

January 29, 2021

Mr. Sadique Ahmed
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, New York 12233
Email: sadique.ahmed@dec.ny.gov

**RE: Interim Remedial Measure Construction Completion Report
Rockfarmer 37th Avenue
82-13 37th Avenue
Jackson Heights, Queens County, New York 11372
Block 1456, Lots 35 & 41
Brownfield Cleanup Program Site No. C241212
VERTEX Project Number: 48122**

Dear Mr. Ahmed:

Vertex Engineering, PC (VERTEX) is pleased to submit this Interim Remedial Measure (IRM) Construction Completion Report (CCR) for the Rockfarmer 37th Avenue property located at 82-13 37th Avenue in Jackson Heights, Queens County, New York (the Site). The Volunteers (37th Owner LLC; Horizon 37th Ave, LLC; and RFC Ketcham 37th Ave, LLC) are participating in the New York State Brownfield Cleanup Program (BCP) pursuant to a Brownfield Cleanup Agreement (BCA) executed on July 25, 2018. The site is identified with Site No. C241212.

1.0 Site Description

The Site consists of two contiguous parcels identified as Block 1456, Lots 35 and 41. The approximate site area is 20,000 square feet (0.46 acres), which is divided equally between the two lots. A Site Location Map is provided as Figure 1.

The site is improved with an approximately 108,000-square foot (above-grade), nine-story commercial office building, with ground-floor retail (Rite Aid, nail salon, and vacant space) and a two-level parking garage. The site building is improved with a basement, which is occupied by office space, utility rooms, and storage space. The site building is serviced by municipal water (New York City Department of Environmental Protection (NYCDEP)), municipal sanitary and storm sewer (NYCDEP), natural gas (Consolidated Edison), and electric (Consolidated Edison). The

building footprint covers the entire site, and is surrounded to the south, east, and west by public sidewalks and roadways and to the north are residential structures.

2.0 Background

VERTEX submitted a Remedial Action Work Plan (RAWP) on August 4, 2020. In response to the RAWP, the New York State Department of Environmental Conservation (NYSDEC) and New York State Department of Health (NYSDOH) issued comments via a letter dated September 3, 2020 and additional comments via email on September 8, 2020.

In August/September 2020, the Volunteers were conducting interior renovations at the Site to accommodate new tenant occupancy. The related demolition of the existing finishes in the basement allowed access to the Site building slab in the planned path of the sub-slab depressurization system (SSDS) that has been proposed as a component of the RAWP. This afforded VERTEX the opportunity to complete a Supplemental Pre-Design Investigation (SPDI) and IRM in accordance with the September 2020 NYSDEC/NYSDOH RAWP comments.

The IRM Work Plan was submitted to the NYSDEC via email and approved by the NYSDEC on September 11, 2020. A letter report, entitled Supplemental Pre-Design Investigation Work Plan, which included the IRM Work Plan, was submitted to the NYSDEC/NYSDOH on September 16, 2020. The scope of work included, among the proposed remedial actions, the removal of soils exhibiting the elevated presence of tetrachloroethene (PCE) at soil sample location RF-9. Soil sample RF-9 was collected during the remedial investigation (RI) activities in February 2019, at a depth of 1.5 to 2.0 feet below the basement slab. The sample location is depicted on Figure 2.

The proposed IRM Fact Sheet was issued by the NYSDEC for public comment from September 23 through October 23, 2020. No public comments were received.

3.0 IRM Activities

The objective of the IRM was to remediate soil contamination identified at soil sample location RF-9, which was confirmed to have a PCE detection of 1.4 milligrams per kilogram (mg/kg), which exceeds the NYSDEC Unrestricted Use Soil Cleanup Objective (UUSCO) and NYSDEC Restricted Use Soil Cleanup Objective – Protection of Groundwater (RUSCO-GW) of 1.3 mg/kg. Photographs of the IRM activities are included as an attachment to this report.

3.1 Soil Excavation

On September 27, 2020, VERTEX directed the remedial contractor (Clean Globe Environmental (Clean Globe) of Brentwood, New York) to conduct soil excavation activities at the former RF-9 sampling location. The excavation location is depicted on Figure 2. Remedial activities were performed in full compliance with applicable health and safety laws and regulations, including Occupational Safety & Health Administration (OSHA) worker safety and Hazardous Waste Operations and Emergency Response (HAZWOPER) requirements, as well as the site-specific

Health and Safety Plan (HASP). During the limited soil excavation activities, a Community Air Monitoring Plan (CAMP) was implemented.

Upon removal of a portion of the concrete slab, Clean Globe was instructed to excavate an area approximately 2.0 feet by 2.0 feet by 3.0 feet deep. Excavated soils were placed into a 55-gallon steel drum. The drum was labeled and stored inside a secured loading dock at the Site, pending off-site disposal. The soils encountered consisted of historic fill material (silts and sands with trace amounts of concrete and brick). Groundwater was not encountered during the IRM activities; therefore, no dewatering was required. Visual, olfactory, and photoionization detector (PID) screening of the excavation spoils was completed by VERTEX. PID readings ranged from 0.0 to 1.4 part per million (ppm), and no visual or olfactory evidence of a release was noted. Upon completion, the limits of the excavation in all directions were confirmed to have exhibited no PID readings above background.

Equipment was operated in accordance with the manufacturer's specifications, including calibration of all field instruments, which was performed prior to the initiation of field work and on a schedule indicated by the manufacturer.

3.2 Post-Excavation Soil Sampling

To confirm the protectiveness of the soil remediation, a post-excavation soil sample was collected from the base of the excavation. The soil sample collected exhibited a PID reading of 0.0 ppm. The post-excavation soil sample (RF-9-PX) was collected at 3.0-3.5 feet below the basement slab.

The sampling was conducted in accordance with NYSDEC *DER-10 Technical Guidance for Site Investigation and Remediation*, dated May 3, 2010, and Sampling Guidelines and Protocols, dated March 1991. Disposable nitrile gloves were worn during the soil screening process and sample collection. The soil sample was collected in dedicated laboratory-provided Encore samplers and laboratory-provided containers.

Following the soil sample collection, the sample containers were secured, labeled, and placed in a storage/transportation cooler and cooled to acceptable temperatures (e.g., four degrees Celsius) with ice. Samples were transported by a field courier to the laboratory following proper chain of custody procedures. The courier relinquished custody to the log-in sample custodian upon arrival at the laboratory.

The soil sample was submitted to Alpha Analytical, Inc. (Alpha) in Westborough, Massachusetts (New York Environmental Laboratory Approval Program (ELAP) No. 11627) for volatile organic compound (VOC) analysis via United States Environmental Protection Agency (USEPA) Method 8260.

3.3 Post-Excavation Soil Analytical Results

The VOC scan detected only three compounds above the method detection limit (MDL); acetone, 2-butanone (methyl ethyl ketone), and PCE. The results of the post-excavation soil sample analysis were compared to the NYSDEC Restricted Use Soil Cleanup Objective (SCOs) for Industrial Use (RUSCO-I), for Commercial Use (RUSCO-C), for Restricted Residential Use (RUSCO-RR), Residential Use (RUSCO-R), and for Unrestricted Use (UUSCO). Review of the soil analytical results identified the following compound in excess of a SCO:

CONSTITUENTS IN SOIL SAMPLES IN EXCESS OF SCOs						
Sample Location	Sample Depth ⁽¹⁾	Constituents >RUSCO-I	Constituents >RUSCO-C	Constituents >RUSCO-RR	Constituents >RUSCO-R	Constituents >UUSCO
RF-9-PX	3.0-3.5	None	None	None	None	Acetone

(1) Feet below basement slab

Review of the post-excavation soil analytical data identified no VOCs exceeding the NYSDEC SCOs, except for acetone. Acetone was detected at 0.055 mg/kg, exceeding only the UUSCO of 0.05 mg/kg. PCE was detected at 0.00074 mg/kg; four orders of magnitude below the most stringent SCO. The low-level detections of acetone and 2-butanone are expected to be a result of laboratory contamination.

Table 1 summarizes the September 2020 post-excavation soil sampling results. The laboratory data package for the post-excavation soil sampling is provided as an attachment.

3.4 Site Restoration

The excavation was backfilled with ¾-inch quarry stone, the concrete basement slab was restored, and the area was cleaned. Photographs of the restoration activities are included as an attachment.

3.5 Drum and Refuse Disposal

VERTEX coordinated for the removal and disposal of one drum of non-hazardous soil from the Site. On September 30, 2020, the drum was transported off-site to Republic Environmental Systems (PA), LLC in Hatfield, Pennsylvania for disposal as non-hazardous waste. A copy of the drum disposal manifest is included as an attachment.

Disposable sampling equipment including, spoons, gloves, bags, paper towels, etc. that came in contact with environmental media was double bagged and disposed as municipal trash in a facility trash dumpster as general refuse.

4.0 Conclusions

An IRM, consisting of a limited soil excavation to remediate the elevated detection of PCE at soil sample location RF-9 was completed in September 2020. The work was conducted by VERTEX and their contractor under the guidance of the NYSDEC.

The elevated PCE detection at RF-9 was identified at a depth of 1.5-2.0 feet below the basement slab; therefore, the remedial excavation was advanced to 3.0 feet below the basement slab. Field screening of the soils identified no evidence of a release (visual, olfactory, or elevated PID readings), and a post-excavation soil sample was collected when PID readings were confirmed to be 0.0 ppm. Review of the post-excavation soil results identified no VOC concentrations in exceedance of applicable NYSDEC SCOs, except for acetone, which slightly exceeded the UUSCO only. Acetone is a typical laboratory contaminant, and the low-level detection is expected to be a result of laboratory contamination. The impacted soil was properly manifested, transported, and disposed at an off-site facility. The excavation was backfilled with quarry stone and completed with concrete surface restoration.

Based on the above information, no further investigation or remediation is warranted for this area.

Please do not hesitate to contact us at your convenience should you have any questions or comments regarding this IRM Construction Completion Report.

Sincerely,

Vertex Engineering, PC



Richard J. Tobia, P.E.
Technical Director

Attachments:

- Figure 1 – Site Location Map
- Figure 2 – Soil Results and IRM Location Map
- Photo Log – IRM Activities
- Table 1 – Post-Excavation Soil Analytical Results
- Laboratory Report
- Drum Disposal Manifest

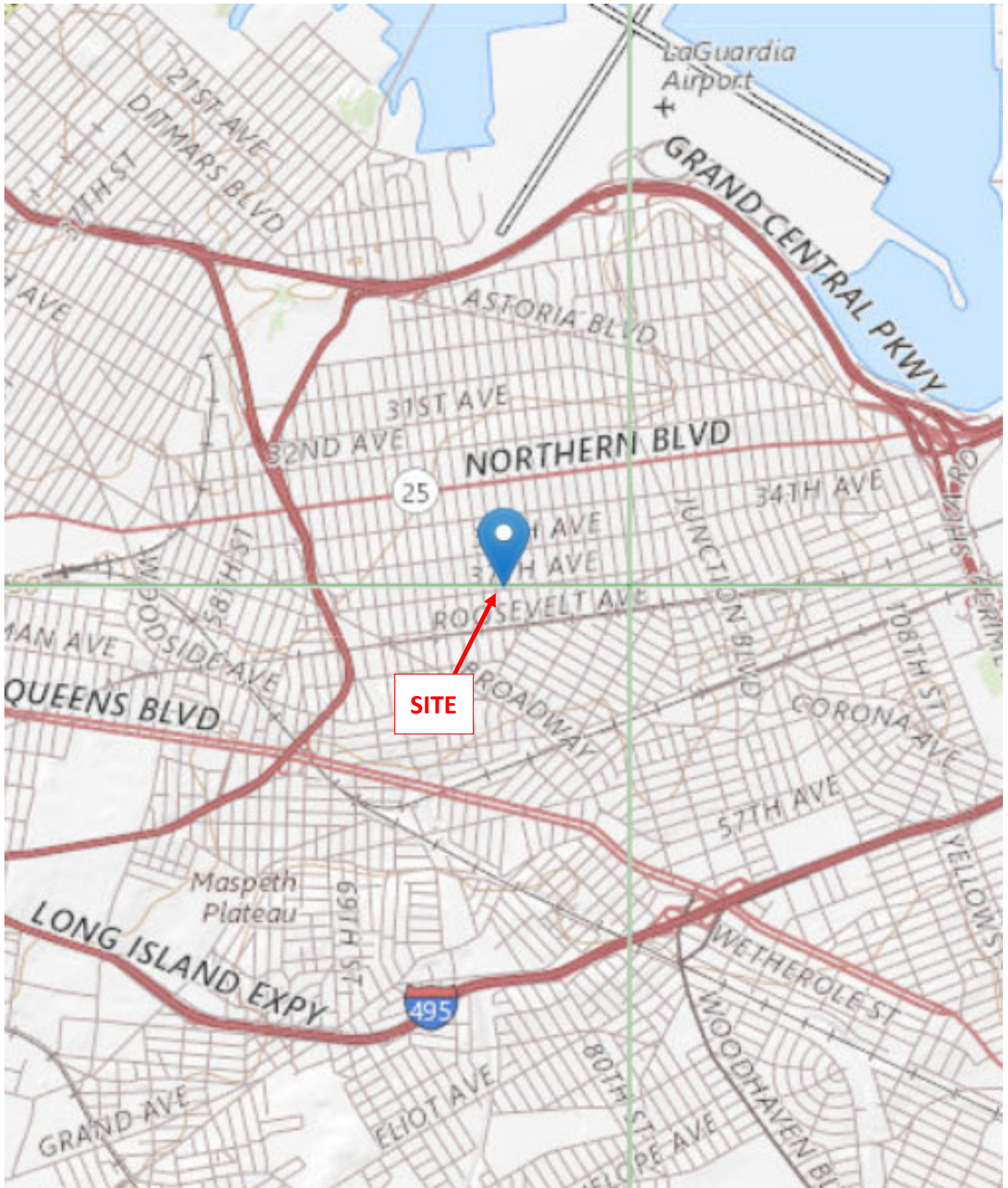
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Source: USGS, 2013
Brooklyn, NY Quadrangle
Contour Interval: 50 feet

SITE LOCATION MAP

82-13 37th Avenue
Jackson Heights, Queens County, New York

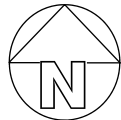
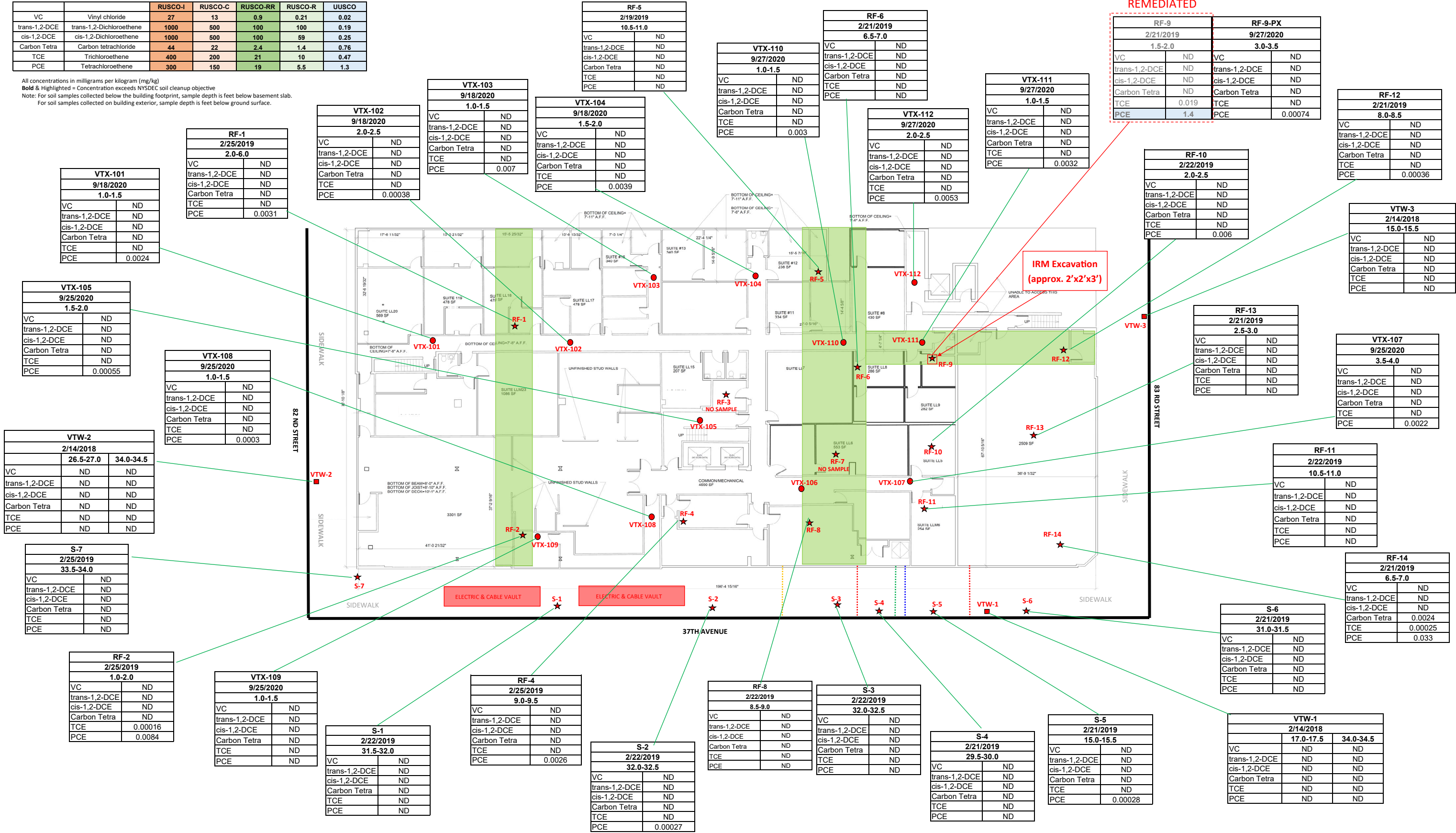
VERTEX Project No. 48122

VERTEX ENGINEERING, PC
147 West 35th Street, 19th Floor
New York, New York 10001

FIGURE NO. 1

		RUSCO-I	RUSCO-C	RUSCO-RR	RUSCO-R	UUSCO
VC	Vinyl chloride	27	13	0.9	0.21	0.02
trans-1,2-DCE	trans-1,2-Dichloroethene	1000	500	100	100	0.19
cis-1,2-DCE	cis-1,2-Dichloroethene	1000	500	100	59	0.25
Carbon Tetra	Carbon tetrachloride	44	22	2.4	1.4	0.76
TCE	Trichloroethene	400	200	21	10	0.47
PCE	Tetrachloroethene	300	150	19	5.5	1.3

All concentrations in milligrams per kilogram (mg/kg)
Bold & Highlighted = Concentration exceeds NYSDEC soil cleanup objective
Note: For soil samples collected below the building footprint, sample depth is feet below basement slab.
For soil samples collected on building exterior, sample depth is feet below ground surface.



Map Source: Existing Basement Floor Plan, Existing Conditions Surveys Inc., 11/30/2017

- SOIL BORING (SEPTEMBER 2020)
- SOIL BORING (MARCH 2018)
- ★ SOIL BORING (FEBRUARY 2019)

SOIL RESULTS AND IRM LOCATION MAP

82-13 37th AVENUE
JACKSON HEIGHTS, QUEENS COUNTY, NEW YORK

VERTEX ENGINEERING, PC
147 WEST 35TH STREET, 19TH FLOOR
NEW YORK, NEW YORK 10001

FIGURE NO. 2

VERTEX Project No. 48122

Photographic Documentation
IRM Activities – September 2020
Rockfarmer 37th Avenue – BCP Site No. C241212
VERTEX Project No. 48122



Photo #1: View of concrete slab removal.



Photo #2: Excavation completed with hand equipment.



Photo #3: Interior of excavation.



Photo #4: Excavation completed to 3.0 feet below slab.



Photo #5: Excavated materials stored in 55-gallon drum.



Photo #6: Non-hazardous drum of soil, which was disposed off-site on September 30, 2020.

Photographic Documentation
IRM Activities – September 2020
Rockfarmer 37th Avenue – BCP Site No. C241212
VERTEX Project No. 48122



Photo #7: Excavation backfilled with quarry stone.



Photo #8: Concrete surface restoration.

TABLE 1
POT-EXCAVATION SOIL ANALYTICAL RESULTS
82-13 37th Avenue
Jackson Heights, Queens County, New York

SAMPLE ID: LAB ID: COLLECTION DATE: SAMPLE DEPTH:	RUSCO-I	RUSCO-C	RUSCO-R	RUSCO-RR	UUSCO	RF-9-PX			
						L2040828-04			
						9/27/2020			
						3.0-3.5			
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	Conc	Q	RL	MDL
VOLATILE ORGANIC COMPOUNDS (VOCs) - mg/kg									
1,1,1,2-Tetrachloroethane	NS	NS	NS	NS	NS	ND		0.00055	0.00014
1,1,1-Trichloroethane	1000	500	100	100	0.68	ND		0.00055	0.00018
1,1,2,2-Tetrachloroethane	NS	NS	NS	NS	NS	ND		0.00055	0.00018
1,1,2-Trichloroethane	NS	NS	NS	NS	NS	ND		0.0011	0.00029
1,1-Dichloroethane	480	240	19	26	0.27	ND		0.0011	0.00016
1,1-Dichloroethene	1000	500	100	100	0.33	ND		0.0011	0.00026
1,1-Dichloropropene	NS	NS	NS	NS	NS	ND		0.00055	0.00017
1,2,3-Trichlorobenzene	NS	NS	NS	NS	NS	ND		0.0022	0.00035
1,2,3-Trichloropropane	NS	NS	NS	NS	NS	ND		0.0022	0.00014
1,2,4,5-Tetramethylbenzene	NS	NS	NS	NS	NS	ND		0.0022	0.00021
1,2,4-Trichlorobenzene	NS	NS	NS	NS	NS	ND		0.0022	0.0003
1,2,4-Trimethylbenzene	380	190	47	52	3.6	ND		0.0022	0.00036
1,2-Dibromo-3-chloropropane	NS	NS	NS	NS	NS	ND		0.0033	0.0011
1,2-Dibromoethane	NS	NS	NS	NS	NS	ND		0.0011	0.0003
1,2-Dichlorobenzene	1000	500	100	100	1.1	ND		0.0022	0.00016
1,2-Dichloroethane	60	30	2.3	3.1	0.02	ND		0.0011	0.00028
1,2-Dichloroethene, Total	NS	NS	NS	NS	NS	ND		0.0011	0.00015
1,2-Dichloropropane	NS	NS	NS	NS	NS	ND		0.0011	0.00014
1,3,5-Trimethylbenzene	380	190	47	52	8.4	ND		0.0022	0.00021
1,3-Dichlorobenzene	560	280	17	49	2.4	ND		0.0022	0.00016
1,3-Dichloropropane	NS	NS	NS	NS	NS	ND		0.0022	0.00018
1,3-Dichloropropene, Total	NS	NS	NS	NS	NS	ND		0.00055	0.00017
1,4-Dichlorobenzene	250	130	9.8	13	1.8	ND		0.0022	0.00019
1,4-Dioxane	250	130	9.8	13	0.1	ND		0.088	0.038
2,2-Dichloropropane	NS	NS	NS	NS	NS	ND		0.0022	0.00022
2-Butanone	1000	500	100	100	0.12	0.018		0.011	0.0024
2-Hexanone	NS	NS	NS	NS	NS	ND		0.011	0.0013
4-Methyl-2-pentanone	NS	NS	NS	NS	NS	ND		0.011	0.0014
Acetone	1000	500	100	100	0.05	0.055		0.011	0.0053
Acrylonitrile	NS	NS	NS	NS	NS	ND		0.0044	0.0012
Benzene	89	44	2.9	4.8	0.06	ND		0.00055	0.00018
Bromobenzene	NS	NS	NS	NS	NS	ND		0.0022	0.00016
Bromochloromethane	NS	NS	NS	NS	NS	ND		0.0022	0.00022
Bromodichloromethane	NS	NS	NS	NS	NS	ND		0.00055	0.00012
Bromoform	NS	NS	NS	NS	NS	ND		0.0044	0.00027
Bromomethane	NS	NS	NS	NS	NS	ND		0.0022	0.00064
Carbon disulfide	NS	NS	NS	NS	NS	ND		0.011	0.005
Carbon tetrachloride	44	22	1.4	2.4	0.76	ND		0.0011	0.00025
Chlorobenzene	1000	500	100	100	1.1	ND		0.00055	0.00014
Chloroethane	NS	NS	NS	NS	NS	ND		0.0022	0.0005
Chloroform	700	350	10	49	0.37	ND		0.0016	0.00015
Chloromethane	NS	NS	NS	NS	NS	ND		0.0044	0.001
cis-1,2-Dichloroethene	1000	500	59	100	0.25	ND		0.0011	0.00019
cis-1,3-Dichloropropene	NS	NS	NS	NS	NS	ND		0.00055	0.00017
Dibromochloromethane	NS	NS	NS	NS	NS	ND		0.0011	0.00015
Dibromomethane	NS	NS	NS	NS	NS	ND		0.0022	0.00026
Dichlorodifluoromethane	NS	NS	NS	NS	NS	ND		0.011	0.001
Ethyl ether	NS	NS	NS	NS	NS	ND		0.0022	0.00037
Ethylbenzene	780	390	30	41	1	ND		0.0011	0.00015
Hexachlorobutadiene	NS	NS	NS	NS	NS	ND		0.0044	0.00018
Isopropylbenzene	NS	NS	NS	NS	NS	ND		0.0011	0.00012
Methyl tert butyl ether	1000	500	62	100	0.93	ND		0.0022	0.00022
Methylene chloride	1000	500	51	100	0.05	ND		0.0055	0.0025
n-Butylbenzene	1000	500	100	100	12	ND		0.0011	0.00018
n-Propylbenzene	1000	500	100	100	3.9	ND		0.0011	0.00019
Naphthalene	1000	500	100	100	12	ND		0.0044	0.00071
o-Chlorotoluene	NS	NS	NS	NS	NS	ND		0.0022	0.00021
o-Xylene	NS	NS	NS	NS	NS	ND		0.0011	0.00032
p-Chlorotoluene	NS	NS	NS	NS	NS	ND		0.0022	0.00012
p-Diethylbenzene	NS	NS	NS	NS	NS	ND		0.0022	0.00019
p-Ethyltoluene	NS	NS	NS	NS	NS	ND		0.0022	0.00042
p-Isopropyltoluene	NS	NS	NS	NS	NS	ND		0.0011	0.00012
p/m-Xylene	NS	NS	NS	NS	NS	ND		0.0022	0.00061
sec-Butylbenzene	1000	500	100	100	11	ND		0.0011	0.00016
Styrene	NS	NS	NS	NS	NS	ND		0.0011	0.00021
tert-Butylbenzene	1000	500	100	100	5.9	ND		0.0022	0.00013
Tetrachloroethene	300	150	5.5	19	1.3	0.00074		0.00055	0.00021
Toluene	1000	500	100	100	0.7	ND		0.0011	0.00059
trans-1,2-Dichloroethene	1000	500	100	100	0.19	ND		0.0016	0.00015
trans-1,3-Dichloropropene	NS	NS	NS	NS	NS	ND		0.0011	0.0003
trans-1,4-Dichloro-2-butene	NS	NS	NS	NS	NS	ND		0.0055	0.0016
Trichloroethene	400	200	10	21	0.47	ND		0.00055	0.00015
Trichlorofluoromethane	NS	NS	NS	NS	NS	ND		0.0044	0.00076
Vinyl acetate	NS	NS	NS	NS	NS	ND		0.011	0.0024
Vinyl chloride	27	13	0.21	0.9	0.02	ND		0.0011	0.00037
Xylenes, Total	1000	500	100	100	0.26	ND		0.0011	0.00032
Total VOCs	NS	NS	NS	NS	NS	0.07374	-	-	-
GENERAL CHEMISTRY									
Solids, Total	NS	NS	NS	NS	NS	95.9		0.1	NA

Notes:
ND - Not detected
J - Estimated concentration (detected below laboratory method detection limit)
I - The lower value for the two columns has been reported due to obvious interference.
P - The RPD between the results for the two columns exceeds the method-specified criteria.
NS - No NYSDEC Soil Criteria established for this compound.
mg/kg - Milligrams per kilogram
Feet bgs - Feet below ground surface
RUSCO-I - NYSDEC Restricted Use Soil Cleanup Objective - Industrial
RUSCO-C - NYSDEC Restricted Use Soil Cleanup Objective - Commercial
RUSCO-RR - NYSDEC Restricted Use Soil Cleanup Objective - Restricted Residential
RUSCO-R - NYSDEC Restricted Use Soil Cleanup Objective - Residential
UUSCO - Unrestricted Use Soil Cleanup Objective
Bold & Highlighted = Concentration exceeds NYSDEC SCO



www.alphalab.com



Alpha Analytical

Laboratory Code: 11148

SDG Number: L2040828

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Table of Contents

New York ASP Category B Data Deliverable Package.....	1
Table of Contents	2
Sample ID Cross Reference	4
SDG Narrative	5
Data Qualifier Definitions	7
Instrument Information	10
Sample Log-in Sheet	13
Lims COC (LN01)	14
External Chain of Custody	15
Organics Analysis	16
GCMS 8260 Analysis	17
Volatiles QC Summary	18
Form 2 - Organics	19
Form 3 - Organics	20
Form 4 - Organics	23
Form 5 - Organics	24
Form 8 - Organics	26
MDL Study - Volatile Organics 8260	27
Volatiles Sample Data	36
Form 1 - Organics	37
VTX-110 (L2040828-01) Analyzed: 10/02/20 01:19	57
VTX-111 (L2040828-02) Analyzed: 10/02/20 01:46	66
VTX-112 (L2040828-03) Analyzed: 10/02/20 02:13	76
RF-9-PX (L2040828-04) Analyzed: 10/02/20 02:40	86
Volatile Standards Data	96
Initial Calibration	97
Form 6 - Organics	98
ICAL for CHARLIE on 09/29/20 ICAL17178	101
Initial Calibration Summary - Cal Date: 09/29/20 00:00	101
BFB Tune Injected on: 09/25/20 06:55	105
STD0.5PPB Injected on: 09/25/20 08:17	106
STD1PPB Injected on: 09/25/20 08:44	109
STD2PPB Injected on: 09/25/20 09:11	118
STD4PPB Injected on: 09/25/20 09:39	125
STD20PPB Injected on: 09/25/20 10:05	132
STD40PPB Injected on: 09/25/20 10:33	137
STD100PPB Injected on: 09/25/20 11:00	142
STD200PPB Injected on: 09/25/20 11:27	147
STD300PPB Injected on: 09/25/20 11:54	152
ICV Summary Form Injected on: 09/25/20 15:15	157
ICV Quant Report Injected on: 09/25/20 15:15	160
Continuing Calibration	165
Form 7 - Organics	166
CC Summary - CHARLIE Run: 10/01/20 17:38	169
CC Quant - CHARLIE Run: 10/01/20 17:38	172
bfb tune - Inst. CHARLIE 10/01/20 17:15	177
Volatiles Raw QC Data	178
Laboratory Method BI (WG1417205-5) Analyzed: 10/01/20 18:59	179
Laboratory Control S (WG1417205-3) Analyzed: 10/01/20 17:38	187
LCS Duplicate (WG1417205-4) Analyzed: 10/01/20 18:05	265

Table of Contents

Volatiles Calculations	343
QC Batch WG1417205	344
ICAL Sequence for CHARLIE on 29-SEP-2020 00:00 ICAL17178	345
Sequence Log	346
Wet Chemistry Analysis	347
Total Solids Analysis	348
Results	349
Form 1 - Inorganics	350
Sample Raw Data	355
Wet Chemistry Raw Data	356
Quality Control	357
Form 6 - Inorganics	358

Project Name: ROCKFARMER
Project Number: 48122

Lab Number: L2040828
Report Date: 10/02/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2040828-01	VTX-110	SOIL	QUEENS, NY	09/27/20 11:00	09/28/20
L2040828-02	VTX-111	SOIL	QUEENS, NY	09/27/20 11:45	09/28/20
L2040828-03	VTX-112	SOIL	QUEENS, NY	09/27/20 13:05	09/28/20
L2040828-04	RF-9-PX	SOIL	QUEENS, NY	09/27/20 14:10	09/28/20

Project Name: ROCKFARMER
Project Number: 48122

Lab Number: L2040828
Report Date: 10/02/20

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. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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 Client Service Representative 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 Client Services at 800-624-9220 with any questions.

Project Name: ROCKFARMER
Project Number: 48122

Lab Number: L2040828
Report Date: 10/02/20

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.

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:

Michelle M. Morris

Report Date: 10/02/20

Title: Technical Director/Representative



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.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
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.

Report Format: DU Report with 'J' Qualifiers



Project Name: ROCKFARMER
Project Number: 48122

Lab Number: L2040828
Report Date: 10/02/20

Footnotes

- 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.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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 Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- 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.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- 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.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: ROCKFARMER
Project Number: 48122

Lab Number: L2040828
Report Date: 10/02/20

Data Qualifiers

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.

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).

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

Report Format: DU Report with 'J' Qualifiers





Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 7890 GC/5975C MSD
 Trap: Supelco K Trap (VOACARB 3000)
 Concentrator: EST Encon (or equivalent)
 Autosampler: EST Centurion (or equivalent)
 Purge time: 11 min

Columns (length x ID x df):
 RTX-VMS 20m x 0.18mm x 1um
 RTX-VMS 30m x 0.25mm x 1.4um
 RTX-502.2 40m x 0.18mm x 1um

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)
 Trap: Supelco K Trap (VOACARB 3000)
 Concentrator: EST Encon (or equivalent)
 Autosampler: EST Centurion (or equivalent)

Column Type: Restek RTX 502.2
 Column Length: 105 Meters
 df: 3.00 um
 ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD
 Trap: Supelco K Trap (VOACARB 3000)
 Concentrator: Tekmar Velocity / EST Encon
 Autosampler: Varian Archon / EST Centurion
 Purge time: 11 min

Column Type: DB-VRX
 Column Length: 60 Meters
 df: 1.40 um
 ID: 0.25 mm
 Desorb: 1 min

Volatile Organics: Dissolved Gas

Instrument: Agilent 7890 (or equivalent) with FID/TCD

Column Type: Haysep S Column
 Column Length: 2 Meters packed
 (100/200 mesh)

Autosampler: LEAP Headspace

Purge time: 0.6 min

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE / QP2020

Concentrator: Entech 7100A or 7200
 Autosampler: Entech 7016CA or 7016D

Column Type: Restek RTX-1
 Column Length: 60 Meters
 df: 1.00 um
 ID: 0.25 mm or 0.32 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material

Trap 2: Tenax: manufacturer-Entech: 20 cm packing material



Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

Instrument: Agilent 5973N MSD	Injection volume: 1 μ L; 2 μ L LVI
Column Type: Restek RXI-5SILMS	df: 0.32 μ m
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 μ L; 2 μ L LVI
Column Type: Restek RXI-5SILMS	df: 0.25 μ m
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB/Herbicides:

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1 μ L
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLP Pesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum/EPH:

Instrument: Agilent 6890 w/FID / HP 5890 w/ FID	Injection Volume: 1 μ L
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	



Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 1 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8270):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 2 ul
Column Type: ZB-Semivolatiles	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (8270 SIM):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (1,4-Dioxane):

Instrument: Agilent 5973N / 5975 / 5977 MSD	Injection volume: 3 ul
Column Type: RTX-5	df: 0.25um, 0.18 um
Column Length: 30 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (209 Congener):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (8081):

Instrument: Agilent 6890 / 7890	Injection volume: 1 ul
Column Type: RTX-5 / RTX-CLP II	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8082):

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Semivolatile Organics (SHC Extractables):

Instrument: Agilent 6890	Injection volume: 1 ul
Column Type: RTX-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm



Sample Delivery Group Summary

Alpha Job Number : L2040828

Received : 28-SEP-2020
Reviewer : Madeline Mosscrop

Account Name : The Vertex Companies, Inc.
Project Number : 48122
Project Name : ROCKFARMER

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	2.6	

Condition Information

1) All samples on COC received?	YES
2) Extra samples received?	NO
3) Are there any sample container discrepancies?	NO
4) Are there any discrepancies between sample labels & COC?	NO
5) Are samples in appropriate containers for requested analysis?	YES
6) Are samples properly preserved for requested analysis?	YES
7) Are samples within holding time for requested analysis?	YES
8) All sampling equipment returned?	NA

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	NO
--	----

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Oct 02 2020, 06:56 pm

Login Number: L2040828

Account: VERTEX-NJ The Vertex Companies, Inc. Project: 48122

Received: 28SEP20 Due Date: 05OCT20

Sample # Client ID Mat PR Collected

L2040828-01 VTX-110 3 S0 27SEP20 11:00

| ASP-B Package Due Date: 10/05/20

ASP-B, ENCORE, NYTCL-8260HLW, TS

L2040828-02 VTX-111 3 S0 27SEP20 11:45

| Package Due Date: 10/05/20

ENCORE, NYTCL-8260HLW, TS

L2040828-03 VTX-112 3 S0 27SEP20 13:05

| Package Due Date: 10/05/20

ENCORE, NYTCL-8260HLW, TS

L2040828-04 RF-9-PX 3 S0 27SEP20 14:10

| Package Due Date: 10/05/20

ENCORE, NYTCL-8260HLW, TS

Page 1

Logged By: Cynthia Romero

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab 9/28/20		ALPHA Job # L2040828																																																																																																			
		Project Information Project Name: ROCKFEMER Project Location: QUEENS, NY Project # 48122 (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☒ EQUIS (4 File) ☐ Other		Billing Information ☒ Same as Client Info PO # 48122																																																																																																					
Client Information Client: VERTEX Address: 3322 ROUTE 22 BRIDGEBURG, NJ Phone: Fax: Email: thi@vertexeng.com		Project Manager: TM BIERLE ALPHAQuote #: Turn-Around Time Standard ☒ Rush (only if pre approved) ☐ Due Date: # of Days:		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☒ NY Restricted Use ☐ Other ☒ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:																																																																																																					
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments:						ANALYSIS		Sample Filtration ☐ Done ☐ Lab to do ☐ Lab to do (Please Specify below) Sample Specific Comments																																																																																																			
Please specify Metals or TAL.						VOC (8260)		Total Bottles																																																																																																			
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>40828-01</td> <td>VTX-110</td> <td>9/27/20</td> <td>1100</td> <td>Soil</td> <td>TB</td> </tr> <tr> <td>-02</td> <td>VTX-111</td> <td>↓</td> <td>1145</td> <td>↓</td> <td>↓</td> </tr> <tr> <td>-03</td> <td>VTX-112</td> <td>↓</td> <td>1305</td> <td>↓</td> <td>↓</td> </tr> <tr> <td>-04</td> <td>RF-9-PX</td> <td>↓</td> <td>1410</td> <td>↓</td> <td>↓</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>										ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Date	Time	40828-01	VTX-110	9/27/20	1100	Soil	TB	-02	VTX-111	↓	1145	↓	↓	-03	VTX-112	↓	1305	↓	↓	-04	RF-9-PX	↓	1410	↓	↓																																																																		
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Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type E/P Preservative B		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)																																																																																																			
Relinquished By: [Signature]		Date/Time: 9/28/20 10:15		Received By: [Signature]		Date/Time: 9/28/20 09:15		9/28/20 16:45 9/28/20 22:55																																																																																																			

Organics

GC/MS 8260

Analysis

Volatiles QC Summary

Surrogate Recovery Summary

Form 2

Volatiles

Client: The Vertex Companies, Inc.
Project Name: ROCKFARMER

Lab Number: L2040828
Project Number: 48122
Matrix: Soil

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
VTX-110 (L2040828-01)	89	104	106	93	0
VTX-111 (L2040828-02)	87	103	105	89	0
VTX-112 (L2040828-03)	89	105	108	95	0
RF-9-PX (L2040828-04)	89	103	104	94	0
WG1417205-3LCS	89	99	99	99	0
WG1417205-4LCSD	91	98	99	97	0
WG1417205-5BLANK	89	103	104	93	0

QC LIMITS

(70-130) DCA = 1,2-DICHLOROETHANE-D4
(70-130) TOL = TOLUENE-D8
(70-130) BFB = 4-BROMOFLUOROBENZENE
(70-130) DBFM = DIBROMOFLUOROMETHANE

* Values outside of QC limits

FORM II NYTCL-8260HLW



Laboratory Control Sample Summary

Form 3

Volatiles

Client : The Vertex Companies, Inc. Lab Number : L2040828
 Project Name : ROCKFARMER Project Number : 48122
 Matrix : SOIL
 LCS Sample ID : WG1417205-3 Analysis Date : 10/01/20 17:38 File ID : VC201001N01
 LCSD Sample ID : WG1417205-4 Analysis Date : 10/01/20 18:05 File ID : VC201001N02

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
Methylene chloride	40	37	92	40	35	87	6	70-130	30
1,1-Dichloroethane	40	39	97	40	36	90	7	70-130	30
Chloroform	40	38	95	40	36	89	7	70-130	30
Carbon tetrachloride	40	37	92	40	35	87	6	70-130	30
1,2-Dichloropropane	40	39	97	40	37	93	4	70-130	30
Dibromochloromethane	40	32	81	40	32	81	0	70-130	30
1,1,2-Trichloroethane	40	36	90	40	36	89	1	70-130	30
Tetrachloroethene	40	36	91	40	35	88	3	70-130	30
Chlorobenzene	40	34	85	40	33	83	2	70-130	30
Trichlorofluoromethane	40	43	108	40	43	107	1	70-139	30
1,2-Dichloroethane	40	36	90	40	36	89	1	70-130	30
1,1,1-Trichloroethane	40	37	93	40	35	87	7	70-130	30
Bromodichloromethane	40	34	86	40	33	83	4	70-130	30
trans-1,3-Dichloropropene	40	32	79	40	31	77	3	70-130	30
cis-1,3-Dichloropropene	40	34	84	40	32	81	4	70-130	30
1,1-Dichloropropene	40	40	99	40	37	92	7	70-130	30
Bromoform	40	30	76	40	31	78	3	70-130	30
1,1,2,2-Tetrachloroethane	40	39	98	40	39	98	0	70-130	30
Benzene	40	36	90	40	34	86	5	70-130	30
Toluene	40	37	92	40	35	89	3	70-130	30
Ethylbenzene	40	36	90	40	35	88	2	70-130	30
Chloromethane	40	37	93	40	35	88	6	52-130	30
Bromomethane	40	47	117	40	47	117	0	57-147	30
Vinyl chloride	40	43	108	40	41	102	6	67-130	30
Chloroethane	40	54	135	40	55	138	2	50-151	30
1,1-Dichloroethene	40	43	107	40	38	95	12	65-135	30



Laboratory Control Sample Summary

Form 3

Volatiles

Client : The Vertex Companies, Inc. **Lab Number** : L2040828
Project Name : ROCKFARMER **Project Number** : 48122
Matrix : SOIL
LCS Sample ID : WG1417205-3 **Analysis Date** : 10/01/20 17:38 **File ID** : VC201001N01
LCSD Sample ID : WG1417205-4 **Analysis Date** : 10/01/20 18:05 **File ID** : VC201001N02

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
trans-1,2-Dichloroethene	40	42	106	40	39	98	8	70-130	30
Trichloroethene	40	38	96	40	37	92	4	70-130	30
1,2-Dichlorobenzene	40	38	94	40	37	93	1	70-130	30
1,3-Dichlorobenzene	40	38	96	40	37	93	3	70-130	30
1,4-Dichlorobenzene	40	38	96	40	37	94	2	70-130	30
Methyl tert butyl ether	40	34	86	40	34	84	2	66-130	30
p/m-Xylene	80	70	88	80	69	86	2	70-130	30
o-Xylene	80	69	86	80	68	84	2	70-130	30
cis-1,2-Dichloroethene	40	40	100	40	38	95	5	70-130	30
Dibromomethane	40	38	96	40	38	94	2	70-130	30
Styrene	80	68	84	80	67	84	0	70-130	30
Dichlorodifluoromethane	40	38	96	40	35	86	11	30-146	30
Acetone	40	31	76	40	31	78	3	54-140	30
Carbon disulfide	40	37	92	40	33	83	10	59-130	30
2-Butanone	40	30	76	40	32	80	5	70-130	30
Vinyl acetate	40	31	77	40	30	75	3	70-130	30
4-Methyl-2-pentanone	40	36	89	40	38	94	5	70-130	30
1,2,3-Trichloropropane	40	37	92	40	38	96	4	68-130	30
2-Hexanone	40	32	81	40	34	84	4	70-130	30
Bromochloromethane	40	38	95	40	36	90	5	70-130	30
2,2-Dichloropropane	40	30	74	40	27	68	Q 8	70-130	30
1,2-Dibromoethane	40	38	95	40	38	96	1	70-130	30
1,3-Dichloropropane	40	38	95	40	38	94	1	69-130	30
1,1,1,2-Tetrachloroethane	40	32	81	40	32	80	1	70-130	30
Bromobenzene	40	38	95	40	37	94	1	70-130	30
n-Butylbenzene	40	41	103	40	40	100	3	70-130	30



Laboratory Control Sample Summary

Form 3

Volatiles

Client : The Vertex Companies, Inc. Lab Number : L2040828
 Project Name : ROCKFARMER Project Number : 48122
 Matrix : SOIL
 LCS Sample ID : WG1417205-3 Analysis Date : 10/01/20 17:38 File ID : VC201001N01
 LCSD Sample ID : WG1417205-4 Analysis Date : 10/01/20 18:05 File ID : VC201001N02

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
sec-Butylbenzene	40	40	99	40	38	96	3	70-130	30
tert-Butylbenzene	40	39	98	40	37	93	5	70-130	30
o-Chlorotoluene	40	39	97	40	37	93	4	70-130	30
p-Chlorotoluene	40	39	96	40	38	94	2	70-130	30
1,2-Dibromo-3-chloropropane	40	32	79	40	33	82	4	68-130	30
Hexachlorobutadiene	40	36	90	40	35	87	3	67-130	30
Isopropylbenzene	40	40	100	40	38	95	5	70-130	30
p-Isopropyltoluene	40	39	98	40	38	96	2	70-130	30
Naphthalene	40	37	93	40	39	97	4	70-130	30
Acrylonitrile	40	35	88	40	33	84	5	70-130	30
n-Propylbenzene	40	41	102	40	39	98	4	70-130	30
1,2,3-Trichlorobenzene	40	37	93	40	38	95	2	70-130	30
1,2,4-Trichlorobenzene	40	41	103	40	41	102	1	70-130	30
1,3,5-Trimethylbenzene	40	39	98	40	38	94	4	70-130	30
1,2,4-Trimethylbenzene	40	39	98	40	38	96	2	70-130	30
1,4-Dioxane	2000	1800	89	2000	1900	96	8	65-136	30
p-Diethylbenzene	40	40	101	40	39	98	3	70-130	30
p-Ethyltoluene	40	41	101	40	39	97	4	70-130	30
1,2,4,5-Tetramethylbenzene	40	39	96	40	38	95	1	70-130	30
Ethyl ether	40	39	98	40	38	95	3	67-130	30
trans-1,4-Dichloro-2-butene	40	34	84	40	35	86	2	70-130	30



Method Blank Summary
Form 4
Volatiles

Client	: The Vertex Companies, Inc.	Lab Number	: L2040828
Project Name	: ROCKFARMER	Project Number	: 48122
Lab Sample ID	: WG1417205-5	Lab File ID	: VC201001N04
Instrument ID	: CHARLIE		
Matrix	: SOIL	Analysis Date	: 10/01/20 18:59

Client Sample No.	Lab Sample ID	Analysis Date
WG1417205-3LCS	WG1417205-3	10/01/20 17:38
WG1417205-4LCSD	WG1417205-4	10/01/20 18:05
VTX-110	L2040828-01	10/02/20 01:19
VTX-111	L2040828-02	10/02/20 01:46
VTX-112	L2040828-03	10/02/20 02:13
RF-9-PX	L2040828-04	10/02/20 02:40

Instrument Performance Check (Tune) Summary

Form 5

Volatiles

Bromofluorobenzene (BFB)

Client : The Vertex Companies, Inc.	Lab Number : L2040828
Project Name : ROCKFARMER	Project Number : 48122
Instrument ID : CHARLIE	Analysis Date : 09/25/20 06:55
Tune Standard : WG1415936-1	Tune File ID : VC200925BFB_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	15.5
75	30.0 - 60.0% of mass 95	46.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.9 (1)1
174	Greater than 50.0 of mass 95	84.8
175	5.0 - 9.0% of mass 174	6 (7.1)1
176	95.0 - 101% of mass 174	81 (95.6)1
177	5.0 - 9.0% of mass 176	5.6 (6.9)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.5PPB	R1355357-1	VC200925A03	09/25/20 08:17
STD1PPB	R1355357-2	VC200925A04	09/25/20 08:44
STD2PPB	R1355357-3	VC200925A05	09/25/20 09:11
STD4PPB	R1355357-4	VC200925A06	09/25/20 09:39
STD20PPB	R1355357-5	VC200925A07	09/25/20 10:05
STD40PPB	R1355357-6	VC200925A08	09/25/20 10:33
STD100PPB	R1355357-7	VC200925A09	09/25/20 11:00
STD200PPB	R1355357-9	VC200925A10	09/25/20 11:27
STD300PPB	R1355357-8	VC200925A11	09/25/20 11:54
ICV Quant Report	R1355357-10	VC200925A15	09/25/20 15:15

Instrument Performance Check (Tune) Summary

Form 5

Volatiles

Bromofluorobenzene (BFB)

Client : The Vertex Companies, Inc.	Lab Number : L2040828
Project Name : ROCKFARMER	Project Number : 48122
Instrument ID : CHARLIE	Analysis Date : 10/01/20 17:15
Tune Standard : WG1417205-1	Tune File ID : VC201001BF2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	18.2
75	30.0 - 60.0% of mass 95	50.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	1.1 (1.2)1
174	Greater than 50.0 of mass 95	92.1
175	5.0 - 9.0% of mass 174	7.6 (8.2)1
176	95.0 - 101% of mass 174	88.4 (96)1
177	5.0 - 9.0% of mass 176	6.2 (7)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1417205-2CCAL	WG1417205-2	VC201001N01	10/01/20 17:38
WG1417205-3LCS	WG1417205-3	VC201001N01	10/01/20 17:38
WG1417205-4LCSD	WG1417205-4	VC201001N02	10/01/20 18:05
WG1417205-5BLANK	WG1417205-5	VC201001N04	10/01/20 18:59
VTX-110	L2040828-01	VC201001N18	10/02/20 01:19
VTX-111	L2040828-02	VC201001N19	10/02/20 01:46
VTX-112	L2040828-03	VC201001N20	10/02/20 02:13
RF-9-PX	L2040828-04	VC201001N21	10/02/20 02:40

Internal Standard Area and RT Summary

Form 8a

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Instrument ID : CHARLIE
 Sample No : WG1417205-2

Lab Number : L2040828
 Project Number : 48122
 Analysis Date : 10/01/20 17:38
 Lab File ID : VC201001N01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1417205-2	153806	6.03	132392	9.57	78752	12.26
Upper Limit	307612	6.53	264784	10.07	157504	12.76
Lower Limit	76903	5.53	66196	9.07	39376	11.76
Sample ID						
WG1417205-3 LCS	153806	6.03	132392	9.57	78752	12.26
WG1417205-4 LCSD	174186	6.03	149481	9.56	90927	12.25
WG1417205-5 BLANK	135682	6.04	112741	9.57	61476	12.26
VTX-110	139781	6.04	113551	9.57	59638	12.26
VTX-111	134771	6.04	109559	9.57	58142	12.26
VTX-112	130702	6.03	104516	9.57	54645	12.25
RF-9-PX	134250	6.04	109715	9.57	59065	12.26

Area Upper Limit = +100% of internal standard area
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
 RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits





Date Created: 06/19/18
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File: PM5049-1
Page: 1

Volatile Organics - EPA 8260C (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	3	0.678	ug/l	70-130	20	70-130	20	20			
1,1-Dichloroethane	75-34-3	0.75	0.210	ug/l	70-130	20	70-130	20	20			
Chloroform	67-66-3	0.75	0.222	ug/l	70-130	20	70-130	20	20			
Carbon tetrachloride	56-23-5	0.5	0.134	ug/l	63-132	20	63-132	20	20			
1,2-Dichloropropane	78-87-5	1.75	0.137	ug/l	70-130	20	70-130	20	20			
Dibromochloromethane	124-48-1	0.5	0.149	ug/l	63-130	20	63-130	20	20			
1,1,2-Trichloroethane	79-00-5	0.75	0.144	ug/l	70-130	20	70-130	20	20			
Tetrachloroethene	127-18-4	0.5	0.181	ug/l	70-130	20	70-130	20	20			
Chlorobenzene	108-90-7	0.5	0.178	ug/l	75-130	25	75-130	25	25			
Trichlorofluoromethane	75-69-4	2.5	0.161	ug/l	62-150	20	62-150	20	20			
1,2-Dichloroethane	107-06-2	0.5	0.132	ug/l	70-130	20	70-130	20	20			
1,1,1-Trichloroethane	71-55-6	0.5	0.158	ug/l	67-130	20	67-130	20	20			
Bromodichloromethane	75-27-4	0.5	0.192	ug/l	67-130	20	67-130	20	20			
trans-1,3-Dichloropropene	10061-02-6	0.5	0.164	ug/l	70-130	20	70-130	20	20			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.144	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,1-Dichloropropene	563-58-6	2.5	0.240	ug/l	70-130	20	70-130	20	20			
Bromoform	75-25-2	2	0.248	ug/l	54-136	20	54-136	20	20			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.167	ug/l	67-130	20	67-130	20	20			
Benzene	71-43-2	0.5	0.159	ug/l	70-130	25	70-130	25	25			
Toluene	108-88-3	0.75	0.203	ug/l	70-130	25	70-130	25	25			
Ethylbenzene	100-41-4	0.5	0.167	ug/l	70-130	20	70-130	20	20			
Chloromethane	74-87-3	2.5	0.200	ug/l	64-130	20	64-130	20	20			
Bromomethane	74-83-9	1	0.256	ug/l	39-139	20	39-139	20	20			
Vinyl chloride	75-01-4	1	0.0714	ug/l	55-140	20	55-140	20	20			
Chloroethane	75-00-3	1	0.134	ug/l	55-138	20	55-138	20	20			
1,1-Dichloroethene	75-35-4	0.5	0.169	ug/l	61-145	25	61-145	25	25			
trans-1,2-Dichloroethene	156-60-5	0.75	0.163	ug/l	70-130	20	70-130	20	20			
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20			
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20			
Trichloroethene	79-01-6	0.5	0.175	ug/l	70-130	25	70-130	25	25			
1,2-Dichlorobenzene	95-50-1	2.5	0.184	ug/l	70-130	20	70-130	20	20			
1,3-Dichlorobenzene	541-73-1	2.5	0.186	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobenzene	106-46-7	2.5	0.187	ug/l	70-130	20	70-130	20	20			
Methyl tert butyl ether	1634-04-4	1	0.166	ug/l	63-130	20	63-130	20	20			
p/m-Xylene	179601-23-1	1	0.332	ug/l	70-130	20	70-130	20	20			
o-Xylene	95-47-6	1	0.392	ug/l	70-130	20	70-130	20	20			
Xylene (Total)	1330-20-7	1	0.330	ug/l				20	20			
Xylene (Total)	1330-20-7	1	0.330	ug/l				20	20			
cis-1,2-Dichloroethene	156-59-2	0.5	0.187	ug/l	70-130	20	70-130	20	20			
Dibromomethane	74-95-3	5	0.363	ug/l	70-130	20	70-130	20	20			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Date Created: 06/19/18
Created By: Jason Hebert
File: PM5049-1
Page: 2

Volatile Organics - EPA 8260C (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dichlorobutane	110-56-5	5	0.464	ug/l	70-130	20	70-130	20	20			
1,2,3-Trichloropropane	96-18-4	5	0.176	ug/l	64-130	20	64-130	20	20			
Styrene	100-42-5	1	0.359	ug/l	70-130	20	70-130	20	20			
Dichlorodifluoromethane	75-71-8	5	0.244	ug/l	36-147	20	36-147	20	20			
Acetone	67-64-1	5	1.46	ug/l	58-148	20	58-148	20	20			
Carbon disulfide	75-15-0	5	0.299	ug/l	51-130	20	51-130	20	20			
2-Butanone	78-93-3	5	1.94	ug/l	63-138	20	63-138	20	20			
Vinyl acetate	108-05-4	5	0.311	ug/l	70-130	20	70-130	20	20			
4-Methyl-2-pentanone	108-10-1	5	0.416	ug/l	59-130	20	59-130	20	20			
2-Hexanone	591-78-6	5	0.515	ug/l	57-130	20	57-130	20	20			
Ethyl methacrylate	97-63-2	5	0.606	ug/l	70-130	20	70-130	20	20			
Acrylonitrile	107-13-1	5	0.430	ug/l	70-130	20	70-130	20	20			
Bromochloromethane	74-97-5	2.5	0.152	ug/l	70-130	20	70-130	20	20			
Tetrahydrofuran	109-99-9	5	0.525	ug/l	58-130	20	58-130	20	20			
2,2-Dichloropropane	594-20-7	2.5	0.204	ug/l	63-133	20	63-133	20	20			
1,2-Dibromoethane	106-93-4	2	0.193	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropane	142-28-9	2.5	0.212	ug/l	70-130	20	70-130	20	20			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.164	ug/l	64-130	20	64-130	20	20			
Bromobenzene	108-86-1	2.5	0.152	ug/l	70-130	20	70-130	20	20			
n-Butylbenzene	104-51-8	0.5	0.192	ug/l	53-136	20	53-136	20	20			
sec-Butylbenzene	135-98-8	0.5	0.181	ug/l	70-130	20	70-130	20	20			
tert-Butylbenzene	98-06-6	2.5	0.196	ug/l	70-130	20	70-130	20	20			
o-Chlorotoluene	95-49-8	2.5	0.215	ug/l	70-130	20	70-130	20	20			
p-Chlorotoluene	106-43-4	2.5	0.185	ug/l	70-130	20	70-130	20	20			
1,2-Dibromo-3-chloropropane	96-12-8	2.5	0.353	ug/l	41-144	20	41-144	20	20			
Hexachlorobutadiene	87-68-3	0.5	0.217	ug/l	63-130	20	63-130	20	20			
Isopropylbenzene	98-82-8	0.5	0.187	ug/l	70-130	20	70-130	20	20			
p-Isopropyltoluene	99-87-6	0.5	0.188	ug/l	70-130	20	70-130	20	20			
Naphthalene	91-20-3	2.5	0.216	ug/l	70-130	20	70-130	20	20			
n-Propylbenzene	103-65-1	0.5	0.173	ug/l	69-130	20	69-130	20	20			
1,2,3-Trichlorobenzene	87-61-6	2.5	0.234	ug/l	70-130	20	70-130	20	20			
1,2,4-Trichlorobenzene	120-82-1	2.5	0.220	ug/l	70-130	20	70-130	20	20			
1,3,5-Trimethylbenzene	108-67-8	2.5	0.217	ug/l	64-130	20	64-130	20	20			
1,3,5-Trichlorobenzene	108-70-3	2	0.141	ug/l	70-130	20	70-130	20	20			
1,2,4-Trimethylbenzene	95-63-6	2.5	0.191	ug/l	70-130	20	70-130	20	20			
trans-1,4-Dichloro-2-butene	110-57-6	2.5	0.213	ug/l	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	2.5	0.163	ug/l	59-134	20	59-134	20	20			
Methyl Acetate	79-20-9	10	0.234	ug/l	70-130	20	70-130	20	20			
Ethyl Acetate	141-78-6	10	0.716	ug/l	70-130	20	70-130	20	20			
Isopropyl Ether	108-20-3	2	0.425	ug/l	70-130	20	70-130	20	20			
Cyclohexane	110-82-7	10	0.271	ug/l	70-130	20	70-130	20	20			
Ethyl-Tert-Butyl-Ether	637-92-3	2	0.179	ug/l	70-130	20	70-130	20	20			

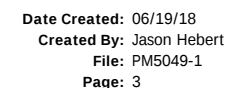
Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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File: PM5047-1
Page: 1

Volatile Organics - EPA 8260C (SOIL-LOW)

Holding Time: 14 days
Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	5	2.29	ug/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	1	0.145	ug/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	1.5	0.140	ug/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	1	0.230	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	1	0.125	ug/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	1	0.140	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	1	0.267	ug/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	0.5	0.196	ug/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	0.5	0.127	ug/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	4	0.695	ug/kg	70-139	30	70-139	30	30			
1,2-Dichloroethane	107-06-2	1	0.257	ug/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	0.5	0.167	ug/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	0.5	0.109	ug/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	1	0.273	ug/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.158	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropene, Total	542-75-6	0.5	0.158	ug/kg				30	30			
1,3-Dichloropropene, Total	542-75-6	0.5	0.158	ug/kg				30	30			
1,1-Dichloropropene	563-58-6	0.5	0.159	ug/kg	70-130	30	70-130	30	30			
Bromoform	75-25-2	4	0.246	ug/kg	70-130	30	70-130	30	30			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Benzene	71-43-2	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	1	0.543	ug/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	1	0.141	ug/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	4	0.932	ug/kg	52-130	30	52-130	30	30			
Bromomethane	74-83-9	2	0.581	ug/kg	57-147	30	57-147	30	30			
Vinyl chloride	75-01-4	1	0.335	ug/kg	67-130	30	67-130	30	30			
Chloroethane	75-00-3	2	0.452	ug/kg	50-151	30	50-151	30	30			
1,1-Dichloroethene	75-35-4	1	0.238	ug/kg	65-135	30	65-135	30	30			
trans-1,2-Dichloroethene	156-60-5	1.5	0.137	ug/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	0.5	0.137	ug/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.144	ug/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.148	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.171	ug/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	2	0.201	ug/kg	66-130	30	66-130	30	30			
p/m-Xylene	179601-23-1	2	0.560	ug/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	1	0.291	ug/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	1	0.291	ug/kg				30	30			
Xylene (Total)	1330-20-7	1	0.291	ug/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	1	0.175	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	1	0.137	ug/kg				30	30			
1,2-Dichloroethene (total)	540-59-0	1	0.137	ug/kg				30	30			
Dibromomethane	74-95-3	2	0.238	ug/kg	70-130	30	70-130	30	30			

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Page: 2

Volatile Organics - EPA 8260C (SOIL-LOW)

Holding Time: 14 days
Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dichlorobutane	110-56-5	10	0.226	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichloropropane	96-18-4	2	0.127	ug/kg	68-130	30	68-130	30	30			
Styrene	100-42-5	1	0.196	ug/kg	70-130	30	70-130	30	30			
Dichlorodifluoromethane	75-71-8	10	0.915	ug/kg	30-146	30	30-146	30	30			
Acetone	67-64-1	10	4.81	ug/kg	54-140	30	54-140	30	30			
Carbon disulfide	75-15-0	10	4.55	ug/kg	59-130	30	59-130	30	30			
2-Butanone	78-93-3	10	2.22	ug/kg	70-130	30	70-130	30	30			
Vinyl acetate	108-05-4	10	2.15	ug/kg	70-130	30	70-130	30	30			
4-Methyl-2-pentanone	108-10-1	10	1.28	ug/kg	70-130	30	70-130	30	30			
2-Hexanone	591-78-6	10	1.18	ug/kg	70-130	30	70-130	30	30			
Ethyl methacrylate	97-63-2	10	1.58	ug/kg	70-130	30	70-130	30	30			
Acrylonitrile	107-13-1	4	1.15	ug/kg	70-130	30	70-130	30	30			
Bromochloromethane	74-97-5	2	0.205	ug/kg	70-130	30	70-130	30	30			
Tetrahydrofuran	109-99-9	4	1.59	ug/kg	66-130	30	66-130	30	30			
2,2-Dichloropropane	594-20-7	2	0.202	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromoethane	106-93-4	1	0.279	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropane	142-28-9	2	0.167	ug/kg	69-130	30	69-130	30	30			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.132	ug/kg	70-130	30	70-130	30	30			
Bromobenzene	108-86-1	2	0.145	ug/kg	70-130	30	70-130	30	30			
n-Butylbenzene	104-51-8	1	0.167	ug/kg	70-130	30	70-130	30	30			
sec-Butylbenzene	135-98-8	1	0.146	ug/kg	70-130	30	70-130	30	30			
tert-Butylbenzene	98-06-6	2	0.118	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trichlorobenzene	108-70-3	2	0.173	ug/kg	70-130	30	70-130	30	30			
o-Chlorotoluene	95-49-8	2	0.191	ug/kg	70-130	30	70-130	30	30			
p-Chlorotoluene	106-43-4	2	0.108	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromo-3-chloropropane	96-12-8	3	0.998	ug/kg	68-130	30	68-130	30	30			
Hexachlorobutadiene	87-68-3	4	0.169	ug/kg	67-130	30	67-130	30	30			
Isopropylbenzene	98-82-8	1	0.109	ug/kg	70-130	30	70-130	30	30			
p-Isopropyltoluene	99-87-6	1	0.109	ug/kg	70-130	30	70-130	30	30			
Naphthalene	91-20-3	4	0.650	ug/kg	70-130	30	70-130	30	30			
n-Propylbenzene	103-65-1	1	0.171	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichlorobenzene	87-61-6	2	0.322	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trichlorobenzene	120-82-1	2	0.272	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trimethylbenzene	108-67-8	2	0.193	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trimethylbenzene	95-63-6	2	0.334	ug/kg	70-130	30	70-130	30	30			
trans-1,4-Dichloro-2-butene	110-57-6	5	1.42	ug/kg	70-130	30	70-130	30	30			
iso-Propyl Alcohol	67-63-0	100	100	ug/kg	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	2	0.341	ug/kg	67-130	30	67-130	30	30			
Methyl Acetate	79-20-9	4	0.950	ug/kg	65-130	30	65-130	30	30			
Ethyl Acetate	141-78-6	10	1.21	ug/kg	70-130	30	70-130	30	30			
Isopropyl Ether	108-20-3	2	0.213	ug/kg	66-130	30	66-130	30	30			
Cyclohexane	110-82-7	10	0.544	ug/kg	70-130	30	70-130	30	30			

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File: PM5047-1
Page: 3

Volatile Organics - EPA 8260C (SOIL-LOW)

Holding Time: 14 days
Container/Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

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File: PM5048-1
Page: 1

Volatile Organics - EPA 8260C (SOIL-HIGH)

Holding Time: 14 days
Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	250	115	ug/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	50	7.25	ug/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	75	7.00	ug/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	50	11.5	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	50	6.25	ug/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	50	7.00	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	50	13.4	ug/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	25	9.80	ug/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	25	6.35	ug/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	200	34.8	ug/kg	70-139	30	70-139	30	30			
1,2-Dichloroethane	107-06-2	50	12.9	ug/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	25	8.35	ug/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	25	5.45	ug/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	50	13.7	ug/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	25	7.90	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropene, Total	542-75-6	25	7.90	ug/kg				30	30			
1,3-Dichloropropene, Total	542-75-6	25	7.90	ug/kg				30	30			
1,1-Dichloropropene	563-58-6	25	7.95	ug/kg	70-130	30	70-130	30	30			
Bromoform	75-25-2	200	12.3	ug/kg	70-130	30	70-130	30	30			
1,1,1,2-Tetrachloroethane	79-34-5	25	8.30	ug/kg	70-130	30	70-130	30	30			
Benzene	71-43-2	25	8.30	ug/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	50	27.2	ug/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	50	7.05	ug/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	200	46.6	ug/kg	52-130	30	52-130	30	30			
Bromomethane	74-83-9	100	29.1	ug/kg	57-147	30	57-147	30	30			
Vinyl chloride	75-01-4	50	16.8	ug/kg	67-130	30	67-130	30	30			
Chloroethane	75-00-3	100	22.6	ug/kg	50-151	30	50-151	30	30			
1,1-Dichloroethene	75-35-4	50	11.9	ug/kg	65-135	30	65-135	30	30			
trans-1,2-Dichloroethene	156-60-5	75	6.85	ug/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	25	6.85	ug/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	100	7.20	ug/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	100	7.40	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	100	8.55	ug/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	100	10.1	ug/kg	66-130	30	66-130	30	30			
p/m-Xylene	179601-23-1	100	28.0	ug/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	50	14.6	ug/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	50	14.6	ug/kg				30	30			
Xylene (Total)	1330-20-7	50	14.6	ug/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	50	8.75	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	50	6.85	ug/kg				30	30			
1,2-Dichloroethene (total)	540-59-0	50	6.85	ug/kg				30	30			
Dibromomethane	74-95-3	100	11.9	ug/kg	70-130	30	70-130	30	30			

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File: PM5048-1
Page: 2

Volatile Organics - EPA 8260C (SOIL-HIGH)

Holding Time: 14 days
Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dichlorobutane	110-56-5	500	11.3	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichloropropane	96-18-4	100	6.35	ug/kg	68-130	30	68-130	30	30			
Styrene	100-42-5	50	9.80	ug/kg	70-130	30	70-130	30	30			
Dichlorodifluoromethane	75-71-8	500	45.8	ug/kg	30-146	30	30-146	30	30			
Acetone	67-64-1	500	241	ug/kg	54-140	30	54-140	30	30			
Carbon disulfide	75-15-0	500	228	ug/kg	59-130	30	59-130	30	30			
2-Butanone	78-93-3	500	111	ug/kg	70-130	30	70-130	30	30			
Vinyl acetate	108-05-4	500	108	ug/kg	70-130	30	70-130	30	30			
4-Methyl-2-pentanone	108-10-1	500	64.0	ug/kg	70-130	30	70-130	30	30			
2-Hexanone	591-78-6	500	59.0	ug/kg	70-130	30	70-130	30	30			
Ethyl methacrylate	97-63-2	500	79.0	ug/kg	70-130	30	70-130	30	30			
Acrylonitrile	107-13-1	200	57.5	ug/kg	70-130	30	70-130	30	30			
Bromochloromethane	74-97-5	100	10.3	ug/kg	70-130	30	70-130	30	30			
Tetrahydrofuran	109-99-9	200	79.5	ug/kg	66-130	30	66-130	30	30			
2,2-Dichloropropane	594-20-7	100	10.1	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromoethane	106-93-4	50	14.0	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropane	142-28-9	100	8.35	ug/kg	69-130	30	69-130	30	30			
1,1,1,2-Tetrachloroethane	630-20-6	25	6.60	ug/kg	70-130	30	70-130	30	30			
Bromobenzene	108-86-1	100	7.25	ug/kg	70-130	30	70-130	30	30			
n-Butylbenzene	104-51-8	50	8.35	ug/kg	70-130	30	70-130	30	30			
sec-Butylbenzene	135-98-8	50	7.30	ug/kg	70-130	30	70-130	30	30			
tert-Butylbenzene	98-06-6	100	5.90	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trichlorobenzene	108-70-3	100	8.65	ug/kg	70-139	30	70-130	30	30			
o-Chlorotoluene	95-49-8	100	9.55	ug/kg	70-130	30	70-130	30	30			
p-Chlorotoluene	106-43-4	100	5.40	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromo-3-chloropropane	96-12-8	150	49.9	ug/kg	68-130	30	68-130	30	30			
Hexachlorobutadiene	87-68-3	200	8.45	ug/kg	67-130	30	67-130	30	30			
Isopropylbenzene	98-82-8	50	5.45	ug/kg	70-130	30	70-130	30	30			
p-Isopropyltoluene	99-87-6	50	5.45	ug/kg	70-130	30	70-130	30	30			
Naphthalene	91-20-3	200	32.5	ug/kg	70-130	30	70-130	30	30			
n-Propylbenzene	103-65-1	50	8.55	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichlorobenzene	87-61-6	100	16.1	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trichlorobenzene	120-82-1	100	13.6	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trimethylbenzene	108-67-8	100	9.65	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trimethylbenzene	95-63-6	100	16.7	ug/kg	70-130	30	70-130	30	30			
trans-1,4-Dichloro-2-butene	110-57-6	250	71.0	ug/kg	70-130	30	70-130	30	30			
iso-Propyl Alcohol	67-63-0	5000	5000	ug/kg	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	100	17.1	ug/kg	67-130	30	67-130	30	30			
Methyl Acetate	79-20-9	200	47.5	ug/kg	65-130	30	65-130	30	30			
Ethyl Acetate	141-78-6	500	60.5	ug/kg	70-130	30	70-130	30	30			
Isopropyl Ether	108-20-3	100	10.7	ug/kg	66-130	30	66-130	30	30			
Cyclohexane	110-82-7	500	27.2	ug/kg	70-130	30	70-130	30	30			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Date Created: 06/19/18
Created By: Jason Hebert
File: PM5048-1
Page: 3

Volatile Organics - EPA 8260C (SOIL-HIGH)

Holding Time: 14 days
Container/Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

[illegible]

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Volatiles Sample Data

Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2040828-01
 Client ID : VTX-110
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : VC201001N18
 Sample Amount : 5.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2040828
 Project Number : 48122
 Date Collected : 09/27/20 11:00
 Date Received : 09/28/20
 Date Analyzed : 10/02/20 01:19
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : CHARLIE
 GC Column : RTX-VMS
 %Solids : 95
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	5.3	2.4	U
75-34-3	1,1-Dichloroethane	ND	1.1	0.15	U
67-66-3	Chloroform	ND	1.6	0.15	U
56-23-5	Carbon tetrachloride	ND	1.1	0.24	U
78-87-5	1,2-Dichloropropane	ND	1.1	0.13	U
124-48-1	Dibromochloromethane	ND	1.1	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.1	0.28	U
127-18-4	Tetrachloroethene	3.0	0.53	0.21	
108-90-7	Chlorobenzene	ND	0.53	0.13	U
75-69-4	Trichlorofluoromethane	ND	4.2	0.74	U
107-06-2	1,2-Dichloroethane	ND	1.1	0.27	U
71-55-6	1,1,1-Trichloroethane	ND	0.53	0.18	U
75-27-4	Bromodichloromethane	ND	0.53	0.12	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.29	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.53	0.17	U
542-75-6	1,3-Dichloropropene, Total	ND	0.53	0.17	U
563-58-6	1,1-Dichloropropene	ND	0.53	0.17	U
75-25-2	Bromoform	ND	4.2	0.26	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.53	0.18	U
71-43-2	Benzene	ND	0.53	0.18	U
108-88-3	Toluene	ND	1.1	0.58	U
100-41-4	Ethylbenzene	ND	1.1	0.15	U
74-87-3	Chloromethane	ND	4.2	0.99	U
74-83-9	Bromomethane	ND	2.1	0.62	U
75-01-4	Vinyl chloride	ND	1.1	0.36	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2040828-01
 Client ID : VTX-110
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : VC201001N18
 Sample Amount : 5.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2040828
 Project Number : 48122
 Date Collected : 09/27/20 11:00
 Date Received : 09/28/20
 Date Analyzed : 10/02/20 01:19
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : CHARLIE
 GC Column : RTX-VMS
 %Solids : 95
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	2.1	0.48	U
75-35-4	1,1-Dichloroethene	ND	1.1	0.25	U
156-60-5	trans-1,2-Dichloroethene	ND	1.6	0.14	U
79-01-6	Trichloroethene	ND	0.53	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	2.1	0.15	U
541-73-1	1,3-Dichlorobenzene	ND	2.1	0.16	U
106-46-7	1,4-Dichlorobenzene	ND	2.1	0.18	U
1634-04-4	Methyl tert butyl ether	ND	2.1	0.21	U
179601-23-1	p/m-Xylene	ND	2.1	0.59	U
95-47-6	o-Xylene	ND	1.1	0.31	U
1330-20-7	Xylenes, Total	ND	1.1	0.31	U
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.18	U
540-59-0	1,2-Dichloroethene, Total	ND	1.1	0.14	U
74-95-3	Dibromomethane	ND	2.1	0.25	U
100-42-5	Styrene	ND	1.1	0.21	U
75-71-8	Dichlorodifluoromethane	ND	11	0.97	U
67-64-1	Acetone	42	11	5.1	
75-15-0	Carbon disulfide	ND	11	4.8	U
78-93-3	2-Butanone	ND	11	2.4	U
108-05-4	Vinyl acetate	ND	11	2.3	U
108-10-1	4-Methyl-2-pentanone	ND	11	1.4	U
96-18-4	1,2,3-Trichloropropane	ND	2.1	0.13	U
591-78-6	2-Hexanone	ND	11	1.2	U
74-97-5	Bromochloromethane	ND	2.1	0.22	U
594-20-7	2,2-Dichloropropane	ND	2.1	0.21	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2040828-01
 Client ID : VTX-110
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : VC201001N18
 Sample Amount : 5.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2040828
 Project Number : 48122
 Date Collected : 09/27/20 11:00
 Date Received : 09/28/20
 Date Analyzed : 10/02/20 01:19
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : CHARLIE
 GC Column : RTX-VMS
 %Solids : 95
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
106-93-4	1,2-Dibromoethane	ND	1.1	0.30	U
142-28-9	1,3-Dichloropropane	ND	2.1	0.18	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.53	0.14	U
108-86-1	Bromobenzene	ND	2.1	0.15	U
104-51-8	n-Butylbenzene	ND	1.1	0.18	U
135-98-8	sec-Butylbenzene	ND	1.1	0.15	U
98-06-6	tert-Butylbenzene	ND	2.1	0.12	U
95-49-8	o-Chlorotoluene	ND	2.1	0.20	U
106-43-4	p-Chlorotoluene	ND	2.1	0.11	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.2	1.0	U
87-68-3	Hexachlorobutadiene	ND	4.2	0.18	U
98-82-8	Isopropylbenzene	ND	1.1	0.12	U
99-87-6	p-Isopropyltoluene	ND	1.1	0.12	U
91-20-3	Naphthalene	ND	4.2	0.69	U
107-13-1	Acrylonitrile	ND	4.2	1.2	U
103-65-1	n-Propylbenzene	ND	1.1	0.18	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.1	0.34	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.1	0.29	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.1	0.20	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.1	0.35	U
123-91-1	1,4-Dioxane	ND	85	37.	U
105-05-5	p-Diethylbenzene	ND	2.1	0.19	U
622-96-8	p-Ethyltoluene	ND	2.1	0.41	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.1	0.20	U
60-29-7	Ethyl ether	ND	2.1	0.36	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2040828-01
 Client ID : VTX-110
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : VC201001N18
 Sample Amount : 5.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2040828
 Project Number : 48122
 Date Collected : 09/27/20 11:00
 Date Received : 09/28/20
 Date Analyzed : 10/02/20 01:19
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : CHARLIE
 GC Column : RTX-VMS
 %Solids : 95
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.3	1.5	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2040828-02
 Client ID : VTX-111
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : VC201001N19
 Sample Amount : 4.6 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2040828
 Project Number : 48122
 Date Collected : 09/27/20 11:45
 Date Received : 09/28/20
 Date Analyzed : 10/02/20 01:46
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : CHARLIE
 GC Column : RTX-VMS
 %Solids : 92
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	5.9	2.7	U
75-34-3	1,1-Dichloroethane	ND	1.2	0.17	U
67-66-3	Chloroform	ND	1.8	0.16	U
56-23-5	Carbon tetrachloride	ND	1.2	0.27	U
78-87-5	1,2-Dichloropropane	ND	1.2	0.15	U
124-48-1	Dibromochloromethane	ND	1.2	0.16	U
79-00-5	1,1,2-Trichloroethane	ND	1.2	0.32	U
127-18-4	Tetrachloroethene	3.2	0.59	0.23	
108-90-7	Chlorobenzene	ND	0.59	0.15	U
75-69-4	Trichlorofluoromethane	ND	4.7	0.82	U
107-06-2	1,2-Dichloroethane	ND	1.2	0.30	U
71-55-6	1,1,1-Trichloroethane	ND	0.59	0.20	U
75-27-4	Bromodichloromethane	ND	0.59	0.13	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	0.32	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.59	0.19	U
542-75-6	1,3-Dichloropropene, Total	ND	0.59	0.19	U
563-58-6	1,1-Dichloropropene	ND	0.59	0.19	U
75-25-2	Bromoform	ND	4.7	0.29	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.59	0.20	U
71-43-2	Benzene	ND	0.59	0.20	U
108-88-3	Toluene	ND	1.2	0.64	U
100-41-4	Ethylbenzene	ND	1.2	0.17	U
74-87-3	Chloromethane	ND	4.7	1.1	U
74-83-9	Bromomethane	ND	2.4	0.69	U
75-01-4	Vinyl chloride	ND	1.2	0.40	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2040828-02
 Client ID : VTX-111
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : VC201001N19
 Sample Amount : 4.6 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2040828
 Project Number : 48122
 Date Collected : 09/27/20 11:45
 Date Received : 09/28/20
 Date Analyzed : 10/02/20 01:46
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : CHARLIE
 GC Column : RTX-VMS
 %Solids : 92
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	2.4	0.54	U
75-35-4	1,1-Dichloroethene	ND	1.2	0.28	U
156-60-5	trans-1,2-Dichloroethene	ND	1.8	0.16	U
79-01-6	Trichloroethene	ND	0.59	0.16	U
95-50-1	1,2-Dichlorobenzene	ND	2.4	0.17	U
541-73-1	1,3-Dichlorobenzene	ND	2.4	0.18	U
106-46-7	1,4-Dichlorobenzene	ND	2.4	0.20	U
1634-04-4	Methyl tert butyl ether	ND	2.4	0.24	U
179601-23-1	p/m-Xylene	ND	2.4	0.66	U
95-47-6	o-Xylene	ND	1.2	0.34	U
1330-20-7	Xylenes, Total	ND	1.2	0.34	U
156-59-2	cis-1,2-Dichloroethene	ND	1.2	0.21	U
540-59-0	1,2-Dichloroethene, Total	ND	1.2	0.16	U
74-95-3	Dibromomethane	ND	2.4	0.28	U
100-42-5	Styrene	ND	1.2	0.23	U
75-71-8	Dichlorodifluoromethane	ND	12	1.1	U
67-64-1	Acetone	150	12	5.7	
75-15-0	Carbon disulfide	ND	12	5.4	U
78-93-3	2-Butanone	38	12	2.6	
108-05-4	Vinyl acetate	ND	12	2.5	U
108-10-1	4-Methyl-2-pentanone	ND	12	1.5	U
96-18-4	1,2,3-Trichloropropane	ND	2.4	0.15	U
591-78-6	2-Hexanone	ND	12	1.4	U
74-97-5	Bromochloromethane	ND	2.4	0.24	U
594-20-7	2,2-Dichloropropane	ND	2.4	0.24	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2040828-02
 Client ID : VTX-111
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : VC201001N19
 Sample Amount : 4.6 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2040828
 Project Number : 48122
 Date Collected : 09/27/20 11:45
 Date Received : 09/28/20
 Date Analyzed : 10/02/20 01:46
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : CHARLIE
 GC Column : RTX-VMS
 %Solids : 92
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
106-93-4	1,2-Dibromoethane	ND	1.2	0.33	U
142-28-9	1,3-Dichloropropane	ND	2.4	0.20	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.59	0.16	U
108-86-1	Bromobenzene	ND	2.4	0.17	U
104-51-8	n-Butylbenzene	ND	1.2	0.20	U
135-98-8	sec-Butylbenzene	ND	1.2	0.17	U
98-06-6	tert-Butylbenzene	ND	2.4	0.14	U
95-49-8	o-Chlorotoluene	ND	2.4	0.23	U
106-43-4	p-Chlorotoluene	ND	2.4	0.13	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.6	1.2	U
87-68-3	Hexachlorobutadiene	ND	4.7	0.20	U
98-82-8	Isopropylbenzene	ND	1.2	0.13	U
99-87-6	p-Isopropyltoluene	ND	1.2	0.13	U
91-20-3	Naphthalene	ND	4.7	0.77	U
107-13-1	Acrylonitrile	ND	4.7	1.4	U
103-65-1	n-Propylbenzene	ND	1.2	0.20	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.4	0.38	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.4	0.32	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.4	0.23	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.4	0.40	U
123-91-1	1,4-Dioxane	ND	95	42.	U
105-05-5	p-Diethylbenzene	ND	2.4	0.21	U
622-96-8	p-Ethyltoluene	ND	2.4	0.46	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.4	0.23	U
60-29-7	Ethyl ether	ND	2.4	0.40	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2040828-02
 Client ID : VTX-111
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : VC201001N19
 Sample Amount : 4.6 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2040828
 Project Number : 48122
 Date Collected : 09/27/20 11:45
 Date Received : 09/28/20
 Date Analyzed : 10/02/20 01:46
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : CHARLIE
 GC Column : RTX-VMS
 %Solids : 92
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.9	1.7	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2040828-03
 Client ID : VTX-112
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : VC201001N20
 Sample Amount : 5.2 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2040828
 Project Number : 48122
 Date Collected : 09/27/20 13:05
 Date Received : 09/28/20
 Date Analyzed : 10/02/20 02:13
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : CHARLIE
 GC Column : RTX-VMS
 %Solids : 92
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	5.2	2.4	U
75-34-3	1,1-Dichloroethane	ND	1.0	0.15	U
67-66-3	Chloroform	ND	1.6	0.15	U
56-23-5	Carbon tetrachloride	ND	1.0	0.24	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.13	U
124-48-1	Dibromochloromethane	ND	1.0	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	U
127-18-4	Tetrachloroethene	5.3	0.52	0.20	
108-90-7	Chlorobenzene	ND	0.52	0.13	U
75-69-4	Trichlorofluoromethane	ND	4.2	0.72	U
107-06-2	1,2-Dichloroethane	ND	1.0	0.27	U
71-55-6	1,1,1-Trichloroethane	ND	0.52	0.17	U
75-27-4	Bromodichloromethane	ND	0.52	0.11	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.28	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.52	0.16	U
542-75-6	1,3-Dichloropropene, Total	ND	0.52	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.52	0.16	U
75-25-2	Bromoform	ND	4.2	0.26	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.52	0.17	U
71-43-2	Benzene	ND	0.52	0.17	U
108-88-3	Toluene	ND	1.0	0.57	U
100-41-4	Ethylbenzene	ND	1.0	0.15	U
74-87-3	Chloromethane	ND	4.2	0.97	U
74-83-9	Bromomethane	ND	2.1	0.60	U
75-01-4	Vinyl chloride	ND	1.0	0.35	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2040828-03
 Client ID : VTX-112
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : VC201001N20
 Sample Amount : 5.2 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2040828
 Project Number : 48122
 Date Collected : 09/27/20 13:05
 Date Received : 09/28/20
 Date Analyzed : 10/02/20 02:13
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : CHARLIE
 GC Column : RTX-VMS
 %Solids : 92
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	2.1	0.47	U
75-35-4	1,1-Dichloroethene	ND	1.0	0.25	U
156-60-5	trans-1,2-Dichloroethene	ND	1.6	0.14	U
79-01-6	Trichloroethene	ND	0.52	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	2.1	0.15	U
541-73-1	1,3-Dichlorobenzene	ND	2.1	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	2.1	0.18	U
1634-04-4	Methyl tert butyl ether	ND	2.1	0.21	U
179601-23-1	p/m-Xylene	ND	2.1	0.58	U
95-47-6	o-Xylene	ND	1.0	0.30	U
1330-20-7	Xylenes, Total	ND	1.0	0.30	U
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	U
540-59-0	1,2-Dichloroethene, Total	ND	1.0	0.14	U
74-95-3	Dibromomethane	ND	2.1	0.25	U
100-42-5	Styrene	ND	1.0	0.20	U
75-71-8	Dichlorodifluoromethane	ND	10	0.95	U
67-64-1	Acetone	160	10	5.0	
75-15-0	Carbon disulfide	ND	10	4.7	U
78-93-3	2-Butanone	230	10	2.3	
108-05-4	Vinyl acetate	ND	10	2.2	U
108-10-1	4-Methyl-2-pentanone	ND	10	1.3	U
96-18-4	1,2,3-Trichloropropane	ND	2.1	0.13	U
591-78-6	2-Hexanone	ND	10	1.2	U
74-97-5	Bromochloromethane	ND	2.1	0.21	U
594-20-7	2,2-Dichloropropane	ND	2.1	0.21	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2040828-03
 Client ID : VTX-112
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : VC201001N20
 Sample Amount : 5.2 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2040828
 Project Number : 48122
 Date Collected : 09/27/20 13:05
 Date Received : 09/28/20
 Date Analyzed : 10/02/20 02:13
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : CHARLIE
 GC Column : RTX-VMS
 %Solids : 92
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
106-93-4	1,2-Dibromoethane	ND	1.0	0.29	U
142-28-9	1,3-Dichloropropane	ND	2.1	0.17	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.52	0.14	U
108-86-1	Bromobenzene	ND	2.1	0.15	U
104-51-8	n-Butylbenzene	ND	1.0	0.17	U
135-98-8	sec-Butylbenzene	ND	1.0	0.15	U
98-06-6	tert-Butylbenzene	ND	2.1	0.12	U
95-49-8	o-Chlorotoluene	ND	2.1	0.20	U
106-43-4	p-Chlorotoluene	ND	2.1	0.11	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.1	1.0	U
87-68-3	Hexachlorobutadiene	ND	4.2	0.18	U
98-82-8	Isopropylbenzene	ND	1.0	0.11	U
99-87-6	p-Isopropyltoluene	ND	1.0	0.11	U
91-20-3	Naphthalene	ND	4.2	0.68	U
107-13-1	Acrylonitrile	ND	4.2	1.2	U
103-65-1	n-Propylbenzene	ND	1.0	0.18	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.1	0.34	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.1	0.28	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.1	0.20	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.1	0.35	U
123-91-1	1,4-Dioxane	ND	83	37.	U
105-05-5	p-Diethylbenzene	ND	2.1	0.18	U
622-96-8	p-Ethyltoluene	ND	2.1	0.40	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.1	0.20	U
60-29-7	Ethyl ether	ND	2.1	0.36	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2040828-03
 Client ID : VTX-112
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : VC201001N20
 Sample Amount : 5.2 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2040828
 Project Number : 48122
 Date Collected : 09/27/20 13:05
 Date Received : 09/28/20
 Date Analyzed : 10/02/20 02:13
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : CHARLIE
 GC Column : RTX-VMS
 %Solids : 92
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.2	1.5	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2040828-04
 Client ID : RF-9-PX
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : VC201001N21
 Sample Amount : 4.8 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2040828
 Project Number : 48122
 Date Collected : 09/27/20 14:10
 Date Received : 09/28/20
 Date Analyzed : 10/02/20 02:40
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : CHARLIE
 GC Column : RTX-VMS
 %Solids : 96
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	5.5	2.5	U
75-34-3	1,1-Dichloroethane	ND	1.1	0.16	U
67-66-3	Chloroform	ND	1.6	0.15	U
56-23-5	Carbon tetrachloride	ND	1.1	0.25	U
78-87-5	1,2-Dichloropropane	ND	1.1	0.14	U
124-48-1	Dibromochloromethane	ND	1.1	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.1	0.29	U
127-18-4	Tetrachloroethene	0.74	0.55	0.21	
108-90-7	Chlorobenzene	ND	0.55	0.14	U
75-69-4	Trichlorofluoromethane	ND	4.4	0.76	U
107-06-2	1,2-Dichloroethane	ND	1.1	0.28	U
71-55-6	1,1,1-Trichloroethane	ND	0.55	0.18	U
75-27-4	Bromodichloromethane	ND	0.55	0.12	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.30	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.55	0.17	U
542-75-6	1,3-Dichloropropene, Total	ND	0.55	0.17	U
563-58-6	1,1-Dichloropropene	ND	0.55	0.17	U
75-25-2	Bromoform	ND	4.4	0.27	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.55	0.18	U
71-43-2	Benzene	ND	0.55	0.18	U
108-88-3	Toluene	ND	1.1	0.59	U
100-41-4	Ethylbenzene	ND	1.1	0.15	U
74-87-3	Chloromethane	ND	4.4	1.0	U
74-83-9	Bromomethane	ND	2.2	0.64	U
75-01-4	Vinyl chloride	ND	1.1	0.37	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2040828-04
 Client ID : RF-9-PX
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : VC201001N21
 Sample Amount : 4.8 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2040828
 Project Number : 48122
 Date Collected : 09/27/20 14:10
 Date Received : 09/28/20
 Date Analyzed : 10/02/20 02:40
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : CHARLIE
 GC Column : RTX-VMS
 %Solids : 96
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	2.2	0.50	U
75-35-4	1,1-Dichloroethene	ND	1.1	0.26	U
156-60-5	trans-1,2-Dichloroethene	ND	1.6	0.15	U
79-01-6	Trichloroethene	ND	0.55	0.15	U
95-50-1	1,2-Dichlorobenzene	ND	2.2	0.16	U
541-73-1	1,3-Dichlorobenzene	ND	2.2	0.16	U
106-46-7	1,4-Dichlorobenzene	ND	2.2	0.19	U
1634-04-4	Methyl tert butyl ether	ND	2.2	0.22	U
179601-23-1	p/m-Xylene	ND	2.2	0.61	U
95-47-6	o-Xylene	ND	1.1	0.32	U
1330-20-7	Xylenes, Total	ND	1.1	0.32	U
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.19	U
540-59-0	1,2-Dichloroethene, Total	ND	1.1	0.15	U
74-95-3	Dibromomethane	ND	2.2	0.26	U
100-42-5	Styrene	ND	1.1	0.21	U
75-71-8	Dichlorodifluoromethane	ND	11	1.0	U
67-64-1	Acetone	55	11	5.3	
75-15-0	Carbon disulfide	ND	11	5.0	U
78-93-3	2-Butanone	18	11	2.4	
108-05-4	Vinyl acetate	ND	11	2.4	U
108-10-1	4-Methyl-2-pentanone	ND	11	1.4	U
96-18-4	1,2,3-Trichloropropane	ND	2.2	0.14	U
591-78-6	2-Hexanone	ND	11	1.3	U
74-97-5	Bromochloromethane	ND	2.2	0.22	U
594-20-7	2,2-Dichloropropane	ND	2.2	0.22	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2040828-04
 Client ID : RF-9-PX
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : VC201001N21
 Sample Amount : 4.8 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2040828
 Project Number : 48122
 Date Collected : 09/27/20 14:10
 Date Received : 09/28/20
 Date Analyzed : 10/02/20 02:40
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : CHARLIE
 GC Column : RTX-VMS
 %Solids : 96
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
106-93-4	1,2-Dibromoethane	ND	1.1	0.30	U
142-28-9	1,3-Dichloropropane	ND	2.2	0.18	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.55	0.14	U
108-86-1	Bromobenzene	ND	2.2	0.16	U
104-51-8	n-Butylbenzene	ND	1.1	0.18	U
135-98-8	sec-Butylbenzene	ND	1.1	0.16	U
98-06-6	tert-Butylbenzene	ND	2.2	0.13	U
95-49-8	o-Chlorotoluene	ND	2.2	0.21	U
106-43-4	p-Chlorotoluene	ND	2.2	0.12	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.3	1.1	U
87-68-3	Hexachlorobutadiene	ND	4.4	0.18	U
98-82-8	Isopropylbenzene	ND	1.1	0.12	U
99-87-6	p-Isopropyltoluene	ND	1.1	0.12	U
91-20-3	Naphthalene	ND	4.4	0.71	U
107-13-1	Acrylonitrile	ND	4.4	1.2	U
103-65-1	n-Propylbenzene	ND	1.1	0.19	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.2	0.35	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.2	0.30	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.2	0.21	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.2	0.36	U
123-91-1	1,4-Dioxane	ND	88	38.	U
105-05-5	p-Diethylbenzene	ND	2.2	0.19	U
622-96-8	p-Ethyltoluene	ND	2.2	0.42	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.2	0.21	U
60-29-7	Ethyl ether	ND	2.2	0.37	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2040828-04
 Client ID : RF-9-PX
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : VC201001N21
 Sample Amount : 4.8 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2040828
 Project Number : 48122
 Date Collected : 09/27/20 14:10
 Date Received : 09/28/20
 Date Analyzed : 10/02/20 02:40
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : CHARLIE
 GC Column : RTX-VMS
 %Solids : 96
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.5	1.6	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : WG1417205-5
 Client ID : WG1417205-5BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : VC201001N04
 Sample Amount : 5.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2040828
 Project Number : 48122
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 10/01/20 18:59
 Dilution Factor : 1
 Analyst : AD
 Instrument ID : CHARLIE
 GC Column : RTX-VMS
 %Solids : NA
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	5.0	2.3	U
75-34-3	1,1-Dichloroethane	ND	1.0	0.14	U
67-66-3	Chloroform	ND	1.5	0.14	U
56-23-5	Carbon tetrachloride	ND	1.0	0.23	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.12	U
124-48-1	Dibromochloromethane	ND	1.0	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.27	U
127-18-4	Tetrachloroethene	ND	0.50	0.20	U
108-90-7	Chlorobenzene	ND	0.50	0.13	U
75-69-4	Trichlorofluoromethane	ND	4.0	0.70	U
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.17	U
75-27-4	Bromodichloromethane	ND	0.50	0.11	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.27	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.50	0.16	U
75-25-2	Bromoform	ND	4.0	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.17	U
108-88-3	Toluene	ND	1.0	0.54	U
100-41-4	Ethylbenzene	ND	1.0	0.14	U
74-87-3	Chloromethane	ND	4.0	0.93	U
74-83-9	Bromomethane	1.2	2.0	0.58	J
75-01-4	Vinyl chloride	ND	1.0	0.34	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : WG1417205-5
 Client ID : WG1417205-5BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : VC201001N04
 Sample Amount : 5.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2040828
 Project Number : 48122
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 10/01/20 18:59
 Dilution Factor : 1
 Analyst : AD
 Instrument ID : CHARLIE
 GC Column : RTX-VMS
 %Solids : NA
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	2.0	0.45	U
75-35-4	1,1-Dichloroethene	ND	1.0	0.24	U
156-60-5	trans-1,2-Dichloroethene	ND	1.5	0.14	U
79-01-6	Trichloroethene	ND	0.50	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.17	U
1634-04-4	Methyl tert butyl ether	ND	2.0	0.20	U
179601-23-1	p/m-Xylene	ND	2.0	0.56	U
95-47-6	o-Xylene	ND	1.0	0.29	U
1330-20-7	Xylenes, Total	ND	1.0	0.29	U
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	U
540-59-0	1,2-Dichloroethene, Total	ND	1.0	0.14	U
74-95-3	Dibromomethane	ND	2.0	0.24	U
100-42-5	Styrene	ND	1.0	0.20	U
75-71-8	Dichlorodifluoromethane	ND	10	0.92	U
67-64-1	Acetone	ND	10	4.8	U
75-15-0	Carbon disulfide	ND	10	4.6	U
78-93-3	2-Butanone	ND	10	2.2	U
108-05-4	Vinyl acetate	ND	10	2.2	U
108-10-1	4-Methyl-2-pentanone	ND	10	1.3	U
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.13	U
591-78-6	2-Hexanone	ND	10	1.2	U
74-97-5	Bromochloromethane	ND	2.0	0.20	U
594-20-7	2,2-Dichloropropane	ND	2.0	0.20	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : WG1417205-5
 Client ID : WG1417205-5BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : VC201001N04
 Sample Amount : 5.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2040828
 Project Number : 48122
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 10/01/20 18:59
 Dilution Factor : 1
 Analyst : AD
 Instrument ID : CHARLIE
 GC Column : RTX-VMS
 %Solids : NA
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
106-93-4	1,2-Dibromoethane	ND	1.0	0.28	U
142-28-9	1,3-Dichloropropane	ND	2.0	0.17	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	U
108-86-1	Bromobenzene	ND	2.0	0.14	U
104-51-8	n-Butylbenzene	ND	1.0	0.17	U
135-98-8	sec-Butylbenzene	ND	1.0	0.15	U
98-06-6	tert-Butylbenzene	ND	2.0	0.12	U
95-49-8	o-Chlorotoluene	ND	2.0	0.19	U
106-43-4	p-Chlorotoluene	ND	2.0	0.11	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.0	1.0	U
87-68-3	Hexachlorobutadiene	ND	4.0	0.17	U
98-82-8	Isopropylbenzene	ND	1.0	0.11	U
99-87-6	p-Isopropyltoluene	ND	1.0	0.11	U
91-20-3	Naphthalene	ND	4.0	0.65	U
107-13-1	Acrylonitrile	ND	4.0	1.2	U
103-65-1	n-Propylbenzene	ND	1.0	0.17	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.32	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.27	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.19	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.33	U
123-91-1	1,4-Dioxane	ND	80	35.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.18	U
622-96-8	p-Ethyltoluene	ND	2.0	0.38	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.19	U
60-29-7	Ethyl ether	ND	2.0	0.34	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : WG1417205-5
 Client ID : WG1417205-5BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : VC201001N04
 Sample Amount : 5.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2040828
 Project Number : 48122
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 10/01/20 18:59
 Dilution Factor : 1
 Analyst : AD
 Instrument ID : CHARLIE
 GC Column : RTX-VMS
 %Solids : NA
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.0	1.4	U



Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N18.D
 Acq On : 2 Oct 2020 1:19 am
 Operator : CHARLIE:MV
 Sample : 12040828-01,31,4.97,5,,y
 Misc : WG1417205,ICAL17178
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 02 05:04:39 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\201001N\VC201001N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.038	96	139781	20.000	ug/L	0.00
Standard Area 1 = 153806			Recovery =	90.88%		
59) Chlorobenzene-d5	9.566	117	113551	20.000	ug/L	0.00
Standard Area 1 = 132392			Recovery =	85.77%		
79) 1,4-Dichlorobenzene-d4	12.256	152	59638	20.000	ug/L	0.00
Standard Area 1 = 78752			Recovery =	75.73%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.230	113	34842	18.675	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	93.38%		
43) 1,2-Dichloroethane-d4	5.755	65	28602	17.790	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	88.95%		
60) Toluene-d8	7.726	98	140863	20.897	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	104.48%		
83) 4-Bromofluorobenzene	11.055	95	42800	21.118	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	105.59%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.828	50	61	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.221	94	685	0.264	ug/L	90
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
15) Methylene chloride	3.521	84	547	0.265	ug/L	90
17) Acetone	3.563	43	13877	39.284	ug/L	99
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N18.D
 Acq On : 2 Oct 2020 1:19 am
 Operator : CHARLIE:MV
 Sample : 12040828-01,31,4.97,5,,y
 Misc : WG1417205,ICAL17178
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 02 05:04:39 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\201001N\VC201001N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	d
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	0.000		0		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	8.240	166	6671	2.865	ug/L	97
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	0.000		0		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	11.061	91	57		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	0.000		0		N.D.	
89) 2-Chlorotoluene	0.000		0		N.D.	
90) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	0.000		0		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N18.D
 Acq On : 2 Oct 2020 1:19 am
 Operator : CHARLIE:MV
 Sample : 12040828-01,31,4.97,5,,y
 Misc : WG1417205,ICAL17178
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 02 05:04:39 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\201001N\VC201001N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	0.000		0		N.D.	
98)	sec-Butylbenzene	0.000		0		N.D.	
99)	p-Isopropyltoluene	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
105)	1,2,4,5-Tetramethylben...	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
110)	Naphthalene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

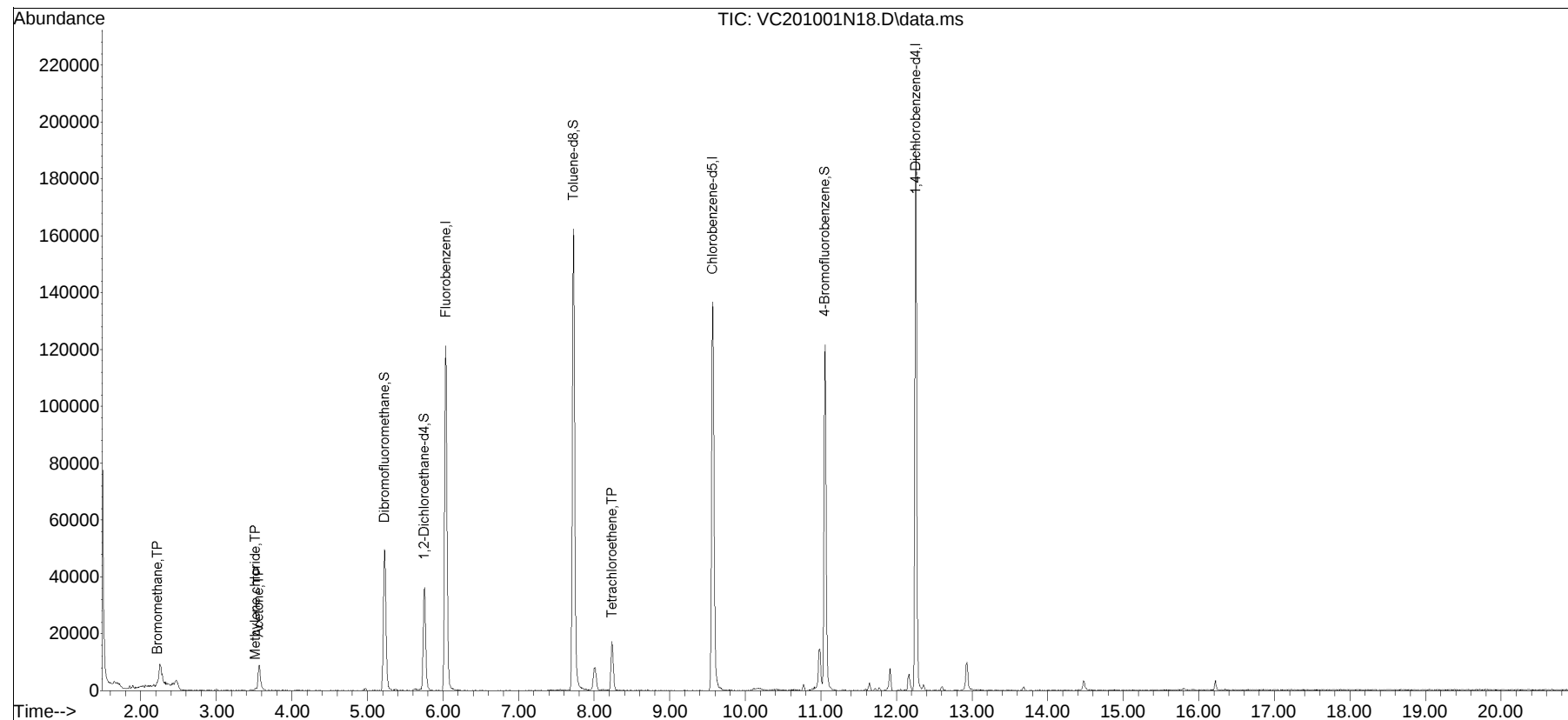
(#) = qualifier out of range (m) = manual integration (+) = signals summed

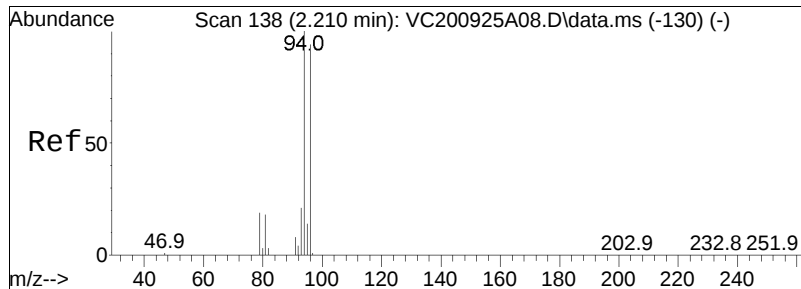
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N18.D
 Acq On : 2 Oct 2020 1:19 am
 Operator : CHARLIE:MV
 Sample : 12040828-01,31,4.97,5,,y
 Misc : WG1417205,ICAL17178
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 02 05:04:39 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

