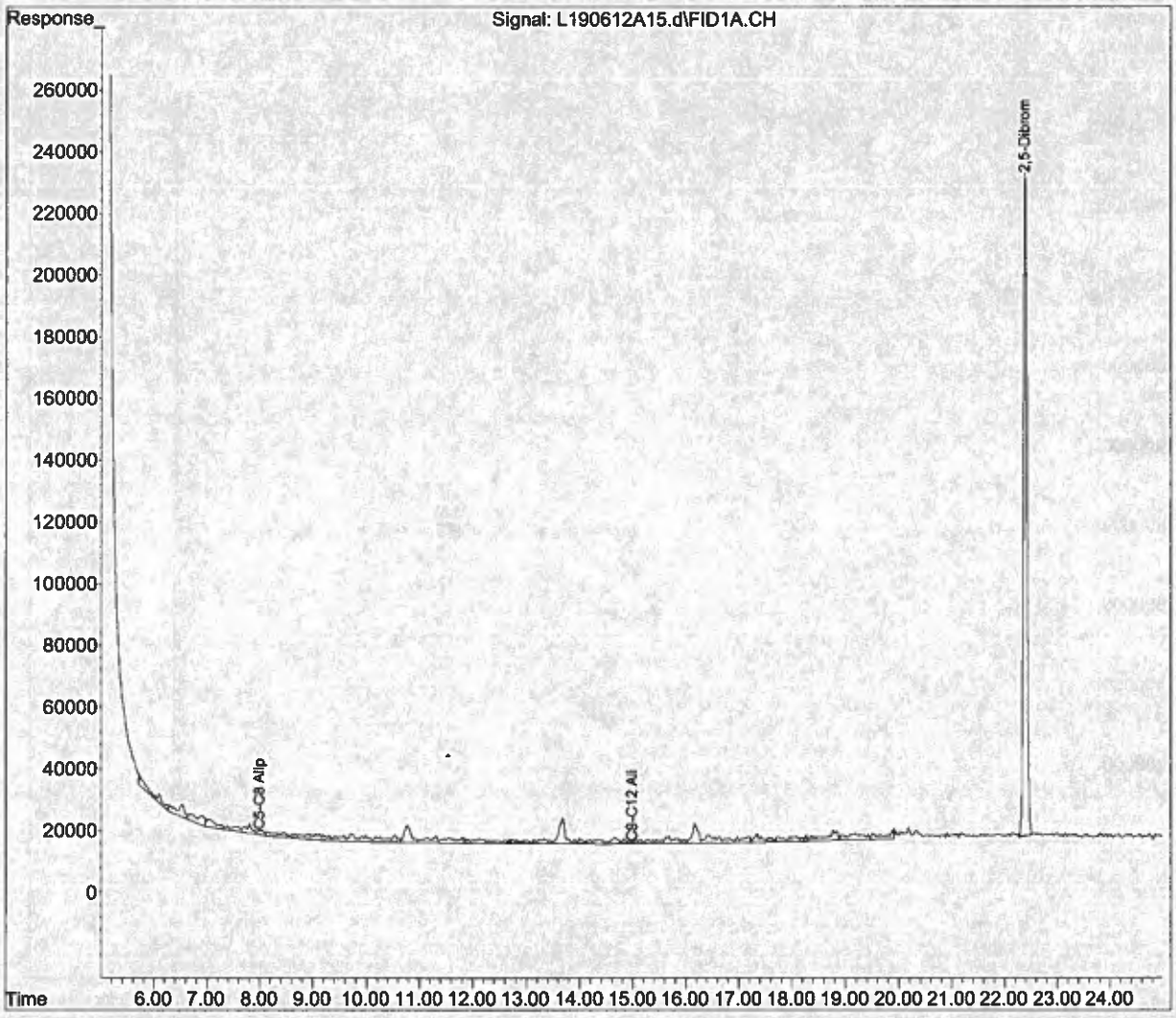
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES_GC\LVPH\2019\190612Aali\
Data File : L190612A15.d
Signal(s) : FID1A.CH
Acq On : 12 Jun 2019 3:10 pm
Operator : LVPH:BAD
Sample : 11924143-07,41,15,7.23,0.100,,a
Misc : WG1248703,ICAL15507,VPH-75
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jun 14 12:12:59 2019
Quant Method : I:\VOLATILES_GC\LVPH\2019\190612Aali\svph-ali190213B.m
Quant Title : VPH ALIPHATIC
QLast Update : Fri Feb 15 11:27:29 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Sub List : Default - All compounds listed



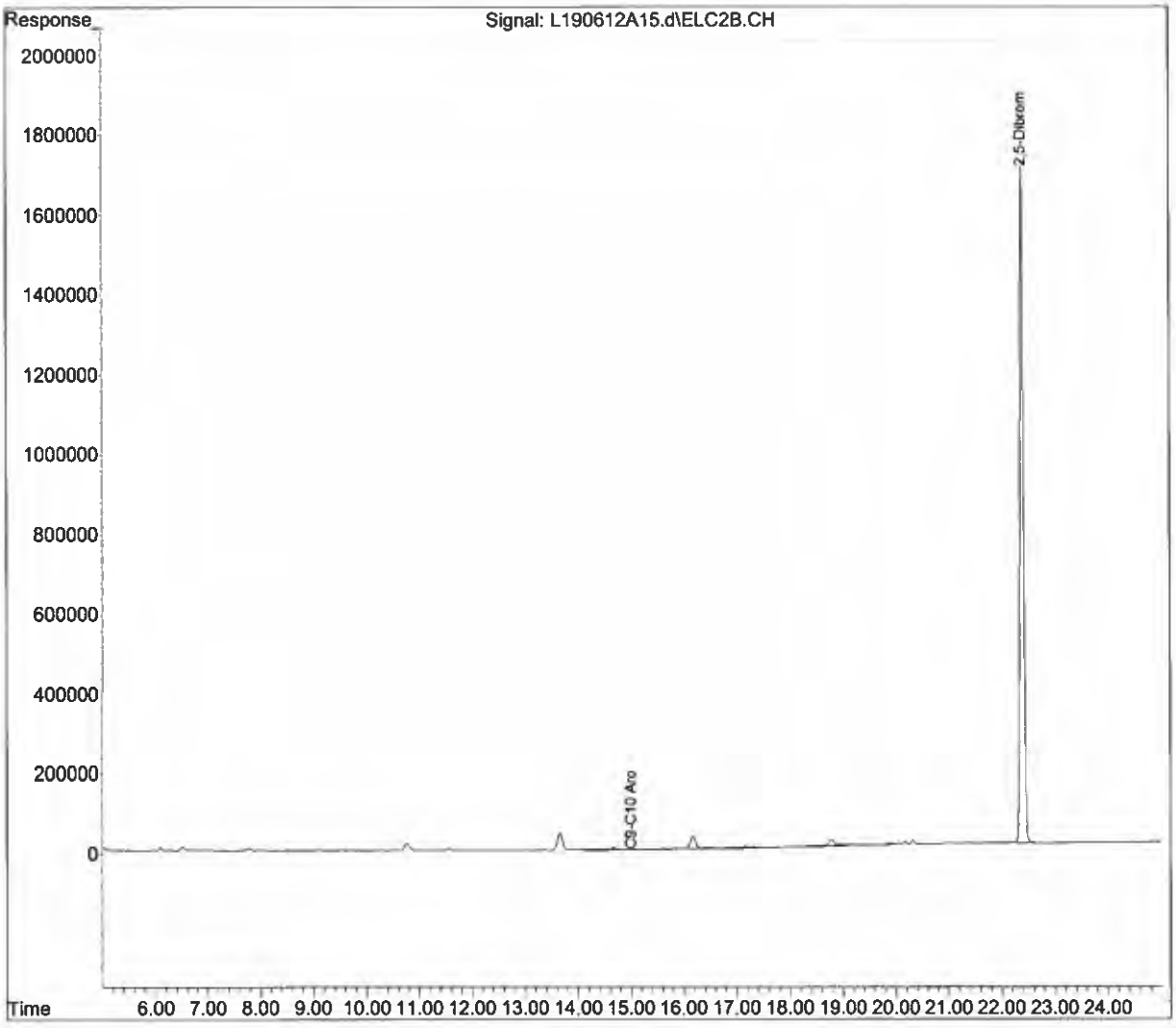
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES_GC\LVPH\2019\190612Aaro\
Data File : L190612A15.d
Signal(s) : ELC2B.CH
Acq On : 12 Jun 2019 3:10 pm
Operator : LVPH:BAD
Sample : 11924143-07,41,15,7.23,0.100,,a
Misc : WG1248703,ICAL15508,VPH-75
ALS Vial : 0 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jun 14 13:55:30 2019
Quant Method : I:\VOLATILES_GC\LVPH\2019\190612Aaro\svph-aro190213B.m
Quant Title : VPH AROMATIC
QLast Update : Thu Feb 14 09:29:39 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Sub List : Default - All compounds listed