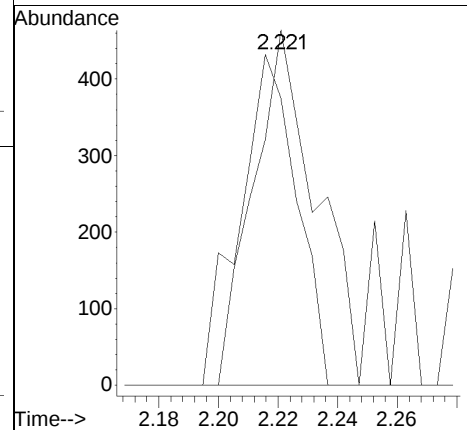
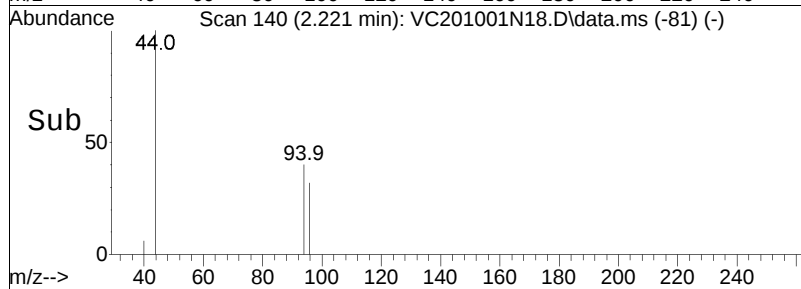
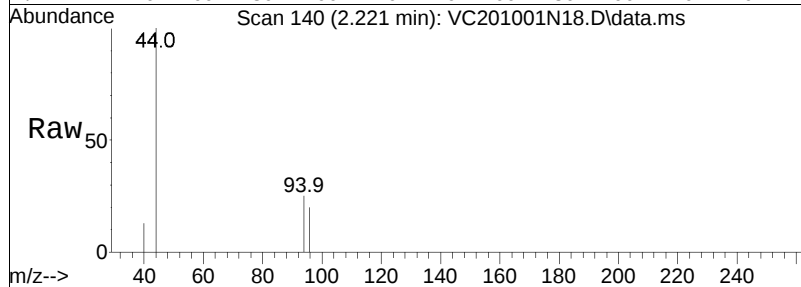
Sub List : 8260-NYTCL - Megamix plus Diox201001N\VC201001N01.D•

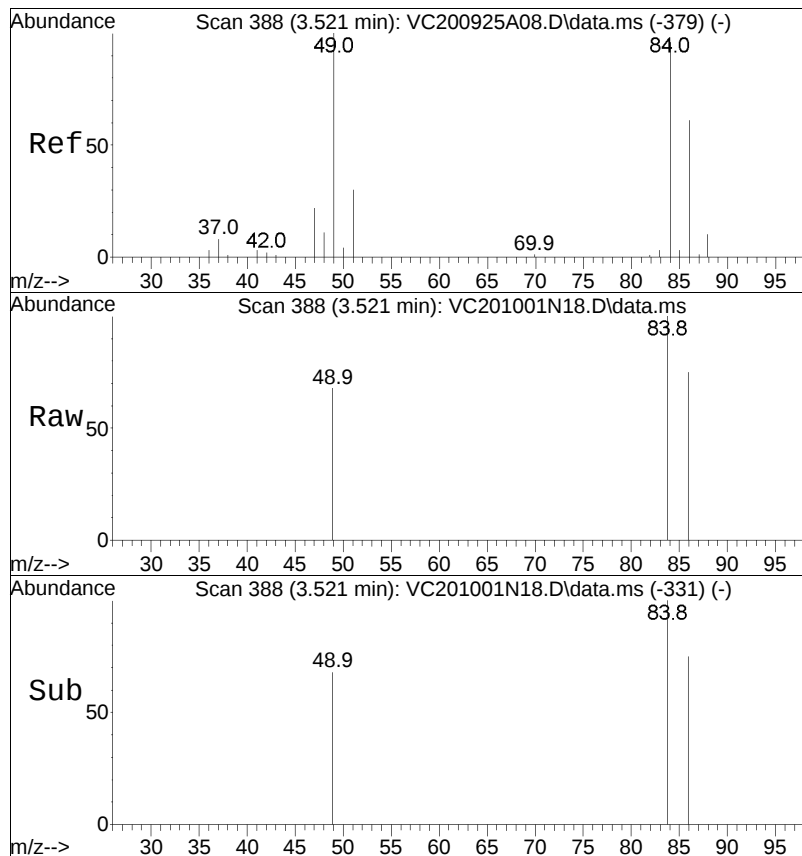




#5
 Bromomethane
 Concen: 0.26 ug/L
 RT: 2.221 min Scan# 140
 Delta R.T. 0.011 min
 Lab File: VC201001N18.D
 Acq: 2 Oct 2020 1:19 am

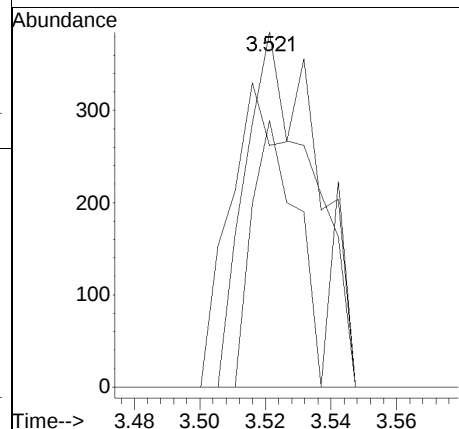
Tgt Ion: 94 Resp: 685
 Ion Ratio Lower Upper
 94 100
 96 84.4 73.8 113.8

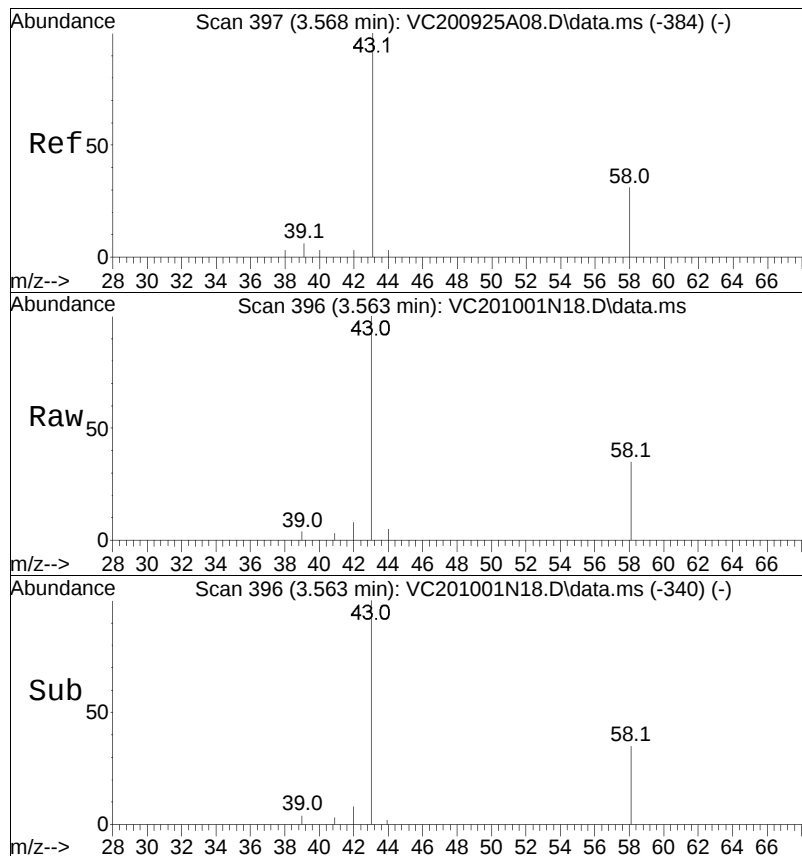




#15
 Methylene chloride
 Concen: 0.27 ug/L
 RT: 3.521 min Scan# 388
 Delta R.T. 0.000 min
 Lab File: VC201001N18.D
 Acq: 2 Oct 2020 1:19 am

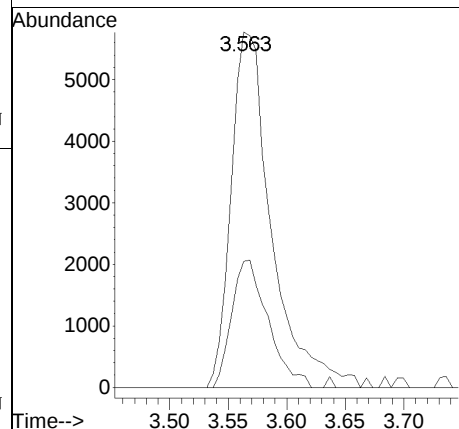
Tgt Ion:	84	Resp:	547
Ion Ratio	Lower	Upper	
84	100		
86	50.5	41.9	86.9
49	113.7	70.3	146.1

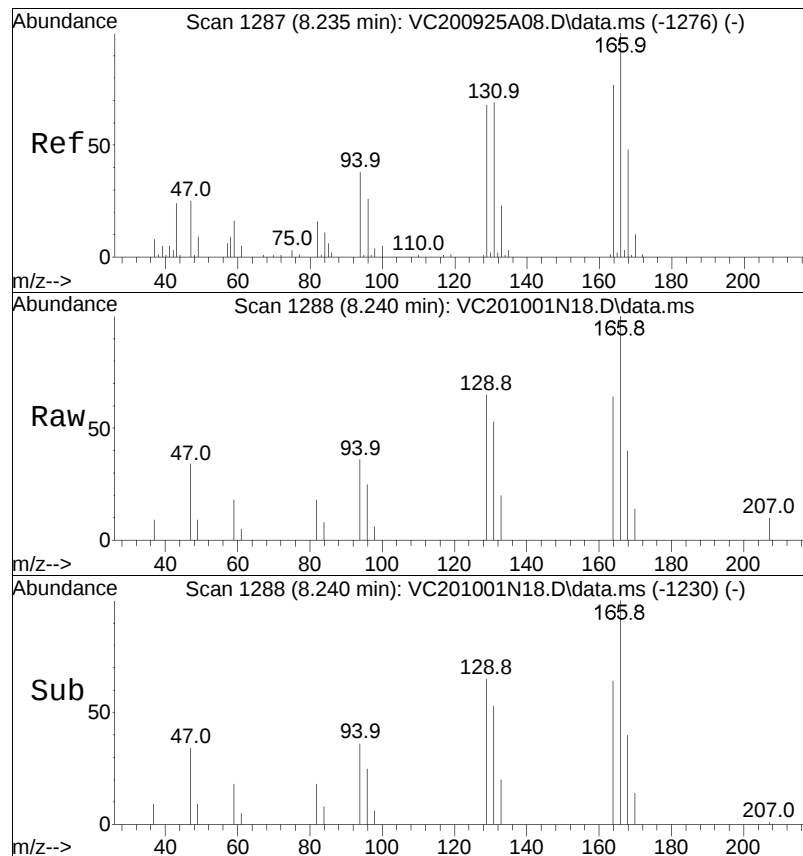




#17
 Acetone
 Concen: 39.28 ug/L
 RT: 3.563 min Scan# 396
 Delta R.T. -0.005 min
 Lab File: VC201001N18.D
 Acq: 2 Oct 2020 1:19 am

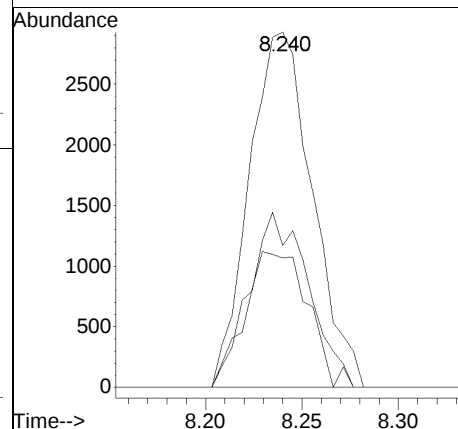
Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.3	25.4	38.2





#63
Tetrachloroethene
Concen: 2.87 ug/L
RT: 8.240 min Scan# 1288
Delta R.T. 0.005 min
Lab File: VC201001N18.D
Acq: 2 Oct 2020 1:19 am

Tgt	Ion:166	Resp:	6671
Ion	Ratio	Lower	Upper
166	100		
168	46.3	26.4	66.4
94	38.2	21.5	61.5



Manual Integration Report

Data Path : I:\VOLATILES\Charlie\2020\QMethod : C_200925A_8260.m
Data File : VC201001N18.D Operator : CHARLIE:MV
Date Inj'd : 10/2/2020 1:19 am Instrument : Charlie
Sample : 12040828-01,31,4.97,5,,y Quant Date : 10/2/2020 4:32 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N19.D
 Acq On : 2 Oct 2020 1:46 am
 Operator : CHARLIE:MV
 Sample : 12040828-02,31,4.60,5,,y
 Misc : WG1417205,ICAL17178
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 02 05:05:06 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\201001N\VC201001N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.038	96	134771	20.000	ug/L	0.00
Standard Area 1 = 153806			Recovery =	87.62%		
59) Chlorobenzene-d5	9.566	117	109559	20.000	ug/L	0.00
Standard Area 1 = 132392			Recovery =	82.75%		
79) 1,4-Dichlorobenzene-d4	12.256	152	58142	20.000	ug/L	0.00
Standard Area 1 = 78752			Recovery =	73.83%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.225	113	31855	17.709	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	88.55%		
43) 1,2-Dichloroethane-d4	5.749	65	26843	17.316	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	86.58%		
60) Toluene-d8	7.726	98	134081	20.616	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	103.08%		
83) 4-Bromofluorobenzene	11.055	95	41648	21.079	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	105.40%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.226	94	429	0.171	ug/L	100
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
15) Methylene chloride	3.521	84	384	0.193	ug/L	88
17) Acetone	3.563	43	41689	129.988	ug/L	96
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N19.D
 Acq On : 2 Oct 2020 1:46 am
 Operator : CHARLIE:MV
 Sample : 12040828-02,31,4.60,5,,y
 Misc : WG1417205,ICAL17178
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 02 05:05:06 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\201001N\VC201001N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0	N.D.		
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	5.340	43	19672	32.444	ug/L	87
40) 1,1-Dichloropropene	0.000		0	N.D.		
41) Benzene	0.000		0	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.		
48) Trichloroethene	0.000		0	N.D.		
50) Dibromomethane	0.000		0	N.D.		
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
57) 1,4-Dioxane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	0.000		0	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	8.234	166	6034	2.686	ug/L	99
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
70) 1,3-Dichloropropane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	0.000		0	N.D.		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	0.000		0	N.D.		
75) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	0.000		0	N.D.		
84) Bromobenzene	0.000		0	N.D.		
85) n-Propylbenzene	11.060	91	55	N.D.		
87) 1,1,2,2-Tetrachloroethane	11.475	83	54	Below Cal	#	25
88) 4-Ethyltoluene	0.000		0	N.D.		
89) 2-Chlorotoluene	0.000		0	N.D.		
90) 1,3,5-Trimethylbenzene	0.000		0	N.D.		
91) 1,2,3-Trichloropropane	0.000		0	N.D.		
92) trans-1,4-Dichloro-2-b...	0.000		0	N.D.		
93) 4-Chlorotoluene	0.000		0	N.D.		
94) tert-Butylbenzene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N19.D
 Acq On : 2 Oct 2020 1:46 am
 Operator : CHARLIE:MV
 Sample : 12040828-02,31,4.60,5,,y
 Misc : WG1417205,ICAL17178
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 02 05:05:06 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\201001N\VC201001N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

97)	1,2,4-Trimethylbenzene	0.000		0		N.D.	
98)	sec-Butylbenzene	0.000		0		N.D.	
99)	p-Isopropyltoluene	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
105)	1,2,4,5-Tetramethylben...	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
110)	Naphthalene	14.406	128	53		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

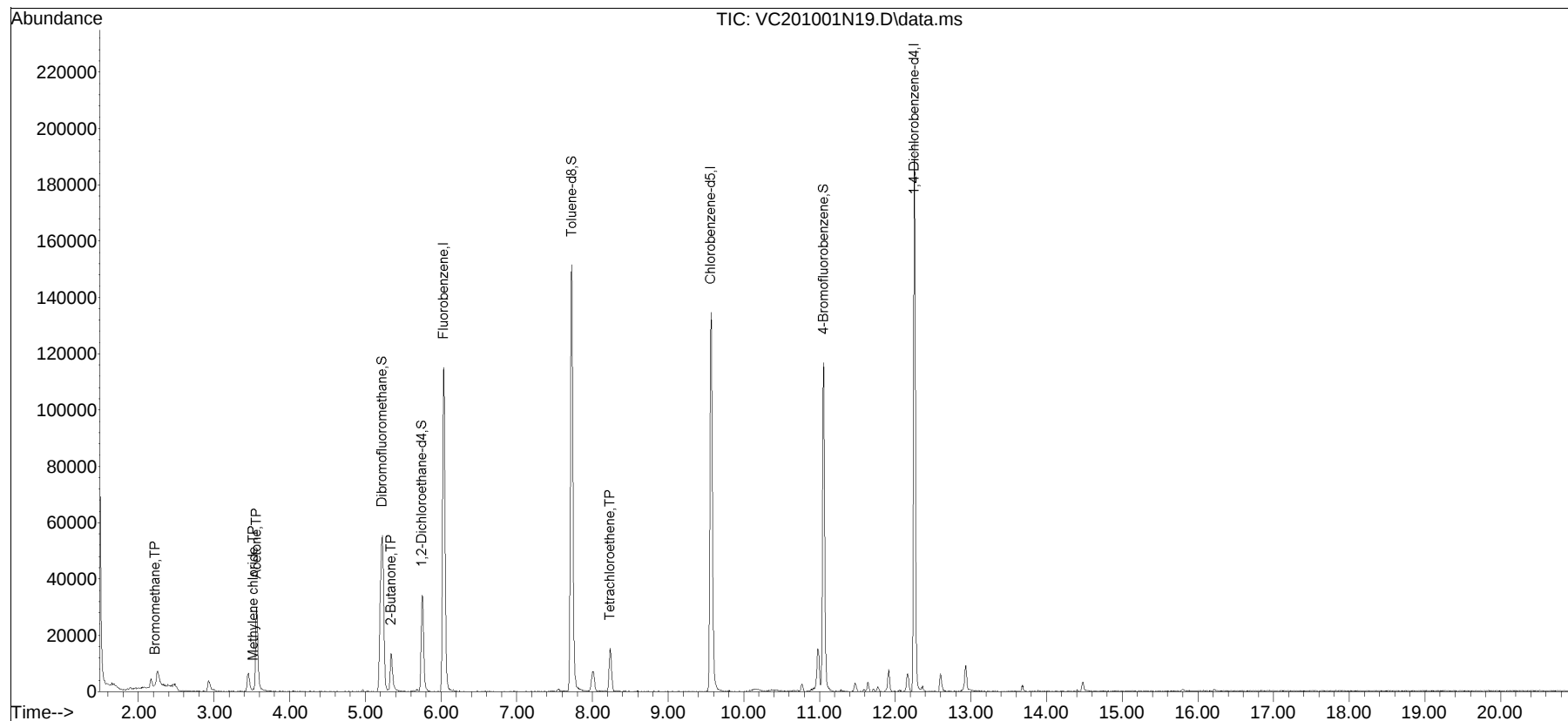
(#) = qualifier out of range (m) = manual integration (+) = signals summed

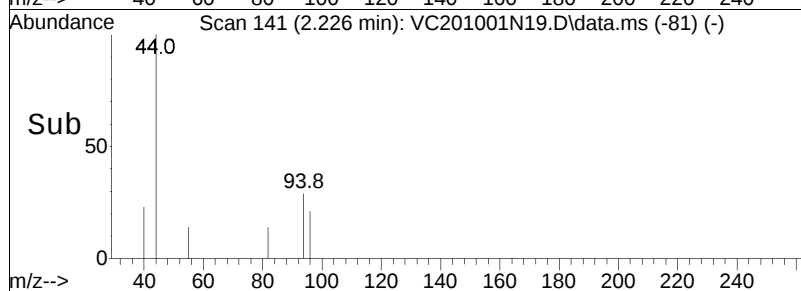
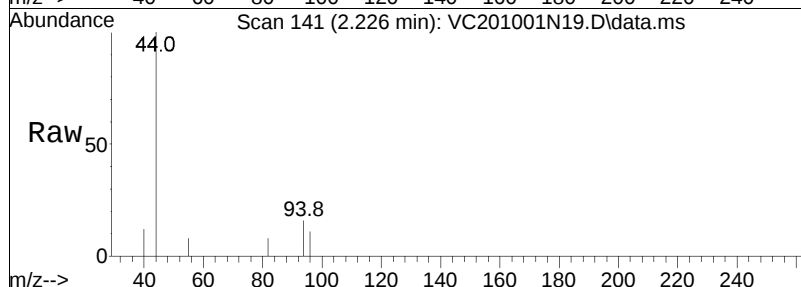
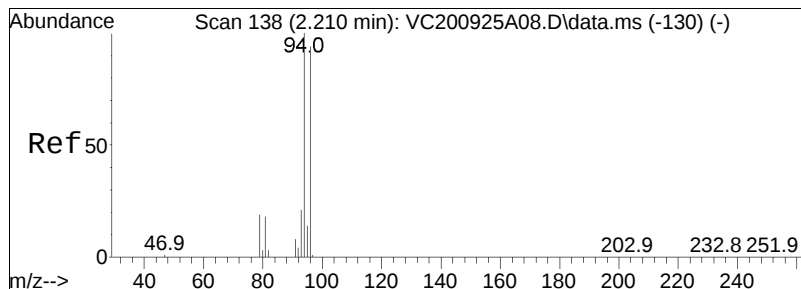
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N19.D
 Acq On : 2 Oct 2020 1:46 am
 Operator : CHARLIE:MV
 Sample : 12040828-02,31,4.60,5,,y
 Misc : WG1417205,ICAL17178
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 02 05:05:06 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

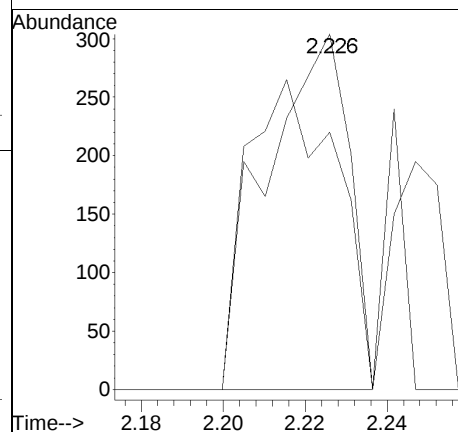
Sub List : 8260-NYTCL - Megamix plus Diox201001N\VC201001N01.D•

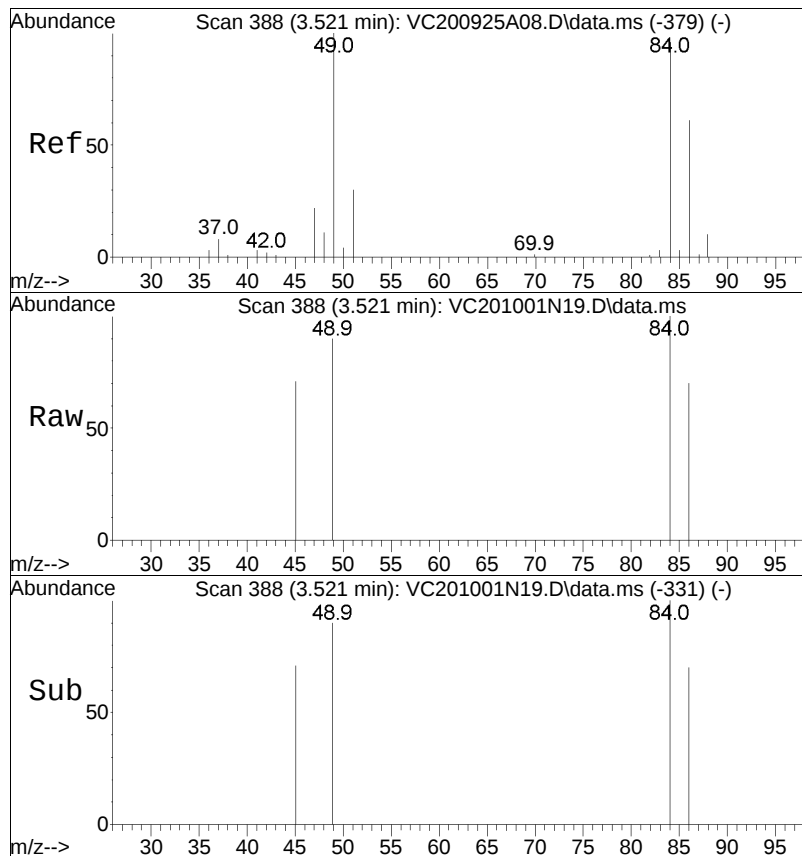




#5
 Bromomethane
 Concen: 0.17 ug/L
 RT: 2.226 min Scan# 141
 Delta R.T. 0.016 min
 Lab File: VC201001N19.D
 Acq: 2 Oct 2020 1:46 am

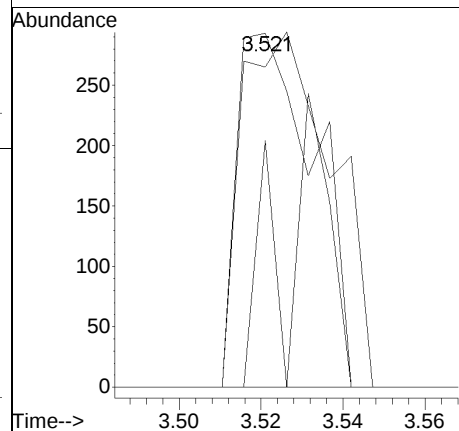
Tgt Ion: 94 Resp: 429
 Ion Ratio Lower Upper
 94 100
 96 93.5 73.8 113.8

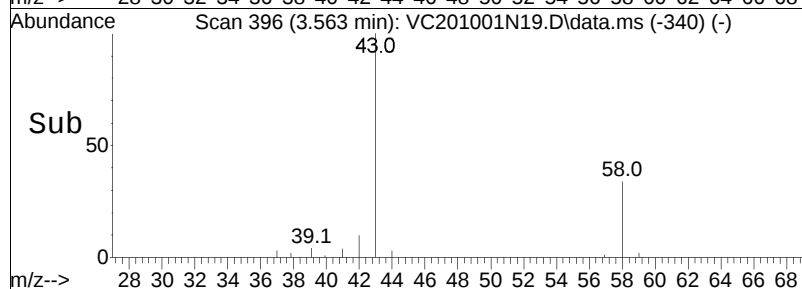
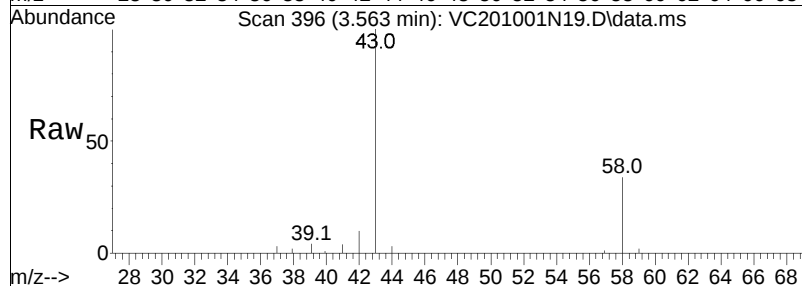
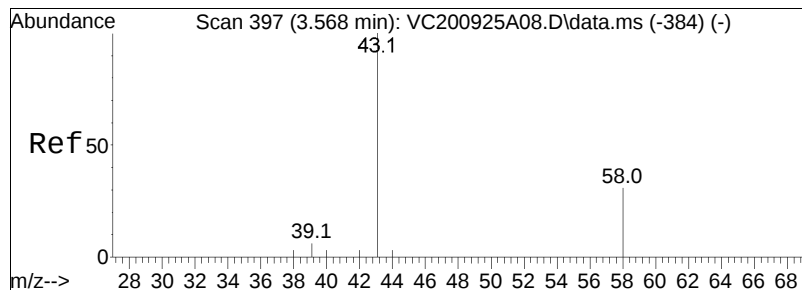




#15
Methylene chloride
Concen: 0.19 ug/L
RT: 3.521 min Scan# 388
Delta R.T. -0.000 min
Lab File: VC201001N19.D
Acq: 2 Oct 2020 1:46 am

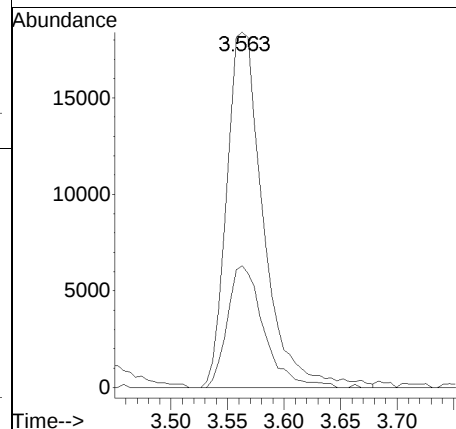
Tgt Ion	Ratio	Lower	Upper
84	100		
86	49.2	41.9	86.9
49	116.9	70.3	146.1

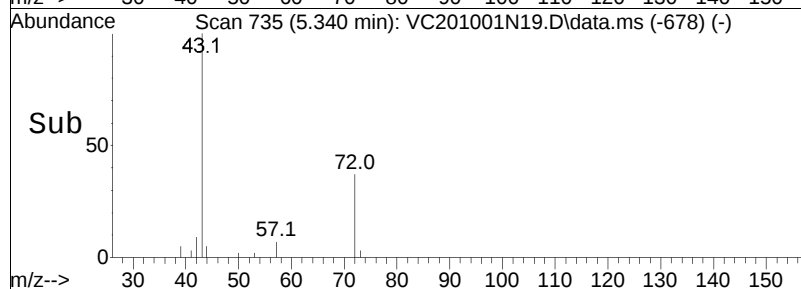
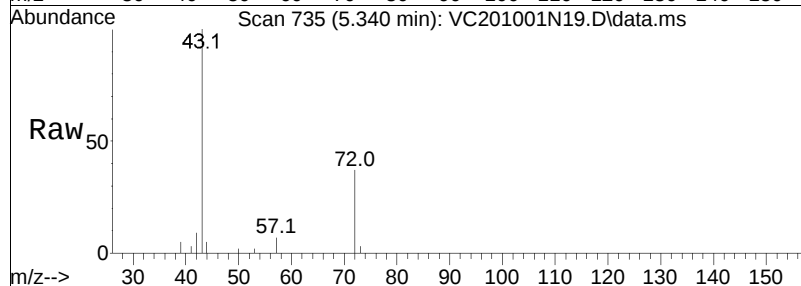
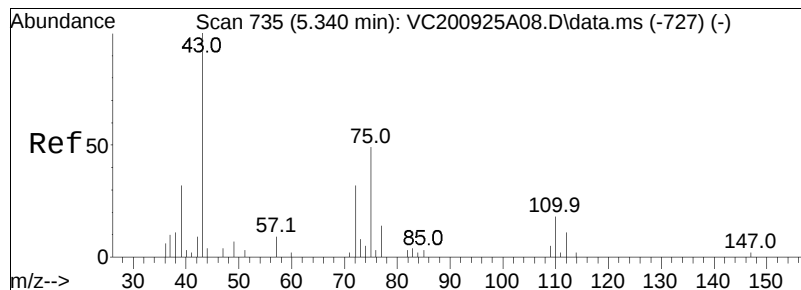




#17
 Acetone
 Concen: 129.99 ug/L
 RT: 3.563 min Scan# 396
 Delta R.T. -0.005 min
 Lab File: VC201001N19.D
 Acq: 2 Oct 2020 1:46 am

Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.9	25.4	38.2





#39

2-Butanone

Concen: 32.44 ug/L

RT: 5.340 min Scan# 735

Delta R.T. 0.000 min

Lab File: VC201001N19.D

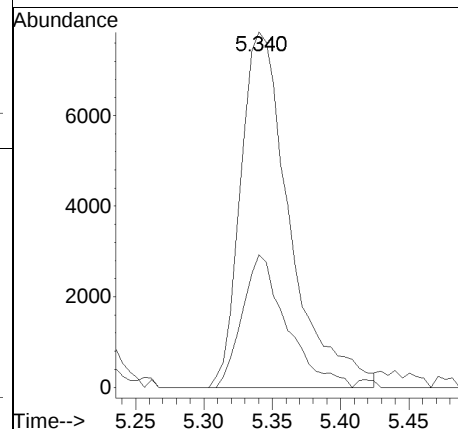
Acq: 2 Oct 2020 1:46 am

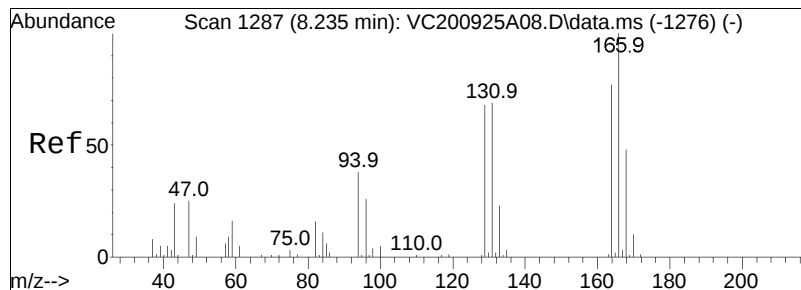
Tgt Ion: 43 Resp: 19672

Ion Ratio Lower Upper

43 100

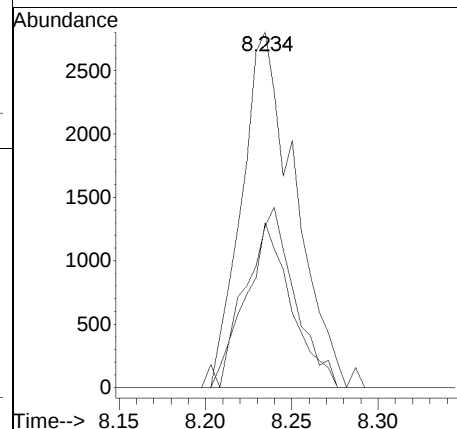
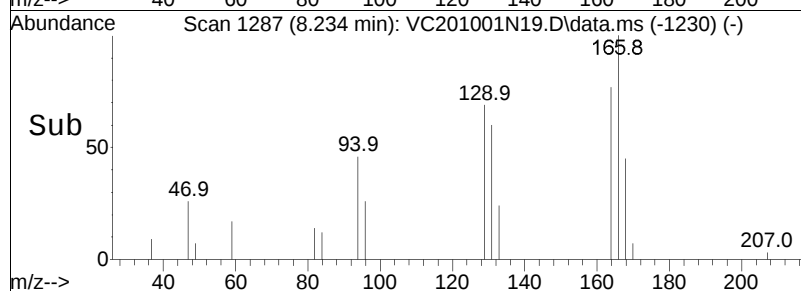
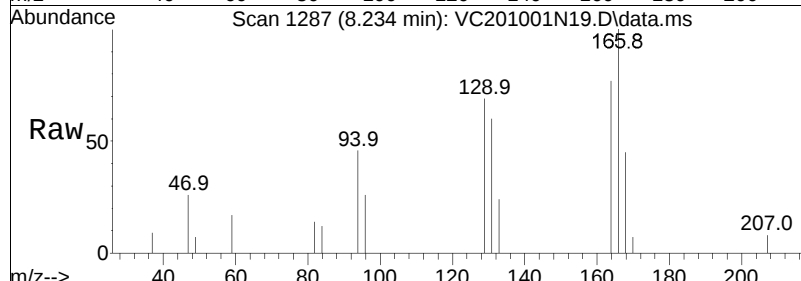
72 33.7 33.3 49.9





#63
Tetrachloroethene
Concen: 2.69 ug/L
RT: 8.234 min Scan# 1287
Delta R.T. -0.001 min
Lab File: VC201001N19.D
Acq: 2 Oct 2020 1:46 am

Tgt Ion	Ratio	Lower	Upper
166	100		
168	46.2	26.4	66.4
94	40.3	21.5	61.5



Manual Integration Report

Data Path : I:\VOLATILES\Charlie\2020\QMethod : C_200925A_8260.m
Data File : VC201001N19.D Operator : CHARLIE:MV
Date Inj'd : 10/2/2020 1:46 am Instrument : Charlie
Sample : 12040828-02,31,4.60,5,,y Quant Date : 10/2/2020 4:32 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N20.D
 Acq On : 2 Oct 2020 2:13 am
 Operator : CHARLIE:MV
 Sample : 12040828-03,31,5.20,5,,y
 Misc : WG1417205,ICAL17178
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 02 05:05:51 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\201001N\VC201001N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.033	96	130702	20.000	ug/L	0.00
Standard Area 1 = 153806			Recovery =	84.98%		
59) Chlorobenzene-d5	9.566	117	104516	20.000	ug/L	0.00
Standard Area 1 = 132392			Recovery =	78.94%		
79) 1,4-Dichlorobenzene-d4	12.251	152	54645	20.000	ug/L	0.00
Standard Area 1 = 78752			Recovery =	69.39%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.225	113	33311	19.094	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	95.47%		
43) 1,2-Dichloroethane-d4	5.755	65	26806	17.831	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	89.16%		
60) Toluene-d8	7.721	98	130684	21.063	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	105.32%		
83) 4-Bromofluorobenzene	11.050	95	39927	21.501	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	107.51%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.843	50	116	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.216	94	578	0.238	ug/L	87
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
15) Methylene chloride	3.532	84	460	0.238	ug/L	# 75
17) Acetone	3.563	43	46306	149.399	ug/L	95
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N20.D
 Acq On : 2 Oct 2020 2:13 am
 Operator : CHARLIE:MV
 Sample : 12040828-03,31,5.20,5,,y
 Misc : WG1417205,ICAL17178
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 02 05:05:51 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\201001N\VC201001N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	5.335	43	131526	223.669	ug/L	88
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	5.624	78	164		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.784	92	53		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	8.235	166	10916	5.094	ug/L	97
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	0.000		0		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	11.270	83	147	Below Cal	#	25
88) 4-Ethyltoluene	0.000		0		N.D.	
89) 2-Chlorotoluene	0.000		0		N.D.	
90) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D. d	
93) 4-Chlorotoluene	0.000		0		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N20.D
 Acq On : 2 Oct 2020 2:13 am
 Operator : CHARLIE:MV
 Sample : 12040828-03,31,5.20,5,,y
 Misc : WG1417205,ICAL17178
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 02 05:05:51 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\201001N\VC201001N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	0.000		0		N.D.	
98)	sec-Butylbenzene	0.000		0		N.D.	
99)	p-Isopropyltoluene	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
105)	1,2,4,5-Tetramethylben...	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
110)	Naphthalene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

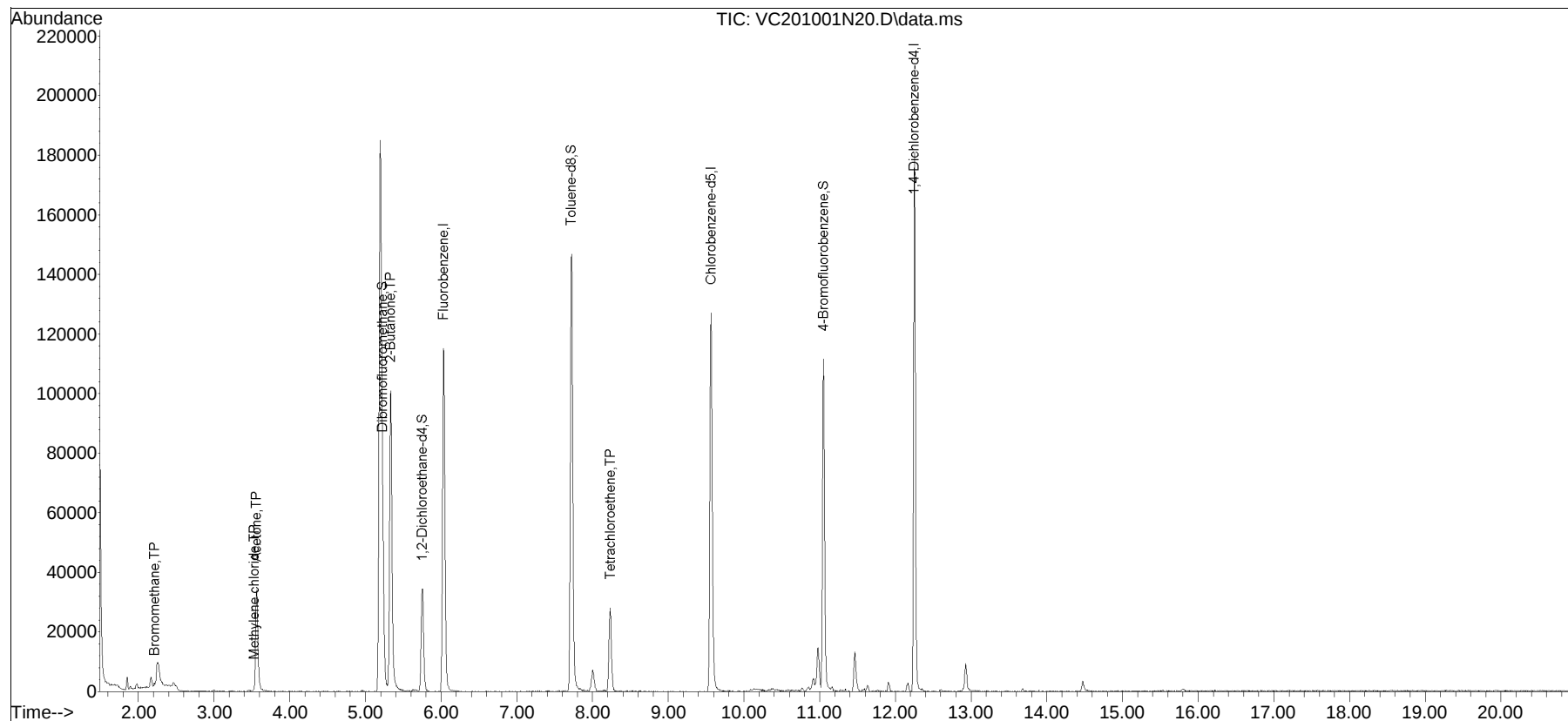
(#) = qualifier out of range (m) = manual integration (+) = signals summed

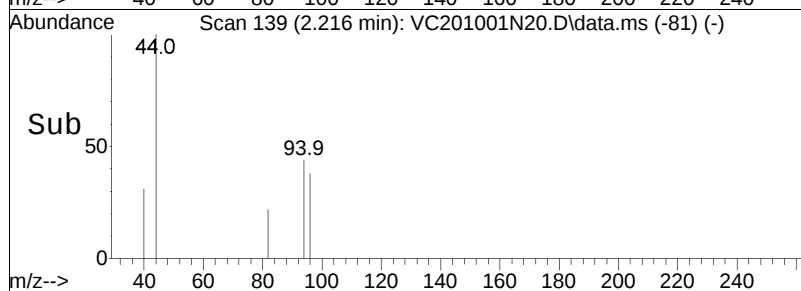
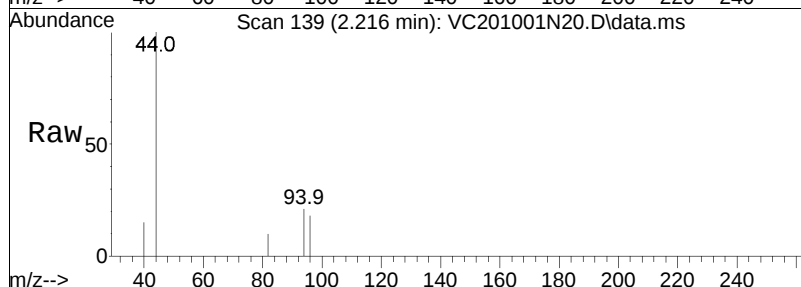
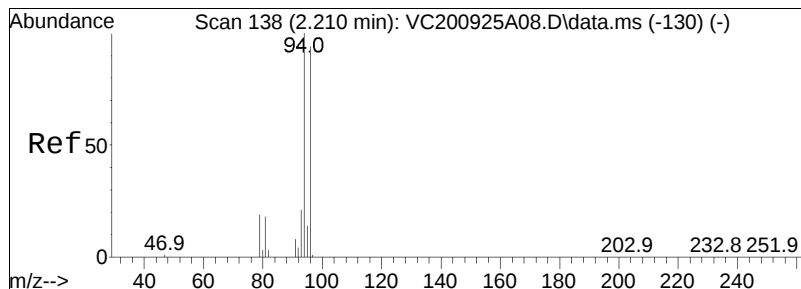
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N20.D
 Acq On : 2 Oct 2020 2:13 am
 Operator : CHARLIE:MV
 Sample : 12040828-03,31,5.20,5,,y
 Misc : WG1417205,ICAL17178
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 02 05:05:51 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

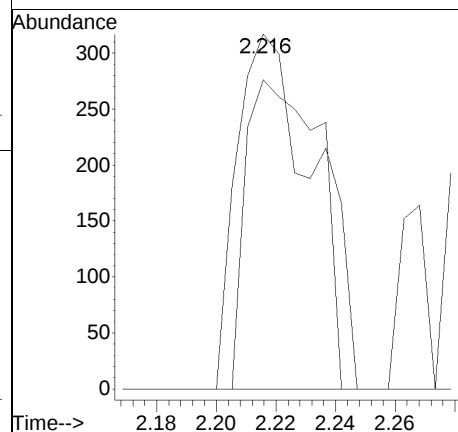
Sub List : 8260-NYTCL - Megamix plus Diox201001N\VC201001N01.D•

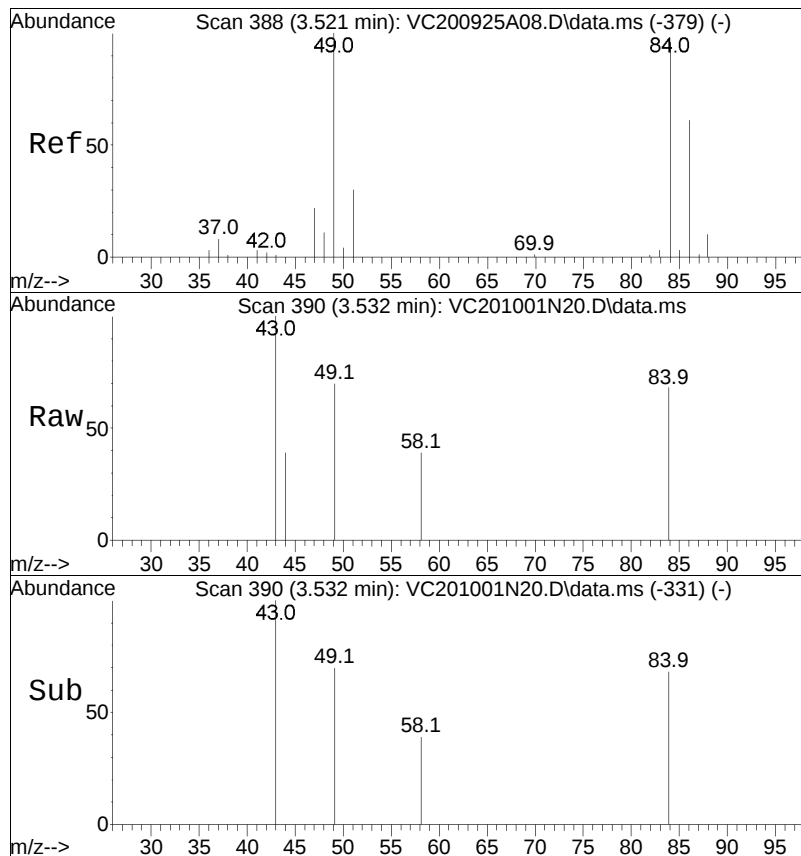




#5
 Bromomethane
 Concen: 0.24 ug/L
 RT: 2.216 min Scan# 139
 Delta R.T. 0.006 min
 Lab File: VC201001N20.D
 Acq: 2 Oct 2020 2:13 am

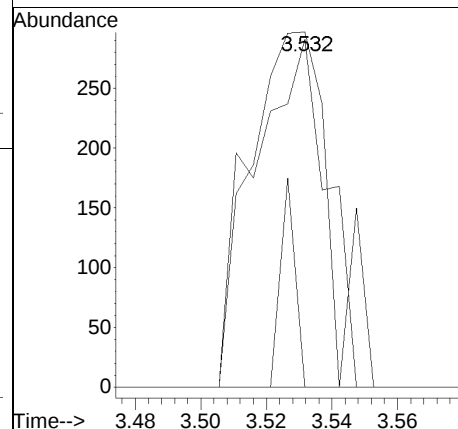
Tgt Ion: 94 Resp: 578
 Ion Ratio Lower Upper
 94 100
 96 81.1 73.8 113.8

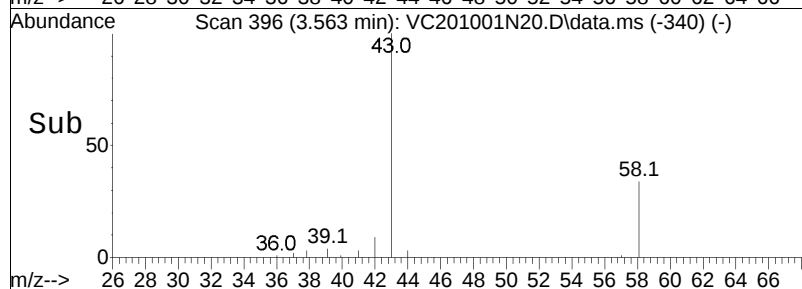
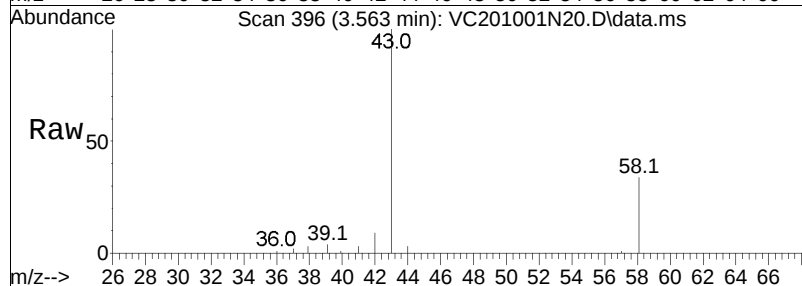
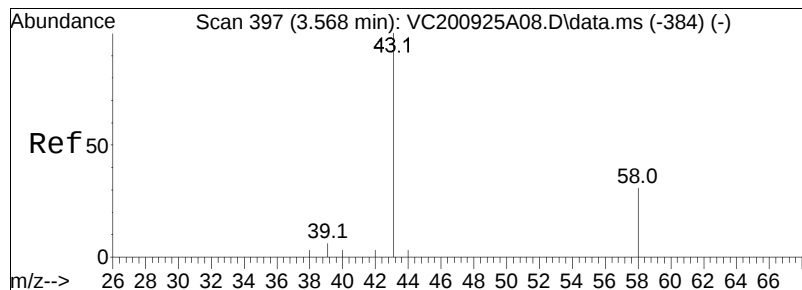




#15
 Methylene chloride
 Concen: 0.24 ug/L
 RT: 3.532 min Scan# 390
 Delta R.T. 0.011 min
 Lab File: VC201001N20.D
 Acq: 2 Oct 2020 2:13 am

Tgt Ion:	84	Resp:	460
Ion Ratio	Lower	Upper	
84	100		
86	12.0	41.9	86.9#
49	108.5	70.3	146.1





#17

Acetone

Concen: 149.40 ug/L

RT: 3.563 min Scan# 396

Delta R.T. -0.005 min

Lab File: VC201001N20.D

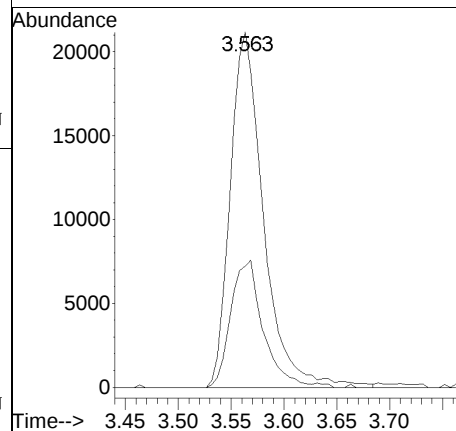
Acq: 2 Oct 2020 2:13 am

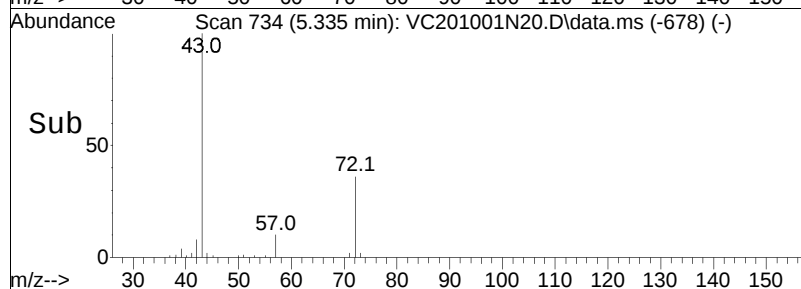
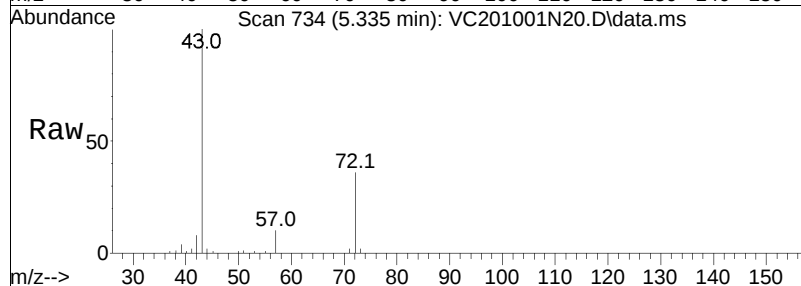
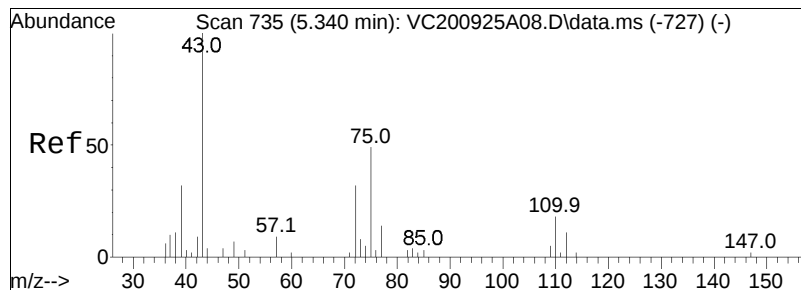
Tgt Ion: 43 Resp: 46306

Ion Ratio Lower Upper

43 100

58 34.6 25.4 38.2





#39

2-Butanone

Concen: 223.67 ug/L

RT: 5.335 min Scan# 734

Delta R.T. -0.005 min

Lab File: VC201001N20.D

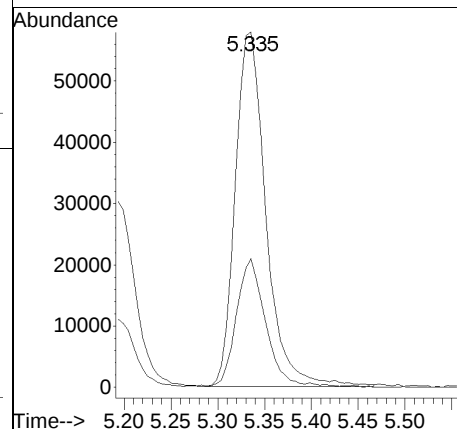
Acq: 2 Oct 2020 2:13 am

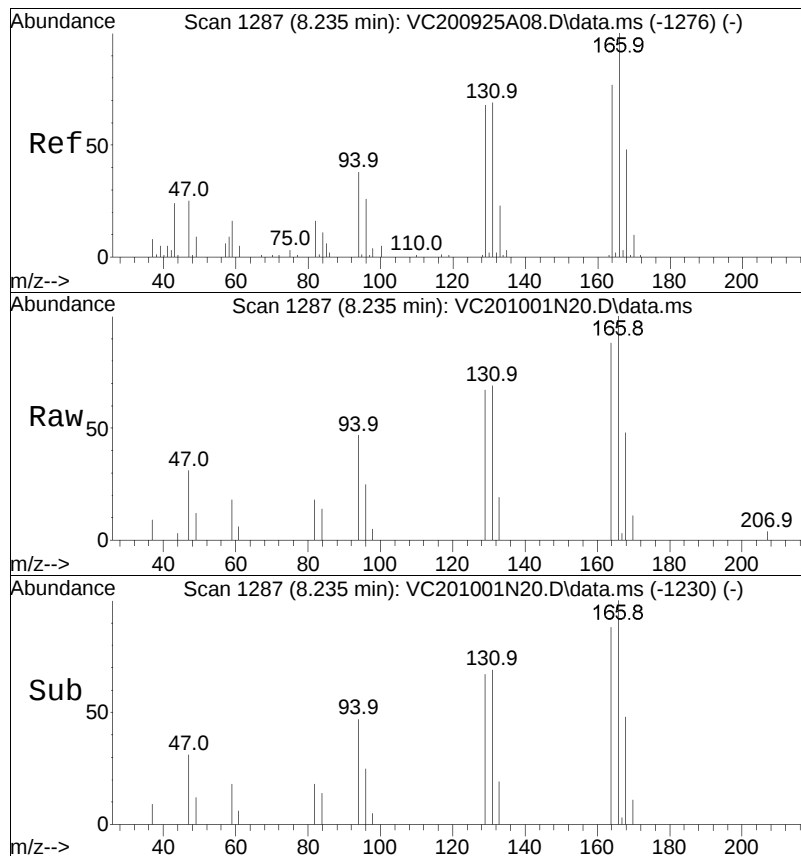
Tgt Ion: 43 Resp: 131526

Ion Ratio Lower Upper

43 100

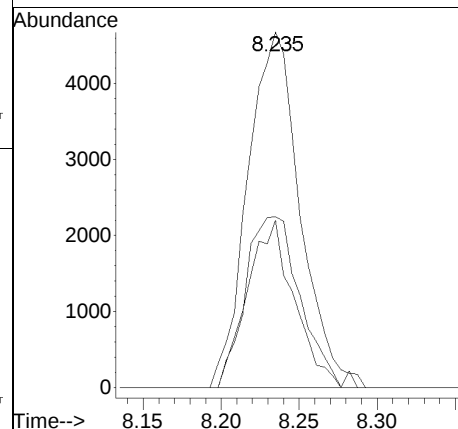
72 34.1 33.3 49.9





#63
 Tetrachloroethene
 Concen: 5.09 ug/L
 RT: 8.235 min Scan# 1287
 Delta R.T. -0.000 min
 Lab File: VC201001N20.D
 Acq: 2 Oct 2020 2:13 am

Tgt	Ion	Ratio	Resp	Lower	Upper
166	100		10916		
168	50.3	26.4	66.4		
94	41.9	21.5	61.5		



Manual Integration Report

Data Path : I:\VOLATILES\Charlie\2020\QMethod : C_200925A_8260.m
Data File : VC201001N20.D Operator : CHARLIE:MV
Date Inj'd : 10/2/2020 2:13 am Instrument : Charlie
Sample : 12040828-03,31,5.20,5,,y Quant Date : 10/2/2020 4:32 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N21.D
 Acq On : 2 Oct 2020 2:40 am
 Operator : CHARLIE:MV
 Sample : 12040828-04,31,4.76,5,,y
 Misc : WG1417205,ICAL17178
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 02 05:06:12 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\201001N\VC201001N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.038	96	134250	20.000	ug/L	0.00
Standard Area 1 = 153806			Recovery =	87.29%		
59) Chlorobenzene-d5	9.566	117	109715	20.000	ug/L	0.00
Standard Area 1 = 132392			Recovery =	82.87%		
79) 1,4-Dichlorobenzene-d4	12.256	152	59065	20.000	ug/L	0.00
Standard Area 1 = 78752			Recovery =	75.00%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.225	113	33698	18.806	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	94.03%		
43) 1,2-Dichloroethane-d4	5.755	65	27351	17.713	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	88.56%		
60) Toluene-d8	7.726	98	134539	20.657	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	103.29%		
83) 4-Bromofluorobenzene	11.050	95	41587	20.719	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	103.60%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.828	50	47	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.226	94	536	0.215	ug/L	95
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.997	76	387	N.D.		
15) Methylene chloride	3.537	84	270	0.136	ug/L	62
17) Acetone	3.563	43	16855	50.629	ug/L	97
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N21.D
 Acq On : 2 Oct 2020 2:40 am
 Operator : CHARLIE:MV
 Sample : 12040828-04,31,4.76,5,,y
 Misc : WG1417205,ICAL17178
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 02 05:06:12 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\201001N\VC201001N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0	N.D.		
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	5.351	43	10120	16.755	ug/L #	83
40) 1,1-Dichloropropene	0.000		0	N.D.		
41) Benzene	0.000		0	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.		
48) Trichloroethene	0.000		0	N.D.		
50) Dibromomethane	0.000		0	N.D.		
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
57) 1,4-Dioxane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	0.000		0	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	8.245	166	1533	0.681	ug/L #	61
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
70) 1,3-Dichloropropane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	0.000		0	N.D.		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	0.000		0	N.D.		
75) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	0.000		0	N.D.		
84) Bromobenzene	0.000		0	N.D.		
85) n-Propylbenzene	11.050	91	52	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
88) 4-Ethyltoluene	0.000		0	N.D.		
89) 2-Chlorotoluene	0.000		0	N.D.		
90) 1,3,5-Trimethylbenzene	0.000		0	N.D.		
91) 1,2,3-Trichloropropane	0.000		0	N.D.		
92) trans-1,4-Dichloro-2-b...	0.000		0	N.D.		
93) 4-Chlorotoluene	0.000		0	N.D.		
94) tert-Butylbenzene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N21.D
 Acq On : 2 Oct 2020 2:40 am
 Operator : CHARLIE:MV
 Sample : 12040828-04,31,4.76,5,,y
 Misc : WG1417205,ICAL17178
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 02 05:06:12 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\201001N\VC201001N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	0.000		0		N.D.	
98)	sec-Butylbenzene	0.000		0		N.D.	
99)	p-Isopropyltoluene	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
105)	1,2,4,5-Tetramethylben...	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
110)	Naphthalene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

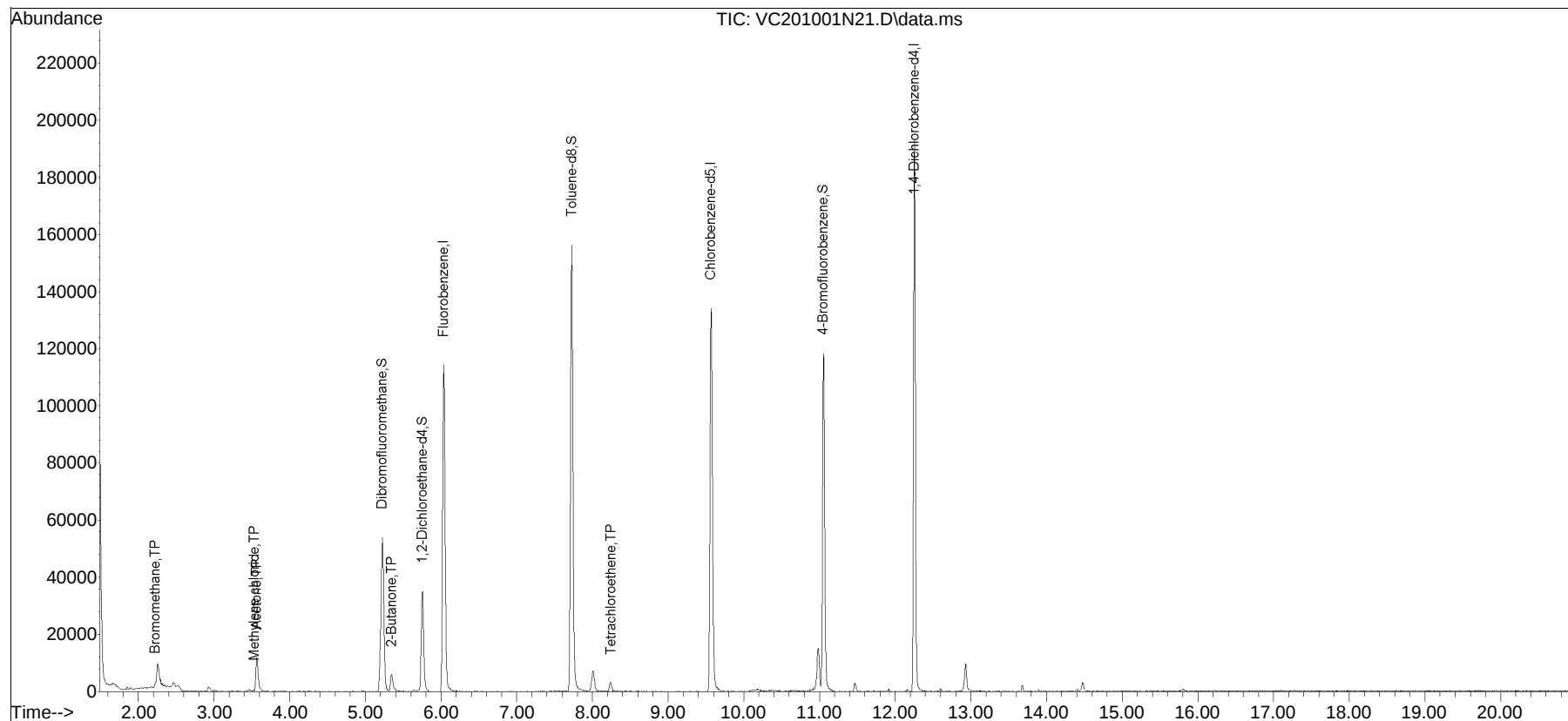
(#) = qualifier out of range (m) = manual integration (+) = signals summed

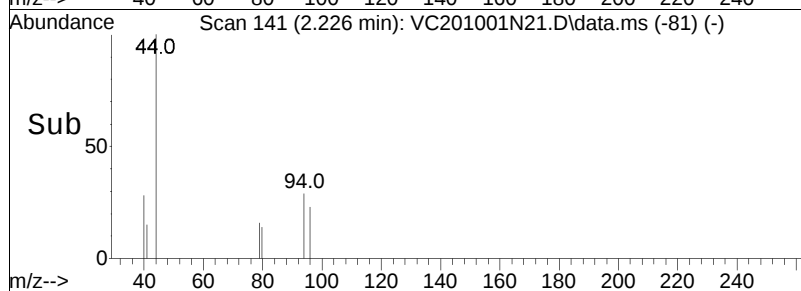
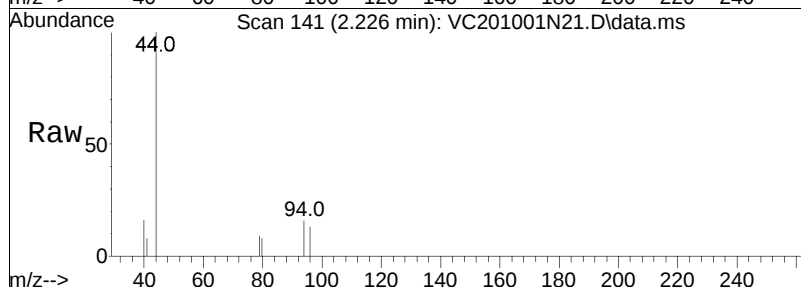
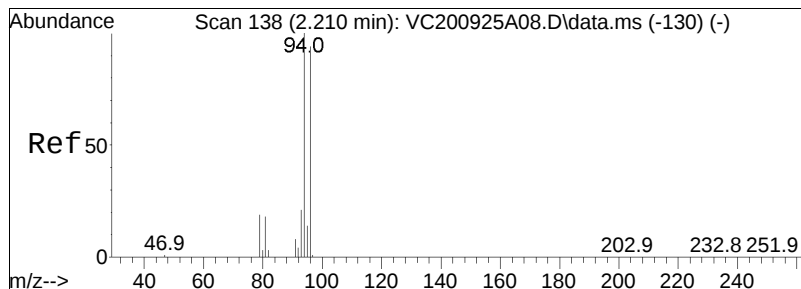
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N21.D
 Acq On : 2 Oct 2020 2:40 am
 Operator : CHARLIE:MV
 Sample : 12040828-04,31,4.76,5,,y
 Misc : WG1417205,ICAL17178
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 02 05:06:12 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

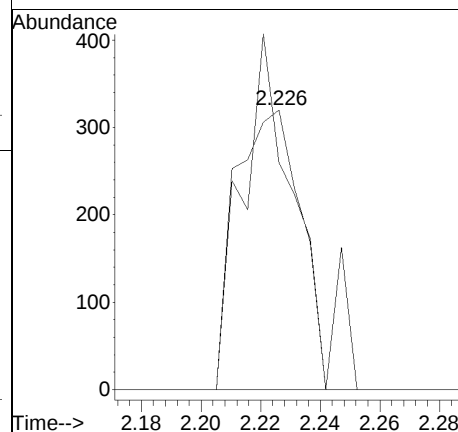
Sub List : 8260-NYTCL - Megamix plus Diox201001N\VC201001N01.D•

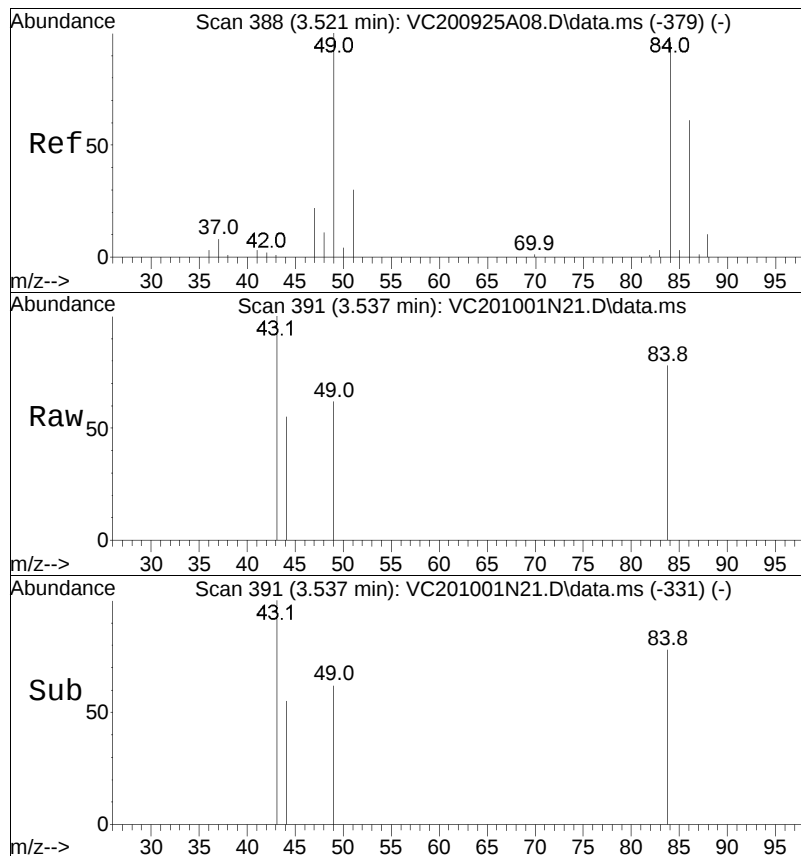




#5
 Bromomethane
 Concen: 0.21 ug/L
 RT: 2.226 min Scan# 141
 Delta R.T. 0.016 min
 Lab File: VC201001N21.D
 Acq: 2 Oct 2020 2:40 am

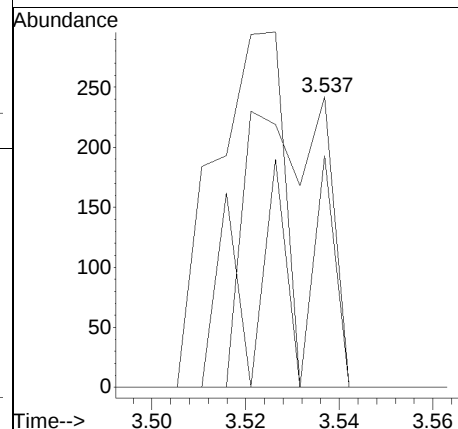
Tgt Ion: 94 Resp: 536
 Ion Ratio Lower Upper
 94 100
 96 88.6 73.8 113.8

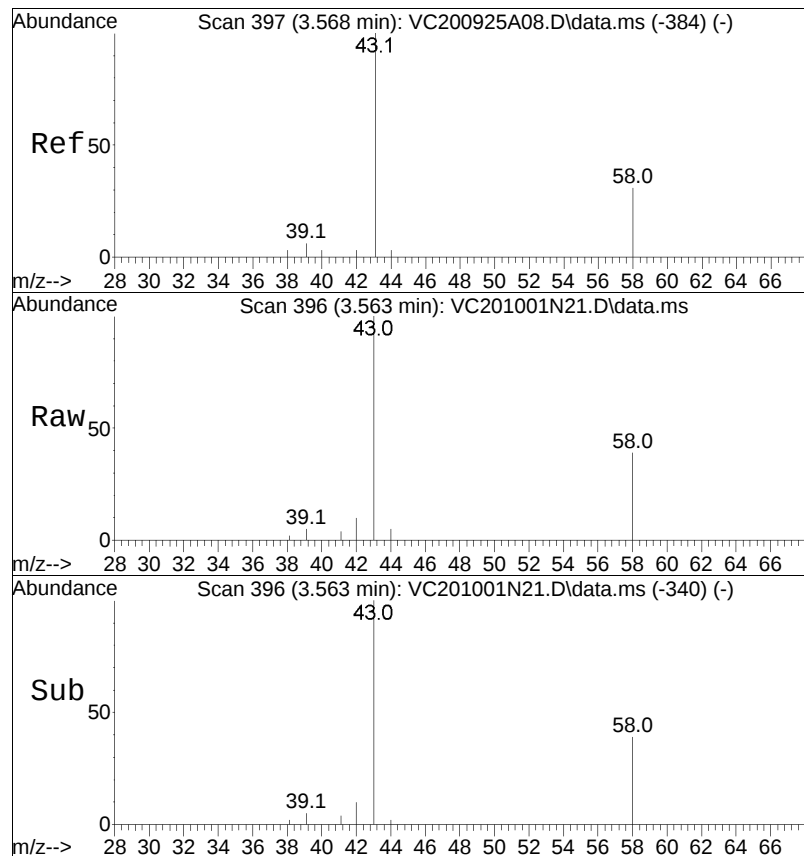




#15
Methylene chloride
Concen: 0.14 ug/L
RT: 3.537 min Scan# 391
Delta R.T. 0.016 min
Lab File: VC201001N21.D
Acq: 2 Oct 2020 2:40 am

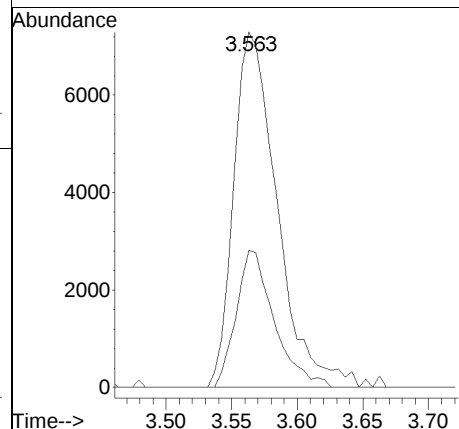
Tgt Ion:	84	Resp:	270
Ion Ratio	Lower	Upper	
84	100		
86	18.9	41.9	86.9#
49	135.2	70.3	146.1

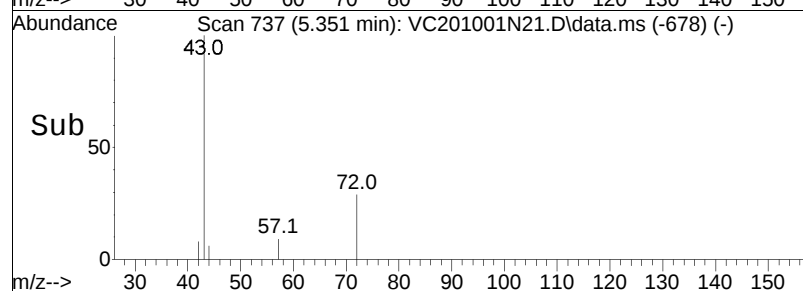
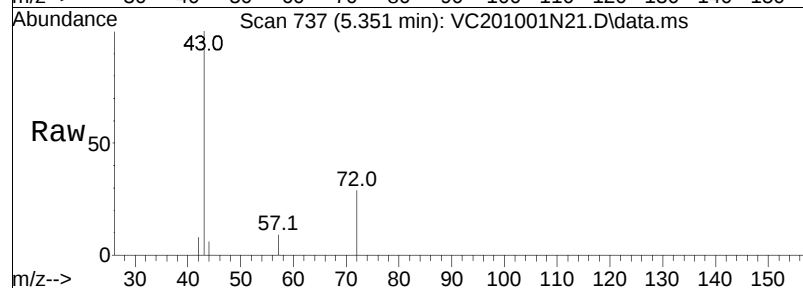
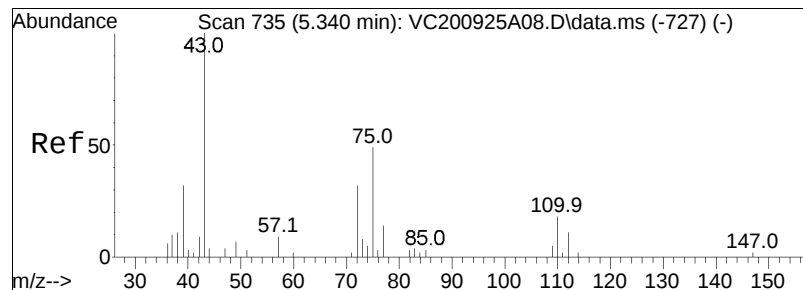




#17
 Acetone
 Concen: 50.63 ug/L
 RT: 3.563 min Scan# 396
 Delta R.T. -0.005 min
 Lab File: VC201001N21.D
 Acq: 2 Oct 2020 2:40 am

Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.7	25.4	38.2





#39

2-Butanone

Concen: 16.75 ug/L

RT: 5.351 min Scan# 737

Delta R.T. 0.011 min

Lab File: VC201001N21.D

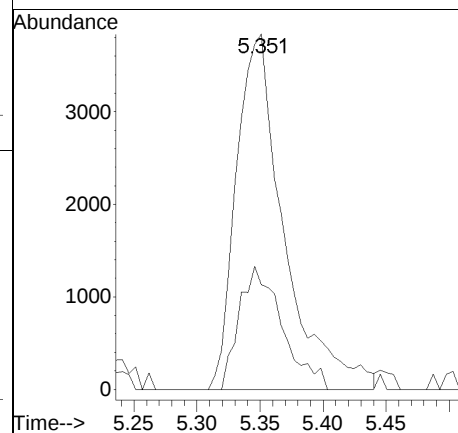
Acq: 2 Oct 2020 2:40 am

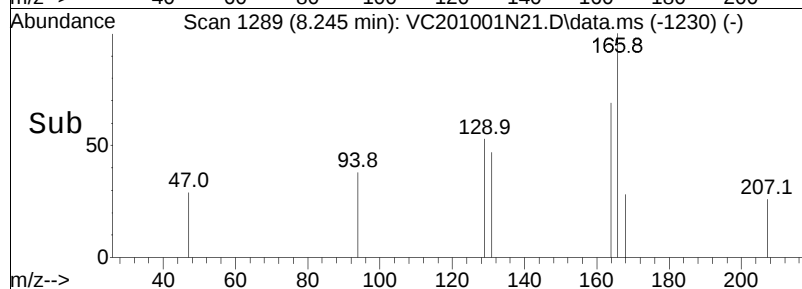
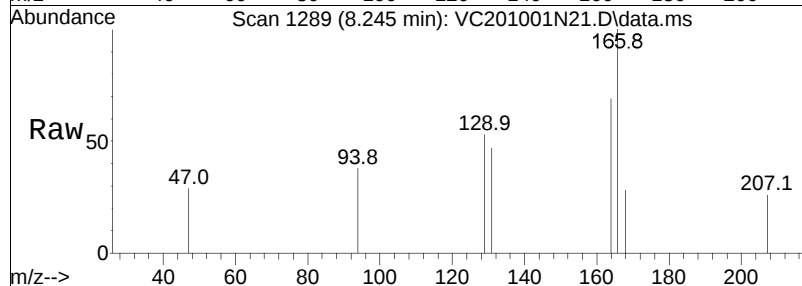
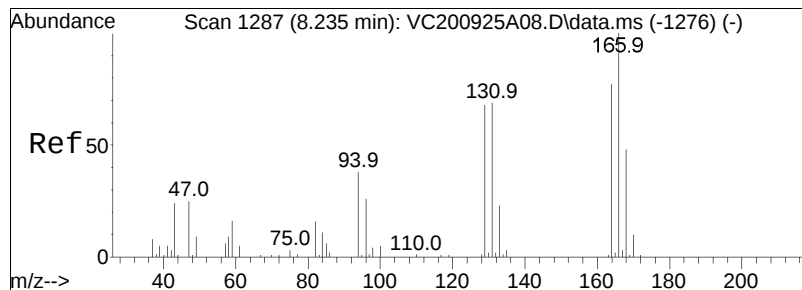
Tgt Ion: 43 Resp: 10120

Ion Ratio Lower Upper

43 100

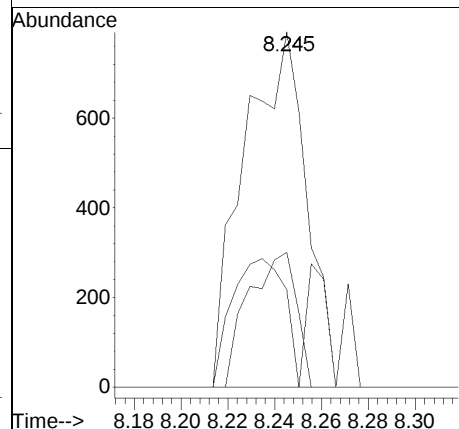
72 31.2 33.3 49.9#





#63
 Tetrachloroethene
 Concen: 0.68 ug/L
 RT: 8.245 min Scan# 1289
 Delta R.T. 0.010 min
 Lab File: VC201001N21.D
 Acq: 2 Oct 2020 2:40 am

Tgt Ion	Ratio	Lower	Upper
166	100		
168	10.6	26.4	66.4#
94	27.9	21.5	61.5



Manual Integration Report

Data Path : I:\VOLATILES\Charlie\2020\QMethod : C_200925A_8260.m
Data File : VC201001N21.D Operator : CHARLIE:MV
Date Inj'd : 10/2/2020 2:40 am Instrument : Charlie
Sample : 12040828-04,31,4.76,5,,y Quant Date : 10/2/2020 4:32 am

There are no manual integrations or false positives in this file.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Instrument ID : CHARLIE
 Calibration dates : 09/25/20 08:17 09/25/20 11:54

Lab Number : L2040828
 Project Number : 48122
 Ical Ref : ICAL17178

Calibration Files

L0 =VC200925A03.D L1 =VC200925A04.D L1.5=VC200925A05.D L2 =VC200925A06.D L3 =VC200925A07.D
 L4 =VC200925A08.D L6 =VC200925A09.D L7 =VC200925A10.D L8 =VC200925A11.D

Compound	L0	L1	L1.5	L2	L3	L4	L6	L7	L8	Avg	%RSD
1) I Fluorobenzene	-----ISTD-----										
2) TP Dichlorodifluo	0.322	0.252	0.338	0.277	0.263	0.270	0.272	0.267	0.283	10.76	
3) TP Chloromethane		0.223	0.251	0.192	0.174	0.173	0.179	0.181	0.196	15.15	
4) TC Vinyl chloride	0.526	0.442	0.579	0.469	0.443	0.406	0.387	0.354	0.451	16.35	
5) TP Bromomethane		0.457	0.484	0.348	0.314	0.309	0.346	0.345	0.372	18.70	
6) TP Chloroethane	0.513	0.433	0.535	0.462	0.450	0.440			0.472	8.90	
7) TP Trichlorofluor	1.199	0.963	1.334	1.126	1.092	1.057	1.084	1.030	1.111	10.21	
8) TP Ethyl ether	0.147	0.122	0.145	0.133	0.122	0.128	0.139	0.145	0.135	7.53	
10) TC 1,1-Dichloroet	0.217	0.196	0.260	0.219	0.209	0.215	0.234	0.239	0.224	8.93	
11) TP Carbon disulfide	0.704	0.558	0.651	0.539	0.510	0.537	0.582	0.601	0.585	11.08	
12) TP Freon-113	0.224	0.186	0.268	0.228	0.218	0.228	0.238	0.242	0.229	10.12	
14) TP Acrolein		0.018	0.024	0.027	0.026	0.028	0.030	0.031	0.026#	16.59	
15) TP Methylene chlo	0.421	0.292	0.318	0.267	0.245	0.254	0.275	0.289	0.295	18.96	
17) TP Acetone		0.139	0.082	0.055	0.047	0.046	0.047	0.048	*L	0.9983	
18) TP trans-1,2-Dich	0.256	0.224	0.286	0.254	0.242	0.259	0.283	0.297	0.262	9.27	
19) TP Methyl acetate	0.128	0.119	0.138	0.125	0.117	0.124	0.134	0.136	0.128	6.17	
20) TP Methyl tert butyl ether	0.759	0.650	0.775	0.706	0.648	0.698	0.758	0.805	0.725	8.03	
21) TP tert-Butyl alc	0.033	0.029	0.030	0.026	0.024	0.025	0.028	0.028	0.028#	10.42	
22) TP Diisopropyl ether	0.754	0.642	0.751	0.681	0.630	0.685	0.735	0.770	0.706	7.60	
23) TP 1,1-Dichloroet	0.459	0.380	0.450	0.399	0.372	0.399	0.420	0.437	0.415	7.73	
24) TP Halothane	0.229	0.183	0.235	0.209	0.203	0.211	0.224	0.238	0.217	8.62	
25) TP Acrylonitrile			0.047	0.057	0.054	0.059	0.062	0.064	0.057	10.55	
26) TP Ethyl tert-but	0.771	0.615	0.751	0.696	0.643	0.723	0.823	0.891	0.739	12.34	
27) TP Vinyl acetate	0.438	0.409	0.523	0.500	0.475	0.549	0.630	0.647	0.522	16.34	
28) TP cis-1,2-Dichlo	0.311	0.262	0.329	0.295	0.277	0.303	0.325	0.343	0.306	8.94	
29) TP 2,2-Dichloropr	0.372	0.319	0.398	0.347	0.329	0.356	0.382	0.403	0.363	8.55	
30) TP Bromochloromet	0.153	0.129	0.176	0.156	0.149	0.162	0.175	0.192	0.161	12.01	
31) TP Cyclohexane	0.370	0.270	0.385	0.338	0.327	0.360	0.381	0.400	0.354	11.72	
32) TC Chloroform	0.569	0.449	0.524	0.461	0.430	0.460	0.483	0.510	0.486	9.42	
33) TP Ethyl acetate	0.131	0.183	0.223	0.203	0.188	0.203	0.208	0.208	0.193	14.60	
34) TP Carbon tetrach	0.399	0.314	0.425	0.370	0.371	0.399	0.410	0.414	0.388	9.15	
35) TP Tetrahydrofuran		0.068	0.067	0.067	0.064	0.058	0.059	0.058	0.055	0.062	8.05
36) S Dibromofluoromethane	0.261	0.263	0.262	0.270	0.268	0.274	0.272	0.267	0.265	0.267	1.74
37) TP 1,1,1-Trichloroethane	0.553	0.410	0.339	0.448	0.395	0.376	0.390	0.394	0.396	0.411	14.65
39) TP 2-Butanone		0.109	0.092	0.107	0.096	0.076	0.080	0.080	0.080	0.090#	14.26
40) TP 1,1-Dichloropropene	0.435	0.325	0.268	0.361	0.324	0.315	0.334	0.340	0.344	0.339	13.12



Initial Calibration Summary

Form 6

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Instrument ID : CHARLIE
 Calibration dates : 09/25/20 08:17 09/25/20 11:54

Lab Number : L2040828
 Project Number : 48122
 Ical Ref : ICAL17178

Calibration Files

L0 =VC200925A03.D L1 =VC200925A04.D L1.5=VC200925A05.D L2 =VC200925A06.D L3 =VC200925A07.D
 L4 =VC200925A08.D L6 =VC200925A09.D L7 =VC200925A10.D L8 =VC200925A11.D

Compound	L0	L1	L1.5	L2	L3	L4	L6	L7	L8	Avg	%RSD
41) TP Benzene	1.551	1.158	0.999	1.183	1.029	0.991	1.101	1.179	1.270	1.162	14.92
42) TP Tertiary-Amyl Methyl Ether		0.765	0.682	0.810	0.754	0.713	0.806	0.897	0.989	0.802	12.47
43) S 1,2-Dichloroethane-d4	0.213	0.216	0.216	0.213	0.211	0.220	0.231	0.261	0.289	0.230	11.86
44) TP 1,2-Dichloroet		0.343	0.295	0.349	0.316	0.296	0.314	0.339	0.364	0.327	7.81
47) TP Methyl cyclohe		0.435	0.349	0.494	0.446	0.430	0.488	0.530	0.564	0.467	14.35
48) TP Trichloroethene	0.354	0.294	0.236	0.297	0.262	0.263	0.292	0.325	0.356	0.298	13.85
50) TP Dibromomethane		0.168	0.146	0.175	0.170	0.163	0.179	0.192	0.204	0.175	10.27
51) TC 1,2-Dichloropr		0.240	0.223	0.260	0.242	0.231	0.251	0.259	0.261	0.246	5.74
53) TP 2-Chloroethyl			0.099	0.128	0.137	0.121	0.150	0.158	0.158	0.136	15.89
54) TP Bromodichloromethane	0.583	0.409	0.337	0.404	0.381	0.365	0.393	0.399	0.407	0.409	17.03
57) TP 1,4-Dioxane		0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003#	9.27
58) TP cis-1,3-Dichloropropene	0.554	0.407	0.364	0.445	0.418	0.406	0.453	0.479	0.495	0.447	12.73
59) I Chlorobenzene-d5	-----ISTD-----										
60) S Toluene-d8	1.293	1.289	1.270	1.267	1.235	1.190	1.128	1.035	0.979	1.187	9.75
61) TC Toluene		0.949	0.781	0.962	0.863	0.801	0.859	0.878	0.874	0.871	7.20
62) TP 4-Methyl-2-pen		0.063	0.085	0.107	0.104	0.094	0.100	0.097	0.097	0.093#	14.87
63) TP Tetrachloroethene	0.544	0.394	0.329	0.456	0.398	0.380	0.391	0.387	0.411	0.410	14.60
65) TP trans-1,3-Dich		0.415	0.395	0.473	0.460	0.424	0.439	0.437	0.457	0.437	5.91
67) TP Ethyl methacry		0.368	0.328	0.410	0.403	0.374	0.409	0.439	0.424	0.395	9.09
68) TP 1,1,2-Trichlor		0.274	0.229	0.276	0.259	0.232	0.249	0.266	0.259	0.255	6.95
69) TP Chlorodibromomethane	0.564	0.424	0.323	0.440	0.407	0.372	0.390	0.378	0.379	0.409	16.44
70) TP 1,3-Dichloropr		0.516	0.436	0.529	0.500	0.445	0.454	0.436	0.424	0.468	8.76
71) TP 1,2-Dibromoethane		0.293	0.263	0.332	0.316	0.283	0.299	0.287	0.284	0.295	7.15
72) TP 2-Hexanone		0.163	0.155	0.175	0.180	0.158	0.166	0.162	0.152	0.164	5.89
73) TP Chlorobenzene	1.718	1.199	1.016	1.193	1.089	1.015	1.091	1.192	1.116	1.181	18.09
74) TC Ethylbenzene		1.780	1.492	1.789	1.674	1.627	1.871	1.955	1.752	1.742	8.29
75) TP 1,1,1,2-Tetrachloroethane	0.576	0.387	0.359	0.435	0.403	0.386	0.430	0.434	0.427	0.426	14.50
76) TP p/m Xylene	0.993	0.730	0.588	0.738	0.728	0.724	0.876	0.848	0.793	0.780	14.80
77) TP o Xylene	0.919	0.681	0.583	0.722	0.696	0.701	0.896	0.843	0.778	0.758	14.58
78) TP Styrene	1.551	1.110	0.953	1.174	1.246	1.339	1.772	1.558	1.421	1.347	19.00
79) I 1,4-Dichlorobenzene-d4	-----ISTD-----										
80) TP Bromoform		0.444	0.398	0.487	0.460	0.454	0.535	0.530	0.534	0.480	10.45
82) TP Isopropylbenzene		3.295	2.531	3.175	2.755	2.530	2.827	2.861	2.857	2.854	9.52
83) S 4-Bromofluorobenzene	0.747	0.729	0.708	0.698	0.654	0.623	0.574	0.664	0.720	0.680	8.23
84) TP Bromobenzene		0.955	0.779	0.879	0.765	0.664	0.695	0.775	0.801	0.789	11.81
85) TP n-Propylbenzene		3.735	2.996	3.742	3.189	3.025	3.269	3.211	3.208	3.297	8.75



Initial Calibration Summary

Form 6

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Instrument ID : CHARLIE
 Calibration dates : 09/25/20 08:17 09/25/20 11:54

Lab Number : L2040828
 Project Number : 48122
 Ical Ref : ICAL17178

Calibration Files

L0 =VC200925A03.D L1 =VC200925A04.D L1.5=VC200925A05.D L2 =VC200925A06.D L3 =VC200925A07.D
 L4 =VC200925A08.D L6 =VC200925A09.D L7 =VC200925A10.D L8 =VC200925A11.D

Compound	L0	L1	L1.5	L2	L3	L4	L6	L7	L8	Avg	%RSD
86) TP 1,4-Dichlorobu		0.742	0.608	0.735	0.643	0.585	0.601	0.582	0.582	0.635	10.61
87) TP 1,1,2,2-Tetrachloroethane	1.095	0.750	0.652	0.758	0.657	0.575	0.603	0.629	0.626	*L	0.9991
88) TP 4-Ethyltoluene		3.226	2.591	3.186	2.780	2.639	2.793	2.770	2.770	2.844	8.27
89) TP 2-Chlorotoluene		2.169	1.803	2.079	1.888	1.794	1.899	1.851	1.841	1.916	7.10
90) TP 1,3,5-Trimethy		2.710	2.248	2.755	2.455	2.443	2.527	2.469	2.512	2.515	6.34
91) TP 1,2,3-Trichlor		0.515	0.468	0.566	0.501	0.479	0.472	0.465	0.476	0.493	6.93
92) TP trans-1,4-Dich		0.121	0.102	0.147	0.143	0.133	0.133	0.130	0.129	0.130	10.70
93) TP 4-Chlorotoluene		2.083	1.767	2.188	1.928	1.886	1.972	1.941	1.935	1.962	6.45
94) TP tert-Butylbenzene		2.417	1.931	2.373	2.125	2.036	2.151	2.134	2.142	2.164	7.44
97) TP 1,2,4-Trimethy		2.588	2.194	2.640	2.425	2.403	2.552	2.459	2.443	2.463	5.59
98) TP sec-Butylbenzene		3.490	2.753	3.558	3.276	3.204	3.314	3.162	3.125	3.235	7.64
99) TP p-Isopropyltol		3.093	2.466	3.093	2.832	2.839	2.961	2.853	2.827	2.870	6.92
100) TP 1,3-Dichlorobe		1.752	1.408	1.671	1.572	1.545	1.624	1.594	1.613	1.597	6.24
101) TP 1,4-Dichlorobe		1.912	1.578	1.807	1.614	1.532	1.565	1.555	1.583	1.643	8.42
102) TP p-Diethylbenzene		1.761	1.476	1.829	1.678	1.635	1.702	1.674	1.687	1.680	6.08
103) TP n-Butylbenzene		2.618	2.038	2.572	2.399	2.430	2.410	2.287	2.245	2.375	7.81
104) TP 1,2-Dichlorobe		1.605	1.387	1.583	1.492	1.441	1.482	1.472	1.494	1.495	4.73
105) TP 1,2,4,5-Tetram		2.758	2.255	2.764	2.540	2.511	2.674	2.723	2.767	2.624	6.85
106) TP 1,2-Dibromo-3-		0.113	0.114	0.129	0.123	0.111	0.120	0.134	0.137	0.123	7.93
107) TP 1,3,5-Trichlor		1.130	0.917	1.137	1.006	0.958	0.959	1.025	1.053	1.023	7.85
108) TP Hexachlorobuta		0.434	0.367	0.469	0.398	0.363	0.356	0.418	0.456	0.408	10.73
109) TP 1,2,4-Trichlor		1.003	0.846	0.995	0.885	0.801	0.741	0.861	0.937	0.884	10.36
110) TP Naphthalene		2.356	1.957	2.312	2.114	1.924	2.029	2.346	2.381	2.177	8.83
111) TP 1,2,3-Trichlor		0.973	0.764	0.923	0.797	0.744	0.769	0.882	0.929	0.848	10.51



Response Factor Report Charlie

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Compound		L0	L1	L1.5	L2	L3	L4	L6	L7	L8	Avg	%RSD
-----ISTD-----												
1) I	Fluorobenzene											
2) TP	Dichlorodifluo...	0.322	0.252	0.338	0.277	0.263	0.270	0.272	0.267	0.283	10.76	
3) TP	Chloromethane		0.223	0.251	0.192	0.174	0.173	0.179	0.181	0.196	15.15	
4) TC	Vinyl chloride	0.526	0.442	0.579	0.469	0.443	0.406	0.387	0.354	0.451	16.35	
5) TP	Bromomethane		0.457	0.484	0.348	0.314	0.309	0.346	0.345	0.372	18.70	
6) TP	Chloroethane	0.513	0.433	0.535	0.462	0.450	0.440			0.472	8.90	
7) TP	Trichlorofluor...	1.199	0.963	1.334	1.126	1.092	1.057	1.084	1.030	1.111	10.21	
8) TP	Ethyl ether	0.147	0.122	0.145	0.133	0.122	0.128	0.139	0.145	0.135	7.53	
10) TC	1,1-Dichloroet...	0.217	0.196	0.260	0.219	0.209	0.215	0.234	0.239	0.224	8.93	
11) TP	Carbon disulfide	0.704	0.558	0.651	0.539	0.510	0.537	0.582	0.601	0.585	11.08	
12) TP	Freon-113	0.224	0.186	0.268	0.228	0.218	0.228	0.238	0.242	0.229	10.12	
14) TP	Acrolein		0.018	0.024	0.027	0.026	0.028	0.030	0.031	0.026#	16.59	
15) TP	Methylene chlo...	0.421	0.292	0.318	0.267	0.245	0.254	0.275	0.289	0.295	18.96	
17) TP	Acetone		0.139	0.082	0.055	0.047	0.046	0.047	0.048	*L	0.9983	
18) TP	trans-1,2-Dich...	0.256	0.224	0.286	0.254	0.242	0.259	0.283	0.297	0.262	9.27	
19) TP	Methyl acetate	0.128	0.119	0.138	0.125	0.117	0.124	0.134	0.136	0.128	6.17	
20) TP	Methyl tert-bu...	0.759	0.650	0.775	0.706	0.648	0.698	0.758	0.805	0.725	8.03	
21) TP	tert-Butyl alc...	0.033	0.029	0.030	0.026	0.024	0.025	0.028	0.028	0.028#	10.42	
22) TP	Diisopropyl ether	0.754	0.642	0.751	0.681	0.630	0.685	0.735	0.770	0.706	7.60	
23) TP	1,1-Dichloroet...	0.459	0.380	0.450	0.399	0.372	0.399	0.420	0.437	0.415	7.73	
24) TP	Halothane	0.229	0.183	0.235	0.209	0.203	0.211	0.224	0.238	0.217	8.62	
25) TP	Acrylonitrile			0.047	0.057	0.054	0.059	0.062	0.064	0.057	10.55	
26) TP	Ethyl tert-but...	0.771	0.615	0.751	0.696	0.643	0.723	0.823	0.891	0.739	12.34	
27) TP	Vinyl acetate	0.438	0.409	0.523	0.500	0.475	0.549	0.630	0.647	0.522	16.34	
28) TP	cis-1,2-Dichlo...	0.311	0.262	0.329	0.295	0.277	0.303	0.325	0.343	0.306	8.94	
29) TP	2,2-Dichloropr...	0.372	0.319	0.398	0.347	0.329	0.356	0.382	0.403	0.363	8.55	
30) TP	Bromochloromet...	0.153	0.129	0.176	0.156	0.149	0.162	0.175	0.192	0.161	12.01	
31) TP	Cyclohexane	0.370	0.270	0.385	0.338	0.327	0.360	0.381	0.400	0.354	11.72	
32) TC	Chloroform	0.569	0.449	0.524	0.461	0.430	0.460	0.483	0.510	0.486	9.42	
33) TP	Ethyl acetate	0.131	0.183	0.223	0.203	0.188	0.203	0.208	0.208	0.193	14.60	
34) TP	Carbon tetrach...	0.399	0.314	0.425	0.370	0.371	0.399	0.410	0.414	0.388	9.15	

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	Compound	L0	L1	L1.5	L2	L3	L4	L6	L7	L8	Avg	%RSD
35)	TP Tetrahydrofuran	0.068	0.067	0.067	0.064	0.058	0.059	0.058	0.055	0.062	8.05	
36)	S Dibromofluorom...	0.261	0.263	0.262	0.270	0.268	0.274	0.272	0.267	0.265	1.74	
37)	TP 1,1,1-Trichlor...	0.553	0.410	0.339	0.448	0.395	0.376	0.390	0.394	0.396	14.65	
39)	TP 2-Butanone	0.109	0.092	0.107	0.096	0.076	0.080	0.080	0.080	0.090#	14.26	
40)	TP 1,1-Dichloropr...	0.435	0.325	0.268	0.361	0.324	0.315	0.334	0.340	0.344	13.12	
41)	TP Benzene	1.551	1.158	0.999	1.183	1.029	0.991	1.101	1.179	1.270	14.92	
42)	TP tert-Amyl meth...	0.765	0.682	0.810	0.754	0.713	0.806	0.897	0.989	0.802	12.47	
43)	S 1,2-Dichloroet...	0.213	0.216	0.216	0.213	0.211	0.220	0.231	0.261	0.289	11.86	
44)	TP 1,2-Dichloroet...	0.343	0.295	0.349	0.316	0.296	0.314	0.339	0.364	0.327	7.81	
47)	TP Methyl cyclohe...	0.435	0.349	0.494	0.446	0.430	0.488	0.530	0.564	0.467	14.35	
48)	TP Trichloroethene	0.354	0.294	0.236	0.297	0.262	0.263	0.292	0.325	0.356	13.85	
50)	TP Dibromomethane	0.168	0.146	0.175	0.170	0.163	0.179	0.192	0.204	0.175	10.27	
51)	TC 1,2-Dichloropr...	0.240	0.223	0.260	0.242	0.231	0.251	0.259	0.261	0.246	5.74	
53)	TP 2-Chloroethyl ...		0.099	0.128	0.137	0.121	0.150	0.158	0.158	0.136	15.89	
54)	TP Bromodichlorom...	0.583	0.409	0.337	0.404	0.381	0.365	0.393	0.399	0.407	17.03	
57)	TP 1,4-Dioxane	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003#	9.27	
58)	TP cis-1,3-Dichlo...	0.554	0.407	0.364	0.445	0.418	0.406	0.453	0.479	0.495	12.73	
59)	I Chlorobenzene-d5	-----ISTD-----										
60)	S Toluene-d8	1.293	1.289	1.270	1.267	1.235	1.190	1.128	1.035	0.979	1.187	9.75
61)	TC Toluene		0.949	0.781	0.962	0.863	0.801	0.859	0.878	0.874	0.871	7.20
62)	TP 4-Methyl-2-pen...		0.063	0.085	0.107	0.104	0.094	0.100	0.097	0.097	0.093#	14.87
63)	TP Tetrachloroethene	0.544	0.394	0.329	0.456	0.398	0.380	0.391	0.387	0.411	0.410	14.60
65)	TP trans-1,3-Dich...		0.415	0.395	0.473	0.460	0.424	0.439	0.437	0.457	0.437	5.91
67)	TP Ethyl methacry...		0.368	0.328	0.410	0.403	0.374	0.409	0.439	0.424	0.395	9.09
68)	TP 1,1,2-Trichlor...		0.274	0.229	0.276	0.259	0.232	0.249	0.266	0.259	0.255	6.95
69)	TP Chlorodibromom...	0.564	0.424	0.323	0.440	0.407	0.372	0.390	0.378	0.379	0.409	16.44
70)	TP 1,3-Dichloropr...		0.516	0.436	0.529	0.500	0.445	0.454	0.436	0.424	0.468	8.76
71)	TP 1,2-Dibromoethane		0.293	0.263	0.332	0.316	0.283	0.299	0.287	0.284	0.295	7.15
72)	TP 2-Hexanone		0.163	0.155	0.175	0.180	0.158	0.166	0.162	0.152	0.164	5.89
73)	TP Chlorobenzene	1.718	1.199	1.016	1.193	1.089	1.015	1.091	1.192	1.116	1.181	18.09
74)	TC Ethylbenzene		1.780	1.492	1.789	1.674	1.627	1.871	1.955	1.752	1.742	8.29

Response Factor Report Charlie

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	Compound	L0	L1	L1.5	L2	L3	L4	L6	L7	L8	Avg	%RSD
75)	TP 1,1,1,2-Tetrac...	0.576	0.387	0.359	0.435	0.403	0.386	0.430	0.434	0.427	0.426	14.50
76)	TP p/m Xylene	0.993	0.730	0.588	0.738	0.728	0.724	0.876	0.848	0.793	0.780	14.80
77)	TP o Xylene	0.919	0.681	0.583	0.722	0.696	0.701	0.896	0.843	0.778	0.758	14.58
78)	TP Styrene	1.551	1.110	0.953	1.174	1.246	1.339	1.772	1.558	1.421	1.347	19.00
79)	I 1,4-Dichlorobenzene-d4	-----ISTD-----										
80)	TP Bromoform	0.444	0.398	0.487	0.460	0.454	0.535	0.530	0.534	0.480		10.45
82)	TP Isopropylbenzene	3.295	2.531	3.175	2.755	2.530	2.827	2.861	2.857	2.854		9.52
83)	S 4-Bromofluorob...	0.747	0.729	0.708	0.698	0.654	0.623	0.574	0.664	0.720	0.680	8.23
84)	TP Bromobenzene	0.955	0.779	0.879	0.765	0.664	0.695	0.775	0.801	0.789		11.81
85)	TP n-Propylbenzene	3.735	2.996	3.742	3.189	3.025	3.269	3.211	3.208	3.297		8.75
86)	TP 1,4-Dichlorobu...	0.742	0.608	0.735	0.643	0.585	0.601	0.582	0.582	0.635		10.61
87)	TP 1,1,2,2-Tetrac...	1.095	0.750	0.652	0.758	0.657	0.575	0.603	0.629	0.626	*L	0.9991
88)	TP 4-Ethyltoluene	3.226	2.591	3.186	2.780	2.639	2.793	2.770	2.770	2.844		8.27
89)	TP 2-Chlorotoluene	2.169	1.803	2.079	1.888	1.794	1.899	1.851	1.841	1.916		7.10
90)	TP 1,3,5-Trimethy...	2.710	2.248	2.755	2.455	2.443	2.527	2.469	2.512	2.515		6.34
91)	TP 1,2,3-Trichlor...	0.515	0.468	0.566	0.501	0.479	0.472	0.465	0.476	0.493		6.93
92)	TP trans-1,4-Dich...	0.121	0.102	0.147	0.143	0.133	0.133	0.130	0.129	0.130		10.70
93)	TP 4-Chlorotoluene	2.083	1.767	2.188	1.928	1.886	1.972	1.941	1.935	1.962		6.45
94)	TP tert-Butylbenzene	2.417	1.931	2.373	2.125	2.036	2.151	2.134	2.142	2.164		7.44
97)	TP 1,2,4-Trimethy...	2.588	2.194	2.640	2.425	2.403	2.552	2.459	2.443	2.463		5.59
98)	TP sec-Butylbenzene	3.490	2.753	3.558	3.276	3.204	3.314	3.162	3.125	3.235		7.64
99)	TP p-Isopropyltol...	3.093	2.466	3.093	2.832	2.839	2.961	2.853	2.827	2.870		6.92
100)	TP 1,3-Dichlorobe...	1.752	1.408	1.671	1.572	1.545	1.624	1.594	1.613	1.597		6.24
101)	TP 1,4-Dichlorobe...	1.912	1.578	1.807	1.614	1.532	1.565	1.555	1.583	1.643		8.42
102)	TP p-Diethylbenzene	1.761	1.476	1.829	1.678	1.635	1.702	1.674	1.687	1.680		6.08
103)	TP n-Butylbenzene	2.618	2.038	2.572	2.399	2.430	2.410	2.287	2.245	2.375		7.81
104)	TP 1,2-Dichlorobe...	1.605	1.387	1.583	1.492	1.441	1.482	1.472	1.494	1.495		4.73
105)	TP 1,2,4,5-Tetram...	2.758	2.255	2.764	2.540	2.511	2.674	2.723	2.767	2.624		6.85
106)	TP 1,2-Dibromo-3-...	0.113	0.114	0.129	0.123	0.111	0.120	0.134	0.137	0.123		7.93
107)	TP 1,3,5-Trichlor...	1.130	0.917	1.137	1.006	0.958	0.959	1.025	1.053	1.023		7.85
108)	TP Hexachlorobuta...	0.434	0.367	0.469	0.398	0.363	0.356	0.418	0.456	0.408		10.73