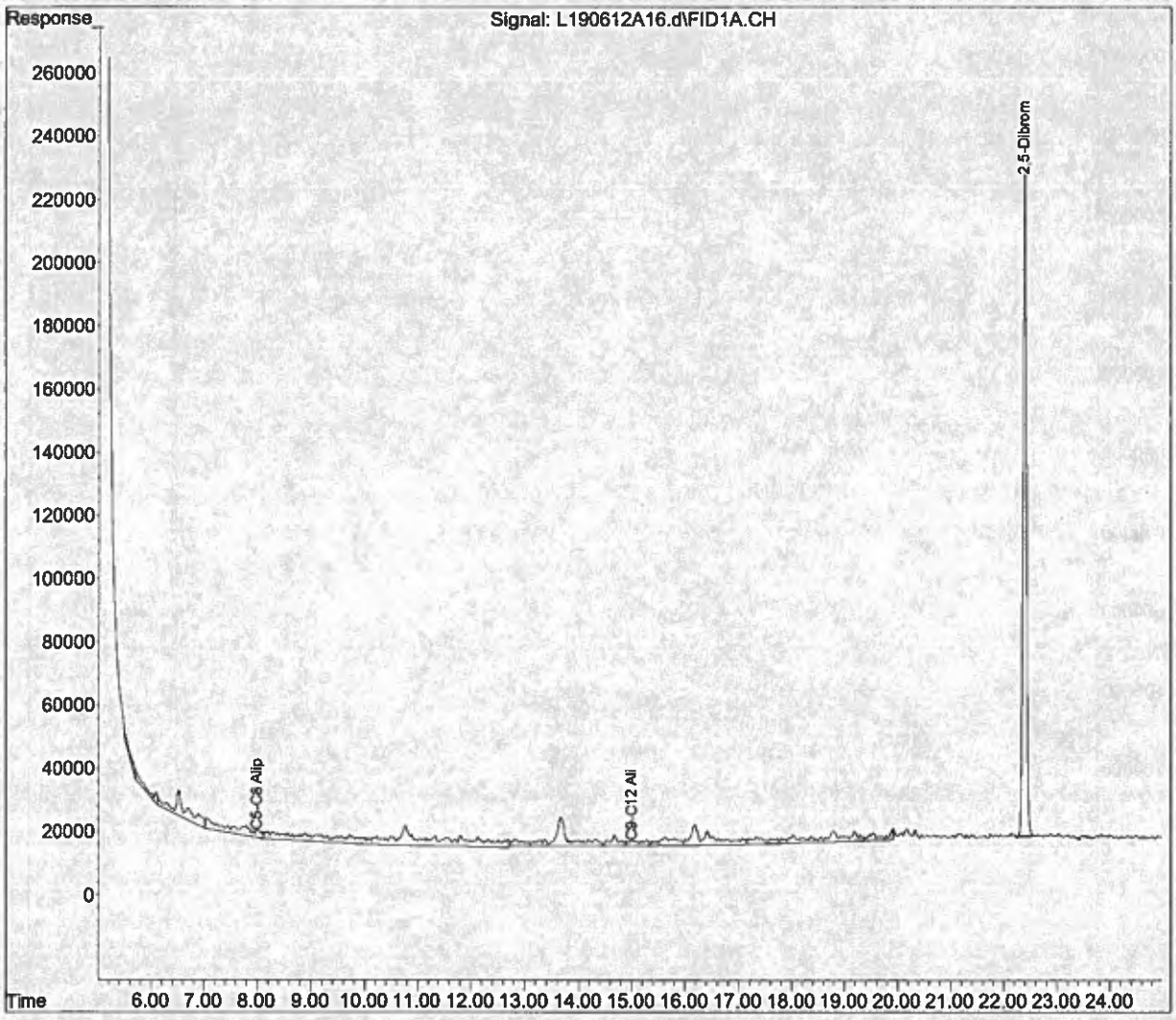
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES_GC\LVPH\2019\190612Aali\
Data File : L190612A16.d
Signal(s) : FID1A.CH
Acq On : 12 Jun 2019 3:41 pm
Operator : LVPH:BAD
Sample : l1924143-08,41,15,5.48,0.100,,a
Misc : WG1248703,ICAL15507,VPH-75
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jun 14 12:14:32 2019
Quant Method : I:\VOLATILES_GC\LVPH\2019\190612Aali\svph-ali190213B.m
Quant Title : VPH ALIPHATIC
QLast Update : Fri Feb 15 11:27:29 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Sub List : Default - All compounds listed



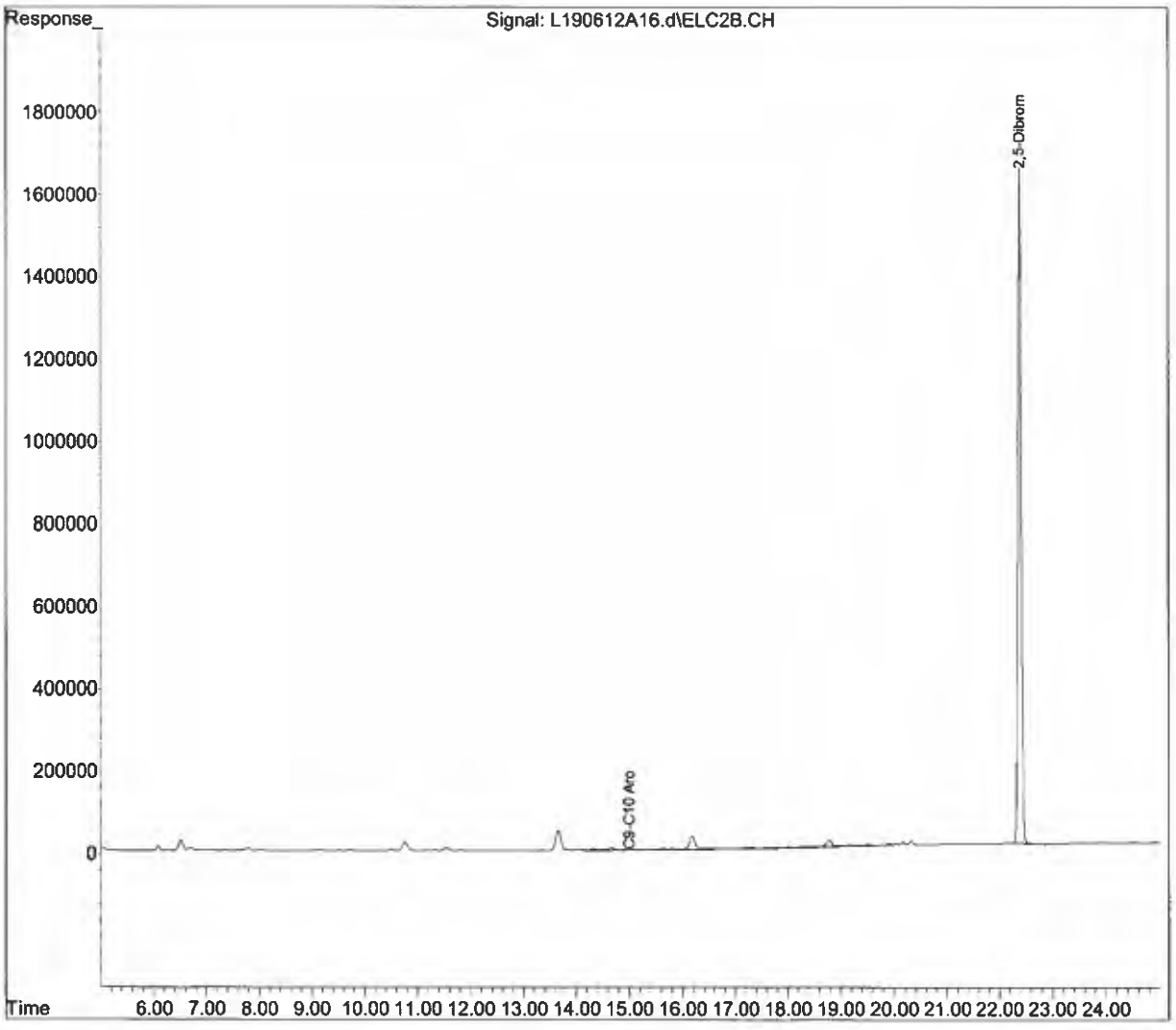
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES_GC\LVPH\2019\190612Aaro\
Data File : L190612A16.d
Signal(s) : ELC2B.CH
Acq On : 12 Jun 2019 3:41 pm
Operator : LVPH:BAD
Sample : l1924143-08,41,15,5.48,0.100,,a
Misc : WG1248703,ICAL15508,VPH-75
ALS Vial : 0 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jun 14 13:56:11 2019
Quant Method : I:\VOLATILES_GC\LVPH\2019\190612Aaro\svph-aro190213B.m
Quant Title : VPH AROMATIC
QLast Update : Thu Feb 14 09:29:39 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

Sub List : Default - All compounds listed

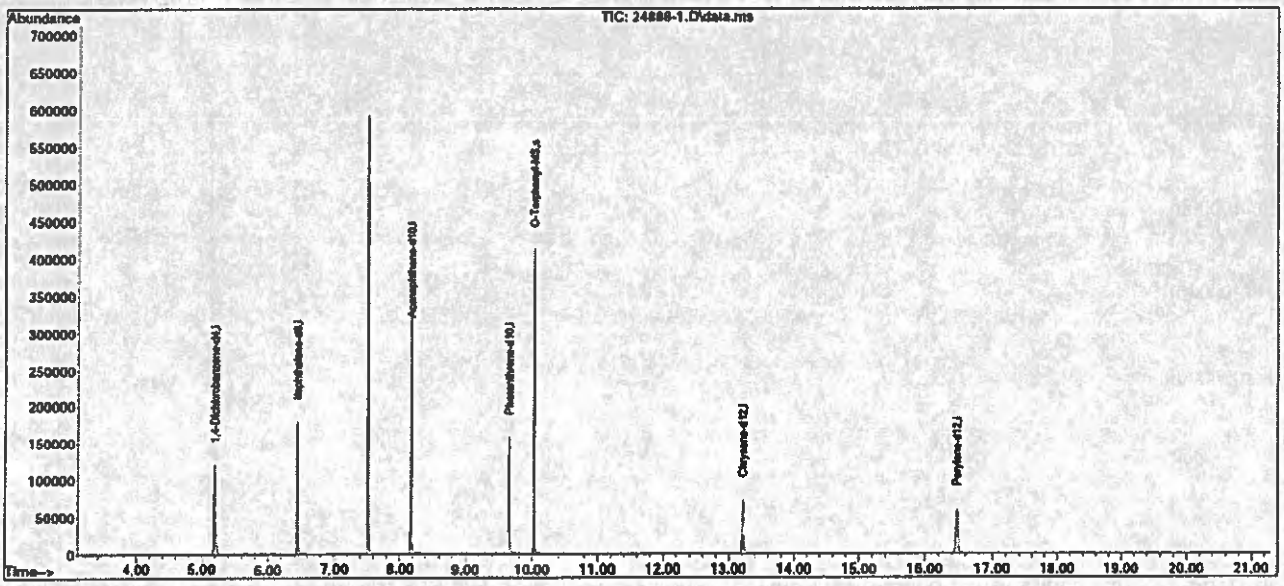


Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\Dakota\190618\
Data File : 24888-1.D
Acq On : 18 Jun 2019 8:53 am
Operator : dakota:dv
Sample : wg1248881-1,32,,eph,cb
Misc : wg1249783,wg1248881,ical15747
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 18 14:55:22 2019
Quant Method : I:\8270SIM\Dakota\190618\sim190430dakota.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 11 11:21:05 2019
Response via : Initial Calibration

Sub List : EPH_SIM - EPH_SIMkota\190618\ccv0618.D•

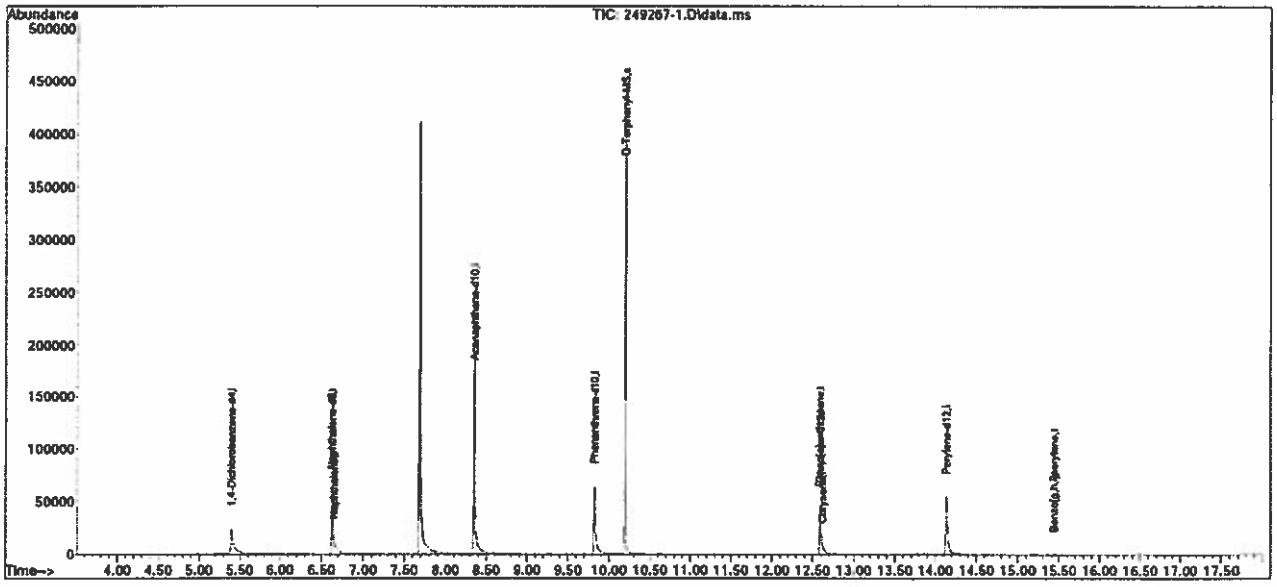


Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\Mork\190618\
Data File : 249267-1.D
Acq On : 18 Jun 2019 8:50 am
Operator : Mork:cb
Sample : wg1249267-1,32,,eph,cb
Misc : wg1249765,wg1249267,ical15762
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 18 11:42:15 2019
Quant Method : I:\8270SIM\Mork\190618\sim190503mork.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 08 09:52:53 2019
Response via : Initial Calibration