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	Compound	L0	L1	L1.5	L2	L3	L4	L6	L7	L8	Avg	%RSD
109)	TP 1,2,4-Trichlor...	1.003	0.846	0.995	0.885	0.801	0.741	0.861	0.937	0.884	10.36	
110)	TP Naphthalene	2.356	1.957	2.312	2.114	1.924	2.029	2.346	2.381	2.177	8.83	
111)	TP 1,2,3-Trichlor...	0.973	0.764	0.923	0.797	0.744	0.769	0.882	0.929	0.848	10.51	

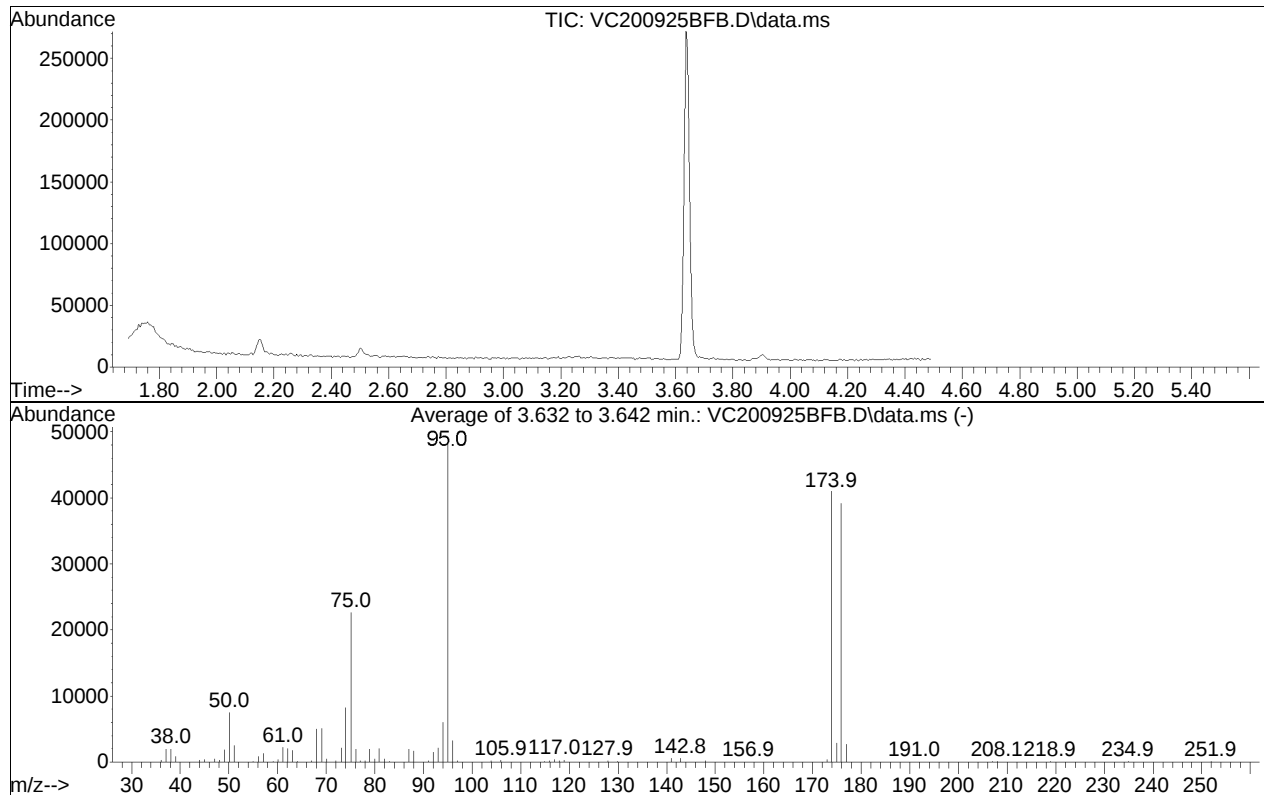
(#) = Out of Range

BFB

Data Path : I:\VOLATILES\Charlie\2020\200925\
Data File : VC200925BFB.D
Acq On : 25 Sep 2020 6:55 am
Operator : CHARLIE:JC
Sample : WG1415936-1
Misc : WG1415936,ICAL
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Tue Sep 29 14:02:31 2020



Spectrum Information: Average of 3.632 to 3.642 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.5	7503	PASS
75	95	30	60	46.8	22621	PASS
95	95	100	100	100.0	48352	PASS
96	95	5	9	6.7	3238	PASS
173	174	0.00	2	1.0	417	PASS
174	95	50	100	84.8	40984	PASS
175	174	5	9	7.1	2891	PASS
176	174	95	101	95.6	39181	PASS
177	176	5	9	6.9	2705	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A03.D
 Acq On : 25 Sep 2020 8:17 am
 Operator : CHARLIE:JC
 Sample : I8260STDLO.5PPB
 Misc : WG1415936,ICAL
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 29 14:01:34 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:00:03 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\200925\VC200925A08.D
 Sub List : 8260-L0 - SOILS Level 0.5ppb with Chlorodibromomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.038	96	175256	20.000	ug/L	0.00
Standard Area 1 = 167207			Recovery = 104.81%			
59) Chlorobenzene-d5	9.566	117	136295	20.000	ug/L	0.00
Standard Area 1 = 143890			Recovery = 94.72%			
79) 1,4-Dichlorobenzene-d4	12.256	152	76044	20.000	ug/L	0.00
Standard Area 1 = 107069			Recovery = 71.02%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.225	113	45715	19.543	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 97.72%			
43) 1,2-Dichloroethane-d4	5.755	65	37249	18.478	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 92.39%			
60) Toluene-d8	7.726	98	176224	21.780	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 108.90%			
83) 4-Bromofluorobenzene	11.050	95	56816	21.986	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 109.93%			
Target Compounds						Qvalue
37) 1,1,1-Trichloroethane	5.257	97	2422	0.672	ug/L	# 61
40) 1,1-Dichloropropene	5.372	75	1907	0.643	ug/L	94
41) Benzene	5.613	78	6795	0.667	ug/L	94
48) Trichloroethene	6.232	95	1549	0.594	ug/L	93
54) Bromodichloromethane	6.835	83	2556	0.714	ug/L	# 89
58) cis-1,3-Dichloropropene	7.532	75	2428	0.620	ug/L	# 86
63) Tetrachloroethene	8.235	166	1852	0.663	ug/L	91
69) Chlorodibromomethane	8.670	129	1921	0.690	ug/L	93
73) Chlorobenzene	9.587	112	5855	0.728	ug/L	89
75) 1,1,1,2-Tetrachloroethane	9.666	131	1961	0.675	ug/L	85
76) p/m Xylene	9.813	106	6769	1.274	ug/L	95
77) o Xylene	10.353	106	6264	1.213	ug/L	97
78) Styrene	10.416	104	10569	1.151	ug/L	92
87) 1,1,2,2-Tetrachloroethane	11.297	83	2082	0.562	ug/L	95

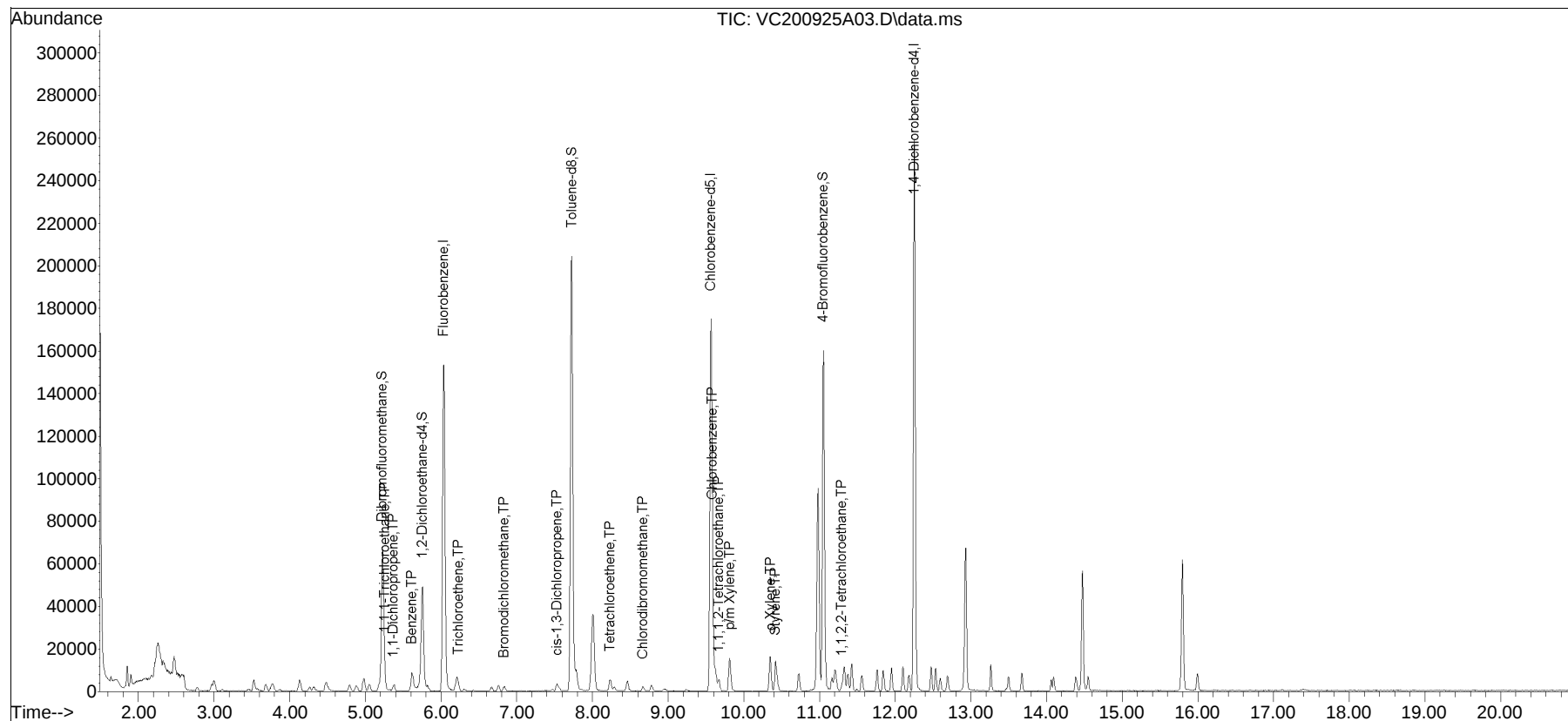
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A03.D
 Acq On : 25 Sep 2020 8:17 am
 Operator : CHARLIE:JC
 Sample : I8260STDLO.5PPB
 Misc : WG1415936,ICAL
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 29 14:01:34 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:00:03 2020
 Response via : Initial Calibration

Sub List : 8260-L0 - SOILS Level 0.5ppb with Chlorodibromomethane



Manual Integration Report

Data Path	: I:\VOLATILES\Charlie\2020\QMethod	: C_200925A_8260.m
Data File	: VC200925A03.D	Operator : CHARLIE:JC
Date Inj'd	: 9/25/2020 8:17 am	Instrument : Charlie
Sample	: I8260STDLO.5PPB	Quant Date : 9/29/2020 2:01 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A04.D
 Acq On : 25 Sep 2020 8:44 am
 Operator : CHARLIE:JC
 Sample : I8260STD1PPB
 Misc : WG1415936,ICAL
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 29 14:02:10 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:00:03 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\200925\VC200925A08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.032	96	171778	20.000	ug/L	0.00
Standard Area 1 = 167207			Recovery =	102.73%		
59) Chlorobenzene-d5	9.566	117	135218	20.000	ug/L	0.00
Standard Area 1 = 143890			Recovery =	93.97%		
79) 1,4-Dichlorobenzene-d4	12.251	152	74964	20.000	ug/L	0.00
Standard Area 1 = 107069			Recovery =	70.01%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.225	113	45175	19.703	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	98.52%		
43) 1,2-Dichloroethane-d4	5.749	65	37045	18.749	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	93.74%		
60) Toluene-d8	7.721	98	174280	21.712	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	108.56%		
83) 4-Bromofluorobenzene	11.050	95	54676	21.463	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	107.32%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.644	85	2765	1.139	ug/L	# 92
3) Chloromethane	1.838	50	2610	1.549	ug/L	# 88
4) Vinyl chloride	1.901	62	4519	1.167	ug/L	# 98
5) Bromomethane	2.215	94	4998	1.565	ug/L	# 98
6) Chloroethane	2.336	64	4404	1.086	ug/L	# 96
7) Trichlorofluoromethane	2.472	101	10295	1.079	ug/L	# 100
8) Ethyl ether	2.776	74	1259	1.085	ug/L	# 92
10) 1,1-Dichloroethene	2.976	96	1867	0.972	ug/L	# 87
11) Carbon disulfide	3.002	76	6043	1.202	ug/L	# 99
12) Freon-113	3.007	101	1924	0.978	ug/L	# 81
14) Acrolein	0.000		0	N.D.		
15) Methylene chloride	3.526	84	3620	1.428	ug/L	# 98
17) Acetone	3.573	43	1495	0.638	ug/L	# 88
18) trans-1,2-Dichloroethene	3.684	96	2198	0.975	ug/L	# 97
19) Methyl acetate	3.699	43	1097	1.001	ug/L	# 59
20) Methyl tert-butyl ether	3.767	73	6520	1.047	ug/L	# 84
21) tert-Butyl alcohol	3.862	59	1422	5.936	ug/L	# 72
22) Diisopropyl ether	4.129	45	6474	1.068	ug/L	# 93
23) 1,1-Dichloroethane	4.266	63	3941	1.107	ug/L	# 94
24) Halothane	4.307	117	1970	1.059	ug/L	# 93
25) Acrylonitrile	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A04.D
 Acq On : 25 Sep 2020 8:44 am
 Operator : CHARLIE:JC
 Sample : I8260STD1PPB
 Misc : WG1415936,ICAL
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 29 14:02:10 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:00:03 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\200925\VC200925A08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.470	59	6626	1.044	ug/L	92
27) Vinyl acetate	4.512	43	3760M1	0.839	ug/L	
28) cis-1,2-Dichloroethene	4.790	96	2670	1.017	ug/L	96
29) 2,2-Dichloropropane	4.874	77	3199	1.025	ug/L	97
30) Bromochloromethane	4.979	128	1314	0.948	ug/L	98
31) Cyclohexane	4.979	56	3174	1.044	ug/L	96
32) Chloroform	5.047	83	4885	1.171	ug/L	98
33) Ethyl acetate	5.178	43	1123	0.676	ug/L #	67
34) Carbon tetrachloride	5.188	117	3427	1.029	ug/L	96
35) Tetrahydrofuran	5.204	42	585	1.101	ug/L #	44
37) 1,1,1-Trichloroethane	5.251	97	3523	0.997	ug/L	98
39) 2-Butanone	5.351	43	934M1	1.209	ug/L	
40) 1,1-Dichloropropene	5.377	75	2794	0.961	ug/L	95
41) Benzene	5.613	78	9948	0.996	ug/L	97
42) tert-Amyl methyl ether	5.718	73	6573	0.954	ug/L	92
44) 1,2-Dichloroethane	5.817	62	2946	1.049	ug/L	91
47) Methyl cyclohexane	6.195	83	3734	0.931	ug/L	92
48) Trichloroethene	6.221	95	2525	0.988	ug/L	96
50) Dibromomethane	6.656	93	1446	0.964	ug/L	97
51) 1,2-Dichloropropane	6.751	63	2065	0.978	ug/L	97
53) 2-Chloroethyl vinyl ether	7.479	63	588M1	0.504	ug/L	
54) Bromodichloromethane	6.829	83	3515	1.001	ug/L #	92
57) 1,4-Dioxane	7.044	88	815	31.357	ug/L #	53
58) cis-1,3-Dichloropropene	7.527	75	3495	0.910	ug/L #	88
61) Toluene	7.778	92	6417	1.090	ug/L	97
62) 4-Methyl-2-pentanone	8.219	58	427	0.676	ug/L #	18
63) Tetrachloroethene	8.229	166	2663	0.961	ug/L	93
65) trans-1,3-Dichloropropene	8.287	75	2807	0.949	ug/L	97
67) Ethyl methacrylate	8.460	69	2489	0.933	ug/L	88
68) 1,1,2-Trichloroethane	8.455	83	1853	1.073	ug/L	92
69) Chlorodibromomethane	8.670	129	2870	1.039	ug/L	91
70) 1,3-Dichloropropane	8.780	76	3488	1.103	ug/L	100
71) 1,2-Dibromoethane	8.948	107	1982	0.994	ug/L	91
72) 2-Hexanone	9.225	43	1103	0.995	ug/L #	72
73) Chlorobenzene	9.582	112	8109	1.016	ug/L	91
74) Ethylbenzene	9.624	91	12034	1.022	ug/L	99
75) 1,1,1,2-Tetrachloroethane	9.666	131	2615	0.907	ug/L #	82
76) p/m Xylene	9.807	106	9868	1.872	ug/L	93
77) o Xylene	10.353	106	9204	1.797	ug/L	98
78) Styrene	10.421	104	15005	1.647	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A04.D
 Acq On : 25 Sep 2020 8:44 am
 Operator : CHARLIE:JC
 Sample : I8260STD1PPB
 Misc : WG1415936,ICAL
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 29 14:02:10 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:00:03 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\200925\VC200925A08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.442	173	1663	0.924	ug/L	96
82)	Isopropylbenzene	10.720	105	12349	1.154	ug/L	97
84)	Bromobenzene	11.160	156	3578	1.210	ug/L	95
85)	n-Propylbenzene	11.202	91	14000	1.133	ug/L	100
86)	1,4-Dichlorobutane	11.223	55	2783	1.170	ug/L	98
87)	1,1,2,2-Tetrachloroethane	11.291	83	2813	0.889	ug/L	96
88)	4-Ethyltoluene	11.333	105	12093	1.134	ug/L	100
89)	2-Chlorotoluene	11.375	91	8131M1	1.132	ug/L	
90)	1,3,5-Trimethylbenzene	11.422	105	10159	1.078	ug/L	95
91)	1,2,3-Trichloropropane	11.433	75	1931	1.045	ug/L	95
92)	trans-1,4-Dichloro-2-b...	11.496	53	455	0.935	ug/L #	82
93)	4-Chlorotoluene	11.559	91	7807	1.061	ug/L	91
94)	tert-Butylbenzene	11.758	119	9058	1.117	ug/L	97
97)	1,2,4-Trimethylbenzene	11.842	105	9701	1.051	ug/L	95
98)	sec-Butylbenzene	11.947	105	13081	1.079	ug/L	97
99)	p-Isopropyltoluene	12.099	119	11592	1.077	ug/L	98
100)	1,3-Dichlorobenzene	12.182	146	6567	1.097	ug/L	97
101)	1,4-Dichlorobenzene	12.266	146	7165M3	1.163	ug/L	
102)	p-Diethylbenzene	12.476	119	6601	1.048	ug/L	98
103)	n-Butylbenzene	12.534	91	9812	1.102	ug/L	98
104)	1,2-Dichlorobenzene	12.691	146	6014	1.074	ug/L	94
105)	1,2,4,5-Tetramethylben...	13.263	119	10336	1.051	ug/L	98
106)	1,2-Dibromo-3-chloropr...	13.472	155	424	0.921	ug/L	98
107)	1,3,5-Trichlorobenzene	13.498	180	4235	1.104	ug/L	99
108)	Hexachlorobutadiene	14.060	225	1628	1.066	ug/L	97
109)	1,2,4-Trichlorobenzene	14.096	180	3761	1.135	ug/L #	94
110)	Naphthalene	14.385	128	8830	1.082	ug/L	100
111)	1,2,3-Trichlorobenzene	14.552	180	3648	1.148	ug/L	98

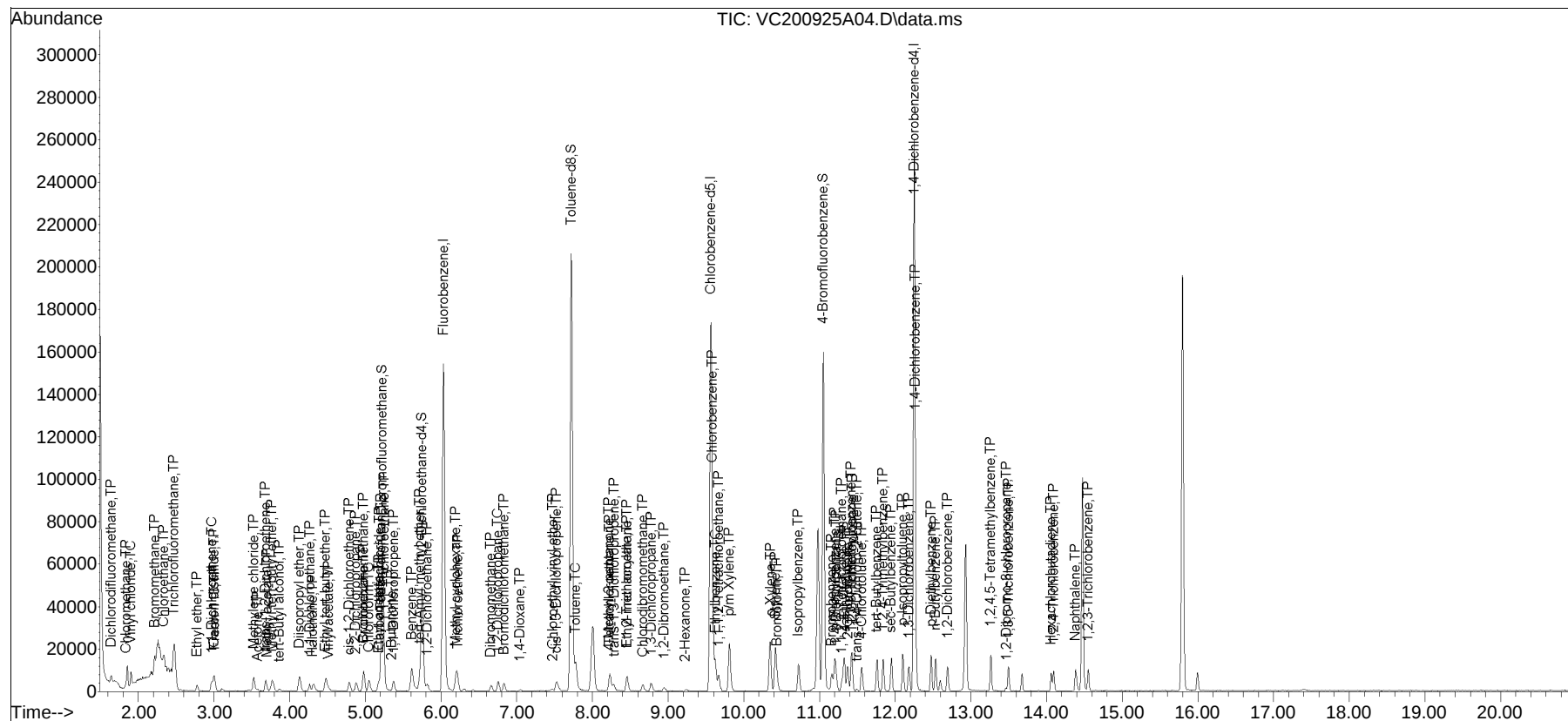
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path : I:\VOLATILES\Charlie\2020\200925\  
Data File : VC200925A04.D  
Acq On    : 25 Sep 2020    8:44 am  
Operator  : CHARLIE:JC  
Sample    : I8260STDL1PPB  
Misc      : WG1415936,ICAL  
ALS Vial  : 4    Sample Multiplier: 1
```

Quant Time: Sep 29 14:02:10 2020
Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 29 14:00:03 2020
Response via : Initial Calibration

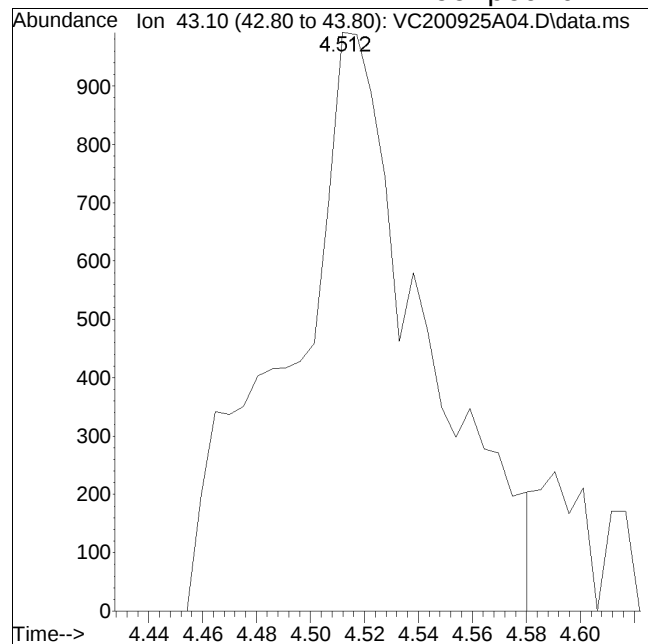
Sub List : 8260-CurveSoil - Megamix plus Diox25\VC200925A08.D•



Manual Integration Report

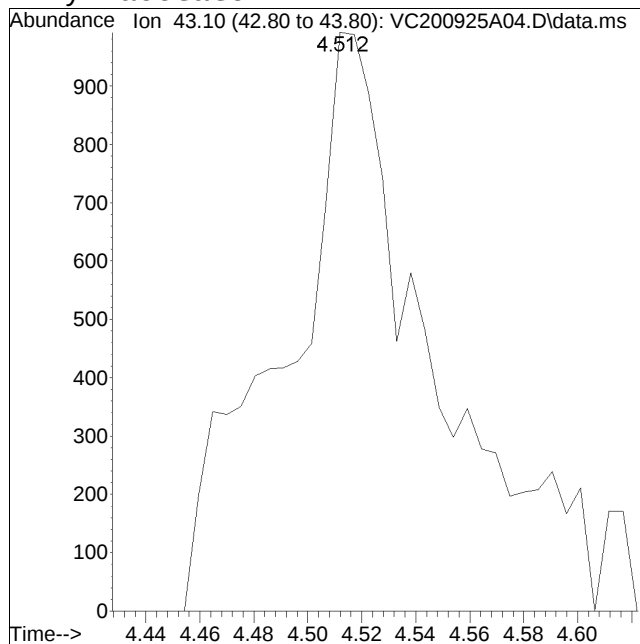
Data Path : I:\VOLATILES\Charlie\2020\QMethod : C_200925A_8260.m
Data File : VC200925A04.D Operator : CHARLIE:JC
Date Inj'd : 9/25/2020 8:44 am Instrument : Charlie
Sample : I8260STD1PPB Quant Date : 9/29/2020 2:02 pm

Compound #27: Vinyl acetate



Original Peak Response = 3501

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

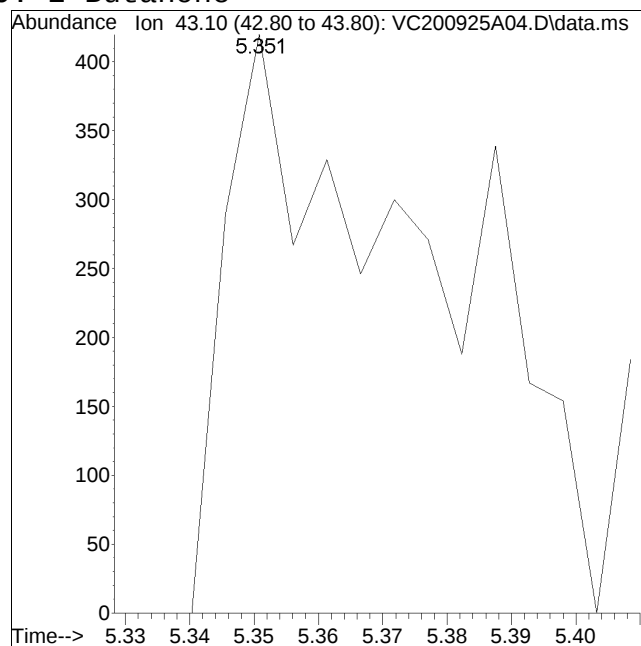
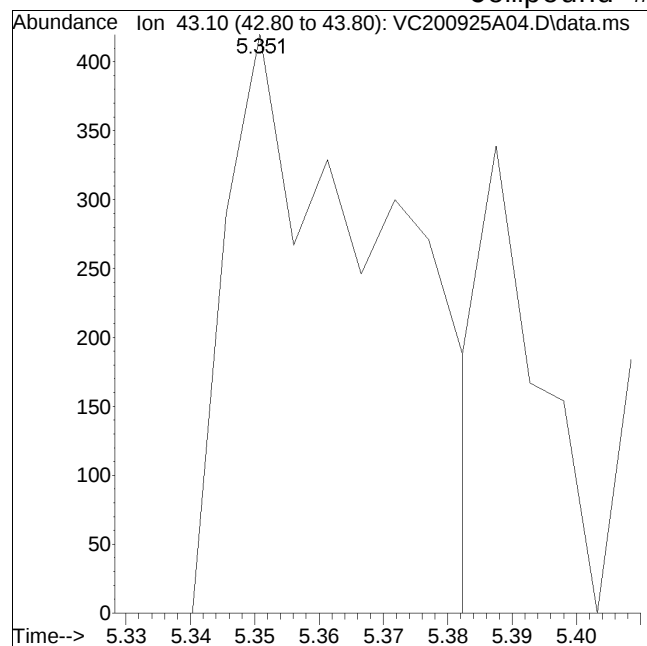


Manual Peak Response = 3760 M1

Manual Integration Report

Data Path : I:\VOLATILES\Charlie\2020\QMethod : C_200925A_8260.m
Data File : VC200925A04.D Operator : CHARLIE:JC
Date Inj'd : 9/25/2020 8:44 am Instrument : Charlie
Sample : I8260STDL1PPB Quant Date : 9/29/2020 2:02 pm

Compound #39: 2-Butanone



Original Peak Response = 727

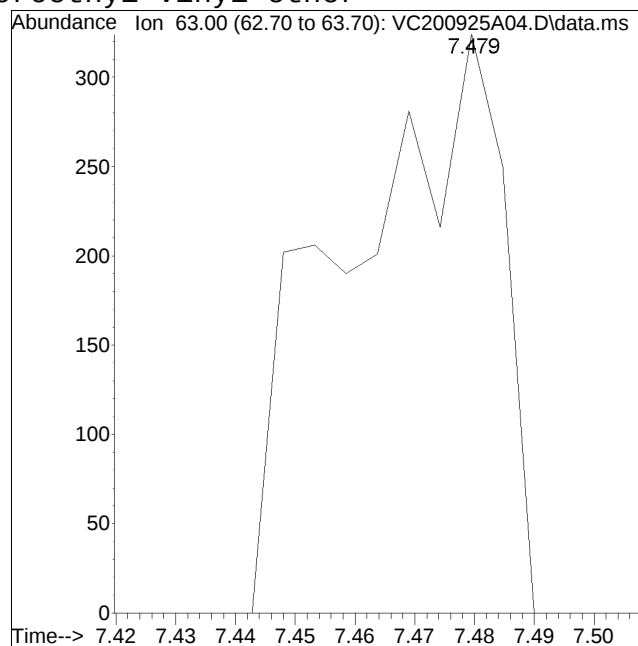
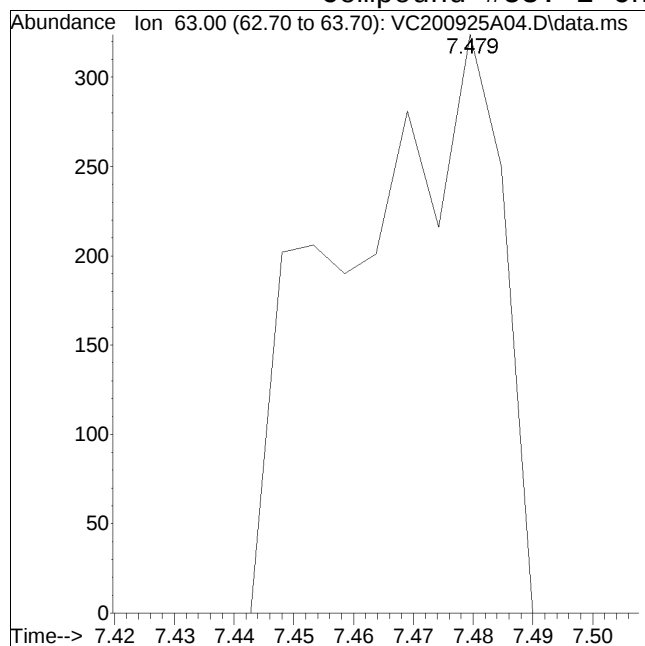
Manual Peak Response = 934 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\Charlie\2020\QMethod : C_200925A_8260.m
Data File : VC200925A04.D Operator : CHARLIE:JC
Date Inj'd : 9/25/2020 8:44 am Instrument : Charlie
Sample : I8260STD1PPB Quant Date : 9/29/2020 2:02 pm

Compound #53: 2-Chloroethyl vinyl ether

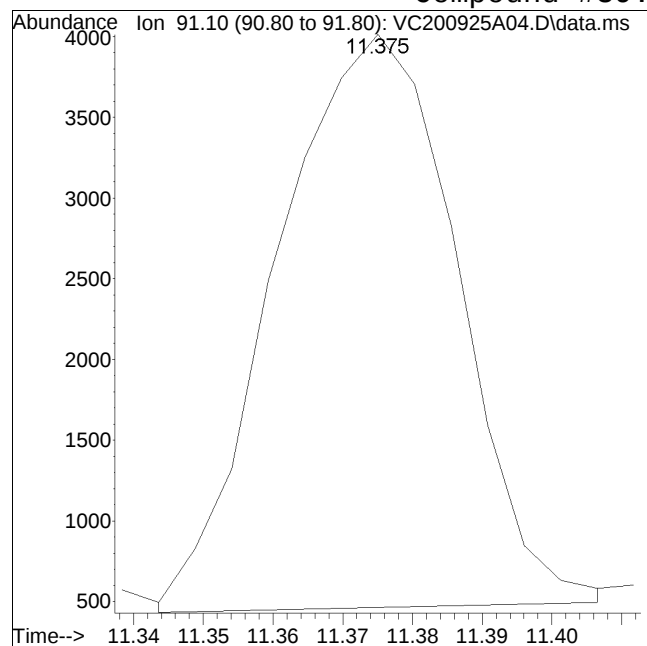


M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

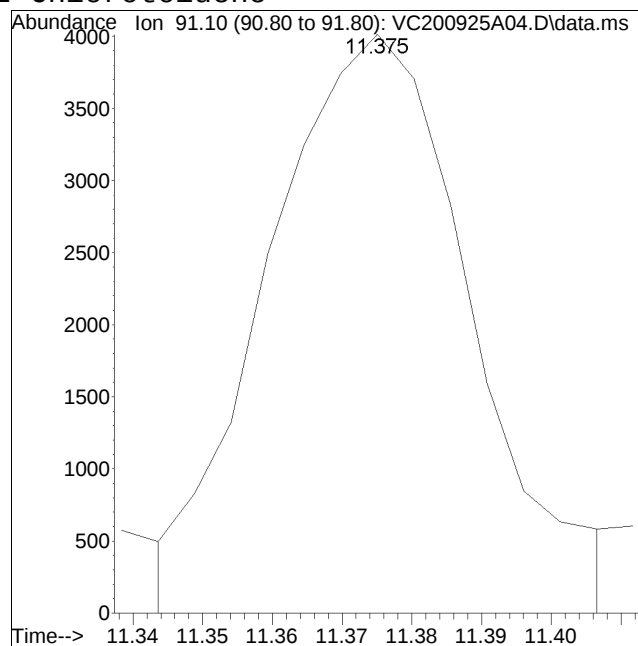
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Data File : VC200925A04.D Operator : CHARLIE:JC
Date Inj'd : 9/25/2020 8:44 am Instrument : Charlie
Sample : I8260STD1PPB Quant Date : 9/29/2020 2:02 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 6376

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

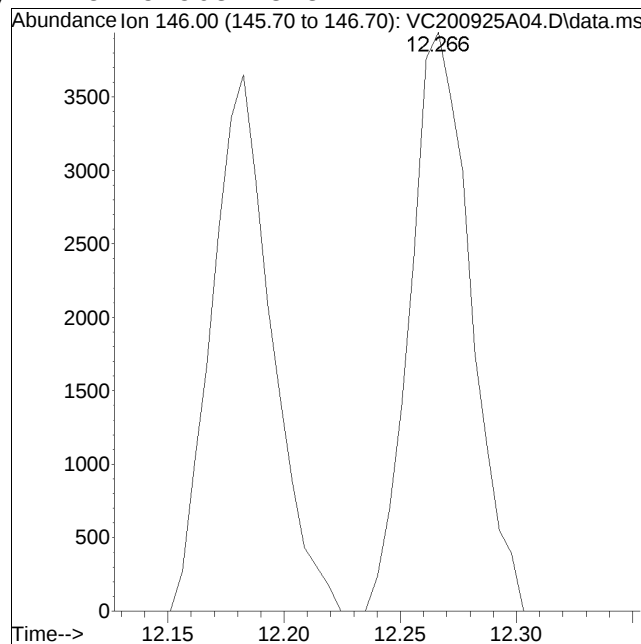
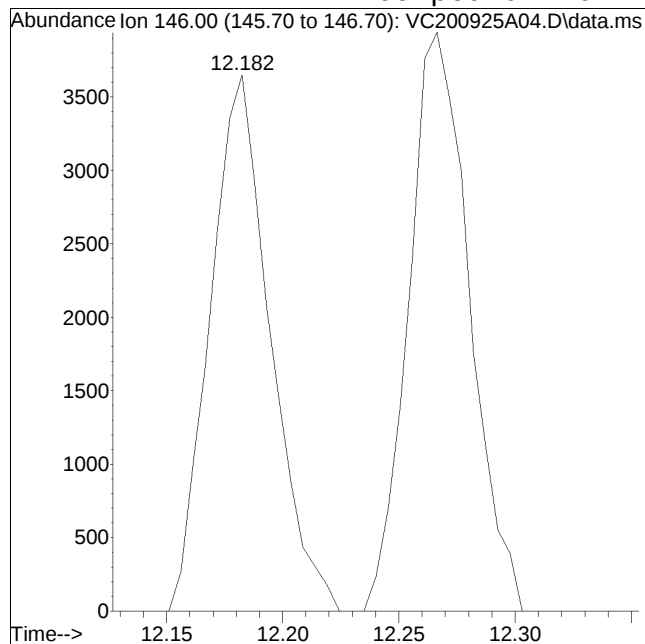


Manual Peak Response = 8131 M1

Manual Integration Report

Data Path : I:\VOLATILES\Charlie\2020\QMethod : C_200925A_8260.m
Data File : VC200925A04.D Operator : CHARLIE:JC
Date Inj'd : 9/25/2020 8:44 am Instrument : Charlie
Sample : I8260STDL1PPB Quant Date : 9/29/2020 2:02 pm

Compound #101: 1,4-Dichlorobenzene



Original Peak Response = 6567

Manual Peak Response = 7165 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A05.D
 Acq On : 25 Sep 2020 9:11 am
 Operator : CHARLIE:JC
 Sample : I8260STD12PPB
 Misc : WG1415936,ICAL
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 29 14:02:55 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\200925\VC200925A08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.038	96	188645	20.000	ug/L	0.00
Standard Area 1 = 167207			Recovery	=	112.82%	
59) Chlorobenzene-d5	9.572	117	149489	20.000	ug/L	0.00
Standard Area 1 = 143890			Recovery	=	103.89%	
79) 1,4-Dichlorobenzene-d4	12.256	152	86069	20.000	ug/L	0.00
Standard Area 1 = 107069			Recovery	=	80.39%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.236	113	49414	19.625	ug/L	0.01
Spiked Amount 20.000	Range 70 - 130		Recovery	=	98.13%	
43) 1,2-Dichloroethane-d4	5.755	65	40669	18.743	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	93.71%	
60) Toluene-d8	7.726	98	189881	21.397	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	106.99%	
83) 4-Bromofluorobenzene	11.055	95	60905	20.823	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	104.12%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.655	85	4753	1.783	ug/L	98
3) Chloromethane	1.849	50	4205	2.272	ug/L	92
4) Vinyl chloride	1.917	62	8330	1.959	ug/L	100
5) Bromomethane	2.231	94	8612	2.455	ug/L	98
6) Chloroethane	2.347	64	8166	1.834	ug/L	96
7) Trichlorofluoromethane	2.488	101	18171	1.735	ug/L	97
8) Ethyl ether	2.792	74	2308	1.811	ug/L	94
10) 1,1-Dichloroethene	2.981	96	3699	1.753	ug/L	93
11) Carbon disulfide	3.012	76	10535	1.908	ug/L	99
12) Freon-113	3.018	101	3510	1.625	ug/L	85
14) Acrolein	3.322	56	335	1.354	ug/L #	18
15) Methylene chloride	3.532	84	5505	1.977	ug/L	99
17) Acetone	3.579	43	2629	2.433	ug/L #	80
18) trans-1,2-Dichloroethene	3.694	96	4227	1.707	ug/L	96
19) Methyl acetate	3.705	43	2244	1.865	ug/L #	78
20) Methyl tert-butyl ether	3.778	73	12265	1.794	ug/L	97
21) tert-Butyl alcohol	3.872	59	2697	10.252	ug/L #	71
22) Diisopropyl ether	4.140	45	12104	1.818	ug/L	99
23) 1,1-Dichloroethane	4.276	63	7169	1.834	ug/L	100
24) Halothane	4.323	117	3457	1.693	ug/L	99
25) Acrylonitrile	4.344	53	425M1	0.790	ug/L	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A05.D
 Acq On : 25 Sep 2020 9:11 am
 Operator : CHARLIE:JC
 Sample : I8260STD12PPB
 Misc : WG1415936,ICAL
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 29 14:02:55 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\200925\VC200925A08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.486	59	11593	1.663	ug/L	99
27) Vinyl acetate	4.517	43	7711M1	1.568	ug/L	
28) cis-1,2-Dichloroethene	4.800	96	4938	1.713	ug/L	94
29) 2,2-Dichloropropane	4.895	77	6020	1.756	ug/L	97
30) Bromochloromethane	4.979	128	2439	1.602	ug/L	94
31) Cyclohexane	4.984	56	5100	1.528	ug/L	94
32) Chloroform	5.057	83	8475	1.850	ug/L	95
33) Ethyl acetate	5.178	43	3444	1.887	ug/L #	73
34) Carbon tetrachloride	5.194	117	5927	1.620	ug/L	95
35) Tetrahydrofuran	5.209	42	1256	2.152	ug/L #	63
37) 1,1,1-Trichloroethane	5.257	97	6402	1.650	ug/L	96
39) 2-Butanone	5.367	43	1743	2.054	ug/L #	60
40) 1,1-Dichloropropene	5.382	75	5060	1.585	ug/L	97
41) Benzene	5.624	78	18850	1.719	ug/L	97
42) tert-Amyl methyl ether	5.728	73	12866	1.701	ug/L #	89
44) 1,2-Dichloroethane	5.828	62	5567	1.804	ug/L	95
47) Methyl cyclohexane	6.200	83	6578	1.493	ug/L	96
48) Trichloroethene	6.221	95	4455	1.587	ug/L	97
50) Dibromomethane	6.667	93	2745	1.667	ug/L	96
51) 1,2-Dichloropropane	6.761	63	4203	1.812	ug/L	92
53) 2-Chloroethyl vinyl ether	7.459	63	1871	1.460	ug/L #	39
54) Bromodichloromethane	6.835	83	6350	1.647	ug/L	99
57) 1,4-Dioxane	7.050	88	2353	82.438	ug/L #	86
58) cis-1,3-Dichloropropene	7.527	75	6865	1.628	ug/L	97
61) Toluene	7.789	92	11682	1.794	ug/L	96
62) 4-Methyl-2-pentanone	8.229	58	1272	1.821	ug/L	97
63) Tetrachloroethene	8.235	166	4922	1.606	ug/L	96
65) trans-1,3-Dichloropropene	8.282	75	5900	1.804	ug/L	94
67) Ethyl methacrylate	8.460	69	4904	1.663	ug/L	89
68) 1,1,2-Trichloroethane	8.460	83	3421	1.792	ug/L	94
69) Chlorodibromomethane	8.675	129	4829	1.581	ug/L	94
70) 1,3-Dichloropropane	8.780	76	6523	1.867	ug/L	95
71) 1,2-Dibromoethane	8.942	107	3937	1.787	ug/L	96
72) 2-Hexanone	9.241	43	2311M1	1.885	ug/L	
73) Chlorobenzene	9.592	112	15181	1.720	ug/L	96
74) Ethylbenzene	9.629	91	22304	1.713	ug/L	97
75) 1,1,1,2-Tetrachloroethane	9.676	131	5373	1.686	ug/L	96
76) p/m Xylene	9.813	106	17566	3.014	ug/L	100
77) o Xylene	10.347	106	17425	3.077	ug/L	96
78) Styrene	10.416	104	28499	2.830	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A05.D
 Acq On : 25 Sep 2020 9:11 am
 Operator : CHARLIE:JC
 Sample : I8260STD12PPB
 Misc : WG1415936,ICAL
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 29 14:02:55 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\200925\VC200925A08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.447	173	3423	1.657	ug/L	99
82)	Isopropylbenzene	10.725	105	21782	1.774	ug/L	100
84)	Bromobenzene	11.171	156	6707	1.975	ug/L	98
85)	n-Propylbenzene	11.207	91	25783	1.817	ug/L	98
86)	1,4-Dichlorobutane	11.223	55	5232	1.915	ug/L	96
87)	1,1,2,2-Tetrachloroethane	11.302	83	5611	1.782	ug/L	97
88)	4-Ethyltoluene	11.328	105	22303	1.822	ug/L	96
89)	2-Chlorotoluene	11.375	91	15516	1.882	ug/L	95
90)	1,3,5-Trimethylbenzene	11.428	105	19347	1.788	ug/L	98
91)	1,2,3-Trichloropropane	11.438	75	4031	1.900	ug/L	95
92)	trans-1,4-Dichloro-2-b...	11.490	53	876	1.568	ug/L #	80
93)	4-Chlorotoluene	11.559	91	15205	1.800	ug/L	92
94)	tert-Butylbenzene	11.763	119	16617	1.785	ug/L	93
97)	1,2,4-Trimethylbenzene	11.847	105	18884	1.782	ug/L	99
98)	sec-Butylbenzene	11.952	105	23696	1.702	ug/L	95
99)	p-Isopropyltoluene	12.104	119	21221	1.718	ug/L	97
100)	1,3-Dichlorobenzene	12.177	146	12118	1.763	ug/L	96
101)	1,4-Dichlorobenzene	12.266	146	13583	1.921	ug/L	98
102)	p-Diethylbenzene	12.476	119	12701	1.757	ug/L	95
103)	n-Butylbenzene	12.534	91	17545	1.717	ug/L	96
104)	1,2-Dichlorobenzene	12.696	146	11939	1.856	ug/L	93
105)	1,2,4,5-Tetramethylben...	13.263	119	19411	1.719	ug/L	97
106)	1,2-Dibromo-3-chloropr...	13.462	155	985	1.863	ug/L	87
107)	1,3,5-Trichlorobenzene	13.499	180	7892	1.792	ug/L	99
108)	Hexachlorobutadiene	14.065	225	3155	1.799	ug/L	97
109)	1,2,4-Trichlorobenzene	14.096	180	7282	1.915	ug/L	97
110)	Naphthalene	14.385	128	16846	1.798	ug/L	100
111)	1,2,3-Trichlorobenzene	14.552	180	6577	1.803	ug/L	97

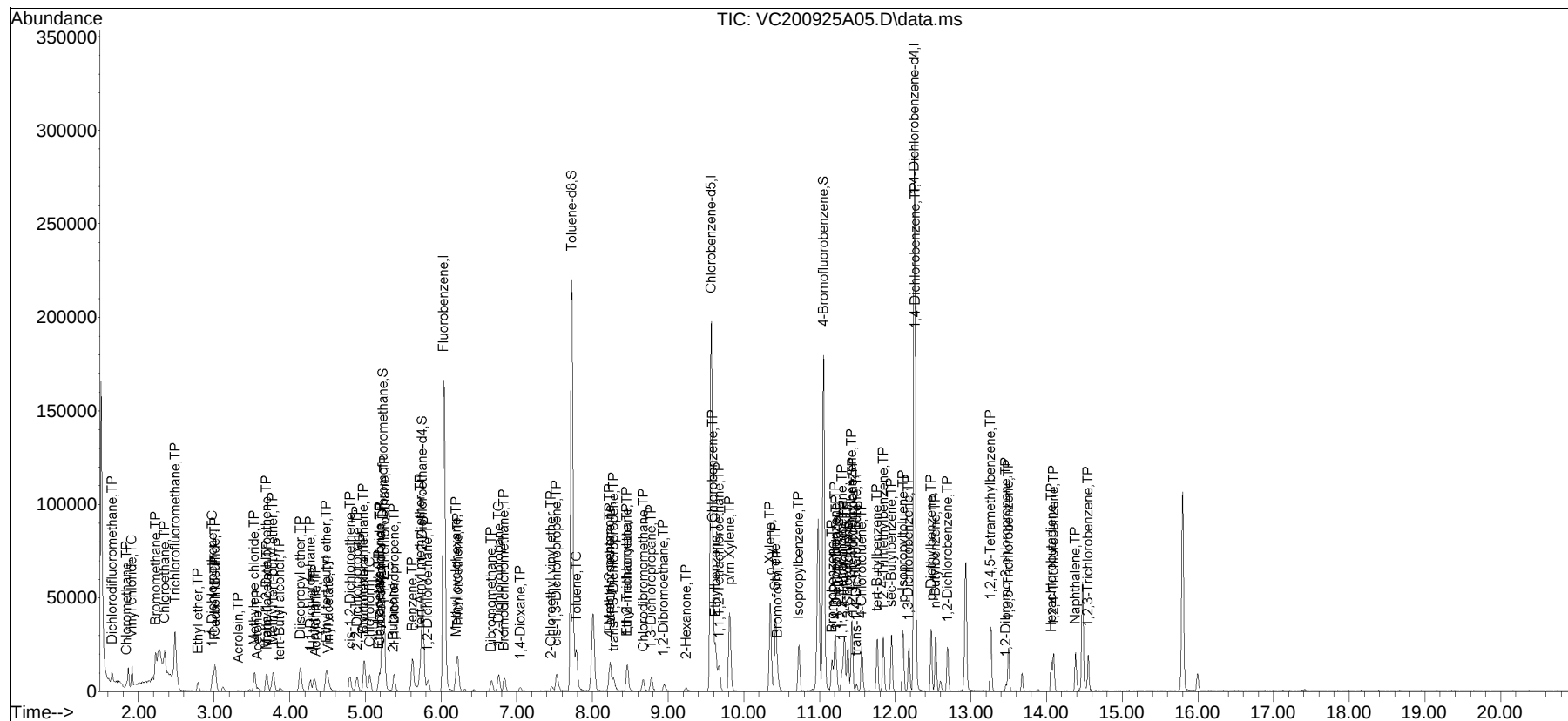
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A05.D
 Acq On : 25 Sep 2020 9:11 am
 Operator : CHARLIE:JC
 Sample : I8260STD L2PPB
 Misc : WG1415936,ICAL
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 29 14:02:55 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

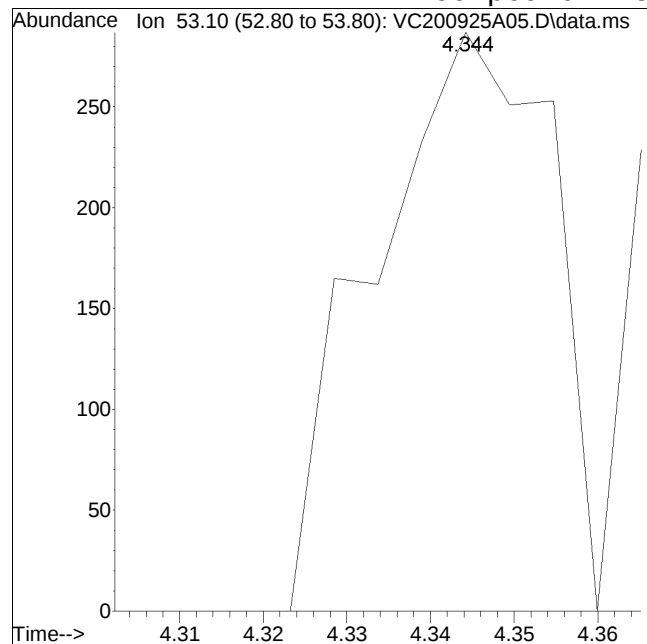
Sub List : 8260-CurveSoil - Megamix plus Diox25\VC200925A08.D•



Manual Integration Report

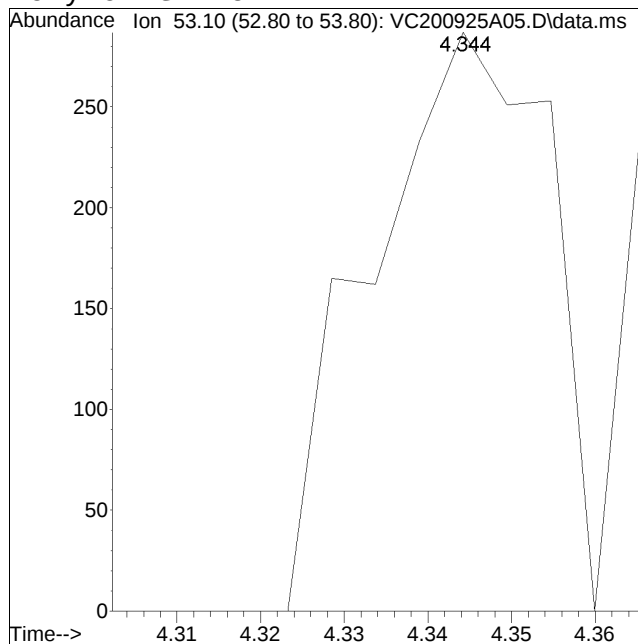
Data Path : I:\VOLATILES\Charlie\2020\QMethod : C_200925A_8260.m
Data File : VC200925A05.D Operator : CHARLIE:JC
Date Inj'd : 9/25/2020 9:11 am Instrument : Charlie
Sample : I8260STDL2PPB Quant Date : 9/29/2020 2:02 pm

Compound #25: Acrylonitrile



Original Peak Response = 425

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

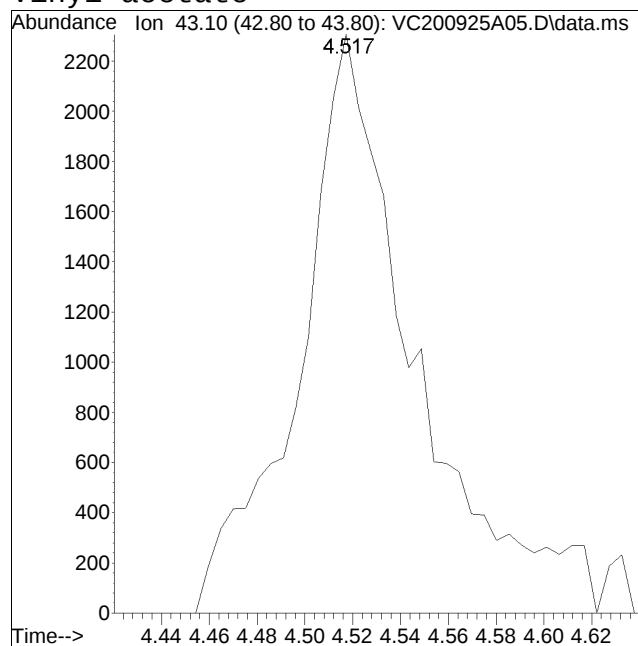
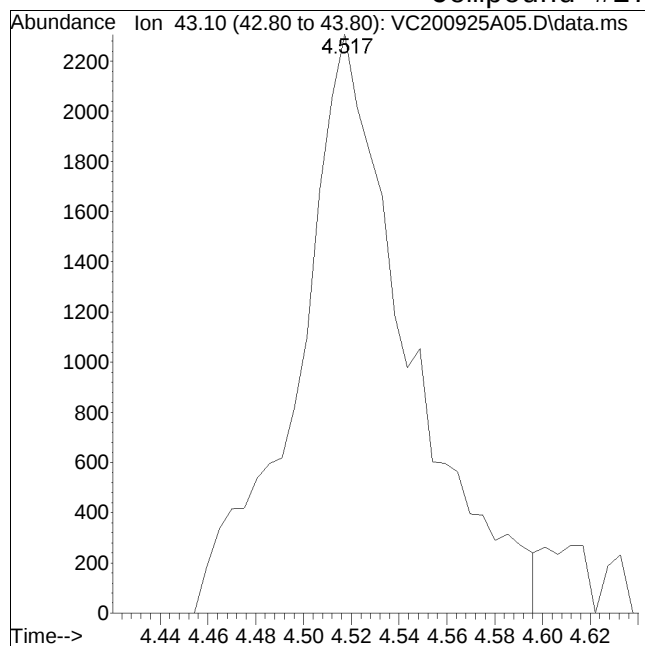


Manual Peak Response = 425 M1

Manual Integration Report

Data Path : I:\VOLATILES\Charlie\2020\QMethod : C_200925A_8260.m
Data File : VC200925A05.D Operator : CHARLIE:JC
Date Inj'd : 9/25/2020 9:11 am Instrument : Charlie
Sample : I8260STDL2PPB Quant Date : 9/29/2020 2:02 pm

Compound #27: Vinyl acetate



Original Peak Response = 7385

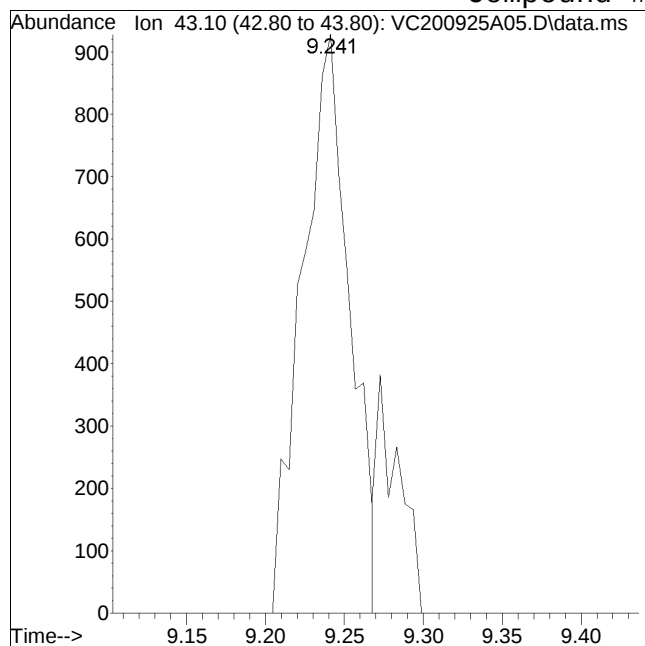
Manual Peak Response = 7711 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

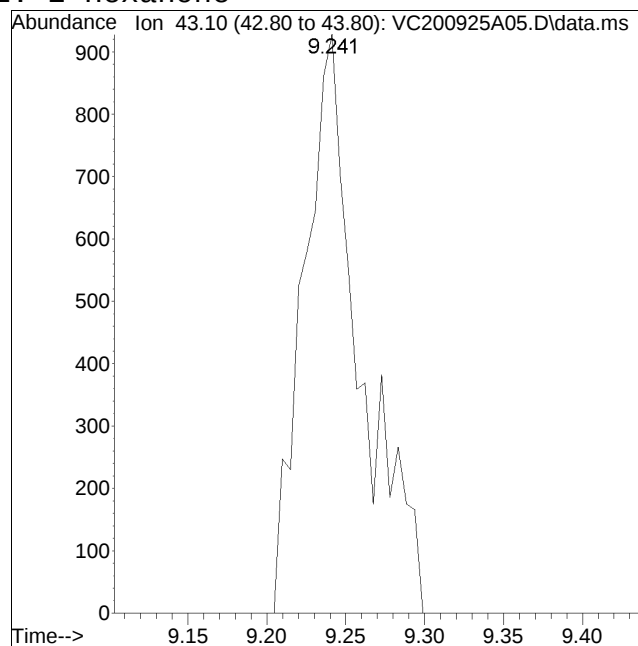
Data Path : I:\VOLATILES\Charlie\2020\QMethod : C_200925A_8260.m
Data File : VC200925A05.D Operator : CHARLIE:JC
Date Inj'd : 9/25/2020 9:11 am Instrument : Charlie
Sample : I8260STDL2PPB Quant Date : 9/29/2020 2:02 pm

Compound #72: 2-Hexanone



Original Peak Response = 1942

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 2311 M1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A06.D
 Acq On : 25 Sep 2020 9:39 am
 Operator : CHARLIE:JC
 Sample : I8260STD4PPB
 Misc : WG1415936,ICAL
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 29 13:43:51 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 13:36:59 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\200925\VC200925A08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.027	96	157668	20.000	ug/L	0.00
Standard Area 1 = 167207			Recovery	=	94.30%	
59) Chlorobenzene-d5	9.566	117	125505	20.000	ug/L	0.00
Standard Area 1 = 143890			Recovery	=	87.22%	
79) 1,4-Dichlorobenzene-d4	12.251	152	73011	20.000	ug/L	0.00
Standard Area 1 = 107069			Recovery	=	68.19%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.220	113	42633	19.743	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	98.72%	
43) 1,2-Dichloroethane-d4	5.750	65	33661	19.390	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	96.95%	
60) Toluene-d8	7.721	98	159054	21.304	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	106.52%	
83) 4-Bromofluorobenzene	11.050	95	50962	22.419	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	112.10%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.639	85	10658	5.134	ug/L	100
3) Chloromethane	1.828	50	7926	5.769	ug/L	99
4) Vinyl chloride	1.901	62	18260	5.228	ug/L	99
5) Bromomethane	2.210	94	15272	6.163	ug/L	100
6) Chloroethane	2.331	64	16876	4.761	ug/L	99
7) Trichlorofluoromethane	2.473	101	42063	4.888	ug/L	100
8) Ethyl ether	2.772	74	4588	4.758	ug/L	97
10) 1,1-Dichloroethene	2.965	96	8205	4.987	ug/L	94
11) Carbon disulfide	2.997	76	20535	5.109	ug/L	98
12) Freon-113	3.002	101	8455	4.911	ug/L	88
14) Acrolein	3.301	56	758	3.645	ug/L	87
15) Methylene chloride	3.521	84	10023	5.192	ug/L	99
17) Acetone	3.568	43	2597	7.071	ug/L	93
18) trans-1,2-Dichloroethene	3.679	96	9005	4.721	ug/L	96
19) Methyl acetate	3.694	43	4366	4.736	ug/L	93
20) Methyl tert-butyl ether	3.773	73	24441	4.784	ug/L	95
21) tert-Butyl alcohol	3.867	59	4735	25.339	ug/L	94
22) Diisopropyl ether	4.129	45	23668	4.764	ug/L	97
23) 1,1-Dichloroethane	4.261	63	14175	4.828	ug/L	98
24) Halothane	4.313	117	7424	4.649	ug/L	99
25) Acrylonitrile	4.329	53	1482	3.497	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A06.D
 Acq On : 25 Sep 2020 9:39 am
 Operator : CHARLIE:JC
 Sample : I8260STD4PPB
 Misc : WG1415936,ICAL
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 29 13:43:51 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 13:36:59 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\200925\VC200925A08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.475	59	23686	4.675	ug/L	97
27) Vinyl acetate	4.496	43	16505M1	4.405	ug/L	
28) cis-1,2-Dichloroethene	4.785	96	10374	4.757	ug/L	97
29) 2,2-Dichloropropane	4.879	77	12561	4.850	ug/L	97
30) Bromochloromethane	4.974	128	5537	4.726	ug/L	92
31) Cyclohexane	4.974	56	12138	4.708	ug/L	99
32) Chloroform	5.042	83	16528	4.876	ug/L	99
33) Ethyl acetate	5.162	43	7040M1	4.742	ug/L	
34) Carbon tetrachloride	5.183	117	13400	4.580	ug/L	98
35) Tetrahydrofuran	5.204	42	2104M1	4.630	ug/L	
37) 1,1,1-Trichloroethane	5.246	97	14138	4.767	ug/L	97
39) 2-Butanone	5.356	43	3363	5.643	ug/L	95
40) 1,1-Dichloropropene	5.367	75	11376	4.580	ug/L	98
41) Benzene	5.613	78	37320	4.777	ug/L	98
42) tert-Amyl methyl ether	5.718	73	25556	4.546	ug/L	93
44) 1,2-Dichloroethane	5.823	62	11019	4.726	ug/L	99
47) Methyl cyclohexane	6.200	83	15585	4.596	ug/L	91
48) Trichloroethene	6.211	95	9377	4.516	ug/L	96
50) Dibromomethane	6.662	93	5529	4.306	ug/L	95
51) 1,2-Dichloropropane	6.751	63	8202	4.499	ug/L	97
53) 2-Chloroethyl vinyl ether	7.454	63	4033	4.220	ug/L	90
54) Bromodichloromethane	6.830	83	12727	4.426	ug/L	99
57) 1,4-Dioxane	7.034	88	4949	193.440	ug/L	91
58) cis-1,3-Dichloropropene	7.522	75	14037	4.382	ug/L	96
61) Toluene	7.779	92	24148	4.803	ug/L	97
62) 4-Methyl-2-pentanone	8.214	58	2682	4.530	ug/L	96
63) Tetrachloroethene	8.229	166	11458	4.799	ug/L	99
65) trans-1,3-Dichloropropene	8.271	75	11879	4.467	ug/L	97
67) Ethyl methacrylate	8.455	69	10287	4.387	ug/L	92
68) 1,1,2-Trichloroethane	8.450	83	6922	4.759	ug/L	97
69) Chlorodibromomethane	8.665	129	11044	4.737	ug/L	98
70) 1,3-Dichloropropane	8.775	76	13284	4.757	ug/L	100
71) 1,2-Dibromoethane	8.943	107	8325	4.681	ug/L	96
72) 2-Hexanone	9.220	43	4405	4.443	ug/L	# 94
73) Chlorobenzene	9.587	112	29946	4.702	ug/L	97
74) Ethylbenzene	9.624	91	44897	4.397	ug/L	99
75) 1,1,1,2-Tetrachloroethane	9.666	131	10931	4.508	ug/L	99
76) p/m Xylene	9.808	106	37064	8.155	ug/L	98
77) o Xylene	10.348	106	36244	8.234	ug/L	94
78) Styrene	10.416	104	58956	7.015	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A06.D
 Acq On : 25 Sep 2020 9:39 am
 Operator : CHARLIE:JC
 Sample : I8260STD4PPB
 Misc : WG1415936,ICAL
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 29 13:43:51 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 13:36:59 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\200925\VC200925A08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.437	173	7105	4.287	ug/L	95
82)	Isopropylbenzene	10.725	105	46357	5.020	ug/L	99
84)	Bromobenzene	11.166	156	12829	5.292	ug/L	96
85)	n-Propylbenzene	11.202	91	54642	4.949	ug/L	97
86)	1,4-Dichlorobutane	11.223	55	10739	5.028	ug/L	97
87)	1,1,2,2-Tetrachloroethane	11.291	83	11074	5.276	ug/L	99
88)	4-Ethyltoluene	11.323	105	46529	4.829	ug/L	98
89)	2-Chlorotoluene	11.370	91	30362	4.637	ug/L	92
90)	1,3,5-Trimethylbenzene	11.422	105	40223	4.511	ug/L	98
91)	1,2,3-Trichloropropane	11.433	75	8263	4.725	ug/L	98
92)	trans-1,4-Dichloro-2-b...	11.480	53	2146	4.406	ug/L	97
93)	4-Chlorotoluene	11.554	91	31956	4.641	ug/L	95
94)	tert-Butylbenzene	11.758	119	34652	4.662	ug/L	97
97)	1,2,4-Trimethylbenzene	11.842	105	38553	4.395	ug/L	98
98)	sec-Butylbenzene	11.947	105	51948	4.441	ug/L	97
99)	p-Isopropyltoluene	12.104	119	45170	4.359	ug/L	97
100)	1,3-Dichlorobenzene	12.178	146	24401	4.326	ug/L	97
101)	1,4-Dichlorobenzene	12.267	146	26392	4.719	ug/L	99
102)	p-Diethylbenzene	12.476	119	26701	4.473	ug/L	95
103)	n-Butylbenzene	12.534	91	37560	4.234	ug/L	97
104)	1,2-Dichlorobenzene	12.686	146	23120	4.394	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.263	119	40364	4.404	ug/L	98
106)	1,2-Dibromo-3-chloropr...	13.462	155	1888	4.647	ug/L	93
107)	1,3,5-Trichlorobenzene	13.499	180	16603	4.749	ug/L	99
108)	Hexachlorobutadiene	14.065	225	6851	5.175	ug/L	99
109)	1,2,4-Trichlorobenzene	14.091	180	14532	4.968	ug/L	97
110)	Naphthalene	14.380	128	33753	4.806	ug/L	100
111)	1,2,3-Trichlorobenzene	14.553	180	13474	4.960	ug/L	98

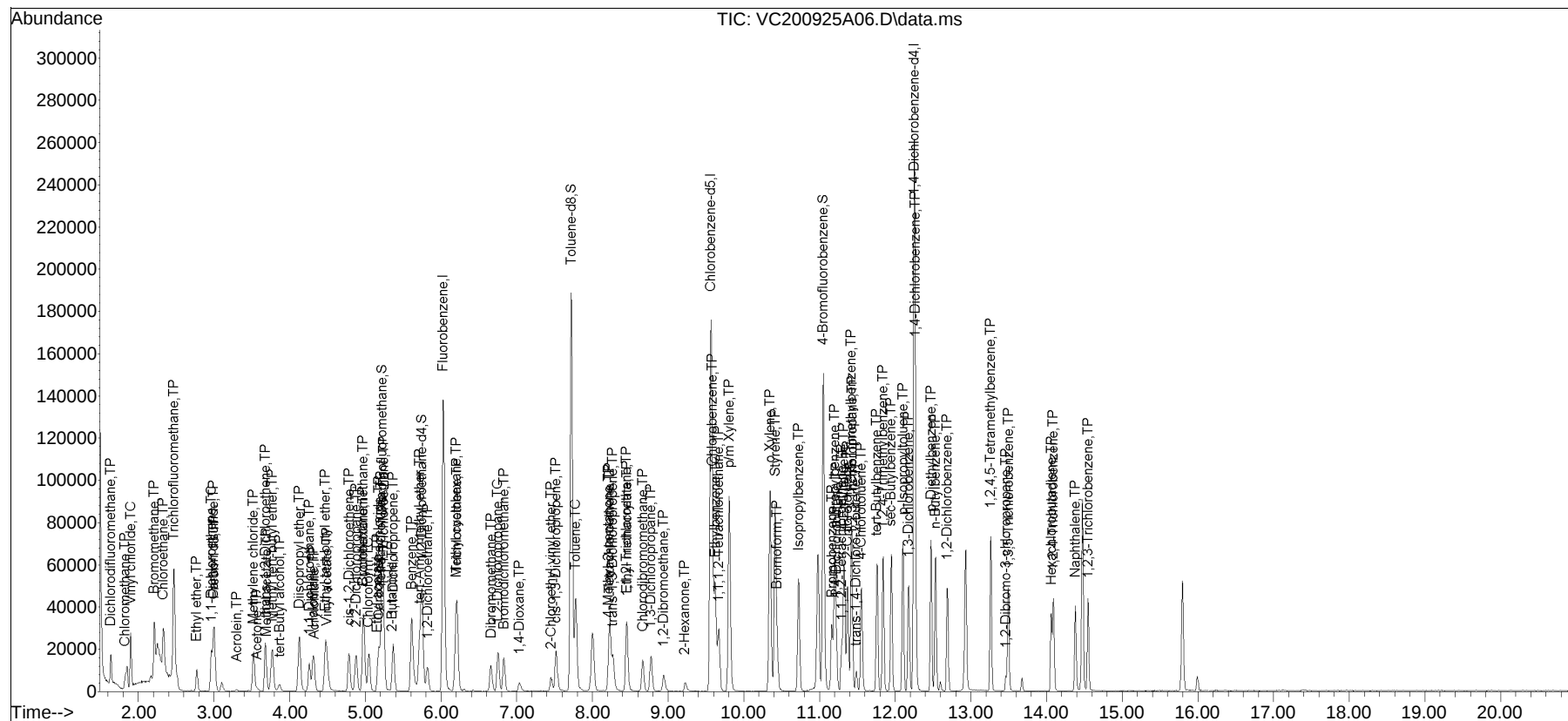
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A06.D
 Acq On : 25 Sep 2020 9:39 am
 Operator : CHARLIE:JC
 Sample : I8260STD4PPB
 Misc : WG1415936,ICAL
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 29 13:43:51 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 13:36:59 2020
 Response via : Initial Calibration

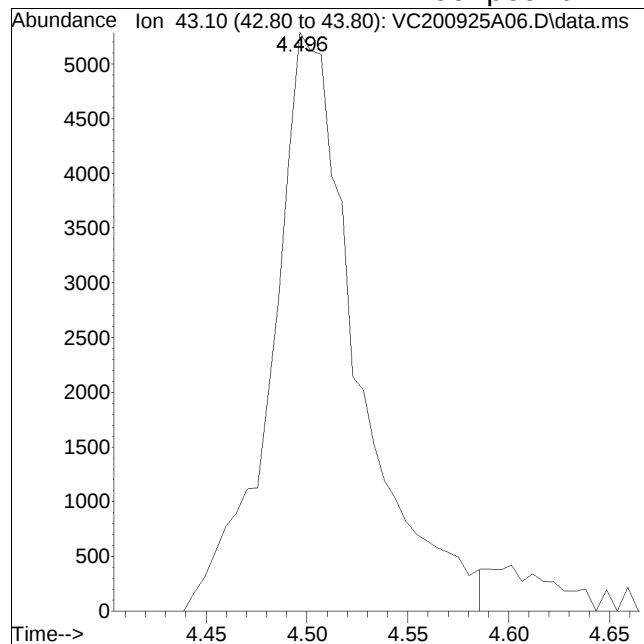
Sub List : 8260-CurveSoil - Megamix plus Diox25\VC200925A08.D•



Manual Integration Report

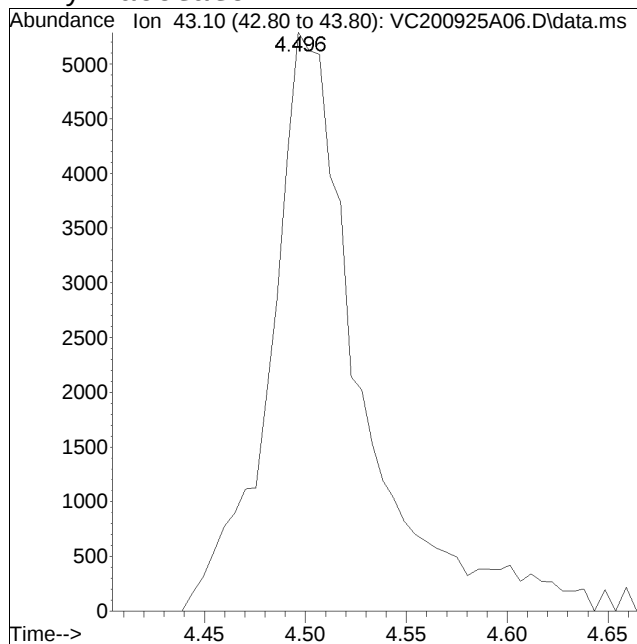
Data Path : I:\VOLATILES\Charlie\2020\QMethod : C_200925A_8260.m
Data File : VC200925A06.D Operator : CHARLIE:JC
Date Inj'd : 9/25/2020 9:39 am Instrument : Charlie
Sample : I8260STD4PPB Quant Date : 9/29/2020 1:38 pm

Compound #27: Vinyl acetate



Original Peak Response = 15596

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

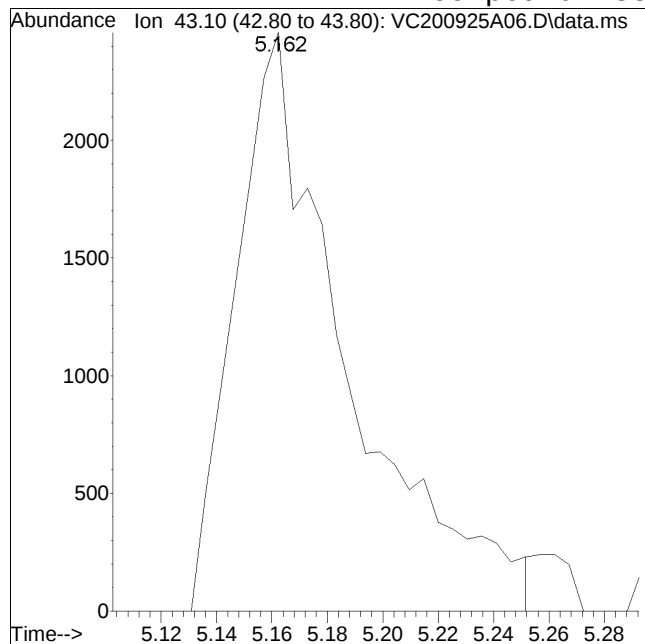


Manual Peak Response = 16505 M1

Manual Integration Report

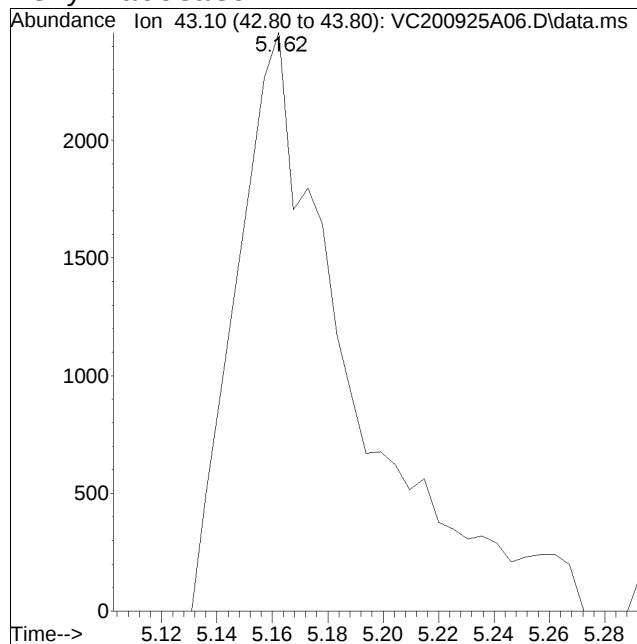
Data Path : I:\VOLATILES\Charlie\2020\QMethod : C_200925A_8260.m
Data File : VC200925A06.D Operator : CHARLIE:JC
Date Inj'd : 9/25/2020 9:39 am Instrument : Charlie
Sample : I8260STDL4PPB Quant Date : 9/29/2020 1:38 pm

Compound #33: Ethyl acetate



Original Peak Response = 6826

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

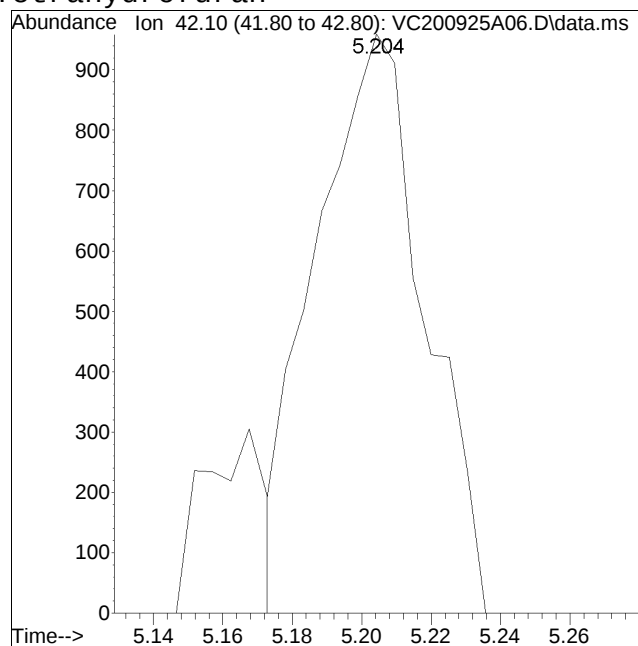
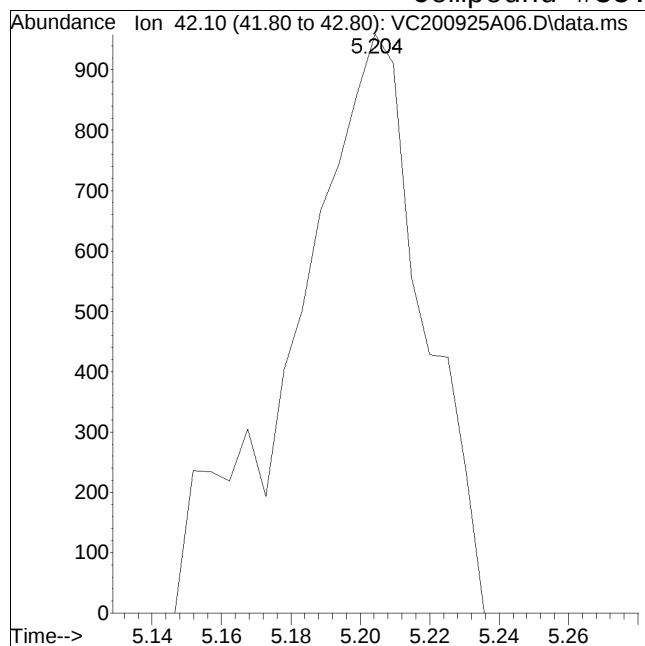


Manual Peak Response = 7040 M1

Manual Integration Report

Data Path : I:\VOLATILES\Charlie\2020\QMethod : C_200925A_8260.m
Data File : VC200925A06.D Operator : CHARLIE:JC
Date Inj'd : 9/25/2020 9:39 am Instrument : Charlie
Sample : I8260STDL4PPB Quant Date : 9/29/2020 1:38 pm

Compound #35: Tetrahydrofuran



Original Peak Response = 2477

Manual Peak Response = 2104 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A07.D
 Acq On : 25 Sep 2020 10:05 am
 Operator : CHARLIE:JC
 Sample : I8260STD120PPB
 Misc : WG1415936,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 29 13:44:21 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 13:36:59 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\200925\VC200925A08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.033	96	165694	20.000	ug/L	0.00
Standard Area 1 = 167207			Recovery	=	99.10%	
59) Chlorobenzene-d5	9.566	117	133208	20.000	ug/L	0.00
Standard Area 1 = 143890			Recovery	=	92.58%	
79) 1,4-Dichlorobenzene-d4	12.251	152	90425	20.000	ug/L	0.00
Standard Area 1 = 107069			Recovery	=	84.45%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.225	113	44432	19.579	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	97.89%	
43) 1,2-Dichloroethane-d4	5.749	65	34932	19.148	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	95.74%	
60) Toluene-d8	7.721	98	164487	20.758	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	103.79%	
83) 4-Bromofluorobenzene	11.055	95	59161	21.013	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	105.07%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.634	85	45959	21.068	ug/L	98
3) Chloromethane	1.828	50	31735	21.980	ug/L	98
4) Vinyl chloride	1.901	62	77649	21.156	ug/L	100
5) Bromomethane	2.210	94	57693	22.155	ug/L	99
6) Chloroethane	2.331	64	76469	20.527	ug/L	100
7) Trichlorofluoromethane	2.467	101	186539	20.627	ug/L	99
8) Ethyl ether	2.771	74	22025	21.734	ug/L	91
10) 1,1-Dichloroethene	2.965	96	36325	21.007	ug/L	96
11) Carbon disulfide	2.992	76	89309	21.142	ug/L	99
12) Freon-113	2.997	101	37805	20.897	ug/L	84
14) Acrolein	3.290	56	4512	20.647	ug/L	86
15) Methylene chloride	3.521	84	44180	21.775	ug/L	98
17) Acetone	3.563	43	9138	23.677	ug/L	99
18) trans-1,2-Dichloroethene	3.678	96	42147	21.024	ug/L	94
19) Methyl acetate	3.678	43	20732	21.402	ug/L	99
20) Methyl tert-butyl ether	3.768	73	117011	21.793	ug/L	97
21) tert-Butyl alcohol	3.862	59	21665	110.321	ug/L	95
22) Diisopropyl ether	4.129	45	112803	21.605	ug/L	99
23) 1,1-Dichloroethane	4.260	63	66068	21.414	ug/L	100
24) Halothane	4.313	117	34590	20.610	ug/L	99
25) Acrylonitrile	4.313	53	9525	21.386	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A07.D
 Acq On : 25 Sep 2020 10:05 am
 Operator : CHARLIE:JC
 Sample : I8260STD120PPB
 Misc : WG1415936,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 29 13:44:21 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 13:36:59 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\200925\VC200925A08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.481	59	115301	21.656	ug/L	94
27) Vinyl acetate	4.491	43	82824	21.035	ug/L	98
28) cis-1,2-Dichloroethene	4.779	96	48900	21.337	ug/L	96
29) 2,2-Dichloropropane	4.874	77	57431	21.102	ug/L	97
30) Bromochloromethane	4.973	128	25839	20.988	ug/L	97
31) Cyclohexane	4.973	56	56078	20.699	ug/L	95
32) Chloroform	5.047	83	76386	21.446	ug/L	99
33) Ethyl acetate	5.152	43	33643	21.566	ug/L	98
34) Carbon tetrachloride	5.178	117	61360	19.957	ug/L	98
35) Tetrahydrofuran	5.199	42	10565	22.125	ug/L	98
37) 1,1,1-Trichloroethane	5.246	97	65513	21.019	ug/L	97
39) 2-Butanone	5.340	43	15824	25.266	ug/L	98
40) 1,1-Dichloropropene	5.367	75	53628	20.545	ug/L	97
41) Benzene	5.613	78	170543	20.773	ug/L	99
42) tert-Amyl methyl ether	5.718	73	124904	21.140	ug/L	91
44) 1,2-Dichloroethane	5.818	62	52374	21.376	ug/L	98
47) Methyl cyclohexane	6.200	83	73905	20.739	ug/L	90
48) Trichloroethene	6.211	95	43382	19.880	ug/L	92
50) Dibromomethane	6.656	93	28097	20.821	ug/L	96
51) 1,2-Dichloropropane	6.751	63	40178	20.973	ug/L	98
53) 2-Chloroethyl vinyl ether	7.448	63	22674	22.575	ug/L	94
54) Bromodichloromethane	6.830	83	63212	20.916	ug/L	99
57) 1,4-Dioxane	7.034	88	24241	901.605	ug/L	95
58) cis-1,3-Dichloropropene	7.516	75	69328	20.595	ug/L	98
61) Toluene	7.784	92	114971	21.547	ug/L	100
62) 4-Methyl-2-pentanone	8.214	58	13885	22.098	ug/L	96
63) Tetrachloroethene	8.235	166	52982	20.907	ug/L	99
65) trans-1,3-Dichloropropene	8.271	75	61277	21.712	ug/L	99
67) Ethyl methacrylate	8.450	69	53738	21.592	ug/L	94
68) 1,1,2-Trichloroethane	8.450	83	34468	22.325	ug/L	98
69) Chlorodibromomethane	8.665	129	54224	21.913	ug/L	99
70) 1,3-Dichloropropane	8.775	76	66600	22.470	ug/L	99
71) 1,2-Dibromoethane	8.942	107	42086	22.298	ug/L	100
72) 2-Hexanone	9.226	43	23971	22.782	ug/L	98
73) Chlorobenzene	9.587	112	145100	21.466	ug/L	96
74) Ethylbenzene	9.624	91	222948	20.573	ug/L	98
75) 1,1,1,2-Tetrachloroethane	9.671	131	53690	20.862	ug/L	98
76) p/m Xylene	9.808	106	193882	40.190	ug/L	95
77) o Xylene	10.348	106	185319	39.665	ug/L	98
78) Styrene	10.416	104	331981	37.215	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A07.D
 Acq On : 25 Sep 2020 10:05 am
 Operator : CHARLIE:JC
 Sample : I8260STD120PPB
 Misc : WG1415936,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 29 13:44:21 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 13:36:59 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\200925\VC200925A08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.442	173	41584	20.258	ug/L	97
82)	Isopropylbenzene	10.725	105	249109	21.779	ug/L	100
84)	Bromobenzene	11.160	156	69184	23.044	ug/L	98
85)	n-Propylbenzene	11.202	91	288398	21.089	ug/L	97
86)	1,4-Dichlorobutane	11.223	55	58152	21.984	ug/L	99
87)	1,1,2,2-Tetrachloroethane	11.297	83	59423	22.860	ug/L	99
88)	4-Ethyltoluene	11.328	105	251364	21.065	ug/L	99
89)	2-Chlorotoluene	11.370	91	170694	21.049	ug/L	95
90)	1,3,5-Trimethylbenzene	11.422	105	221991	20.101	ug/L	98
91)	1,2,3-Trichloropropane	11.428	75	45318	20.925	ug/L	96
92)	trans-1,4-Dichloro-2-b...	11.480	53	12938	21.449	ug/L	99
93)	4-Chlorotoluene	11.553	91	174323	20.440	ug/L	94
94)	tert-Butylbenzene	11.763	119	192173	20.875	ug/L	96
97)	1,2,4-Trimethylbenzene	11.842	105	219258	20.183	ug/L	98
98)	sec-Butylbenzene	11.952	105	296269	20.452	ug/L	97
99)	p-Isopropyltoluene	12.104	119	256079	19.953	ug/L	98
100)	1,3-Dichlorobenzene	12.177	146	142126	20.346	ug/L	98
101)	1,4-Dichlorobenzene	12.267	146	145952	21.072	ug/L	98
102)	p-Diethylbenzene	12.476	119	151739	20.525	ug/L	97
103)	n-Butylbenzene	12.534	91	216918	19.744	ug/L	97
104)	1,2-Dichlorobenzene	12.691	146	134909	20.703	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.263	119	229720	20.238	ug/L	97
106)	1,2-Dibromo-3-chloropr...	13.462	155	11166	22.191	ug/L	97
107)	1,3,5-Trichlorobenzene	13.493	180	91009	21.020	ug/L	99
108)	Hexachlorobutadiene	14.065	225	35951	21.928	ug/L	97
109)	1,2,4-Trichlorobenzene	14.091	180	80037	22.094	ug/L	98
110)	Naphthalene	14.379	128	191155	21.977	ug/L	100
111)	1,2,3-Trichlorobenzene	14.547	180	72112	21.433	ug/L	98

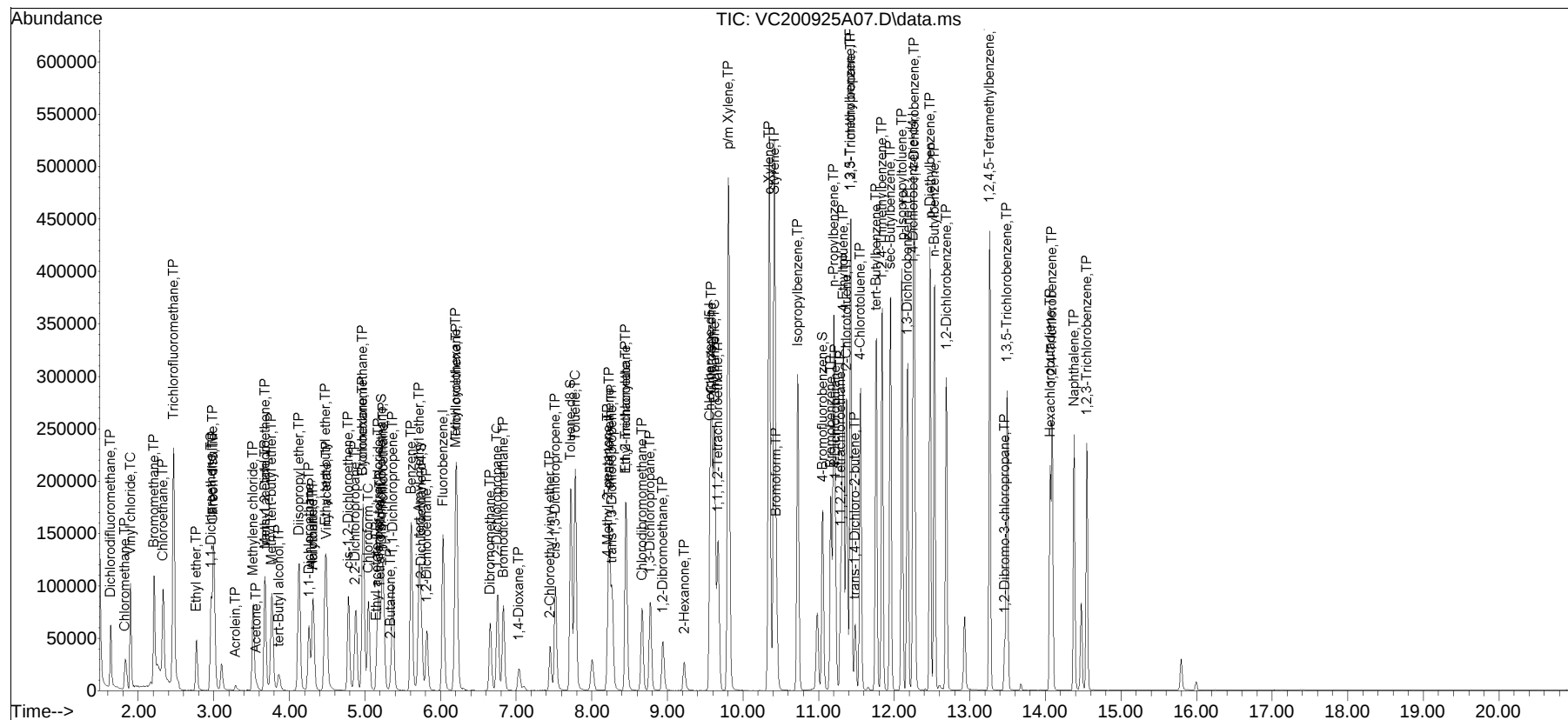
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A07.D
 Acq On : 25 Sep 2020 10:05 am
 Operator : CHARLIE:JC
 Sample : I8260STDL20PPB
 Misc : WG1415936,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 29 13:44:21 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 13:36:59 2020
 Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox25\VC200925A08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\Charlie\2020\QMethod	: C_200925A_8260.m
Data File	: VC200925A07.D	Operator : CHARLIE:JC
Date Inj'd	: 9/25/2020 10:05 am	Instrument : Charlie
Sample	: I8260STDL20PPB	Quant Date : 9/29/2020 1:38 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A08.D
 Acq On : 25 Sep 2020 10:33 am
 Operator : CHARLIE:JC
 Sample : I8260STD40PPB
 Misc : WG1415936,ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 29 13:37:23 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 13:37:02 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\200925\VC200925A08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.032	96	167207	20.000	ug/L	0.00
Standard Area 1 = 167207			Recovery	=	100.00%	
59) Chlorobenzene-d5	9.572	117	143890	20.000	ug/L	0.00
Standard Area 1 = 143890			Recovery	=	100.00%	
79) 1,4-Dichlorobenzene-d4	12.256	152	107069	20.000	ug/L	0.00
Standard Area 1 = 107069			Recovery	=	100.00%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.225	113	45801	20.000	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	100.00%	
43) 1,2-Dichloroethane-d4	5.755	65	36820	20.000	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	100.00%	
60) Toluene-d8	7.726	98	171192	20.000	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	100.00%	
83) 4-Bromofluorobenzene	11.055	95	66672	20.000	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	100.00%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.639	85	88057	40.000	ug/L	100
3) Chloromethane	1.828	50	58281	40.000	ug/L	99
4) Vinyl chloride	1.901	62	148154	40.000	ug/L	98
5) Bromomethane	2.210	94	105112	40.000	ug/L	100
6) Chloroethane	2.326	64	150373	40.000	ug/L	99
7) Trichlorofluoromethane	2.467	101	365039	40.000	ug/L	100
8) Ethyl ether	2.771	74	40905	40.000	ug/L	91
10) 1,1-Dichloroethene	2.965	96	69799	40.000	ug/L	95
11) Carbon disulfide	2.997	76	170514	40.000	ug/L	100
12) Freon-113	3.002	101	73026	40.000	ug/L	83
14) Acrolein	3.290	56	8821	40.000	ug/L	97
15) Methylene chloride	3.521	84	81898	40.000	ug/L	98
17) Acetone	3.568	43	15579	40.000	ug/L	98
18) trans-1,2-Dichloroethene	3.678	96	80921	40.000	ug/L	94
19) Methyl acetate	3.684	43	39102	40.000	ug/L	98
20) Methyl tert-butyl ether	3.773	73	216731	40.000	ug/L	96
21) tert-Butyl alcohol	3.862	59	39635	200.000	ug/L	94
22) Diisopropyl ether	4.129	45	210758	40.000	ug/L	100
23) 1,1-Dichloroethane	4.260	63	124536	40.000	ug/L	100
24) Halothane	4.313	117	67745	40.000	ug/L	100
25) Acrylonitrile	4.308	53	17978	40.000	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A08.D
 Acq On : 25 Sep 2020 10:33 am
 Operator : CHARLIE:JC
 Sample : I8260STD40PPB
 Misc : WG1415936,ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 29 13:37:23 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 13:37:02 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\200925\VC200925A08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.475	59	214914	40.000	ug/L	92
27) Vinyl acetate	4.491	43	158932	40.000	ug/L	98
28) cis-1,2-Dichloroethene	4.779	96	92510	40.000	ug/L	96
29) 2,2-Dichloropropane	4.879	77	109860	40.000	ug/L	96
30) Bromochloromethane	4.973	128	49696	40.000	ug/L	95
31) Cyclohexane	4.979	56	109359	40.000	ug/L	94
32) Chloroform	5.047	83	143775	40.000	ug/L	99
33) Ethyl acetate	5.157	43	62971	40.000	ug/L	98
34) Carbon tetrachloride	5.183	117	124110	40.000	ug/L	100
35) Tetrahydrofuran	5.194	42	19275	40.000	ug/L	98
37) 1,1,1-Trichloroethane	5.246	97	125812	40.000	ug/L	97
39) 2-Butanone	5.340	43	25281	40.000	ug/L	89
40) 1,1-Dichloropropene	5.372	75	105365	40.000	ug/L	97
41) Benzene	5.613	78	331385	40.000	ug/L	98
42) tert-Amyl methyl ether	5.718	73	238490	40.000	ug/L	91
44) 1,2-Dichloroethane	5.817	62	98898	40.000	ug/L	98
47) Methyl cyclohexane	6.200	83	143844	40.000	ug/L	92
48) Trichloroethene	6.216	95	88083	40.000	ug/L	94
50) Dibromomethane	6.656	93	54471	40.000	ug/L	97
51) 1,2-Dichloropropane	6.756	63	77329	40.000	ug/L	98
53) 2-Chloroethyl vinyl ether	7.448	63	40542	40.000	ug/L	94
54) Bromodichloromethane	6.835	83	121992	40.000	ug/L	99
57) 1,4-Dioxane	7.039	88	54264	2000.000	ug/L	97
58) cis-1,3-Dichloropropene	7.521	75	135879	40.000	ug/L	98
61) Toluene	7.784	92	230545	40.000	ug/L	100
62) 4-Methyl-2-pentanone	8.214	58	27149	40.000	ug/L	93
63) Tetrachloroethene	8.235	166	109498	40.000	ug/L	98
65) trans-1,3-Dichloropropene	8.271	75	121946	40.000	ug/L	100
67) Ethyl methacrylate	8.455	69	107536	40.000	ug/L	91
68) 1,1,2-Trichloroethane	8.455	83	66708	40.000	ug/L	96
69) Chlorodibromomethane	8.670	129	106917	40.000	ug/L	100
70) 1,3-Dichloropropane	8.775	76	128064	40.000	ug/L	99
71) 1,2-Dibromoethane	8.942	107	81553	40.000	ug/L	100
72) 2-Hexanone	9.220	43	45463	40.000	ug/L	97
73) Chlorobenzene	9.592	112	292063	40.000	ug/L	97
74) Ethylbenzene	9.624	91	468227	40.000	ug/L	98
75) 1,1,1,2-Tetrachloroethane	9.671	131	111197	40.000	ug/L	99
76) p/m Xylene	9.813	106	416874	80.000	ug/L	95
77) o Xylene	10.353	106	403736	80.000	ug/L	96
78) Styrene	10.416	104	770885	80.000	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A08.D
 Acq On : 25 Sep 2020 10:33 am
 Operator : CHARLIE:JC
 Sample : I8260STD40PPB
 Misc : WG1415936,ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 29 13:37:23 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 13:37:02 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\200925\VC200925A08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.447	173	97221	40.000	ug/L	97
82)	Isopropylbenzene	10.730	105	541735	40.000	ug/L	99
84)	Bromobenzene	11.165	156	142193	40.000	ug/L	97
85)	n-Propylbenzene	11.202	91	647705	40.000	ug/L	98
86)	1,4-Dichlorobutane	11.223	55	125283	40.000	ug/L	97
87)	1,1,2,2-Tetrachloroethane	11.296	83	123114	40.000	ug/L	99
88)	4-Ethyltoluene	11.328	105	565164	40.000	ug/L	99
89)	2-Chlorotoluene	11.375	91	384088	40.000	ug/L	96
90)	1,3,5-Trimethylbenzene	11.428	105	523054	39.999	ug/L	97
91)	1,2,3-Trichloropropane	11.433	75	102666	40.035	ug/L	96
92)	trans-1,4-Dichloro-2-b...	11.485	53	28569	40.000	ug/L	97
93)	4-Chlorotoluene	11.553	91	403934	40.000	ug/L	96
94)	tert-Butylbenzene	11.763	119	436009	40.000	ug/L	96
97)	1,2,4-Trimethylbenzene	11.842	105	514518	40.000	ug/L	98
98)	sec-Butylbenzene	11.952	105	686110	40.000	ug/L	97
99)	p-Isopropyltoluene	12.104	119	607868	40.000	ug/L	99
100)	1,3-Dichlorobenzene	12.177	146	330849	40.000	ug/L	98
101)	1,4-Dichlorobenzene	12.272	146	328056	40.000	ug/L	99
102)	p-Diethylbenzene	12.476	119	350141	40.000	ug/L	98
103)	n-Butylbenzene	12.534	91	520361	40.000	ug/L	98
104)	1,2-Dichlorobenzene	12.691	146	308634	40.000	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.268	119	537601	40.000	ug/L	98
106)	1,2-Dibromo-3-chloropr...	13.467	155	23832	40.000	ug/L	100
107)	1,3,5-Trichlorobenzene	13.493	180	205058	40.000	ug/L	99
108)	Hexachlorobutadiene	14.065	225	77650	40.000	ug/L	99
109)	1,2,4-Trichlorobenzene	14.091	180	171575	40.000	ug/L	99
110)	Naphthalene	14.379	128	411961	40.000	ug/L	100
111)	1,2,3-Trichlorobenzene	14.547	180	159355	40.000	ug/L	99

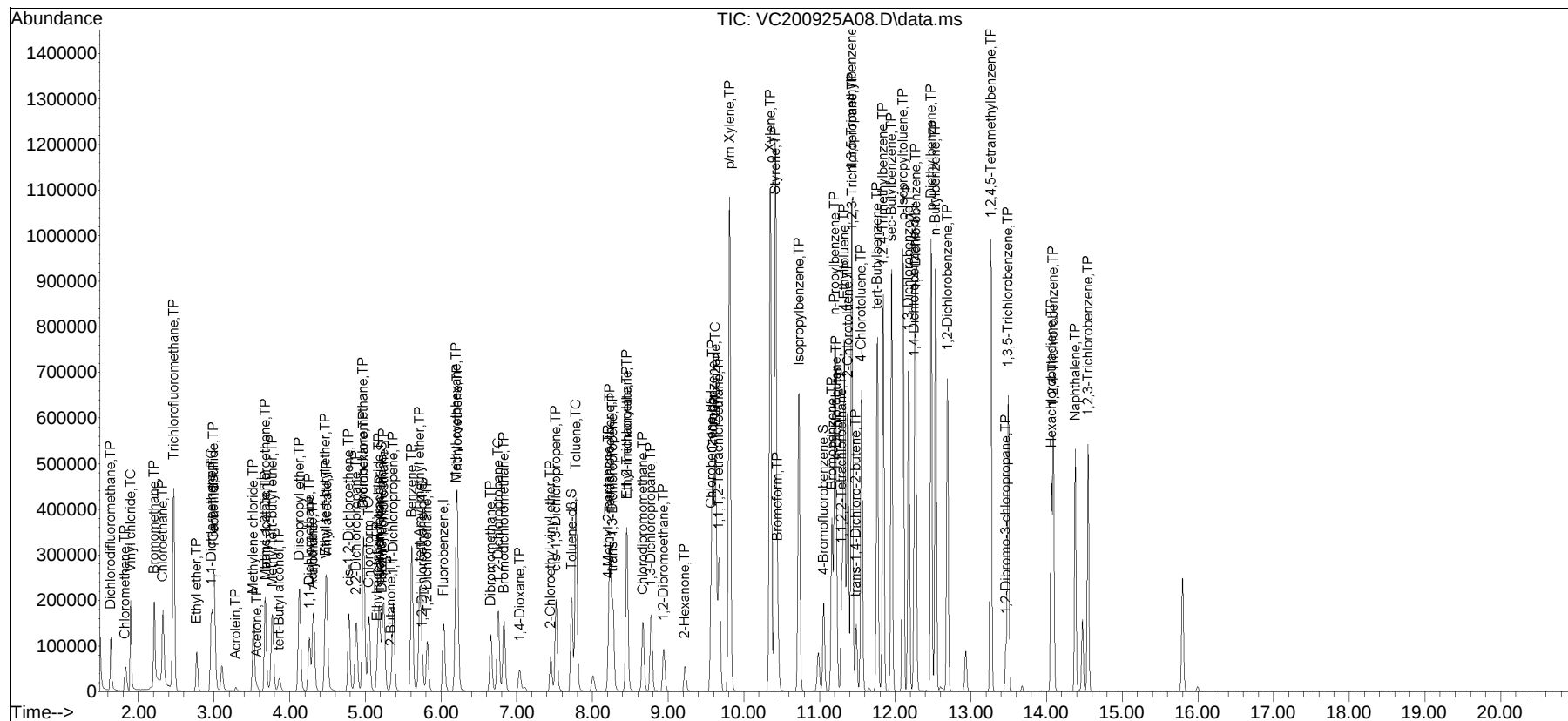
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A08.D
 Acq On : 25 Sep 2020 10:33 am
 Operator : CHARLIE:JC
 Sample : I8260STD40PPB
 Misc : WG1415936,ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 29 13:37:23 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 13:37:02 2020
 Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox25\VC200925A08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\Charlie\2020\QMethod	: C_200925A_8260.m
Data File	: VC200925A08.D	Operator : CHARLIE:JC
Date Inj'd	: 9/25/2020 10:33 am	Instrument : Charlie
Sample	: I8260STDL40PPB	Quant Date : 9/29/2020 1:37 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A09.D
 Acq On : 25 Sep 2020 11:00 am
 Operator : CHARLIE:JC
 Sample : I8260STD100PPB
 Misc : WG1415936,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 29 13:45:07 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 13:36:59 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\200925\VC200925A08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.033	96	185704	20.000	ug/L	0.00
Standard Area 1 = 167207			Recovery	=	111.06%	
59) Chlorobenzene-d5	9.566	117	173038	20.000	ug/L	0.00
Standard Area 1 = 143890			Recovery	=	120.26%	
79) 1,4-Dichlorobenzene-d4	12.256	152	152978	20.000	ug/L	0.00
Standard Area 1 = 107069			Recovery	=	142.88%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.225	113	50585	19.889	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	99.44%	
43) 1,2-Dichloroethane-d4	5.749	65	42962	21.012	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	105.06%	
60) Toluene-d8	7.726	98	195190	18.962	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	94.81%	
83) 4-Bromofluorobenzene	11.055	95	87824	18.439	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	92.20%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.639	85	250354	102.396	ug/L	100
3) Chloromethane	1.833	50	160911	99.438	ug/L	99
4) Vinyl chloride	1.901	62	377072	91.665	ug/L	97
5) Bromomethane	2.210	94	287345	98.457	ug/L	100
6) Chloroethane	2.315	64	408540	97.849	ug/L	98
7) Trichlorofluoromethane	2.462	101	981798	96.867	ug/L	100
8) Ethyl ether	2.771	74	118951	104.733	ug/L	90
10) 1,1-Dichloroethene	2.965	96	199614	102.999	ug/L	96
11) Carbon disulfide	2.992	76	498964	105.391	ug/L	100
12) Freon-113	3.002	101	211268	104.196	ug/L	84
14) Acrolein	3.285	56	25671	104.814	ug/L	94
15) Methylene chloride	3.521	84	235997	103.783	ug/L	98
17) Acetone	3.563	43	42265	97.709	ug/L	99
18) trans-1,2-Dichloroethene	3.678	96	240125	106.873	ug/L	94
19) Methyl acetate	3.678	43	114785	105.725	ug/L	96
20) Methyl tert-butyl ether	3.768	73	647967	107.678	ug/L	95
21) tert-Butyl alcohol	3.862	59	118263	537.320	ug/L	89
22) Diisopropyl ether	4.129	45	636208	108.720	ug/L	98
23) 1,1-Dichloroethane	4.260	63	370503	107.149	ug/L	99
24) Halothane	4.313	117	195779	104.084	ug/L	100
25) Acrylonitrile	4.302	53	54565	109.312	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A09.D
 Acq On : 25 Sep 2020 11:00 am
 Operator : CHARLIE:JC
 Sample : I8260STD100PPB
 Misc : WG1415936,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 29 13:45:07 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 13:36:59 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\200925\VC200925A08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.481	59	671238	112.488	ug/L	91
27) Vinyl acetate	4.491	43	509963	115.563	ug/L	96
28) cis-1,2-Dichloroethene	4.779	96	281531	109.605	ug/L	95
29) 2,2-Dichloropropane	4.879	77	330999	108.513	ug/L	97
30) Bromochloromethane	4.973	128	150125	108.799	ug/L	93
31) Cyclohexane	4.973	56	334273	110.088	ug/L	93
32) Chloroform	5.047	83	427386	107.061	ug/L	99
33) Ethyl acetate	5.152	43	188902	108.041	ug/L	99
34) Carbon tetrachloride	5.183	117	370351	107.473	ug/L	99
35) Tetrahydrofuran	5.194	42	54686	102.182	ug/L	95
37) 1,1,1-Trichloroethane	5.246	97	362307	103.716	ug/L	96
39) 2-Butanone	5.335	43	74713	106.438	ug/L #	85
40) 1,1-Dichloropropene	5.367	75	310574	106.160	ug/L	97
41) Benzene	5.613	78	1022157	111.091	ug/L	99
42) tert-Amyl methyl ether	5.718	73	748161	112.984	ug/L	90
44) 1,2-Dichloroethane	5.818	62	291638	106.206	ug/L	98
47) Methyl cyclohexane	6.200	83	453376	113.517	ug/L	91
48) Trichloroethene	6.211	95	271135	110.863	ug/L	94
50) Dibromomethane	6.656	93	165763	109.601	ug/L	96
51) 1,2-Dichloropropane	6.756	63	232683	108.372	ug/L	98
53) 2-Chloroethyl vinyl ether	7.448	63	139196	123.656	ug/L #	94
54) Bromodichloromethane	6.829	83	364927	107.738	ug/L	99
57) 1,4-Dioxane	7.034	88	142637	4733.513	ug/L	94
58) cis-1,3-Dichloropropene	7.522	75	420716	111.514	ug/L	98
61) Toluene	7.784	92	743339	107.246	ug/L	99
62) 4-Methyl-2-pentanone	8.214	58	86476	105.948	ug/L	91
63) Tetrachloroethene	8.235	166	338503	102.827	ug/L	98
65) trans-1,3-Dichloropropene	8.271	75	379714	103.571	ug/L	99
67) Ethyl methacrylate	8.450	69	354117	109.532	ug/L	91
68) 1,1,2-Trichloroethane	8.455	83	215183	107.295	ug/L	97
69) Chlorodibromomethane	8.665	129	337839	105.102	ug/L	99
70) 1,3-Dichloropropane	8.775	76	392677	101.990	ug/L	99
71) 1,2-Dibromoethane	8.942	107	258837	105.569	ug/L	100
72) 2-Hexanone	9.220	43	143656	105.103	ug/L	97
73) Chlorobenzene	9.587	112	943944	107.503	ug/L	99
74) Ethylbenzene	9.624	91	1618760	114.994	ug/L	98
75) 1,1,1,2-Tetrachloroethane	9.671	131	372451	111.410	ug/L	99
76) p/m Xylene	9.807	106	1515867	241.900	ug/L	98
77) o Xylene	10.348	106	1549592	255.328	ug/L	96
78) Styrene	10.416	104	3066662	264.640	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A09.D
 Acq On : 25 Sep 2020 11:00 am
 Operator : CHARLIE:JC
 Sample : I8260STD100PPB
 Misc : WG1415936,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 29 13:45:07 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 13:36:59 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\200925\VC200925A08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.447	173	408977	117.770	ug/L	99
82)	Isopropylbenzene	10.725	105	2162693	111.764	ug/L	99
84)	Bromobenzene	11.165	156	531867	104.718	ug/L	99
85)	n-Propylbenzene	11.202	91	2500198	108.067	ug/L	96
86)	1,4-Dichlorobutane	11.223	55	459982	102.788	ug/L	97
87)	1,1,2,2-Tetrachloroethane	11.291	83	460996	104.830	ug/L	100
88)	4-Ethyltoluene	11.328	105	2136508	105.834	ug/L	98
89)	2-Chlorotoluene	11.375	91	1452723	105.888	ug/L	95
90)	1,3,5-Trimethylbenzene	11.428	105	1933097	103.465	ug/L	99
91)	1,2,3-Trichloropropane	11.433	75	361364	98.627	ug/L	91
92)	trans-1,4-Dichloro-2-b...	11.480	53	101554	99.517	ug/L #	86
93)	4-Chlorotoluene	11.553	91	1507994	104.516	ug/L	96
94)	tert-Butylbenzene	11.763	119	1645499	105.657	ug/L	97
97)	1,2,4-Trimethylbenzene	11.842	105	1952200	106.223	ug/L	98
98)	sec-Butylbenzene	11.952	105	2534886	103.433	ug/L	96
99)	p-Isopropyltoluene	12.104	119	2264868	104.311	ug/L	98
100)	1,3-Dichlorobenzene	12.177	146	1241917	105.089	ug/L	99
101)	1,4-Dichlorobenzene	12.272	146	1197045	102.154	ug/L	98
102)	p-Diethylbenzene	12.476	119	1301688	104.078	ug/L	98
103)	n-Butylbenzene	12.534	91	1843026	99.157	ug/L	98
104)	1,2-Dichlorobenzene	12.691	146	1133312	102.802	ug/L	99
105)	1,2,4,5-Tetramethylben...	13.263	119	2045608	106.526	ug/L	98
106)	1,2-Dibromo-3-chloropr...	13.462	155	92161	108.263	ug/L	100
107)	1,3,5-Trichlorobenzene	13.493	180	733853	100.191	ug/L	98
108)	Hexachlorobutadiene	14.065	225	272548	98.264	ug/L	99
109)	1,2,4-Trichlorobenzene	14.091	180	566983	92.515	ug/L	98
110)	Naphthalene	14.379	128	1551636	105.446	ug/L	100
111)	1,2,3-Trichlorobenzene	14.547	180	588450	103.381	ug/L	99

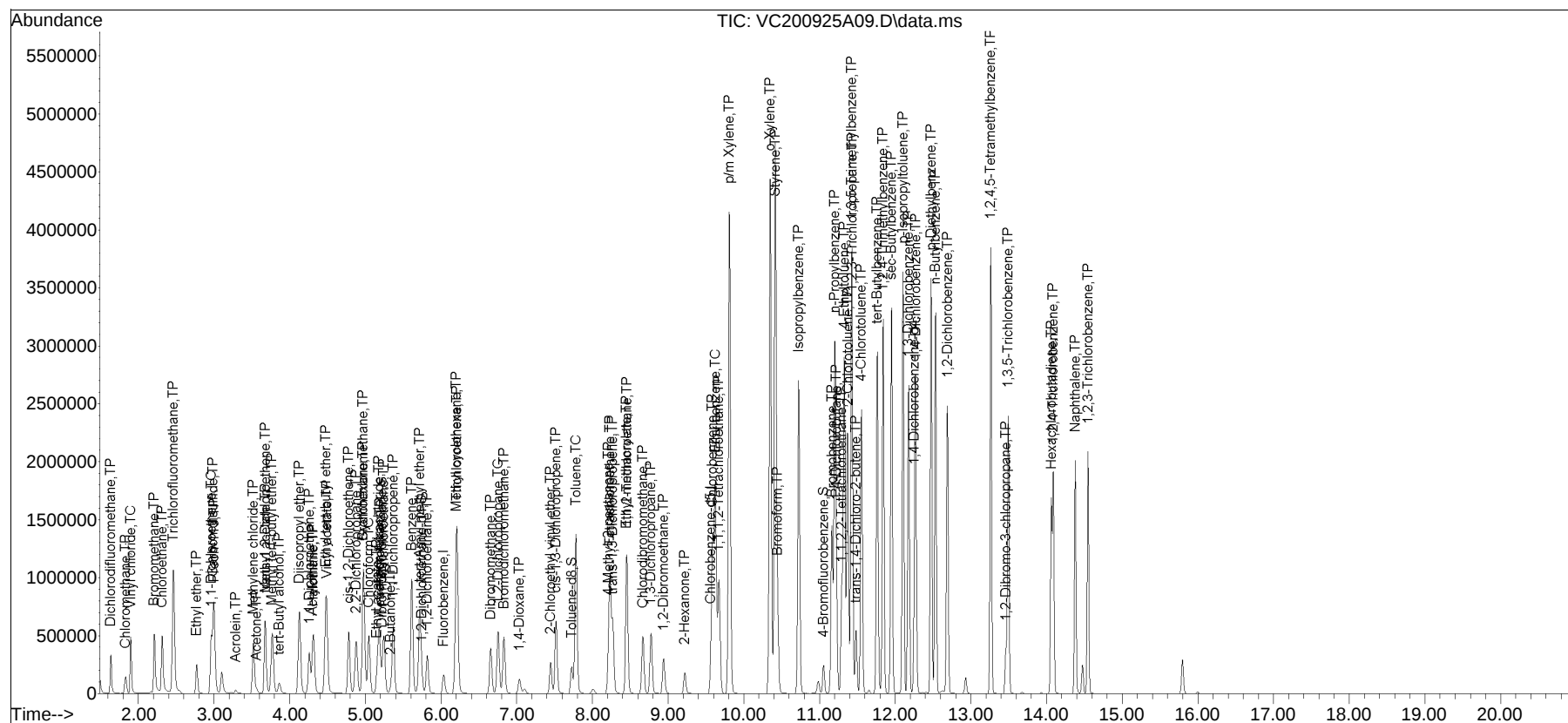
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path   : I:\VOLATILES\Charlie\2020\200925\  
Data File  : VC200925A09.D  
Acq On     : 25 Sep 2020   11:00 am  
Operator   : CHARLIE:JC  
Sample     : I8260STDL100PPB  
Misc       : WG1415936,ICAL  
ALS Vial   : 9      Sample Multiplier: 1
```

Quant Time: Sep 29 13:45:07 2020
Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 29 13:36:59 2020
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox25\VC200925A08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\Charlie\2020\QMethod	: C_200925A_8260.m
Data File	: VC200925A09.D	Operator : CHARLIE:JC
Date Inj'd	: 9/25/2020 11:00 am	Instrument : Charlie
Sample	: I8260STD100PPB	Quant Date : 9/29/2020 1:38 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A10.D
 Acq On : 25 Sep 2020 11:27 am
 Operator : CHARLIE:JC
 Sample : I8260STD200PPB
 Misc : WG1415936,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 29 13:45:41 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 13:36:59 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\200925\VC200925A08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.032	96	203929	20.000	ug/L	0.00
Standard Area 1 = 167207			Recovery	=	121.96%	
59) Chlorobenzene-d5	9.566	117	212723	20.000	ug/L	0.00
Standard Area 1 = 143890			Recovery	=	147.84%	
79) 1,4-Dichlorobenzene-d4	12.256	152	165417	20.000	ug/L	0.00
Standard Area 1 = 107069			Recovery	=	154.50%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.225	113	54430	19.488	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	97.44%	
43) 1,2-Dichloroethane-d4	5.749	65	53326	23.750	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	118.75%	
60) Toluene-d8	7.726	98	220178	17.399	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	87.00%	
83) 4-Bromofluorobenzene	11.050	95	109818	21.323	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	106.61%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.639	85	555657	206.956	ug/L	100
3) Chloromethane	1.827	50	365007	205.404	ug/L	99
4) Vinyl chloride	1.901	62	790117	174.910	ug/L	98
5) Bromomethane	2.210	94	704628	219.858	ug/L	100
6) Chloroethane	2.305	64	355621	77.563	ug/L	99
7) Trichlorofluoromethane	2.446	101	2211521	198.695	ug/L	100
8) Ethyl ether	2.771	74	282583	226.571	ug/L	89
10) 1,1-Dichloroethene	2.960	96	477189	224.221	ug/L	95
11) Carbon disulfide	2.986	76	1187641	228.434	ug/L	99
12) Freon-113	2.997	101	485572	218.078	ug/L	88
14) Acrolein	3.280	56	60542	225.099	ug/L	95
15) Methylene chloride	3.516	84	561328	224.791	ug/L	96
17) Acetone	3.563	43	95758	201.591	ug/L	97
18) trans-1,2-Dichloroethene	3.673	96	576196	233.531	ug/L	93
19) Methyl acetate	3.678	43	273156	229.112	ug/L	96
20) Methyl tert-butyl ether	3.767	73	1545029	233.804	ug/L	95
21) tert-Butyl alcohol	3.867	59	281593	1165.060	ug/L	88
22) Diisopropyl ether	4.129	45	1498309	233.159	ug/L	98
23) 1,1-Dichloroethane	4.255	63	856980	225.689	ug/L	99
24) Halothane	4.313	117	456898	221.196	ug/L	99
25) Acrylonitrile	4.302	53	125424	228.810	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A10.D
 Acq On : 25 Sep 2020 11:27 am
 Operator : CHARLIE:JC
 Sample : I8260STD200PPB
 Misc : WG1415936,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 29 13:45:41 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 13:36:59 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\200925\VC200925A08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.480	59	1679000	256.225	ug/L	90
27) Vinyl acetate	4.491	43	1285548	265.285	ug/L	95
28) cis-1,2-Dichloroethene	4.779	96	663285	235.151	ug/L	96
29) 2,2-Dichloropropane	4.879	77	779711	232.771	ug/L	96
30) Bromochloromethane	4.973	128	356532	235.295	ug/L	91
31) Cyclohexane	4.973	56	777307	233.117	ug/L	92
32) Chloroform	5.047	83	984923	224.675	ug/L	98
33) Ethyl acetate	5.146	43	424465	221.074	ug/L	98
34) Carbon tetrachloride	5.178	117	836530	221.060	ug/L	99
35) Tetrahydrofuran	5.194	42	118011	200.800	ug/L	92
37) 1,1,1-Trichloroethane	5.241	97	803746	209.523	ug/L	96
39) 2-Butanone	5.335	43	164085	212.868	ug/L #	84
40) 1,1-Dichloropropene	5.367	75	693729	215.938	ug/L	96
41) Benzene	5.613	78	2403866	237.910	ug/L	98
42) tert-Amyl methyl ether	5.718	73	1830036	251.666	ug/L	90
44) 1,2-Dichloroethane	5.817	62	691628	229.361	ug/L	98
47) Methyl cyclohexane	6.200	83	1081426	246.570	ug/L	89
48) Trichloroethene	6.211	95	662022	246.499	ug/L	96
50) Dibromomethane	6.651	93	391723	235.857	ug/L	97
51) 1,2-Dichloropropane	6.751	63	527274	223.630	ug/L	99
53) 2-Chloroethyl vinyl ether	7.448	63	321299	259.920	ug/L	94
54) Bromodichloromethane	6.829	83	814230	218.903	ug/L	99
57) 1,4-Dioxane	7.034	88	325642	9840.883	ug/L	95
58) cis-1,3-Dichloropropene	7.516	75	977466	235.931	ug/L	99
61) Toluene	7.784	92	1867788	219.204	ug/L	99
62) 4-Methyl-2-pentanone	8.213	58	207076	206.373	ug/L	89
63) Tetrachloroethene	8.229	166	823622	203.516	ug/L	98
65) trans-1,3-Dichloropropene	8.266	75	929739	206.286	ug/L	98
67) Ethyl methacrylate	8.449	69	934829	235.209	ug/L	92
68) 1,1,2-Trichloroethane	8.455	83	565579	229.399	ug/L	97
69) Chlorodibromomethane	8.664	129	804998	203.716	ug/L	99
70) 1,3-Dichloropropane	8.774	76	926442	195.734	ug/L	99
71) 1,2-Dibromoethane	8.937	107	610771	202.635	ug/L	100
72) 2-Hexanone	9.220	43	345203	205.444	ug/L	97
73) Chlorobenzene	9.587	112	2534684	234.814	ug/L	97
74) Ethylbenzene	9.624	91	4157870	240.265	ug/L	97
75) 1,1,1,2-Tetrachloroethane	9.671	131	922510	224.468	ug/L	98
76) p/m Xylene	9.813	106	3605821	468.064	ug/L	98
77) o Xylene	10.347	106	3587048	480.779	ug/L	98
78) Styrene	10.416	104	6630014	465.405	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A10.D
 Acq On : 25 Sep 2020 11:27 am
 Operator : CHARLIE:JC
 Sample : I8260STD1200PPB
 Misc : WG1415936,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 29 13:45:41 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 13:36:59 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\200925\VC200925A08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.447	173	876233	233.347	ug/L	99
82)	Isopropylbenzene	10.725	105	4733073	226.204	ug/L	99
84)	Bromobenzene	11.165	156	1282684	233.553	ug/L	98
85)	n-Propylbenzene	11.202	91	5312099	212.340	ug/L	96
86)	1,4-Dichlorobutane	11.223	55	962126	198.831	ug/L	97
87)	1,1,2,2-Tetrachloroethane	11.296	83	1041219	218.967	ug/L	99
88)	4-Ethyltoluene	11.328	105	4581392	209.878	ug/L	99
89)	2-Chlorotoluene	11.370	91	3061855	206.394	ug/L	94
90)	1,3,5-Trimethylbenzene	11.427	105	4084715	202.187	ug/L	98
91)	1,2,3-Trichloropropane	11.433	75	768684	194.020	ug/L	91
92)	trans-1,4-Dichloro-2-b...	11.485	53	215601	195.389	ug/L #	82
93)	4-Chlorotoluene	11.553	91	3210977	205.812	ug/L	96
94)	tert-Butylbenzene	11.763	119	3529486	209.585	ug/L	97
97)	1,2,4-Trimethylbenzene	11.842	105	4067489	204.677	ug/L	98
98)	sec-Butylbenzene	11.952	105	5230400	197.372	ug/L	96
99)	p-Isopropyltoluene	12.104	119	4720018	201.038	ug/L	98
100)	1,3-Dichlorobenzene	12.177	146	2636736	206.339	ug/L	99
101)	1,4-Dichlorobenzene	12.272	146	2571930	202.981	ug/L	98
102)	p-Diethylbenzene	12.476	119	2769036	204.753	ug/L	98
103)	n-Butylbenzene	12.534	91	3782782	188.213	ug/L	98
104)	1,2-Dichlorobenzene	12.691	146	2435707	204.327	ug/L	99
105)	1,2,4,5-Tetramethylben...	13.263	119	4504561	216.938	ug/L	98
106)	1,2-Dibromo-3-chloropr...	13.462	155	220944	240.030	ug/L	100
107)	1,3,5-Trichlorobenzene	13.493	180	1694966	214.007	ug/L	98
108)	Hexachlorobutadiene	14.065	225	692168	230.788	ug/L	98
109)	1,2,4-Trichlorobenzene	14.091	180	1424101	214.897	ug/L	98
110)	Naphthalene	14.379	128	3880847	243.901	ug/L	100
111)	1,2,3-Trichlorobenzene	14.547	180	1458827	237.018	ug/L	99

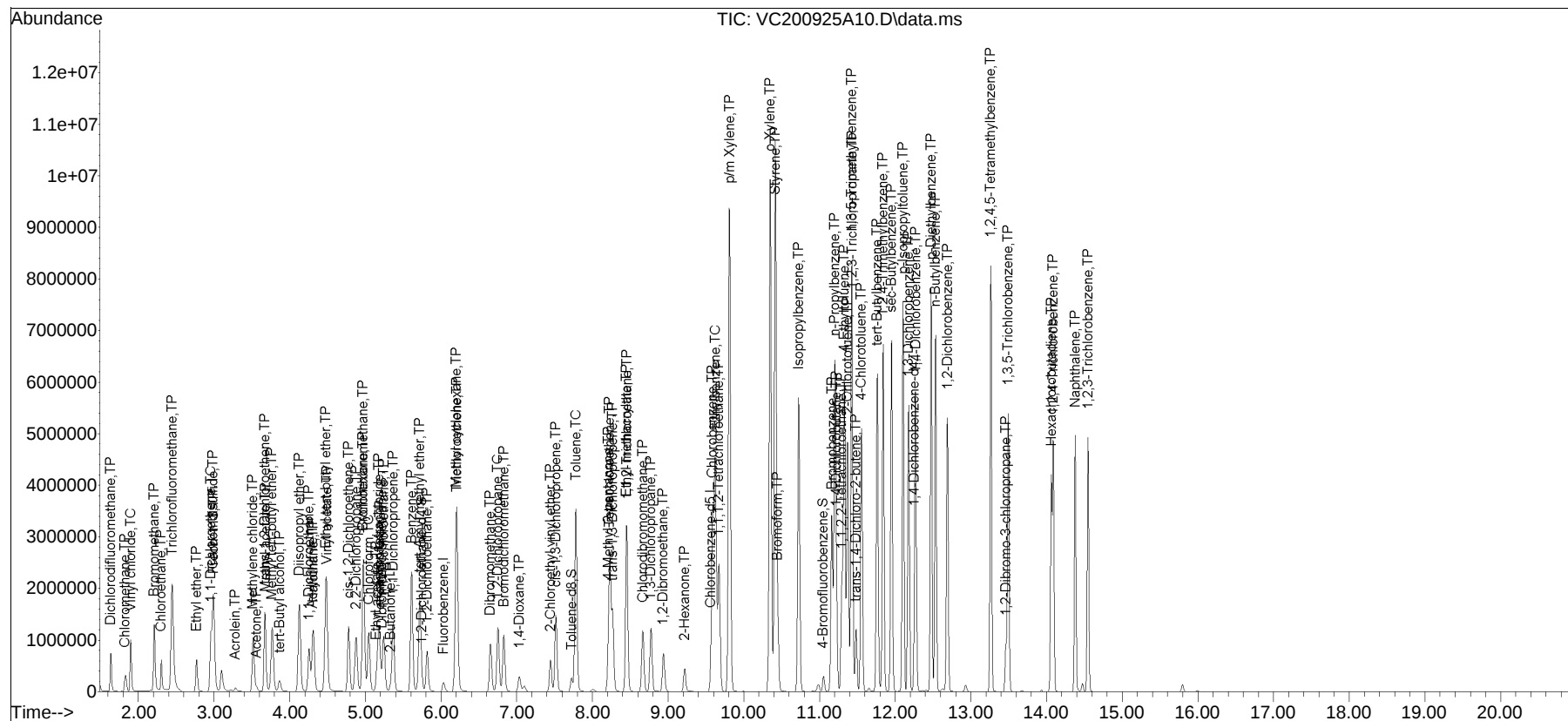
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A10.D
 Acq On : 25 Sep 2020 11:27 am
 Operator : CHARLIE:JC
 Sample : I8260STD200PPB
 Misc : WG1415936,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 29 13:45:41 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 13:36:59 2020
 Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox25\VC200925A08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\Charlie\2020\QMethod	: C_200925A_8260.m
Data File	: VC200925A10.D	Operator : CHARLIE:JC
Date Inj'd	: 9/25/2020 11:27 am	Instrument : Charlie
Sample	: I8260STDL200PPB	Quant Date : 9/29/2020 1:38 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A11.D
 Acq On : 25 Sep 2020 11:54 am
 Operator : CHARLIE:JC
 Sample : I8260STD1300PPB
 Misc : WG1415936,ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 29 13:46:15 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 13:36:59 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\200925\VC200925A08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.032	96	234722	20.000	ug/L	0.00
Standard Area 1 = 167207			Recovery	=	140.38%	
59) Chlorobenzene-d5	9.571	117	255165	20.000	ug/L	0.00
Standard Area 1 = 143890			Recovery	=	177.33%	
79) 1,4-Dichlorobenzene-d4	12.256	152	173252	20.000	ug/L	0.00
Standard Area 1 = 107069			Recovery	=	161.81%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.225	113	62199	19.348	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	96.74%	
43) 1,2-Dichloroethane-d4	5.744	65	67891	26.270	ug/L	-0.01
Spiked Amount 20.000	Range 70 - 130		Recovery	=	131.35%#	
60) Toluene-d8	7.726	98	249685	16.449	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	82.25%	
83) 4-Bromofluorobenzene	11.055	95	124713	23.120	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	115.60%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.634	85	939010	303.855	ug/L	100
3) Chloromethane	1.827	50	637932	311.895	ug/L	100
4) Vinyl chloride	1.896	62	1245627	239.572	ug/L	97
5) Bromomethane	2.210	94	1213529	328.972	ug/L	100
6) Chloroethane	2.299	64	492227	93.273	ug/L	99
7) Trichlorofluoromethane	2.430	101	3626286	283.063	ug/L	100
8) Ethyl ether	2.766	74	509517	354.930	ug/L	89
10) 1,1-Dichloroethene	2.955	96	841141	343.384	ug/L	95
11) Carbon disulfide	2.981	76	2116929	353.759	ug/L	99
12) Freon-113	2.991	101	851533	332.265	ug/L	89
14) Acrolein	3.280	56	108942	351.915	ug/L	97
15) Methylene chloride	3.516	84	1018322	354.301	ug/L	94
17) Acetone	3.563	43	170073	311.069	ug/L	98
18) trans-1,2-Dichloroethene	3.668	96	1045461	368.135	ug/L	93
19) Methyl acetate	3.678	43	477634	348.062	ug/L	95
20) Methyl tert-butyl ether	3.767	73	2833797	372.570	ug/L	94
21) tert-Butyl alcohol	3.867	59	500544	1799.261	ug/L	89
22) Diisopropyl ether	4.129	45	2710618	366.475	ug/L	96
23) 1,1-Dichloroethane	4.255	63	1539688	352.288	ug/L	99
24) Halothane	4.307	117	838185	352.552	ug/L	98
25) Acrylonitrile	4.302	53	224791	356.286	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A11.D
 Acq On : 25 Sep 2020 11:54 am
 Operator : CHARLIE:JC
 Sample : I8260STD300PPB
 Misc : WG1415936,ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 29 13:46:15 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 13:36:59 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\200925\VC200925A08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.480	59	3135780	415.759	ug/L	91
27) Vinyl acetate	4.486	43	2279530	408.691	ug/L #	92
28) cis-1,2-Dichloroethene	4.774	96	1207320	371.873	ug/L	95
29) 2,2-Dichloropropane	4.874	77	1419869	368.273	ug/L	95
30) Bromochloromethane	4.973	128	676841	388.084	ug/L #	88
31) Cyclohexane	4.973	56	1408144	366.905	ug/L	89
32) Chloroform	5.041	83	1794517	355.652	ug/L	98
33) Ethyl acetate	5.152	43	732812	331.599	ug/L	98
34) Carbon tetrachloride	5.178	117	1456899	334.490	ug/L	99
35) Tetrahydrofuran	5.194	42	194824	288.011	ug/L	87
37) 1,1,1-Trichloroethane	5.241	97	1392656	315.415	ug/L	96
39) 2-Butanone	5.335	43	281800	317.620	ug/L #	82
40) 1,1-Dichloropropene	5.361	75	1210020	327.233	ug/L	96
41) Benzene	5.608	78	4471887	384.520	ug/L	98
42) tert-Amyl methyl ether	5.718	73	3481519	415.967	ug/L	89
44) 1,2-Dichloroethane	5.817	62	1281882	369.336	ug/L	98
47) Methyl cyclohexane	6.200	83	1985770	393.367	ug/L	87
48) Trichloroethene	6.211	95	1254956	405.973	ug/L	96
50) Dibromomethane	6.651	93	719148	376.195	ug/L	98
51) 1,2-Dichloropropane	6.751	63	917728	338.168	ug/L	98
53) 2-Chloroethyl vinyl ether	7.443	63	557470	391.811	ug/L #	93
54) Bromodichloromethane	6.829	83	1431928	334.465	ug/L	99
57) 1,4-Dioxane	7.034	88	553092	14521.659	ug/L	95
58) cis-1,3-Dichloropropene	7.516	75	1743822	365.688	ug/L	99
61) Toluene	7.778	92	3345389	327.311	ug/L	98
62) 4-Methyl-2-pentanone	8.214	58	370648	307.948	ug/L #	84
63) Tetrachloroethene	8.229	166	1572336	323.898	ug/L	99
65) trans-1,3-Dichloropropene	8.266	75	1748755	323.468	ug/L	95
67) Ethyl methacrylate	8.449	69	1624485	340.746	ug/L	93
68) 1,1,2-Trichloroethane	8.449	83	992386	335.562	ug/L	96
69) Chlorodibromomethane	8.664	129	1450805	306.078	ug/L	99
70) 1,3-Dichloropropane	8.775	76	1624592	286.145	ug/L	99
71) 1,2-Dibromoethane	8.942	107	1088770	301.138	ug/L	100
72) 2-Hexanone	9.215	43	583305	289.406	ug/L	95
73) Chlorobenzene	9.587	112	4270337	329.803	ug/L	97
74) Ethylbenzene	9.624	91	6705383	323.025	ug/L	97
75) 1,1,1,2-Tetrachloroethane	9.671	131	1635576	331.778	ug/L	99
76) p/m Xylene	9.813	106	6069808	656.855	ug/L	97
77) o Xylene	10.353	106	5958011	665.738	ug/L	97
78) Styrene	10.416	104	10878608	636.624	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A11.D
 Acq On : 25 Sep 2020 11:54 am
 Operator : CHARLIE:JC
 Sample : I8260STD1300PPB
 Misc : WG1415936,ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 29 13:46:15 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 13:36:59 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\200925\VC200925A08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.447	173	1388603	353.072	ug/L	99
82)	Isopropylbenzene	10.725	105	7424076	338.767	ug/L	98
84)	Bromobenzene	11.160	156	2082385	362.016	ug/L	99
85)	n-Propylbenzene	11.202	91	8336447	318.163	ug/L	95
86)	1,4-Dichlorobutane	11.223	55	1512107	298.357	ug/L	98
87)	1,1,2,2-Tetrachloroethane	11.296	83	1627451	326.773	ug/L	99
88)	4-Ethyltoluene	11.328	105	7197889	314.830	ug/L	98
89)	2-Chlorotoluene	11.375	91	4785337	307.983	ug/L	94
90)	1,3,5-Trimethylbenzene	11.428	105	6529418	308.579	ug/L	98
91)	1,2,3-Trichloropropane	11.433	75	1237901	298.322	ug/L	91
92)	trans-1,4-Dichloro-2-b...	11.485	53	334751	289.649	ug/L #	81
93)	4-Chlorotoluene	11.553	91	5028583	307.738	ug/L	95
94)	tert-Butylbenzene	11.763	119	5567614	315.660	ug/L	97
97)	1,2,4-Trimethylbenzene	11.842	105	6349642	305.066	ug/L	98
98)	sec-Butylbenzene	11.952	105	8121763	292.619	ug/L	95
99)	p-Isopropyltoluene	12.104	119	7347433	298.794	ug/L	98
100)	1,3-Dichlorobenzene	12.177	146	4192126	313.220	ug/L	98
101)	1,4-Dichlorobenzene	12.272	146	4112823	309.911	ug/L	98
102)	p-Diethylbenzene	12.476	119	4382873	309.429	ug/L	98
103)	n-Butylbenzene	12.534	91	5833094	277.102	ug/L	98
104)	1,2-Dichlorobenzene	12.691	146	3882708	310.983	ug/L	99
105)	1,2,4,5-Tetramethylben...	13.263	119	7189851	330.602	ug/L	98
106)	1,2-Dibromo-3-chloropr...	13.462	155	356264	369.536	ug/L	99
107)	1,3,5-Trichlorobenzene	13.499	180	2736207	329.851	ug/L	98
108)	Hexachlorobutadiene	14.065	225	1184964	377.233	ug/L	98
109)	1,2,4-Trichlorobenzene	14.091	180	2435718	350.928	ug/L	98
110)	Naphthalene	14.379	128	6188364	371.334	ug/L	100
111)	1,2,3-Trichlorobenzene	14.547	180	2415018	374.628	ug/L	99

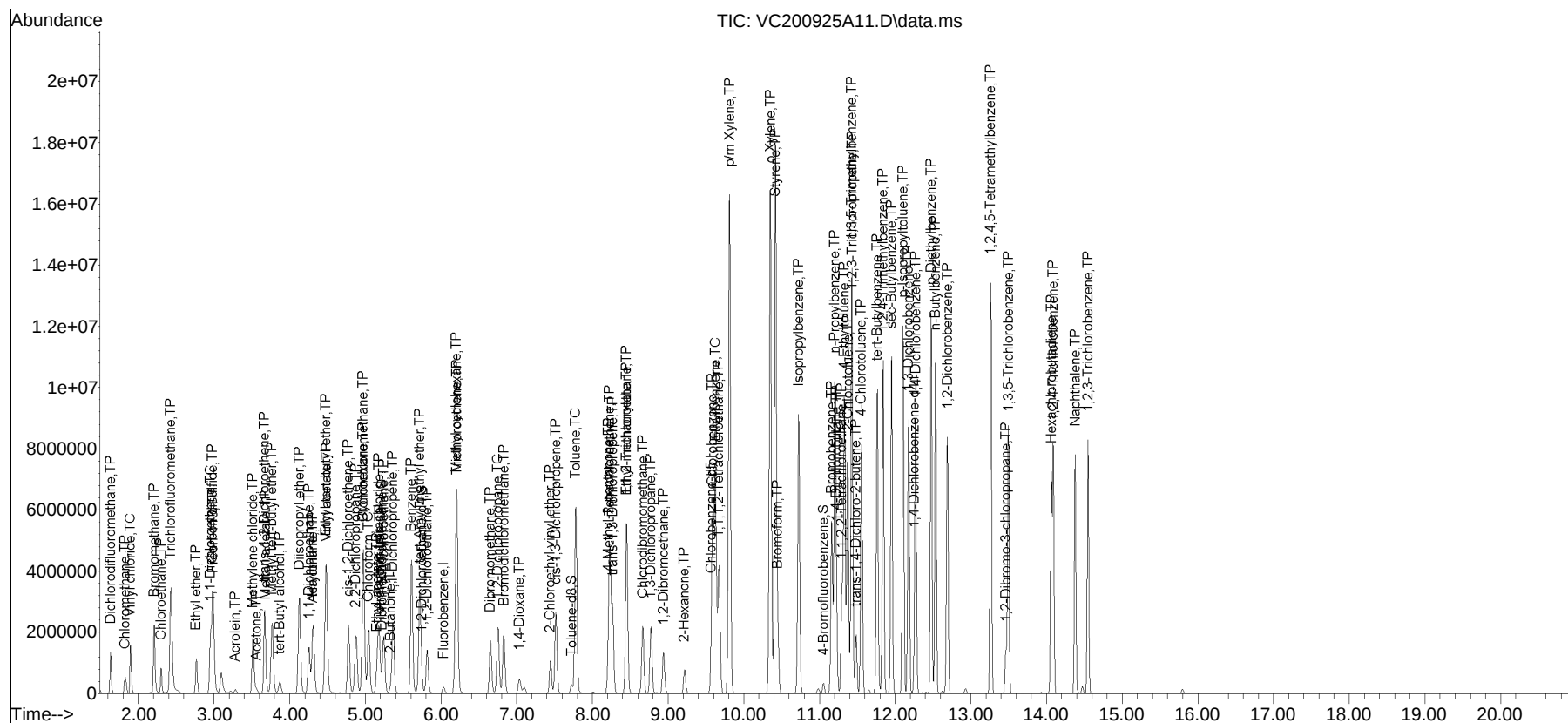
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
Data File : VC200925A11.D
Acq On : 25 Sep 2020 11:54 am
Operator : CHARLIE:JC
Sample : I8260STDL300PPB
Misc : WG1415936,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 29 13:46:15 2020
Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 29 13:36:59 2020
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox25\VC200925A08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\Charlie\2020\QMethod	: C_200925A_8260.m
Data File	: VC200925A11.D	Operator : CHARLIE:JC
Date Inj'd	: 9/25/2020 11:54 am	Instrument : Charlie
Sample	: I8260STD1300PPB	Quant Date : 9/29/2020 1:38 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A15.D
 Acq On : 25 Sep 2020 3:15 pm
 Operator : CHARLIE:JC
 Sample : C8260STD40PPB
 Misc : WG1415936,ICAL
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 29 14:03:53 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	103	0.00
2 TP	Dichlorodifluoromethane	0.283	0.192	32.2#	75	0.00
3 TP	Chloromethane	0.196	0.195	0.5	115	0.01
4 TC	Vinyl chloride	0.451	0.437	3.1	101	0.00
5 TP	Bromomethane	0.372	0.490	-31.7#	160	0.00
6 TP	Chloroethane	0.472	0.514	-8.9	117	0.00
7 TP	Trichlorofluoromethane	1.111	1.247	-12.2	117	0.00
8 TP	Ethyl ether	0.135	0.149	-10.4	125	0.00
10 TC	1,1-Dichloroethene	0.224	0.225	-0.4	111	0.00
11 TP	Carbon disulfide	0.585	0.774	-32.3#	156	0.00
12 TP	Freon-113	0.229	0.254	-10.9	119	0.00
14 TP	Acrolein	0.026	0.030#	-15.4	117	0.00
15 TP	Methylene chloride	0.295	0.270	8.5	113	0.00
17 TP	Acetone	* 40.000	49.889	-24.7#	136	0.00
18 TP	trans-1,2-Dichloroethene	0.262	0.269	-2.7	114	0.00
19 TP	Methyl acetate	0.128	0.171	-33.6#	150	0.00
20 TP	Methyl tert-butyl ether	0.725	0.764	-5.4	121	0.00
21 TP	tert-Butyl alcohol	0.028	0.031#	-10.7	134	0.00
22 TP	Diisopropyl ether	0.706	0.724	-2.5	118	0.00
23 TP	1,1-Dichloroethane	0.415	0.428	-3.1	118	0.00
24 TP	Halothane	0.217	0.223	-2.8	113	0.00
25 TP	Acrylonitrile	0.057	0.064	-12.3	122	0.00
26 TP	Ethyl tert-butyl ether	0.739	0.751	-1.6	120	0.00
27 TP	Vinyl acetate	0.522	0.540	-3.4	117	0.00
28 TP	cis-1,2-Dichloroethene	0.306	0.315	-2.9	117	0.00
29 TP	2,2-Dichloropropane	0.363	0.347	4.4	109	0.00
30 TP	Bromochloromethane	0.161	0.176	-9.3	121	0.00
31 TP	Cyclohexane	0.354	0.365	-3.1	115	0.00
32 TC	Chloroform	0.486	0.478	1.6	114	0.00
33 TP	Ethyl acetate	0.193	0.215	-11.4	117	0.00
34 TP	Carbon tetrachloride	0.388	0.402	-3.6	111	0.00
35 TP	Tetrahydrofuran	0.062	0.069	-11.3	123	0.00
36 S	Dibromofluoromethane	0.267	0.278	-4.1	104	0.00
37 TP	1,1,1-Trichloroethane	0.411	0.428	-4.1	117	0.00
39 TP	2-Butanone	0.090	0.100	-11.1	136	0.00
40 TP	1,1-Dichloropropene	0.339	0.351	-3.5	114	0.00
41 TP	Benzene	1.162	1.086	6.5	112	0.00
42 TP	tert-Amyl methyl ether	0.802	0.808	-0.7	116	0.00
43 S	1,2-Dichloroethane-d4	0.230	0.219	4.8	102	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A15.D
 Acq On : 25 Sep 2020 3:15 pm
 Operator : CHARLIE:JC
 Sample : C8260STD40PPB
 Misc : WG1415936,ICAL
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 29 14:03:53 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TP	1,2-Dichloroethane	0.327	0.327	0.0	113	0.00
47 TP	Methyl cyclohexane	0.467	0.463	0.9	110	0.00
48 TP	Trichloroethene	0.298	0.288	3.4	112	0.00
50 TP	Dibromomethane	0.175	0.181	-3.4	114	0.00
51 TC	1,2-Dichloropropane	0.246	0.254	-3.3	113	0.00
53 TP	2-Chloroethyl vinyl ether	0.136	0.152	-11.8	129	0.00
54 TP	Bromodichloromethane	0.409	0.378	7.6	106	0.00
57 TP	1,4-Dioxane	0.00303	0.00348#	-14.9	110	0.00
58 TP	cis-1,3-Dichloropropene	0.447	0.426	4.7	108	0.00
59 I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
60 S	Toluene-d8	1.187	1.166	1.8	102	0.00
61 TC	Toluene	0.871	0.863	0.9	112	0.00
62 TP	4-Methyl-2-pentanone	0.093	0.116	-24.7#	127	0.00
63 TP	Tetrachloroethene	0.410	0.409	0.2	112	0.00
65 TP	trans-1,3-Dichloropropene	0.437	0.461	-5.5	113	0.00
67 TP	Ethyl methacrylate	0.395	0.425	-7.6	118	0.00
68 TP	1,1,2-Trichloroethane	0.255	0.258	-1.2	116	0.00
69 TP	Chlorodibromomethane	0.409	0.420	-2.7	117	0.00
70 TP	1,3-Dichloropropane	0.468	0.486	-3.8	113	0.00
71 TP	1,2-Dibromoethane	0.295	0.318	-7.8	116	0.00
72 TP	2-Hexanone	0.164	0.197	-20.1#	129	0.00
73 TP	Chlorobenzene	1.181	1.105	6.4	113	0.00
74 TC	Ethylbenzene	1.742	1.736	0.3	111	0.00
75 TP	1,1,1,2-Tetrachloroethane	0.426	0.418	1.9	112	0.00
76 TP	p/m Xylene	0.780	0.782	-0.3	112	0.00
77 TP	o Xylene	0.758	0.778	-2.6	115	0.00
78 TP	Styrene	1.347	1.500	-11.4	116	0.00
79 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
80 TP	Bromoform	0.480	0.529	-10.2	119	0.00
82 TP	Isopropylbenzene	2.854	2.809	1.6	113	-0.01
83 S	4-Bromofluorobenzene	0.680	0.602	11.5	99	0.00
84 TP	Bromobenzene	0.789	0.746	5.4	115	0.00
85 TP	n-Propylbenzene	3.297	3.272	0.8	110	0.00
86 TP	1,4-Dichlorobutane	0.635	0.701	-10.4	122	0.00
87 TP	1,1,2,2-Tetrachloroethane	* 40.000	41.543	-3.9	115	0.00
88 TP	4-Ethyltoluene	2.844	2.792	1.8	108	0.00
89 TP	2-Chlorotoluene	1.916	1.881	1.8	107	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A15.D
 Acq On : 25 Sep 2020 3:15 pm
 Operator : CHARLIE:JC
 Sample : C8260STD40PPB
 Misc : WG1415936,ICAL
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 29 14:03:53 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
90 TP	1,3,5-Trimethylbenzene	2.515	2.565	-2.0	107	0.00
91 TP	1,2,3-Trichloropropane	0.493	0.535	-8.5	114	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.130	0.144	-10.8	110	0.00
93 TP	4-Chlorotoluene	1.962	1.905	2.9	103	0.00
94 TP	tert-Butylbenzene	2.164	2.189	-1.2	110	0.00
97 TP	1,2,4-Trimethylbenzene	2.463	2.568	-4.3	109	0.00
98 TP	sec-Butylbenzene	3.235	3.344	-3.4	106	0.00
99 TP	p-Isopropyltoluene	2.870	2.913	-1.5	105	0.00
100 TP	1,3-Dichlorobenzene	1.597	1.573	1.5	104	0.00
101 TP	1,4-Dichlorobenzene	1.643	1.587	3.4	106	0.00
102 TP	p-Diethylbenzene	1.680	1.551	7.7	97	0.00
103 TP	n-Butylbenzene	2.375	2.542	-7.0	107	0.00
104 TP	1,2-Dichlorobenzene	1.495	1.497	-0.1	106	0.00
105 TP	1,2,4,5-Tetramethylbenzene	2.624	2.489	5.1	101	0.00
106 TP	1,2-Dibromo-3-chloropropane	0.123	0.134	-8.9	123	0.00
107 TP	1,3,5-Trichlorobenzene	1.023	0.943	7.8	100	0.00
108 TP	Hexachlorobutadiene	0.408	0.373	8.6	105	0.00
109 TP	1,2,4-Trichlorobenzene	0.884	0.824	6.8	105	0.00
110 TP	Naphthalene	2.177	2.150	1.2	114	0.00
111 TP	1,2,3-Trichlorobenzene	0.848	0.801	5.5	110	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 3 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A15.D
 Acq On : 25 Sep 2020 3:15 pm
 Operator : CHARLIE:JC
 Sample : C8260STD40PPB
 Misc : WG1415936,ICAL
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 29 14:03:53 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\200925\VC200925A08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.032	96	171581	20.000	ug/L	0.00
Standard Area 1 = 167207			Recovery	=	102.62%	
59) Chlorobenzene-d5	9.566	117	149316	20.000	ug/L	0.00
Standard Area 1 = 143890			Recovery	=	103.77%	
79) 1,4-Dichlorobenzene-d4	12.251	152	109108	20.000	ug/L	0.00
Standard Area 1 = 107069			Recovery	=	101.90%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.225	113	47757	20.853	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	104.27%	
43) 1,2-Dichloroethane-d4	5.749	65	37649	19.077	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	95.39%	
60) Toluene-d8	7.721	98	174083	19.639	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	98.19%	
83) 4-Bromofluorobenzene	11.050	95	65724	17.726	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	88.63%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.644	85	65734	27.106	ug/L	99
3) Chloromethane	1.838	50	66872	39.725	ug/L	98
4) Vinyl chloride	1.906	62	149948	38.779	ug/L	97
5) Bromomethane	2.216	94	168012	52.665	ug/L	99
6) Chloroethane	2.326	64	176243	43.525	ug/L	99
7) Trichlorofluoromethane	2.467	101	427840	44.903	ug/L	99
8) Ethyl ether	2.777	74	51113	44.089	ug/L	91
10) 1,1-Dichloroethene	2.965	96	77343	40.304	ug/L	96
11) Carbon disulfide	2.997	76	265585	52.883	ug/L	100
12) Freon-113	3.002	101	87027	44.292	ug/L	83
14) Acrolein	3.290	56	10321	45.847	ug/L	99
15) Methylene chloride	3.526	84	92639	36.584	ug/L	99
17) Acetone	3.568	43	21248	49.889	ug/L	99
18) trans-1,2-Dichloroethene	3.678	96	92378	41.021	ug/L	93
19) Methyl acetate	3.684	43	58736	53.676	ug/L	99
20) Methyl tert-butyl ether	3.773	73	262257	42.172	ug/L	95
21) tert-Butyl alcohol	3.862	59	53068	221.796	ug/L	95
22) Diisopropyl ether	4.129	45	248449	41.029	ug/L	99
23) 1,1-Dichloroethane	4.260	63	147013	41.341	ug/L	99
24) Halothane	4.313	117	76566	41.215	ug/L	98
25) Acrylonitrile	4.308	53	21924	44.787	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A15.D
 Acq On : 25 Sep 2020 3:15 pm
 Operator : CHARLIE:JC
 Sample : C8260STD40PPB
 Misc : WG1415936,ICAL
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 29 14:03:53 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\200925\VC200925A08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.475	59	257716	40.646	ug/L	94
27) Vinyl acetate	4.491	43	185401	41.439	ug/L	97
28) cis-1,2-Dichloroethene	4.779	96	108201	41.272	ug/L	94
29) 2,2-Dichloropropane	4.879	77	119221	38.242	ug/L	97
30) Bromochloromethane	4.973	128	60346	43.583	ug/L	95
31) Cyclohexane	4.973	56	125385	41.295	ug/L	95
32) Chloroform	5.047	83	163993	39.352	ug/L	99
33) Ethyl acetate	5.152	43	73942	44.553	ug/L	100
34) Carbon tetrachloride	5.178	117	137874	41.441	ug/L	98
35) Tetrahydrofuran	5.199	42	23664	44.587	ug/L	98
37) 1,1,1-Trichloroethane	5.246	97	146839	41.609	ug/L #	62
39) 2-Butanone	5.335	43	34459	44.639	ug/L	90
40) 1,1-Dichloropropene	5.367	75	120435	41.471	ug/L	96
41) Benzene	5.613	78	372796	37.382	ug/L	99
42) tert-Amyl methyl ether	5.718	73	277165	40.279	ug/L	90
44) 1,2-Dichloroethane	5.818	62	112084	39.943	ug/L	98
47) Methyl cyclohexane	6.200	83	158735	39.616	ug/L	90
48) Trichloroethene	6.211	95	98699	38.645	ug/L	91
50) Dibromomethane	6.651	93	62127	41.484	ug/L	94
51) 1,2-Dichloropropane	6.756	63	87107	41.298	ug/L	98
53) 2-Chloroethyl vinyl ether	7.443	63	52290	44.866	ug/L #	94
54) Bromodichloromethane	6.829	83	129612	36.968	ug/L	100
57) 1,4-Dioxane	7.034	88	59717	2300.273	ug/L	95
58) cis-1,3-Dichloropropene	7.516	75	146346	38.166	ug/L	99
61) Toluene	7.784	92	257766	39.639	ug/L	100
62) 4-Methyl-2-pentanone	8.214	58	34512	49.453	ug/L	95
63) Tetrachloroethene	8.229	166	122127	39.892	ug/L	97
65) trans-1,3-Dichloropropene	8.266	75	137692	42.159	ug/L	100
67) Ethyl methacrylate	8.450	69	126796	43.047	ug/L	90
68) 1,1,2-Trichloroethane	8.450	83	77190	40.484	ug/L	98
69) Chlorodibromomethane	8.664	129	125305	41.072	ug/L	99
70) 1,3-Dichloropropane	8.775	76	145066	41.560	ug/L	99
71) 1,2-Dibromoethane	8.937	107	94962	43.149	ug/L	99
72) 2-Hexanone	9.220	43	58874	48.089	ug/L	99
73) Chlorobenzene	9.587	112	330095	37.439	ug/L	96
74) Ethylbenzene	9.619	91	518299	39.844	ug/L	97
75) 1,1,1,2-Tetrachloroethane	9.671	131	124954	39.246	ug/L	98
76) p/m Xylene	9.807	106	467162	80.252	ug/L	96
77) o Xylene	10.348	106	464846	82.182	ug/L	97
78) Styrene	10.410	104	896058	89.085	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A15.D
 Acq On : 25 Sep 2020 3:15 pm
 Operator : CHARLIE:JC
 Sample : C8260STD40PPB
 Misc : WG1415936,ICAL
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 29 14:03:53 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\200925\VC200925A08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.442	173	115381	44.056	ug/L	99
82)	Isopropylbenzene	10.720	105	612915	39.369	ug/L	100
84)	Bromobenzene	11.160	156	162882	37.832	ug/L	99
85)	n-Propylbenzene	11.202	91	714042	39.701	ug/L	97
86)	1,4-Dichlorobutane	11.223	55	153002	44.177	ug/L	99
87)	1,1,2,2-Tetrachloroethane	11.291	83	141655	41.543	ug/L	99
88)	4-Ethyltoluene	11.328	105	609355	39.268	ug/L	99
89)	2-Chlorotoluene	11.370	91	410569	39.289	ug/L	94
90)	1,3,5-Trimethylbenzene	11.422	105	559708	40.795	ug/L	97
91)	1,2,3-Trichloropropane	11.428	75	116644	43.376	ug/L	95
92)	trans-1,4-Dichloro-2-b...	11.480	53	31450	44.408	ug/L	99
93)	4-Chlorotoluene	11.553	91	415611	38.820	ug/L	94
94)	tert-Butylbenzene	11.763	119	477721	40.473	ug/L	97
97)	1,2,4-Trimethylbenzene	11.837	105	560353	41.702	ug/L	98
98)	sec-Butylbenzene	11.947	105	729762	41.347	ug/L	97
99)	p-Isopropyltoluene	12.104	119	635744	40.597	ug/L	98
100)	1,3-Dichlorobenzene	12.177	146	343333	39.400	ug/L	99
101)	1,4-Dichlorobenzene	12.266	146	346227	38.623	ug/L	97
102)	p-Diethylbenzene	12.476	119	338448	36.926	ug/L	98
103)	n-Butylbenzene	12.534	91	554617	42.810	ug/L	98
104)	1,2-Dichlorobenzene	12.691	146	326673	40.066	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.263	119	543184	37.945	ug/L	97
106)	1,2-Dibromo-3-chloropr...	13.462	155	29207	43.581	ug/L	98
107)	1,3,5-Trichlorobenzene	13.493	180	205719	36.858	ug/L	99
108)	Hexachlorobutadiene	14.065	225	81503	36.651	ug/L	99
109)	1,2,4-Trichlorobenzene	14.091	180	179840	37.299	ug/L	99
110)	Naphthalene	14.379	128	469061	39.490	ug/L	100
111)	1,2,3-Trichlorobenzene	14.547	180	174867	37.809	ug/L	99

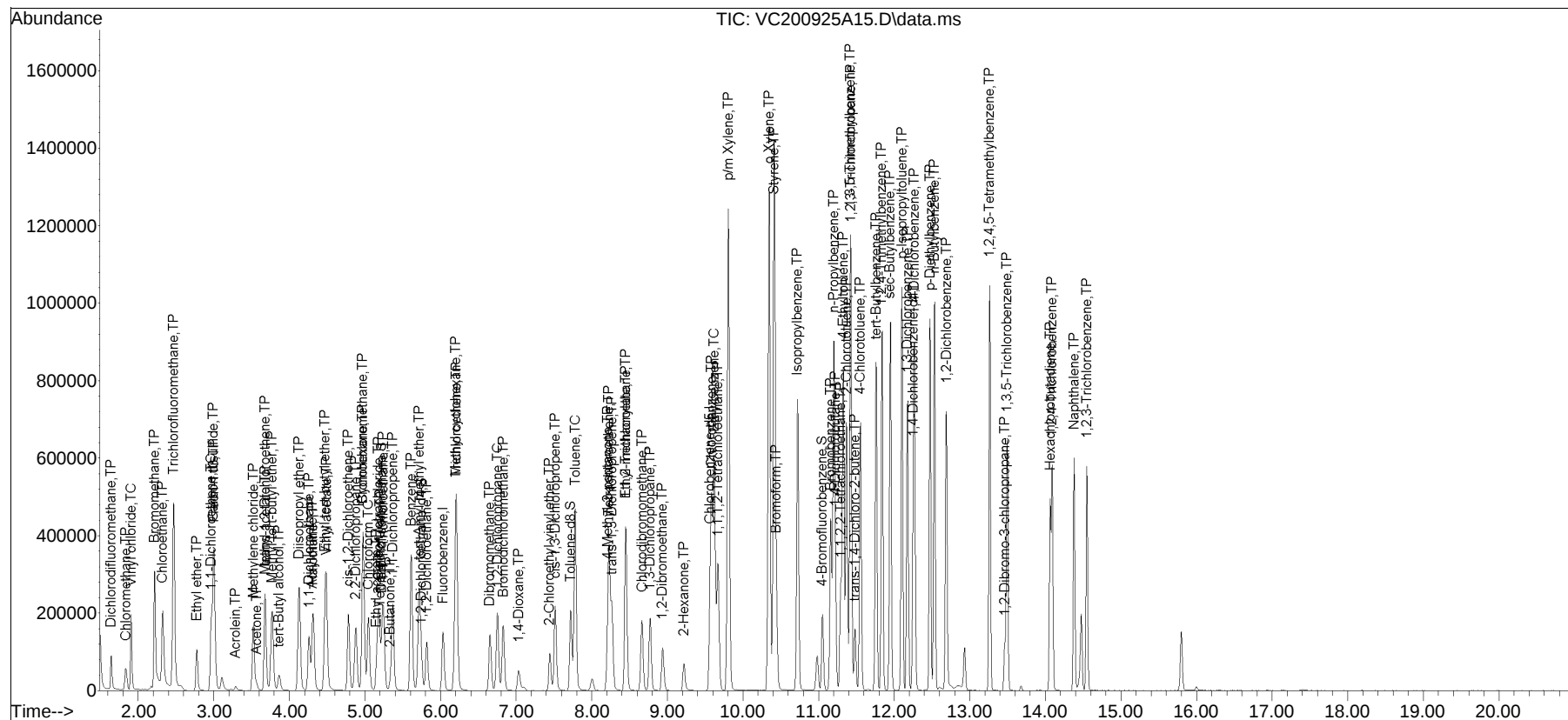
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\200925\
 Data File : VC200925A15.D
 Acq On : 25 Sep 2020 3:15 pm
 Operator : CHARLIE:JC
 Sample : C8260STD40PPB
 Misc : WG1415936,ICAL
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 29 14:03:53 2020
 Quant Method : I:\VOLATILES\Charlie\2020\200925\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox25\VC200925A08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\Charlie\2020\QMethod	: C_200925A_8260.m
Data File	: VC200925A15.D	Operator : CHARLIE:JC
Date Inj'd	: 9/25/2020 3:15 pm	Instrument : Charlie
Sample	: C8260STD40PPB	Quant Date : 9/29/2020 2:03 pm

There are no manual integrations or false positives in this file.

Continuing Calibration

Calibration Verification Summary

Form 7

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Instrument ID : CHARLIE
 Lab File ID : VC201001N01
 Sample No : WG1417205-2
 Channel :

Lab Number : L2040828
 Project Number : 48122
 Calibration Date : 10/01/20 17:38
 Init. Calib. Date(s) : 09/25/20 09/25/20
 Init. Calib. Times : 08:17 11:54

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	92	0
Dichlorodifluoromethane	0.283	0.27	-	4.6	20	94	0
Chloromethane	0.196	0.183	-	6.6	20	96	0
Vinyl chloride	0.451	0.486	-	-7.8	20	101	0
Bromomethane	0.372	0.435	-	-16.9	20	127	0
Chloroethane	0.472	0.637	-	-35*	20	130	0
Trichlorofluoromethane	1.111	1.2	-	-8	20	101	0
Ethyl ether	0.135	0.132	-	2.2	20	100	0
1,1-Dichloroethene	0.224	0.239	-	-6.7	20	105	0
Carbon disulfide	0.585	0.536	-	8.4	20	97	0
Freon-113	0.229	0.235	-	-2.6	20	99	0
Acrolein	0.026	0.024*	-	7.7	20	84	0
Methylene chloride	0.295	0.271	-	8.1	20	102	0
Acetone	40	30.591	-	23.5*	20	78	0
trans-1,2-Dichloroethene	0.262	0.278	-	-6.1	20	106	0
Methyl acetate	0.128	0.102	-	20.3*	20	80	0
Methyl tert-butyl ether	0.725	0.621	-	14.3	20	88	0
tert-Butyl alcohol	0.028	0.018*	-	35.7*	20	71	0
Diisopropyl ether	0.706	0.594	-	15.9	20	87	0
1,1-Dichloroethane	0.415	0.403	-	2.9	20	100	0
Halothane	0.217	0.211	-	2.8	20	96	0
Acrylonitrile	0.057	0.05	-	12.3	20	86	0
Ethyl tert-butyl ether	0.739	0.604	-	18.3	20	86	0
Vinyl acetate	0.522	0.402	-	23*	20	78	0
cis-1,2-Dichloroethene	0.306	0.306	-	0	20	102	0
2,2-Dichloropropane	0.363	0.269	-	25.9*	20	75	0
Bromochloromethane	0.161	0.154	-	4.3	20	95	0
Cyclohexane	0.354	0.313	-	11.6	20	88	0
Chloroform	0.486	0.462	-	4.9	20	99	0
Ethyl acetate	0.193	0.169	-	12.4	20	82	0
Carbon tetrachloride	0.388	0.356	-	8.2	20	88	0
Tetrahydrofuran	0.062	0.05	-	19.4	20	80	0
Dibromofluoromethane	0.267	0.263	-	1.5	20	88	0
1,1,1-Trichloroethane	0.411	0.381	-	7.3	20	93	0
2-Butanone	0.09	0.068*	-	24.4*	20	83	0
1,1-Dichloropropene	0.339	0.335	-	1.2	20	98	0
Benzene	1.162	1.051	-	9.6	20	98	0
tert-Amyl methyl ether	0.802	0.617	-	23.1*	20	80	0
1,2-Dichloroethane-d4	0.23	0.205	-	10.9	20	86	0
1,2-Dichloroethane	0.327	0.293	-	10.4	20	91	0
Methyl cyclohexane	0.467	0.426	-	8.8	20	91	0
Trichloroethene	0.298	0.285	-	4.4	20	99	0
Dibromomethane	0.175	0.167	-	4.6	20	94	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Instrument ID : CHARLIE
 Lab File ID : VC201001N01
 Sample No : WG1417205-2
 Channel :

Lab Number : L2040828
 Project Number : 48122
 Calibration Date : 10/01/20 17:38
 Init. Calib. Date(s) : 09/25/20 09/25/20
 Init. Calib. Times : 08:17 11:54

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.246	0.238	-	3.3	20	94	0
2-Chloroethyl vinyl ether	0.136	0.125	-	8.1	20	95	0
Bromodichloromethane	0.409	0.35	-	14.4	20	88	0
1,4-Dioxane	0.00303	0.00269*	-	11.2	20	76	0
cis-1,3-Dichloropropene	0.447	0.378	-	15.4	20	85	0
Chlorobenzene-d5	1	1	-	0	20	92	0
Toluene-d8	1.187	1.174	-	1.1	20	91	0
Toluene	0.871	0.804	-	7.7	20	92	0
4-Methyl-2-pentanone	0.093	0.083*	-	10.8	20	81	0
Tetrachloroethene	0.41	0.373	-	9	20	90	0
trans-1,3-Dichloropropene	0.437	0.347	-	20.6*	20	75	0
Ethyl methacrylate	0.395	0.334	-	15.4	20	82	0
1,1,2-Trichloroethane	0.255	0.229	-	10.2	20	91	0
Chlorodibromomethane	0.409	0.329	-	19.6	20	82	0
1,3-Dichloropropane	0.468	0.443	-	5.3	20	92	0
1,2-Dibromoethane	0.295	0.28	-	5.1	20	91	0
2-Hexanone	0.164	0.132	-	19.5	20	77	0
Chlorobenzene	1.181	1.005	-	14.9	20	91	0
Ethylbenzene	1.742	1.572	-	9.8	20	89	0
1,1,1,2-Tetrachloroethane	0.426	0.346	-	18.8	20	82	0
p/m Xylene	0.78	0.686	-	12.1	20	87	0
o Xylene	0.758	0.652	-	14	20	86	0
Styrene	1.347	1.137	-	15.6	20	78	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	74	0
Bromoform	0.48	0.363	-	24.4*	20	59	0
Isopropylbenzene	2.854	2.851	-	0.1	20	83	0
4-Bromofluorobenzene	0.68	0.673	-	1	20	79	0
Bromobenzene	0.789	0.75	-	4.9	20	83	0
n-Propylbenzene	3.297	3.374	-	-2.3	20	82	0
1,4-Dichlorobutane	0.635	0.57	-	10.2	20	72	0
1,1,2,2-Tetrachloroethane	40	39.059	-	2.4	20	78	0
4-Ethyltoluene	2.844	2.878	-	-1.2	20	80	0
2-Chlorotoluene	1.916	1.862	-	2.8	20	76	0
1,3,5-Trimethylbenzene	2.515	2.473	-	1.7	20	74	0
1,2,3-Trichloropropane	0.493	0.456	-	7.5	20	70	0
trans-1,4-Dichloro-2-buten	0.13	0.109	-	16.2	20	60	0
4-Chlorotoluene	1.962	1.892	-	3.6	20	74	0
tert-Butylbenzene	2.164	2.124	-	1.8	20	77	0
1,2,4-Trimethylbenzene	2.463	2.425	-	1.5	20	74	0
sec-Butylbenzene	3.235	3.21	-	0.8	20	74	0
p-Isopropyltoluene	2.87	2.822	-	1.7	20	73	0
1,3-Dichlorobenzene	1.597	1.535	-	3.9	20	73	0
1,4-Dichlorobenzene	1.643	1.576	-	4.1	20	76	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Instrument ID : CHARLIE
 Lab File ID : VC201001N01
 Sample No : WG1417205-2
 Channel :

Lab Number : L2040828
 Project Number : 48122
 Calibration Date : 10/01/20 17:38
 Init. Calib. Date(s) : 09/25/20 09/25/20
 Init. Calib. Times : 08:17 11:54

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.68	1.692	-	-0.7	20	76	0
n-Butylbenzene	2.375	2.439	-	-2.7	20	74	0
1,2-Dichlorobenzene	1.495	1.404	-	6.1	20	72	0
1,2,4,5-Tetramethylbenzene	2.624	2.527	-	3.7	20	74	0
1,2-Dibromo-3-chloropropan	0.123	0.097	-	21.1*	20	64	0
1,3,5-Trichlorobenzene	1.023	1.027	-	-0.4	20	79	0
Hexachlorobutadiene	0.408	0.365	-	10.5	20	74	0
1,2,4-Trichlorobenzene	0.884	0.909	-	-2.8	20	83	0
Naphthalene	2.177	2.032	-	6.7	20	78	0
1,2,3-Trichlorobenzene	0.848	0.79	-	6.8	20	78	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N01.D
 Acq On : 1 Oct 2020 5:38 pm
 Operator : CHARLIE:AD
 Sample : WG1417205-2
 Misc : WG1417205, ICAL17178
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 18:20:32 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	92	0.00
2 TP	Dichlorodifluoromethane	0.283	0.270	4.6	94	0.00
3 TP	Chloromethane	0.196	0.183	6.6	96	0.00
4 TC	Vinyl chloride	0.451	0.486	-7.8	101	0.00
5 TP	Bromomethane	0.372	0.435	-16.9	127	0.00
6 TP	Chloroethane	0.472	0.637	-35.0#	130	0.00
7 TP	Trichlorofluoromethane	1.111	1.200	-8.0	101	0.00
8 TP	Ethyl ether	0.135	0.132	2.2	100	0.00
10 TC	1,1-Dichloroethene	0.224	0.239	-6.7	105	0.00
11 TP	Carbon disulfide	0.585	0.536	8.4	97	0.00
12 TP	Freon-113	0.229	0.235	-2.6	99	0.00
14 TP	Acrolein	0.026	0.024#	7.7	84	0.00
15 TP	Methylene chloride	0.295	0.271	8.1	102	0.00
17 TP	Acetone	* 40.000	30.591	23.5#	78	0.00
18 TP	trans-1,2-Dichloroethene	0.262	0.278	-6.1	106	0.00
19 TP	Methyl acetate	0.128	0.102	20.3#	80	0.00
20 TP	Methyl tert-butyl ether	0.725	0.621	14.3	88	0.00
21 TP	tert-Butyl alcohol	0.028	0.018#	35.7#	71	0.00
22 TP	Diisopropyl ether	0.706	0.594	15.9	87	0.00
23 TP	1,1-Dichloroethane	0.415	0.403	2.9	100	0.00
24 TP	Halothane	0.217	0.211	2.8	96	0.00
25 TP	Acrylonitrile	0.057	0.050	12.3	86	0.00
26 TP	Ethyl tert-butyl ether	0.739	0.604	18.3	86	0.00
27 TP	Vinyl acetate	0.522	0.402	23.0#	78	0.00
28 TP	cis-1,2-Dichloroethene	0.306	0.306	0.0	102	0.00
29 TP	2,2-Dichloropropane	0.363	0.269	25.9#	75	0.00
30 TP	Bromochloromethane	0.161	0.154	4.3	95	0.00
31 TP	Cyclohexane	0.354	0.313	11.6	88	0.00
32 TC	Chloroform	0.486	0.462	4.9	99	0.00
33 TP	Ethyl acetate	0.193	0.169	12.4	82	0.00
34 TP	Carbon tetrachloride	0.388	0.356	8.2	88	0.00
35 TP	Tetrahydrofuran	0.062	0.050	19.4	80	0.00
36 S	Dibromofluoromethane	0.267	0.263	1.5	88	0.00
37 TP	1,1,1-Trichloroethane	0.411	0.381	7.3	93	0.00
39 TP	2-Butanone	0.090	0.068#	24.4#	83	0.00
40 TP	1,1-Dichloropropene	0.339	0.335	1.2	98	0.00
41 TP	Benzene	1.162	1.051	9.6	98	0.00
42 TP	tert-Amyl methyl ether	0.802	0.617	23.1#	80	0.00
43 S	1,2-Dichloroethane-d4	0.230	0.205	10.9	86	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N01.D
 Acq On : 1 Oct 2020 5:38 pm
 Operator : CHARLIE:AD
 Sample : WG1417205-2
 Misc : WG1417205,ICAL17178
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 18:20:32 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TP	1,2-Dichloroethane	0.327	0.293	10.4	91	0.00
47 TP	Methyl cyclohexane	0.467	0.426	8.8	91	0.00
48 TP	Trichloroethene	0.298	0.285	4.4	99	0.00
50 TP	Dibromomethane	0.175	0.167	4.6	94	0.00
51 TC	1,2-Dichloropropane	0.246	0.238	3.3	94	0.00
53 TP	2-Chloroethyl vinyl ether	0.136	0.125	8.1	95	0.00
54 TP	Bromodichloromethane	0.409	0.350	14.4	88	0.00
57 TP	1,4-Dioxane	0.00303	0.00269#	11.2	76	0.00
58 TP	cis-1,3-Dichloropropene	0.447	0.378	15.4	85	0.00
59 I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
60 S	Toluene-d8	1.187	1.174	1.1	91	0.00
61 TC	Toluene	0.871	0.804	7.7	92	0.00
62 TP	4-Methyl-2-pentanone	0.093	0.083#	10.8	81	0.00
63 TP	Tetrachloroethene	0.410	0.373	9.0	90	0.00
65 TP	trans-1,3-Dichloropropene	0.437	0.347	20.6#	75	0.00
67 TP	Ethyl methacrylate	0.395	0.334	15.4	82	0.00
68 TP	1,1,2-Trichloroethane	0.255	0.229	10.2	91	0.00
69 TP	Chlorodibromomethane	0.409	0.329	19.6	82	0.00
70 TP	1,3-Dichloropropane	0.468	0.443	5.3	92	0.00
71 TP	1,2-Dibromoethane	0.295	0.280	5.1	91	0.00
72 TP	2-Hexanone	0.164	0.132	19.5	77	0.00
73 TP	Chlorobenzene	1.181	1.005	14.9	91	0.00
74 TC	Ethylbenzene	1.742	1.572	9.8	89	0.00
75 TP	1,1,1,2-Tetrachloroethane	0.426	0.346	18.8	82	0.00
76 TP	p/m Xylene	0.780	0.686	12.1	87	0.00
77 TP	o Xylene	0.758	0.652	14.0	86	0.00
78 TP	Styrene	1.347	1.137	15.6	78	0.00
79 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	74	0.00
80 TP	Bromoform	0.480	0.363	24.4#	59	0.00
82 TP	Isopropylbenzene	2.854	2.851	0.1	83	0.00
83 S	4-Bromofluorobenzene	0.680	0.673	1.0	79	0.00
84 TP	Bromobenzene	0.789	0.750	4.9	83	0.00
85 TP	n-Propylbenzene	3.297	3.374	-2.3	82	0.00
86 TP	1,4-Dichlorobutane	0.635	0.570	10.2	72	0.00
87 TP	1,1,2,2-Tetrachloroethane	* 40.000	39.059	2.4	78	0.00
88 TP	4-Ethyltoluene	2.844	2.878	-1.2	80	0.00
89 TP	2-Chlorotoluene	1.916	1.862	2.8	76	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N01.D
 Acq On : 1 Oct 2020 5:38 pm
 Operator : CHARLIE:AD
 Sample : WG1417205-2
 Misc : WG1417205,ICAL17178
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 18:20:32 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
90 TP	1,3,5-Trimethylbenzene	2.515	2.473	1.7	74	0.00
91 TP	1,2,3-Trichloropropane	0.493	0.456	7.5	70	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.130	0.109	16.2	60	0.00
93 TP	4-Chlorotoluene	1.962	1.892	3.6	74	0.00
94 TP	tert-Butylbenzene	2.164	2.124	1.8	77	0.00
97 TP	1,2,4-Trimethylbenzene	2.463	2.425	1.5	74	0.00
98 TP	sec-Butylbenzene	3.235	3.210	0.8	74	0.00
99 TP	p-Isopropyltoluene	2.870	2.822	1.7	73	0.00
100 TP	1,3-Dichlorobenzene	1.597	1.535	3.9	73	0.00
101 TP	1,4-Dichlorobenzene	1.643	1.576	4.1	76	0.00
102 TP	p-Diethylbenzene	1.680	1.692	-0.7	76	0.00
103 TP	n-Butylbenzene	2.375	2.439	-2.7	74	0.00
104 TP	1,2-Dichlorobenzene	1.495	1.404	6.1	72	0.00
105 TP	1,2,4,5-Tetramethylbenzene	2.624	2.527	3.7	74	0.00
106 TP	1,2-Dibromo-3-chloropropane	0.123	0.097	21.1#	64	0.00
107 TP	1,3,5-Trichlorobenzene	1.023	1.027	-0.4	79	0.00
108 TP	Hexachlorobutadiene	0.408	0.365	10.5	74	0.00
109 TP	1,2,4-Trichlorobenzene	0.884	0.909	-2.8	83	0.00
110 TP	Naphthalene	2.177	2.032	6.7	78	0.00
111 TP	1,2,3-Trichlorobenzene	0.848	0.790	6.8	78	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 5 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N01.D
 Acq On : 1 Oct 2020 5:38 pm
 Operator : CHARLIE:AD
 Sample : WG1417205-2
 Misc : WG1417205,ICAL17178
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 18:20:32 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\201001N\VC201001N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.032	96	153806	20.000	ug/L	0.00
Standard Area 1 = 153806			Recovery	=	100.00%	
59) Chlorobenzene-d5	9.566	117	132392	20.000	ug/L	0.00
Standard Area 1 = 132392			Recovery	=	100.00%	
79) 1,4-Dichlorobenzene-d4	12.256	152	78752	20.000	ug/L	0.00
Standard Area 1 = 78752			Recovery	=	100.00%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.225	113	40444	19.701	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	98.50%	
43) 1,2-Dichloroethane-d4	5.749	65	31515	17.814	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	89.07%	
60) Toluene-d8	7.721	98	155382	19.770	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	98.85%	
83) 4-Bromofluorobenzene	11.050	95	53000	19.804	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	99.02%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.639	85	83070	38.214	ug/L	100
3) Chloromethane	1.833	50	56176	37.228	ug/L	99
4) Vinyl chloride	1.901	62	149611	43.163	ug/L	99
5) Bromomethane	2.215	94	133824	46.797	ug/L	99
6) Chloroethane	2.331	64	195797	53.942	ug/L	100
7) Trichlorofluoromethane	2.467	101	368995	43.203	ug/L	100
8) Ethyl ether	2.771	74	40720	39.184	ug/L	85
10) 1,1-Dichloroethene	2.965	96	73478	42.715	ug/L	90
11) Carbon disulfide	2.997	76	164933	36.637	ug/L	99
12) Freon-113	3.007	101	72277	41.036	ug/L	82
14) Acrolein	3.285	56	7419	36.765	ug/L	96
15) Methylene chloride	3.521	84	83442	36.760	ug/L	95
17) Acetone	3.568	43	12173	30.591	ug/L	97
18) trans-1,2-Dichloroethene	3.678	96	85514	42.361	ug/L	89
19) Methyl acetate	3.684	43	31244	31.852	ug/L	# 90
20) Methyl tert-butyl ether	3.767	73	191176	34.295	ug/L	95
21) tert-Butyl alcohol	3.862	59	28126	131.137	ug/L	93
22) Diisopropyl ether	4.129	45	182857	33.687	ug/L	96
23) 1,1-Dichloroethane	4.260	63	123934	38.879	ug/L	99
24) Halothane	4.313	117	64765	38.891	ug/L	100
25) Acrylonitrile	4.307	53	15450	35.209	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N01.D
 Acq On : 1 Oct 2020 5:38 pm
 Operator : CHARLIE:AD
 Sample : WG1417205-2
 Misc : WG1417205, ICAL17178
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 18:20:32 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\201001N\VC201001N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.475	59	185710	32.674	ug/L	96
27) Vinyl acetate	4.491	43	123742	30.854	ug/L #	93
28) cis-1,2-Dichloroethene	4.785	96	94282	40.118	ug/L	92
29) 2,2-Dichloropropane	4.879	77	82746	29.609	ug/L	95
30) Bromochloromethane	4.973	128	47281	38.093	ug/L	93
31) Cyclohexane	4.973	56	96239	35.359	ug/L	88
32) Chloroform	5.047	83	142121	38.045	ug/L	99
33) Ethyl acetate	5.152	43	51948	34.918	ug/L	99
34) Carbon tetrachloride	5.178	117	109650	36.766	ug/L	98
35) Tetrahydrofuran	5.194	42	15441	32.456	ug/L	90
37) 1,1,1-Trichloroethane	5.246	97	117154	37.034	ug/L	97
39) 2-Butanone	5.335	43	20888	30.186	ug/L	93
40) 1,1-Dichloropropene	5.367	75	102985	39.560	ug/L	96
41) Benzene	5.613	78	323309	36.167	ug/L	98
42) tert-Amyl methyl ether	5.718	73	189944	30.794	ug/L	97
44) 1,2-Dichloroethane	5.817	62	90275	35.889	ug/L	98
47) Methyl cyclohexane	6.200	83	131141	36.511	ug/L	87
48) Trichloroethene	6.211	95	87517	38.226	ug/L	96
50) Dibromomethane	6.656	93	51460	38.332	ug/L	98
51) 1,2-Dichloropropane	6.751	63	73068	38.646	ug/L	97
53) 2-Chloroethyl vinyl ether	7.448	63	38455	36.809	ug/L #	93
54) Bromodichloromethane	6.829	83	107528	34.213	ug/L	100
57) 1,4-Dioxane	7.034	88	41446	1780.983	ug/L	92
58) cis-1,3-Dichloropropene	7.516	75	116153	33.793	ug/L	96
61) Toluene	7.778	92	212844	36.915	ug/L	99
62) 4-Methyl-2-pentanone	8.213	58	22057	35.646	ug/L	88
63) Tetrachloroethene	8.229	166	98887	36.429	ug/L	99
65) trans-1,3-Dichloropropene	8.271	75	91827	31.710	ug/L	95
67) Ethyl methacrylate	8.449	69	88494	33.884	ug/L	95
68) 1,1,2-Trichloroethane	8.449	83	60706	35.909	ug/L	96
69) Chlorodibromomethane	8.664	129	87179	32.228	ug/L	99
70) 1,3-Dichloropropane	8.774	76	117277	37.894	ug/L	99
71) 1,2-Dibromoethane	8.937	107	74071	37.959	ug/L	99
72) 2-Hexanone	9.220	43	35038	32.278	ug/L	95
73) Chlorobenzene	9.587	112	266185	34.050	ug/L	96
74) Ethylbenzene	9.619	91	416253	36.090	ug/L	98
75) 1,1,1,2-Tetrachloroethane	9.671	131	91579	32.440	ug/L	99
76) p/m Xylene	9.807	106	363042	70.338	ug/L	94
77) o Xylene	10.347	106	345462	68.883	ug/L	95
78) Styrene	10.416	104	602377	67.544	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N01.D
 Acq On : 1 Oct 2020 5:38 pm
 Operator : CHARLIE:AD
 Sample : WG1417205-2
 Misc : WG1417205,ICAL17178
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 18:20:32 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\201001N\VC201001N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.442	173	57222	30.271	ug/L	99
82)	Isopropylbenzene	10.725	105	448997	39.957	ug/L	100
84)	Bromobenzene	11.160	156	118084	37.999	ug/L	100
85)	n-Propylbenzene	11.202	91	531405	40.935	ug/L	98
86)	1,4-Dichlorobutane	11.223	55	89741	35.899	ug/L	100
87)	1,1,2,2-Tetrachloroethane	11.296	83	96176	39.059	ug/L	100
88)	4-Ethyltoluene	11.328	105	453279	40.470	ug/L	99
89)	2-Chlorotoluene	11.370	91	293218	38.875	ug/L	94
90)	1,3,5-Trimethylbenzene	11.422	105	389465	39.329	ug/L	97
91)	1,2,3-Trichloropropane	11.433	75	71848	37.016	ug/L	95
92)	trans-1,4-Dichloro-2-b...	11.485	53	17117	33.486	ug/L #	71
93)	4-Chlorotoluene	11.553	91	297920	38.554	ug/L	94
94)	tert-Butylbenzene	11.763	119	334501	39.263	ug/L	94
97)	1,2,4-Trimethylbenzene	11.842	105	381921	39.379	ug/L	98
98)	sec-Butylbenzene	11.952	105	505534	39.683	ug/L	98
99)	p-Isopropyltoluene	12.104	119	444474	39.324	ug/L	97
100)	1,3-Dichlorobenzene	12.177	146	241757	38.437	ug/L	98
101)	1,4-Dichlorobenzene	12.272	146	248292	38.374	ug/L	97
102)	p-Diethylbenzene	12.476	119	266495	40.283	ug/L	97
103)	n-Butylbenzene	12.534	91	384193	41.086	ug/L	98
104)	1,2-Dichlorobenzene	12.691	146	221186	37.585	ug/L	99
105)	1,2,4,5-Tetramethylben...	13.268	119	397977	38.517	ug/L	96
106)	1,2-Dibromo-3-chloropr...	13.462	155	15251	31.528	ug/L	93
107)	1,3,5-Trichlorobenzene	13.498	180	161712	40.141	ug/L	97
108)	Hexachlorobutadiene	14.065	225	57464	35.802	ug/L	99
109)	1,2,4-Trichlorobenzene	14.091	180	143142	41.132	ug/L	97
110)	Naphthalene	14.379	128	320000	37.325	ug/L	100
111)	1,2,3-Trichlorobenzene	14.552	180	124366	37.255	ug/L	98

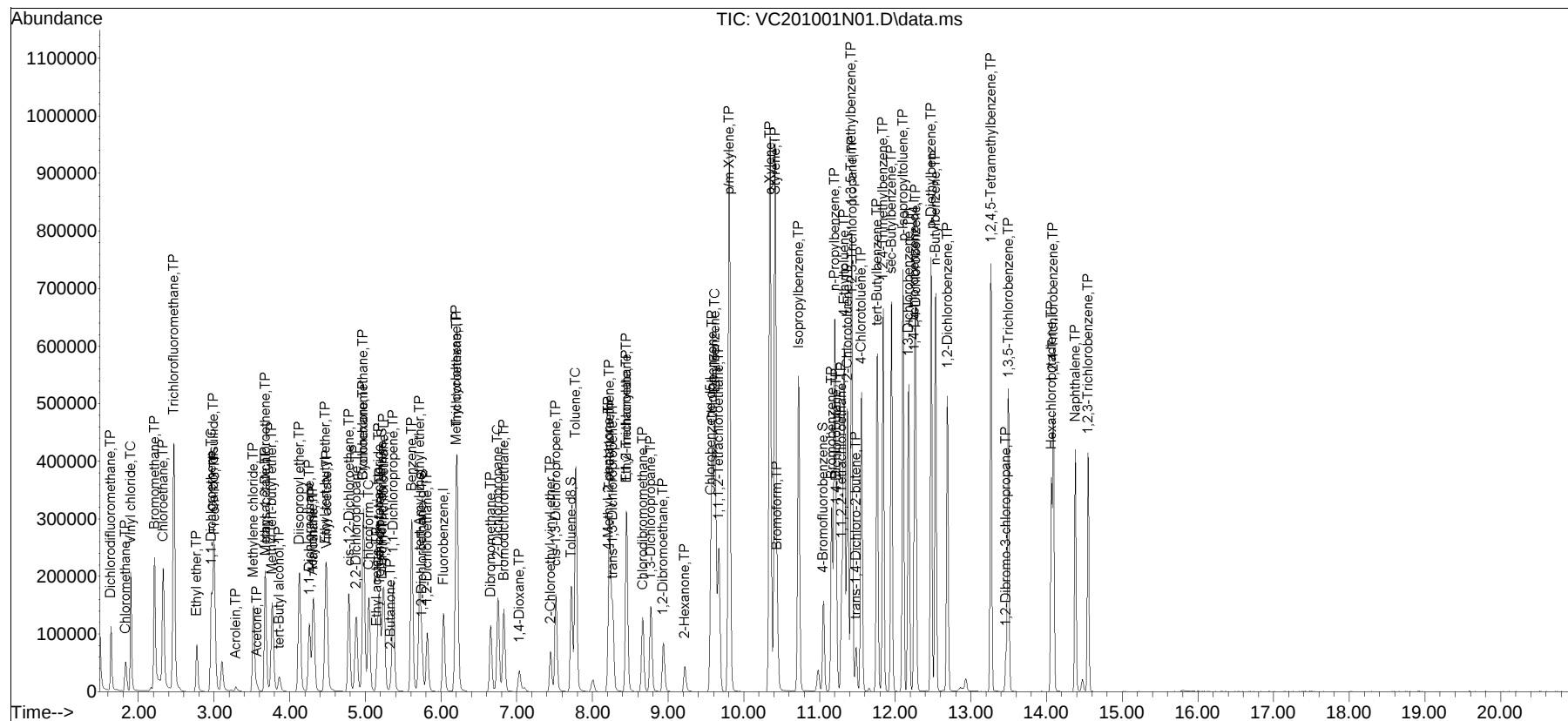
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N01.D
 Acq On : 1 Oct 2020 5:38 pm
 Operator : CHARLIE:AD
 Sample : WG1417205-2
 Misc : WG1417205,ICAL17178
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 18:20:32 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox01N\VC201001N01.D•



Manual Integration Report

Data Path	: I:\VOLATILES\Charlie\2020\QMethod	: C_200925A_8260.m
Data File	: VC201001N01.D	Operator : CHARLIE:AD
Date Inj'd	: 10/1/2020 5:38 pm	Instrument : Charlie
Sample	: WG1417205-2	Quant Date : 10/1/2020 6:20 pm

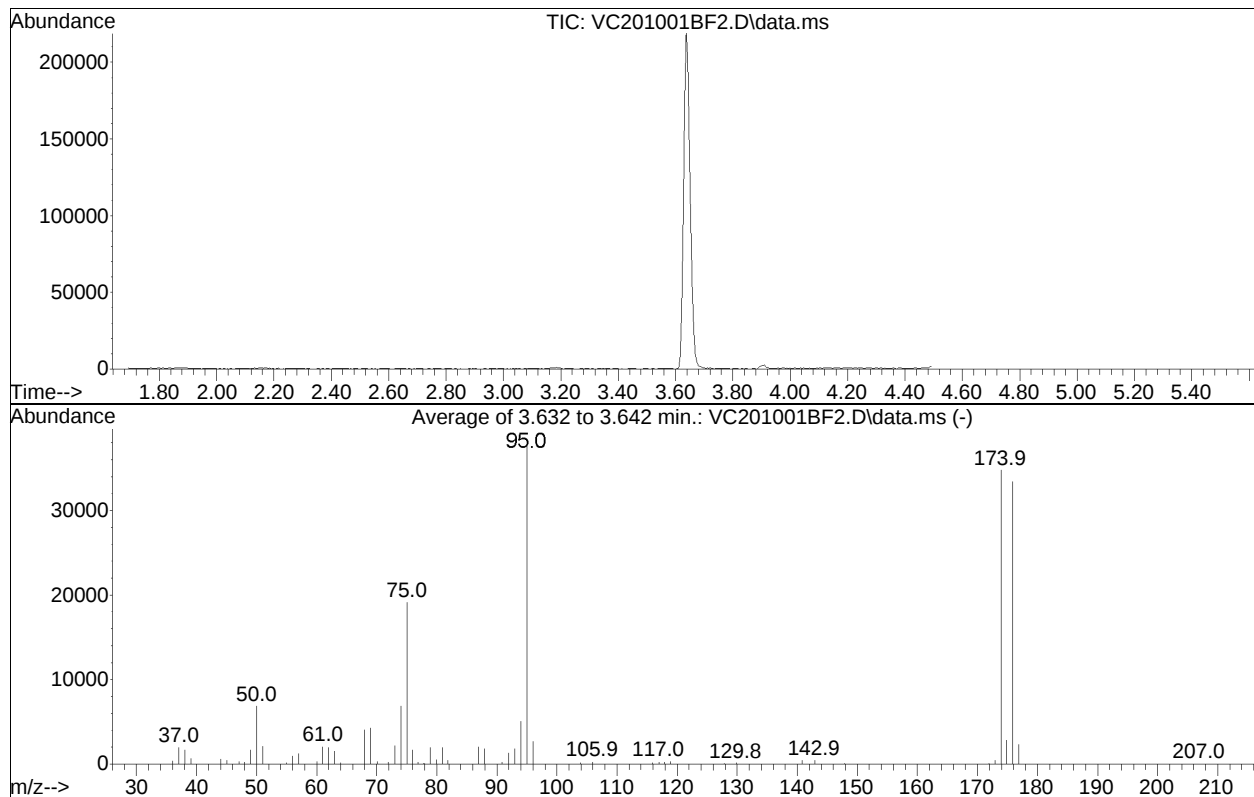
There are no manual integrations or false positives in this file.

BFB

Data Path : I:\VOLATILES\Charlie\2020\201001N\
Data File : VC201001BF2.D
Acq On : 1 Oct 2020 5:15 pm
Operator : CHARLIE:AD
Sample : WG1417205-1
Misc : WG1417205,ICAL17178
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Tue Sep 29 14:02:31 2020



Spectrum Information: Average of 3.632 to 3.642 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.2	6862	PASS
75	95	30	60	50.7	19152	PASS
95	95	100	100	100.0	37795	PASS
96	95	5	9	7.1	2675	PASS
173	174	0.00	2	1.2	431	PASS
174	95	50	100	92.1	34808	PASS
175	174	5	9	8.2	2862	PASS
176	174	95	101	96.0	33419	PASS
177	176	5	9	7.0	2341	PASS

Volatiles Raw QC Data

Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N04.D
 Acq On : 1 Oct 2020 6:59 pm
 Operator : CHARLIE:AD
 Sample : WG1417205-5,31,5,5
 Misc : WG1417205,ICAL17178
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 02 08:57:52 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\201001N\VC201001N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.038	96	135682	20.000	ug/L	0.00
Standard Area 1 = 153806			Recovery =	88.22%		
59) Chlorobenzene-d5	9.566	117	112741	20.000	ug/L	0.00
Standard Area 1 = 132392			Recovery =	85.16%		
79) 1,4-Dichlorobenzene-d4	12.256	152	61476	20.000	ug/L	0.00
Standard Area 1 = 78752			Recovery =	78.06%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.225	113	33773	18.649	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	93.25%		
43) 1,2-Dichloroethane-d4	5.755	65	27717	17.760	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	88.80%		
60) Toluene-d8	7.726	98	137821	20.593	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	102.96%		
83) 4-Bromofluorobenzene	11.055	95	43458	20.802	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	104.01%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D. d		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.221	94	3155M1	1.251	ug/L	
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D. d		
15) Methylene chloride	3.521	84	2194	1.096	ug/L	96
17) Acetone	3.579	43	53	Below Cal	#	43
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N04.D
 Acq On : 1 Oct 2020 6:59 pm
 Operator : CHARLIE:AD
 Sample : WG1417205-5,31,5,5
 Misc : WG1417205,ICAL17178
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 02 08:57:52 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\201001N\VC201001N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	0.000		0		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.566	91	50		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	11.061	91	57		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	0.000		0		N.D.	
89) 2-Chlorotoluene	0.000		0		N.D.	
90) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	0.000		0		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	

Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N04.D
 Acq On : 1 Oct 2020 6:59 pm
 Operator : CHARLIE:AD
 Sample : WG1417205-5,31,5,5
 Misc : WG1417205,ICAL17178
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 02 08:57:52 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\201001N\VC201001N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	0.000		0		N.D.	
98)	sec-Butylbenzene	0.000		0		N.D.	
99)	p-Isopropyltoluene	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	12.272	146	61		N.D.	
101)	1,4-Dichlorobenzene	12.272	146	61		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
105)	1,2,4,5-Tetramethylben...	13.278	119	267		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	14.112	180	50		N.D.	
110)	Naphthalene	14.395	128	1279	0.191	ug/L	100
111)	1,2,3-Trichlorobenzene	14.558	180	254		N.D.	