Sub List : EPH_SIM - EPH_SIMrk\190618\ccv0618.D*



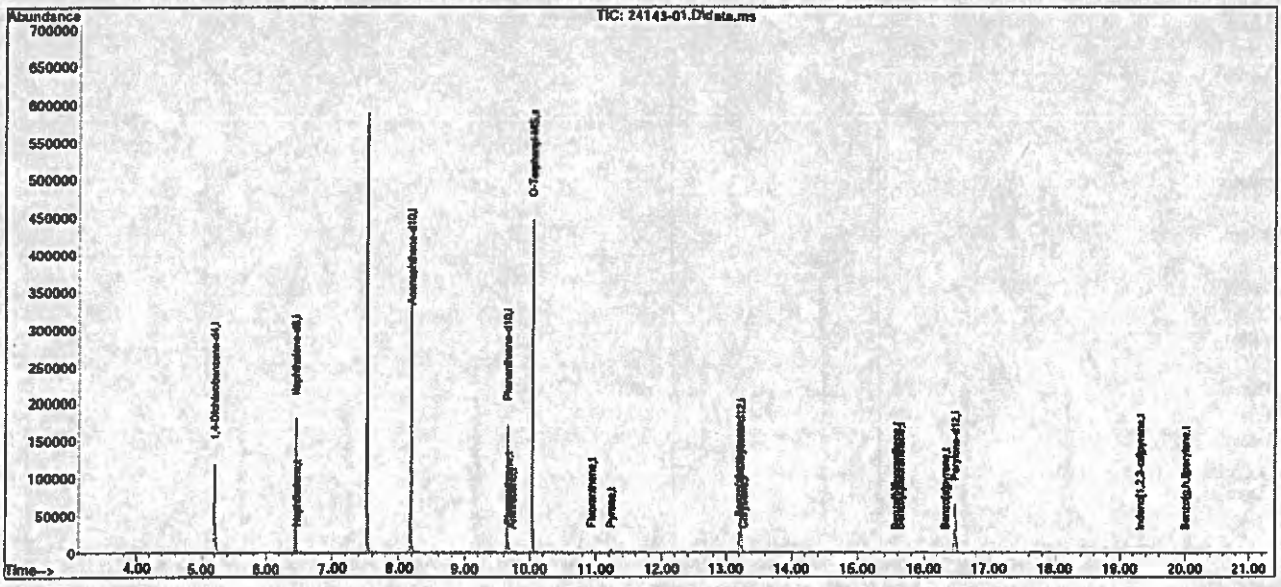
sim190503mork.M Tue Jun 18 11:43:09 2019 Page: 2

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\Dakota\190618\
Data File : 24143-01.D
Acq On : 18 Jun 2019 3:42 pm
Operator : dakota:cb
Sample : 11924143-01,32,,eph,cb
Misc : wg1249783,wg1248881,ical15747
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 19 08:54:35 2019
Quant Method : I:\8270SIM\Dakota\190618\sim190430dakota.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 11 11:21:05 2019
Response via : Initial Calibration

Sub List : EPH_SIM - EPH_SIMkota\190618\ccv0618.D•

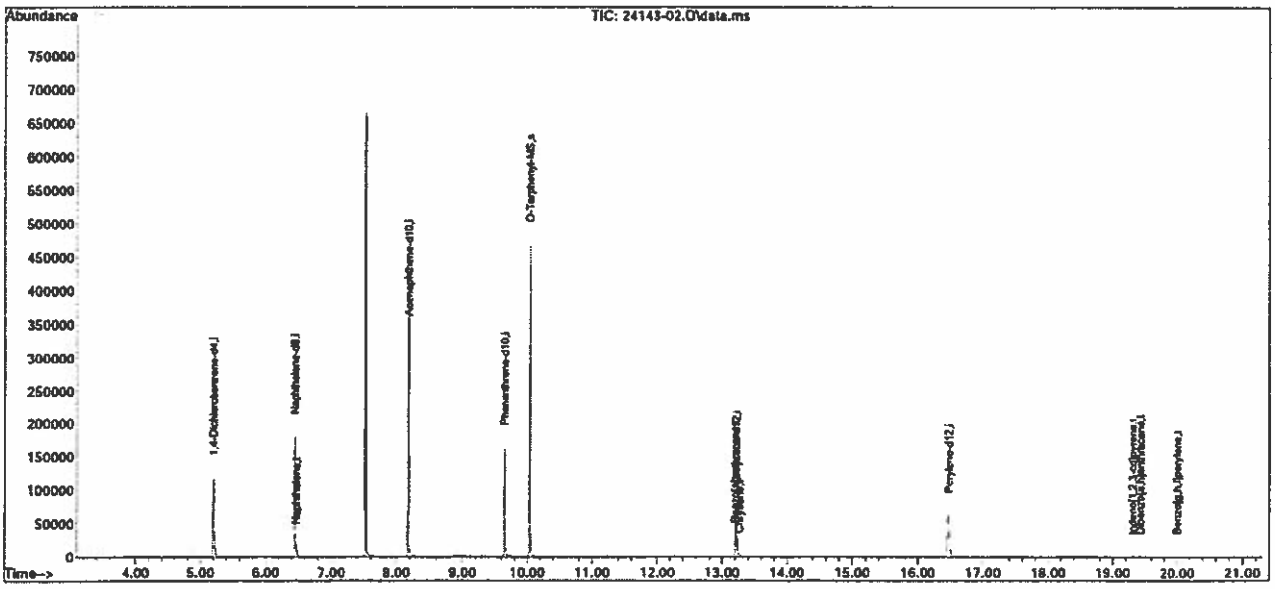


Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\Dakota\190618\
Data File : 24143-02.D
Acq On : 18 Jun 2019 4:12 pm
Operator : dakota:cb
Sample : 11924143-02,32,,eph,cb
Misc : wg1249783,wg1248881,ical15747
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 19 08:55:03 2019
Quant Method : I:\8270SIM\Dakota\190618\sim190430dakota.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 11 11:21:05 2019
Response via : Initial Calibration