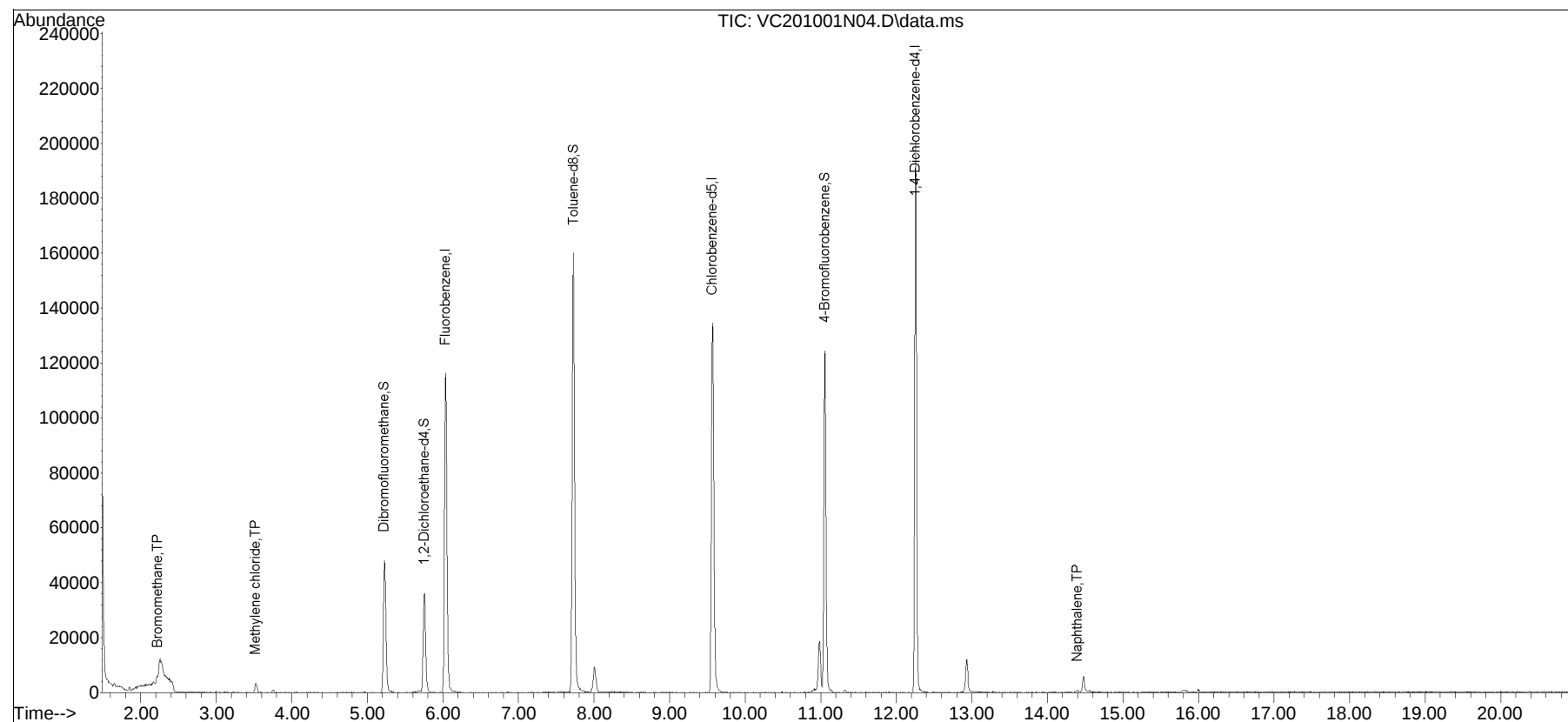
(#) = qualifier out of range (m) = manual integration (+) = signals summed

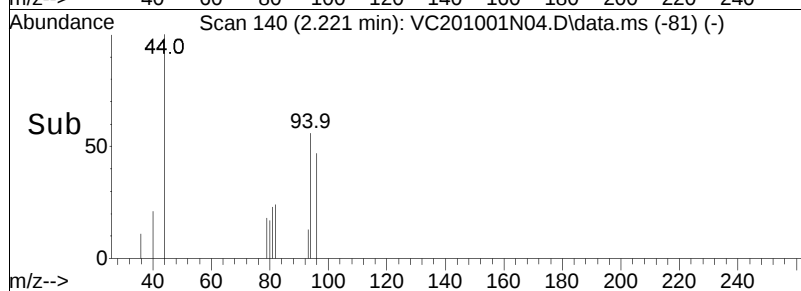
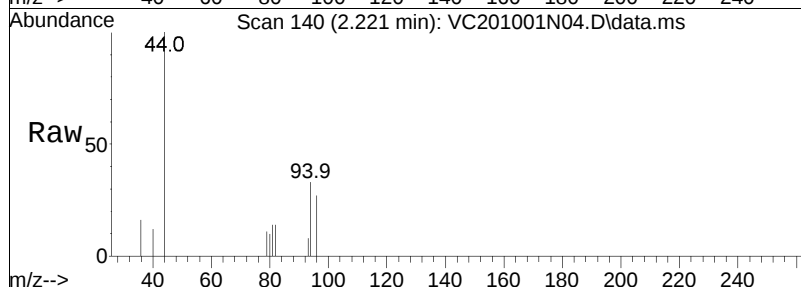
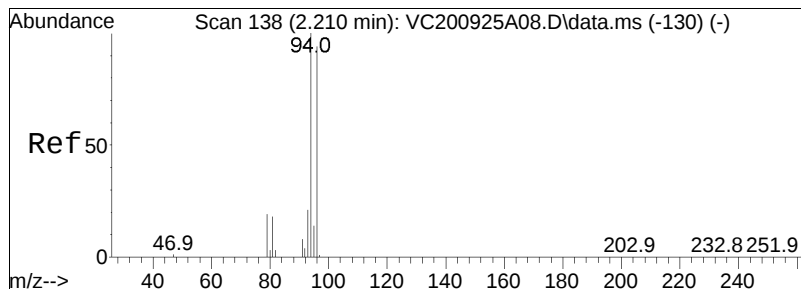
Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N04.D
 Acq On : 1 Oct 2020 6:59 pm
 Operator : CHARLIE:AD
 Sample : WG1417205-5,31,5,5
 Misc : WG1417205,ICAL17178
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 02 08:57:52 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

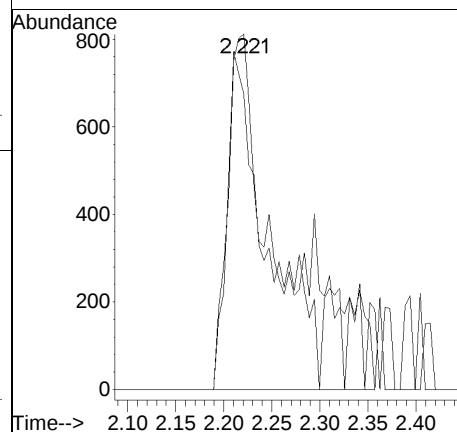
Sub List : 8260-CurveSoil - Megamix plus Diox01N\VC201001N01.D•

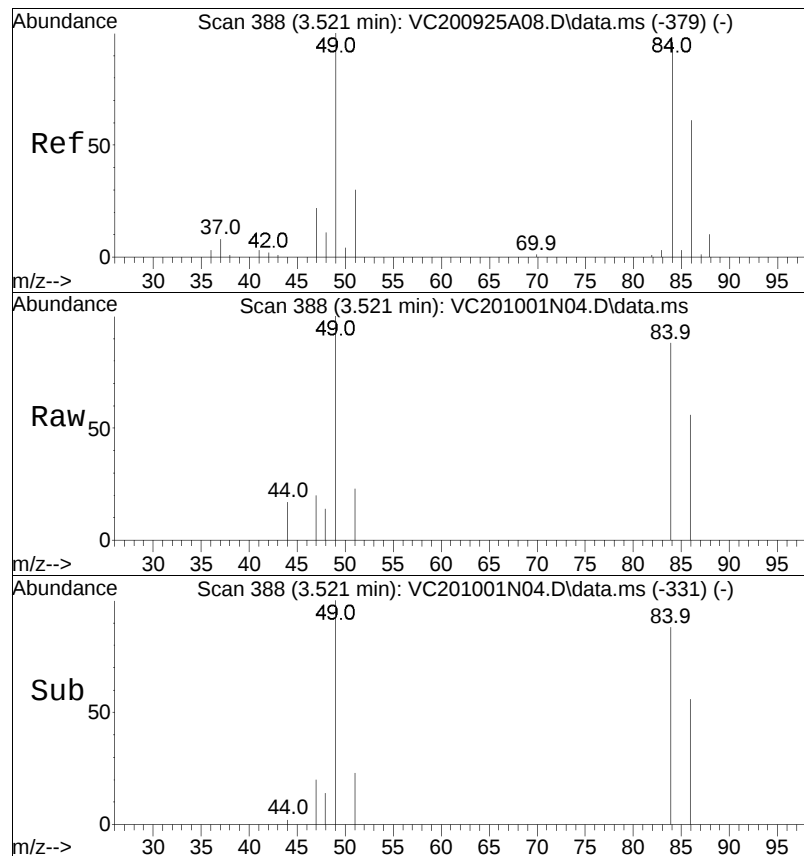




#5
 Bromomethane
 Concen: 1.25 ug/L M1
 RT: 2.221 min Scan# 140
 Delta R.T. 0.011 min
 Lab File: VC201001N04.D
 Acq: 1 Oct 2020 6:59 pm

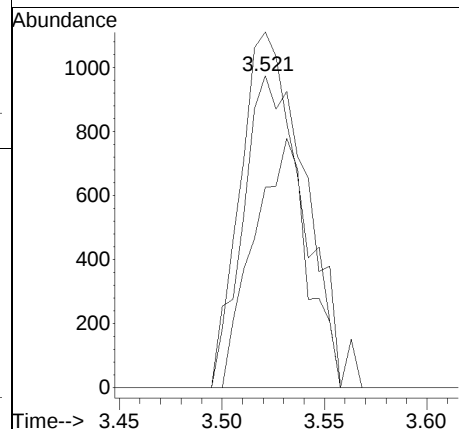
Tgt Ion: 94 Resp: 3155
 Ion Ratio Lower Upper
 94 100
 96 57.4 73.8 113.8#

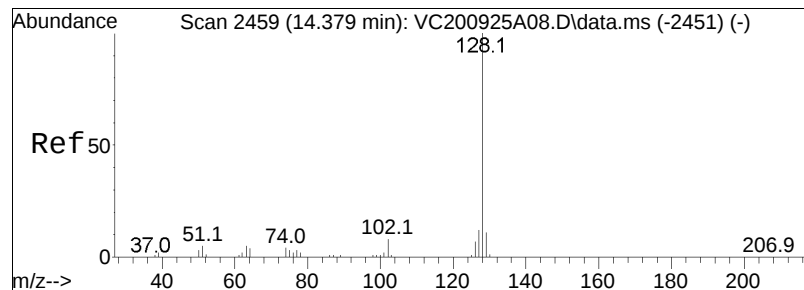




#15
 Methylene chloride
 Concen: 1.10 ug/L
 RT: 3.521 min Scan# 388
 Delta R.T. 0.000 min
 Lab File: VC201001N04.D
 Acq: 1 Oct 2020 6:59 pm

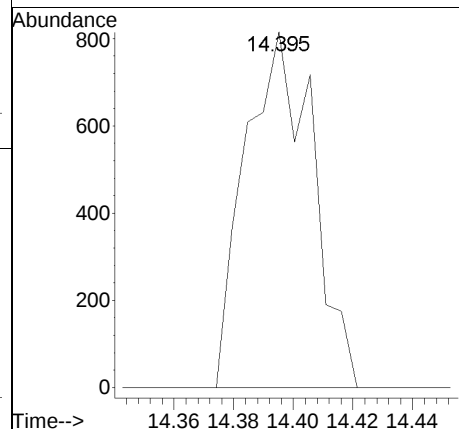
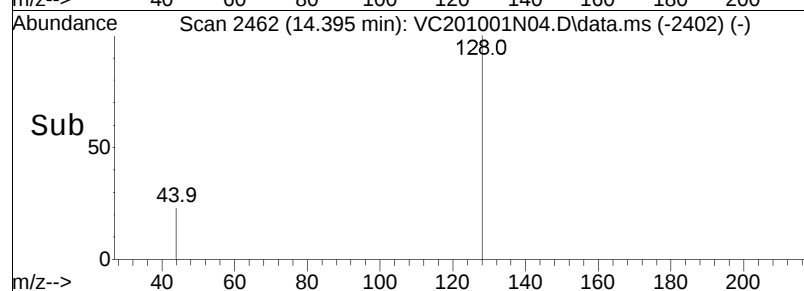
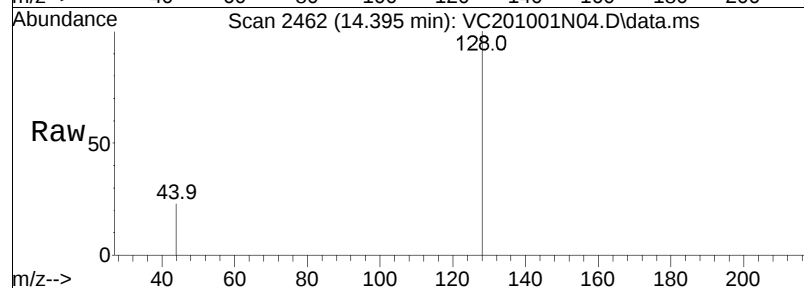
Tgt Ion	Ratio	Lower	Upper
84	100		
86	64.8	41.9	86.9
49	101.8	70.3	146.1





#110
Naphthalene
Concen: 0.19 ug/L
RT: 14.395 min Scan# 2462
Delta R.T. 0.016 min
Lab File: VC201001N04.D
Acq: 1 Oct 2020 6:59 pm

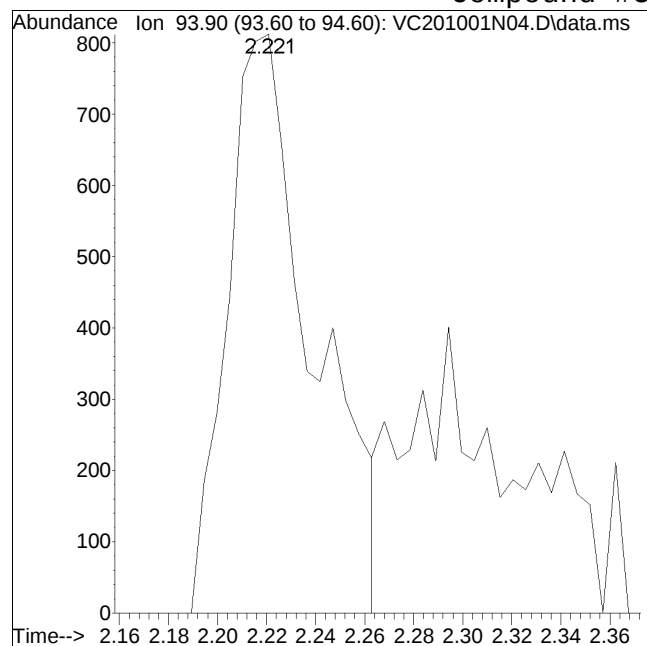
Tgt Ion:128 Resp: 1279



Manual Integration Report

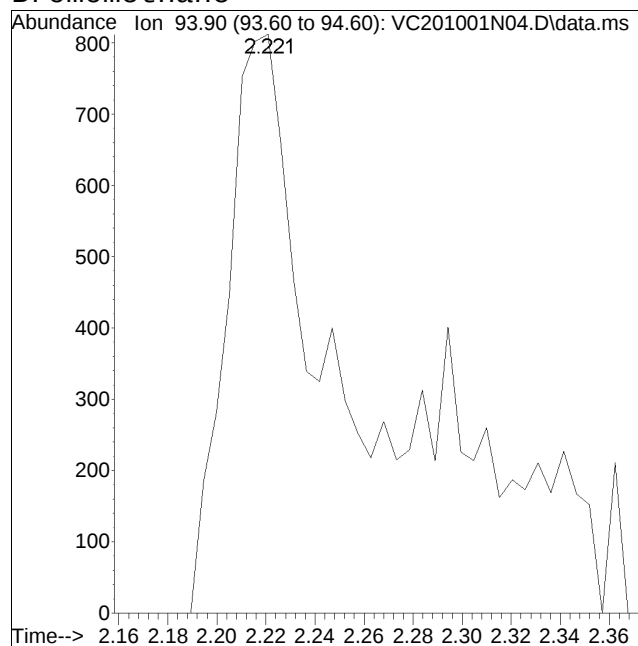
Data Path : I:\VOLATILES\Charlie\2020\QMethod : C_200925A_8260.m
Data File : VC201001N04.D Operator : CHARLIE:AD
Date Inj'd : 10/1/2020 6:59 pm Instrument : Charlie
Sample : WG1417205-5,31,5,5 Quant Date : 10/1/2020 7:57 pm

Compound #5: Bromomethane



Original Peak Response = 1963

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 3155 M1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N01.D
 Acq On : 1 Oct 2020 5:38 pm
 Operator : CHARLIE:AD
 Sample : WG1417205-3,31,5,5
 Misc : WG1417205,ICAL17178
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 18:20:32 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\201001N\VC201001N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.032	96	153806	20.000	ug/L	0.00
Standard Area 1 = 153806			Recovery	=	100.00%	
59) Chlorobenzene-d5	9.566	117	132392	20.000	ug/L	0.00
Standard Area 1 = 132392			Recovery	=	100.00%	
79) 1,4-Dichlorobenzene-d4	12.256	152	78752	20.000	ug/L	0.00
Standard Area 1 = 78752			Recovery	=	100.00%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.225	113	40444	19.701	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	98.50%	
43) 1,2-Dichloroethane-d4	5.749	65	31515	17.814	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	89.07%	
60) Toluene-d8	7.721	98	155382	19.770	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	98.85%	
83) 4-Bromofluorobenzene	11.050	95	53000	19.804	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	99.02%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.639	85	83070	38.214	ug/L	100
3) Chloromethane	1.833	50	56176	37.228	ug/L	99
4) Vinyl chloride	1.901	62	149611	43.163	ug/L	99
5) Bromomethane	2.215	94	133824	46.797	ug/L	99
6) Chloroethane	2.331	64	195797	53.942	ug/L	100
7) Trichlorofluoromethane	2.467	101	368995	43.203	ug/L	100
8) Ethyl ether	2.771	74	40720	39.184	ug/L	85
10) 1,1-Dichloroethene	2.965	96	73478	42.715	ug/L	90
11) Carbon disulfide	2.997	76	164933	36.637	ug/L	99
15) Methylene chloride	3.521	84	83442	36.760	ug/L	95
17) Acetone	3.568	43	12173	30.591	ug/L	97
18) trans-1,2-Dichloroethene	3.678	96	85514	42.361	ug/L	89
20) Methyl tert-butyl ether	3.767	73	191176	34.295	ug/L	95
23) 1,1-Dichloroethane	4.260	63	123934	38.879	ug/L	99
25) Acrylonitrile	4.307	53	15450	35.209	ug/L	96
27) Vinyl acetate	4.491	43	123742	30.854	ug/L	# 93
28) cis-1,2-Dichloroethene	4.785	96	94282	40.118	ug/L	92
29) 2,2-Dichloropropane	4.879	77	82746	29.609	ug/L	95
30) Bromochloromethane	4.973	128	47281	38.093	ug/L	93
32) Chloroform	5.047	83	142121	38.045	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N01.D
 Acq On : 1 Oct 2020 5:38 pm
 Operator : CHARLIE:AD
 Sample : WG1417205-3,31,5,5
 Misc : WG1417205,ICAL17178
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 18:20:32 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\201001N\VC201001N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	5.178	117	109650	36.766	ug/L	98
37) 1,1,1-Trichloroethane	5.246	97	117154	37.034	ug/L	97
39) 2-Butanone	5.335	43	20888	30.186	ug/L	93
40) 1,1-Dichloropropene	5.367	75	102985	39.560	ug/L	96
41) Benzene	5.613	78	323309	36.167	ug/L	98
44) 1,2-Dichloroethane	5.817	62	90275	35.889	ug/L	98
48) Trichloroethene	6.211	95	87517	38.226	ug/L	96
50) Dibromomethane	6.656	93	51460	38.332	ug/L	98
51) 1,2-Dichloropropane	6.751	63	73068	38.646	ug/L	97
54) Bromodichloromethane	6.829	83	107528	34.213	ug/L	100
57) 1,4-Dioxane	7.034	88	41446	1780.983	ug/L	92
58) cis-1,3-Dichloropropene	7.516	75	116153	33.793	ug/L	96
61) Toluene	7.778	92	212844	36.915	ug/L	99
62) 4-Methyl-2-pentanone	8.213	58	22057	35.646	ug/L	88
63) Tetrachloroethene	8.229	166	98887	36.429	ug/L	99
65) trans-1,3-Dichloropropene	8.271	75	91827	31.710	ug/L	95
68) 1,1,2-Trichloroethane	8.449	83	60706	35.909	ug/L	96
69) Chlorodibromomethane	8.664	129	87179	32.228	ug/L	99
70) 1,3-Dichloropropane	8.774	76	117277	37.894	ug/L	99
71) 1,2-Dibromoethane	8.937	107	74071	37.959	ug/L	99
72) 2-Hexanone	9.220	43	35038	32.278	ug/L	95
73) Chlorobenzene	9.587	112	266185	34.050	ug/L	96
74) Ethylbenzene	9.619	91	416253	36.090	ug/L	98
75) 1,1,1,2-Tetrachloroethane	9.671	131	91579	32.440	ug/L	99
76) p/m Xylene	9.807	106	363042	70.338	ug/L	94
77) o Xylene	10.347	106	345462	68.883	ug/L	95
78) Styrene	10.416	104	602377	67.544	ug/L	94
80) Bromoform	10.442	173	57222	30.271	ug/L	99
82) Isopropylbenzene	10.725	105	448997	39.957	ug/L	100
84) Bromobenzene	11.160	156	118084	37.999	ug/L	100
85) n-Propylbenzene	11.202	91	531405	40.935	ug/L	98
87) 1,1,2,2-Tetrachloroethane	11.296	83	96176	39.059	ug/L	100
88) 4-Ethyltoluene	11.328	105	453279	40.470	ug/L	99
89) 2-Chlorotoluene	11.370	91	293218	38.875	ug/L	94
90) 1,3,5-Trimethylbenzene	11.422	105	389465	39.329	ug/L	97
91) 1,2,3-Trichloropropane	11.433	75	71848	37.016	ug/L	95
92) trans-1,4-Dichloro-2-b...	11.485	53	17117	33.486	ug/L #	71
93) 4-Chlorotoluene	11.553	91	297920	38.554	ug/L	94
94) tert-Butylbenzene	11.763	119	334501	39.263	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N01.D
 Acq On : 1 Oct 2020 5:38 pm
 Operator : CHARLIE:AD
 Sample : WG1417205-3,31,5,5
 Misc : WG1417205,ICAL17178
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 18:20:32 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\201001N\VC201001N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	11.842	105	381921	39.379	ug/L	98
98)	sec-Butylbenzene	11.952	105	505534	39.683	ug/L	98
99)	p-Isopropyltoluene	12.104	119	444474	39.324	ug/L	97
100)	1,3-Dichlorobenzene	12.177	146	241757	38.437	ug/L	98
101)	1,4-Dichlorobenzene	12.272	146	248292	38.374	ug/L	97
102)	p-Diethylbenzene	12.476	119	266495	40.283	ug/L	97
103)	n-Butylbenzene	12.534	91	384193	41.086	ug/L	98
104)	1,2-Dichlorobenzene	12.691	146	221186	37.585	ug/L	99
105)	1,2,4,5-Tetramethylben...	13.268	119	397977	38.517	ug/L	96
106)	1,2-Dibromo-3-chloropr...	13.462	155	15251	31.528	ug/L	93
108)	Hexachlorobutadiene	14.065	225	57464	35.802	ug/L	99
109)	1,2,4-Trichlorobenzene	14.091	180	143142	41.132	ug/L	97
110)	Naphthalene	14.379	128	320000	37.325	ug/L	100
111)	1,2,3-Trichlorobenzene	14.552	180	124366	37.255	ug/L	98

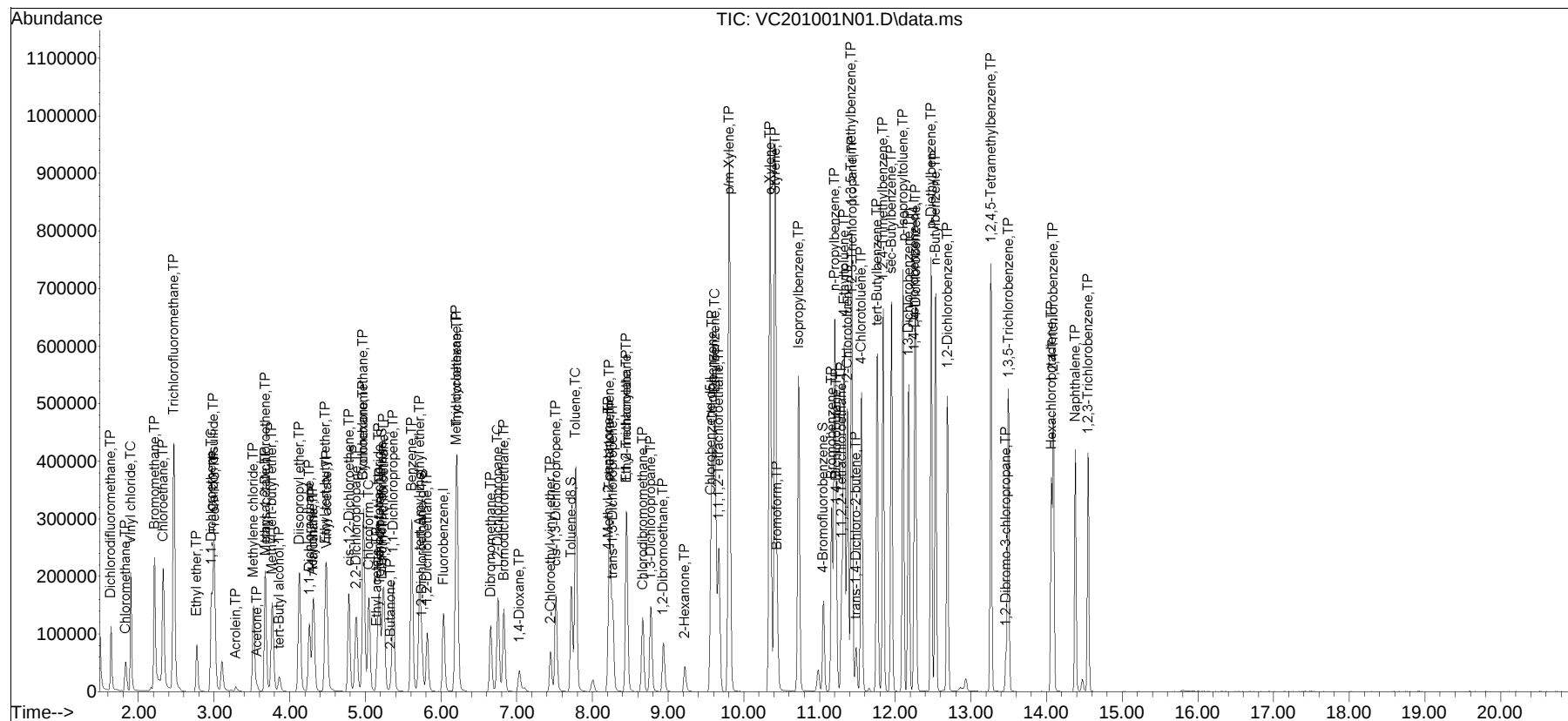
(#) = qualifier out of range (m) = manual integration (+) = signals summed

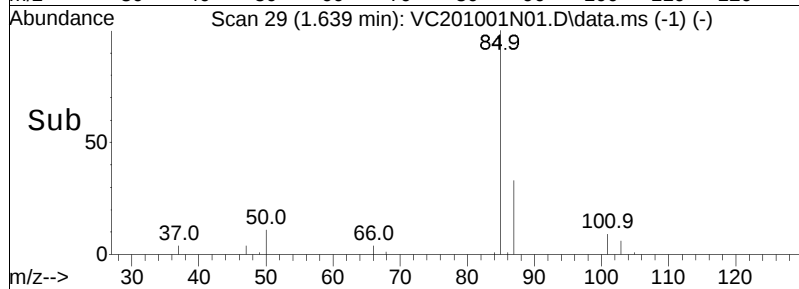
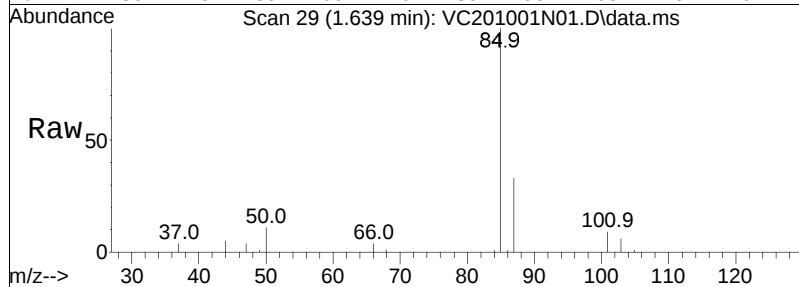
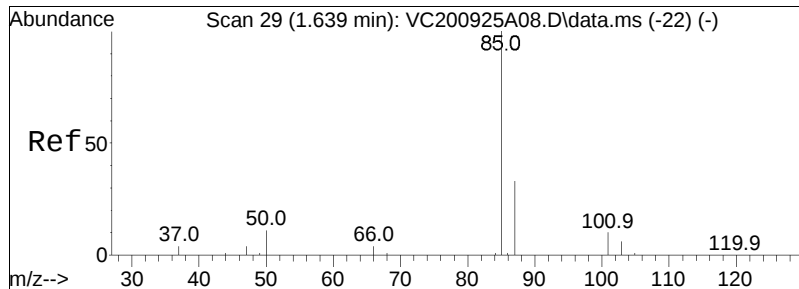
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N01.D
 Acq On : 1 Oct 2020 5:38 pm
 Operator : CHARLIE:AD
 Sample : WG1417205-3,31,5,5
 Misc : WG1417205,ICAL17178
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 18:20:32 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

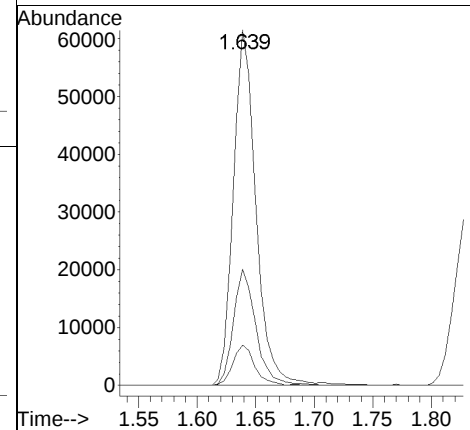
Sub List : 8260-CurveSoil - Megamix plus Diox01N\VC201001N01.D•

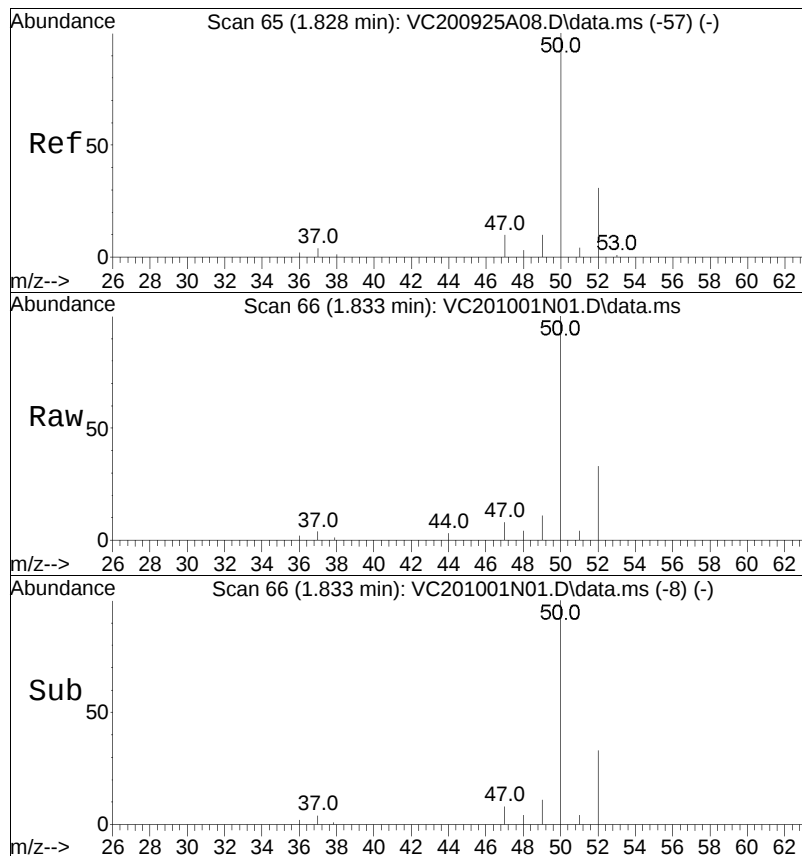




#2
 Dichlorodifluoromethane
 Concen: 38.21 ug/L
 RT: 1.639 min Scan# 29
 Delta R.T. -0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

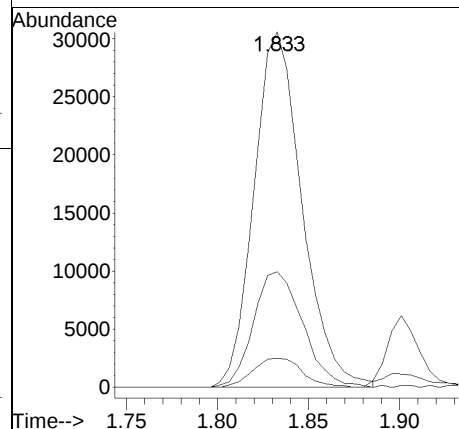
Tgt Ion	85	87	50	Ratio	100	32.4	11.1	Resp:	83070	Lower	21.0	Upper	43.6	14.4
85	100													
87		32.4												
50			11.1											

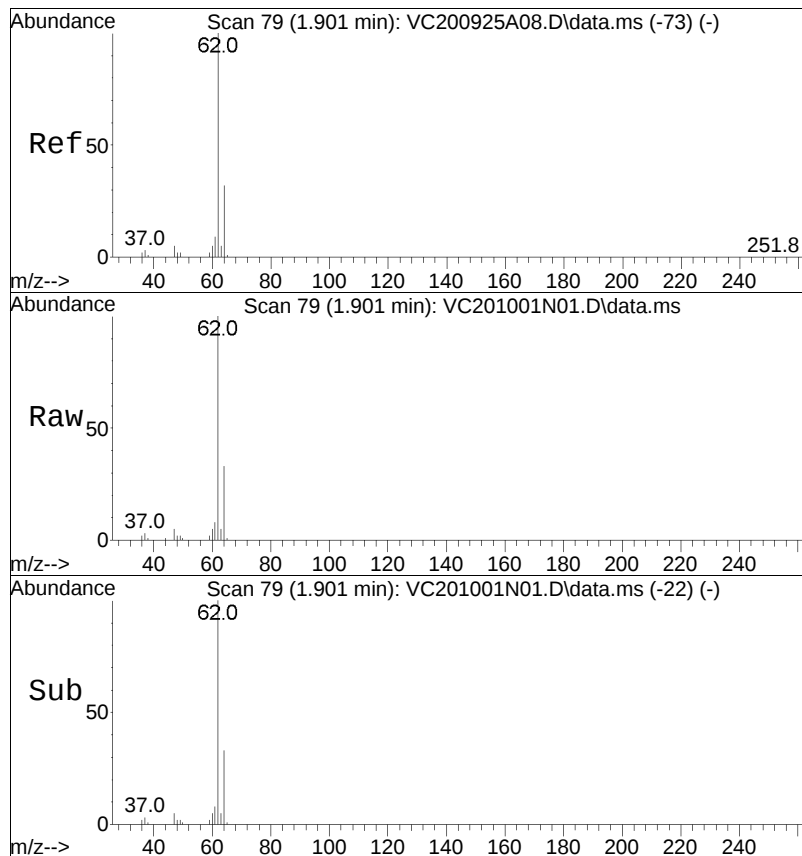




#3
 Chloromethane
 Concen: 37.23 ug/L
 RT: 1.833 min Scan# 66
 Delta R.T. 0.005 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

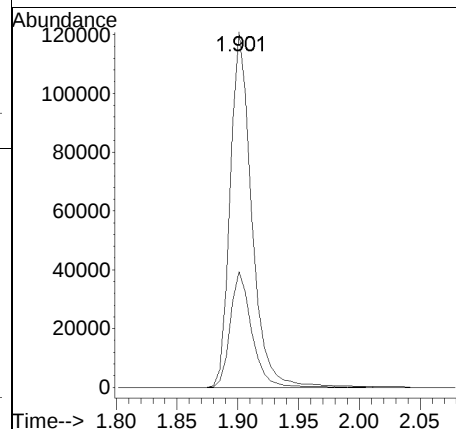
Tgt	Ion: 50	Resp:	56176
Ion	Ratio	Lower	Upper
50	100		
52	33.4	13.6	53.6
47	8.6	0.0	28.0

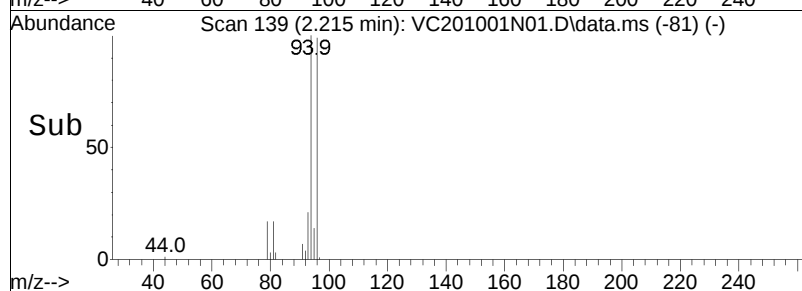
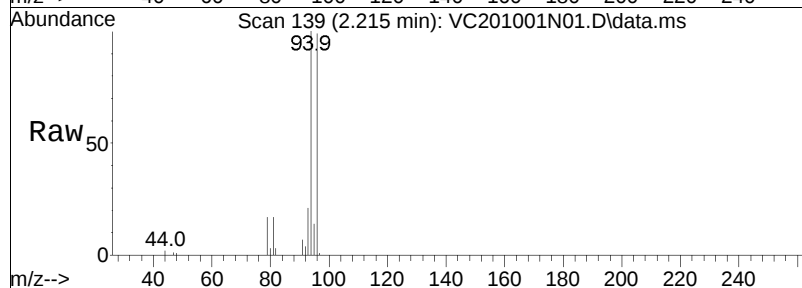
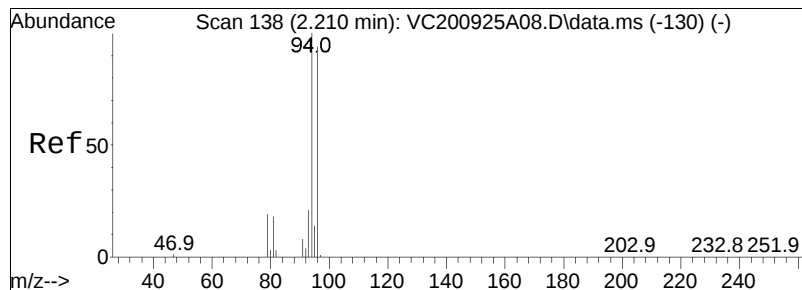




#4
 Vinyl chloride
 Concen: 43.16 ug/L
 RT: 1.901 min Scan# 79
 Delta R.T. -0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

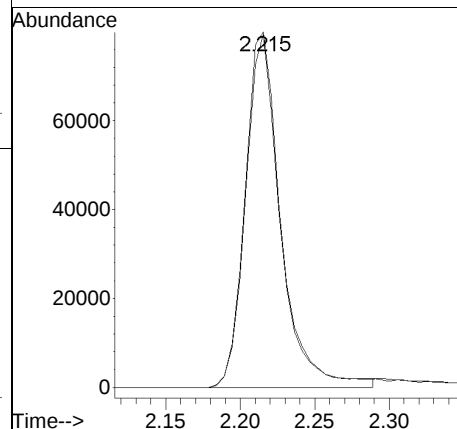
Tgt Ion	Ratio	Lower	Upper
62	100		
64	32.4	11.7	51.7

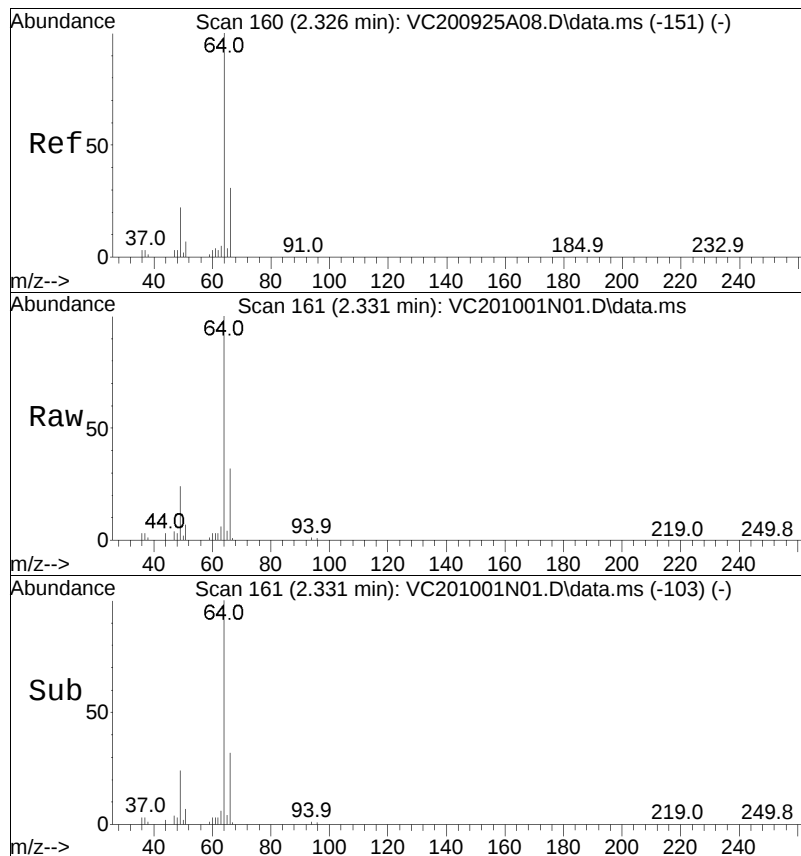




#5
 Bromomethane
 Concen: 46.80 ug/L
 RT: 2.215 min Scan# 139
 Delta R.T. 0.005 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

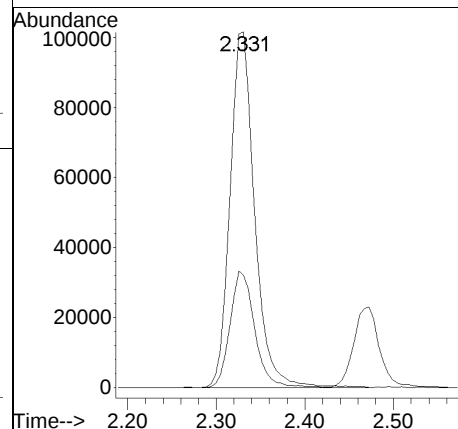
Tgt Ion	Ratio	Lower	Upper
94	100		
96	94.7	73.8	113.8

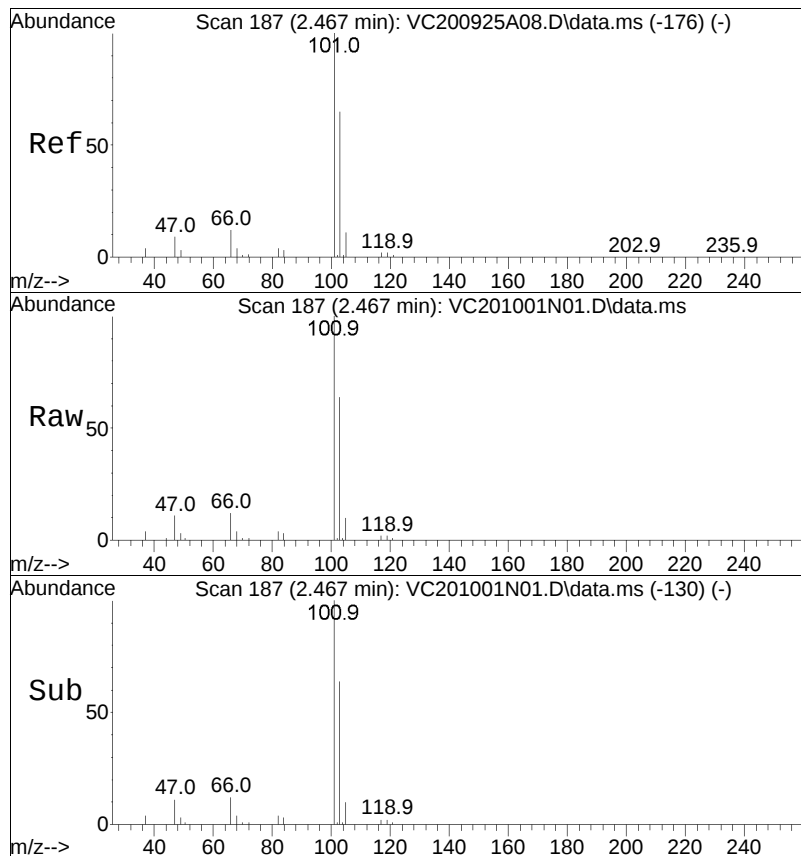




#6
 Chloroethane
 Concen: 53.94 ug/L
 RT: 2.331 min Scan# 161
 Delta R.T. 0.005 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

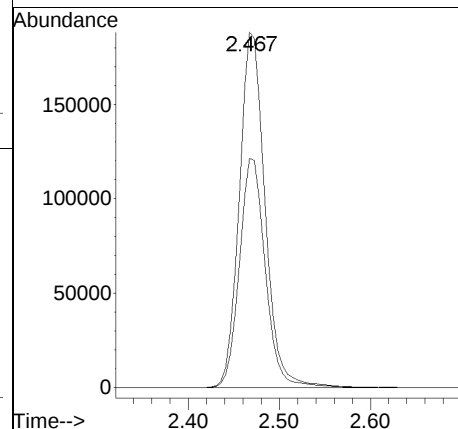
Tgt Ion	Ratio	Lower	Upper
64	100		
66	32.6	12.5	52.5

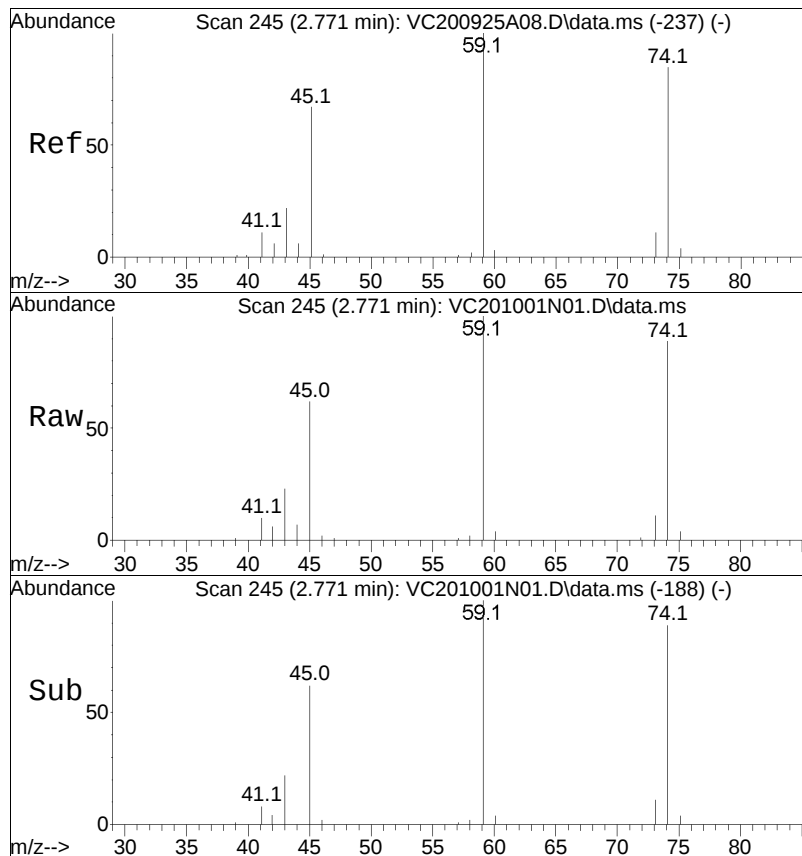




#7
 Trichlorofluoromethane
 Concen: 43.20 ug/L
 RT: 2.467 min Scan# 187
 Delta R.T. 0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

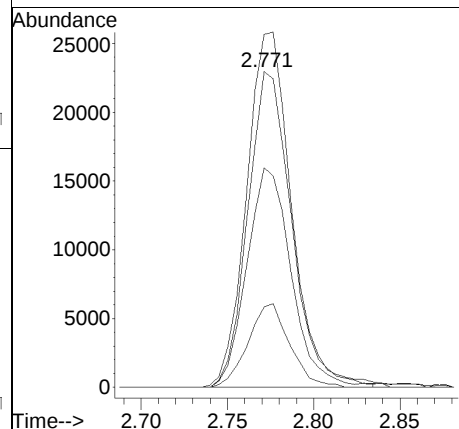
Tgt	Ion	Ratio	Lower	Upper
101	101	100		
103	65.0	51.7	77.5	

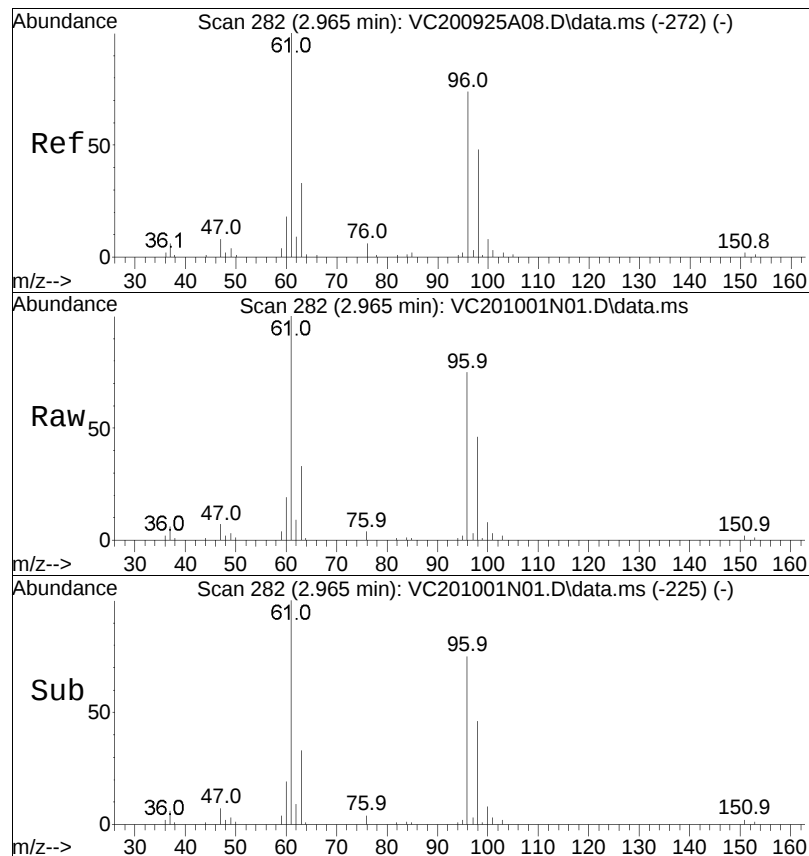




#8
 Ethyl ether
 Concen: 39.18 ug/L
 RT: 2.771 min Scan# 245
 Delta R.T. 0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

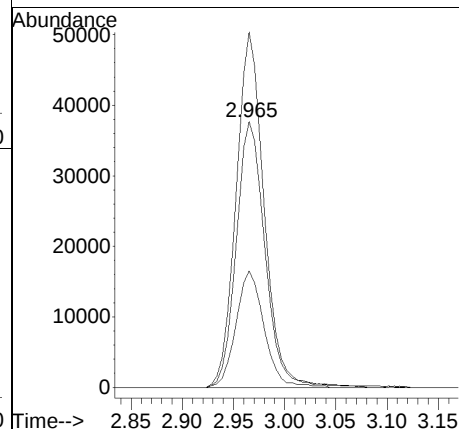
Tgt Ion: 74	Resp: 40720
Ion Ratio	Lower Upper
74 100	
59 116.5	83.4 173.2
45 70.1	60.1 124.7
43 25.1	18.2 37.8

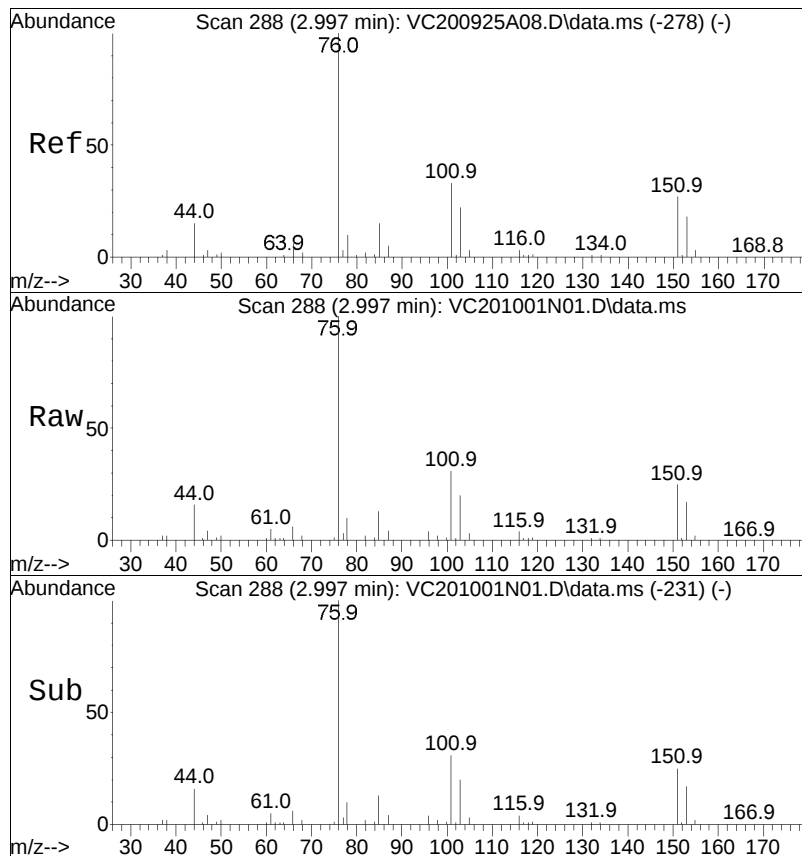




#10
 1,1-Dichloroethene
 Concen: 42.71 ug/L
 RT: 2.965 min Scan# 282
 Delta R.T. 0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

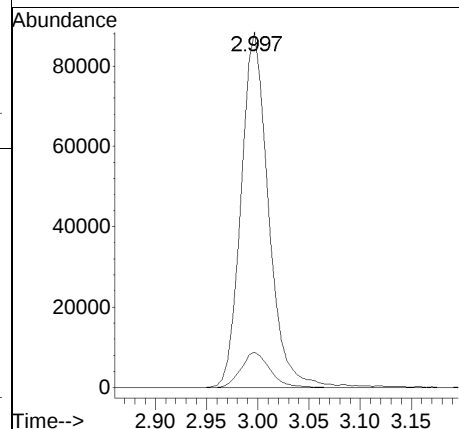
Tgt Ion	Ratio	Lower	Upper
96	100		
61	130.3	116.1	174.1
63	43.0	37.4	56.0

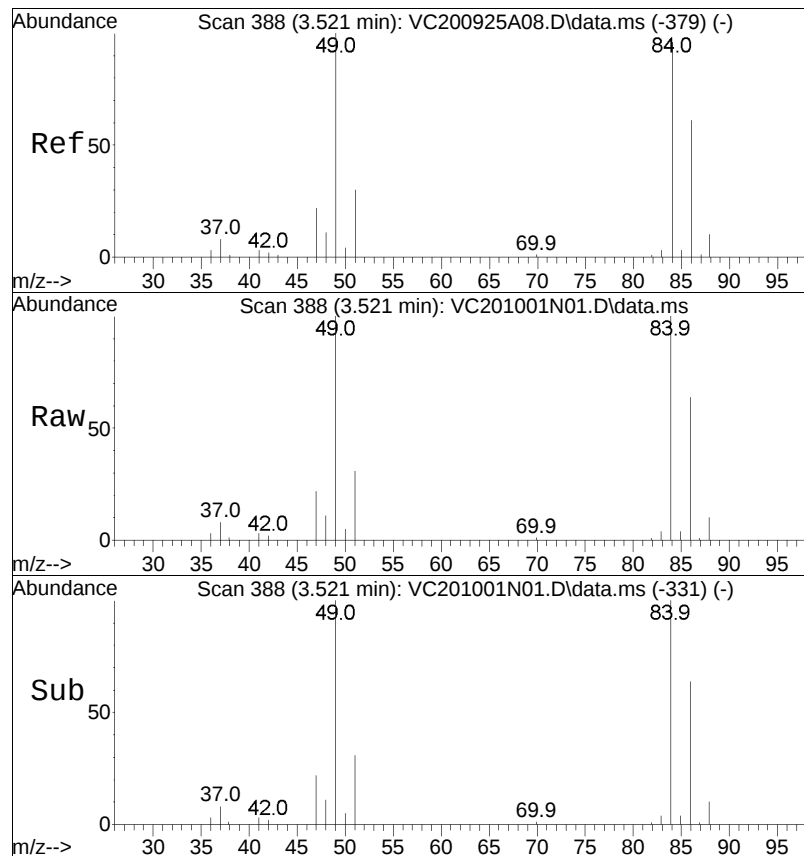




#11
Carbon disulfide
Concen: 36.64 ug/L
RT: 2.997 min Scan# 288
Delta R.T. -0.000 min
Lab File: VC201001N01.D
Acq: 1 Oct 2020 5:38 pm

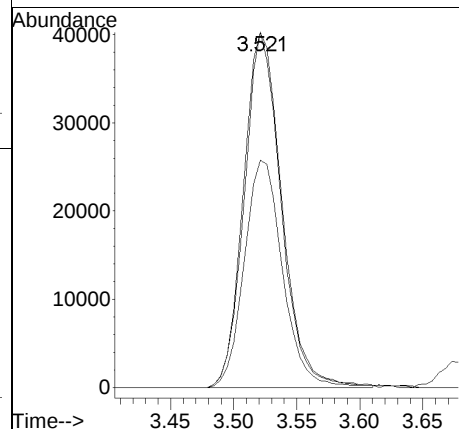
Tgt Ion: 76 Resp: 164933
Ion Ratio Lower Upper
76 100
78 10.3 6.5 13.5

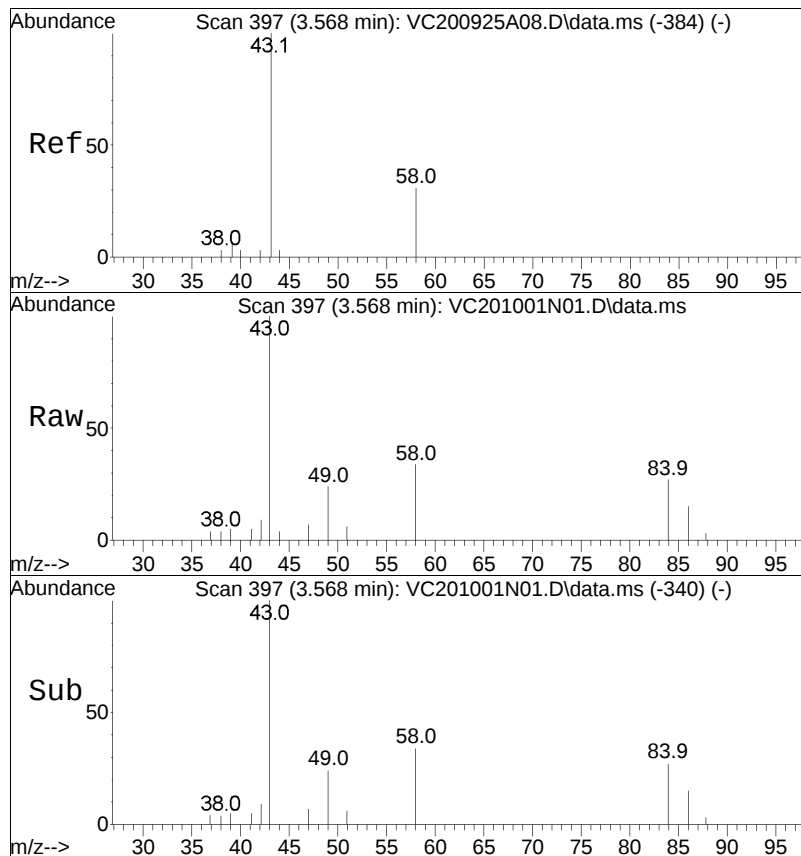




#15
 Methylene chloride
 Concen: 36.76 ug/L
 RT: 3.521 min Scan# 388
 Delta R.T. -0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

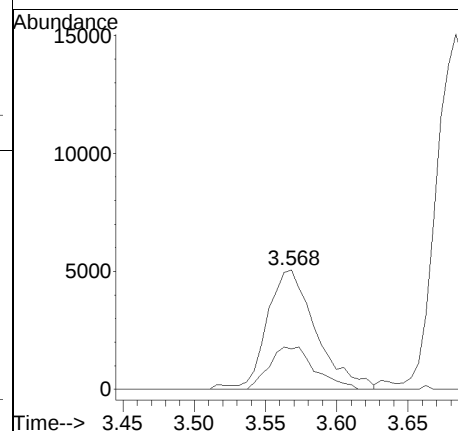
Tgt Ion	Ratio	Lower	Upper
84	100		
86	65.1	41.9	86.9
49	100.4	70.3	146.1

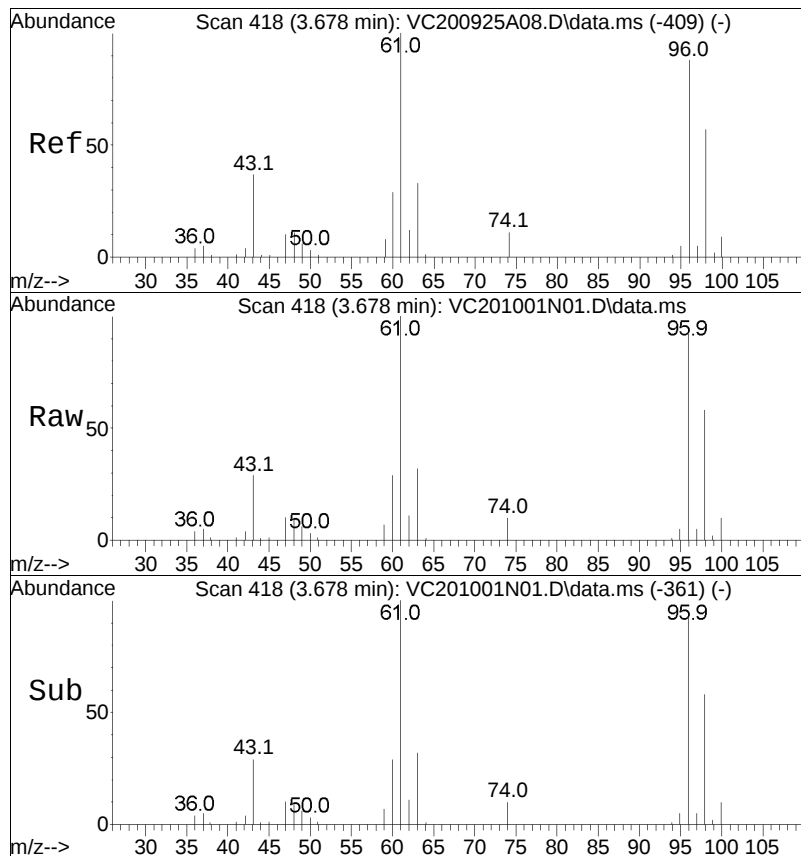




#17
 Acetone
 Concen: 30.59 ug/L
 RT: 3.568 min Scan# 397
 Delta R.T. 0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

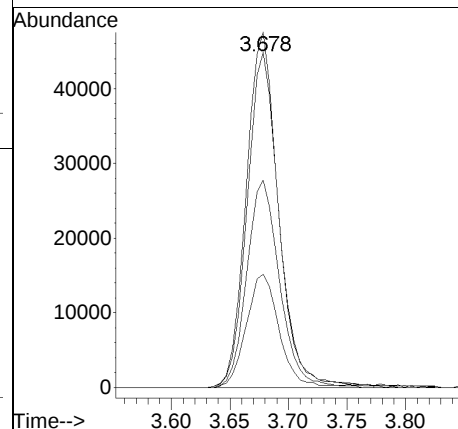
Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.2	25.4	38.2

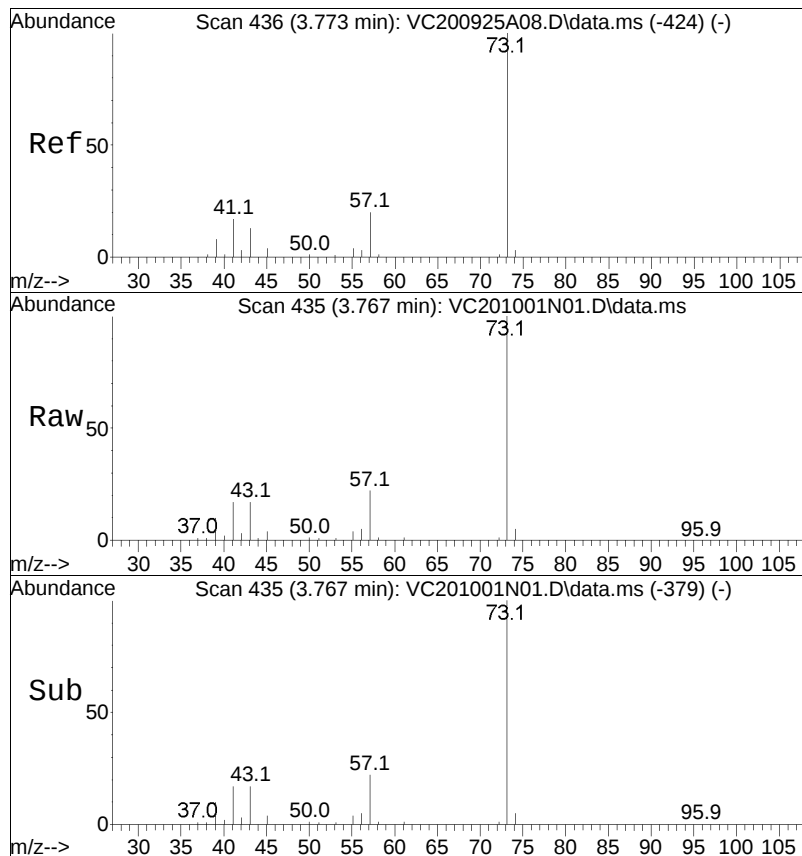




#18
 trans-1,2-Dichloroethene
 Concen: 42.36 ug/L
 RT: 3.678 min Scan# 418
 Delta R.T. 0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

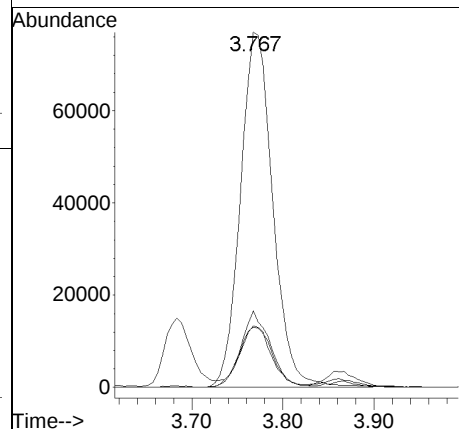
Tgt Ion:	96	Resp:	85514
Ion Ratio	Lower	Upper	
96	100		
61	106.9	81.6	169.4
98	62.9	41.5	86.1
63	34.7	26.1	54.1

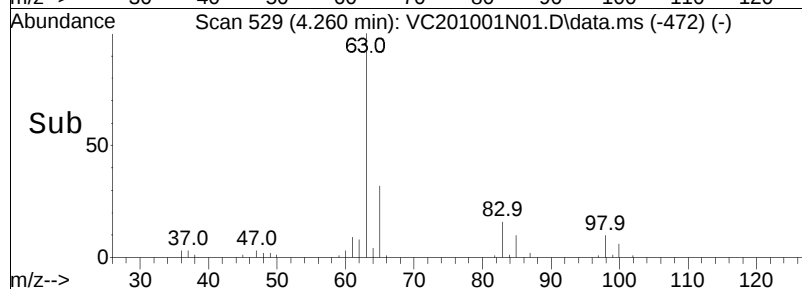
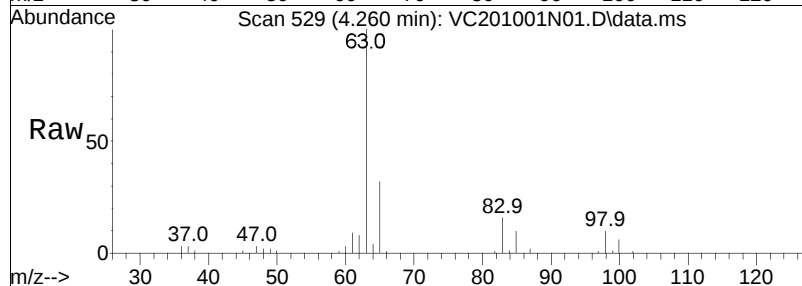
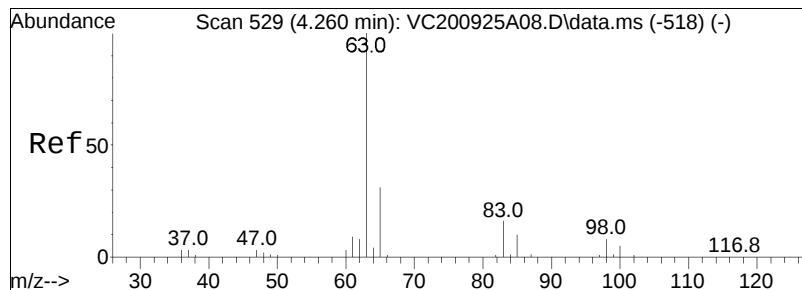




#20
Methyl tert-butyl ether
Concen: 34.29 ug/L
RT: 3.767 min Scan# 435
Delta R.T. -0.006 min
Lab File: VC201001N01.D
Acq: 1 Oct 2020 5:38 pm

Tgt Ion:	73	Resp:	191176
Ion Ratio	Lower	Upper	
73	100		
57	19.7	13.3	27.7
43	17.3	13.0	27.0
41	17.5	13.5	28.1





#23

1,1-Dichloroethane

Concen: 38.88 ug/L

RT: 4.260 min Scan# 529

Delta R.T. 0.000 min

Lab File: VC201001N01.D

Acq: 1 Oct 2020 5:38 pm

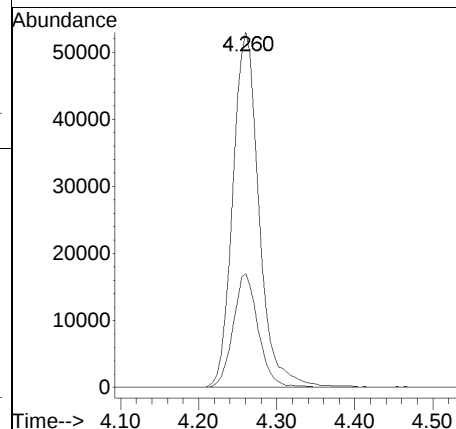
Tgt Ion: 63 Resp: 123934

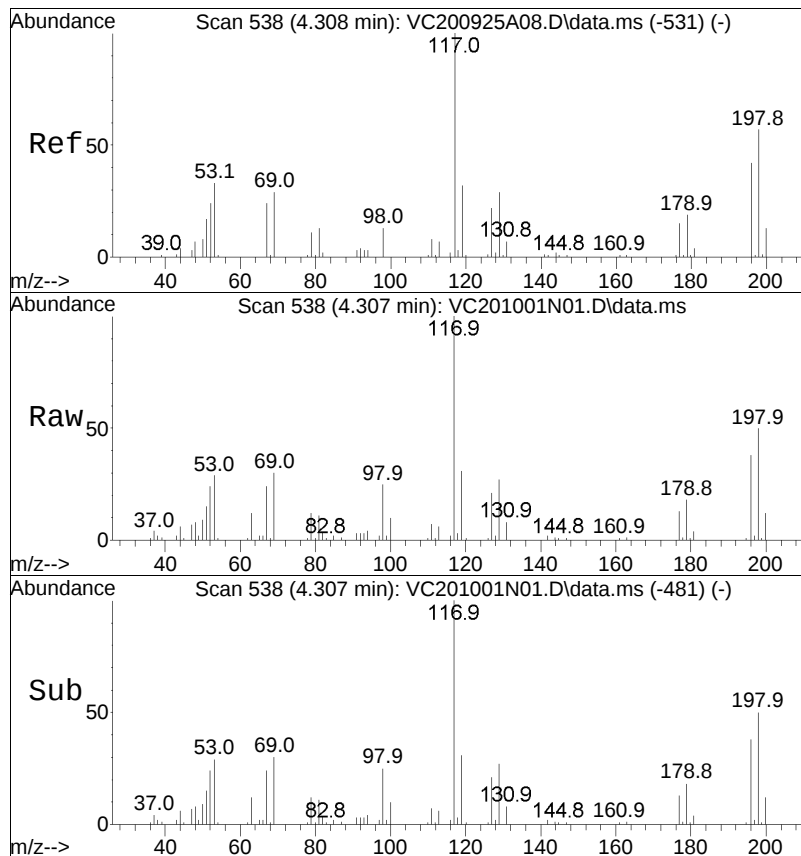
Ion Ratio Lower Upper

63 100

65 30.6 11.2 51.2

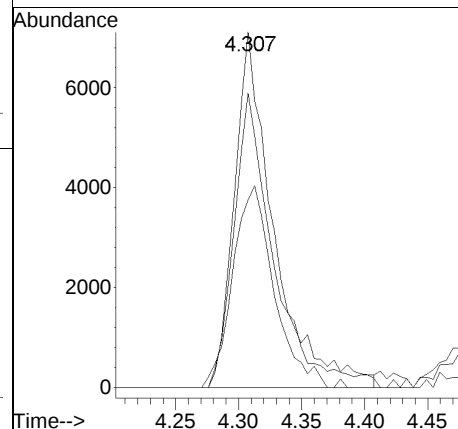
65 30.6 11.2 51.2

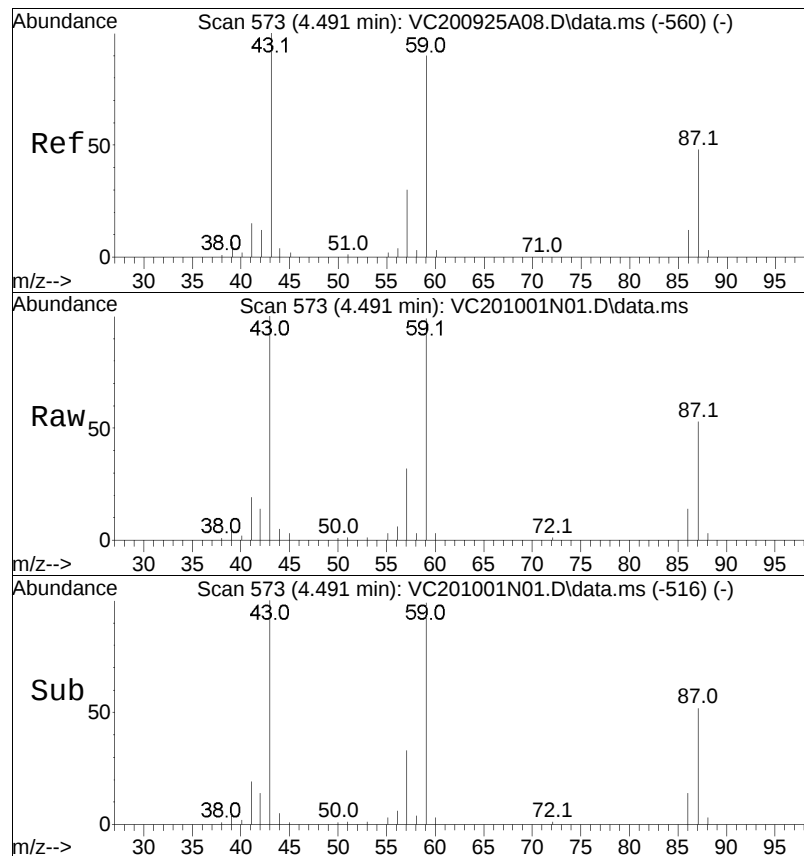




#25
 Acrylonitrile
 Concen: 35.21 ug/L
 RT: 4.307 min Scan# 538
 Delta R.T. -0.001 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

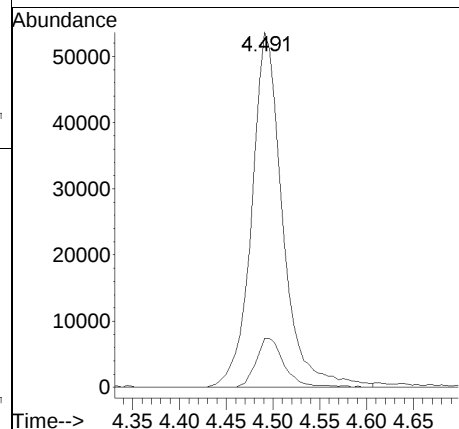
Tgt	Ion	Resp	Lower	Upper
53	100			
52	83.4	67.8	101.6	
51	59.3	42.2	63.4	

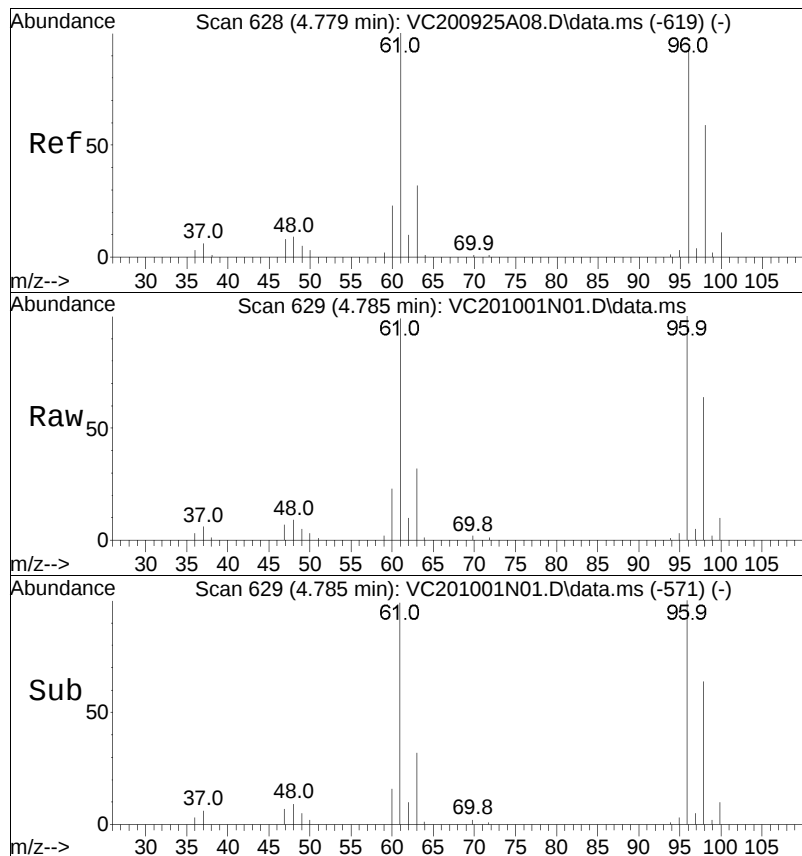




#27
 Vinyl acetate
 Concen: 30.85 ug/L
 RT: 4.491 min Scan# 573
 Delta R.T. -0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

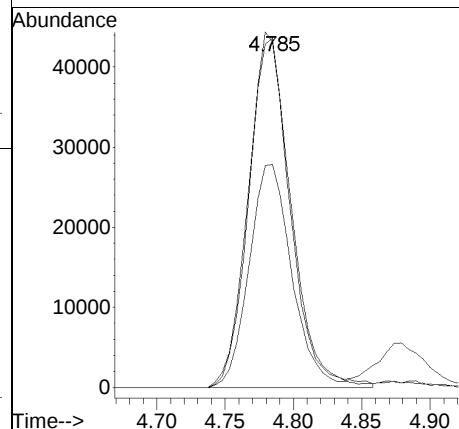
Tgt Ion	Ratio	Lower	Upper
43	100		
86	12.7	8.1	12.1#

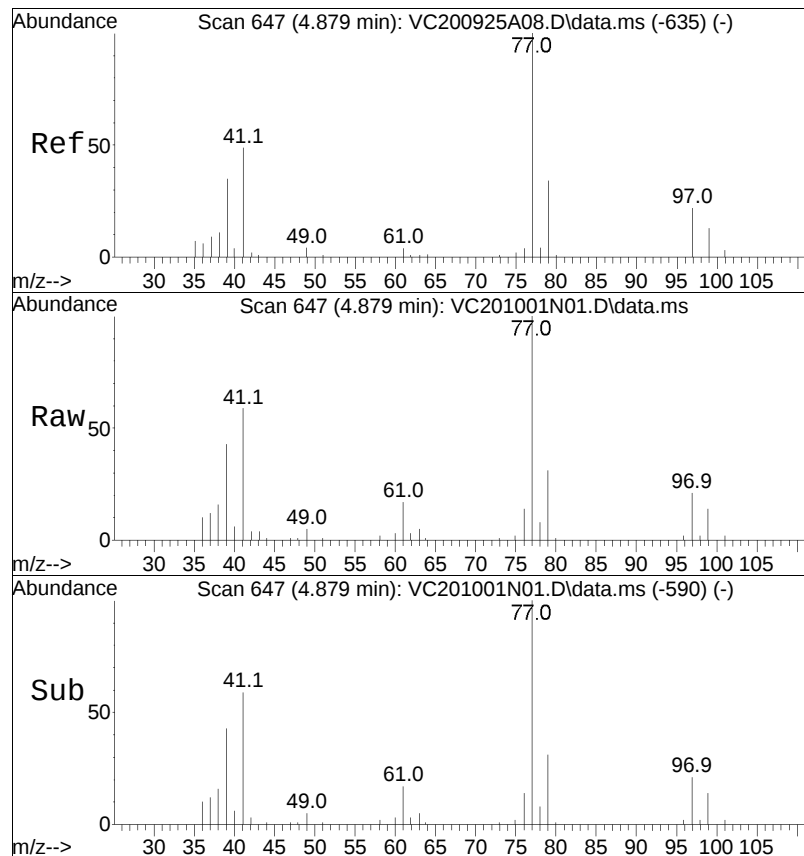




#28
 cis-1,2-Dichloroethene
 Concen: 40.12 ug/L
 RT: 4.785 min Scan# 629
 Delta R.T. 0.006 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

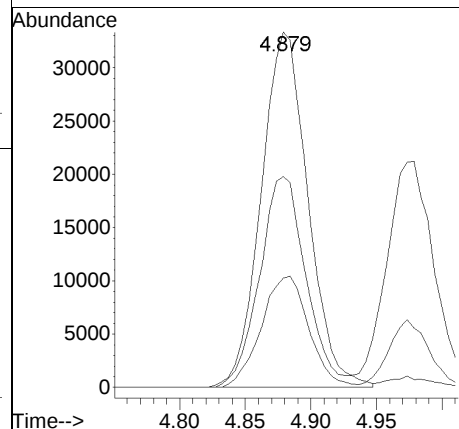
Tgt Ion	Ratio	Lower	Upper
96	100		
61	98.9	89.6	134.4
98	64.7	51.5	77.3

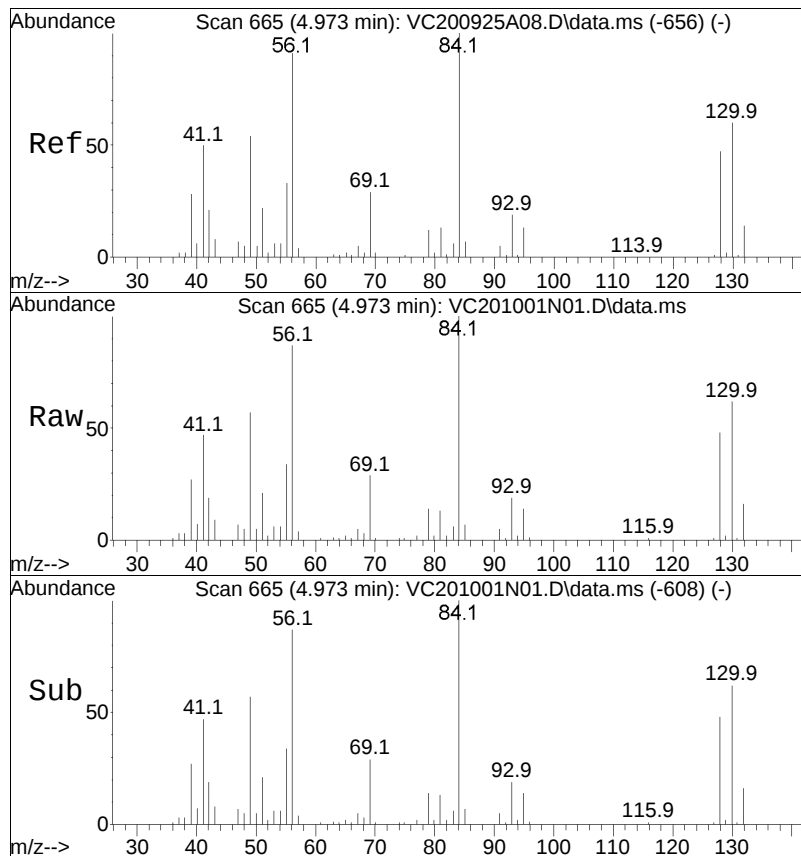




#29
 2,2-Dichloropropane
 Concen: 29.61 ug/L
 RT: 4.879 min Scan# 647
 Delta R.T. -0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

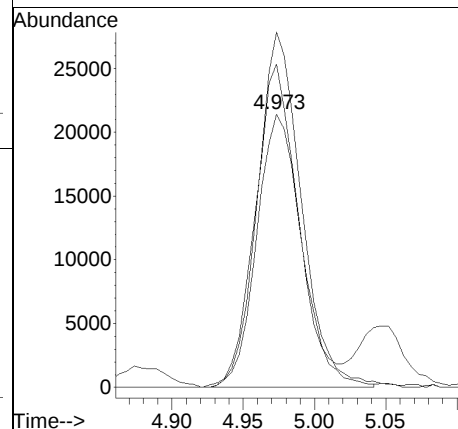
Tgt Ion	Ratio	Lower	Upper
77	100		
41	58.7	34.6	72.0
79	31.9	20.9	43.3

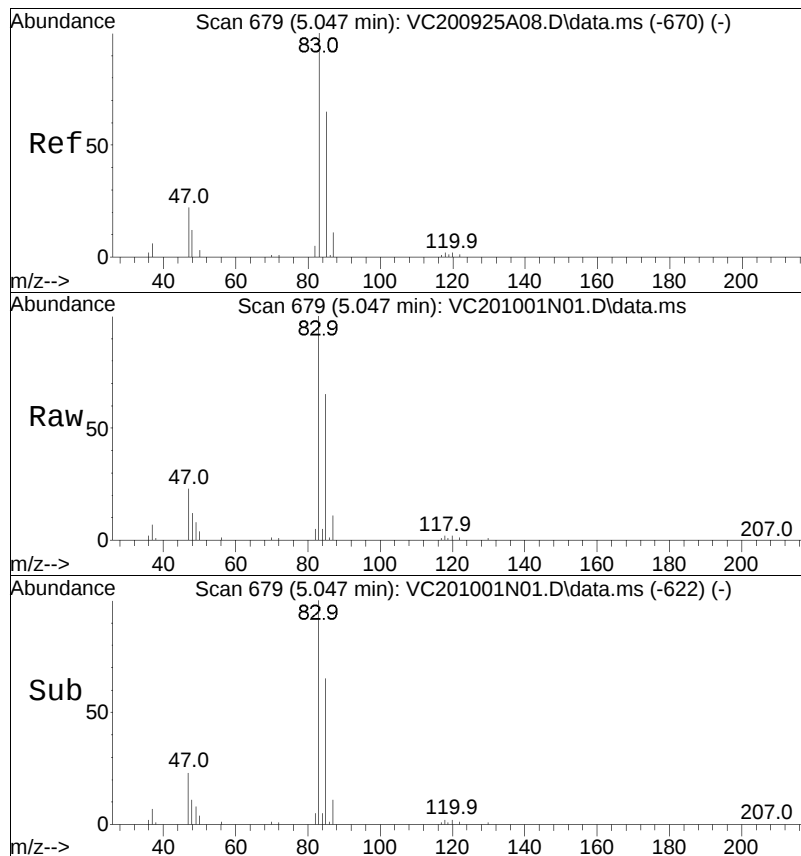




#30
 Bromochloromethane
 Concen: 38.09 ug/L
 RT: 4.973 min Scan# 665
 Delta R.T. 0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

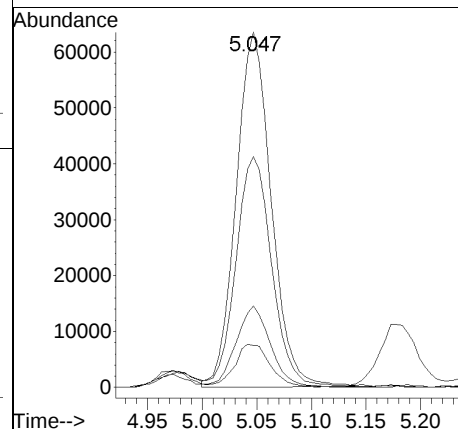
Tgt Ion	Ratio	Lower	Upper
128	100		
49	112.4	100.6	150.8
130	126.9	104.4	156.6

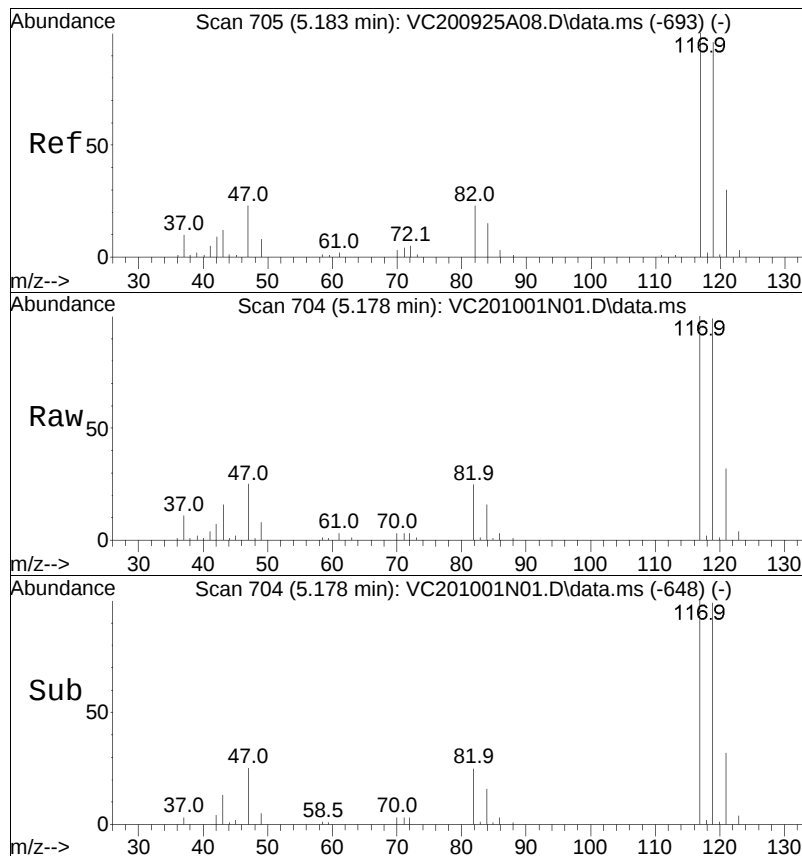




#32
 Chloroform
 Concen: 38.05 ug/L
 RT: 5.047 min Scan# 679
 Delta R.T. -0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

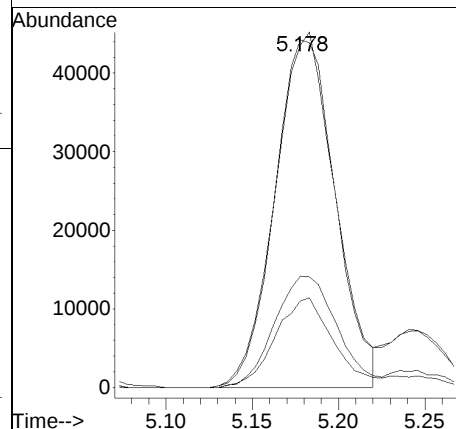
Tgt	Ion: 83	Resp:	142121
Ion	Ratio	Lower	Upper
83	100		
85	66.1	42.8	89.0
47	22.6	15.0	31.2
48	12.4	7.5	15.5

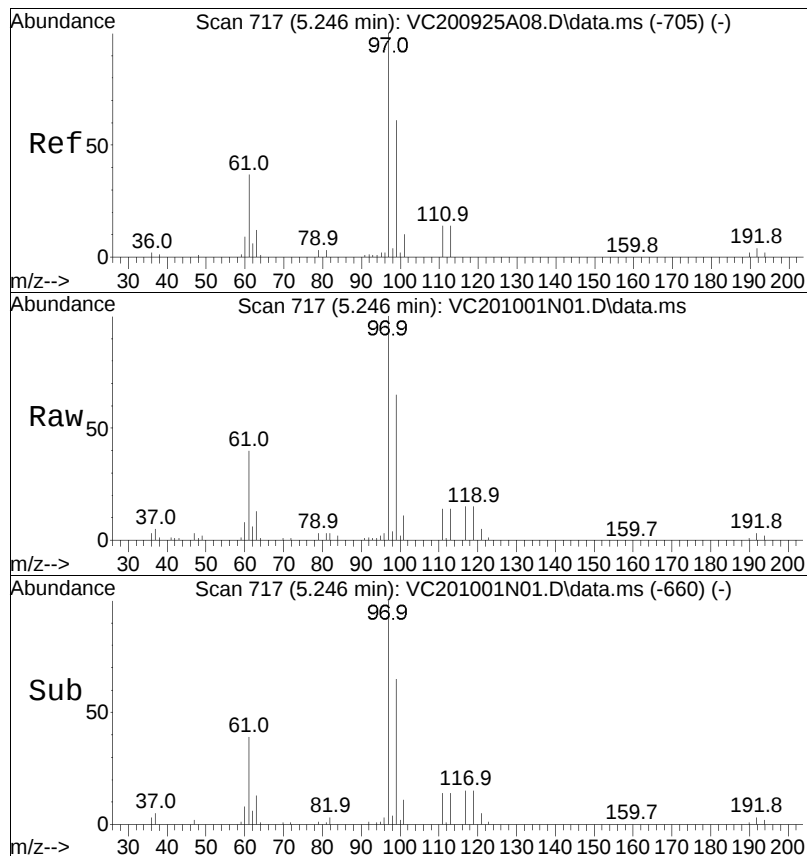




#34
 Carbon tetrachloride
 Concen: 36.77 ug/L
 RT: 5.178 min Scan# 704
 Delta R.T. -0.005 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

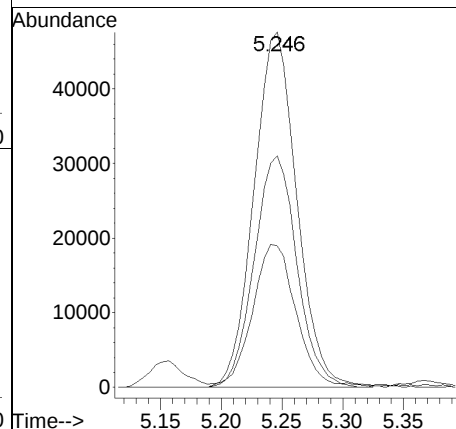
Tgt Ion:	117	Resp:	109650
Ion Ratio	Lower	Upper	
117	100		
119	97.9	62.5	129.9
121	32.7	20.2	41.9
82	24.5	15.5	32.1

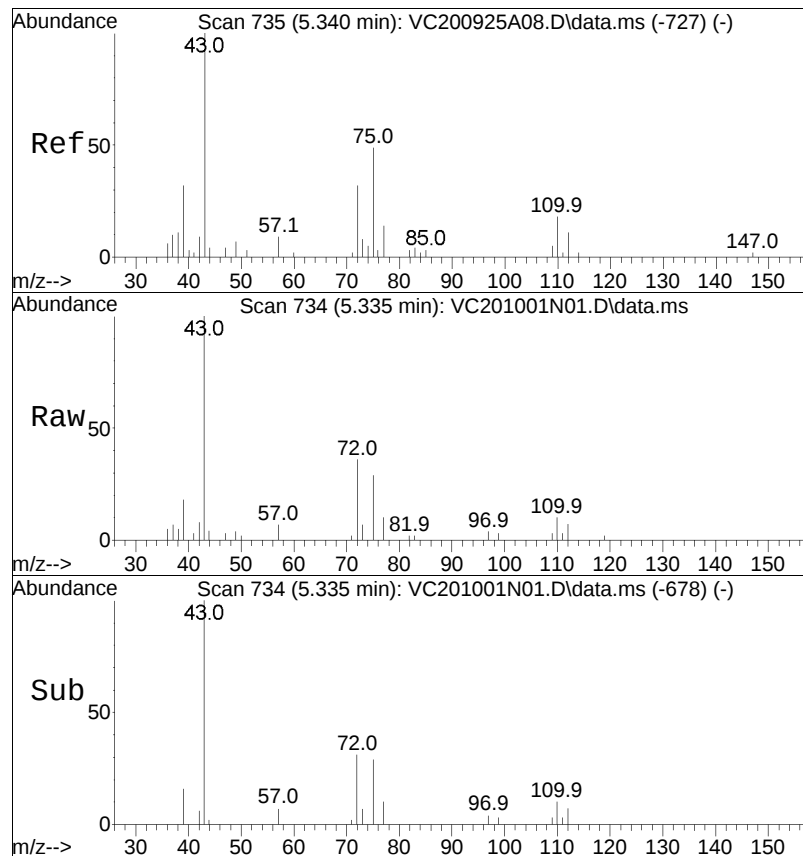




#37
 1,1,1-Trichloroethane
 Concen: 37.03 ug/L
 RT: 5.246 min Scan# 717
 Delta R.T. -0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

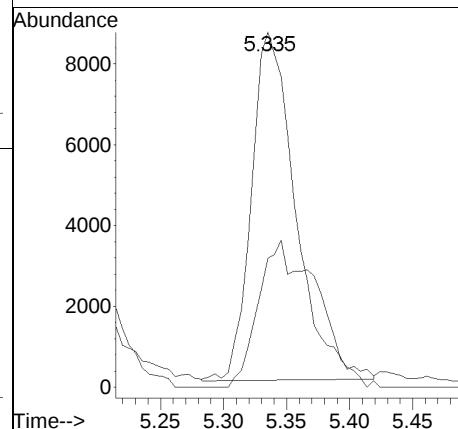
Tgt Ion:	97	Resp:	117154
Ion Ratio	Lower	Upper	
97	100		
99	65.6	41.2	85.6
61	40.7	27.8	57.8
61	40.7	27.8	57.8

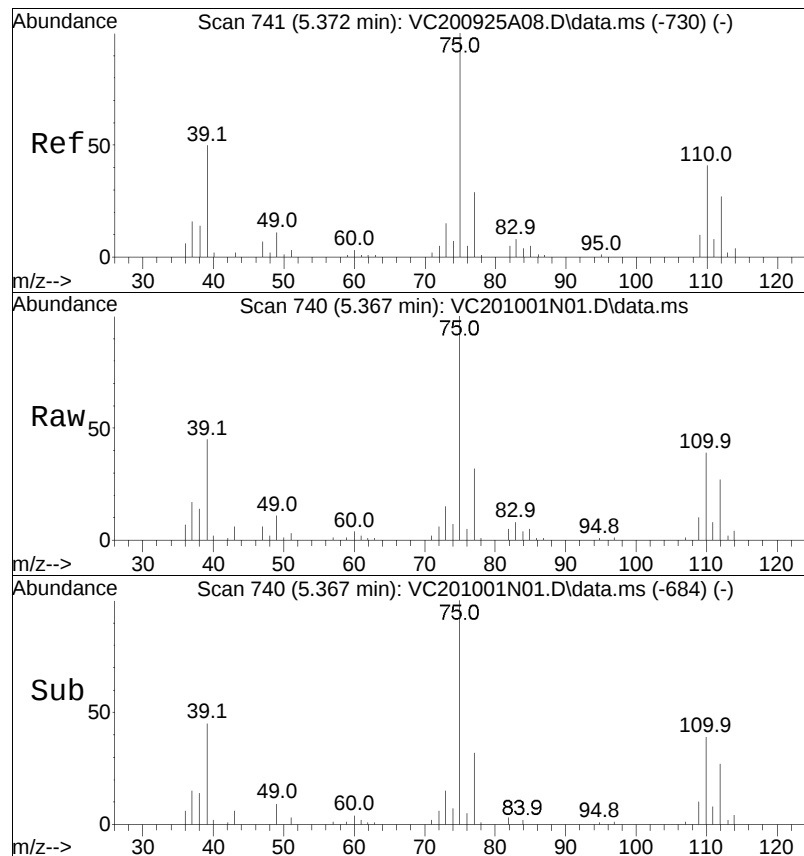




#39
 2-Butanone
 Concen: 30.19 ug/L
 RT: 5.335 min Scan# 734
 Delta R.T. -0.005 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

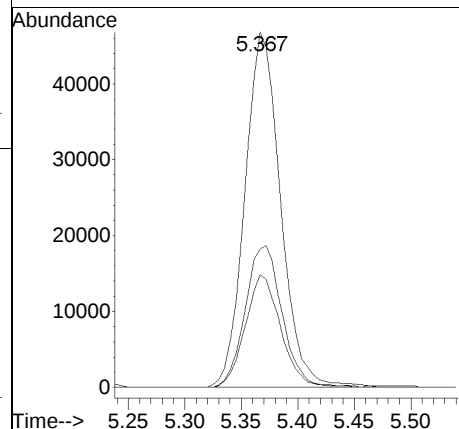
Tgt Ion	Ratio	Lower	Upper
43	100		
72	36.9	33.3	49.9

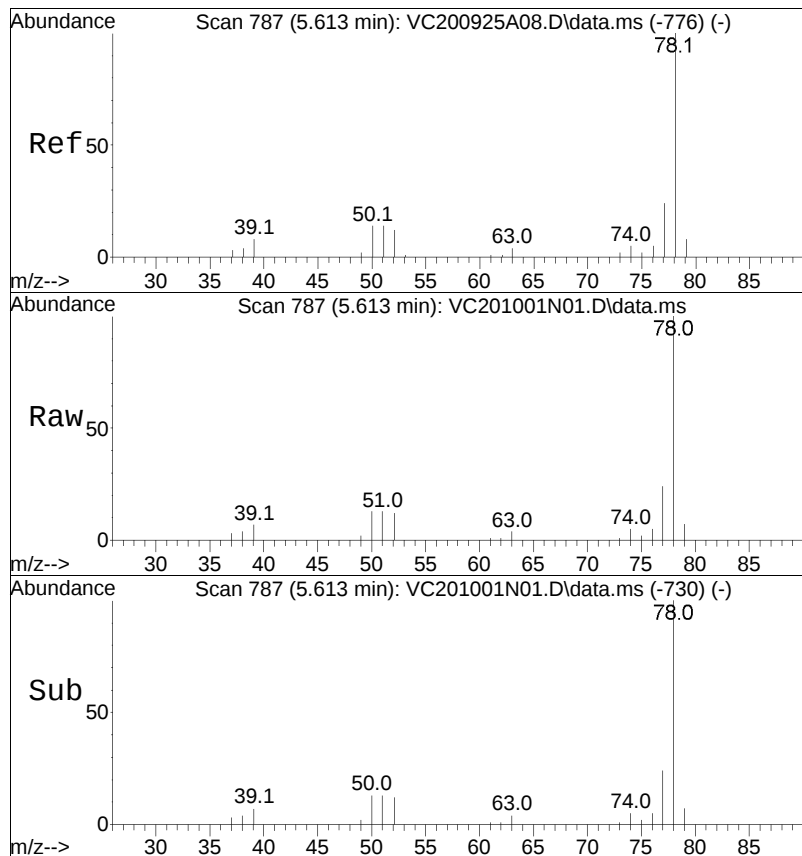




#40
 1,1-Dichloropropene
 Concen: 39.56 ug/L
 RT: 5.367 min Scan# 740
 Delta R.T. -0.005 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

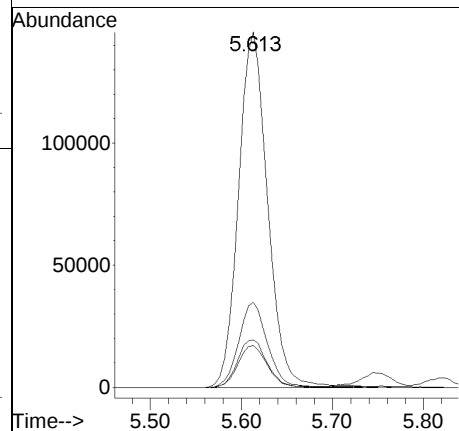
Tgt	Ion: 75	Resp:	102985
Ion	Ratio	Lower	Upper
75	100		
110	41.2	24.9	51.7
77	31.5	19.8	41.0

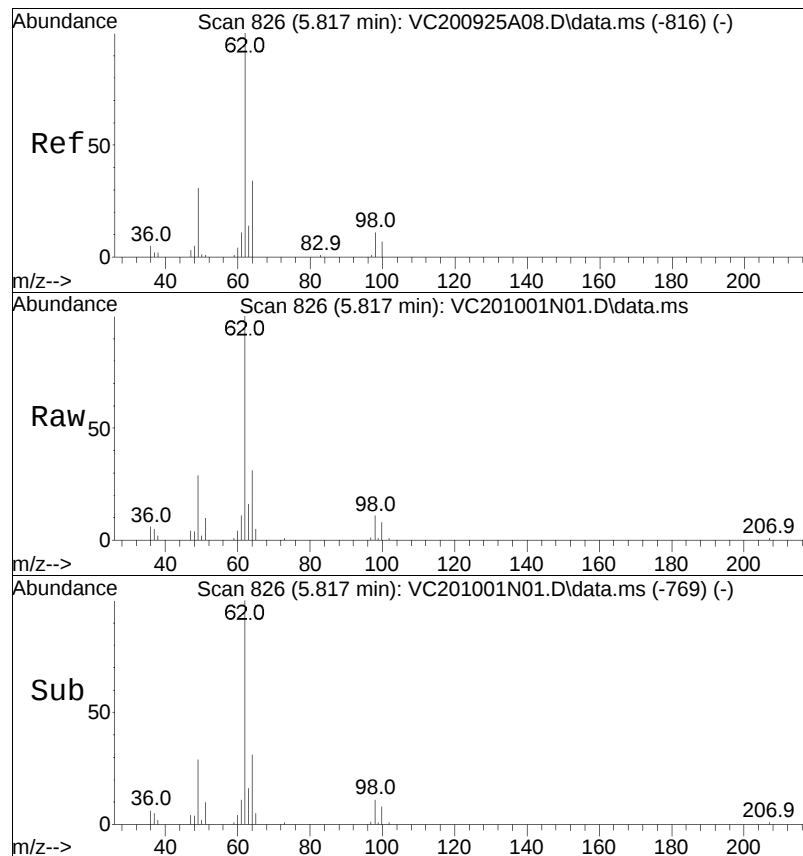




#41
Benzene
Concen: 36.17 ug/L
RT: 5.613 min Scan# 787
Delta R.T. -0.000 min
Lab File: VC201001N01.D
Acq: 1 Oct 2020 5:38 pm

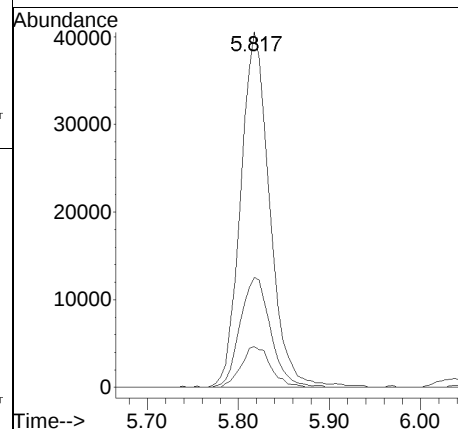
Tgt	Ion: 78	Resp:	323309
Ion	Ratio	Lower	Upper
78	100		
77	23.7	15.3	31.9
51	13.6	9.8	20.4
52	11.9	9.0	18.8

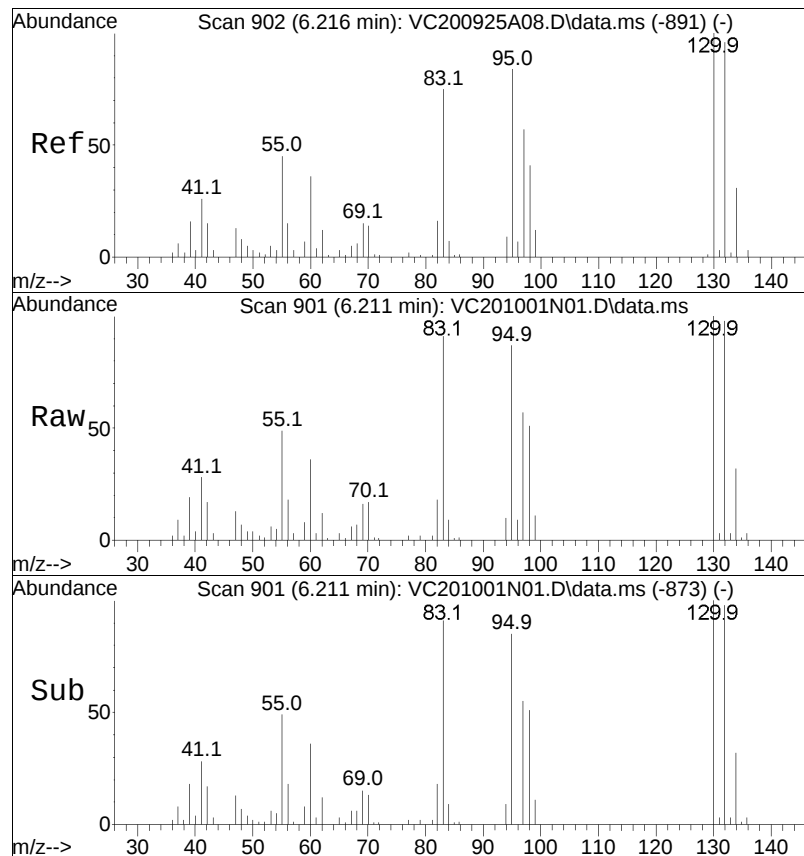




#44
 1,2-Dichloroethane
 Concen: 35.89 ug/L
 RT: 5.817 min Scan# 826
 Delta R.T. 0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

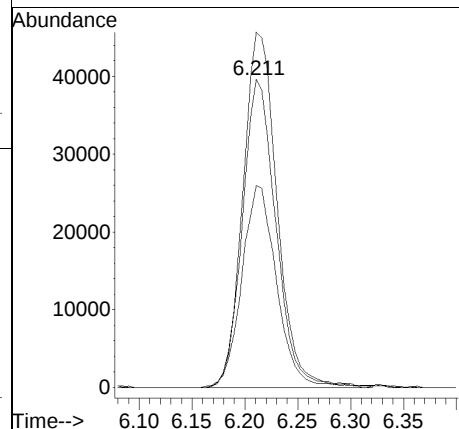
Tgt Ion	Ratio	Lower	Upper
62	100		
64	32.5	12.1	52.1
98	11.7	0.0	29.9

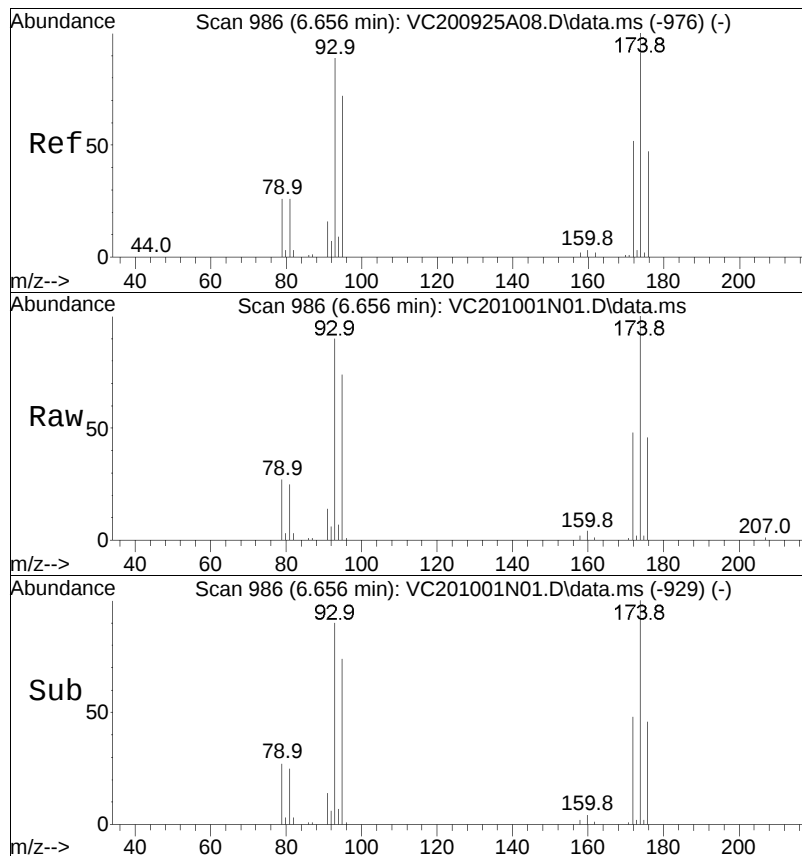




#48
 Trichloroethene
 Concen: 38.23 ug/L
 RT: 6.211 min Scan# 901
 Delta R.T. -0.005 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

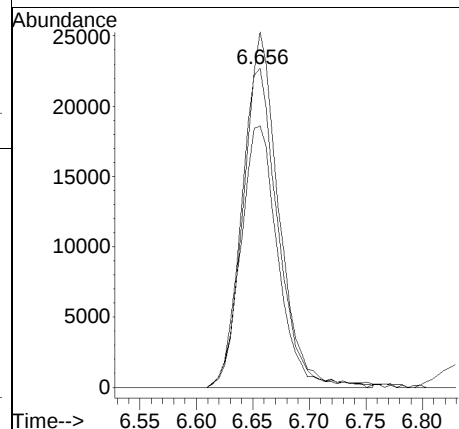
Tgt Ion	Ratio	Lower	Upper
95	100		
97	67.9	54.6	82.0
130	117.7	89.0	133.6

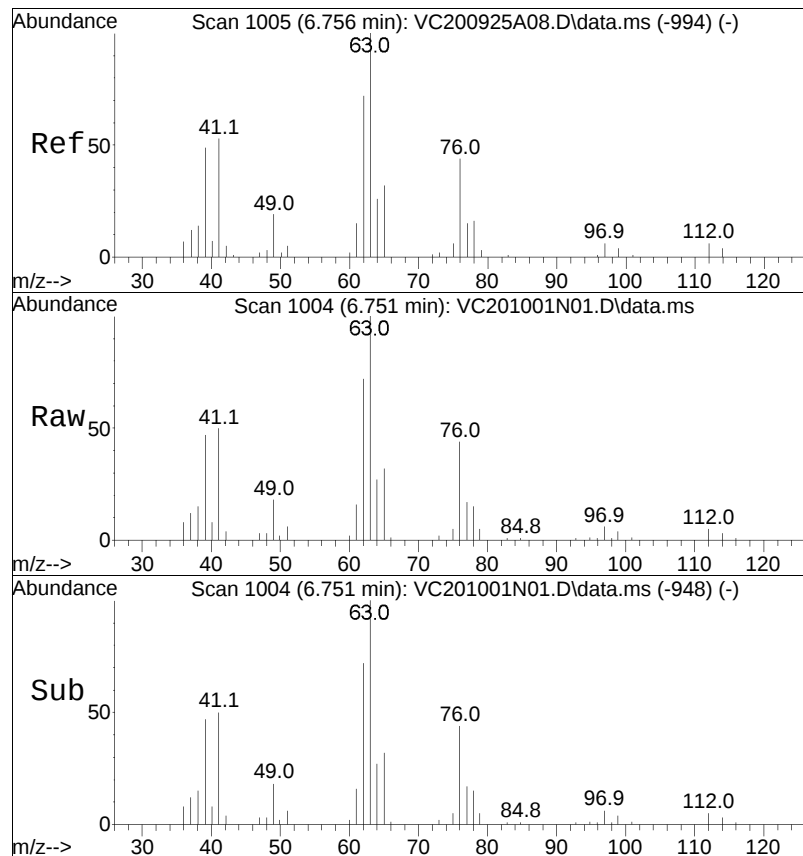




#50
 Dibromomethane
 Concen: 38.33 ug/L
 RT: 6.656 min Scan# 986
 Delta R.T. 0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

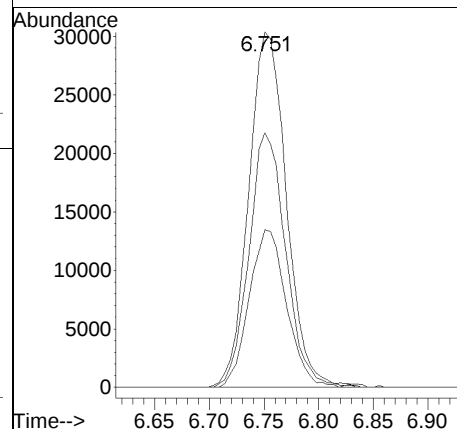
Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.5	66.7	100.1
174	105.6	87.0	130.4

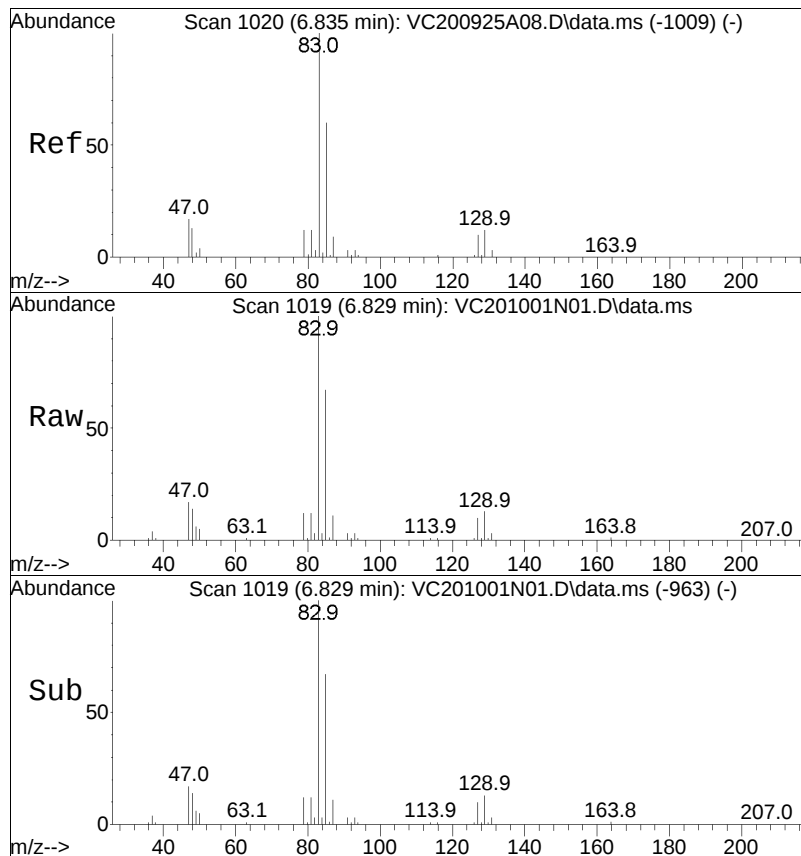




#51
 1,2-Dichloropropane
 Concen: 38.65 ug/L
 RT: 6.751 min Scan# 1004
 Delta R.T. -0.005 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

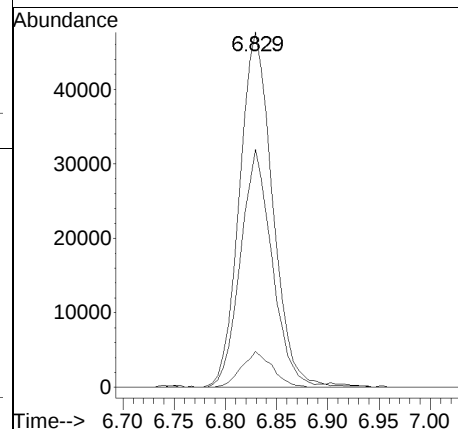
Tgt Ion	Ratio	Lower	Upper
63	100		
62	69.7	57.8	86.6
76	43.9	37.1	55.7

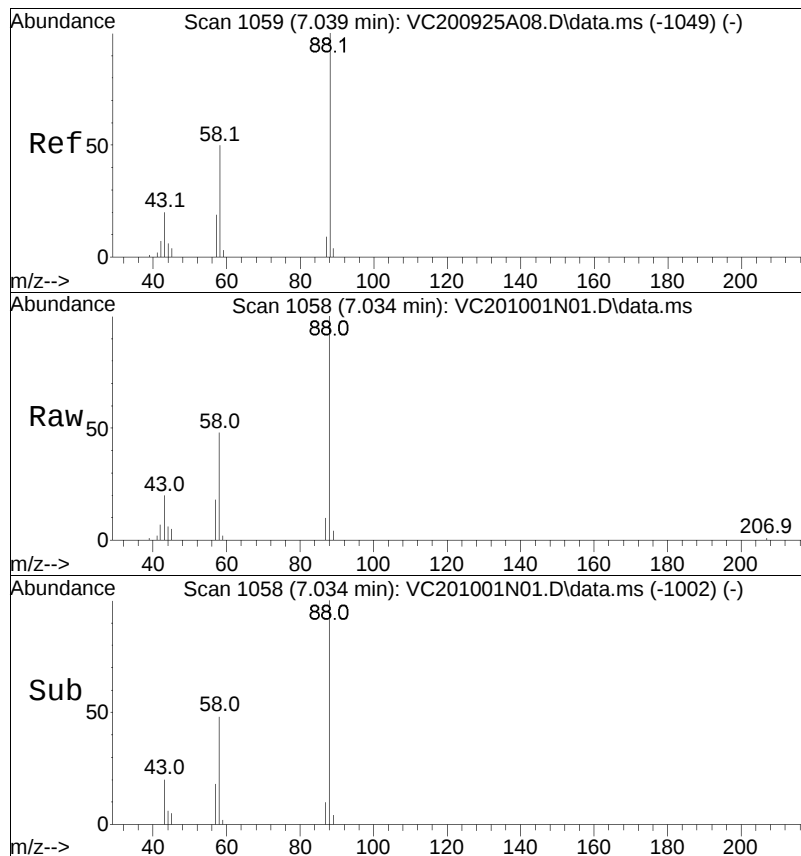




#54
 Bromodichloromethane
 Concen: 34.21 ug/L
 RT: 6.829 min Scan# 1019
 Delta R.T. -0.006 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

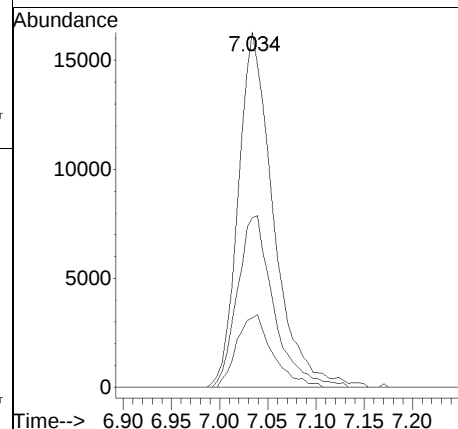
Tgt Ion:	83	Resp:	107528
Ion Ratio	Lower	Upper	
83	100		
85	64.5	51.5	77.3
127	9.5	7.6	11.4

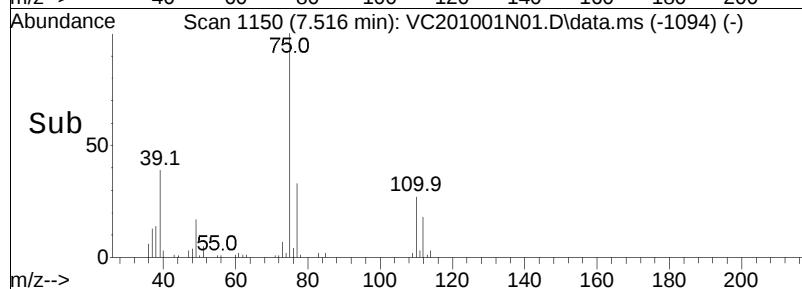
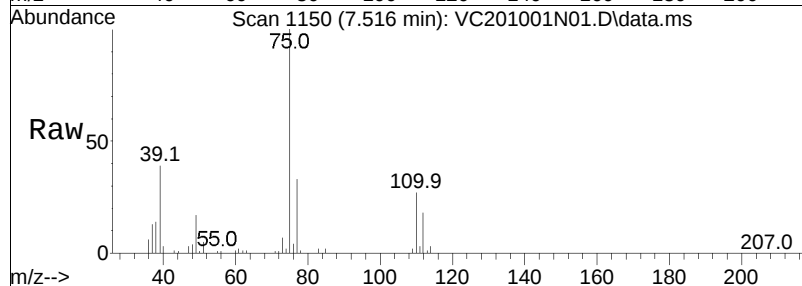
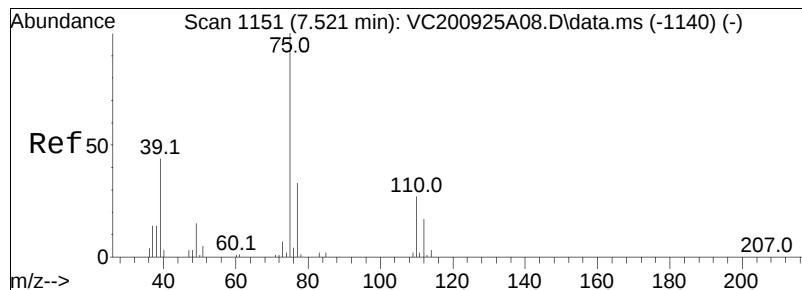




#57
 1,4-Dioxane
 Concen: 1780.98 ug/L
 RT: 7.034 min Scan# 1058
 Delta R.T. -0.005 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

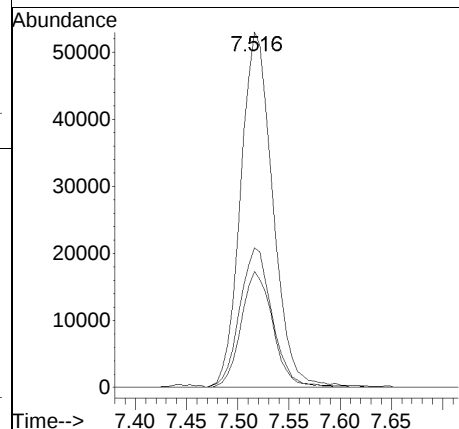
Tgt Ion:	88	Resp:	41446
Ion Ratio	Lower	Upper	
88	100		
58	49.8	45.8	68.6
43	20.9	18.3	27.5

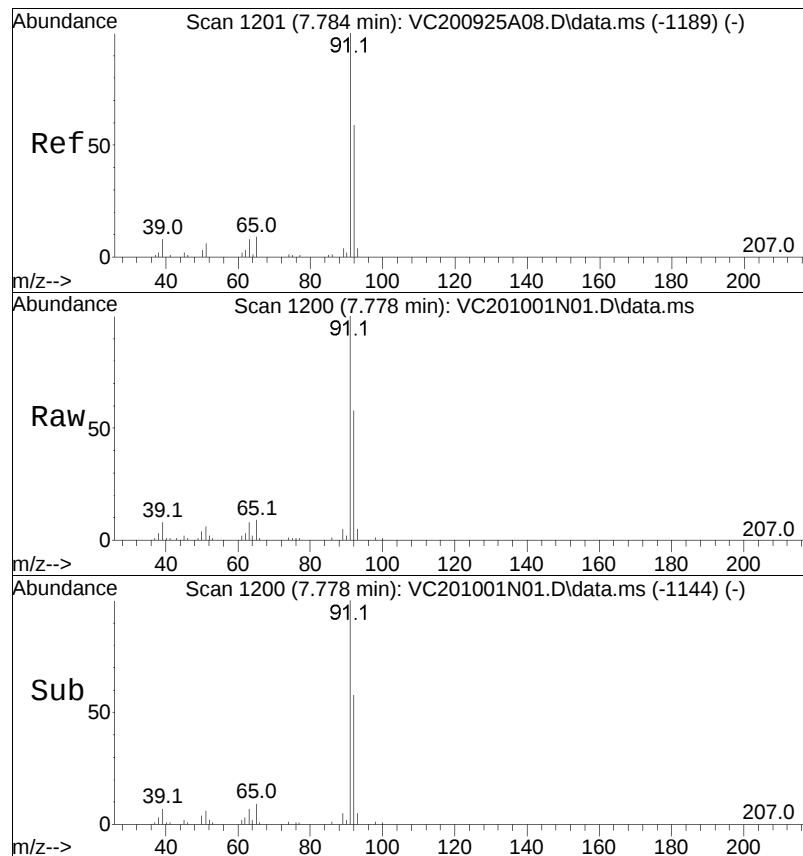




#58
 cis-1,3-Dichloropropene
 Concen: 33.79 ug/L
 RT: 7.516 min Scan# 1150
 Delta R.T. -0.005 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

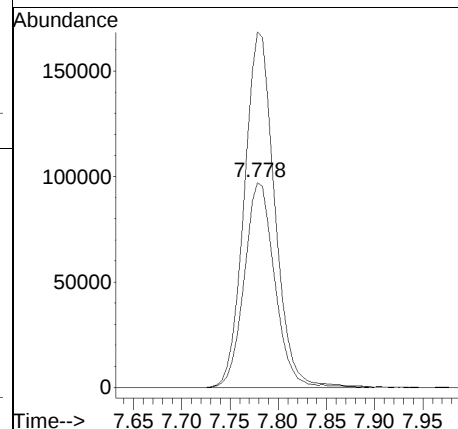
Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.1	37.7
39	39.7	35.0	52.6

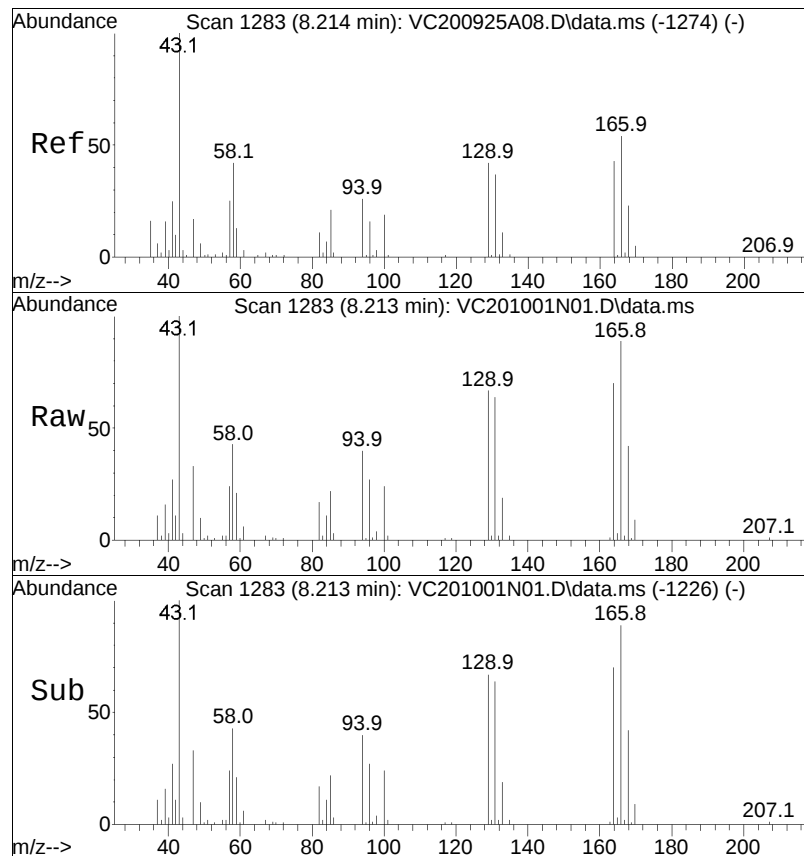




#61
 Toluene
 Concen: 36.92 ug/L
 RT: 7.778 min Scan# 1200
 Delta R.T. -0.006 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

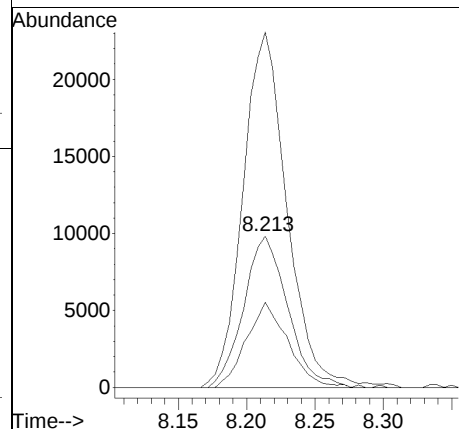
Tgt Ion	Ratio	Lower	Upper
92	100		
91	173.4	137.8	206.6

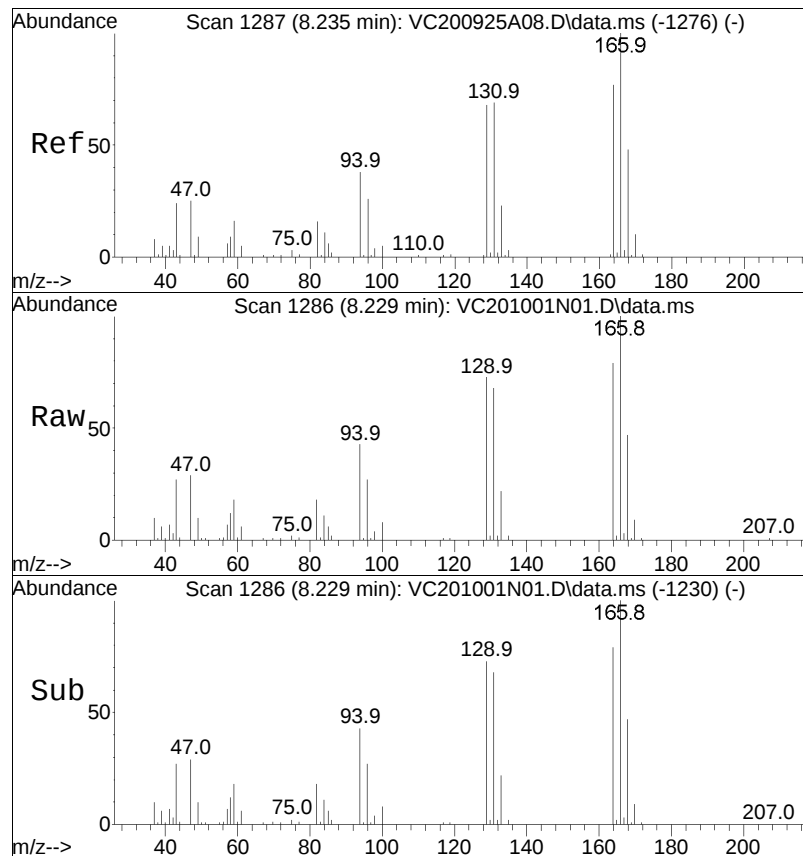




#62
 4-Methyl-2-pentanone
 Concen: 35.65 ug/L
 RT: 8.213 min Scan# 1283
 Delta R.T. -0.001 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

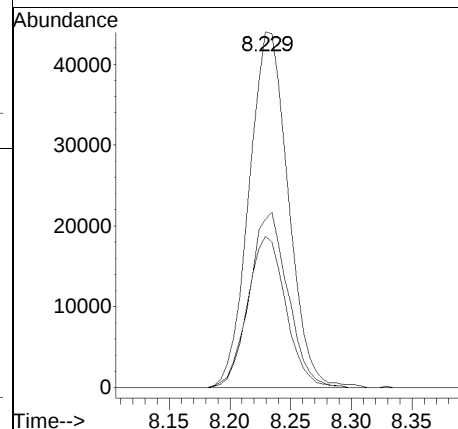
Tgt Ion	Ratio	Lower	Upper
58	100		
100	53.0	36.9	55.3
43	235.1	205.4	308.2

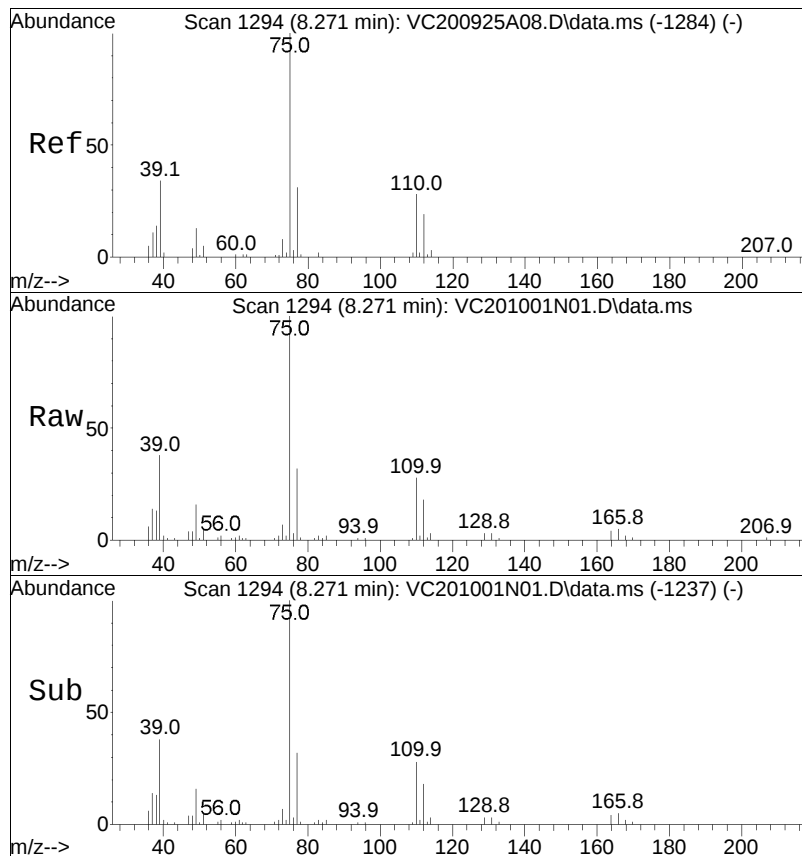




#63
Tetrachloroethene
Concen: 36.43 ug/L
RT: 8.229 min Scan# 1286
Delta R.T. -0.006 min
Lab File: VC201001N01.D
Acq: 1 Oct 2020 5:38 pm

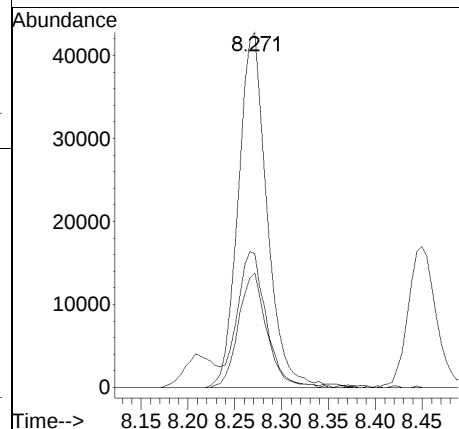
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	98887		
168	48.0		26.4	66.4
94	41.6		21.5	61.5

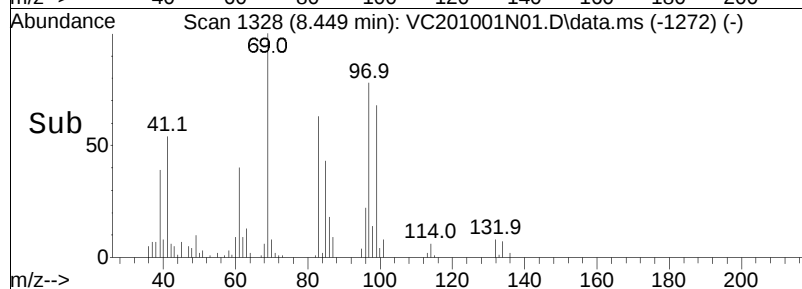
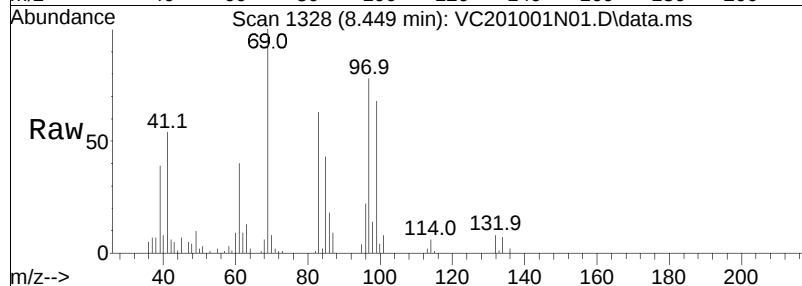
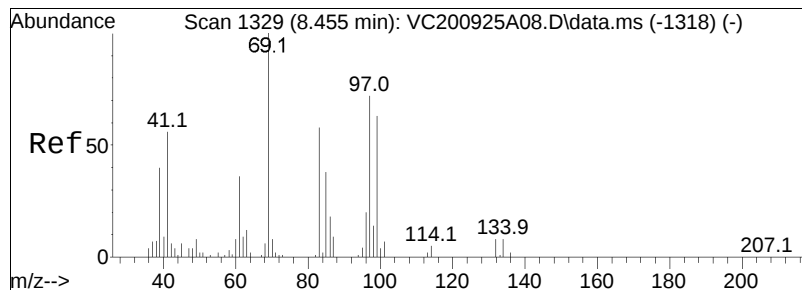




#65
 trans-1,3-Dichloropropene
 Concen: 31.71 ug/L
 RT: 8.271 min Scan# 1294
 Delta R.T. 0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.6	11.7	51.7
39	38.6	23.8	63.8





#68

1,1,2-Trichloroethane

Concen: 35.91 ug/L

RT: 8.449 min Scan# 1328

Delta R.T. -0.006 min

Lab File: VC201001N01.D

Acq: 1 Oct 2020 5:38 pm

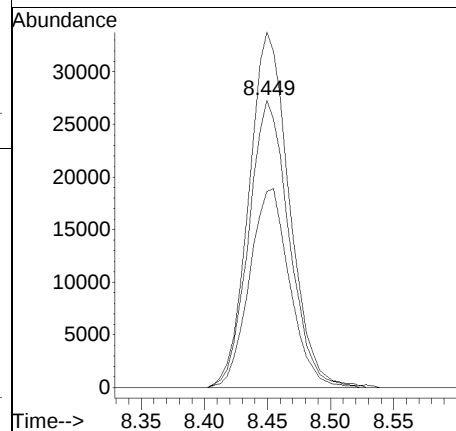
Tgt Ion: 83 Resp: 60706

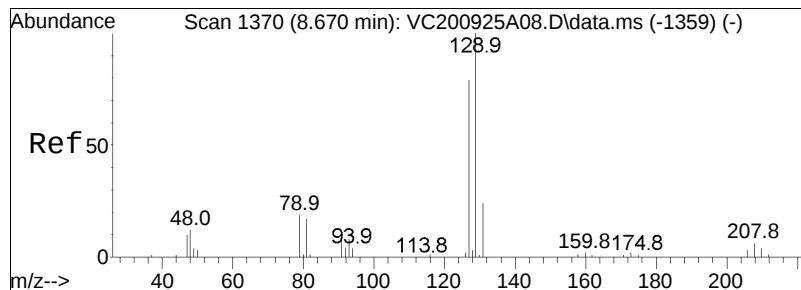
Ion Ratio Lower Upper

83 100

97 124.3 98.7 138.7

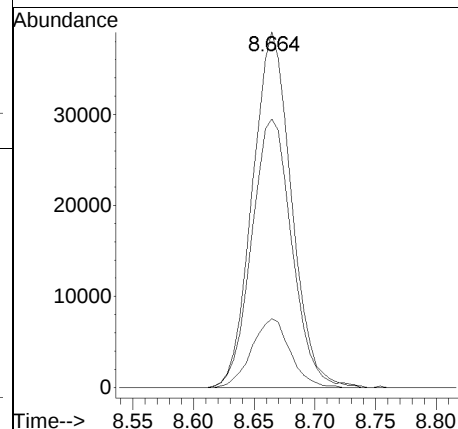
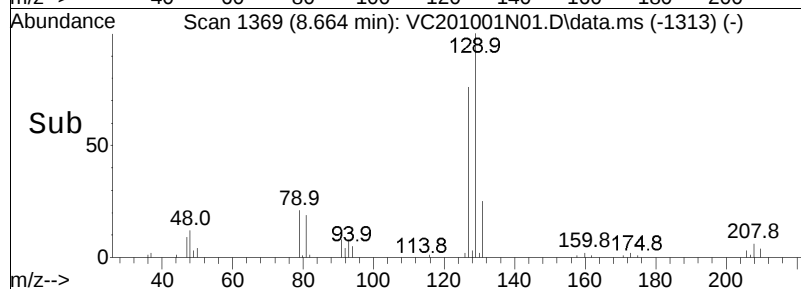
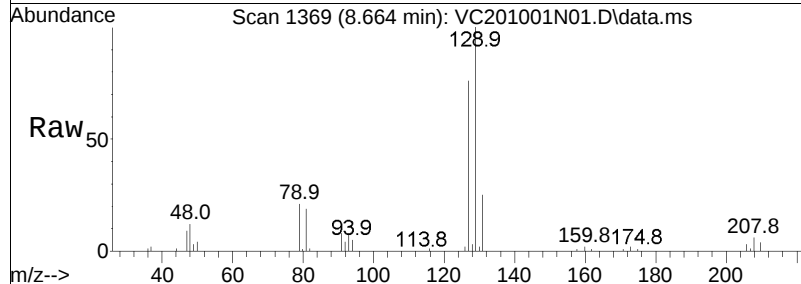
85 69.2 47.1 87.1

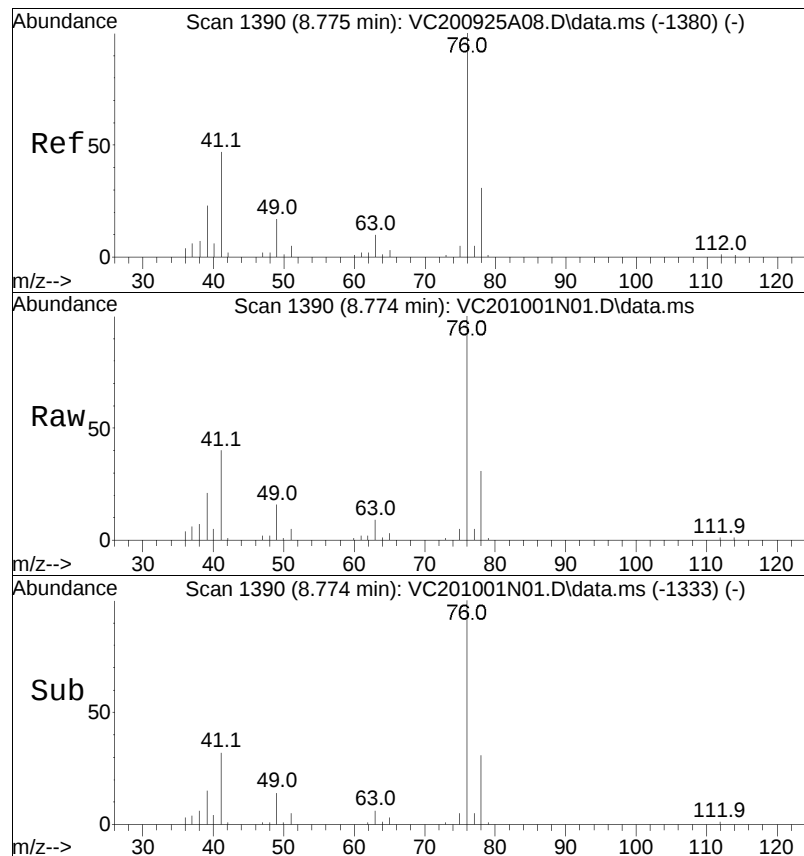




#69
 Chlorodibromomethane
 Concen: 32.23 ug/L
 RT: 8.664 min Scan# 1369
 Delta R.T. -0.006 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

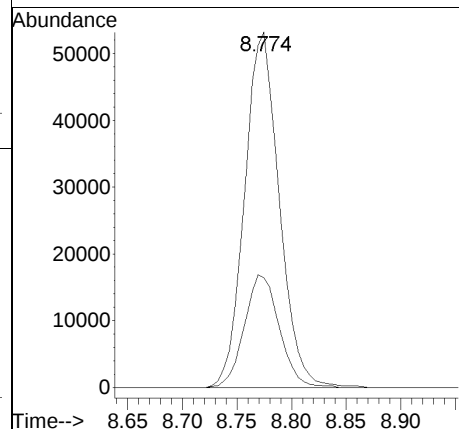
Tgt Ion	Ratio	Lower	Upper
129	100		
81	19.1	0.0	37.3
127	78.0	57.7	97.7

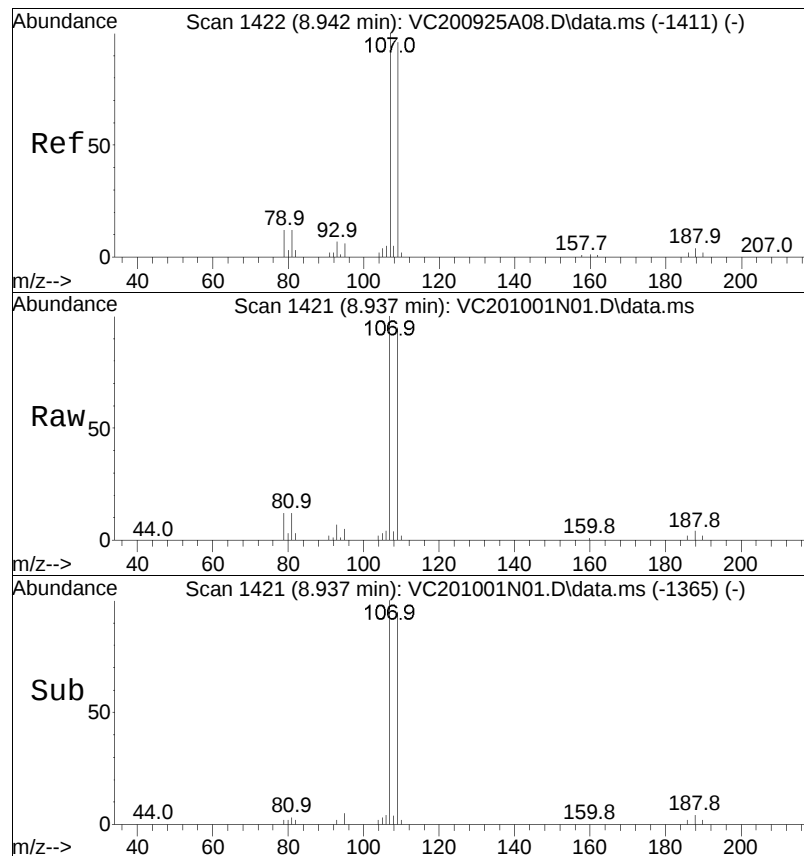




#70
 1,3-Dichloropropane
 Concen: 37.89 ug/L
 RT: 8.774 min Scan# 1390
 Delta R.T. -0.001 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

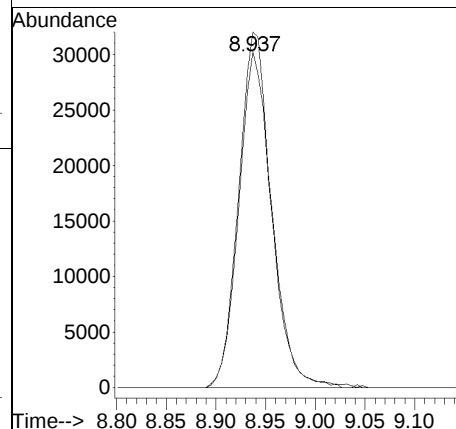
Tgt Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.9	38.9

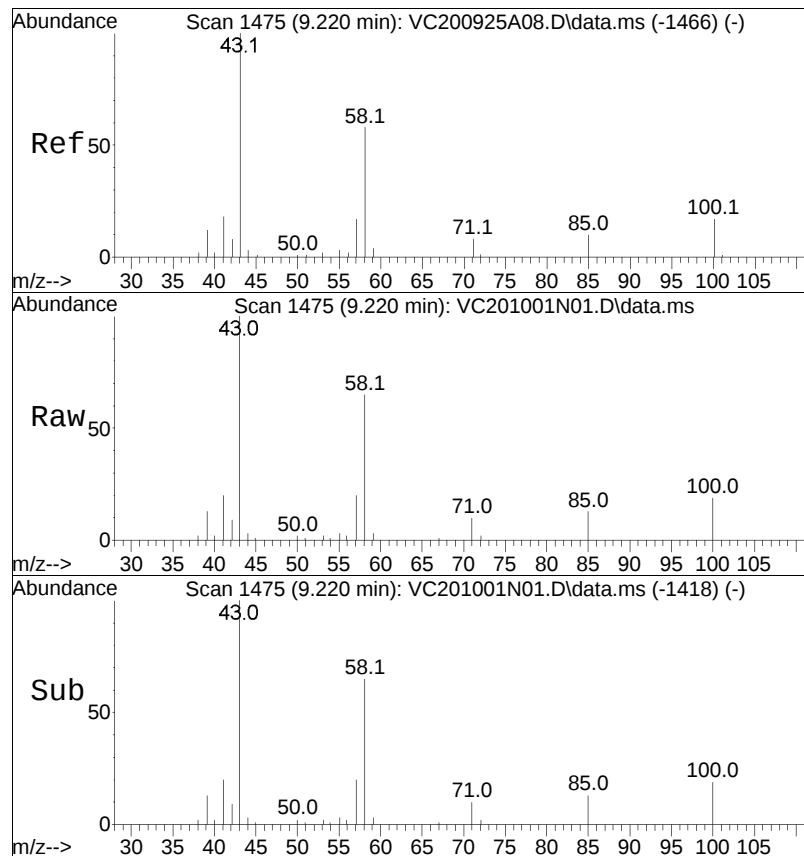




#71
 1,2-Dibromoethane
 Concen: 37.96 ug/L
 RT: 8.937 min Scan# 1421
 Delta R.T. -0.005 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

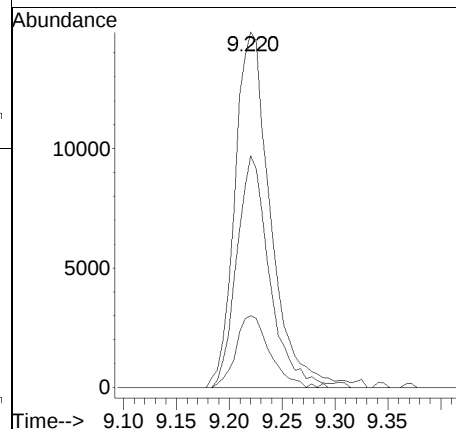
Tgt Ion	Ratio	Lower	Upper
107	100		
109	93.6	75.8	113.8

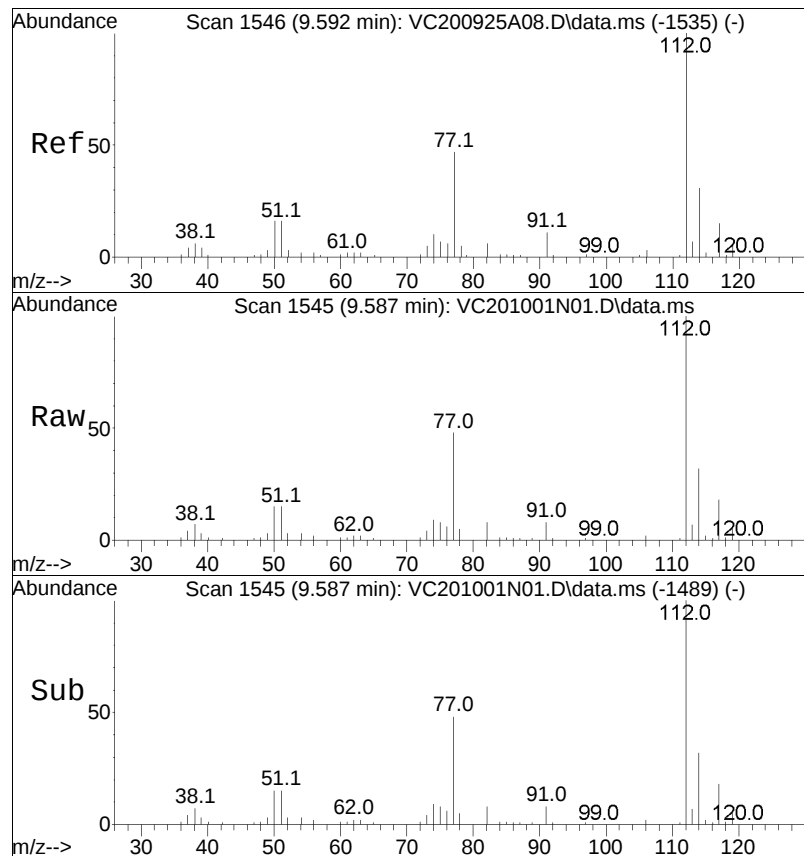




#72
 2-Hexanone
 Concen: 32.28 ug/L
 RT: 9.220 min Scan# 1475
 Delta R.T. 0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

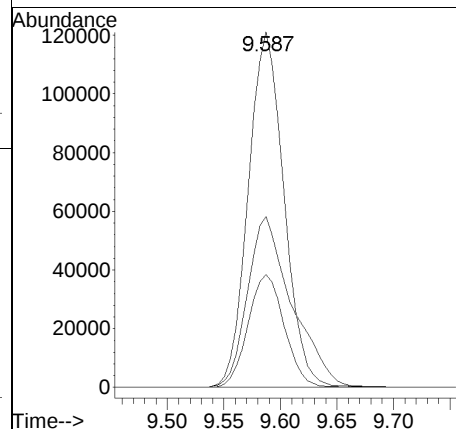
Tgt Ion:	43	58	57	Ion Ratio	100	59.8	19.2	Resp:	35038	Lower	Upper

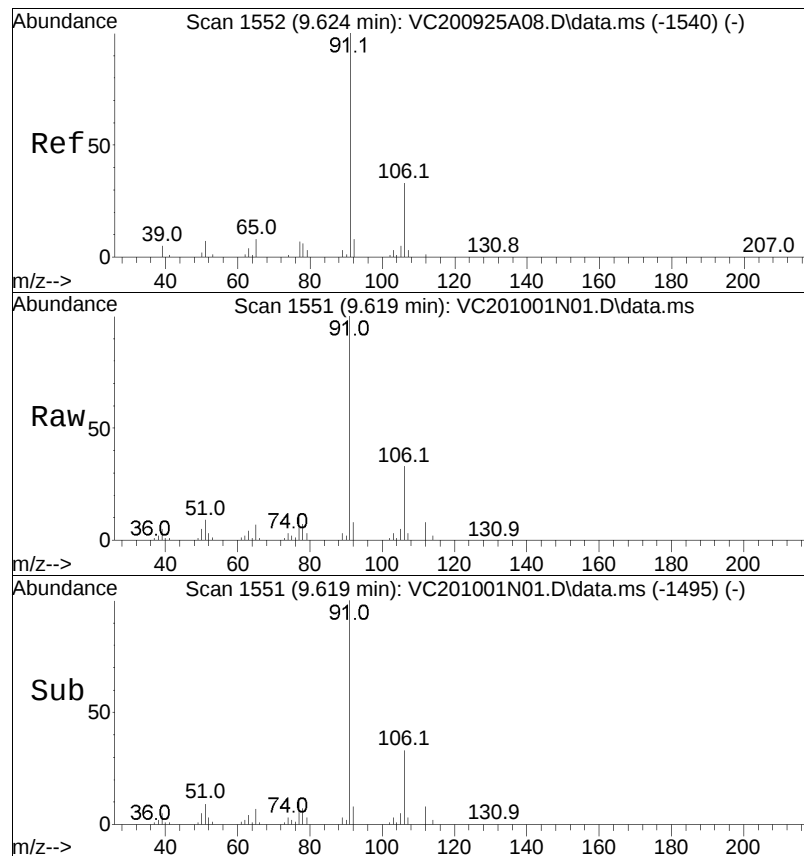




#73
 Chlorobenzene
 Concen: 34.05 ug/L
 RT: 9.587 min Scan# 1545
 Delta R.T. -0.005 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

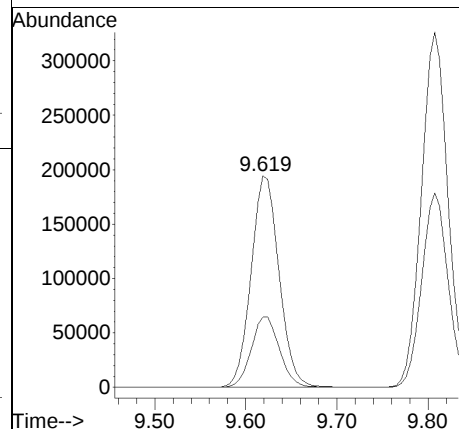
Tgt Ion	Ratio	Lower	Upper
112	100		
77	59.9	51.9	77.9
114	32.2	25.8	38.6

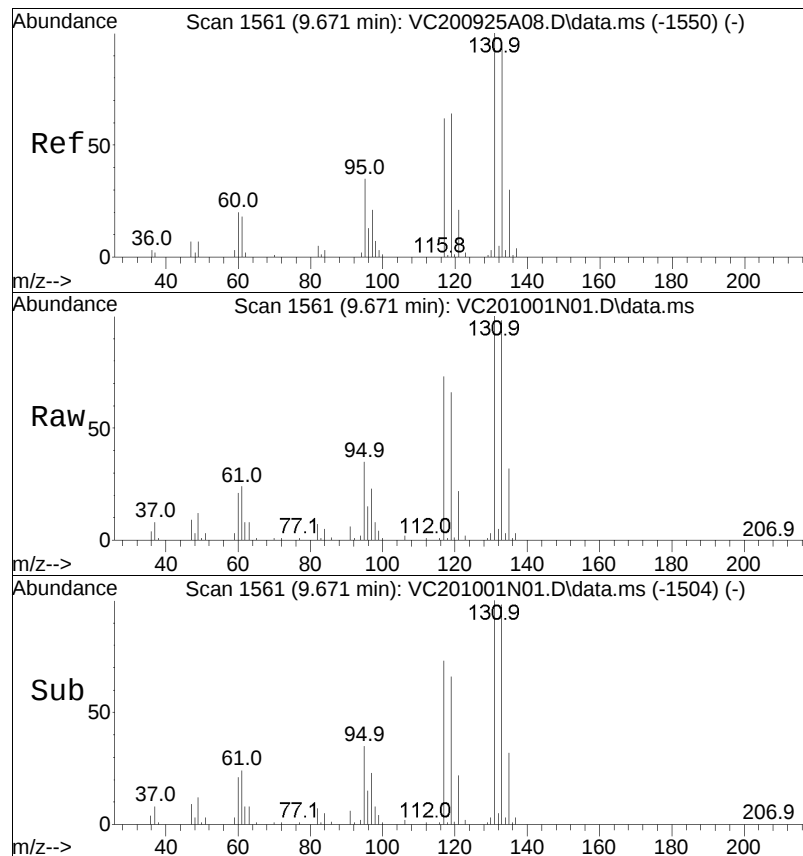




#74
 Ethylbenzene
 Concen: 36.09 ug/L
 RT: 9.619 min Scan# 1551
 Delta R.T. -0.005 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

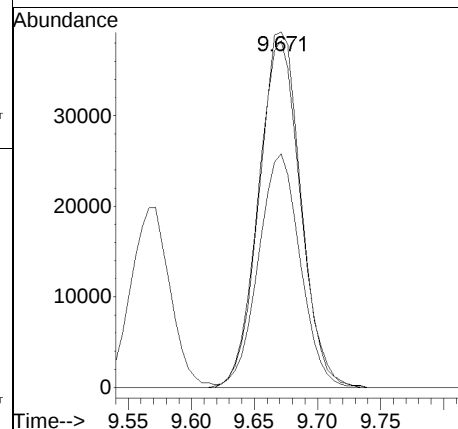
Tgt Ion	Ratio	Lower	Upper
91	100		
106	33.6	26.0	39.0

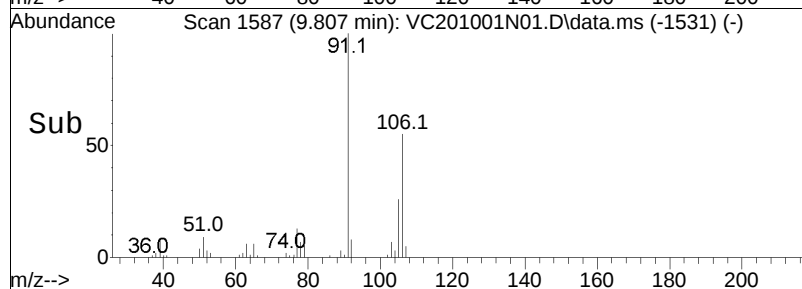
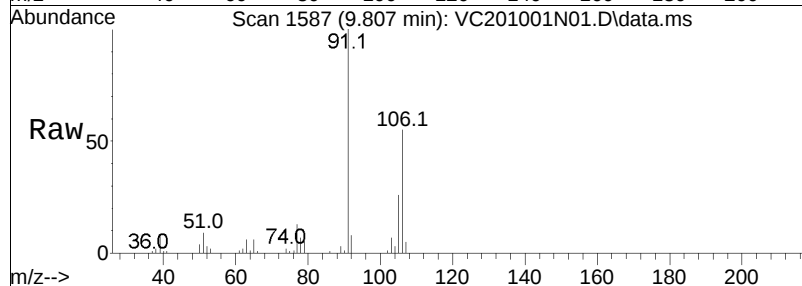
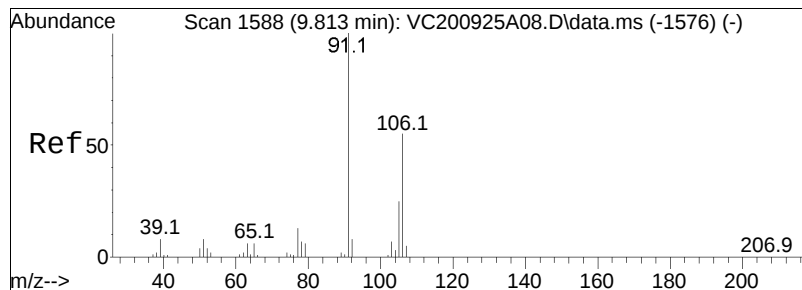




#75
 1,1,1,2-Tetrachloroethane
 Concen: 32.44 ug/L
 RT: 9.671 min Scan# 1561
 Delta R.T. 0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

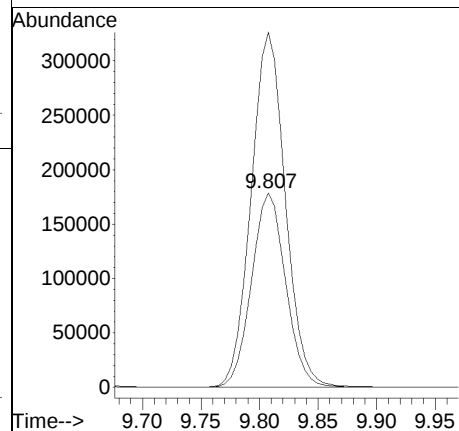
Tgt Ion	Ratio	Resp	Lower	Upper
131	100	91579		
133	95.6		75.0	115.0
119	64.8		46.1	86.1

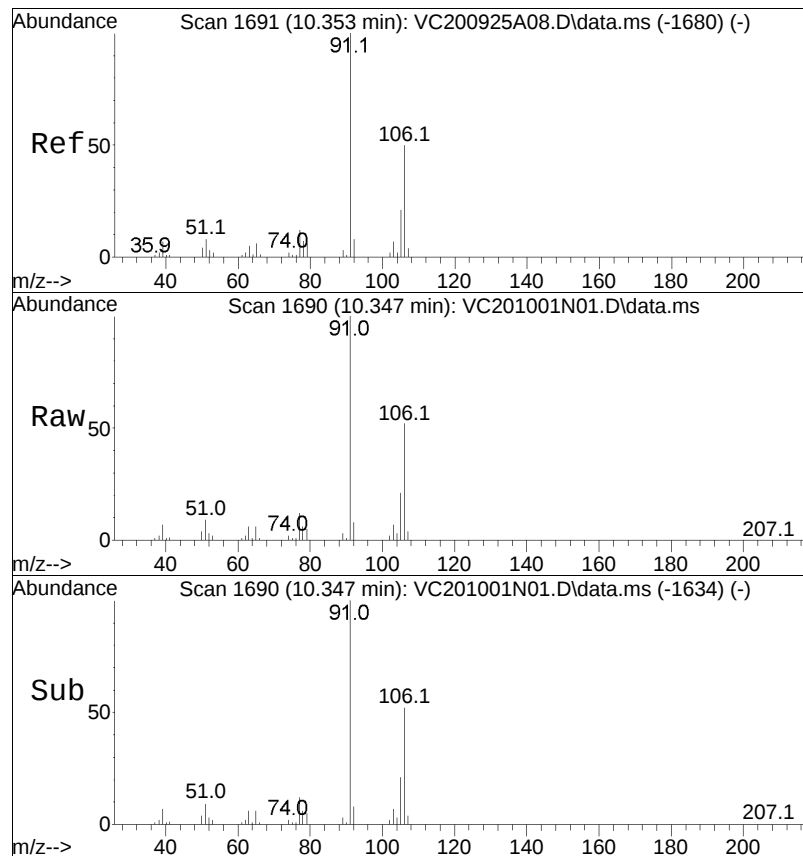




#76
 p/m Xylene
 Concen: 70.34 ug/L
 RT: 9.807 min Scan# 1587
 Delta R.T. -0.006 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

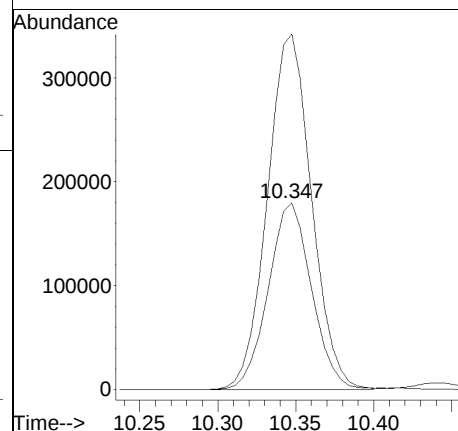
Tgt	Ion	Ratio	Lower	Upper
106	100			
91	182.8	152.9	229.3	

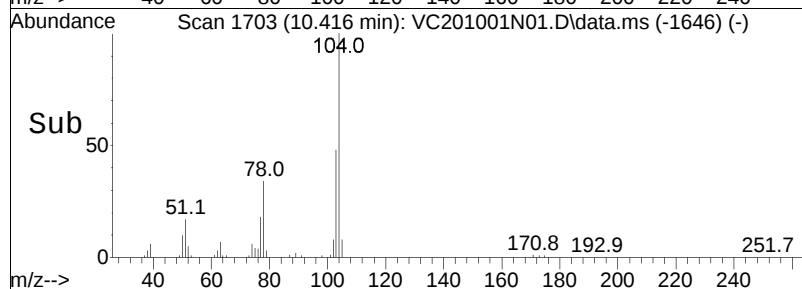
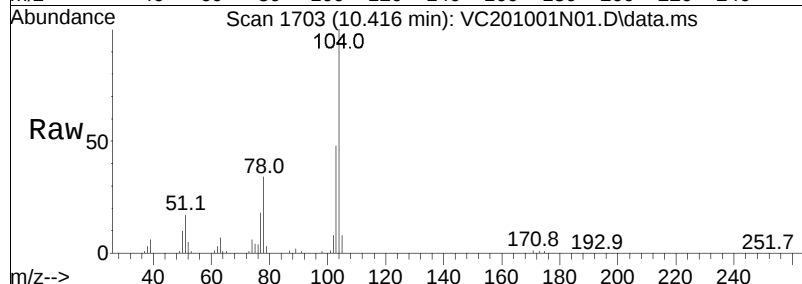
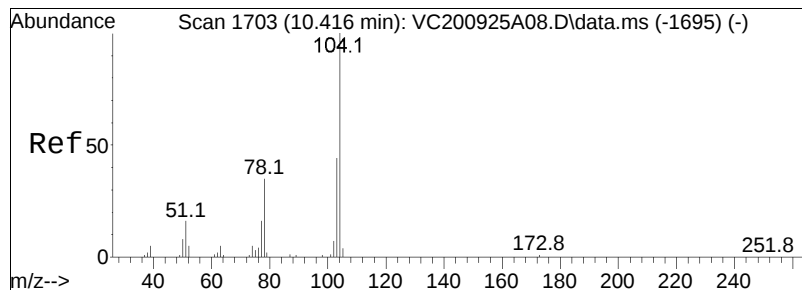




#77
 o Xylene
 Concen: 68.88 ug/L
 RT: 10.347 min Scan# 1690
 Delta R.T. -0.006 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

Tgt Ion	Ratio	Lower	Upper
106	100		
91	194.5	161.5	242.3





#78

Styrene

Concen: 67.54 ug/L

RT: 10.416 min Scan# 1703

Delta R.T. -0.000 min

Lab File: VC201001N01.D

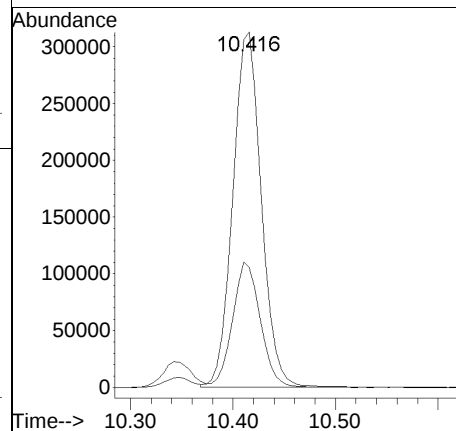
Acq: 1 Oct 2020 5:38 pm

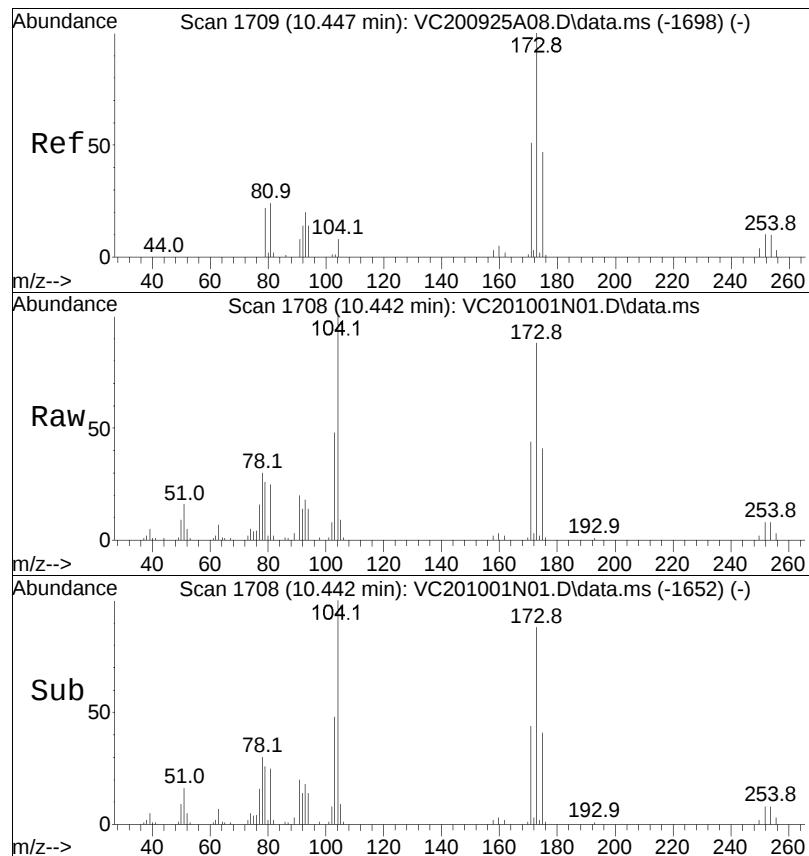
Tgt Ion:104 Resp: 602377

Ion Ratio Lower Upper

104 100

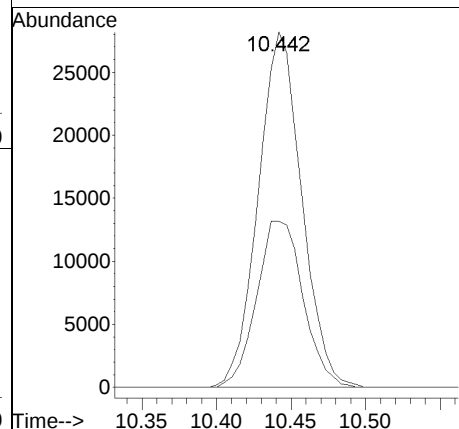
78 34.7 30.7 46.1

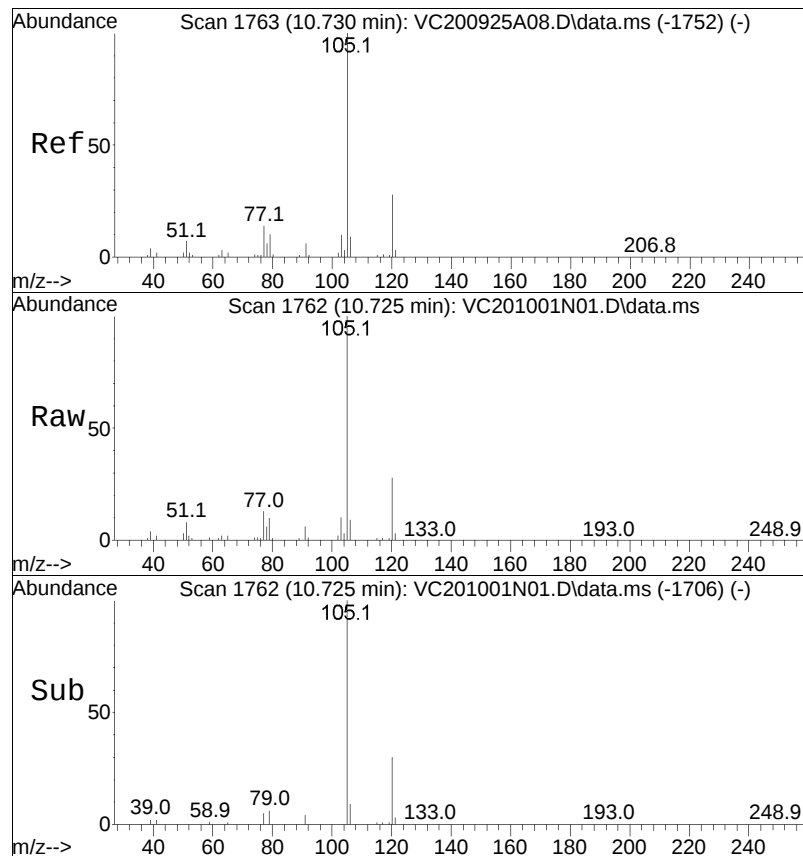




#80
 Bromoform
 Concen: 30.27 ug/L
 RT: 10.442 min Scan# 1708
 Delta R.T. -0.005 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

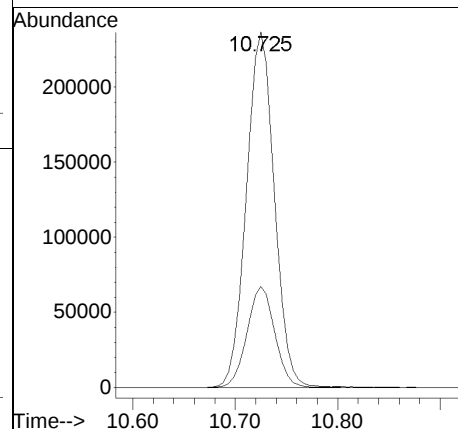
Tgt Ion	Ratio	Lower	Upper
173	100		
175	50.0	29.1	69.1

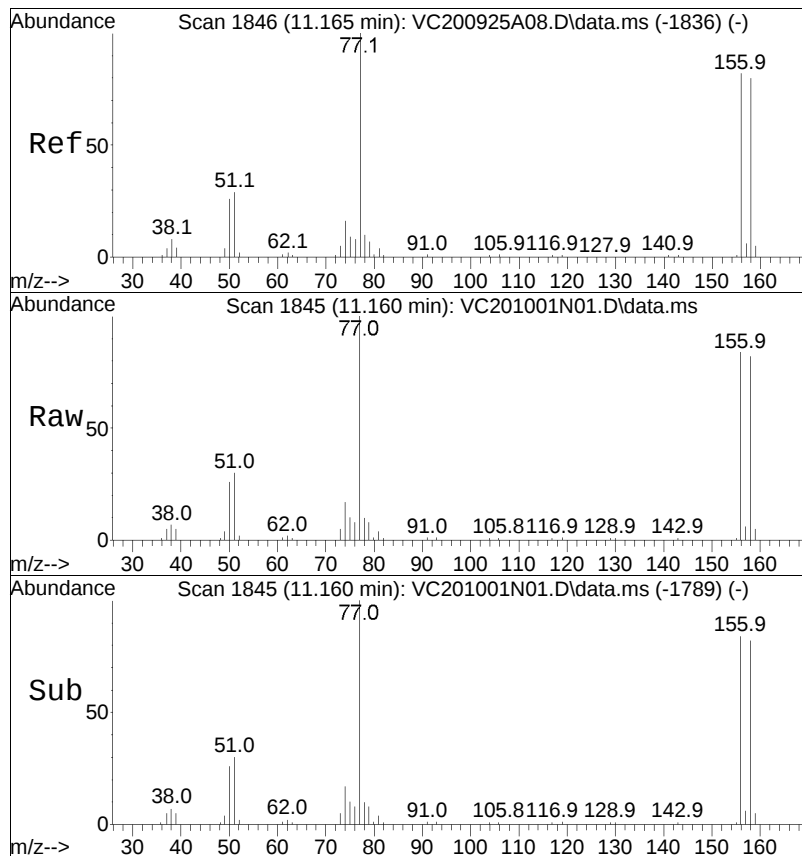




#82
 Isopropylbenzene
 Concen: 39.96 ug/L
 RT: 10.725 min Scan# 1762
 Delta R.T. -0.005 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

Tgt Ion	105	120	Ratio	100	Lower	Upper
105	100					
120	28.1		8.1		48.1	





#84

Bromobenzene

Concen: 38.00 ug/L

RT: 11.160 min Scan# 1845

Delta R.T. -0.005 min

Lab File: VC201001N01.D

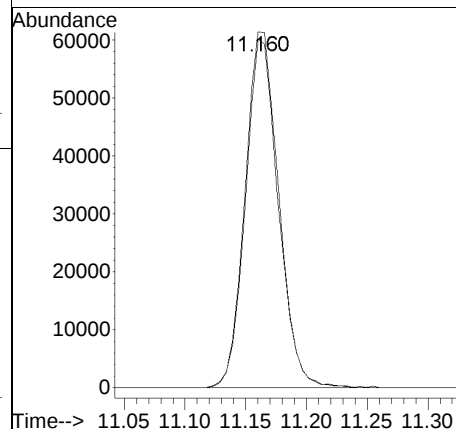
Acq: 1 Oct 2020 5:38 pm

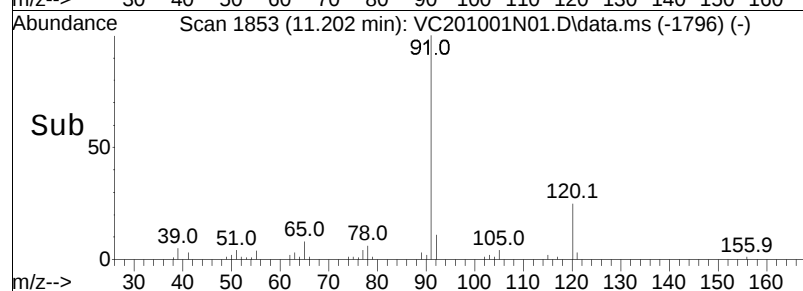
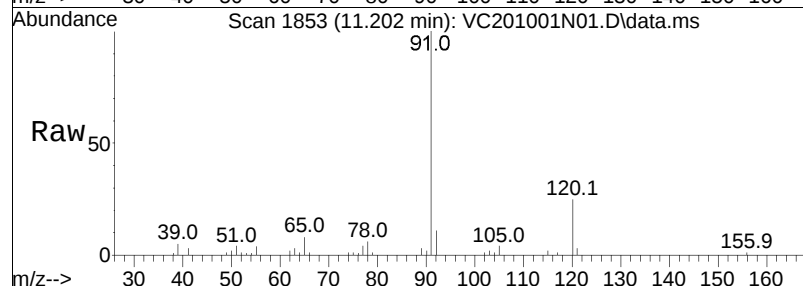
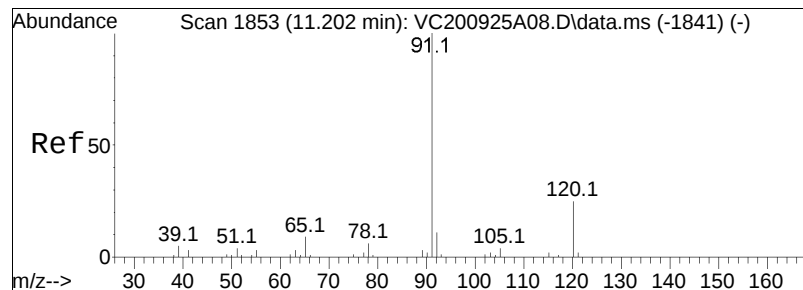
Tgt Ion:156 Resp: 118084

Ion Ratio Lower Upper

156 100

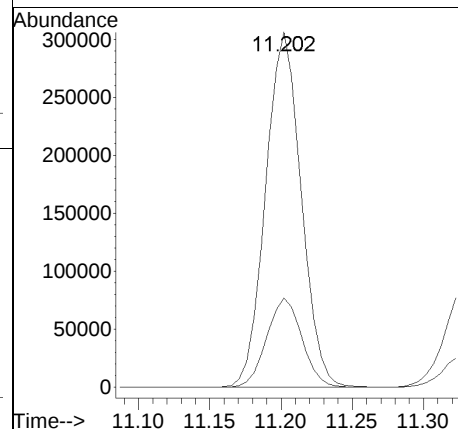
158 95.6 76.4 114.6

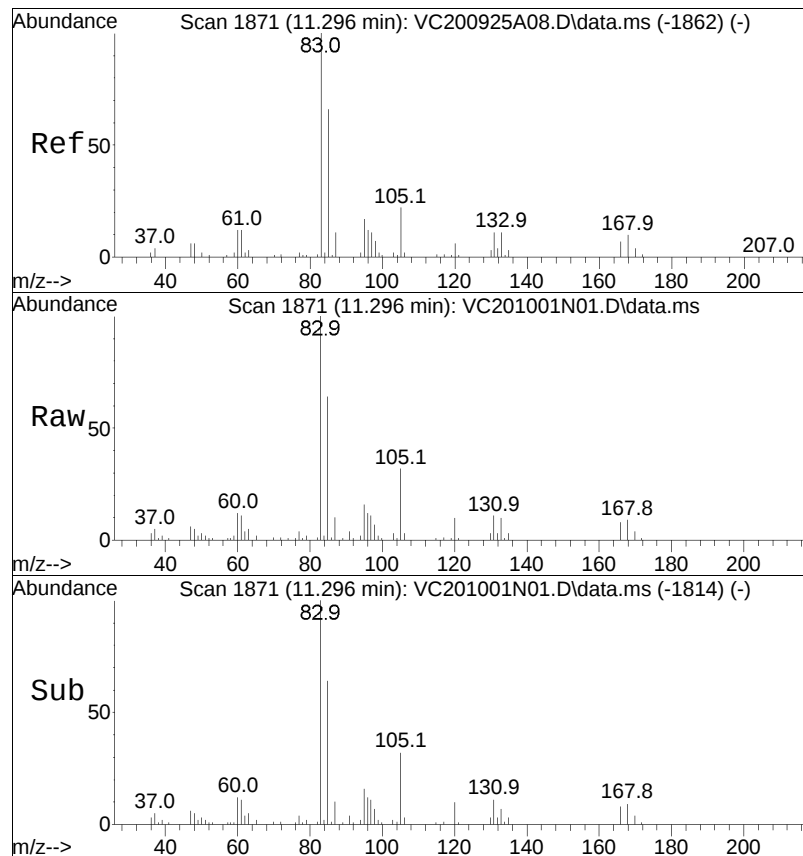




#85
 n-Propylbenzene
 Concen: 40.94 ug/L
 RT: 11.202 min Scan# 1853
 Delta R.T. 0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

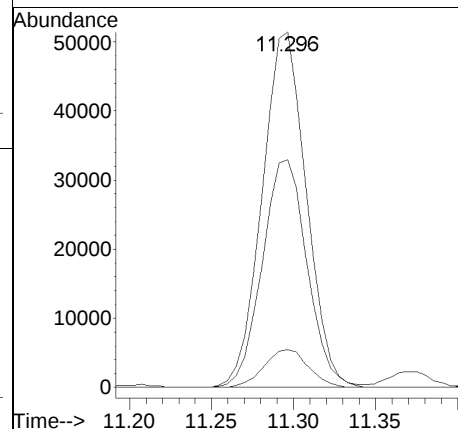
Tgt Ion:	91	Resp:	531405
Ion Ratio	100	Lower	Upper
120	25.0	19.4	29.0

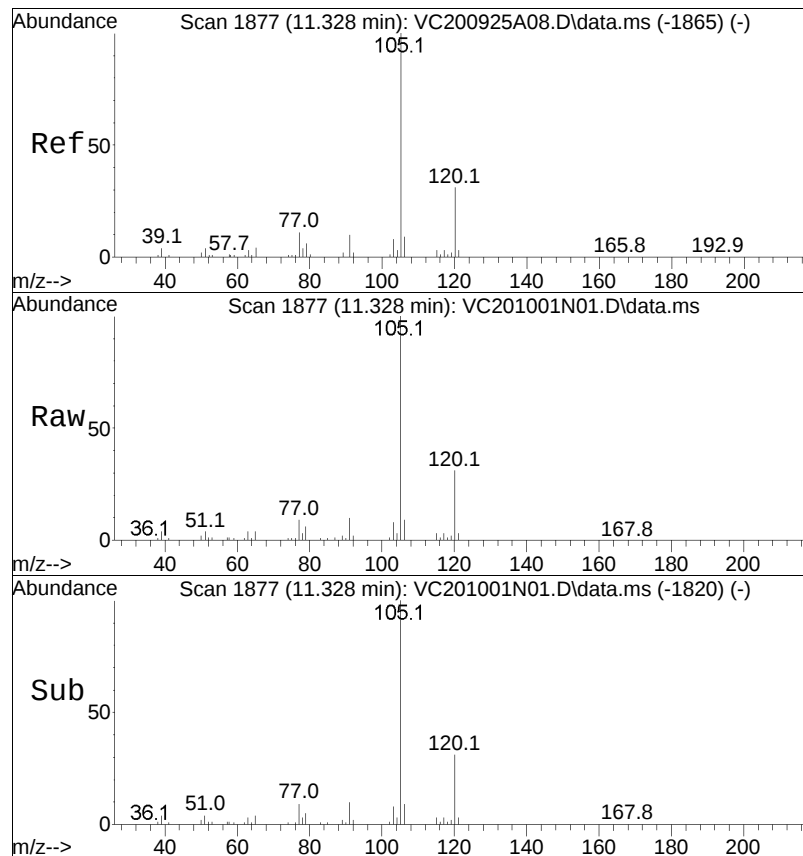




#87
 1,1,2,2-Tetrachloroethane
 Concen: 39.06 ug/L
 RT: 11.296 min Scan# 1871
 Delta R.T. 0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

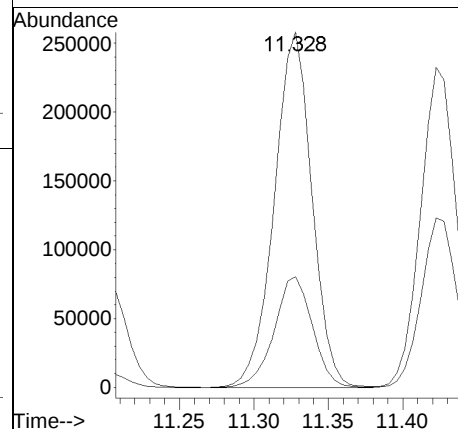
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	96176		
131	10.7	0.0	30.9	
85	65.3	45.5	85.5	

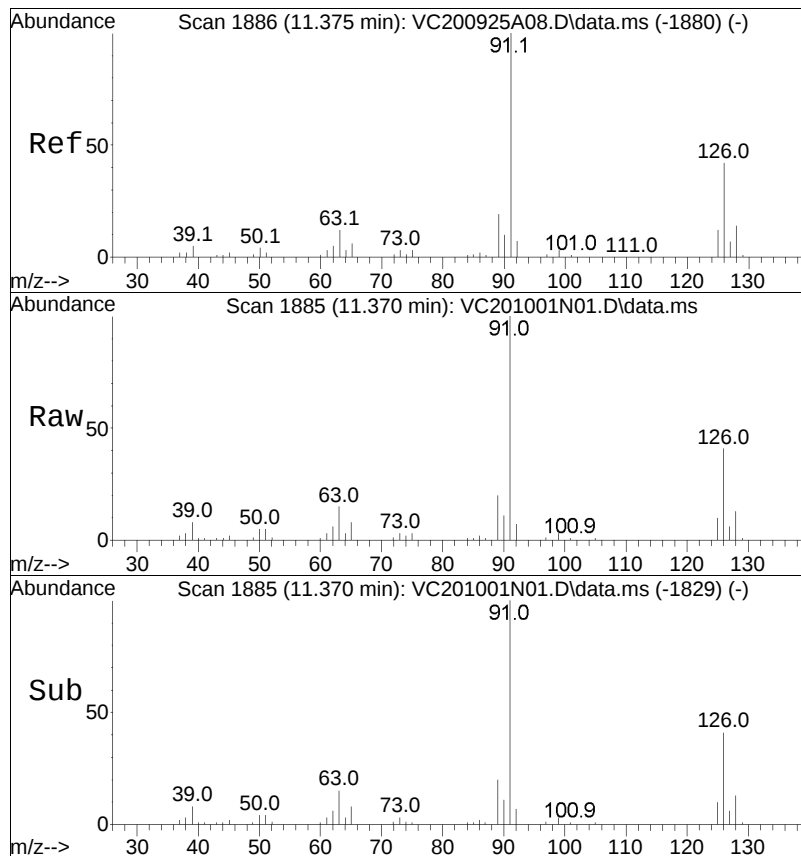




#88
 4-Ethyltoluene
 Concen: 40.47 ug/L
 RT: 11.328 min Scan# 1877
 Delta R.T. -0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

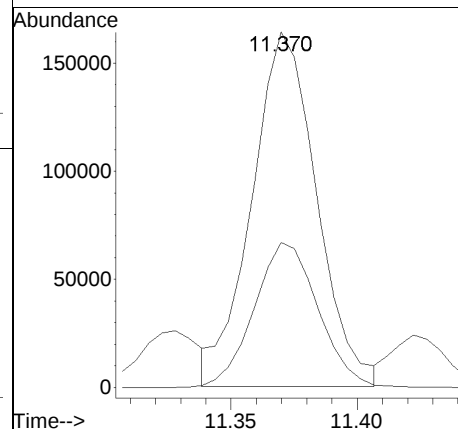
Tgt Ion	Ratio	Lower	Upper
105	100		
120	31.6	20.3	42.3

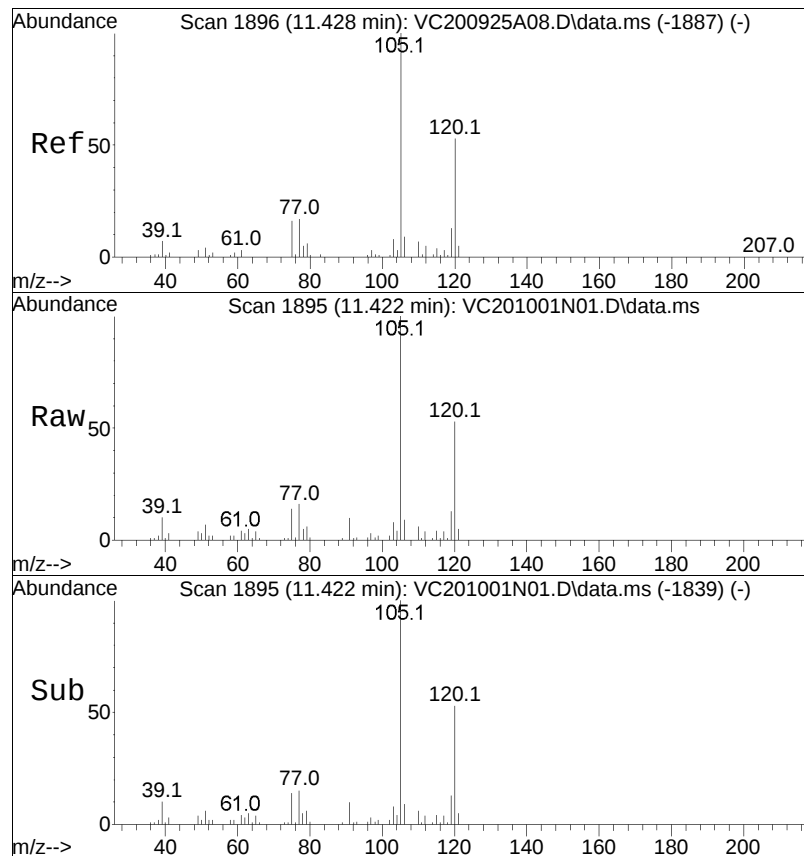




#89
 2-Chlorotoluene
 Concen: 38.87 ug/L
 RT: 11.370 min Scan# 1885
 Delta R.T. -0.005 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

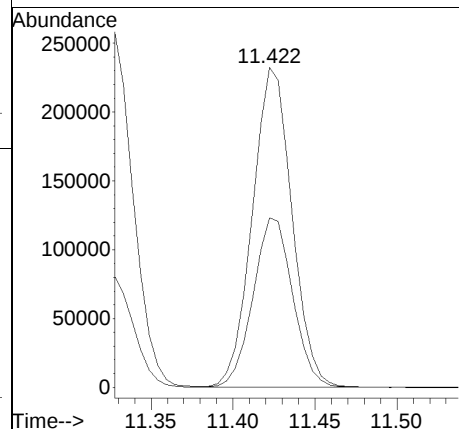
Tgt	Ion	Resp	Lower	Upper
91	100	293218		
126	40.4	29.6	44.4	

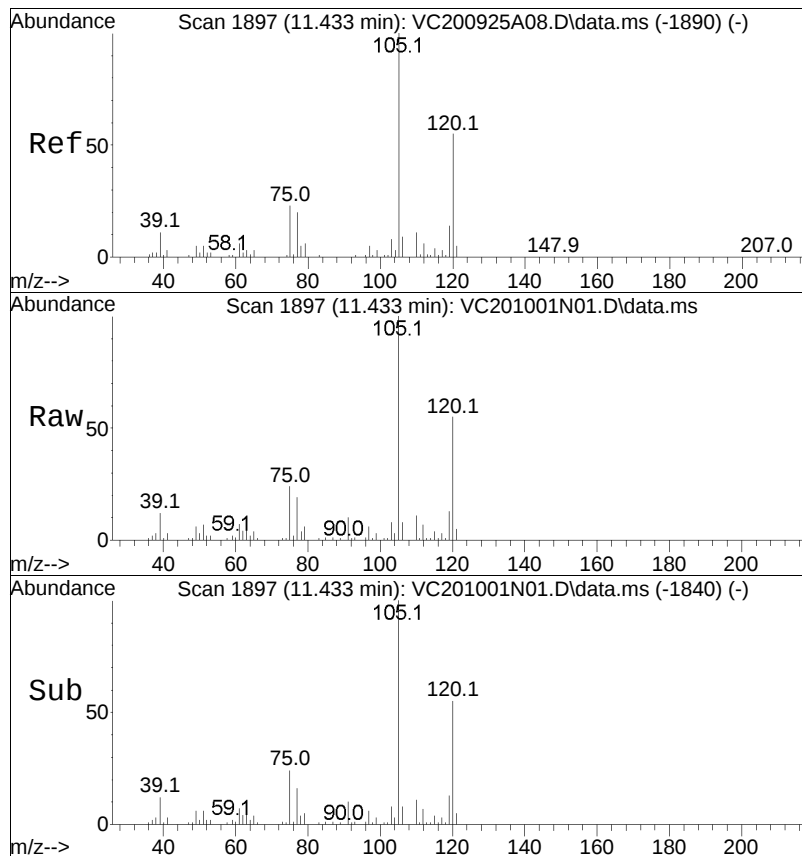




#90
 1,3,5-Trimethylbenzene
 Concen: 39.33 ug/L
 RT: 11.422 min Scan# 1895
 Delta R.T. -0.006 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

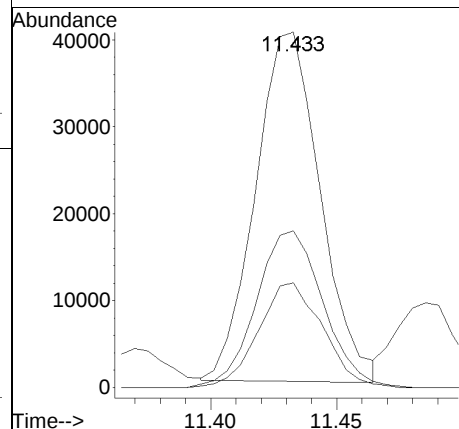
Tgt Ion	105	120	Ratio	Lower	Upper
Resp	389465				
Ratio	100	53.3		41.0	61.4

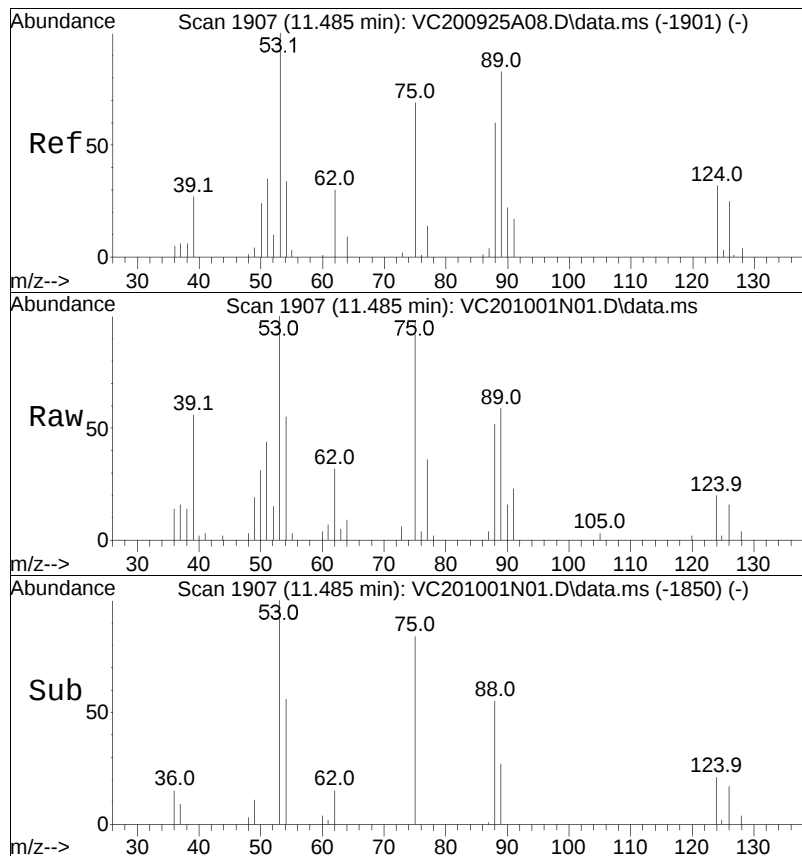




#91
 1,2,3-Trichloropropane
 Concen: 37.02 ug/L
 RT: 11.433 min Scan# 1897
 Delta R.T. -0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

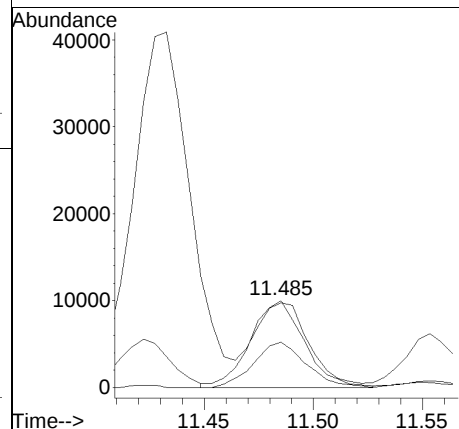
Tgt Ion	Ratio	Resp	Lower	Upper
75	100	71848		
110	46.1		27.6	57.2
112	29.6		17.7	36.7

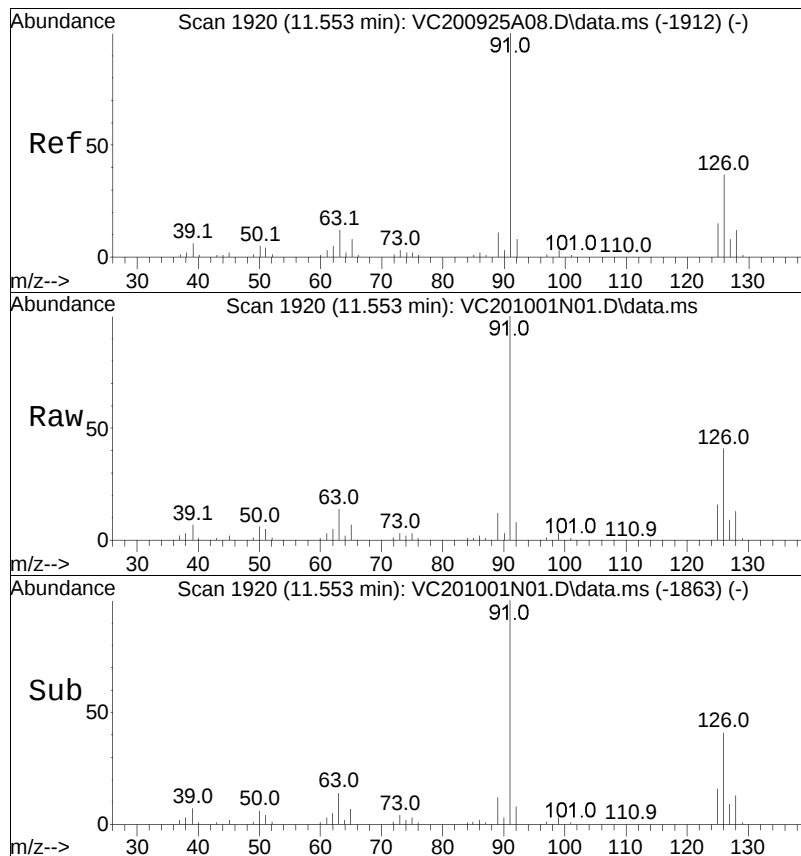




#92
 trans-1,4-Dichloro-2-butene
 Concen: 33.49 ug/L
 RT: 11.485 min Scan# 1907
 Delta R.T. 0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

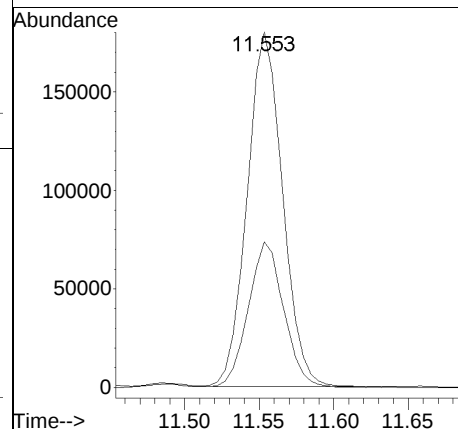
Tgt Ion	Ratio	Lower	Upper
53	100		
88	50.8	48.2	72.4
75	99.0	114.2	171.2#

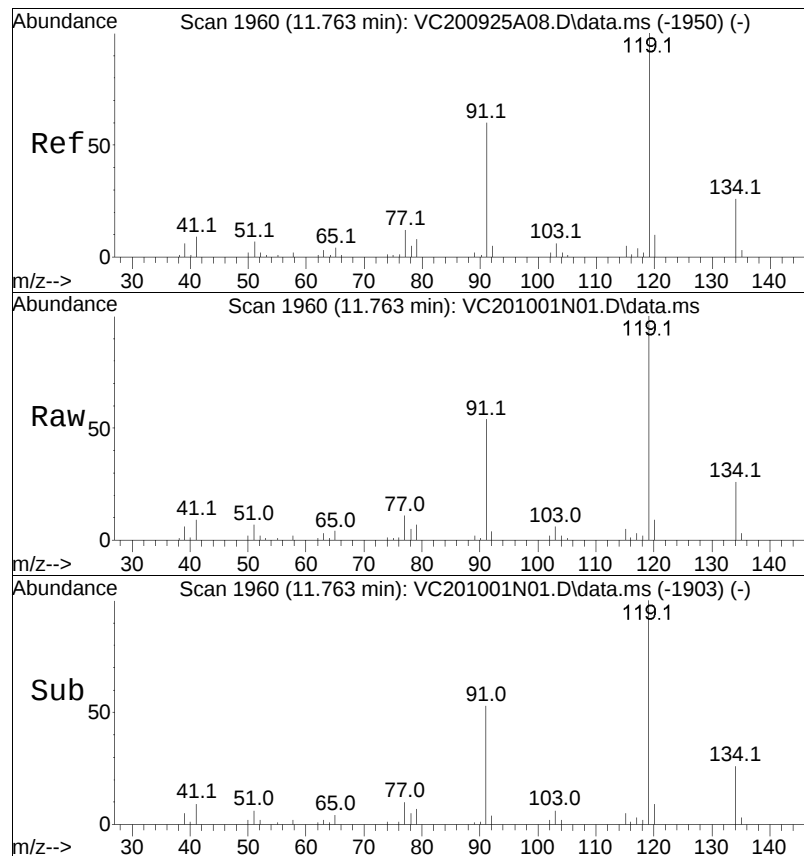




#93
 4-Chlorotoluene
 Concen: 38.55 ug/L
 RT: 11.553 min Scan# 1920
 Delta R.T. 0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

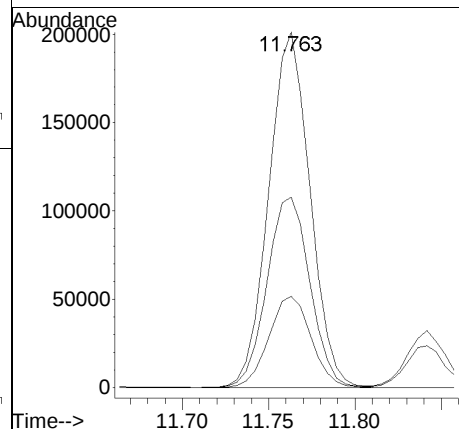
Tgt Ion:	91	Resp:	297920
Ion Ratio	Lower	Upper	
91	100		
126	41.0	29.9	44.9

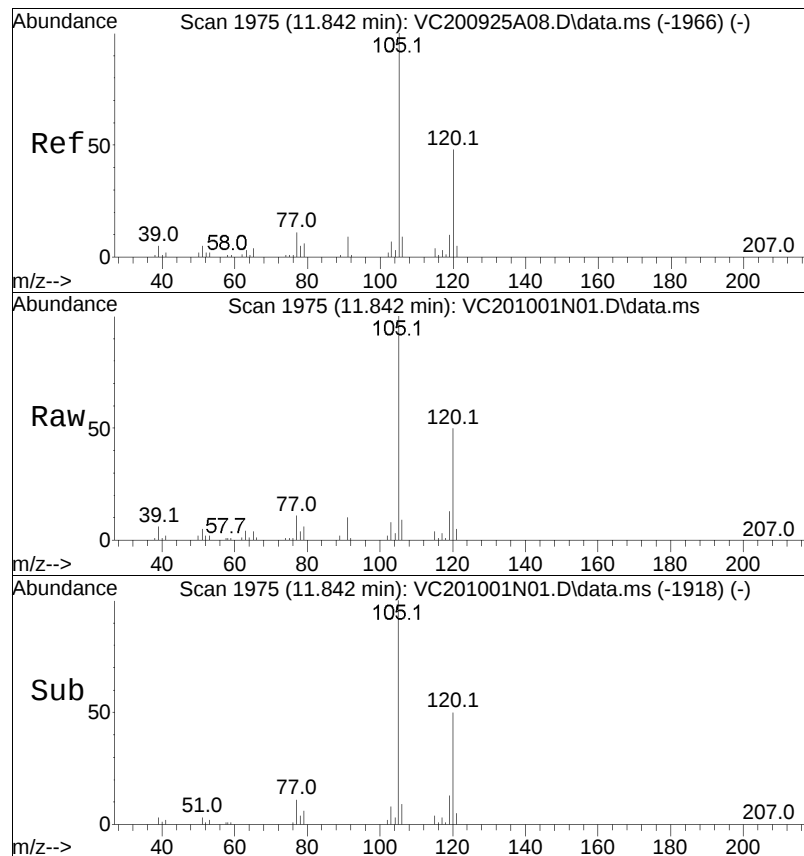




#94
 tert-Butylbenzene
 Concen: 39.26 ug/L
 RT: 11.763 min Scan# 1960
 Delta R.T. 0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

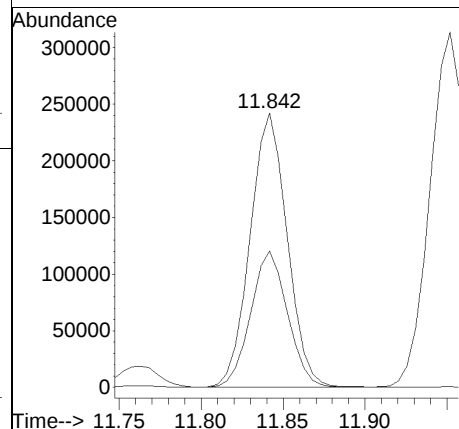
Tgt	Ion	Ratio	Lower	Upper
119	100			
91	55.7	49.9	74.9	
134	26.2	20.5	30.7	

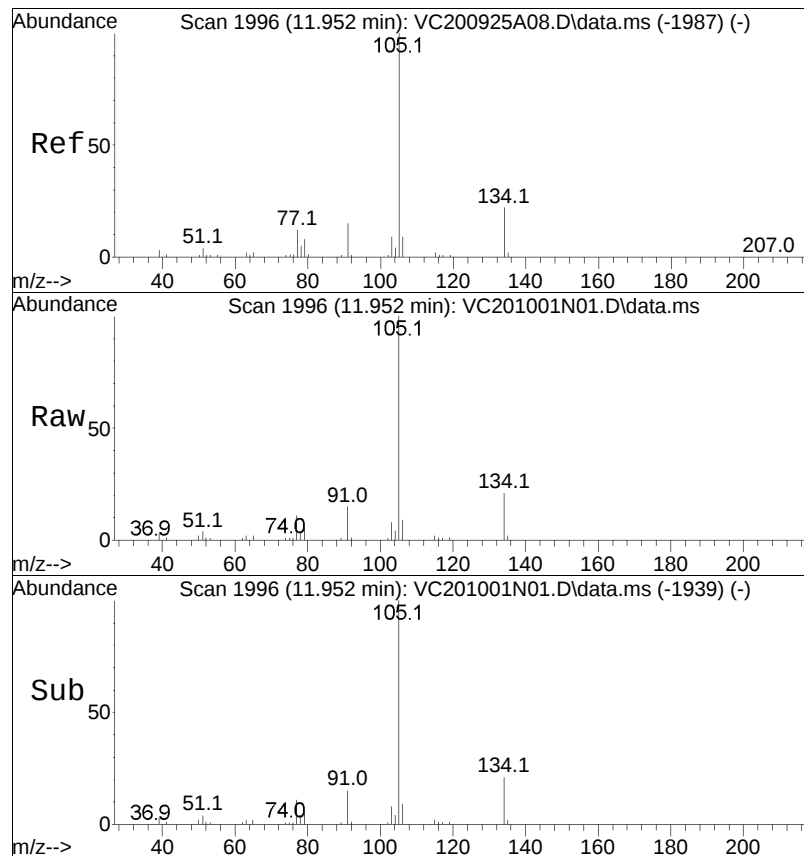




#97
 1,2,4-Trimethylbenzene
 Concen: 39.38 ug/L
 RT: 11.842 min Scan# 1975
 Delta R.T. -0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

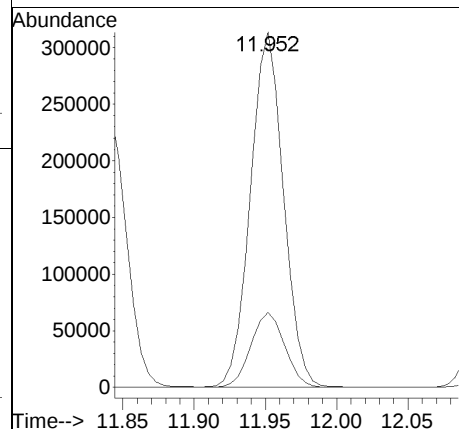
Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.5	38.2	57.4

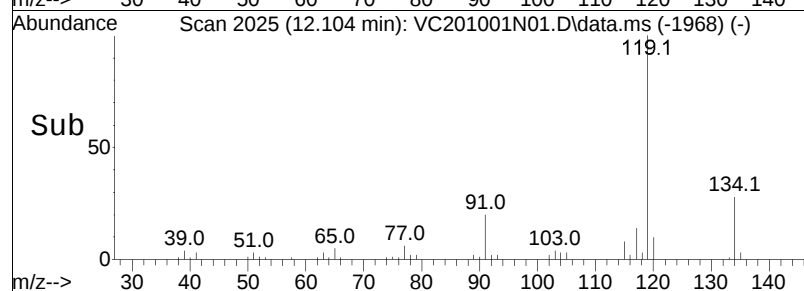
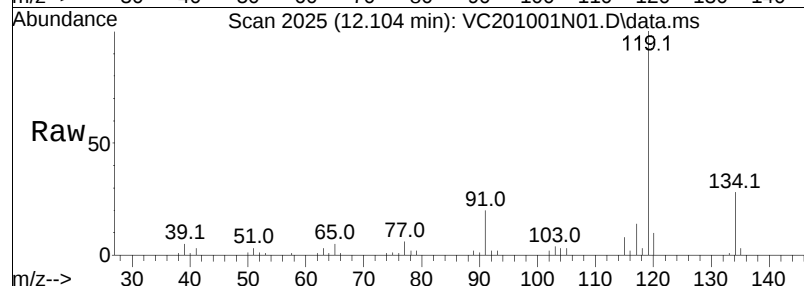
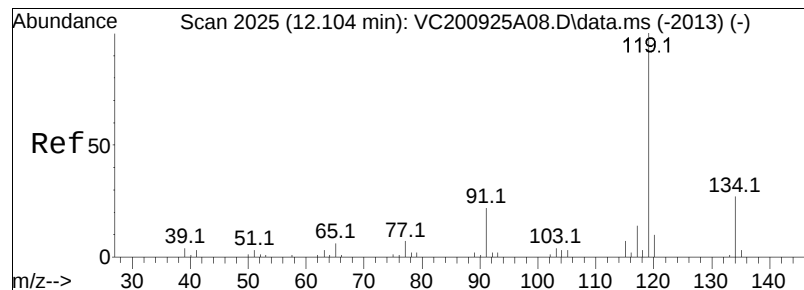




#98
 sec-Butylbenzene
 Concen: 39.68 ug/L
 RT: 11.952 min Scan# 1996
 Delta R.T. -0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

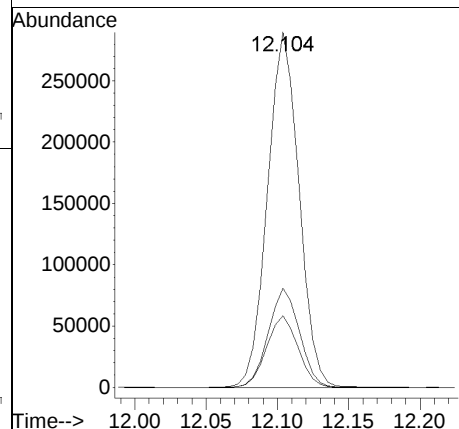
Tgt Ion	Ratio	Lower	Upper
105	100		
134	21.6	13.5	27.9

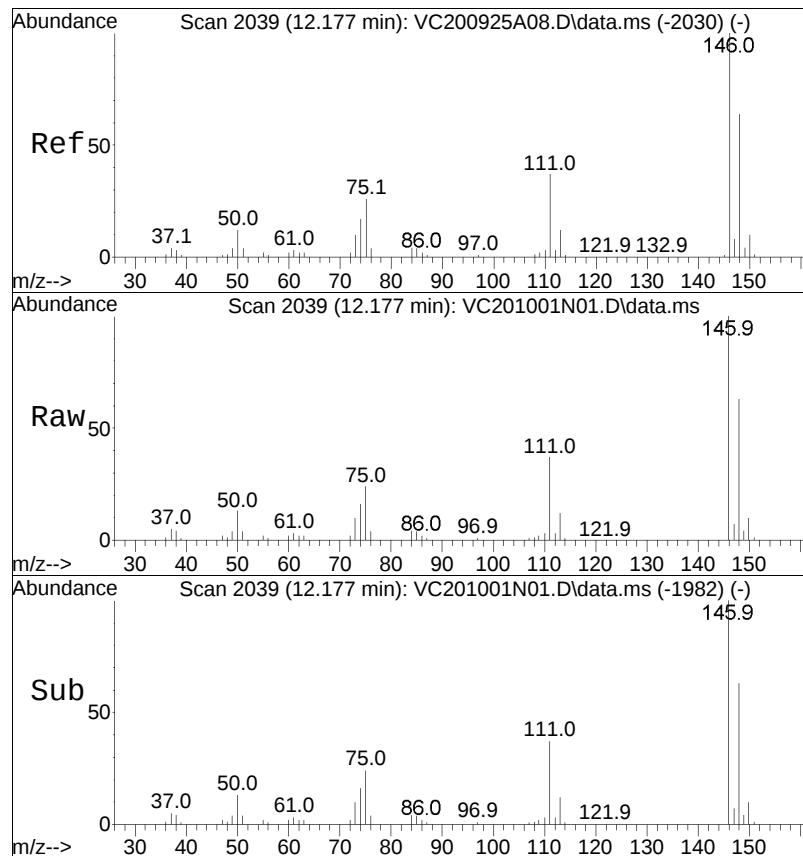




#99
 p-Isopropyltoluene
 Concen: 39.32 ug/L
 RT: 12.104 min Scan# 2025
 Delta R.T. -0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

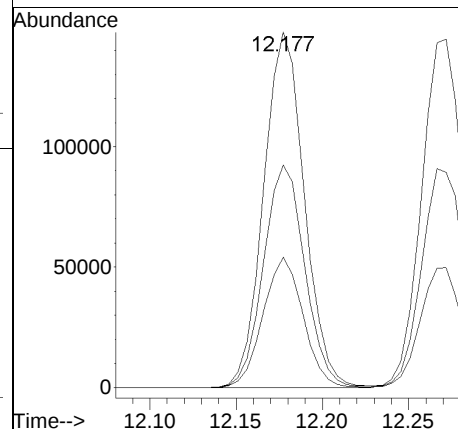
Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.7	17.0	35.4
91	20.2	14.0	29.2

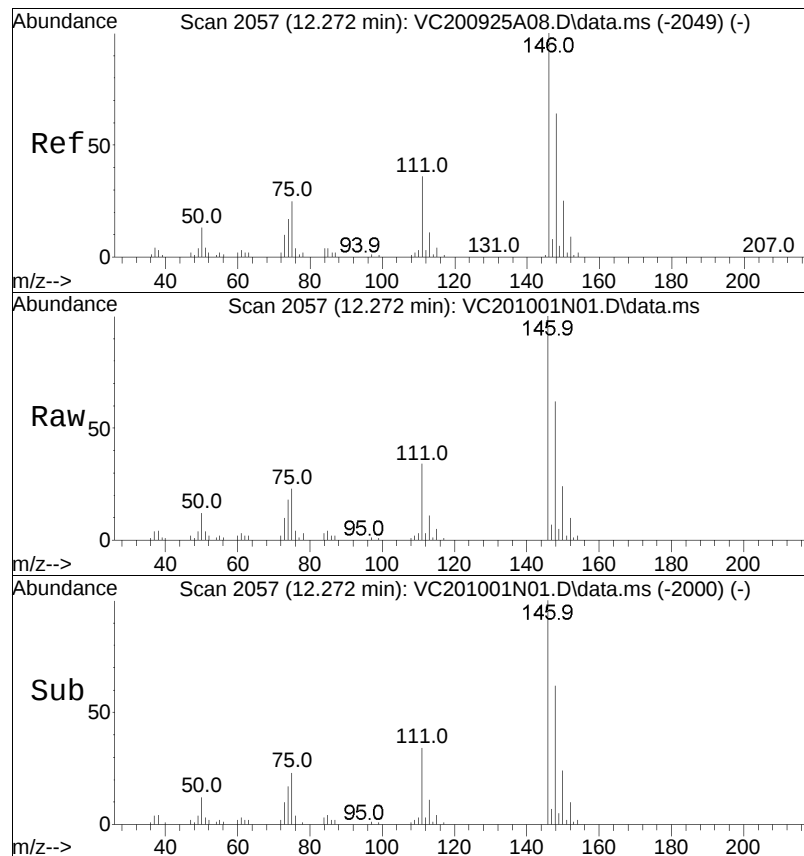




#100
 1,3-Dichlorobenzene
 Concen: 38.44 ug/L
 RT: 12.177 min Scan# 2039
 Delta R.T. 0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

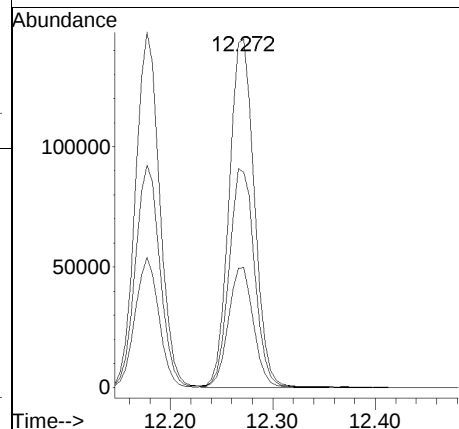
Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.0	24.9	51.7
148	63.6	41.6	86.4

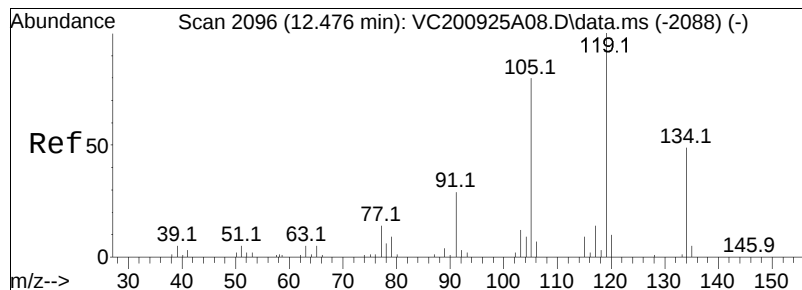




#101
 1,4-Dichlorobenzene
 Concen: 38.37 ug/L
 RT: 12.272 min Scan# 2057
 Delta R.T. -0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