Sub List : EPH_SIM - EPH_SIMkota\190618\ccv0618.D*

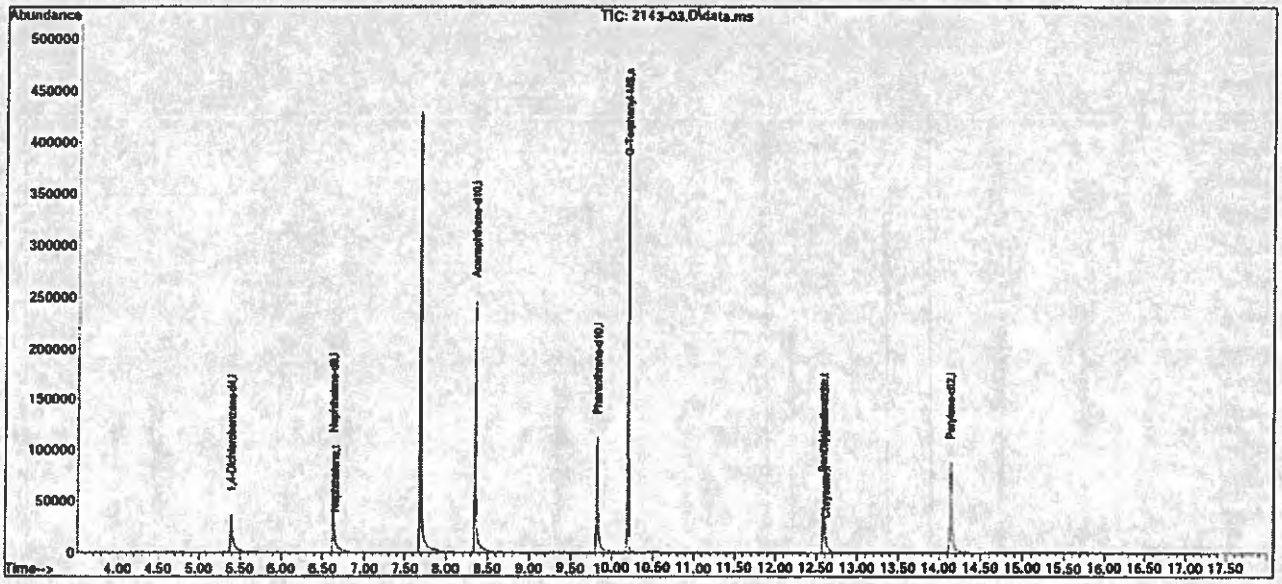


Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\Mork\190618\
Data File : 2143-03.D
Acq On : 18 Jun 2019 1:39 pm
Operator : Mork:dv
Sample : 11924143-03,32,,eph,cb
Misc : wg1249765,wg1249267,ical15762
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 18 14:44:47 2019
Quant Method : I:\8270SIM\Mork\190618\sim190503mork.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 08 09:52:53 2019
Response via : Initial Calibration

Sub List : EPH_SIM - EPH_SIMrk\190618\ccv0618.D*

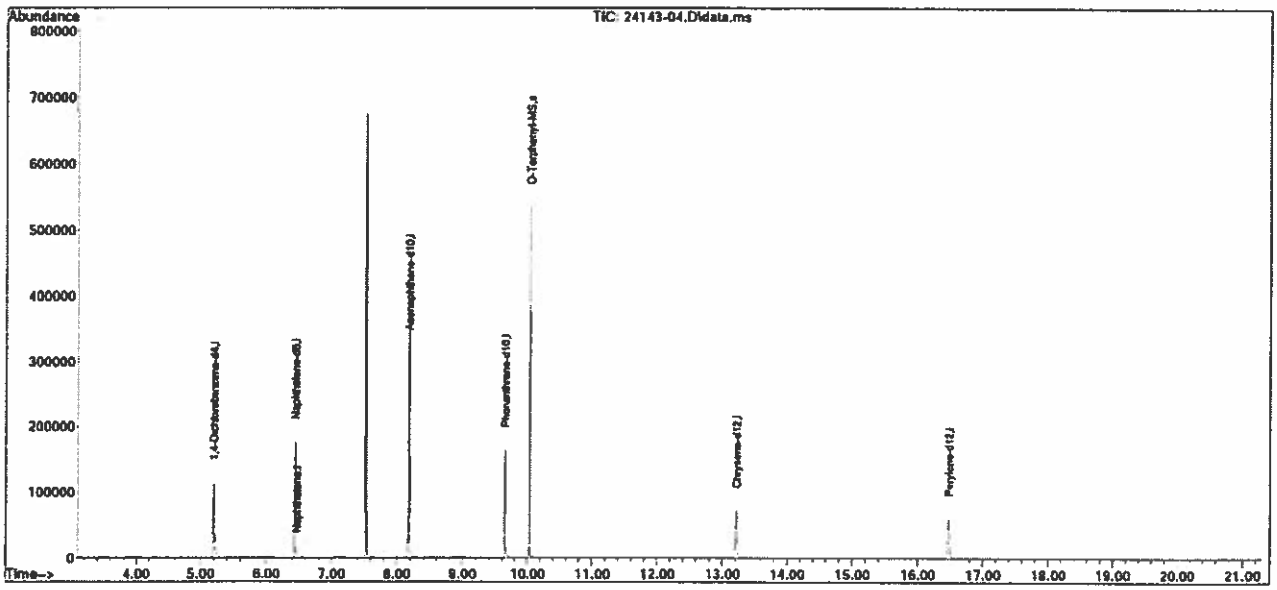


Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\Dakota\190618\
Data File : 24143-04.D
Acq On : 18 Jun 2019 4:42 pm
Operator : dakota:cb
Sample : 11924143-04,32,,eph,cb
Misc : wg1249783,wg1248881,ical15747
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 19 08:52:32 2019
Quant Method : I:\8270SIM\Dakota\190618\sim190430dakota.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 11 11:21:05 2019
Response via : Initial Calibration

Sub List : EPH_SIM - EPH_SIMkota\190618\ccv0618.D

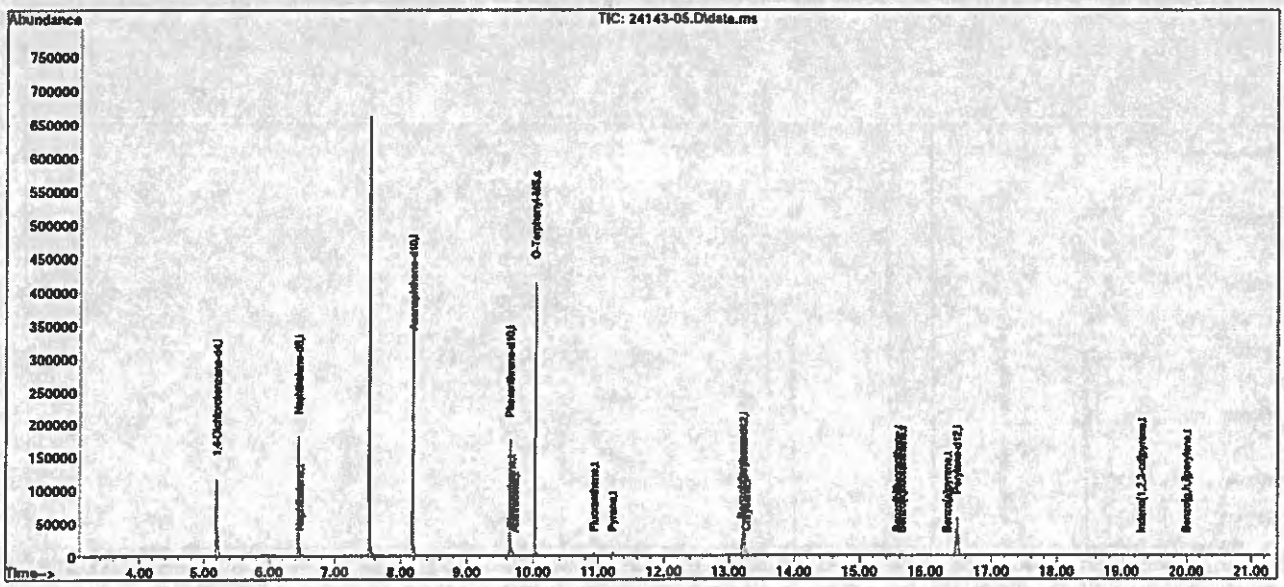


Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\Dakota\190618\
Data File : 24143-05.D
Acq On : 18 Jun 2019 5:11 pm
Operator : dakota:cb
Sample : 11924143-05,32,,eph,cb
Misc : wg1249783,wg1248081,ical15747
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 19 08:55:54 2019
Quant Method : I:\8270SIM\Dakota\190618\sim190430dakota.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 11 11:21:05 2019
Response via : Initial Calibration