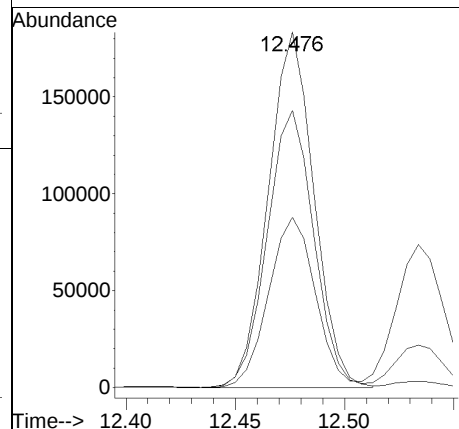
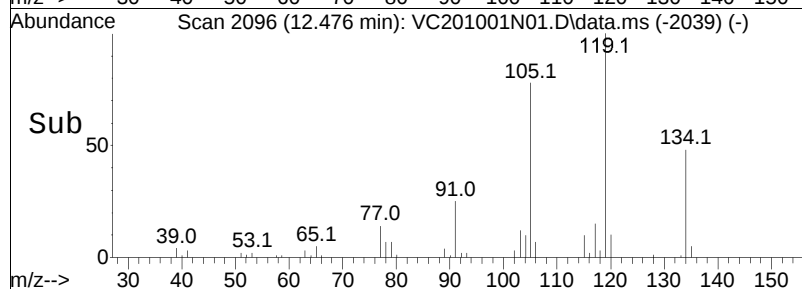
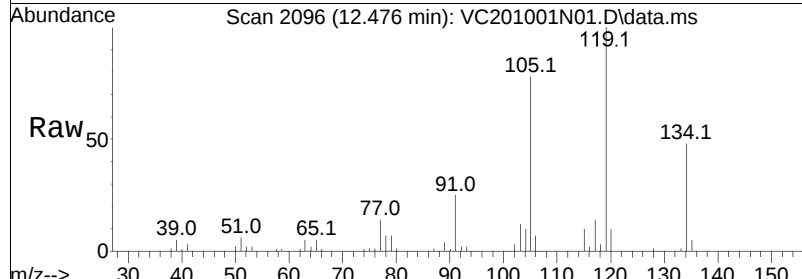
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	248292		
111	34.2		29.5	44.3
148	63.2		52.1	78.1

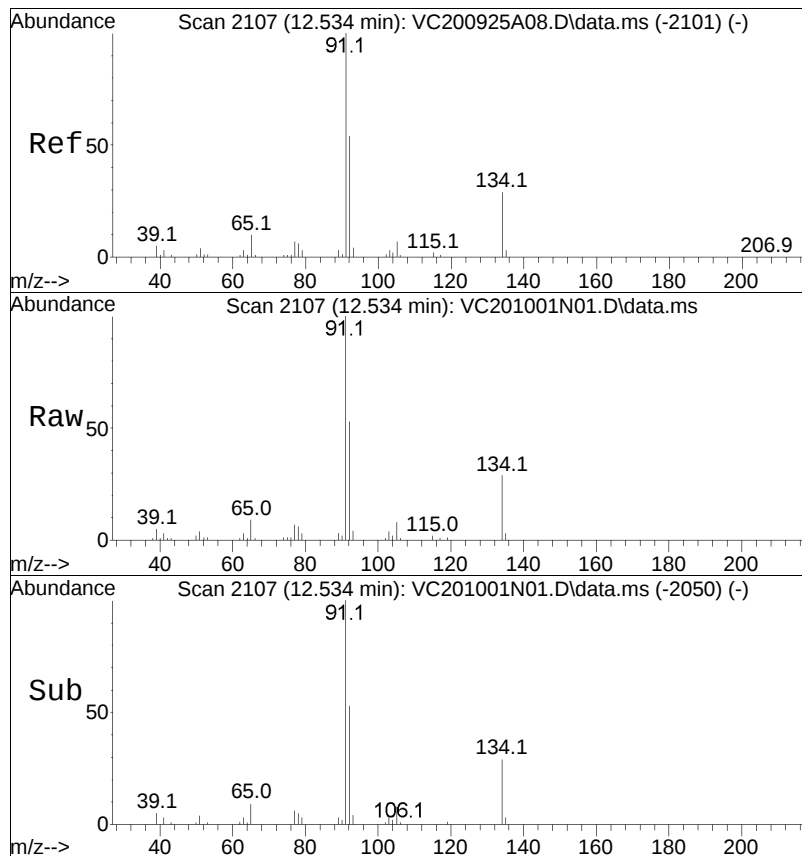




#102
 p-Diethylbenzene
 Concen: 40.28 ug/L
 RT: 12.476 min Scan# 2096
 Delta R.T. 0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

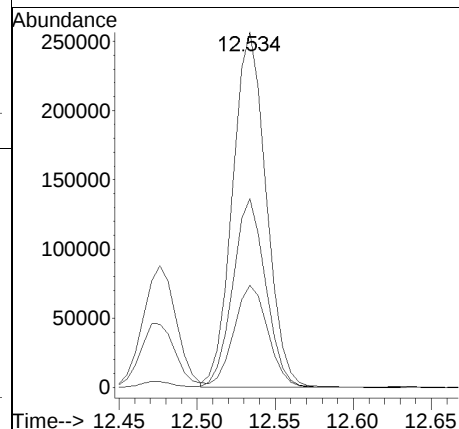
Tgt Ion:	119	Resp:	266495
Ion Ratio	Lower	Upper	
119	100		
105	79.4	53.3	110.7
134	49.3	30.4	63.0

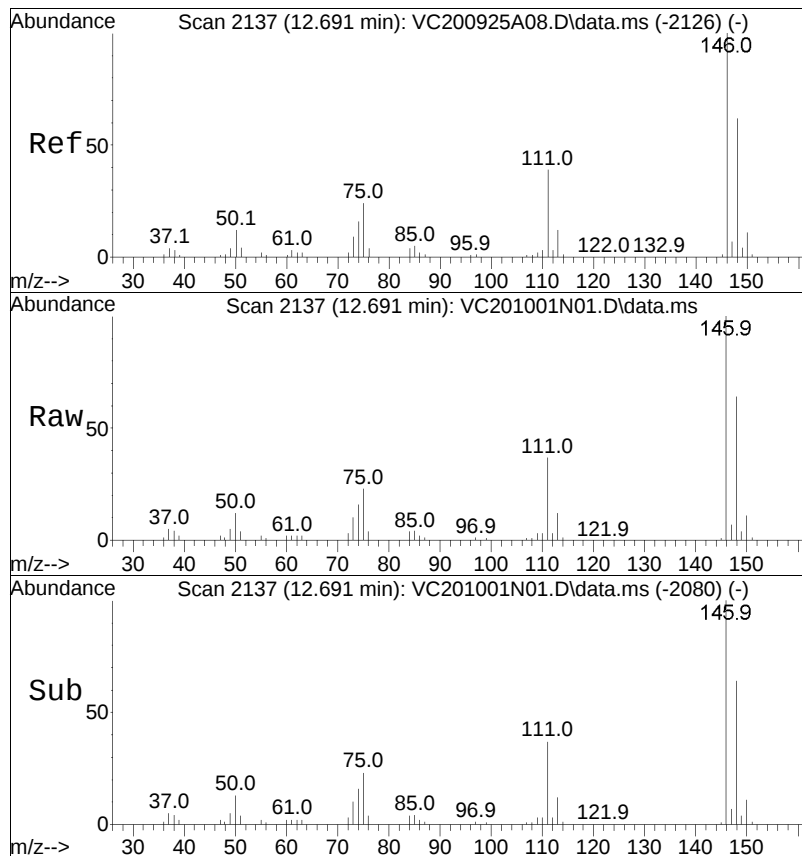




#103
 n-Butylbenzene
 Concen: 41.09 ug/L
 RT: 12.534 min Scan# 2107
 Delta R.T. -0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

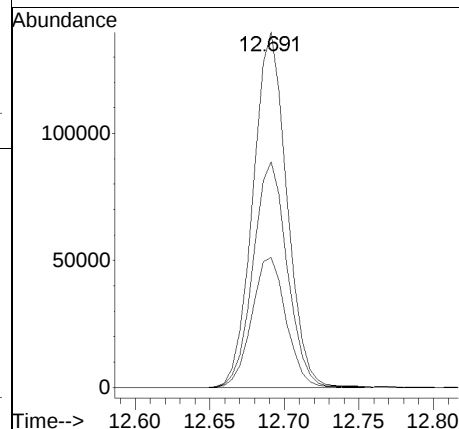
Tgt	Ion	Ratio	Resp	Lower	Upper
91	100		384193		
92	52.2	43.5	65.3		
134	28.9	22.6	34.0		

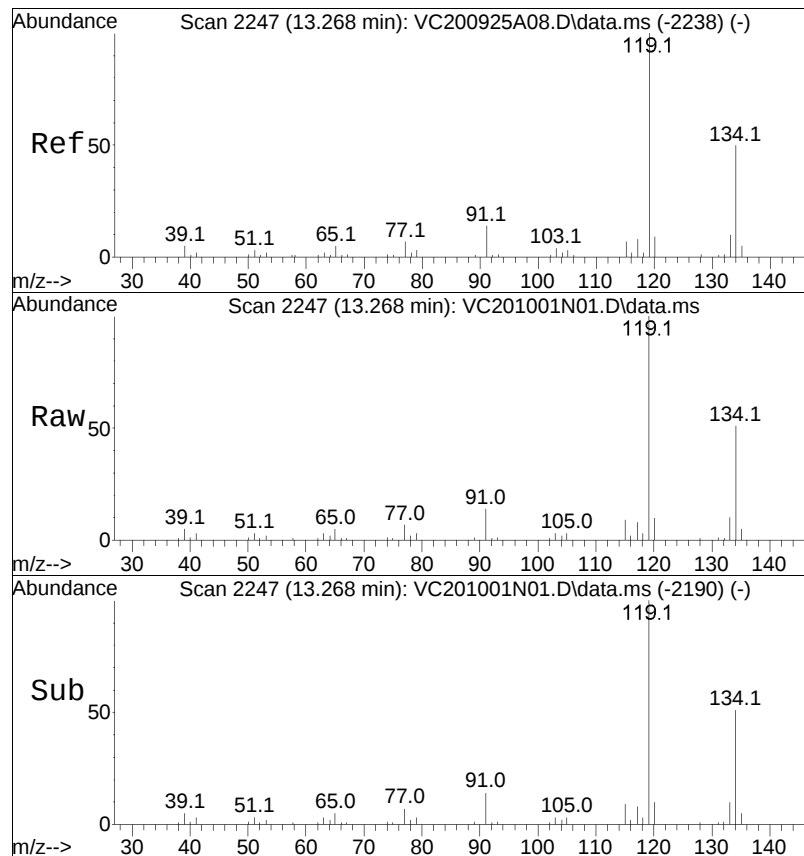




#104
 1,2-Dichlorobenzene
 Concen: 37.59 ug/L
 RT: 12.691 min Scan# 2137
 Delta R.T. 0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

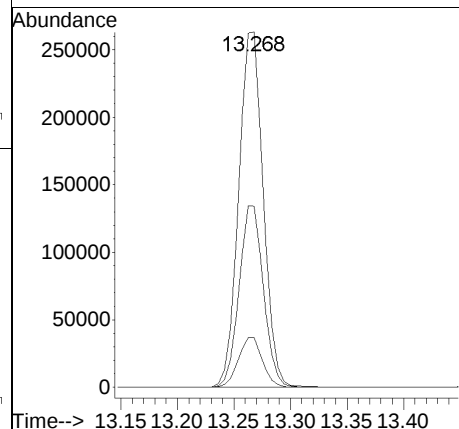
Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.0	25.4	52.8
148	64.0	41.8	86.8

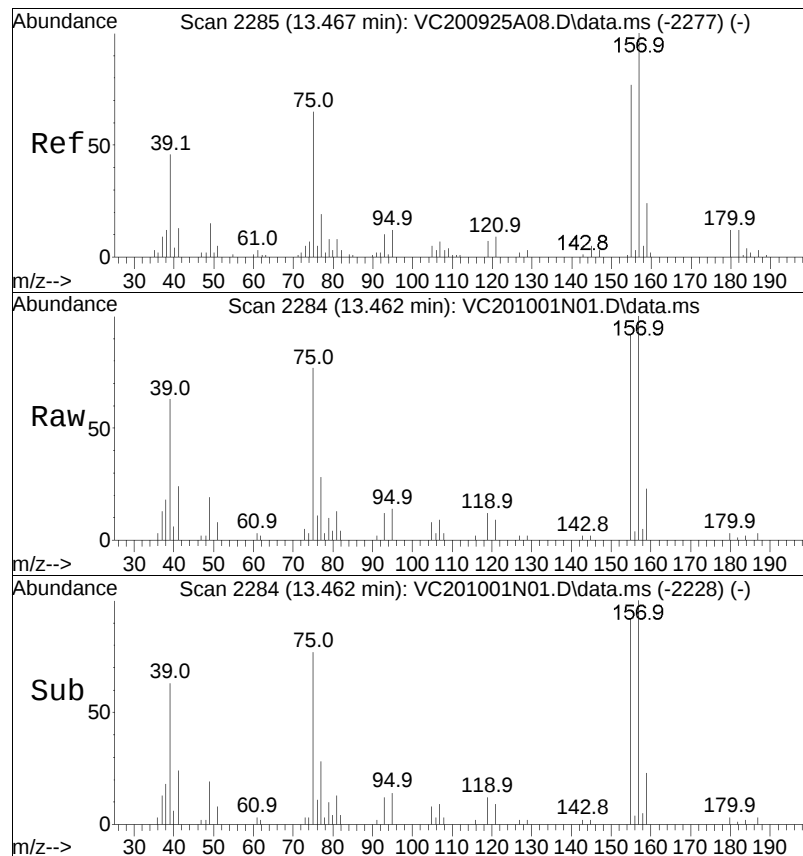




#105
 1,2,4,5-Tetramethylbenzene
 Concen: 38.52 ug/L
 RT: 13.268 min Scan# 2247
 Delta R.T. -0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

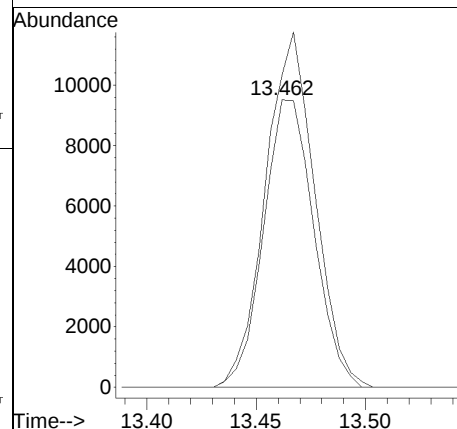
Tgt Ion	119	134	91	Ratio	Lower	Upper
119	100					
134	50.6	31.1			64.5	
91	13.8	9.8			20.4	

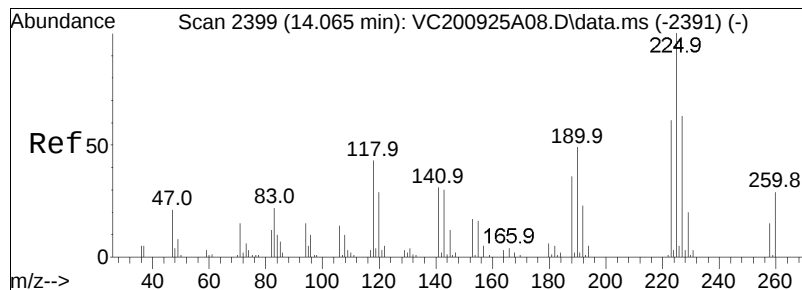




#106
 1,2-Dibromo-3-chloropropane
 Concen: 31.53 ug/L
 RT: 13.462 min Scan# 2284
 Delta R.T. -0.005 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

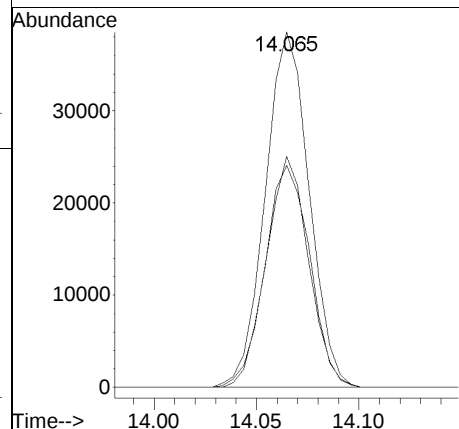
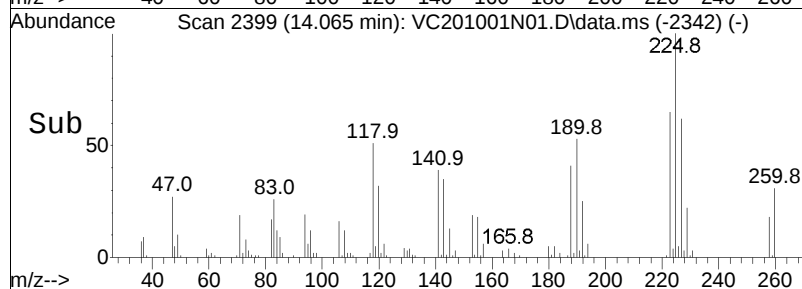
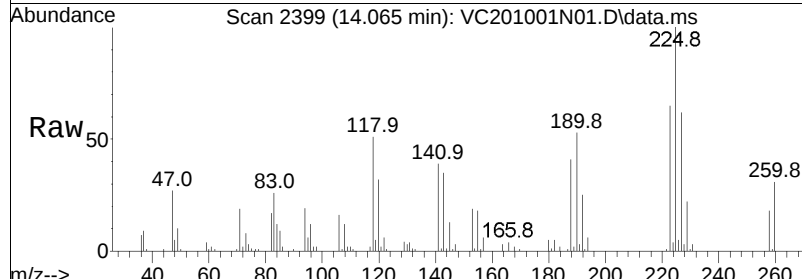
Tgt	Ion	Ratio	Lower	Upper
155	100			
157	121.2	103.0	154.6	

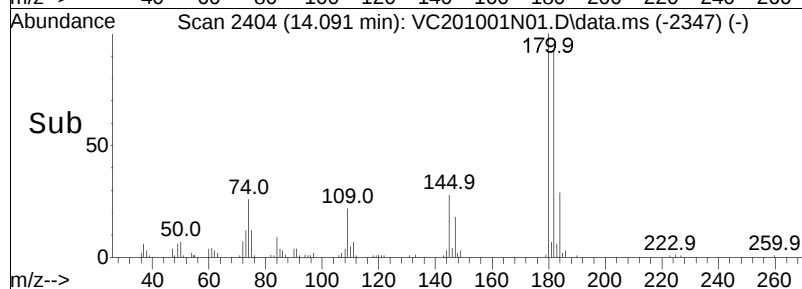
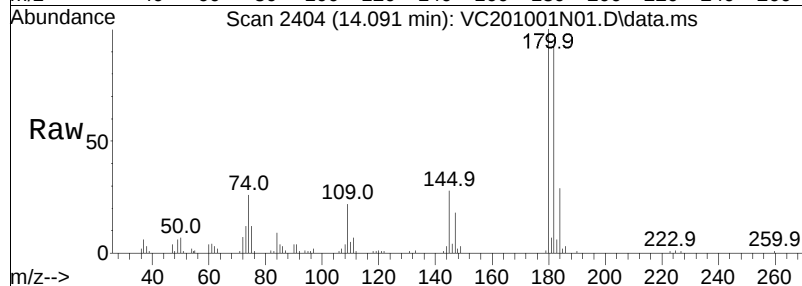
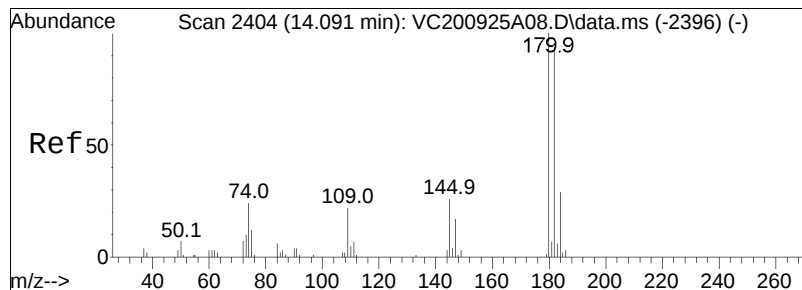




#108
 Hexachlorobutadiene
 Concen: 35.80 ug/L
 RT: 14.065 min Scan# 2399
 Delta R.T. -0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

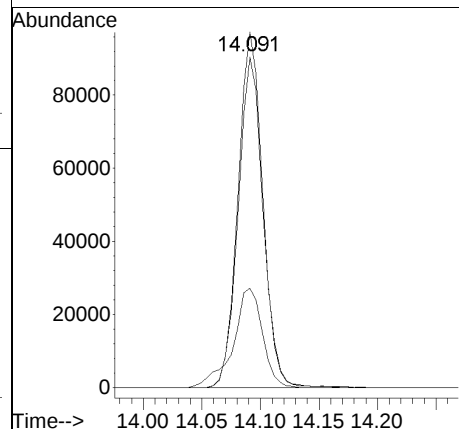
Tgt	Ion:225	Resp:	57464
Ion	Ratio	Lower	Upper
225	100		
223	63.2	50.0	75.0
227	63.6	52.0	78.0

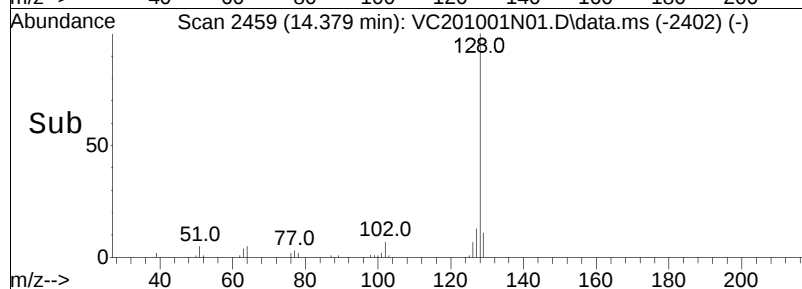
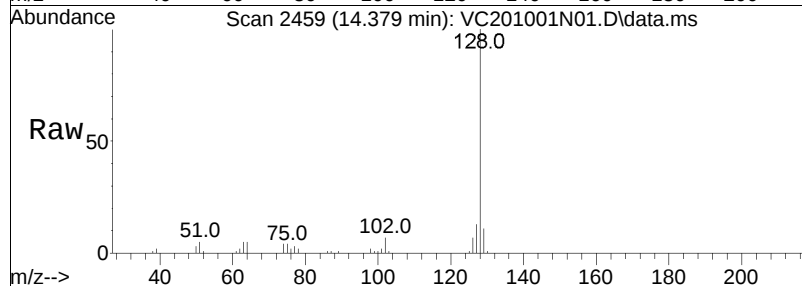
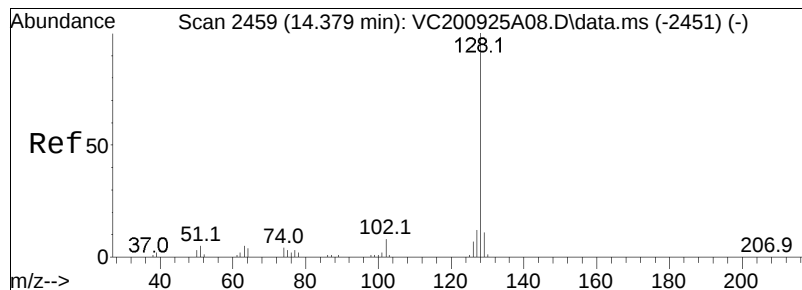




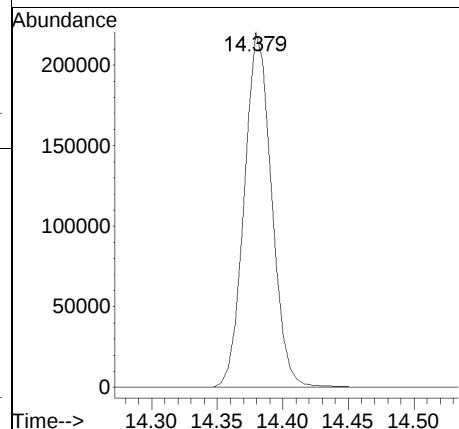
#109
 1,2,4-Trichlorobenzene
 Concen: 41.13 ug/L
 RT: 14.091 min Scan# 2404
 Delta R.T. -0.000 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

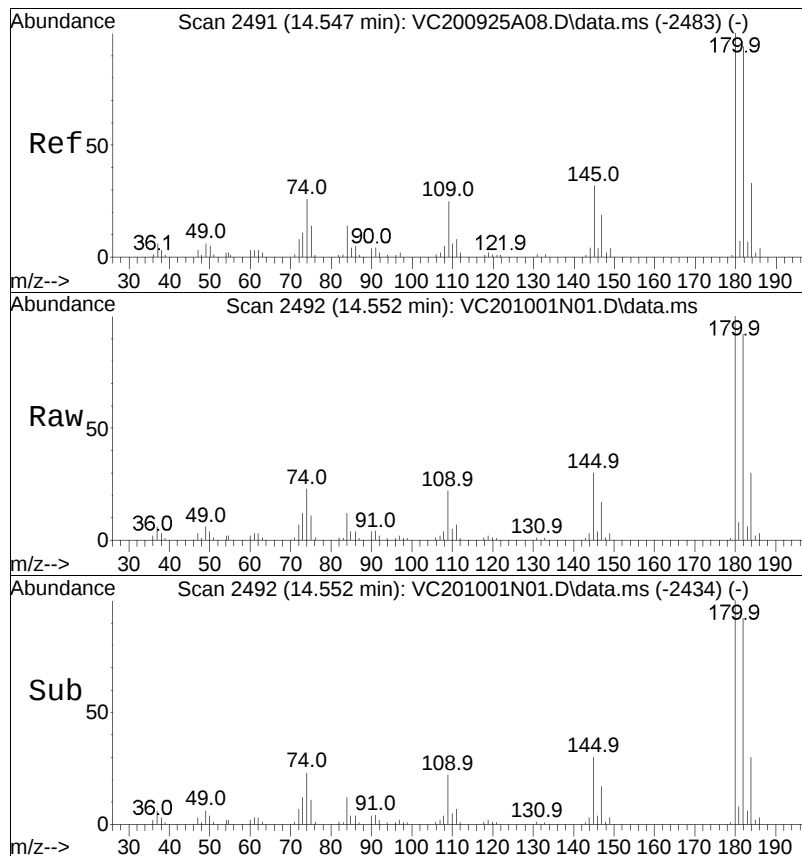
Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.3	77.4	116.2
145	32.9	26.8	40.2





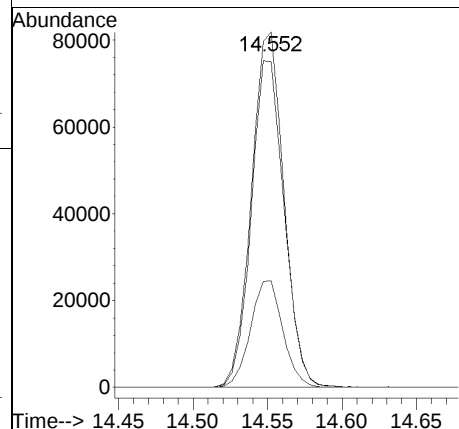
#110
Naphthalene
Concen: 37.33 ug/L
RT: 14.379 min Scan# 2459
Delta R.T. 0.000 min
Lab File: VC201001N01.D
Acq: 1 Oct 2020 5:38 pm
Tgt Ion:128 Resp: 320000





#111
 1,2,3-Trichlorobenzene
 Concen: 37.25 ug/L
 RT: 14.552 min Scan# 2492
 Delta R.T. 0.005 min
 Lab File: VC201001N01.D
 Acq: 1 Oct 2020 5:38 pm

Tgt Ion:	180	Resp:	124366
Ion Ratio	Lower	Upper	
180	100		
182	92.7	75.9	113.9
145	29.9	24.4	36.6



Manual Integration Report

Data Path	: I:\VOLATILES\Charlie\2020\Q	Method	: C_200925A_8260.m
Data File	: VC201001N01.D	Operator	: CHARLIE:AD
Date Inj'd	: 10/1/2020 5:38 pm	Instrument	: Charlie
Sample	: WG1417205-3,31,5,5	Quant Date	: 10/1/2020 6:20 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N02.D
 Acq On : 1 Oct 2020 6:05 pm
 Operator : CHARLIE:AD
 Sample : WG1417205-4,31,5,5
 Misc : WG1417205,ICAL17178
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 01 18:28:24 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\201001N\VC201001N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.033	96	174186	20.000	ug/L	0.00
Standard Area 1 = 153806			Recovery =	113.25%		
59) Chlorobenzene-d5	9.561	117	149481	20.000	ug/L	-0.01
Standard Area 1 = 132392			Recovery =	112.91%		
79) 1,4-Dichlorobenzene-d4	12.251	152	90927	20.000	ug/L	0.00
Standard Area 1 = 78752			Recovery =	115.46%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.225	113	45168	19.428	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	97.14%		
43) 1,2-Dichloroethane-d4	5.749	65	36337	18.137	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	90.69%		
60) Toluene-d8	7.721	98	174681	19.685	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	98.42%		
83) 4-Bromofluorobenzene	11.050	95	61473	19.894	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.47%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.644	85	85027	34.538	ug/L	100
3) Chloromethane	1.843	50	60208	35.231	ug/L	100
4) Vinyl chloride	1.906	62	159469	40.624	ug/L	98
5) Bromomethane	2.221	94	151148	46.671	ug/L	100
6) Chloroethane	2.331	64	227423	55.324	ug/L	100
7) Trichlorofluoromethane	2.473	101	414873	42.891	ug/L	100
8) Ethyl ether	2.782	74	44677	37.961	ug/L	84
10) 1,1-Dichloroethene	2.971	96	73730	37.846	ug/L	92
11) Carbon disulfide	3.002	76	168648	33.079	ug/L	98
15) Methylene chloride	3.526	84	89698	34.893	ug/L	94
17) Acetone	3.568	43	13970	31.047	ug/L	94
18) trans-1,2-Dichloroethene	3.684	96	89189	39.012	ug/L	88
20) Methyl tert-butyl ether	3.773	73	212823	33.711	ug/L	94
23) 1,1-Dichloroethane	4.260	63	130692	36.202	ug/L	99
25) Acrylonitrile	4.313	53	16593	33.390	ug/L	93
27) Vinyl acetate	4.496	43	135708	29.878	ug/L	# 93
28) cis-1,2-Dichloroethene	4.785	96	100921	37.919	ug/L	92
29) 2,2-Dichloropropane	4.879	77	86315	27.273	ug/L	93
30) Bromochloromethane	4.974	128	50771	36.119	ug/L	93
32) Chloroform	5.047	83	150728	35.628	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N02.D
 Acq On : 1 Oct 2020 6:05 pm
 Operator : CHARLIE:AD
 Sample : WG1417205-4,31,5,5
 Misc : WG1417205,ICAL17178
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 01 18:28:24 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\201001N\VC201001N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	5.183	117	117815	34.882	ug/L	98
37) 1,1,1-Trichloroethane	5.246	97	125292	34.973	ug/L	97
39) 2-Butanone	5.341	43	24941	31.826	ug/L #	80
40) 1,1-Dichloropropene	5.372	75	108196	36.699	ug/L	97
41) Benzene	5.613	78	347430	34.318	ug/L	97
44) 1,2-Dichloroethane	5.818	62	101025	35.464	ug/L	99
48) Trichloroethene	6.211	95	94868	36.589	ug/L	98
50) Dibromomethane	6.657	93	57208	37.628	ug/L	98
51) 1,2-Dichloropropane	6.751	63	79540	37.147	ug/L	96
54) Bromodichloromethane	6.830	83	117547	33.025	ug/L	99
57) 1,4-Dioxane	7.034	88	50523	1917.019	ug/L	90
58) cis-1,3-Dichloropropene	7.516	75	125816	32.321	ug/L	96
61) Toluene	7.779	92	230778	35.450	ug/L	98
62) 4-Methyl-2-pentanone	8.208	58	26266	37.596	ug/L	86
63) Tetrachloroethene	8.229	166	107288	35.006	ug/L	99
65) trans-1,3-Dichloropropene	8.266	75	101276	30.975	ug/L	96
68) 1,1,2-Trichloroethane	8.450	83	67844	35.543	ug/L	94
69) Chlorodibromomethane	8.665	129	98709	32.318	ug/L	99
70) 1,3-Dichloropropane	8.769	76	131763	37.707	ug/L	99
71) 1,2-Dibromoethane	8.937	107	84226	38.229	ug/L	100
72) 2-Hexanone	9.215	43	41137	33.564	ug/L	93
73) Chlorobenzene	9.582	112	293273	33.226	ug/L	96
74) Ethylbenzene	9.619	91	458260	35.190	ug/L	98
75) 1,1,1,2-Tetrachloroethane	9.666	131	102484	32.153	ug/L	99
76) p/m Xylene	9.802	106	399781	68.601	ug/L	95
77) o Xylene	10.342	106	382889	67.618	ug/L	95
78) Styrene	10.411	104	676702	67.203	ug/L	95
80) Bromoform	10.442	173	67896	31.108	ug/L	99
82) Isopropylbenzene	10.720	105	493186	38.013	ug/L	100
84) Bromobenzene	11.160	156	134402	37.459	ug/L	100
85) n-Propylbenzene	11.197	91	584575	39.001	ug/L	98
87) 1,1,2,2-Tetrachloroethane	11.291	83	111095	39.077	ug/L	99
88) 4-Ethyltoluene	11.323	105	501134	38.752	ug/L	99
89) 2-Chlorotoluene	11.370	91	325441	37.370	ug/L	94
90) 1,3,5-Trimethylbenzene	11.422	105	431404	37.731	ug/L	97
91) 1,2,3-Trichloropropane	11.428	75	86189	38.459	ug/L	97
92) trans-1,4-Dichloro-2-b...	11.480	53	20405	34.573	ug/L #	74
93) 4-Chlorotoluene	11.548	91	337046	37.777	ug/L	94
94) tert-Butylbenzene	11.758	119	367708	37.381	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
 Data File : VC201001N02.D
 Acq On : 1 Oct 2020 6:05 pm
 Operator : CHARLIE:AD
 Sample : WG1417205-4,31,5,5
 Misc : WG1417205,ICAL17178
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 01 18:28:24 2020
 Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 29 14:02:31 2020
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2020\201001N\VC201001N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	11.837	105	427614	38.187	ug/L	98
98)	sec-Butylbenzene	11.952	105	561814	38.196	ug/L	98
99)	p-Isopropyltoluene	12.099	119	498626	38.208	ug/L	97
100)	1,3-Dichlorobenzene	12.172	146	271053	37.325	ug/L	99
101)	1,4-Dichlorobenzene	12.267	146	279706	37.441	ug/L	98
102)	p-Diethylbenzene	12.471	119	299669	39.232	ug/L	97
103)	n-Butylbenzene	12.529	91	429855	39.814	ug/L	98
104)	1,2-Dichlorobenzene	12.686	146	252645	37.182	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.263	119	454669	38.112	ug/L	96
106)	1,2-Dibromo-3-chloropr...	13.462	155	18331	32.821	ug/L	95
108)	Hexachlorobutadiene	14.065	225	64788	34.960	ug/L	99
109)	1,2,4-Trichlorobenzene	14.091	180	163761	40.756	ug/L	96
110)	Naphthalene	14.380	128	384315	38.825	ug/L	100
111)	1,2,3-Trichlorobenzene	14.547	180	146111	37.908	ug/L	98

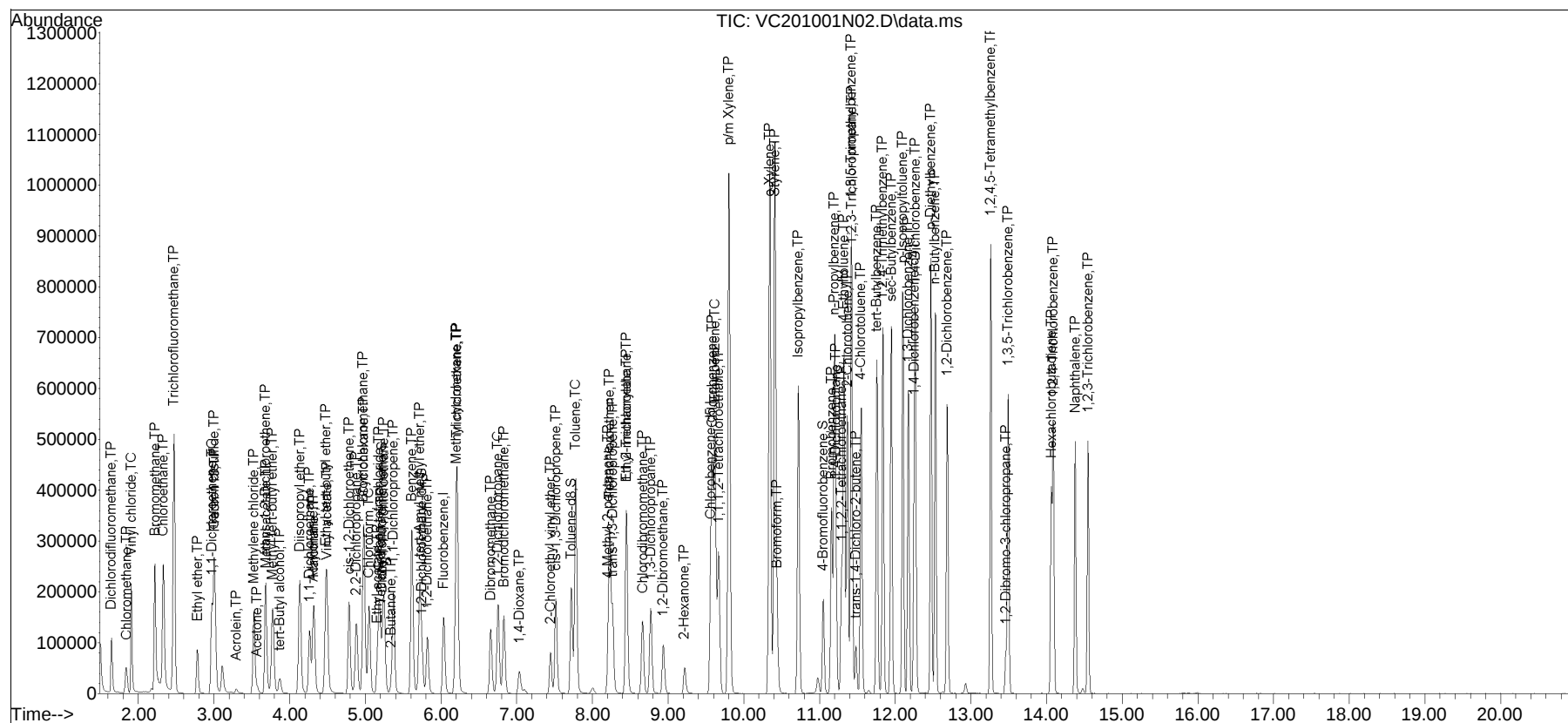
(#) = qualifier out of range (m) = manual integration (+) = signals summed

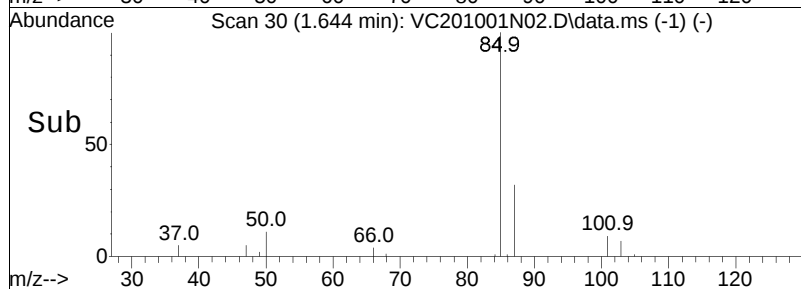
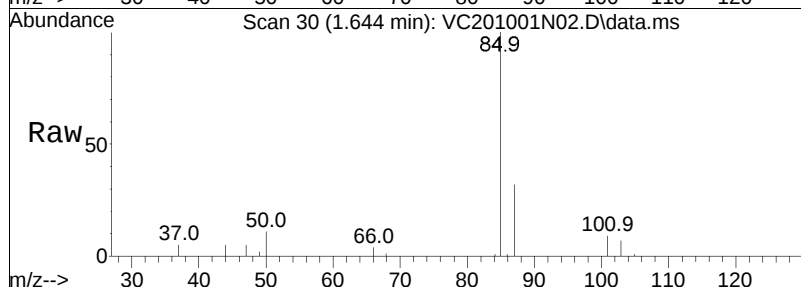
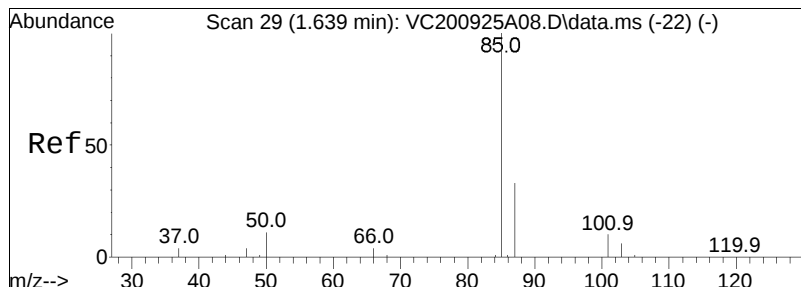
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2020\201001N\
Data File : VC201001N02.D
Acq On : 1 Oct 2020 6:05 pm
Operator : CHARLIE:AD
Sample : WG1417205-4,31,5,5
Misc : WG1417205,ICAL17178
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 01 18:28:24 2020
Quant Method : I:\VOLATILES\Charlie\2020\201001N\C_200925A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 29 14:02:31 2020
Response via : Initial Calibration

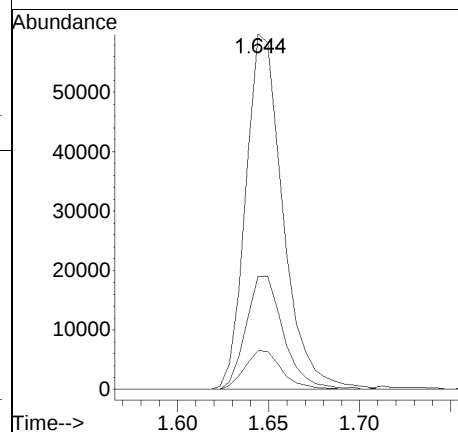
Sub List : 8260-CurveSoil - Megamix plus Diox01N\VC201001N01.D•

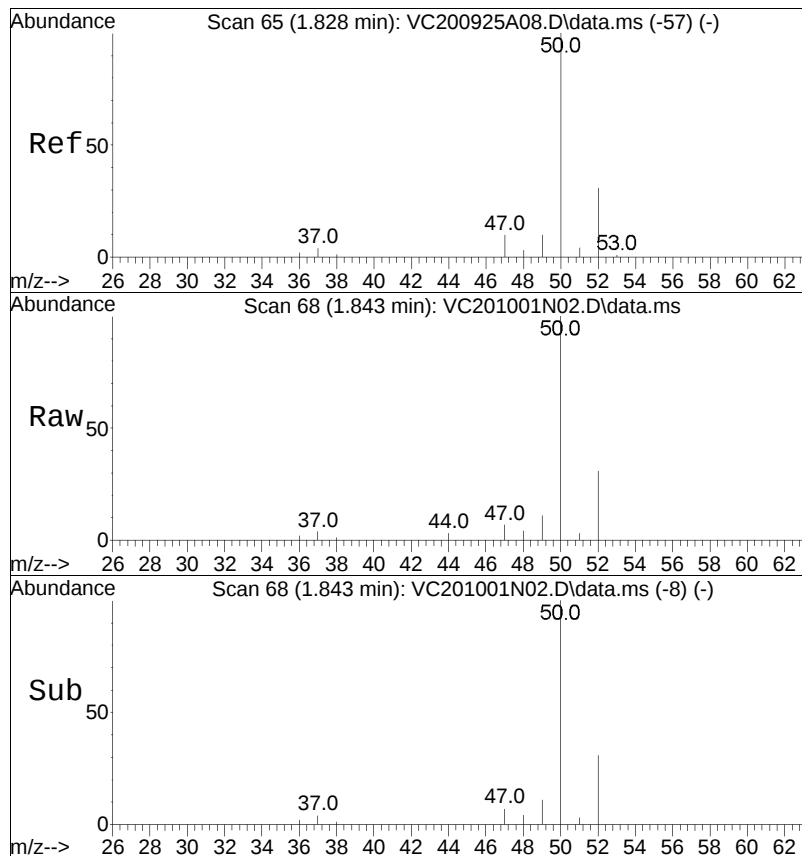




#2
 Dichlorodifluoromethane
 Concen: 34.54 ug/L
 RT: 1.644 min Scan# 30
 Delta R.T. 0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

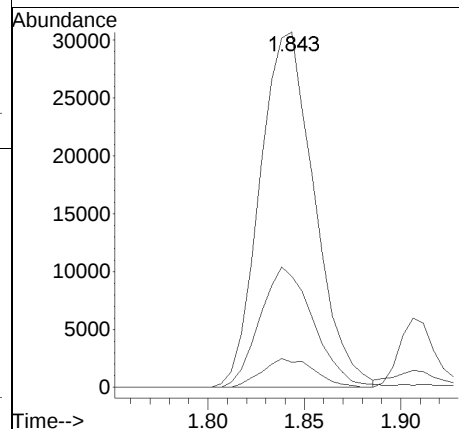
Tgt Ion	85	87	50	Ratio	100	32.2	11.0	Resp:	85027	Lower	Upper

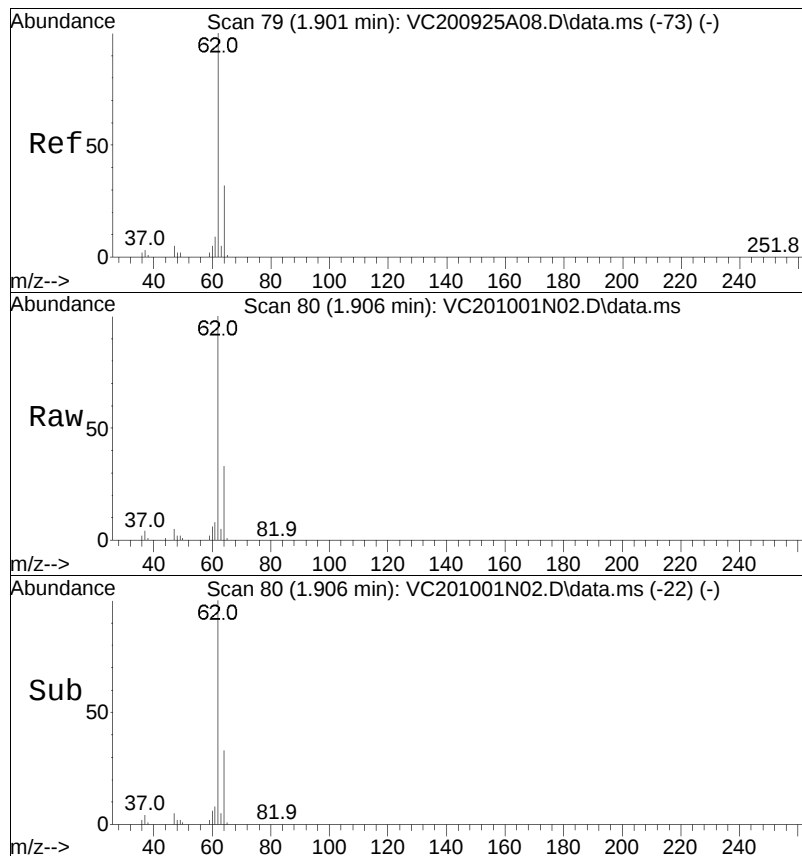




#3
 Chloromethane
 Concen: 35.23 ug/L
 RT: 1.843 min Scan# 68
 Delta R.T. 0.015 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

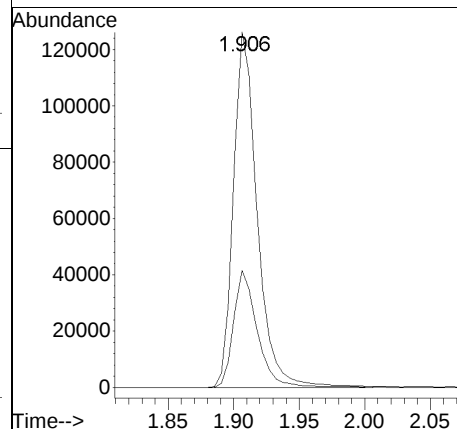
Tgt	Ion: 50	Resp:	60208
Ion	Ratio	Lower	Upper
50	100		
52	33.5	13.6	53.6
47	7.8	0.0	28.0

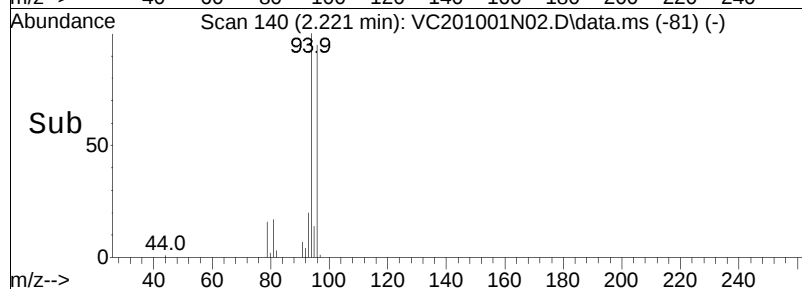
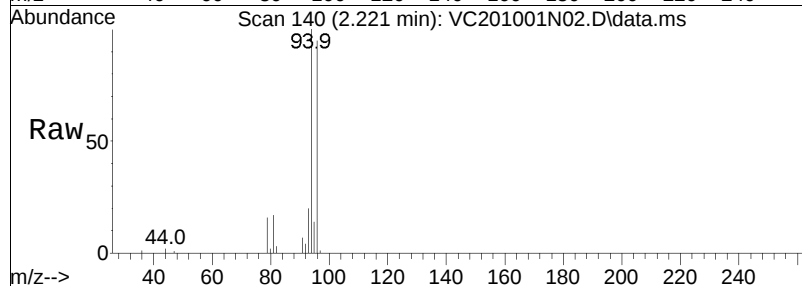
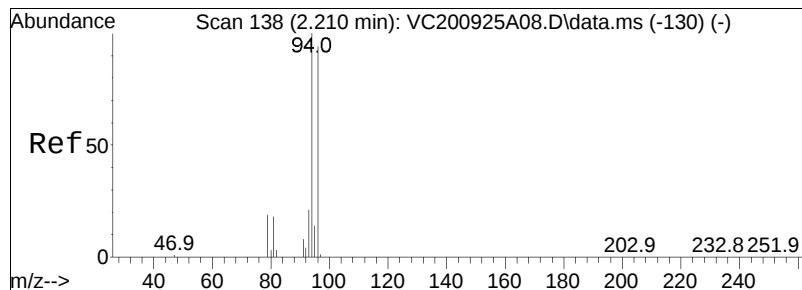




#4
 Vinyl chloride
 Concen: 40.62 ug/L
 RT: 1.906 min Scan# 80
 Delta R.T. 0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

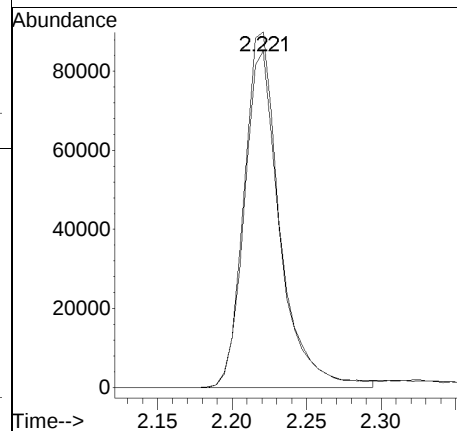
Tgt Ion	Ratio	Lower	Upper
62	100		
64	32.8	11.7	51.7

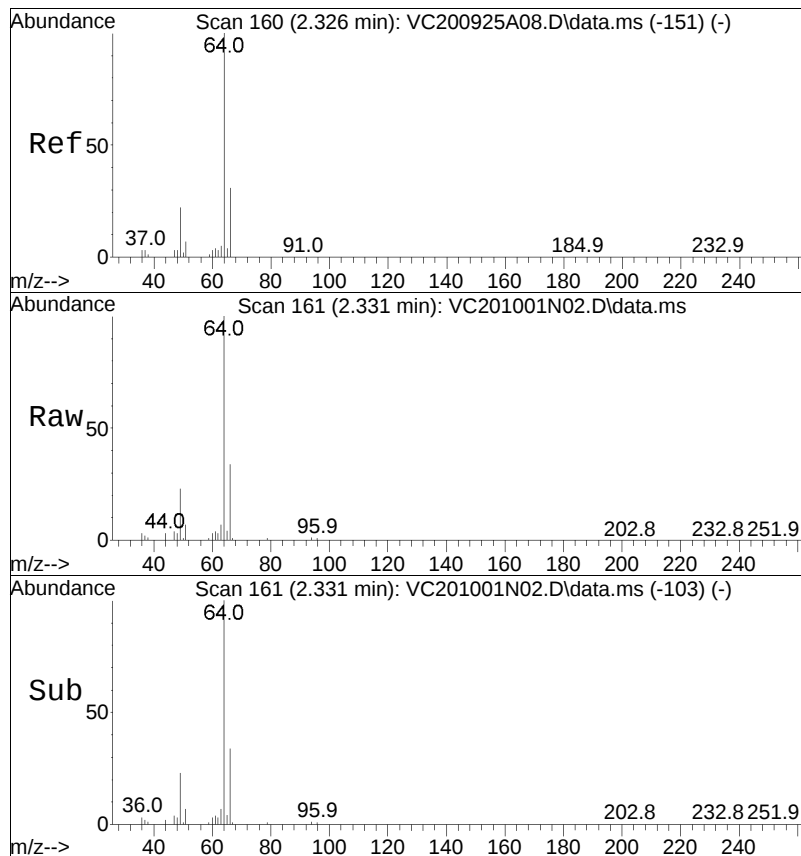




#5
 Bromomethane
 Concen: 46.67 ug/L
 RT: 2.221 min Scan# 140
 Delta R.T. 0.011 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

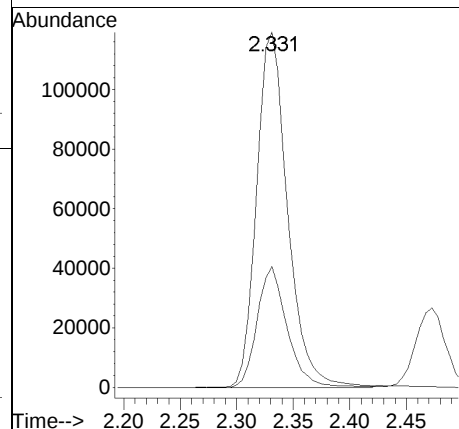
Tgt Ion	Ratio	Lower	Upper
94	100		
96	93.4	73.8	113.8

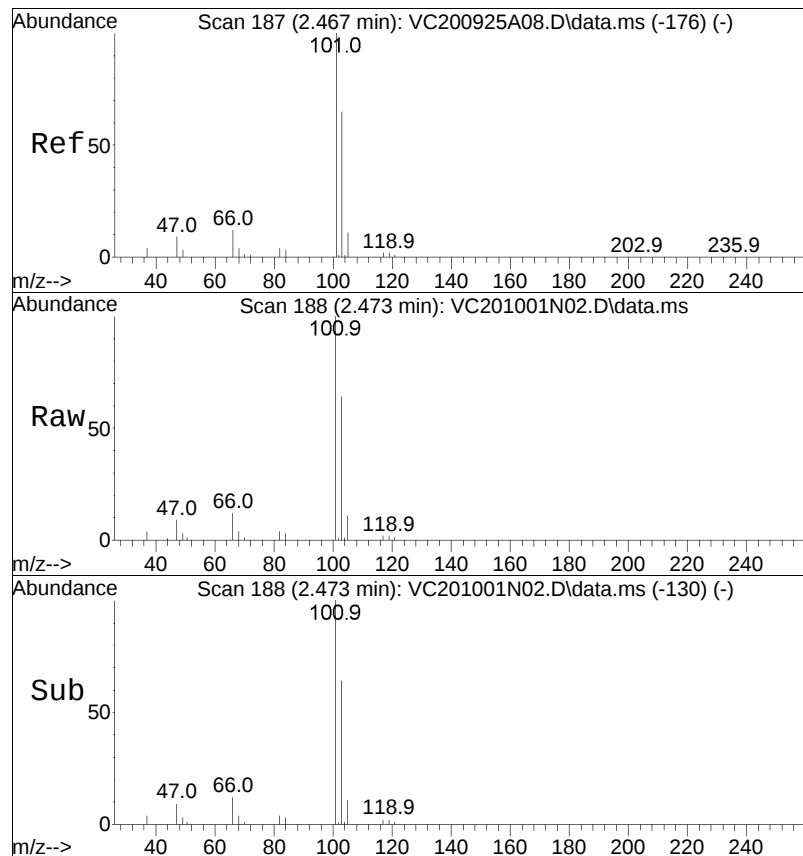




#6
 Chloroethane
 Concen: 55.32 ug/L
 RT: 2.331 min Scan# 161
 Delta R.T. 0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

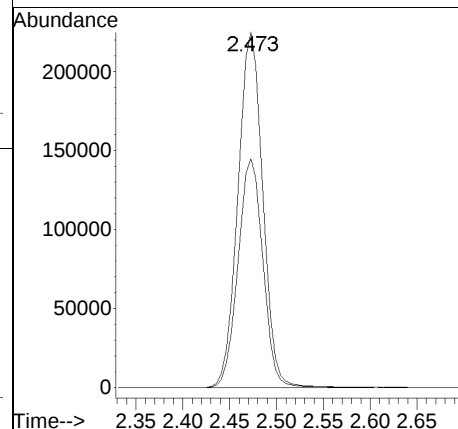
Tgt Ion	Ratio	Lower	Upper
64	100		
66	32.7	12.5	52.5

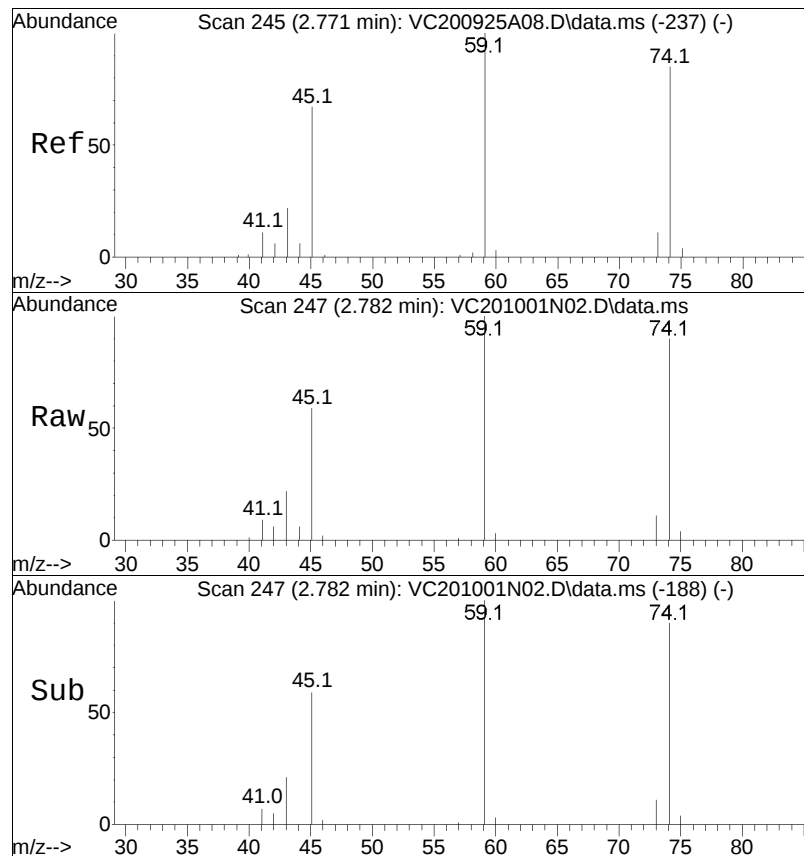




#7
 Trichlorofluoromethane
 Concen: 42.89 ug/L
 RT: 2.473 min Scan# 188
 Delta R.T. 0.006 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

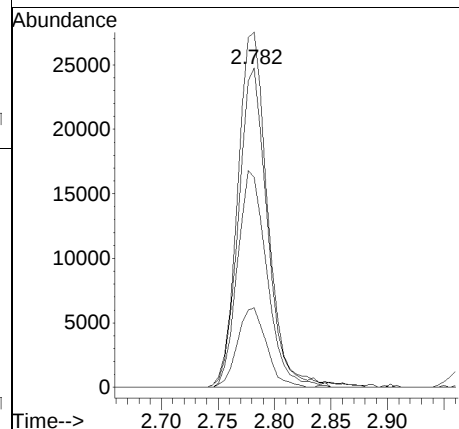
Tgt	Ion	Ratio	Lower	Upper
101	100			
103	64.6	51.7	77.5	

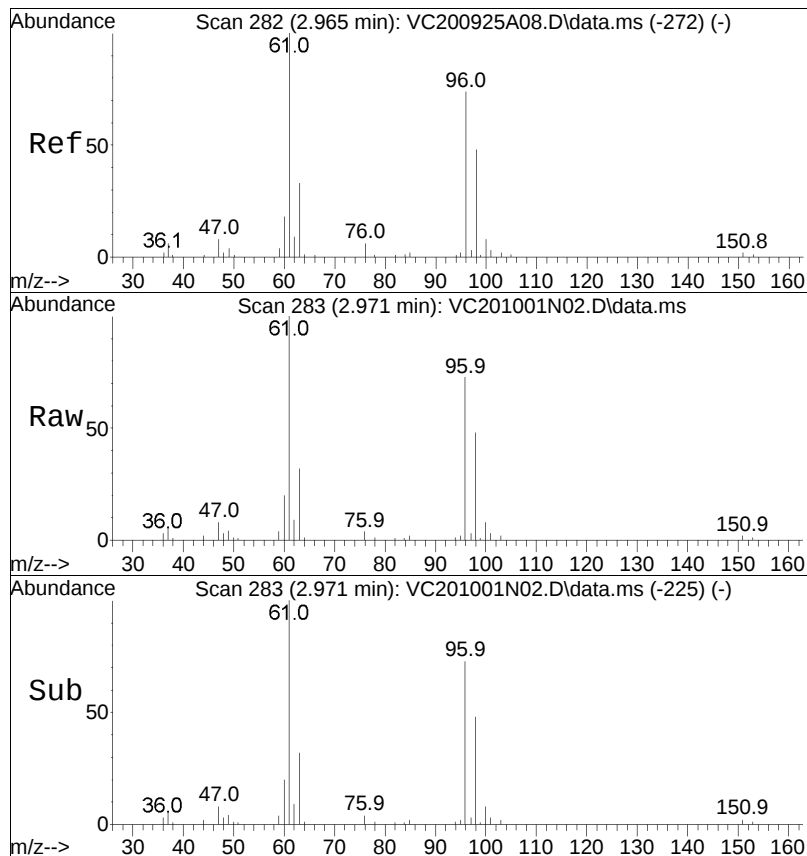




#8
 Ethyl ether
 Concen: 37.96 ug/L
 RT: 2.782 min Scan# 247
 Delta R.T. 0.011 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

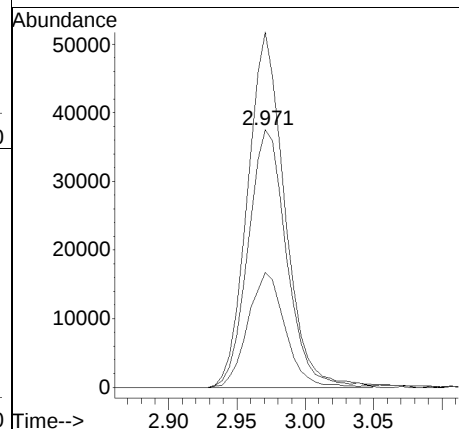
Tgt Ion:	74	Resp:	44677
Ion	Ratio	Lower	Upper
74	100		
59	114.5	83.4	173.2
45	69.3	60.1	124.7
43	24.8	18.2	37.8

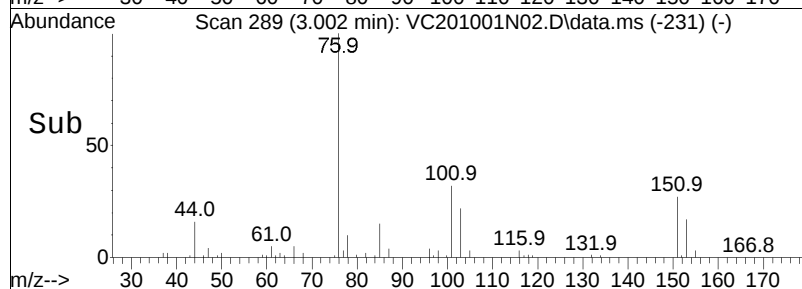
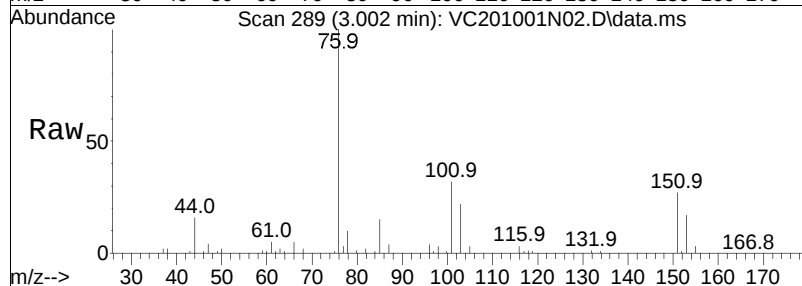
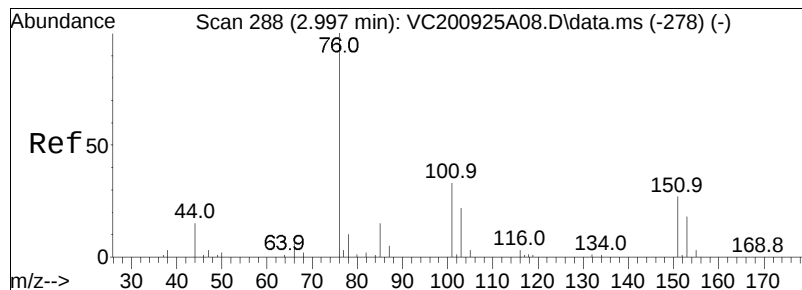




#10
 1,1-Dichloroethene
 Concen: 37.85 ug/L
 RT: 2.971 min Scan# 283
 Delta R.T. 0.006 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

Tgt Ion:	96	Resp:	73730
Ion Ratio	Lower	Upper	
96	100		
61	134.0	116.1	174.1
63	43.3	37.4	56.0





#11

Carbon disulfide

Concen: 33.08 ug/L

RT: 3.002 min Scan# 289

Delta R.T. 0.005 min

Lab File: VC201001N02.D

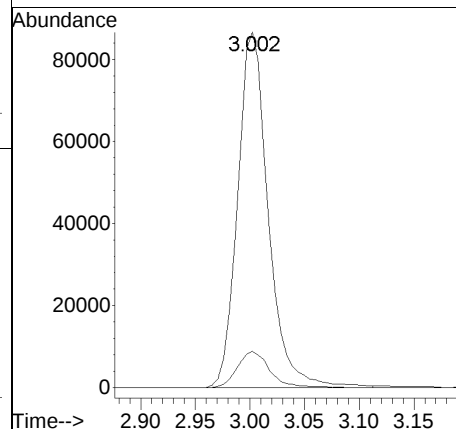
Acq: 1 Oct 2020 6:05 pm

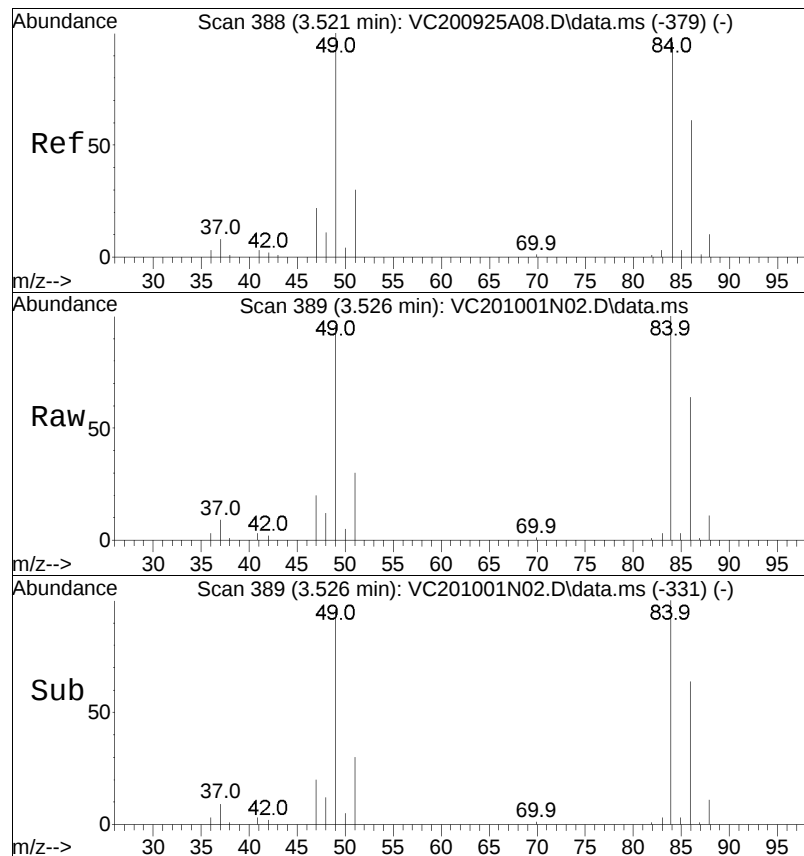
Tgt Ion: 76 Resp: 168648

Ion Ratio Lower Upper

76 100

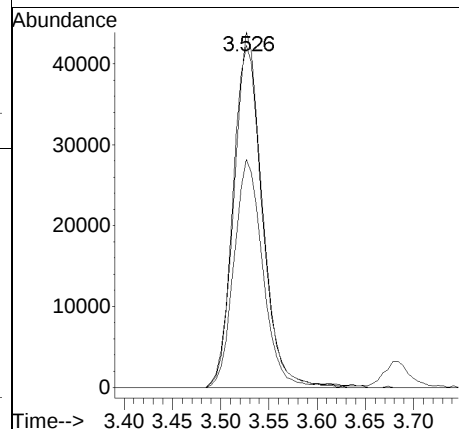
78 10.6 6.5 13.5

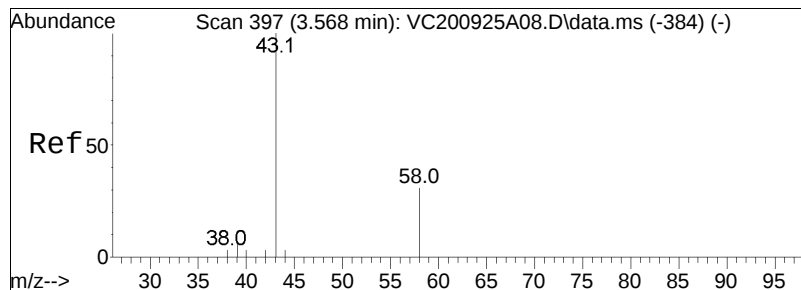




#15
 Methylene chloride
 Concen: 34.89 ug/L
 RT: 3.526 min Scan# 389
 Delta R.T. 0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

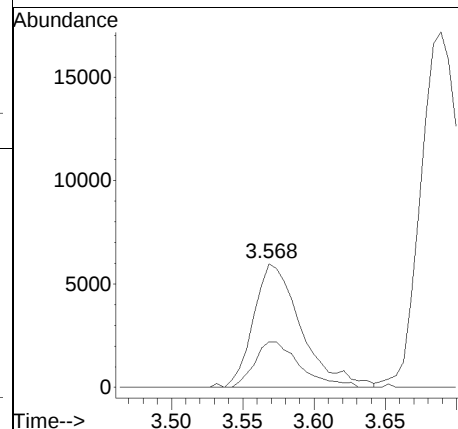
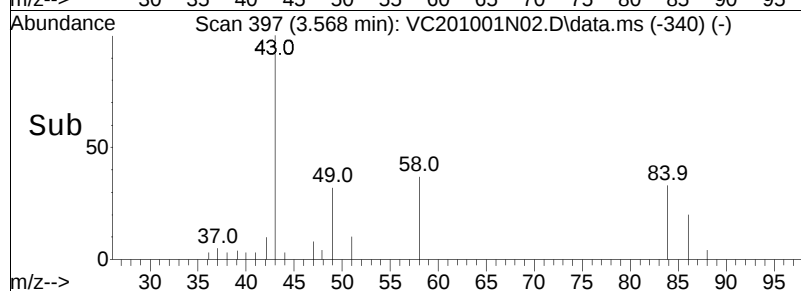
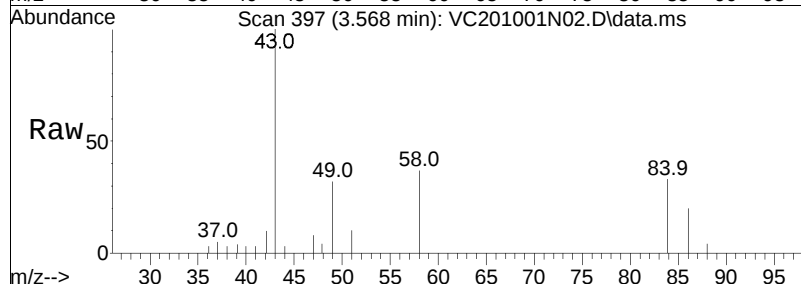
Tgt Ion:	84	Resp:	89698
Ion Ratio	Lower	Upper	
84	100		
86	65.6	41.9	86.9
49	99.4	70.3	146.1

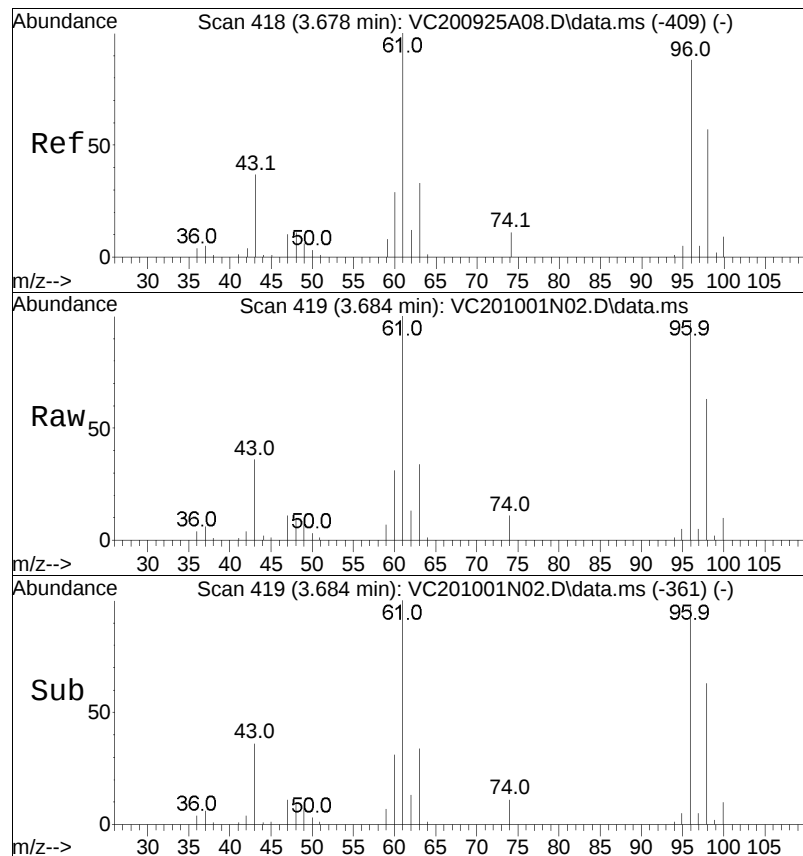




#17
 Acetone
 Concen: 31.05 ug/L
 RT: 3.568 min Scan# 397
 Delta R.T. 0.000 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

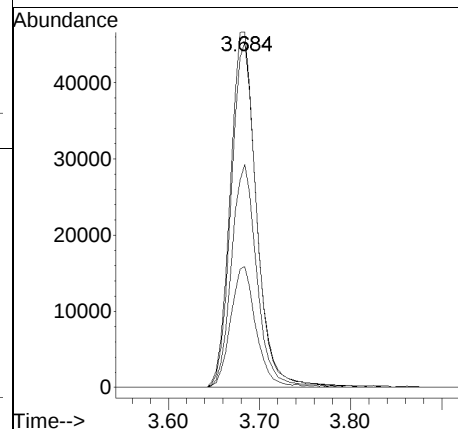
Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.3	25.4	38.2

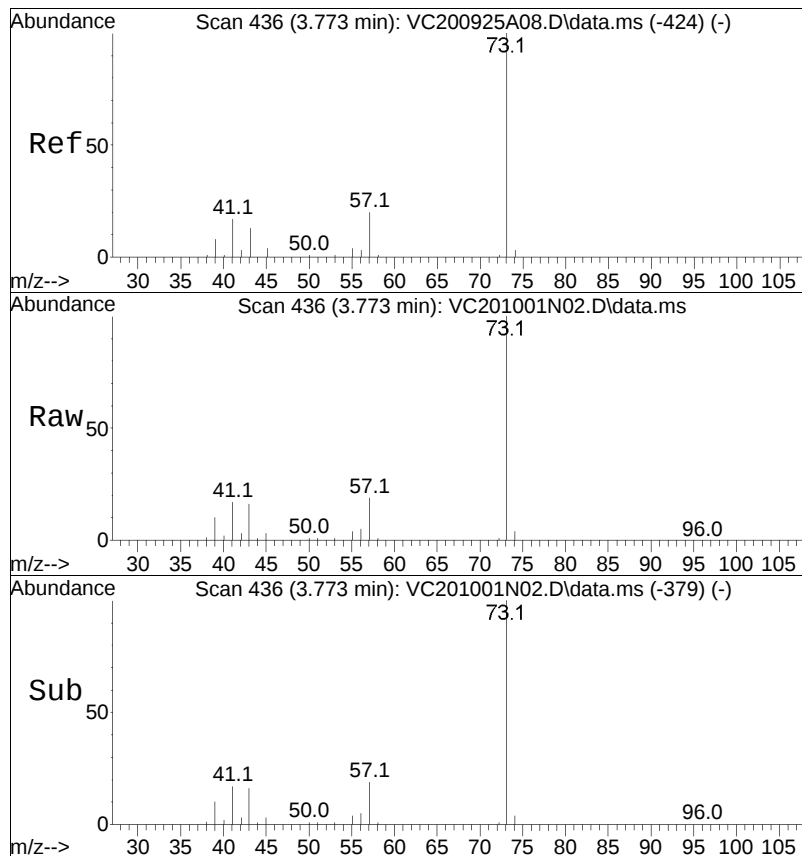




#18
 trans-1,2-Dichloroethene
 Concen: 39.01 ug/L
 RT: 3.684 min Scan# 419
 Delta R.T. 0.006 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

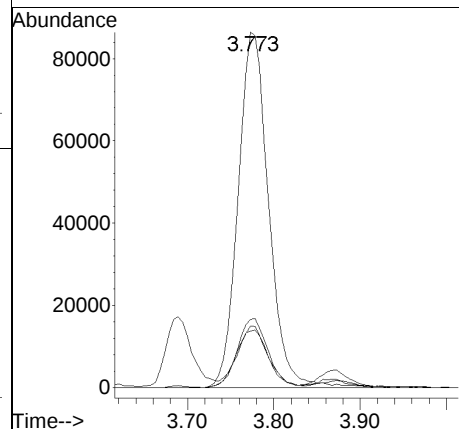
Tgt Ion: 96	Resp: 89189
Ion Ratio	Lower Upper
96 100	
61 103.9	81.6 169.4
98 64.0	41.5 86.1
63 34.8	26.1 54.1

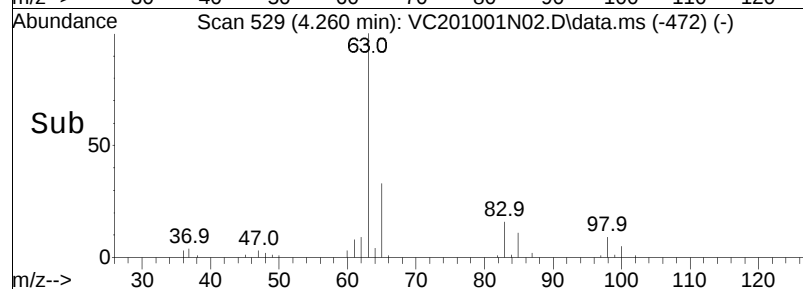
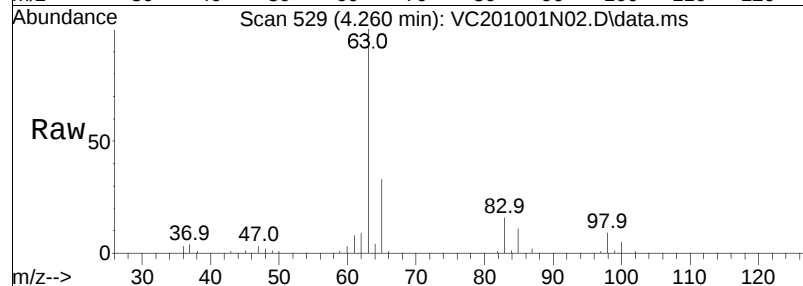
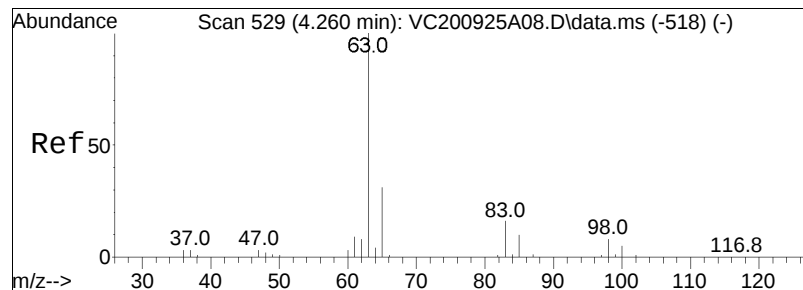




#20
Methyl tert-butyl ether
Concen: 33.71 ug/L
RT: 3.773 min Scan# 436
Delta R.T. -0.000 min
Lab File: VC201001N02.D
Acq: 1 Oct 2020 6:05 pm

Tgt Ion:	73	Resp:	212823
Ion Ratio	Lower	Upper	
73	100		
57	19.6	13.3	27.7
43	16.9	13.0	27.0
41	17.1	13.5	28.1





#23

1,1-Dichloroethane

Concen: 36.20 ug/L

RT: 4.260 min Scan# 529

Delta R.T. 0.000 min

Lab File: VC201001N02.D

Acq: 1 Oct 2020 6:05 pm

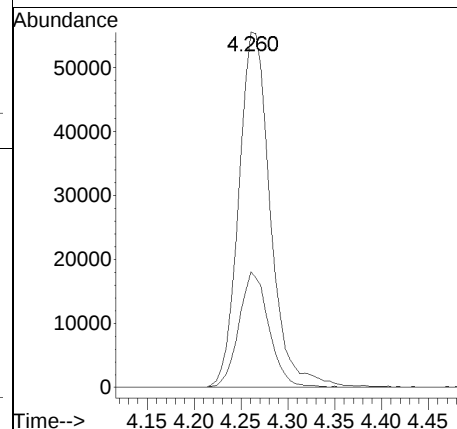
Tgt Ion: 63 Resp: 130692

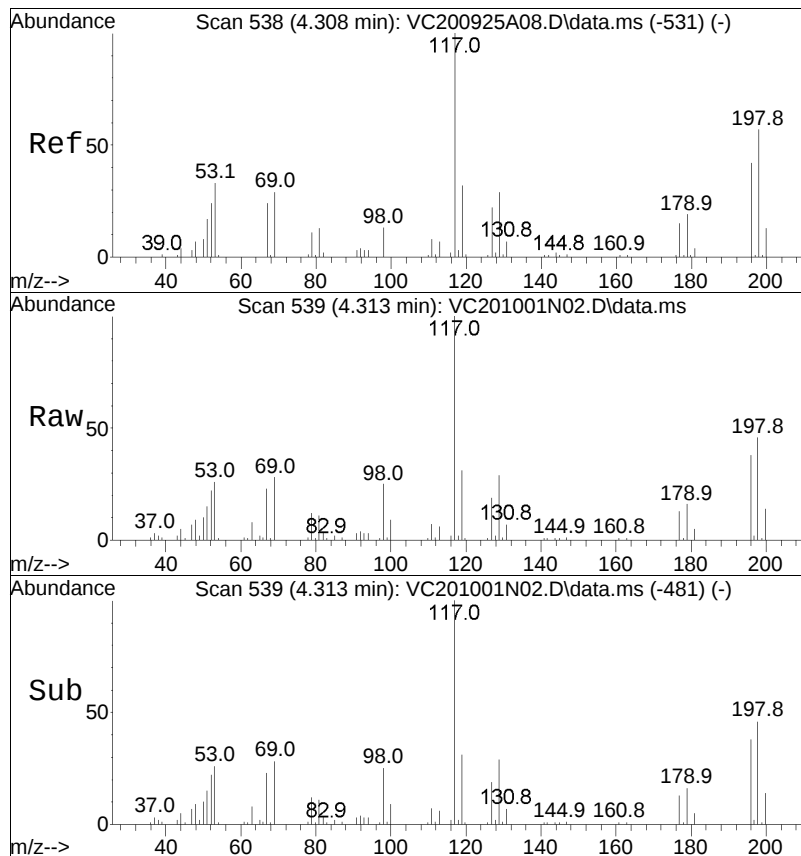
Ion Ratio Lower Upper

63 100

65 30.9 11.2 51.2

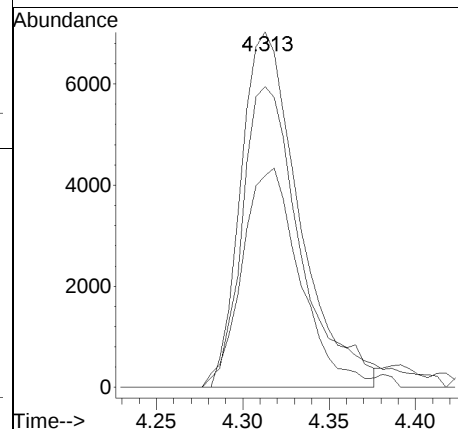
65 30.9 11.2 51.2

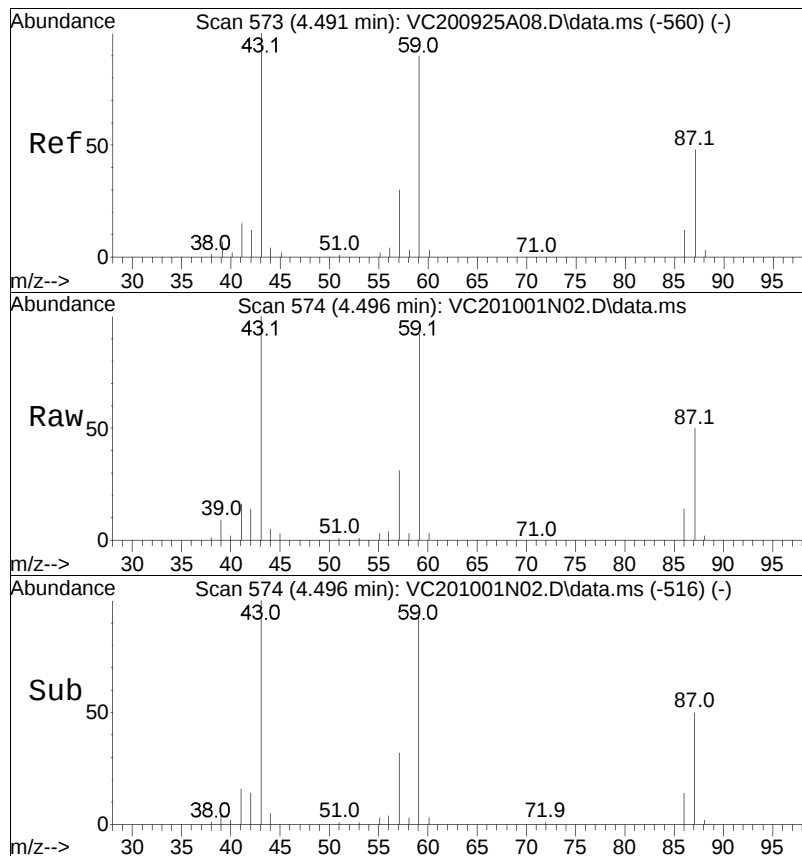




#25
 Acrylonitrile
 Concen: 33.39 ug/L
 RT: 4.313 min Scan# 539
 Delta R.T. 0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

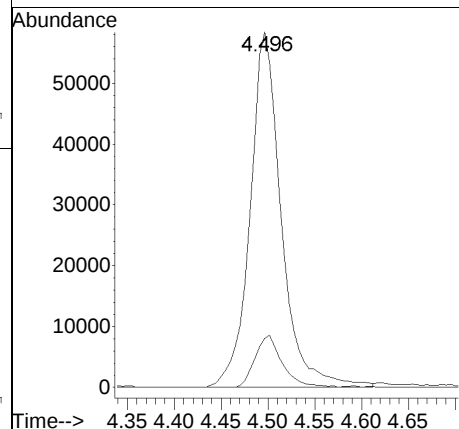
Tgt Ion:	53	Resp:	16593
Ion Ratio	Lower	Upper	
53	100		
52	88.2	67.8	101.6
51	62.2	42.2	63.4

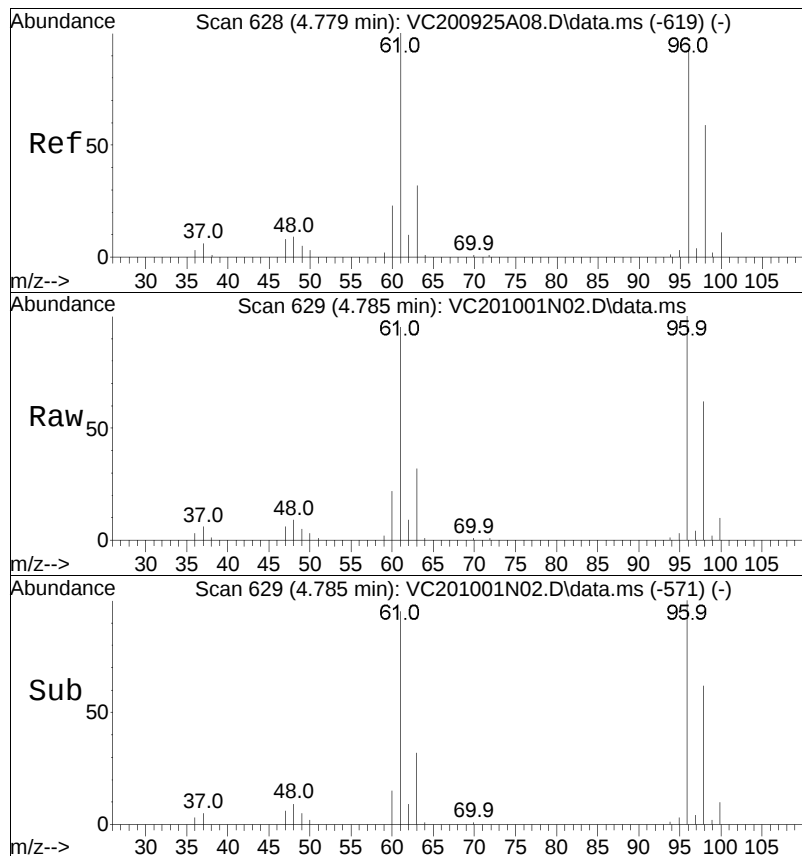




#27
 Vinyl acetate
 Concen: 29.88 ug/L
 RT: 4.496 min Scan# 574
 Delta R.T. 0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

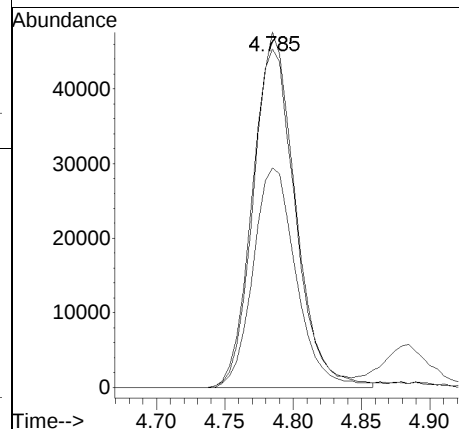
Tgt Ion	Ratio	Lower	Upper
43	100		
86	12.8	8.1	12.1#

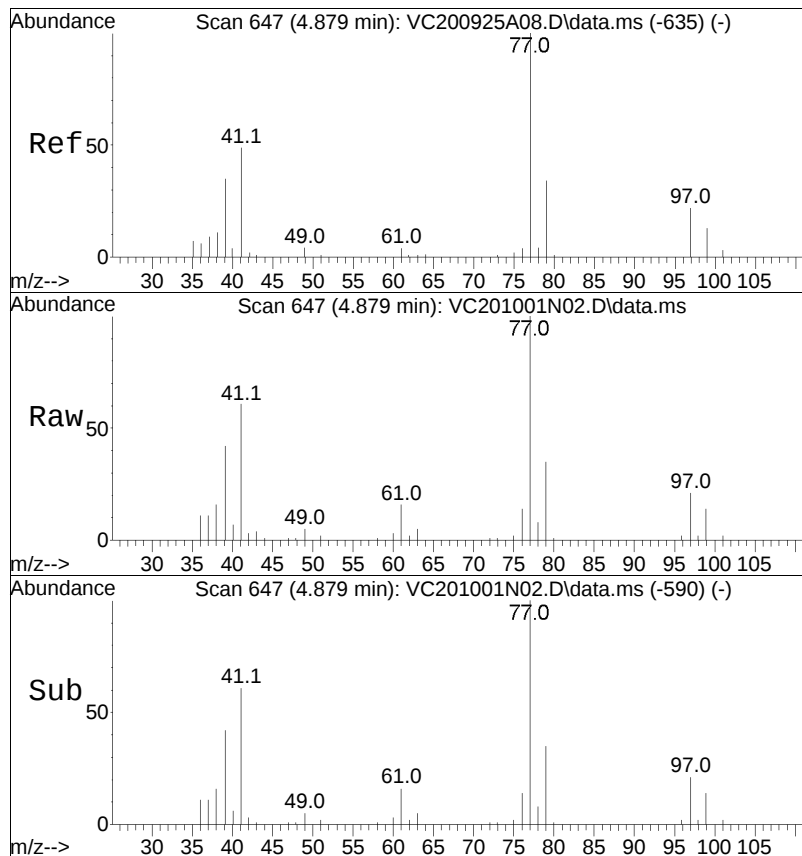




#28
 cis-1,2-Dichloroethene
 Concen: 37.92 ug/L
 RT: 4.785 min Scan# 629
 Delta R.T. 0.006 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

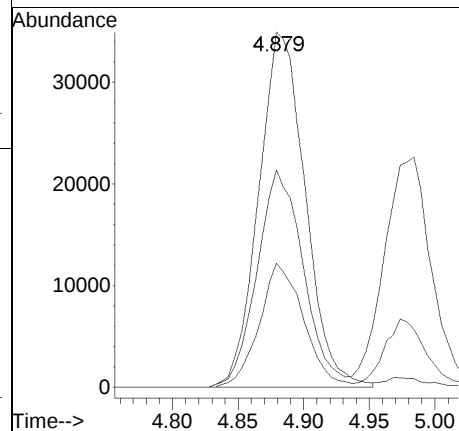
Tgt Ion: 96	Resp: 100921
Ion Ratio Lower Upper	
96 100	
61 98.9	89.6 134.4
98 64.0	51.5 77.3

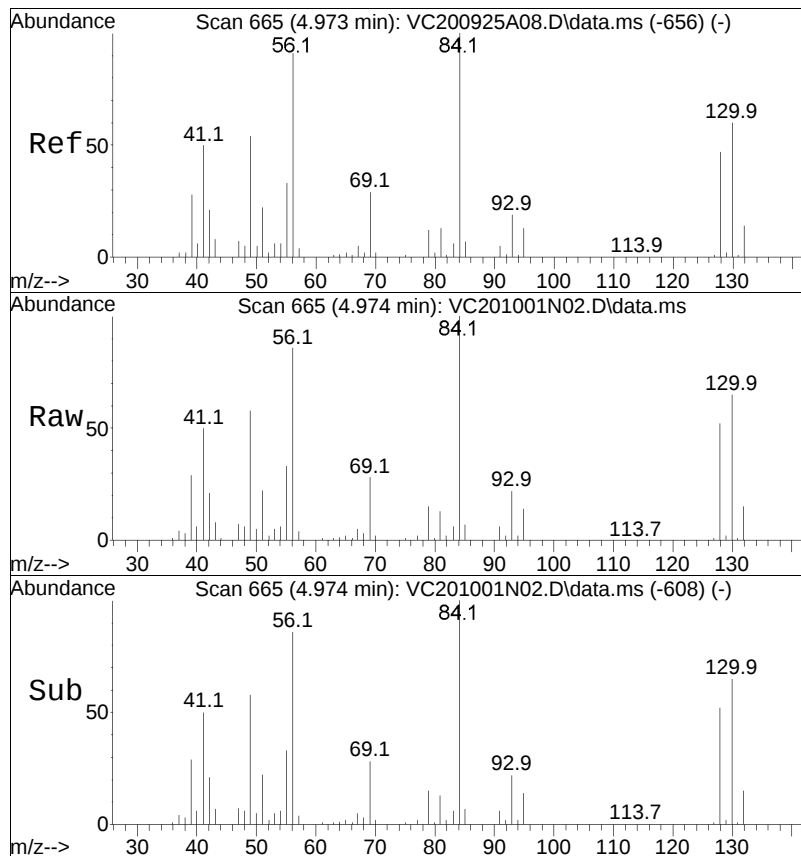




#29
 2,2-Dichloropropane
 Concen: 27.27 ug/L
 RT: 4.879 min Scan# 647
 Delta R.T. 0.000 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

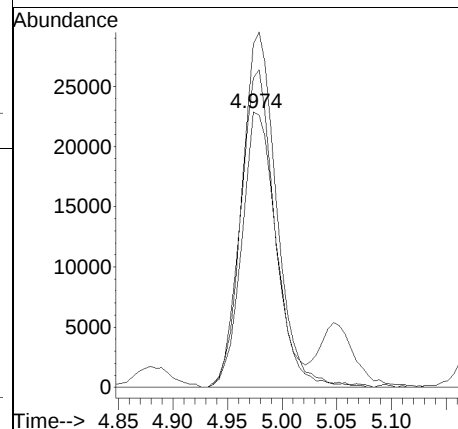
Tgt Ion:	77	Resp:	86315
Ion Ratio	Lower	Upper	
77	100		
41	60.7	34.6	72.0
79	33.2	20.9	43.3

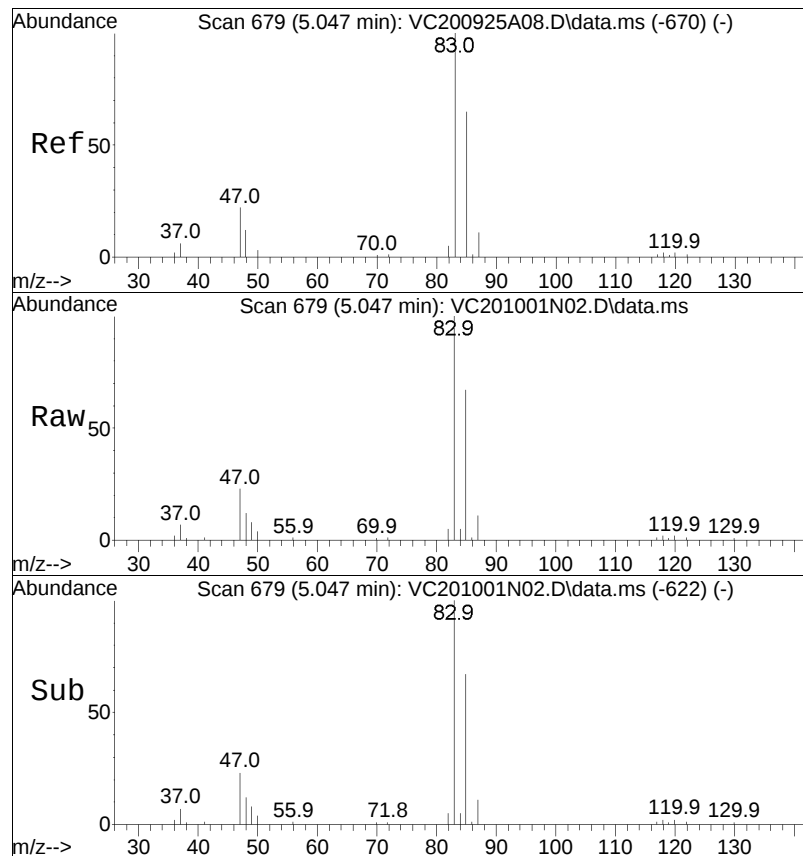




#30
 Bromochloromethane
 Concen: 36.12 ug/L
 RT: 4.974 min Scan# 665
 Delta R.T. 0.001 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

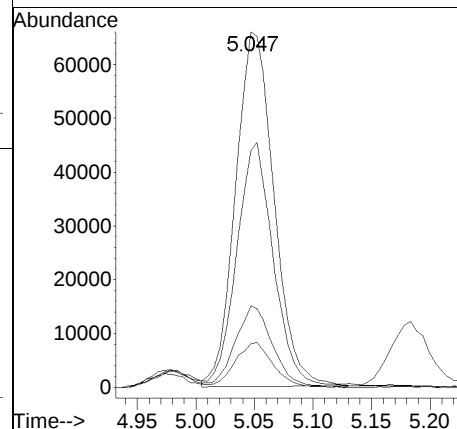
Tgt Ion	Ratio	Lower	Upper
128	100		
49	112.2	100.6	150.8
130	128.0	104.4	156.6

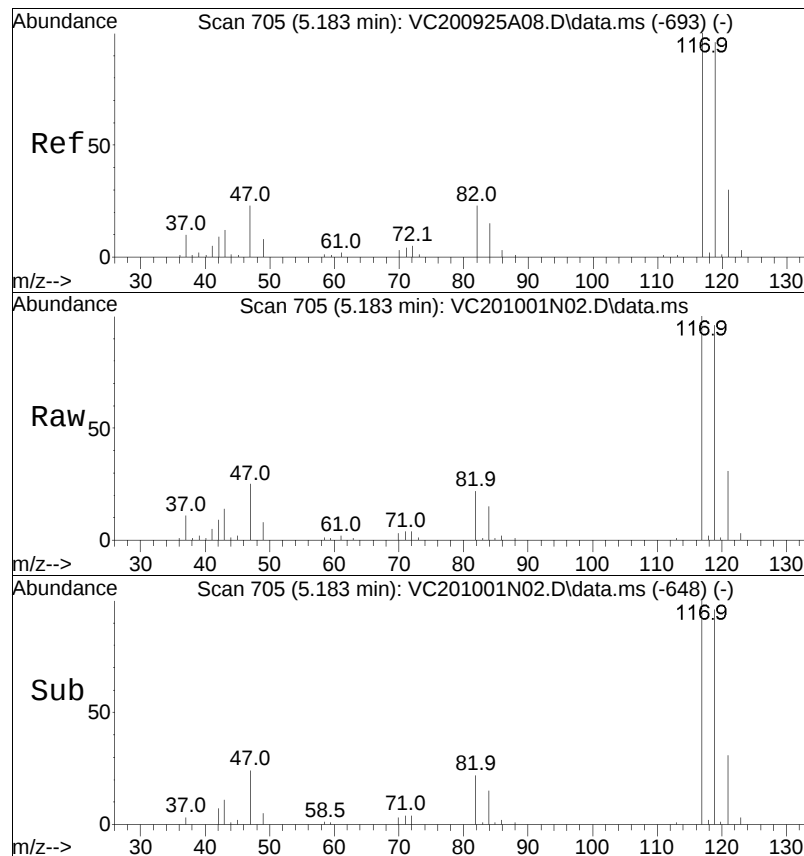




#32
 Chloroform
 Concen: 35.63 ug/L
 RT: 5.047 min Scan# 679
 Delta R.T. -0.000 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

Tgt	Ion: 83	Resp:	150728
Ion	Ratio	Lower	Upper
83	100		
85	65.7	42.8	89.0
47	22.5	15.0	31.2
48	12.5	7.5	15.5





#34

Carbon tetrachloride

Concen: 34.88 ug/L

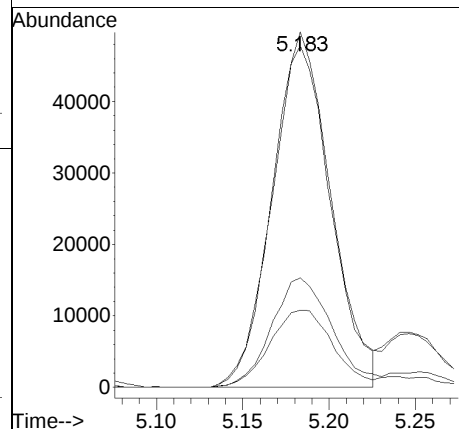
RT: 5.183 min Scan# 705

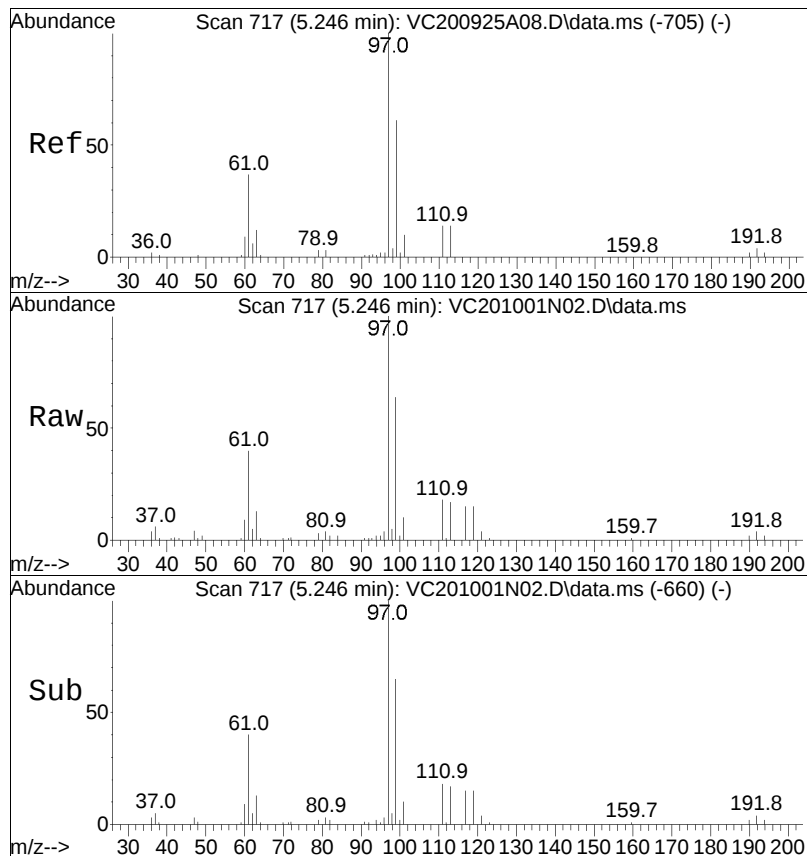
Delta R.T. 0.000 min

Lab File: VC201001N02.D

Acq: 1 Oct 2020 6:05 pm

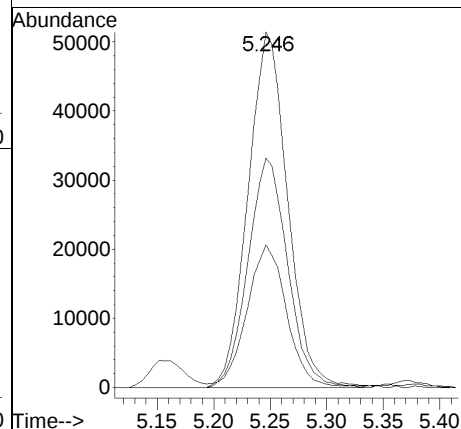
Tgt Ion:	117	Resp:	117815
Ion Ratio	Lower	Upper	
117	100		
119	98.1	62.5	129.9
121	32.0	20.2	41.9
82	23.5	15.5	32.1