Sub List : EPH_SIM - EPH_SIMkota\190618\ccv0618.D•

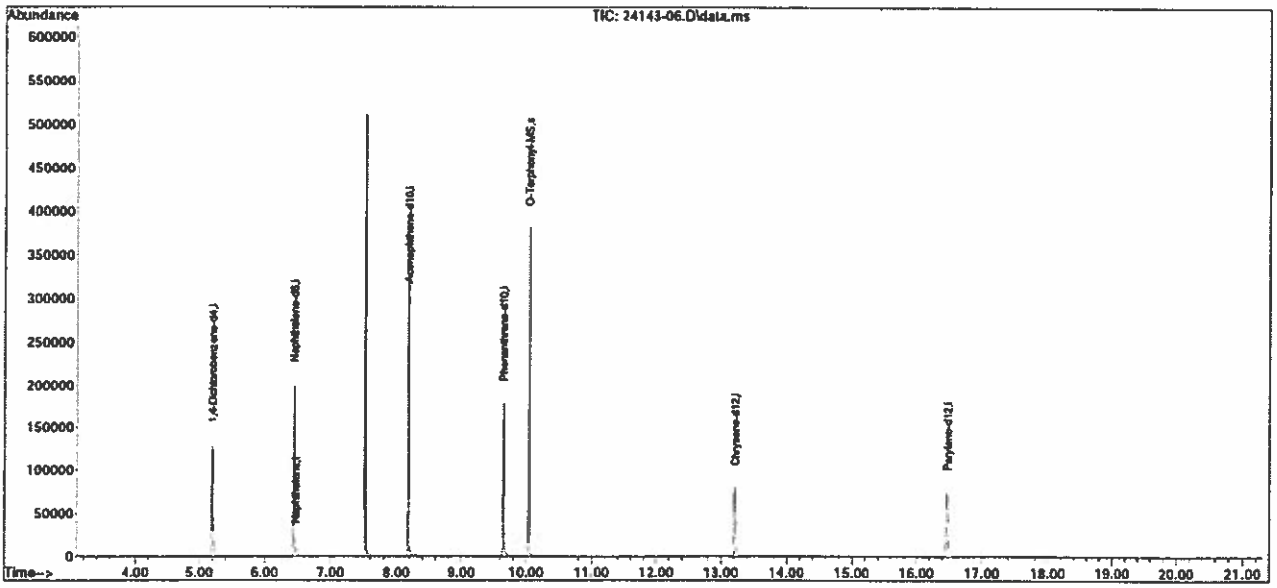


Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\Dakota\190618\
Data File : 24143-06.D
Acq On : 18 Jun 2019 5:41 pm
Operator : dakota:cb
Sample : 11924143-06,32,,eph,cb
Misc : wg1249783,wg1248881,ical15747
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 19 08:52:38 2019
Quant Method : I:\8270SIM\Dakota\190618\sim190430dakota.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 11 11:21:05 2019
Response via : Initial Calibration

Sub List : EPH_SIM - EPH_SIMkota\190618\ccv0618.D•

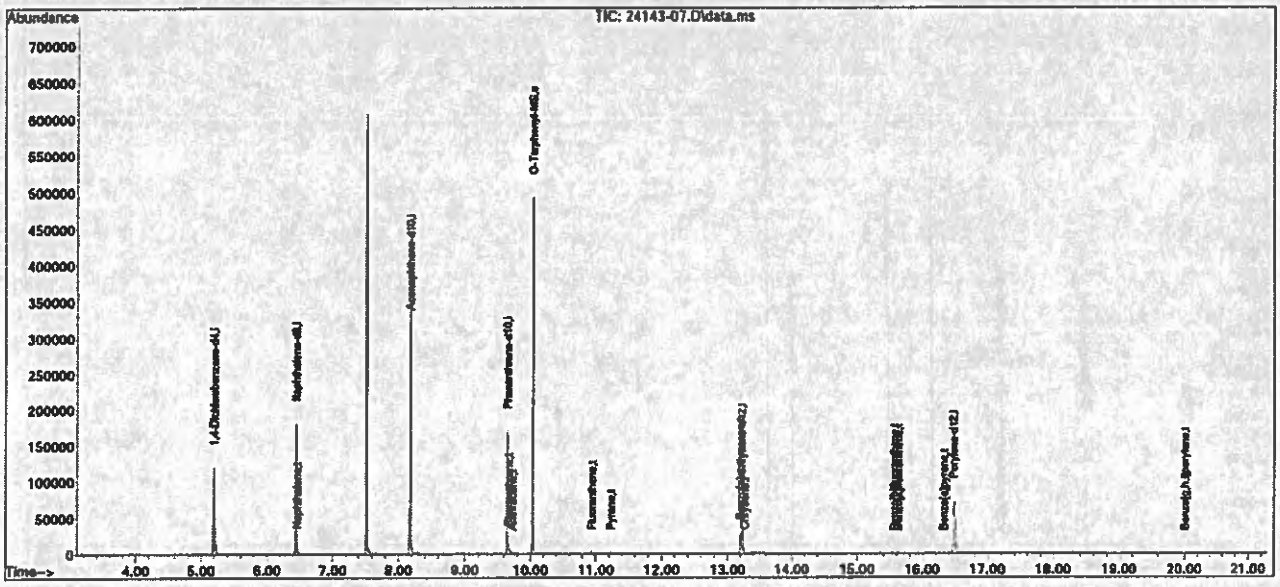


Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\Dakota\190618\
Data File : 24143-07.D
Acq On : 18 Jun 2019 6:11 pm
Operator : dakota:cb
Sample : 11924143-07,32,,eph,cb
Misc : wg1249783,wg1248881,ical15747
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 19 08:56:55 2019
Quant Method : I:\8270SIM\Dakota\190618\sim190430dakota.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 11 11:21:05 2019
Response via : Initial Calibration

Sub List : EPH_SIM - EPH_SIMkota\190618\ccv0618.D*

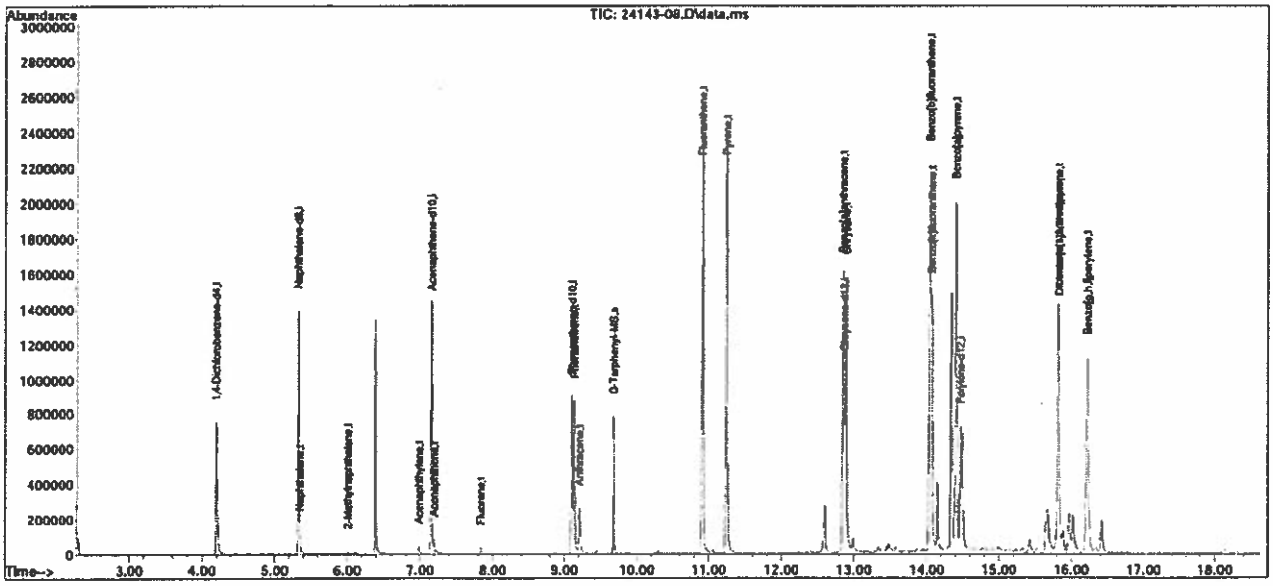


Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\Mindy\190619\
Data File : 24143-08.D
Acq On : 19 Jun 2019 10:51 am
Operator : mindy:cb
Sample : 11924143-08d,32,5,eph,jjw
Misc : wg1250377,wg1248881,ical15672
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 19 12:37:14 2019
Quant Method : I:\8270SIM\Mindy\190619\sim190617mindy.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 10:42:33 2019
Response via : Initial Calibration

Sub List : EPH_SIM - EPH_SIMndy\190619\CCV0619.D*

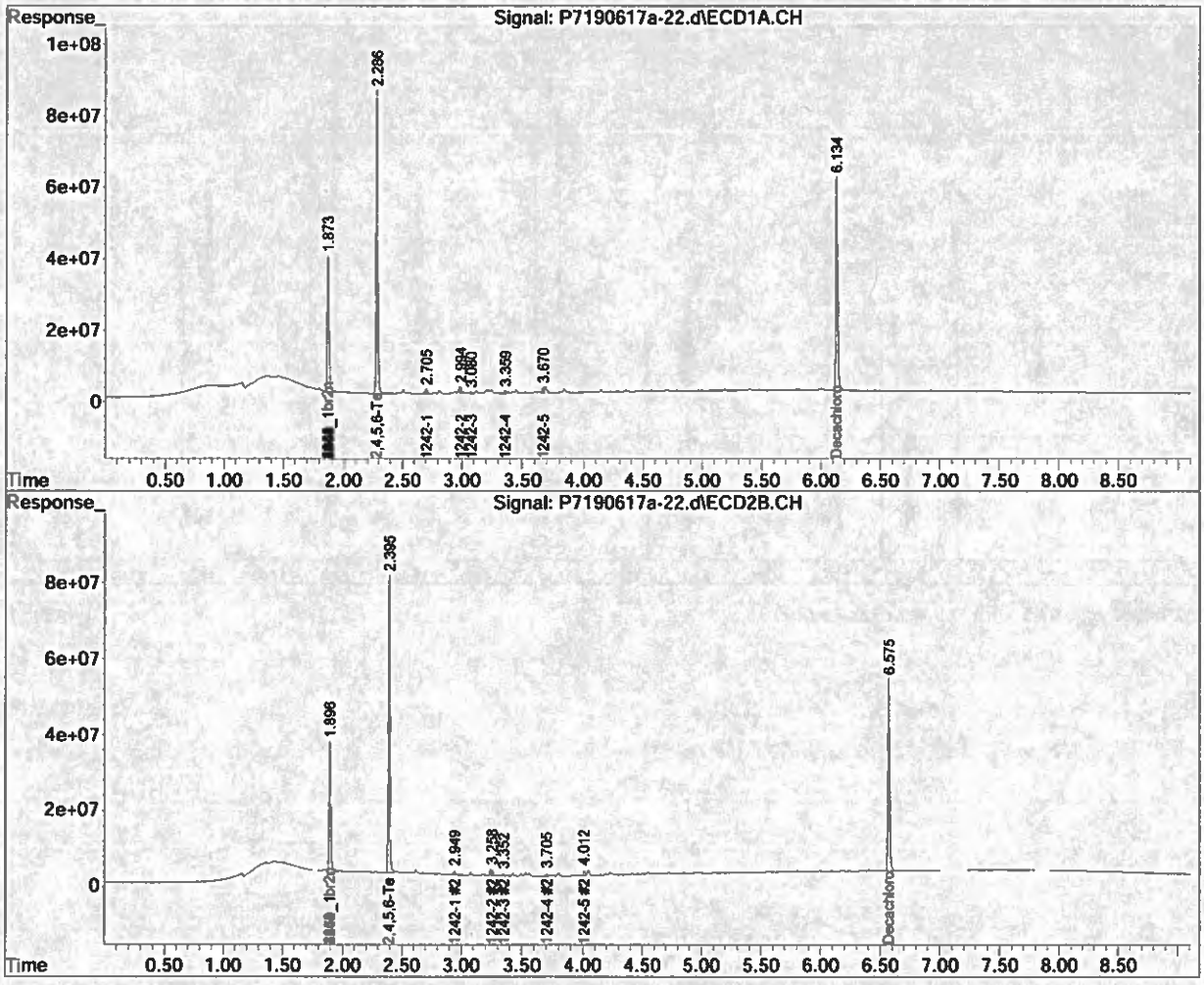


```
Sub List      : Default - All compounds listed-21.d••ed)

Data Path : I:\Pest7\190617A\
Data File : P7190617a-22.d
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
Acq On    : 17 Jun 2019   8:31 pm
Operator  : pest7:ht
Sample    : wg1248941-1,42e,,
Misc      : wg1249413,wg1248941,ical14857
ALS Vial  : 22 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 22:29:45 2019
Quant Method : I:\Pest7\190617A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title  : pcb
QLast Update : Fri Jun 14 01:00:52 2019
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

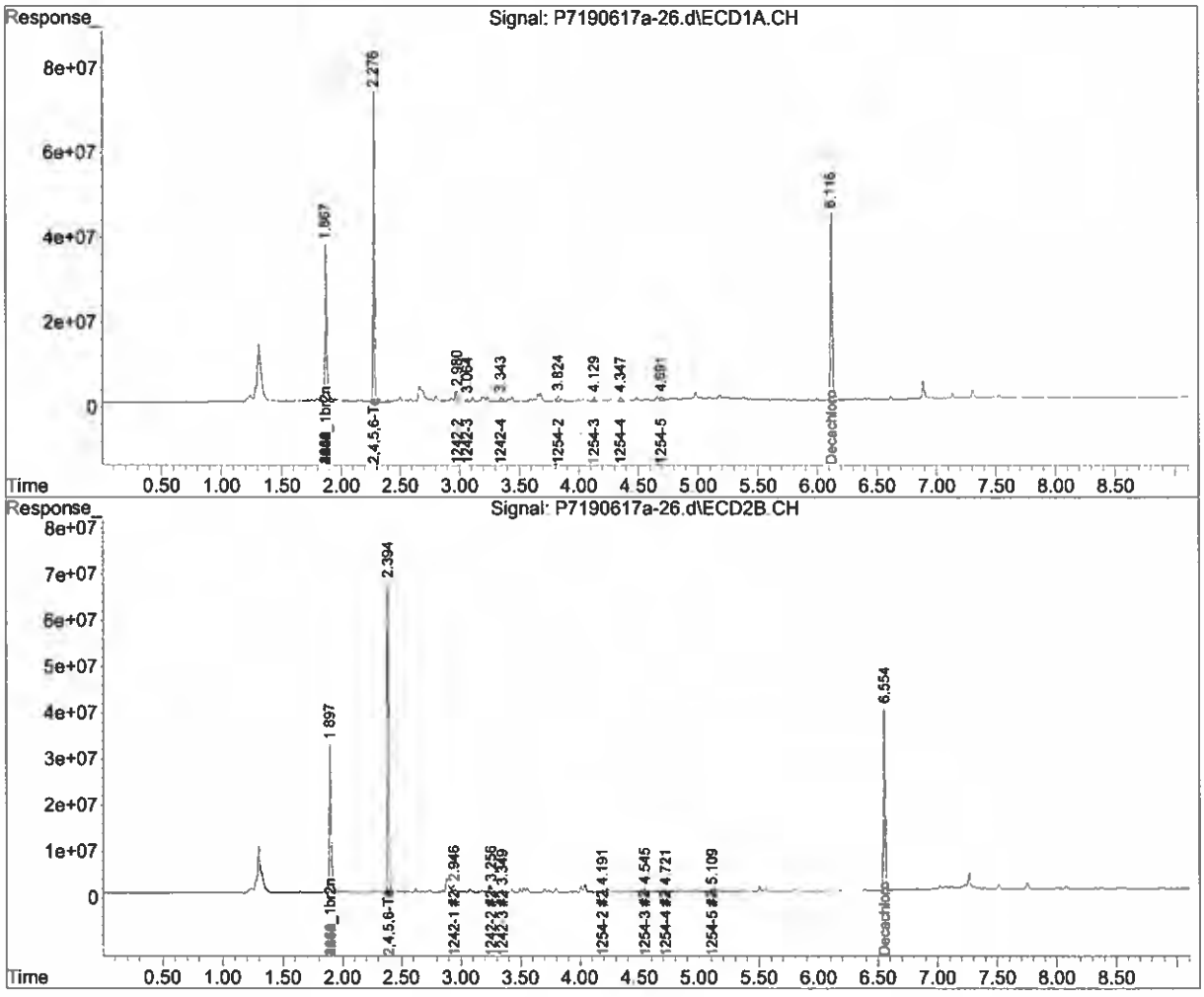


```
Sub List      : Default - All compounds listed-21.d••ed)

Data Path : I:\Pest7\190617A\
Data File : P7190617a-26.d
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
Acq On    : 17 Jun 2019   9:22 pm
Operator  : pest7:ht
Sample    : 11924143-01,42e,,
Misc      : wg1249413,wg1248941,ical14857
ALS Vial  : 26 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 22:34:25 2019
Quant Method : I:\Pest7\190617A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title  : pcb
QLast Update : Fri Jun 14 01:00:52 2019
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

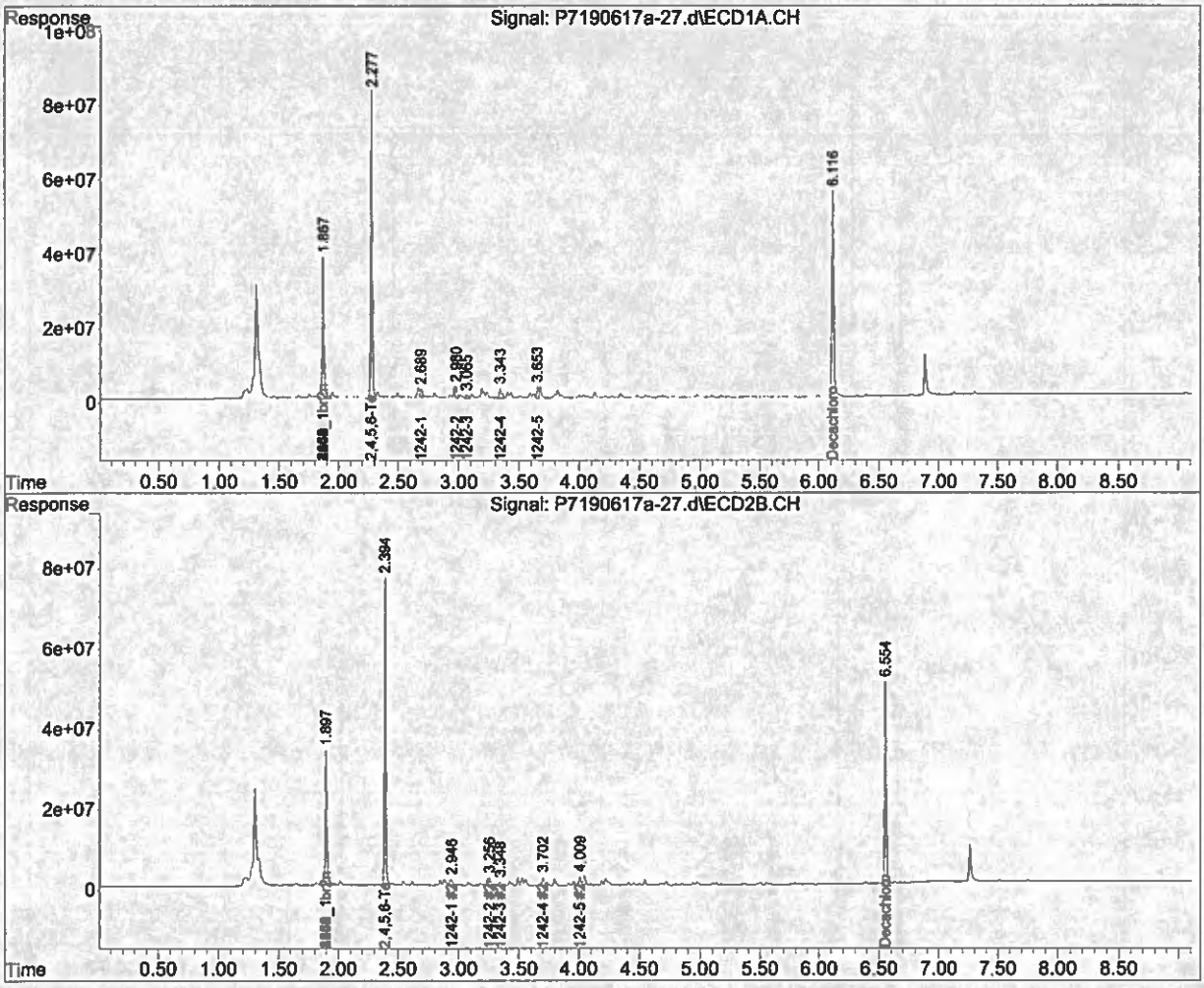


```
Sub List      : Default - All compounds listed-21.d••ed)

Data Path : I:\Pest7\190617A\
Data File : P7190617a-27.d
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
Acq On    : 17 Jun 2019   9:35 pm
Operator  : pest7:ht
Sample    : l1924143-02,42e,,
Misc      : wg1249413,wg1248941,ical14857
ALS Vial  : 27 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 22:36:02 2019
Quant Method : I:\Pest7\190617A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title  : pcb
QLast Update : Fri Jun 14 01:00:52 2019
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



```
Sub List     : Default - All compounds listed-21.d••ed)

Data Path : I:\Pest7\190617A\
Data File : P7190617a-28.d
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
Acq On    : 17 Jun 2019    9:48 pm
Operator  : pest7:ht
Sample    : l1924143-03,42e,,
Misc      : wg1249413,wg1248941,ical14857
ALS Vial  : 28 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 22:37:20 2019
Quant Method : I:\Pest7\190617A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title  : pcb
QLast Update : Fri Jun 14 01:00:52 2019
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```