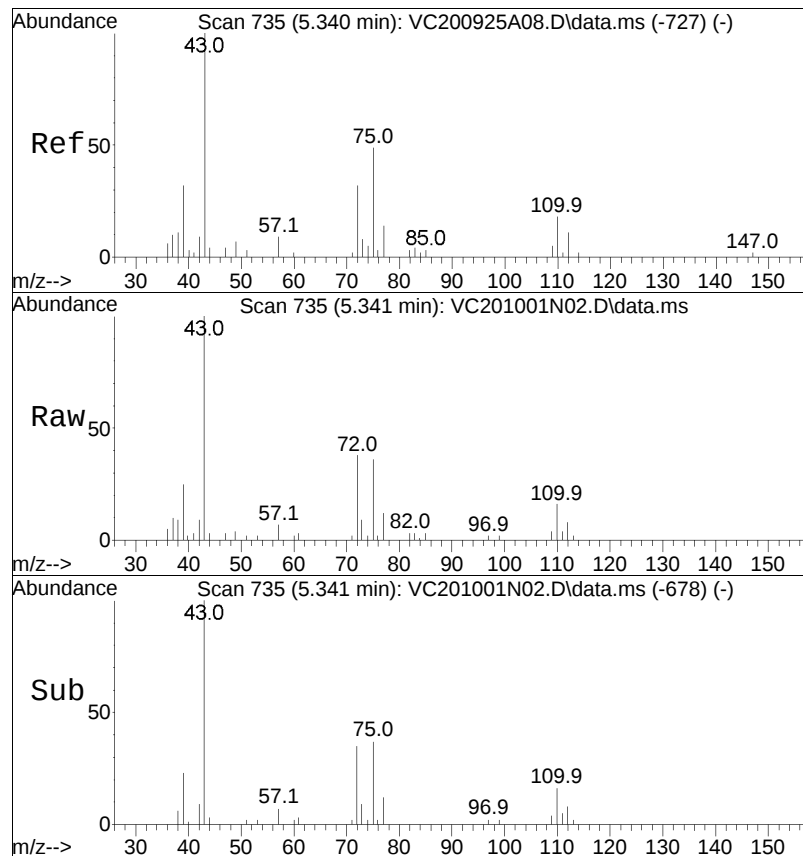




#37
 1,1,1-Trichloroethane
 Concen: 34.97 ug/L
 RT: 5.246 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

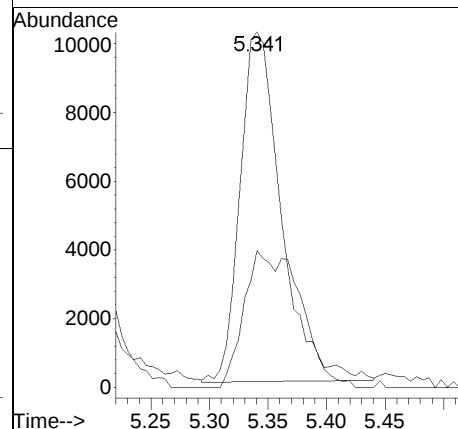
Tgt Ion:	97	Resp:	125292
Ion Ratio	Lower	Upper	
97	100		
99	64.8	41.2	85.6
61	40.1	27.8	57.8
61	40.1	27.8	57.8

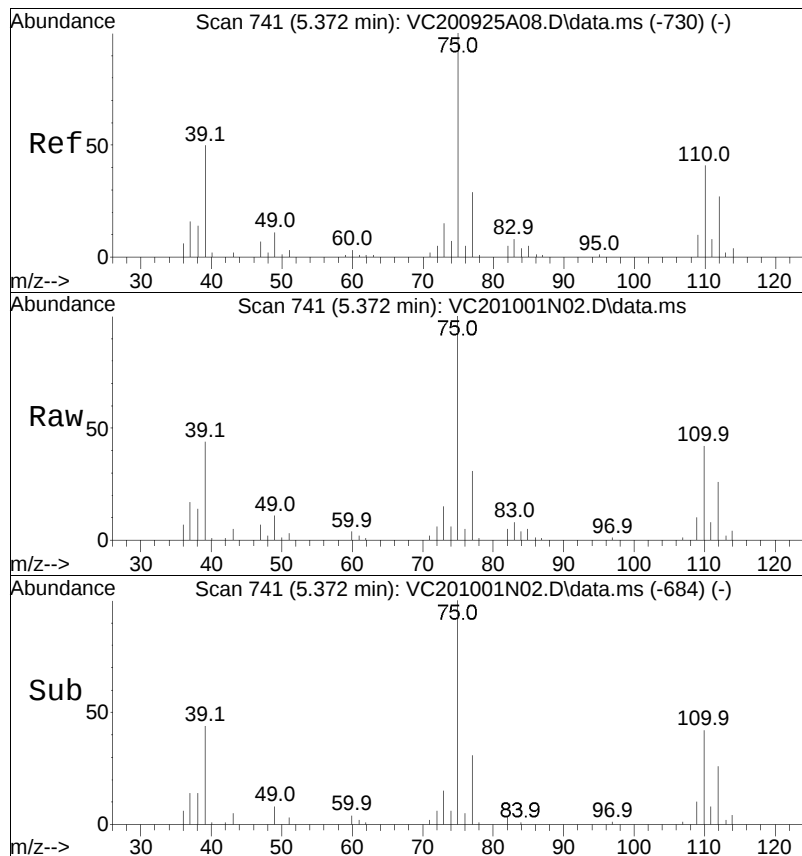




#39
 2-Butanone
 Concen: 31.83 ug/L
 RT: 5.341 min Scan# 735
 Delta R.T. 0.001 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

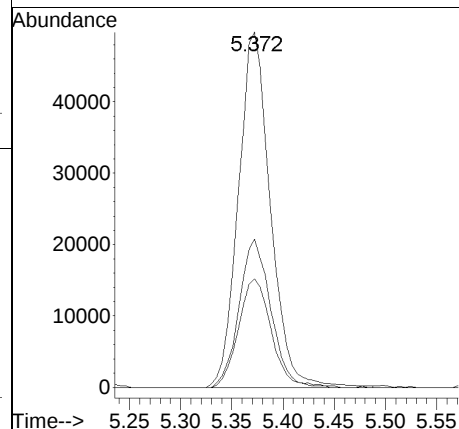
Tgt Ion: 43 Resp: 24941
 Ion Ratio Lower Upper
 43 100
 72 29.2 33.3 49.9#

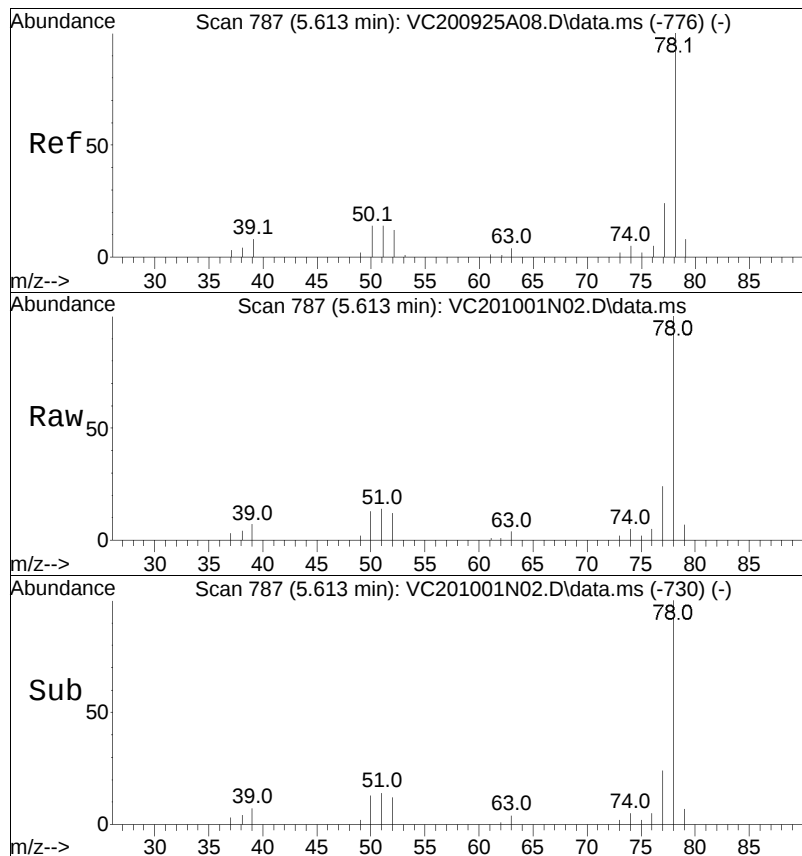




#40
 1,1-Dichloropropene
 Concen: 36.70 ug/L
 RT: 5.372 min Scan# 741
 Delta R.T. -0.000 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

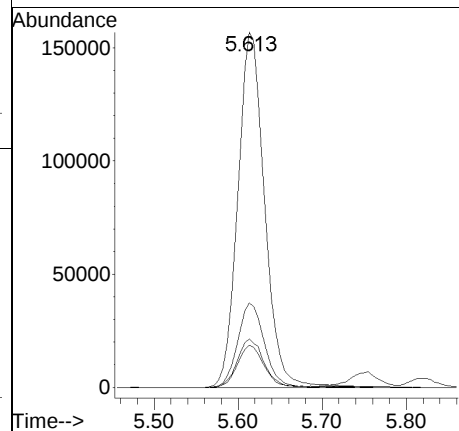
Tgt	Ion: 75	Resp:	108196
Ion	Ratio	Lower	Upper
75	100		
110	41.4	24.9	51.7
77	31.0	19.8	41.0

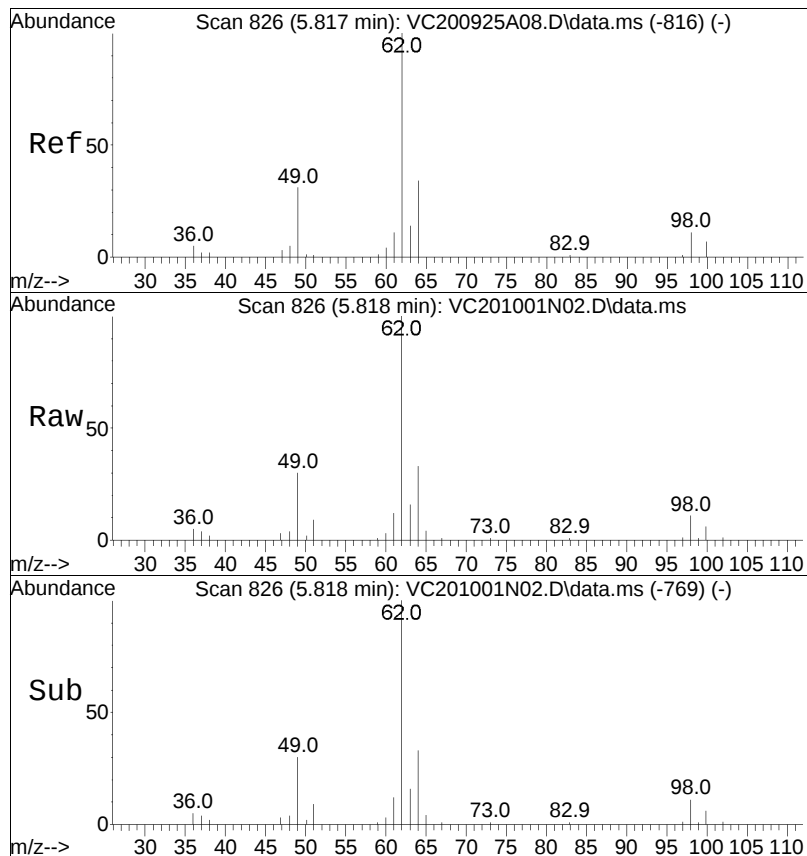




#41
Benzene
Concen: 34.32 ug/L
RT: 5.613 min Scan# 787
Delta R.T. 0.000 min
Lab File: VC201001N02.D
Acq: 1 Oct 2020 6:05 pm

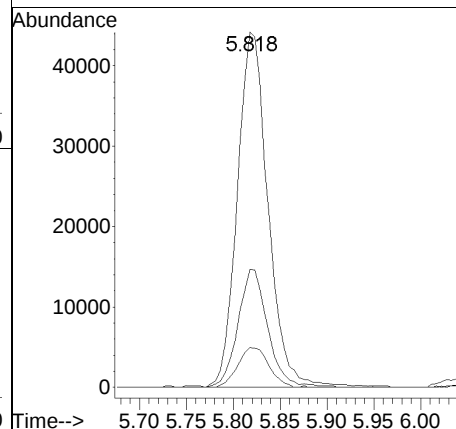
Tgt Ion: 78	Resp: 347430
Ion Ratio	Lower Upper
78 100	
77 23.8	15.3 31.9
51 13.6	9.8 20.4
52 11.8	9.0 18.8

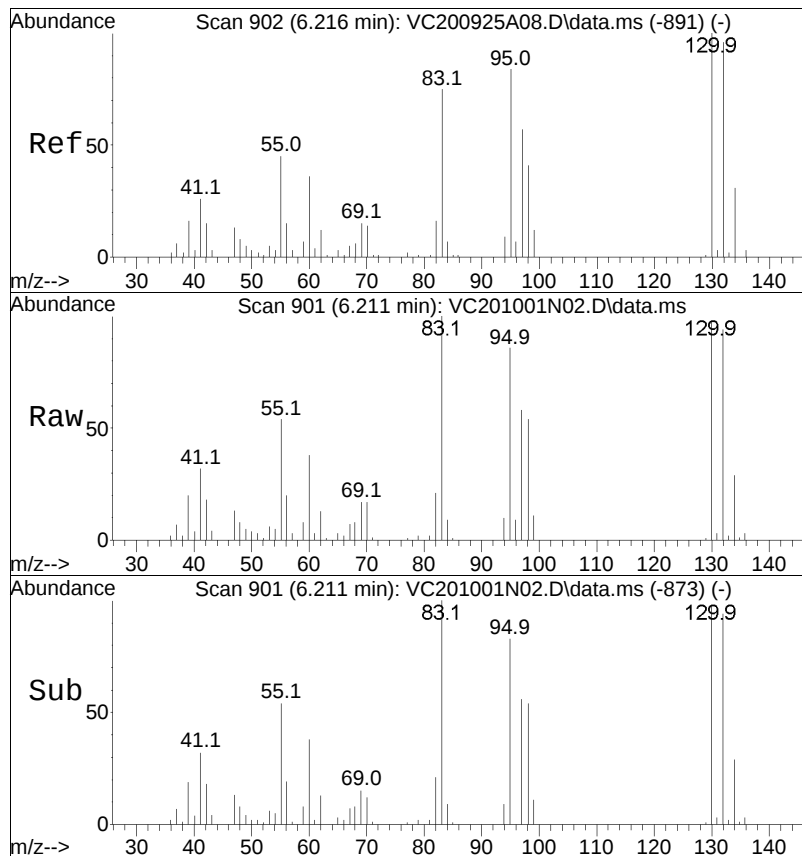




#44
 1,2-Dichloroethane
 Concen: 35.46 ug/L
 RT: 5.818 min Scan# 826
 Delta R.T. 0.001 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

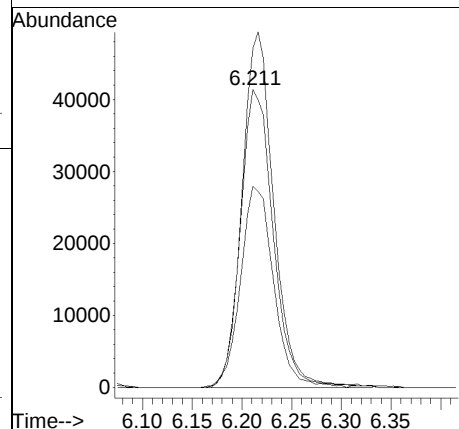
Tgt Ion	Ratio	Lower	Upper
62	100		
64	32.3	12.1	52.1
98	11.4	0.0	29.9

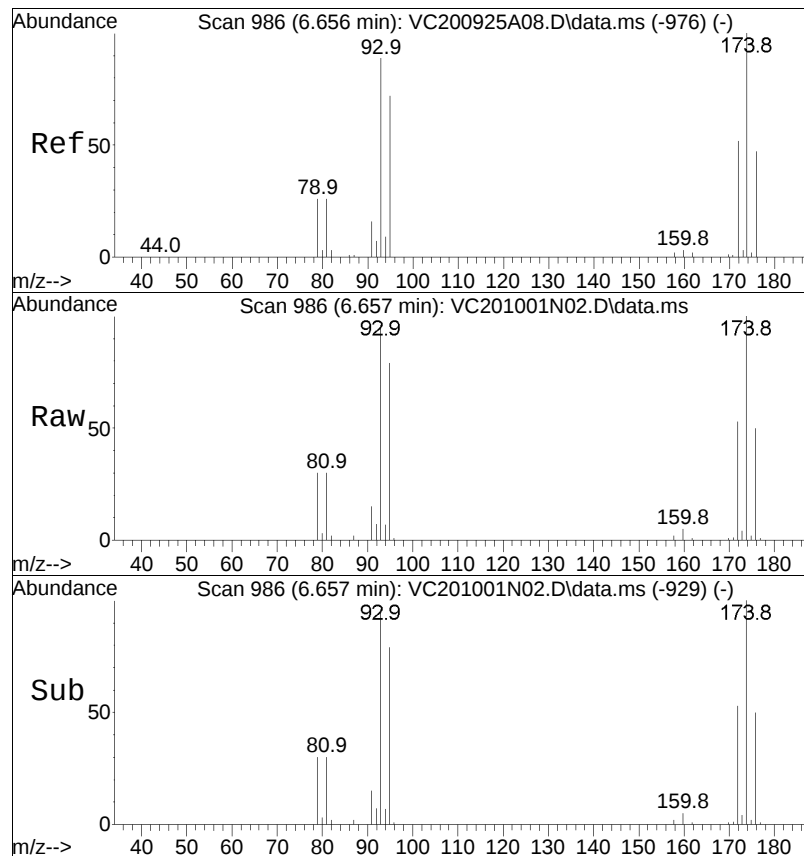




#48
 Trichloroethene
 Concen: 36.59 ug/L
 RT: 6.211 min Scan# 901
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

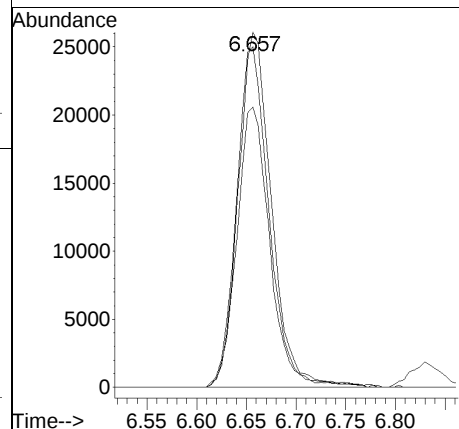
Tgt Ion	Ratio	Lower	Upper
95	100		
97	68.3	54.6	82.0
130	115.4	89.0	133.6

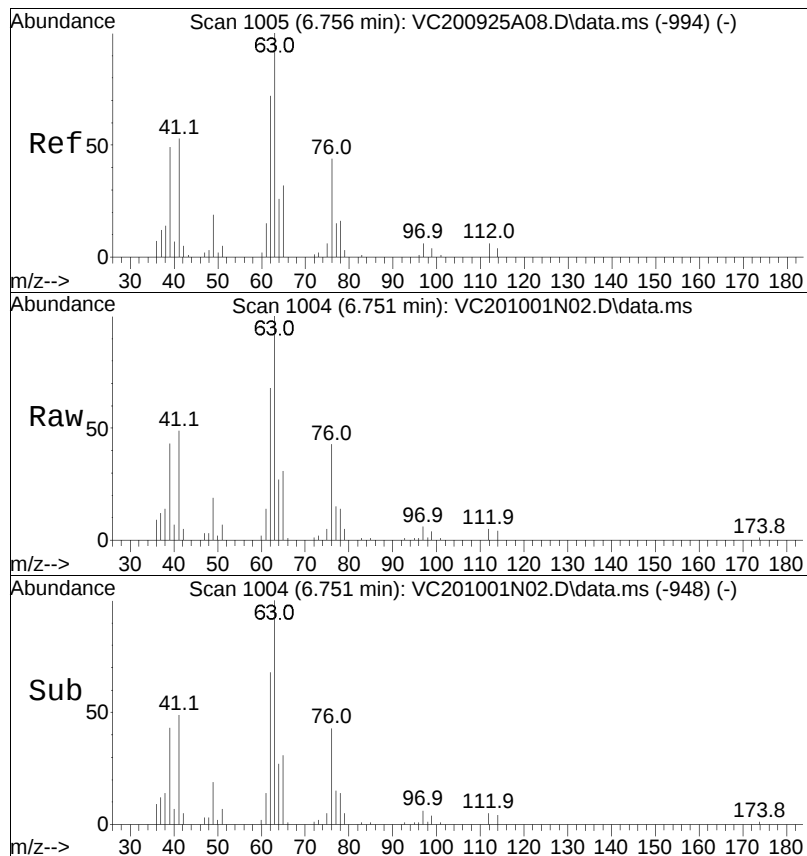




#50
 Dibromomethane
 Concen: 37.63 ug/L
 RT: 6.657 min Scan# 986
 Delta R.T. 0.001 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

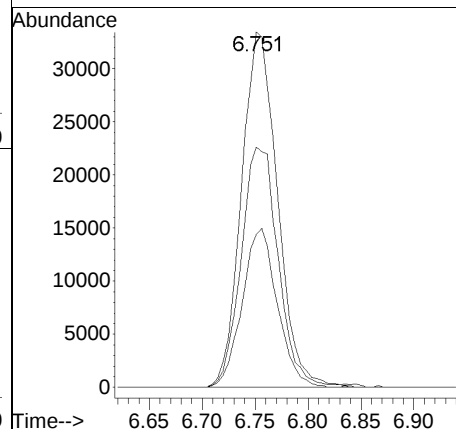
Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.4	66.7	100.1
174	105.7	87.0	130.4

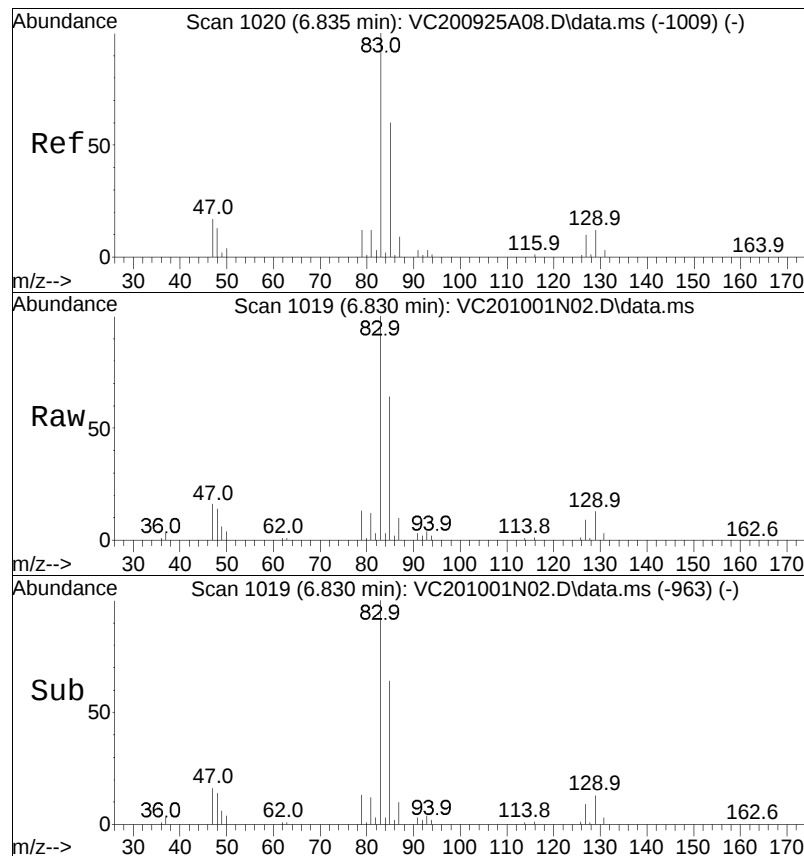




#51
 1,2-Dichloropropane
 Concen: 37.15 ug/L
 RT: 6.751 min Scan# 1004
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

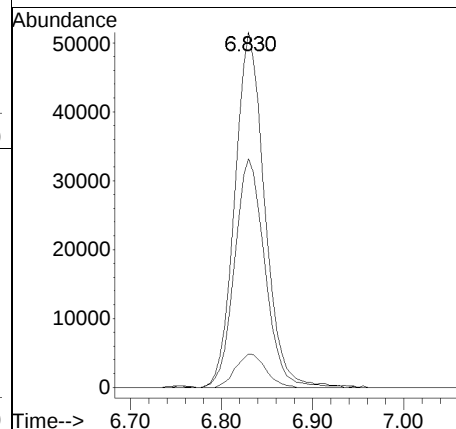
Tgt Ion:	63	Resp:	79540
Ion Ratio	Lower	Upper	
63	100		
62	69.5	57.8	86.6
76	43.5	37.1	55.7

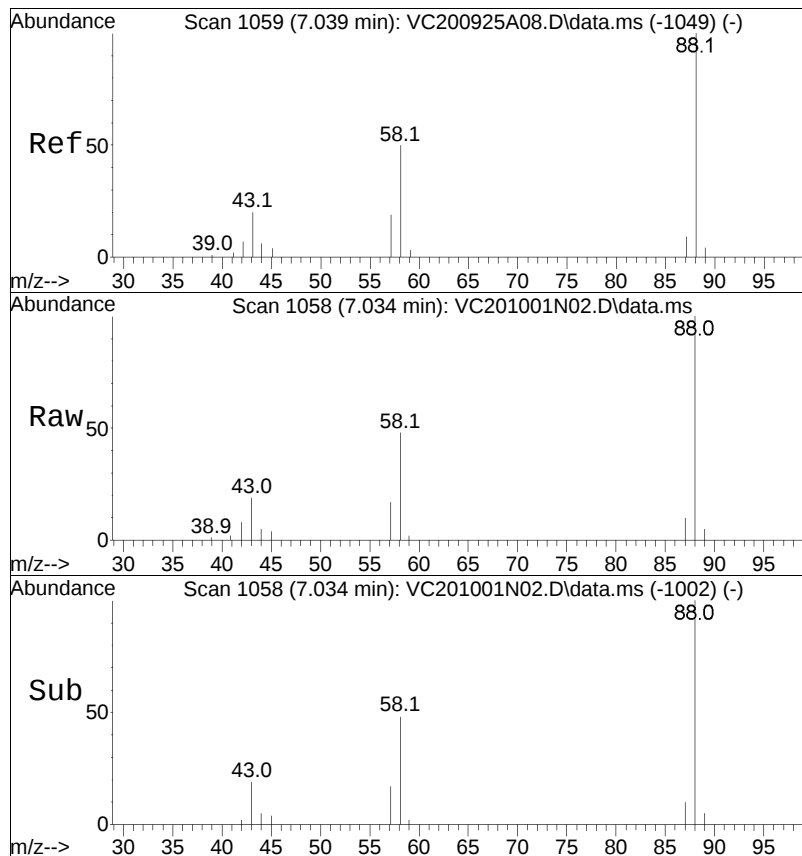




#54
 Bromodichloromethane
 Concen: 33.03 ug/L
 RT: 6.830 min Scan# 1019
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

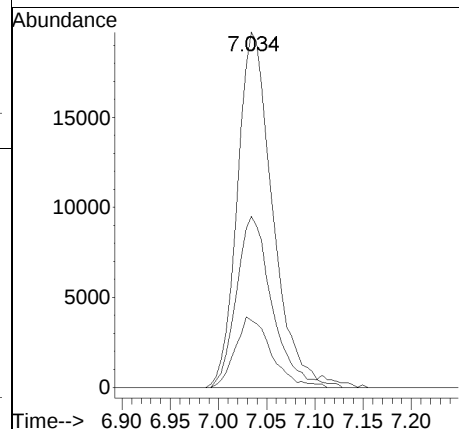
Tgt Ion:	83	Resp:	117547
Ion Ratio	Lower	Upper	
83	100		
85	65.4	51.5	77.3
127	9.5	7.6	11.4

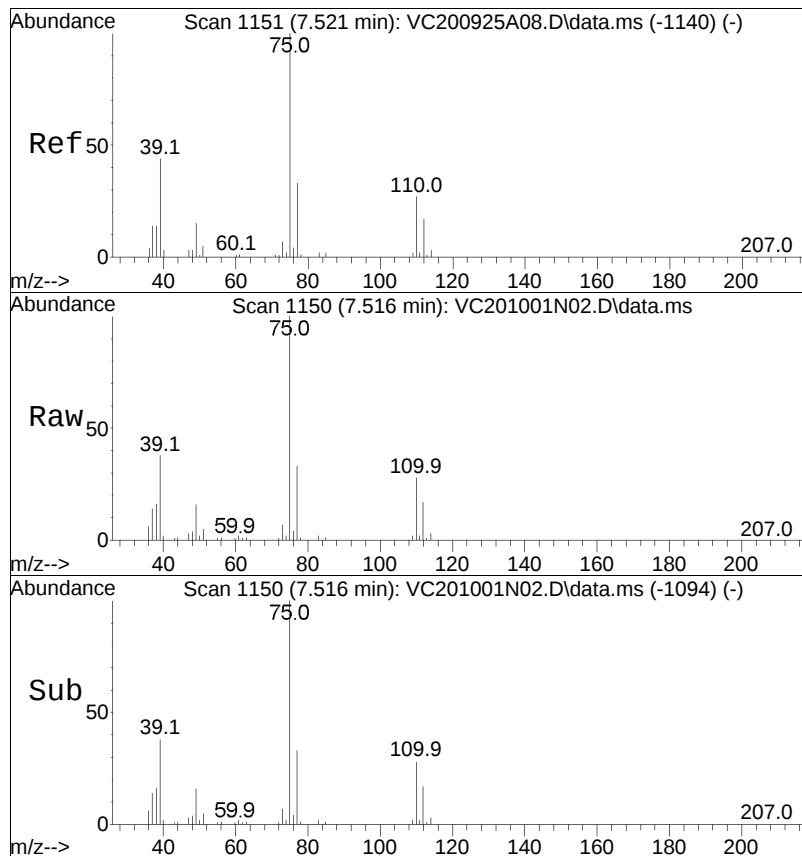




#57
 1,4-Dioxane
 Concen: 1917.02 ug/L
 RT: 7.034 min Scan# 1058
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

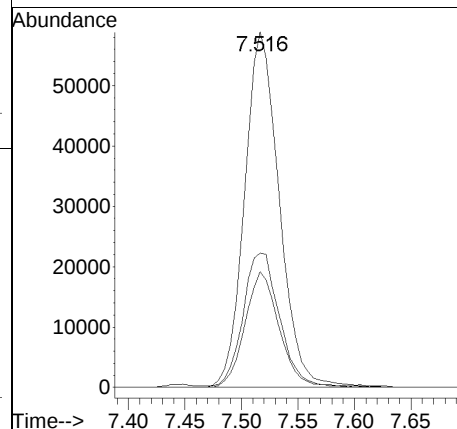
Tgt	Ion	Ratio	Lower	Upper
88	100			
58	48.6	45.8	68.6	
43	20.1	18.3	27.5	

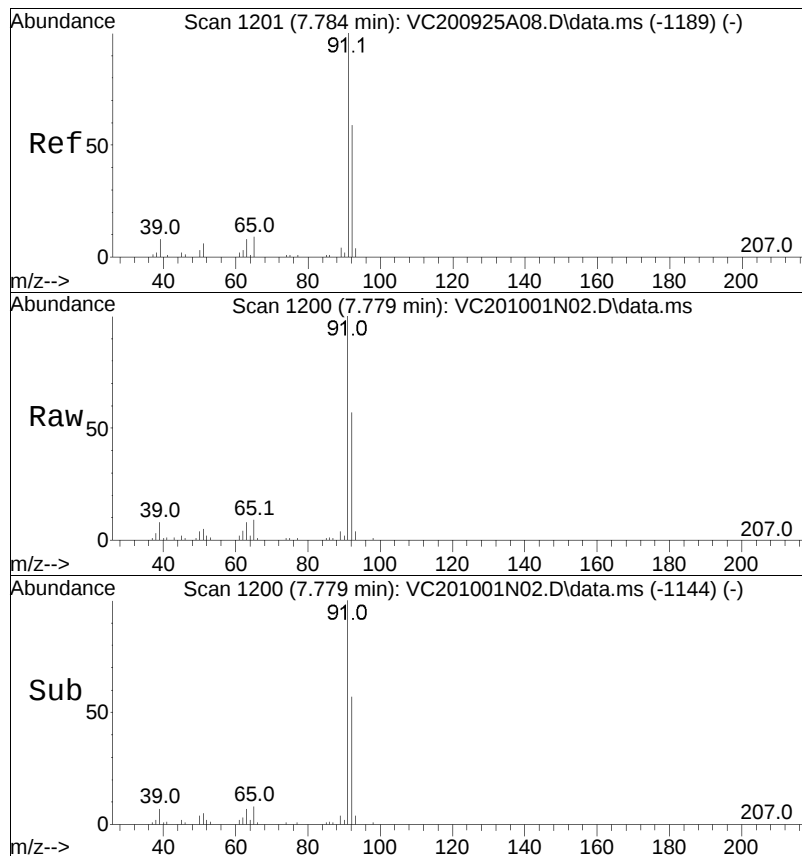




#58
 cis-1,3-Dichloropropene
 Concen: 32.32 ug/L
 RT: 7.516 min Scan# 1150
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

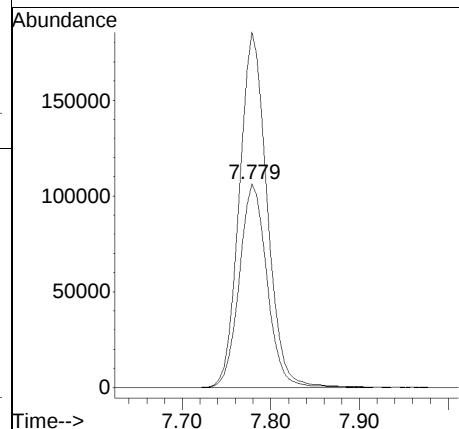
Tgt Ion:	75	Resp:	125816
Ion Ratio	Lower	Upper	
75	100		
77	32.1	25.1	37.7
39	40.1	35.0	52.6

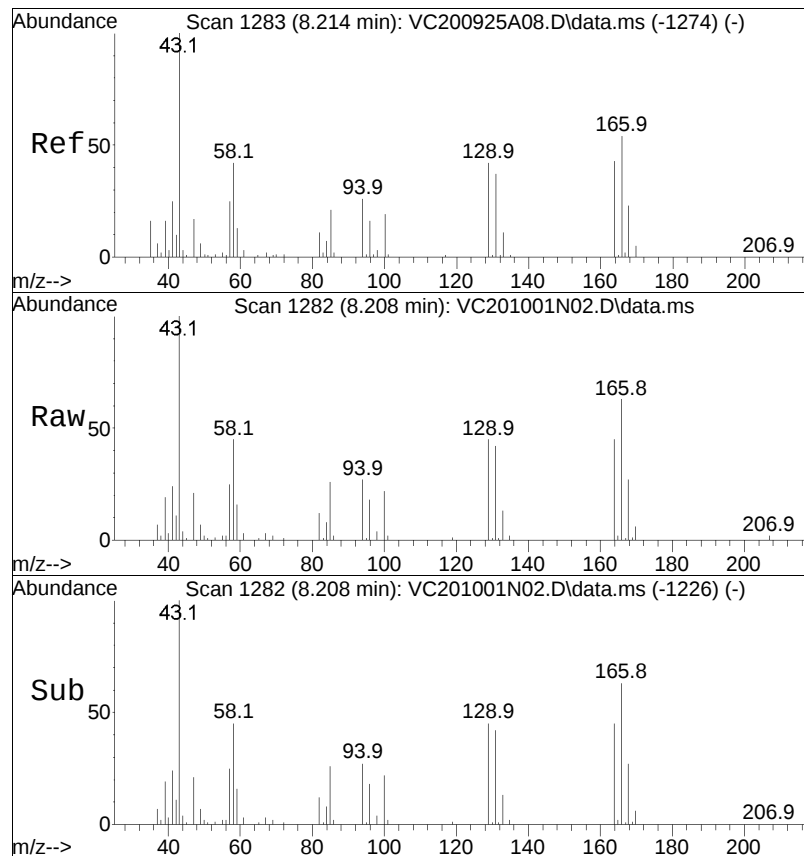




#61
 Toluene
 Concen: 35.45 ug/L
 RT: 7.779 min Scan# 1200
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

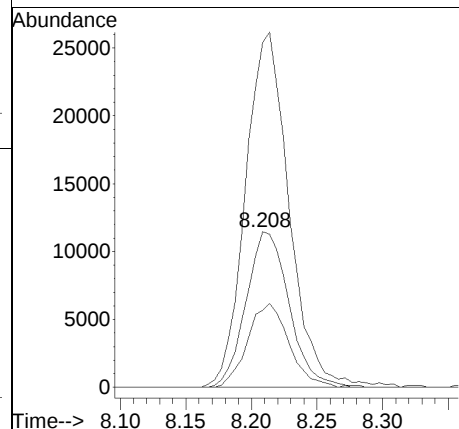
Tgt Ion	Ratio	Lower	Upper
92	100		
91	174.3	137.8	206.6

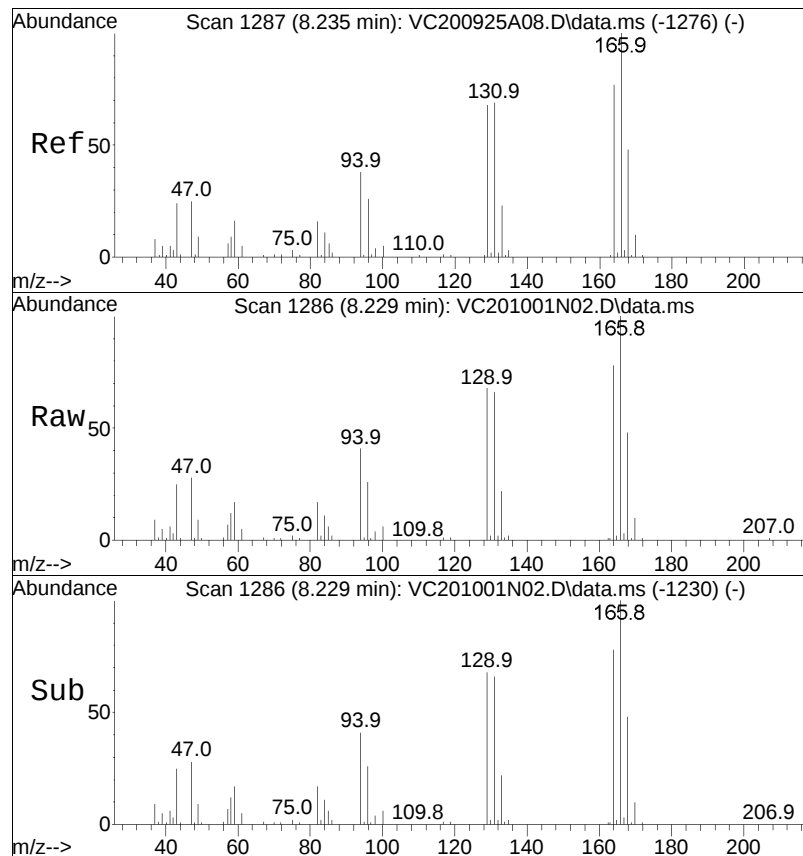




#62
 4-Methyl-2-pentanone
 Concen: 37.60 ug/L
 RT: 8.208 min Scan# 1282
 Delta R.T. -0.006 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

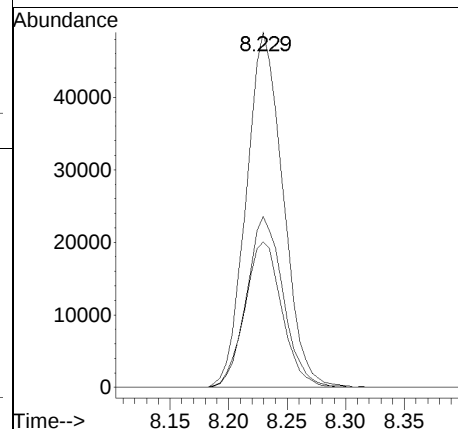
Tgt Ion	Ratio	Lower	Upper
58	100		
100	51.9	36.9	55.3
43	230.8	205.4	308.2

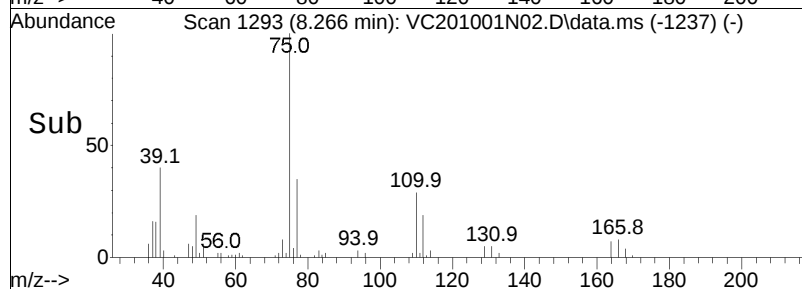
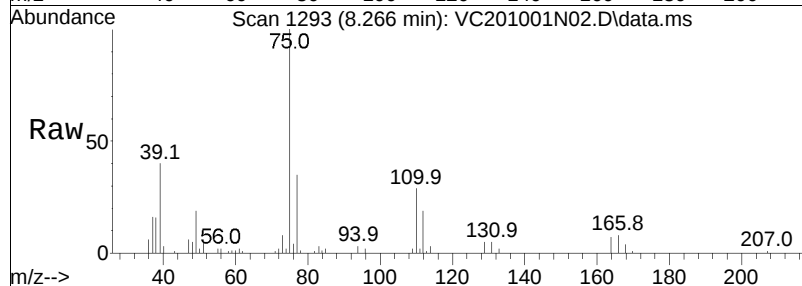
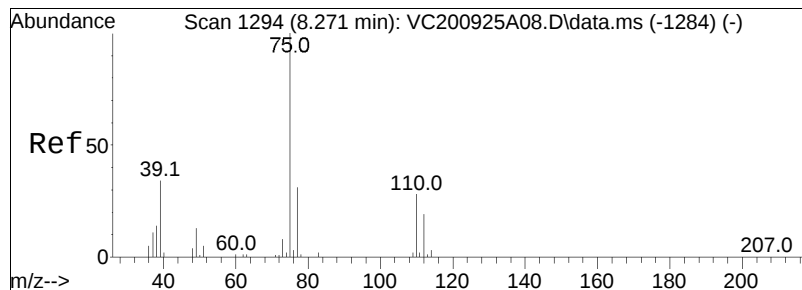




#63
 Tetrachloroethene
 Concen: 35.01 ug/L
 RT: 8.229 min Scan# 1286
 Delta R.T. -0.006 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

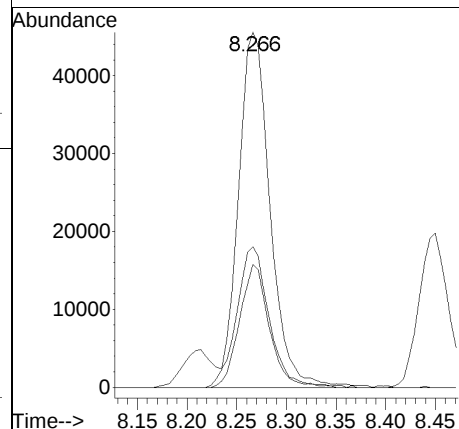
Tgt	Ion	Ratio	Resp	Lower	Upper
166	100		107288		
168	47.7	26.4		66.4	
94	41.3	21.5		61.5	

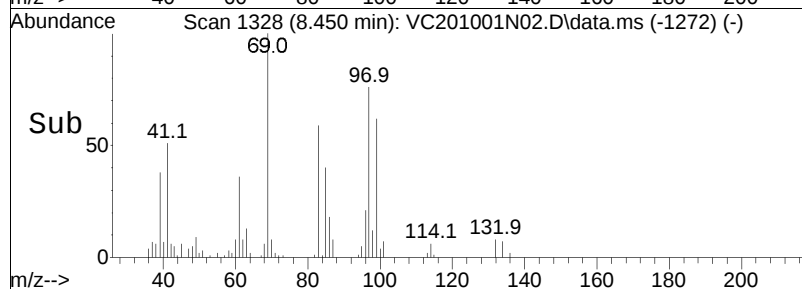
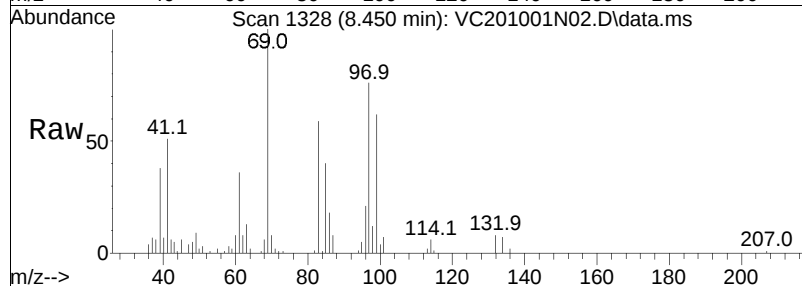
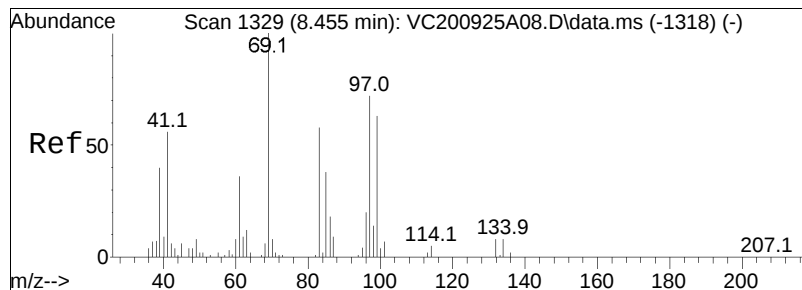




#65
 trans-1,3-Dichloropropene
 Concen: 30.97 ug/L
 RT: 8.266 min Scan# 1293
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.3	11.7	51.7
39	39.4	23.8	63.8





#68

1,1,2-Trichloroethane

Concen: 35.54 ug/L

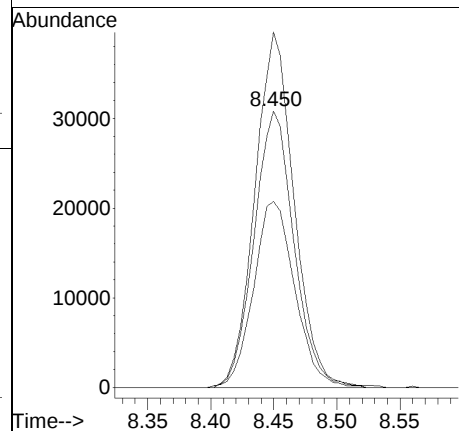
RT: 8.450 min Scan# 1328

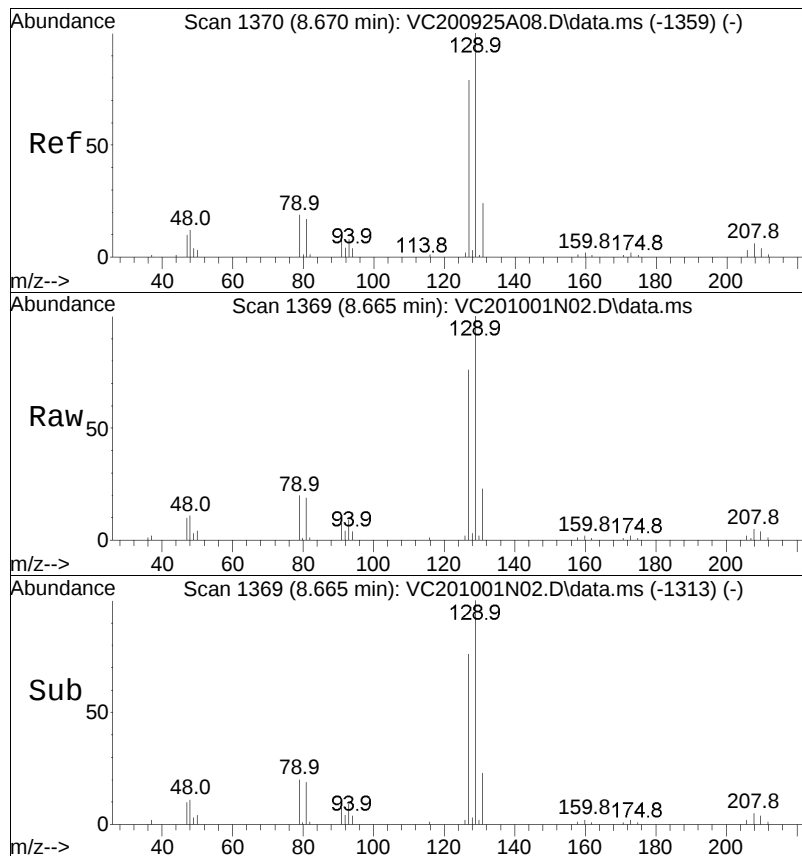
Delta R.T. -0.005 min

Lab File: VC201001N02.D

Acq: 1 Oct 2020 6:05 pm

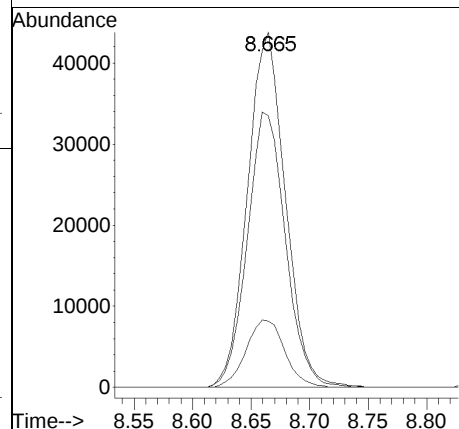
Tgt	Ion: 83	Resp:	67844
Ion	Ratio	Lower	Upper
83	100		
97	126.3	98.7	138.7
85	69.7	47.1	87.1

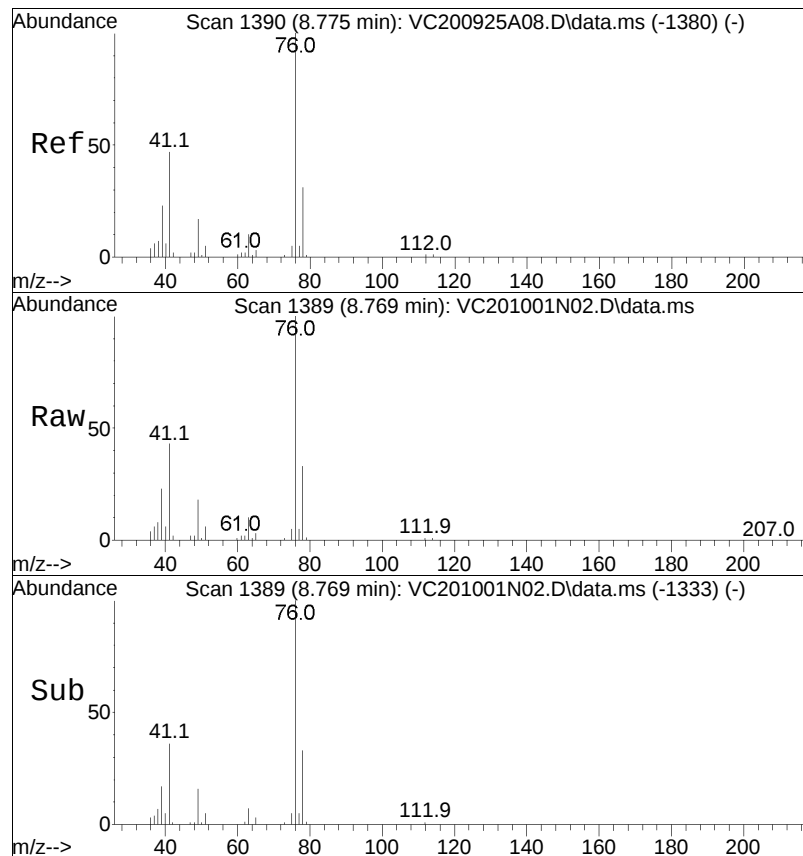




#69
 Chlorodibromomethane
 Concen: 32.32 ug/L
 RT: 8.665 min Scan# 1369
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

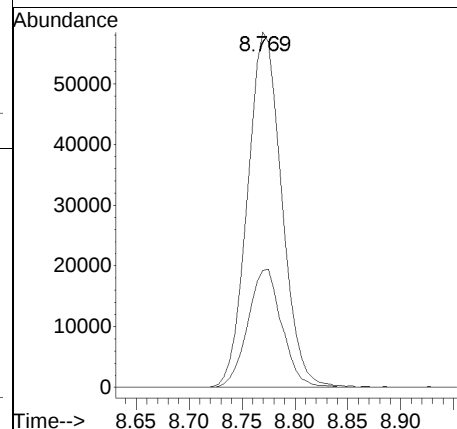
Tgt Ion	Ratio	Resp	Lower	Upper
129	100	98709		
81	19.4		0.0	37.3
127	78.0		57.7	97.7

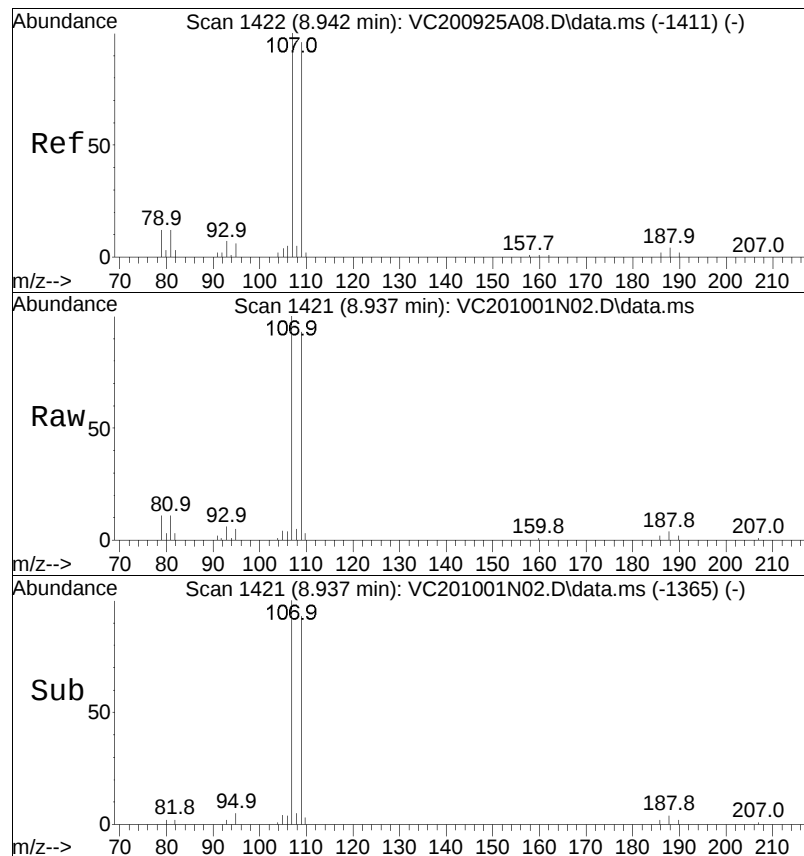




#70
 1,3-Dichloropropane
 Concen: 37.71 ug/L
 RT: 8.769 min Scan# 1389
 Delta R.T. -0.006 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

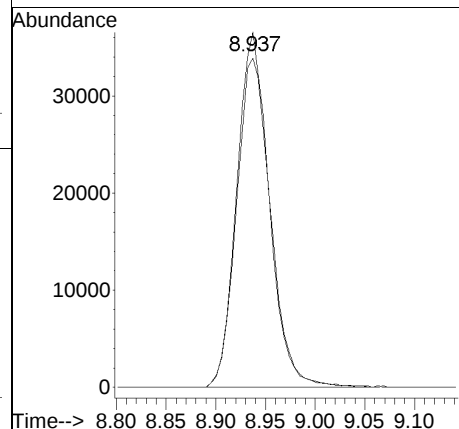
Tgt Ion	Ratio	Lower	Upper
76	100		
78	33.1	25.9	38.9

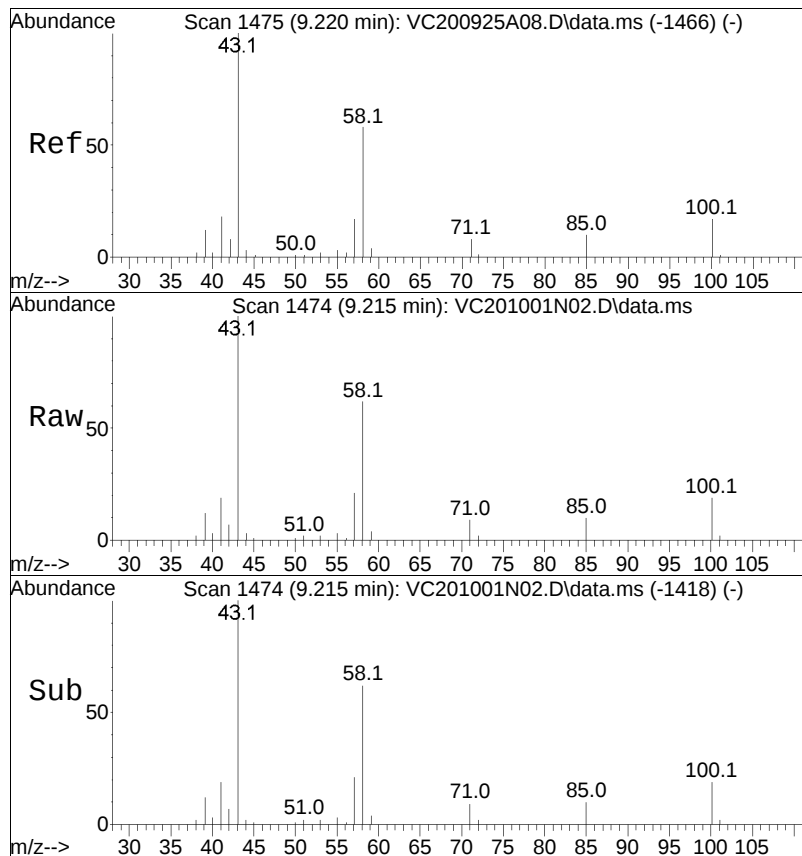




#71
 1,2-Dibromoethane
 Concen: 38.23 ug/L
 RT: 8.937 min Scan# 1421
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

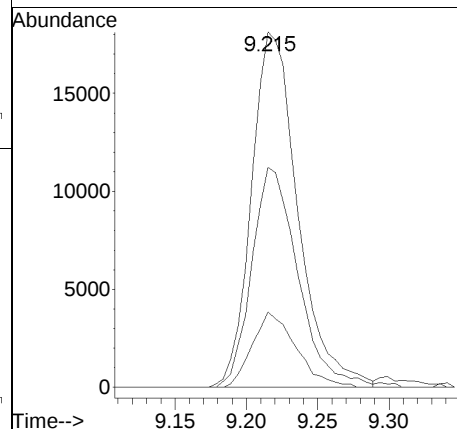
Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.9	75.8	113.8

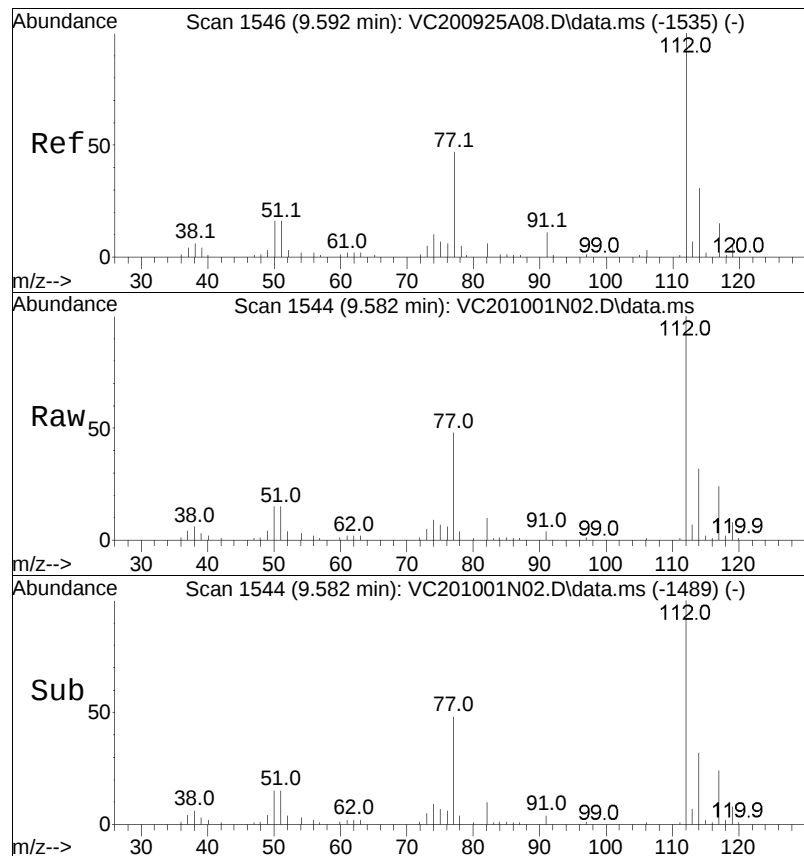




#72
 2-Hexanone
 Concen: 33.56 ug/L
 RT: 9.215 min Scan# 1474
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

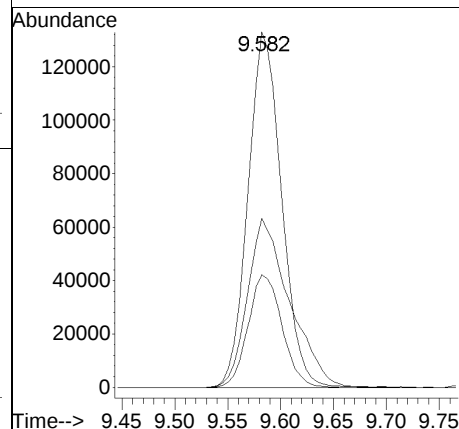
Tgt Ion:	43	Resp:	41137
Ion Ratio	Lower	Upper	
43	100		
58	61.9	44.4	66.6
57	20.0	15.6	23.4

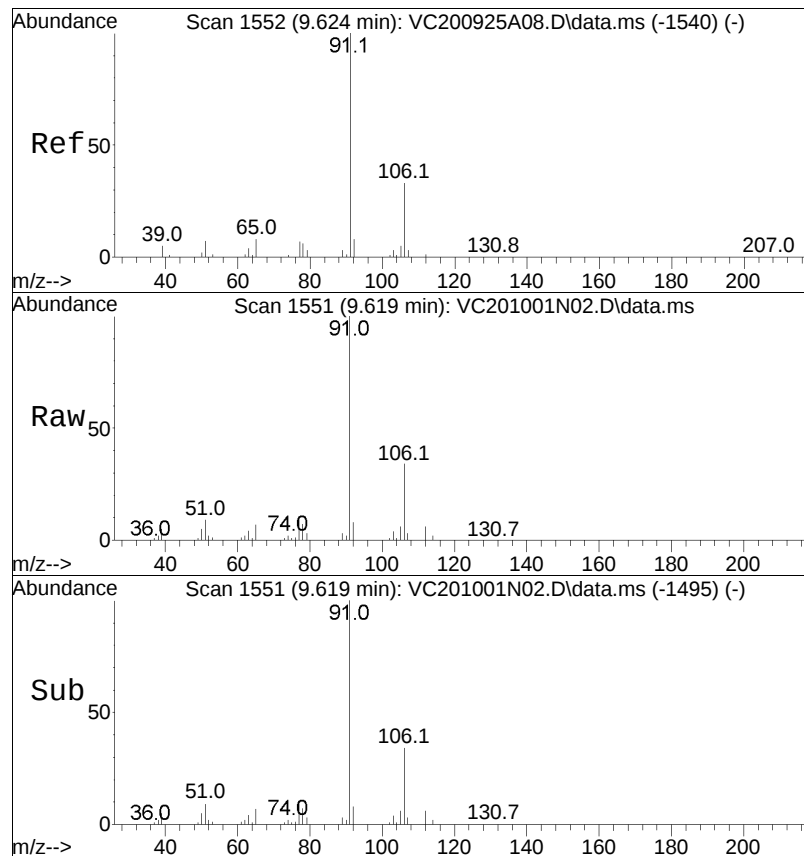




#73
 Chlorobenzene
 Concen: 33.23 ug/L
 RT: 9.582 min Scan# 1544
 Delta R.T. -0.010 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

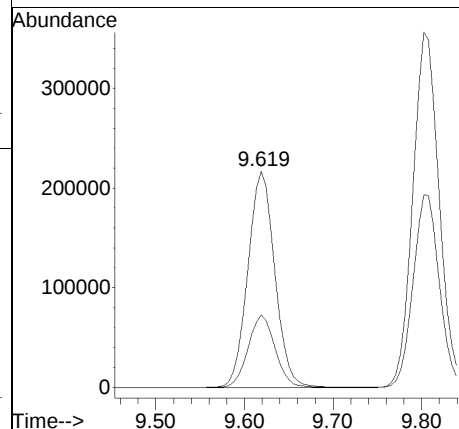
Tgt	Ion	Ratio	Lower	Upper
112	100			
77	59.8	51.9	77.9	
114	32.1	25.8	38.6	

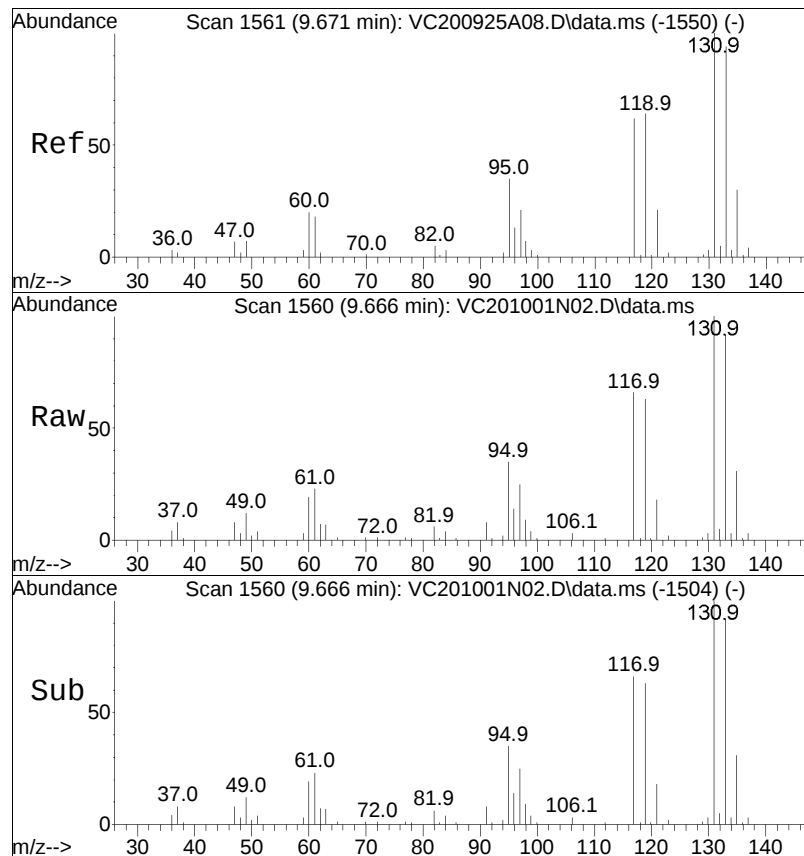




#74
 Ethylbenzene
 Concen: 35.19 ug/L
 RT: 9.619 min Scan# 1551
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

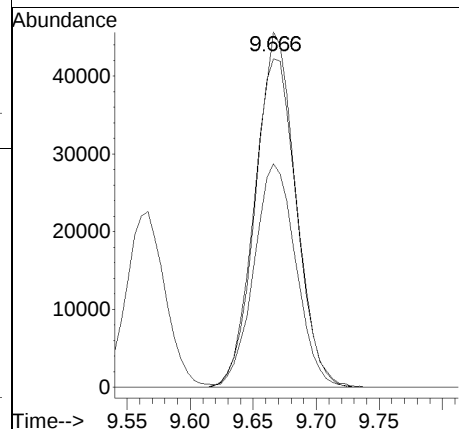
Tgt Ion	Ratio	Lower	Upper
91	100		
106	33.4	26.0	39.0

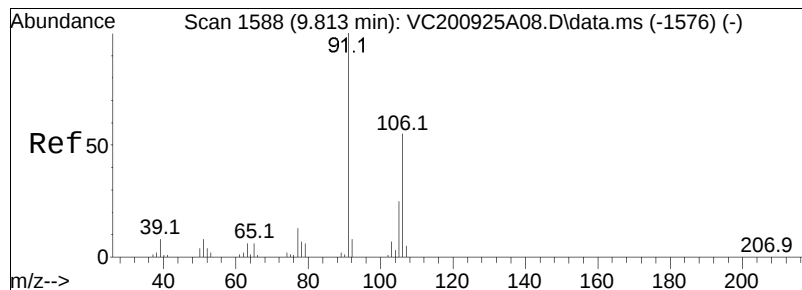




#75
 1,1,1,2-Tetrachloroethane
 Concen: 32.15 ug/L
 RT: 9.666 min Scan# 1560
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

Tgt Ion:	131	Resp:	102484
Ion Ratio	Lower	Upper	
131	100		
133	95.6	75.0	115.0
119	64.9	46.1	86.1





#76

p/m Xylene

Concen: 68.60 ug/L

RT: 9.802 min Scan# 1586

Delta R.T. -0.011 min

Lab File: VC201001N02.D

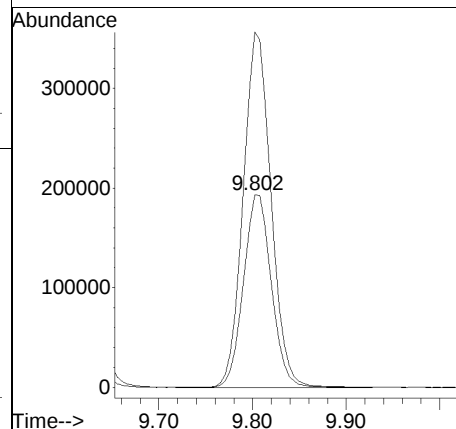
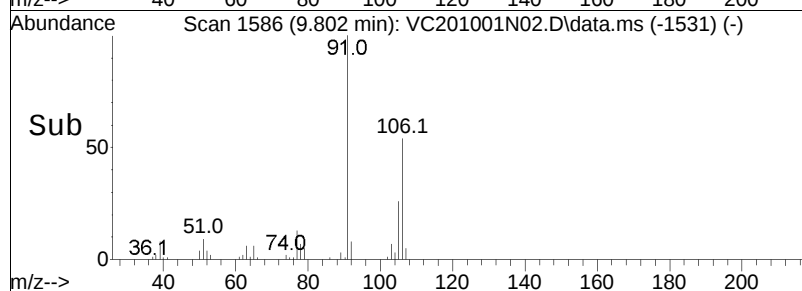
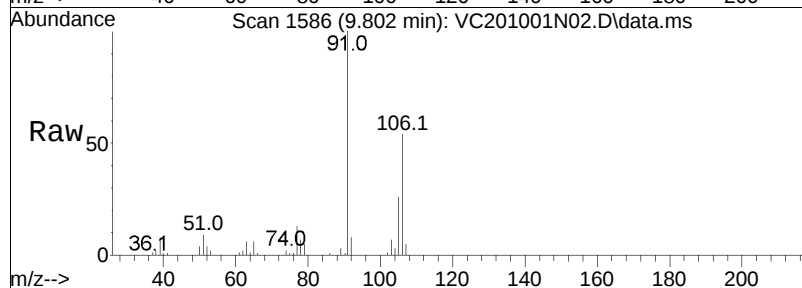
Acq: 1 Oct 2020 6:05 pm

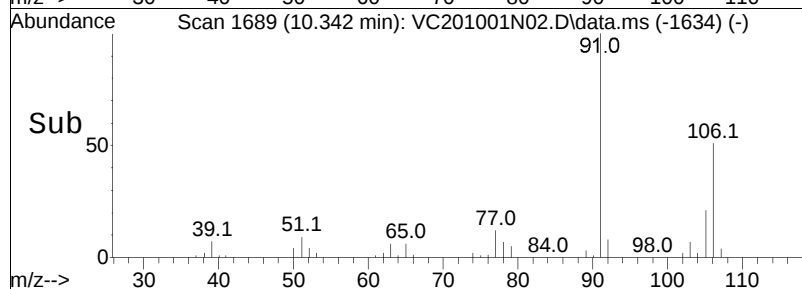
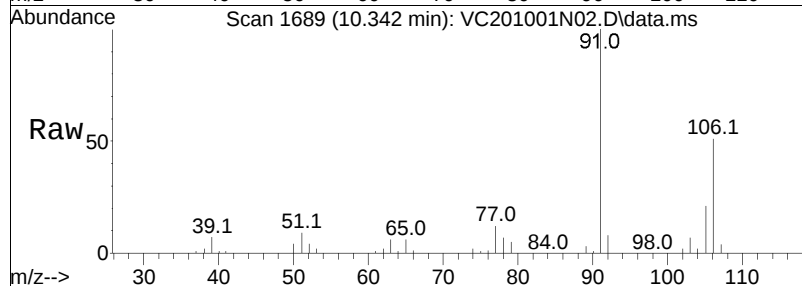
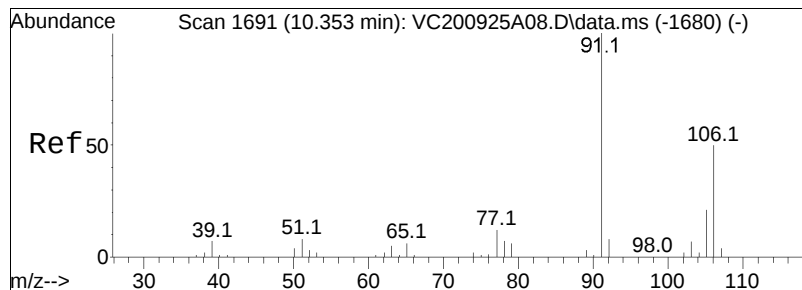
Tgt Ion:106 Resp: 399781

Ion Ratio Lower Upper

106 100

91 183.3 152.9 229.3





#77

o Xylene

Concen: 67.62 ug/L

RT: 10.342 min Scan# 1689

Delta R.T. -0.011 min

Lab File: VC201001N02.D

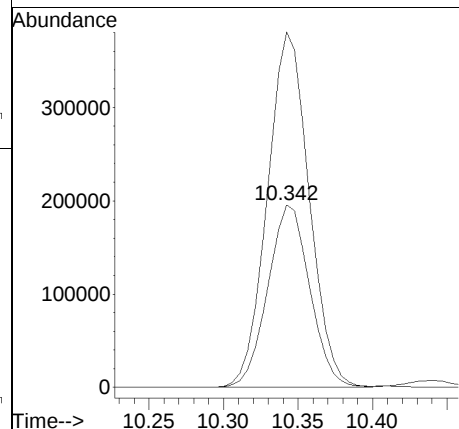
Acq: 1 Oct 2020 6:05 pm

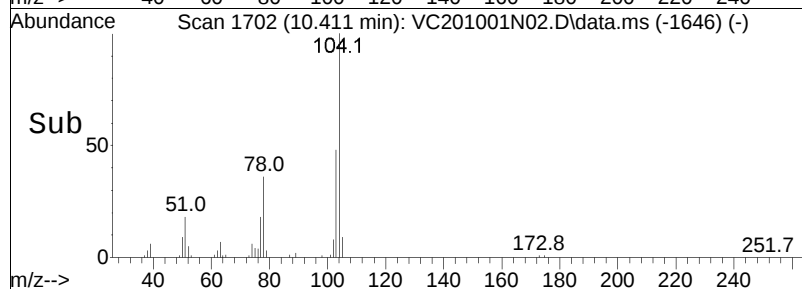
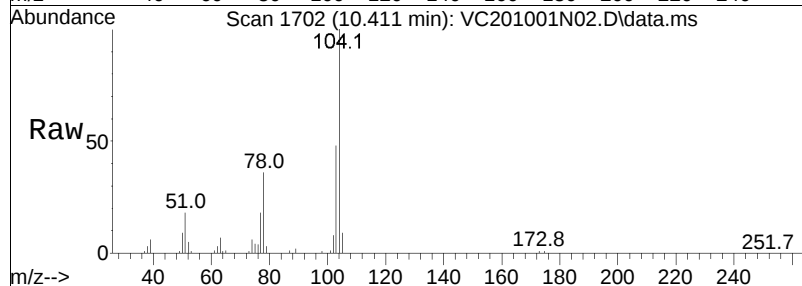
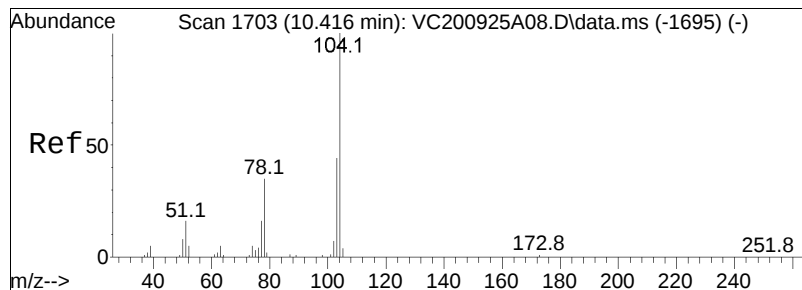
Tgt Ion:106 Resp: 382889

Ion Ratio Lower Upper

106 100

91 193.6 161.5 242.3





#78

Styrene

Concen: 67.20 ug/L

RT: 10.411 min Scan# 1702

Delta R.T. -0.005 min

Lab File: VC201001N02.D

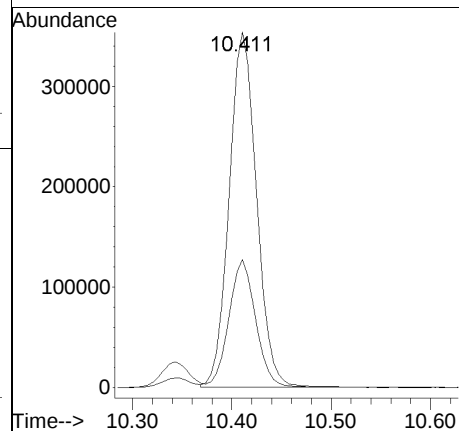
Acq: 1 Oct 2020 6:05 pm

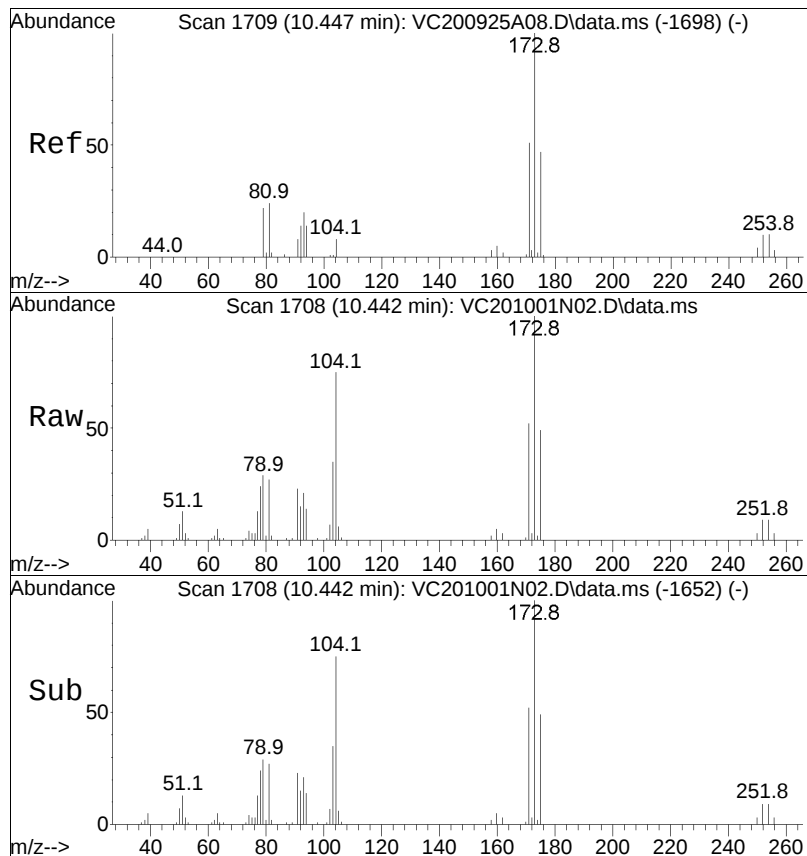
Tgt Ion:104 Resp: 676702

Ion Ratio Lower Upper

104 100

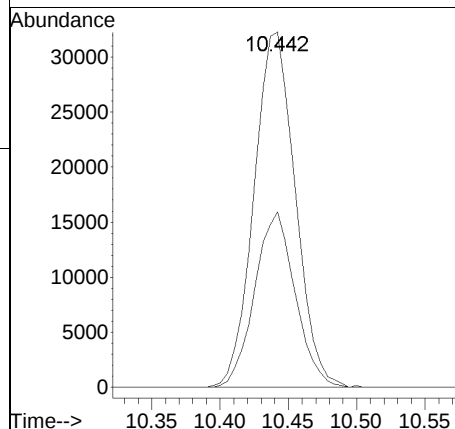
78 35.2 30.7 46.1

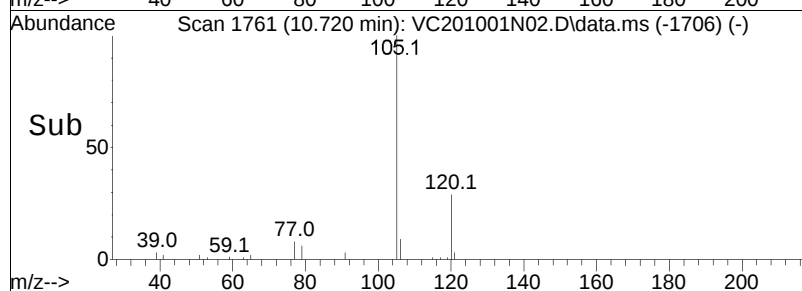
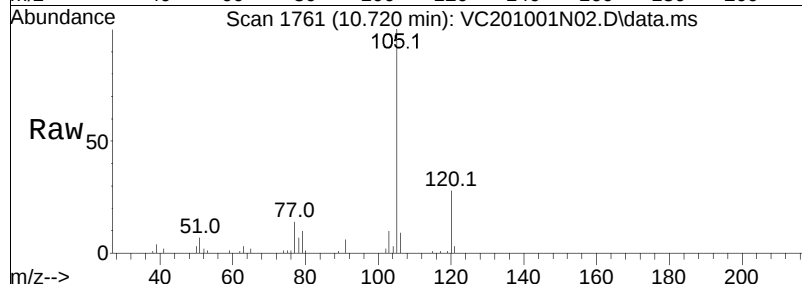
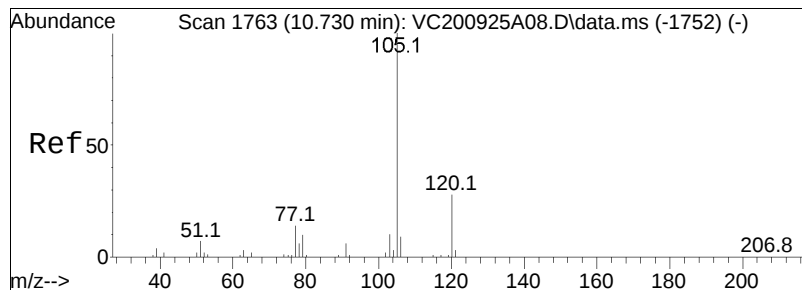




#80
 Bromoform
 Concen: 31.11 ug/L
 RT: 10.442 min Scan# 1708
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

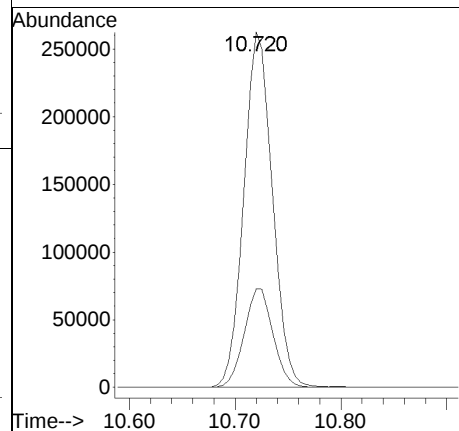
Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.3	29.1	69.1

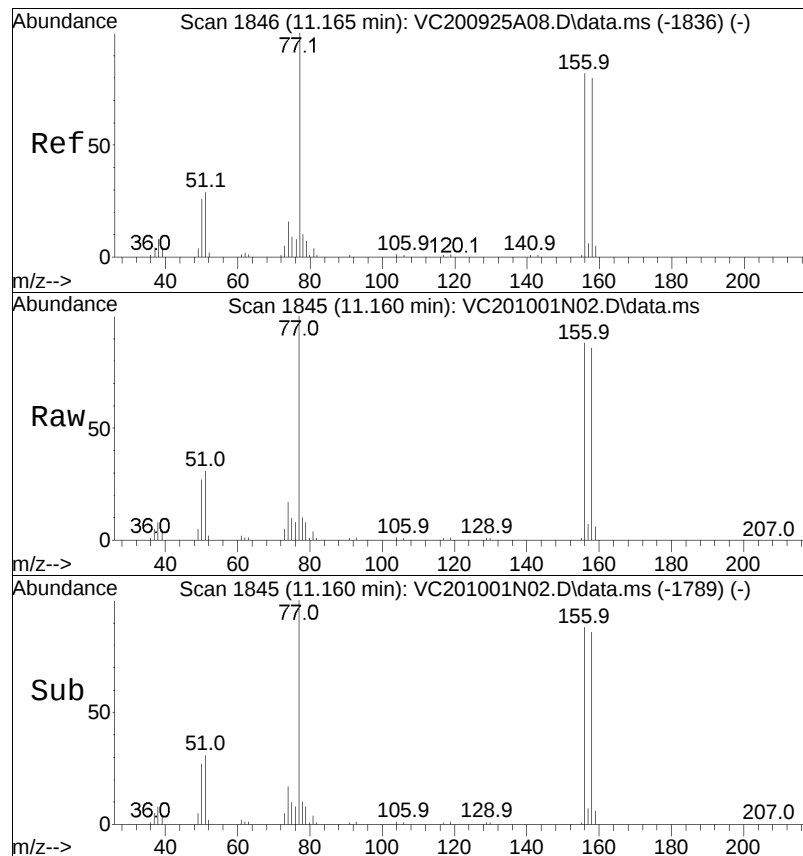




#82
 Isopropylbenzene
 Concen: 38.01 ug/L
 RT: 10.720 min Scan# 1761
 Delta R.T. -0.010 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

Tgt Ion	Ratio	Lower	Upper
105	100		
120	28.0	8.1	48.1





#84

Bromobenzene

Concen: 37.46 ug/L

RT: 11.160 min Scan# 1845

Delta R.T. -0.005 min

Lab File: VC201001N02.D

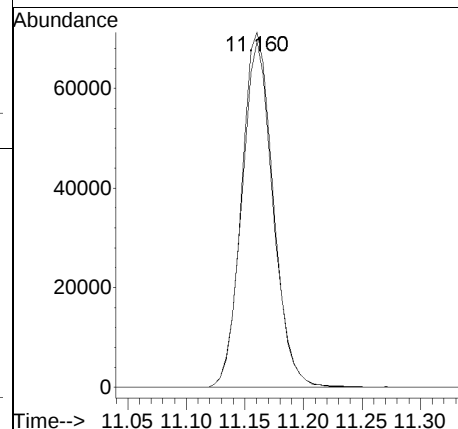
Acq: 1 Oct 2020 6:05 pm

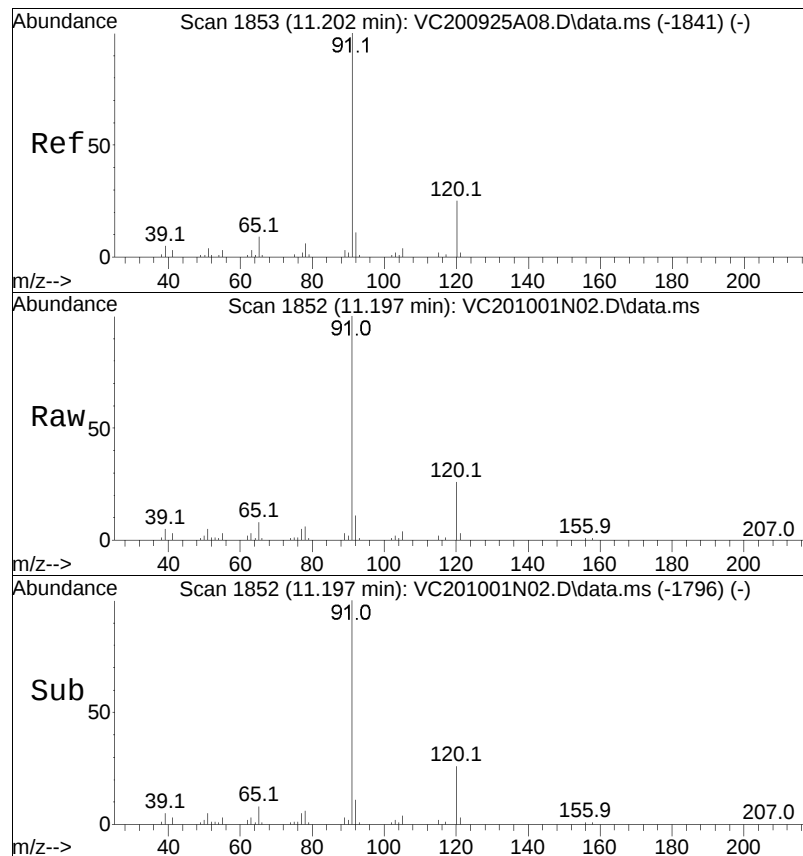
Tgt Ion:156 Resp: 134402

Ion Ratio Lower Upper

156 100

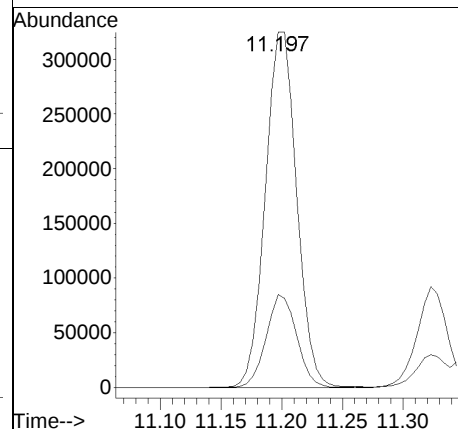
158 95.6 76.4 114.6

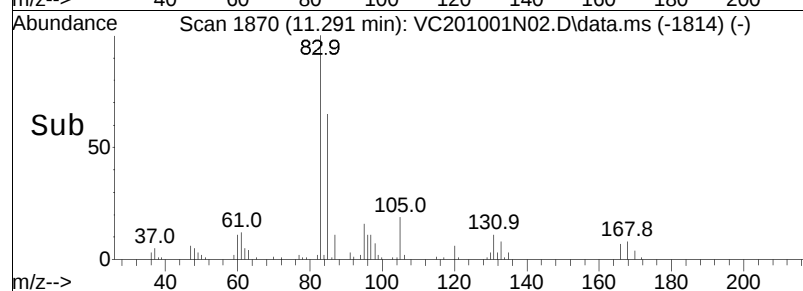
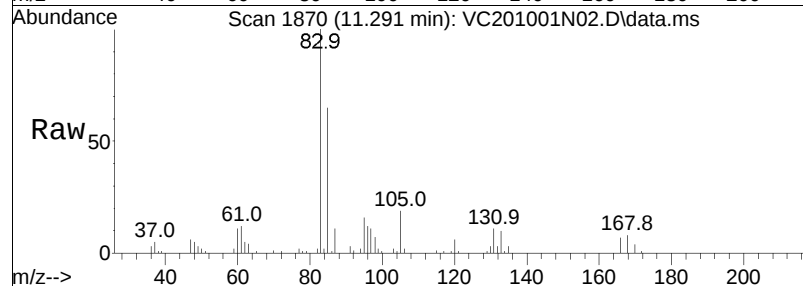
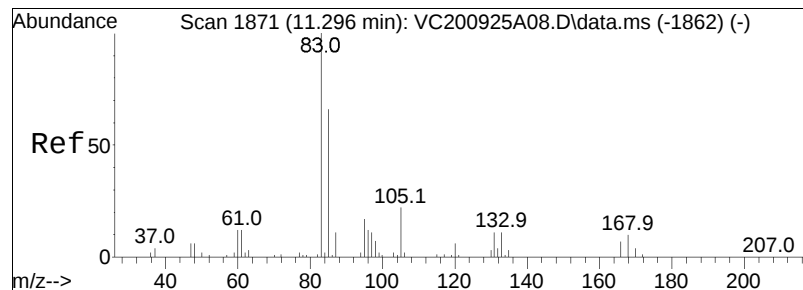




#85
 n-Propylbenzene
 Concen: 39.00 ug/L
 RT: 11.197 min Scan# 1852
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

Tgt Ion	Ratio	Lower	Upper
91	100		
120	25.3	19.4	29.0





#87

1,1,2,2-Tetrachloroethane

Concen: 39.08 ug/L

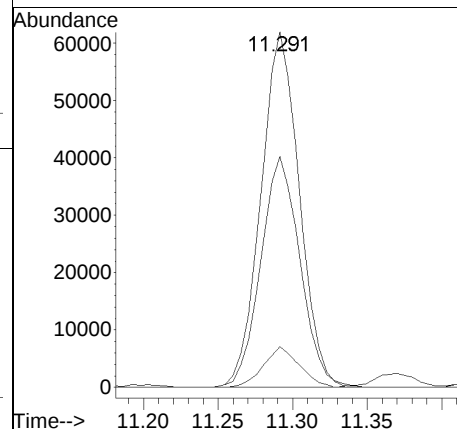
RT: 11.291 min Scan# 1870

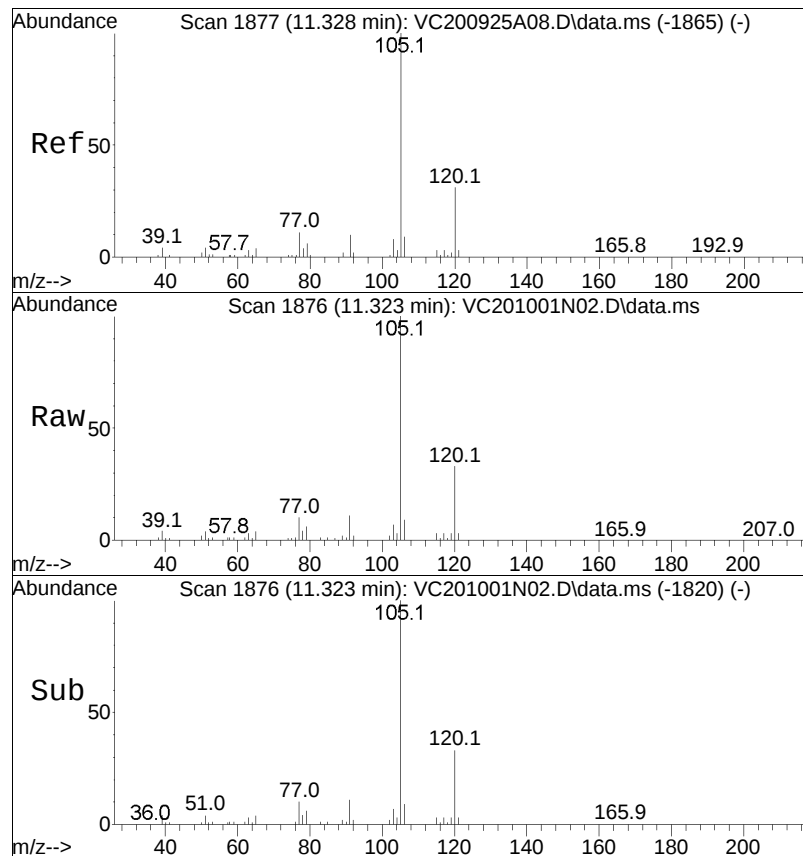
Delta R.T. -0.005 min

Lab File: VC201001N02.D

Acq: 1 Oct 2020 6:05 pm

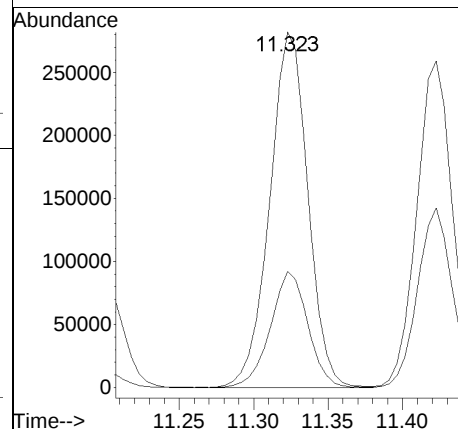
Tgt Ion:	83	Resp:	111095
Ion Ratio	Lower	Upper	
83	100		
131	10.8	0.0	30.9
85	66.4	45.5	85.5

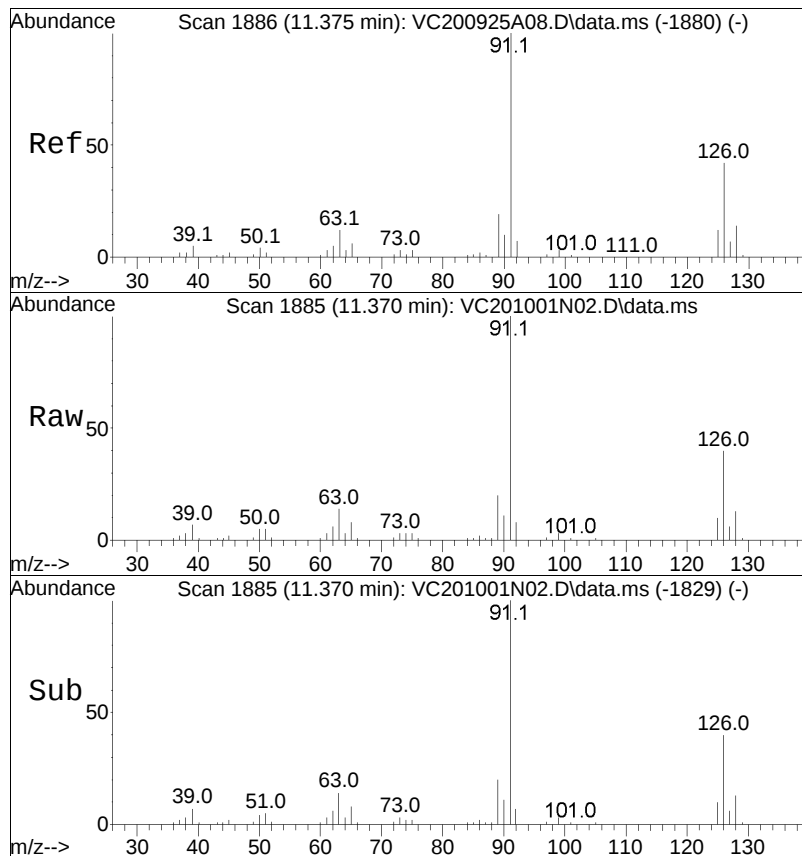




#88
 4-Ethyltoluene
 Concen: 38.75 ug/L
 RT: 11.323 min Scan# 1876
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

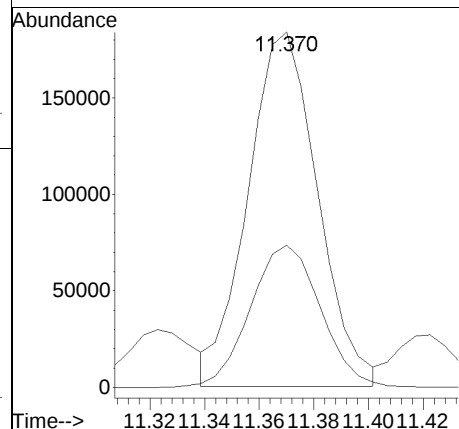
Tgt Ion	Ratio	Lower	Upper
105	100		
120	32.0	20.3	42.3

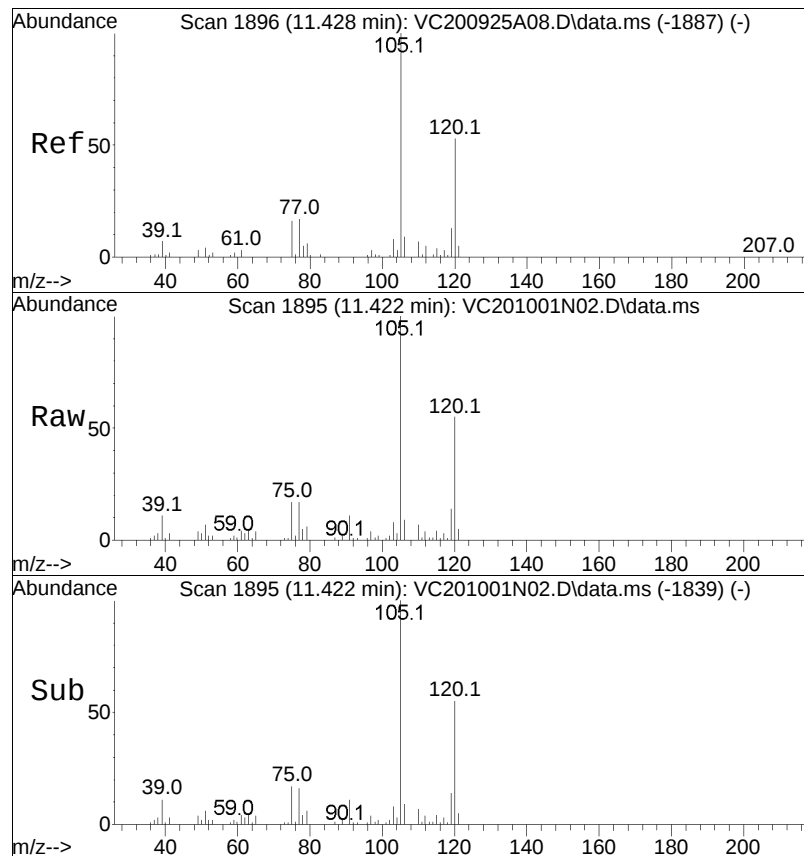




#89
 2-Chlorotoluene
 Concen: 37.37 ug/L
 RT: 11.370 min Scan# 1885
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

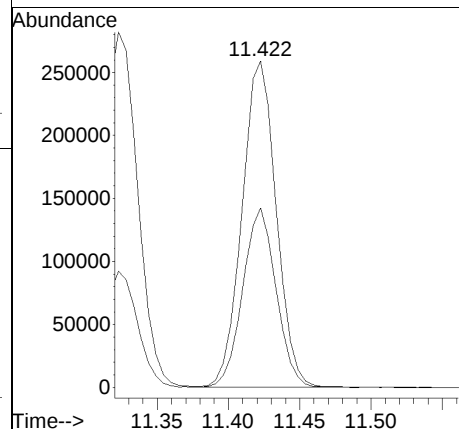
Tgt	Ion	Resp	Lower	Upper
91	100	325441		
126	40.6	29.6	44.4	

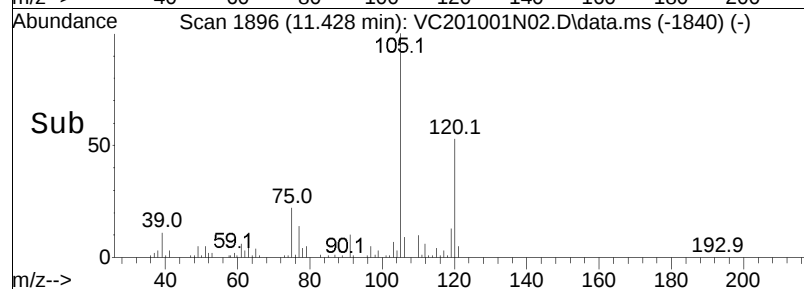
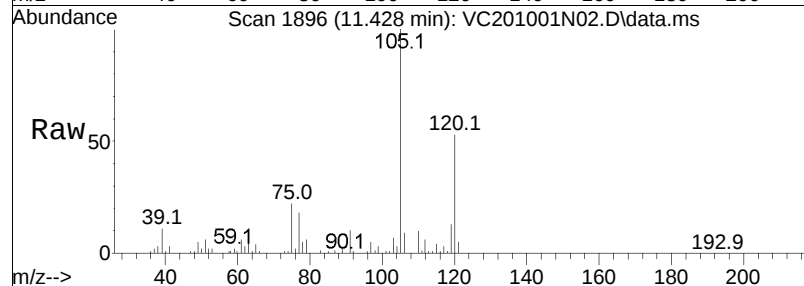
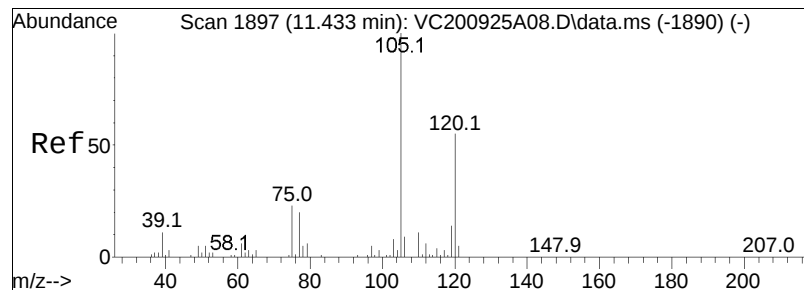




#90
 1,3,5-Trimethylbenzene
 Concen: 37.73 ug/L
 RT: 11.422 min Scan# 1895
 Delta R.T. -0.006 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

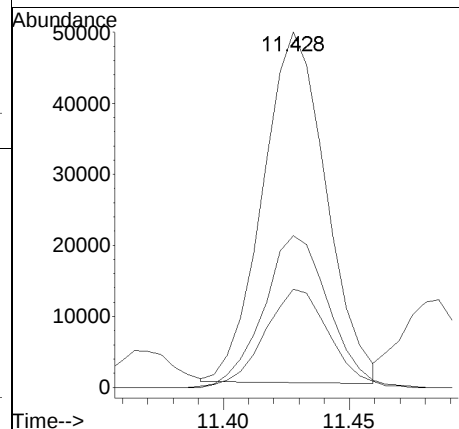
Tgt Ion	105	120	Ratio	Lower	Upper
Resp	431404				
Ratio	100	53.6		41.0	61.4

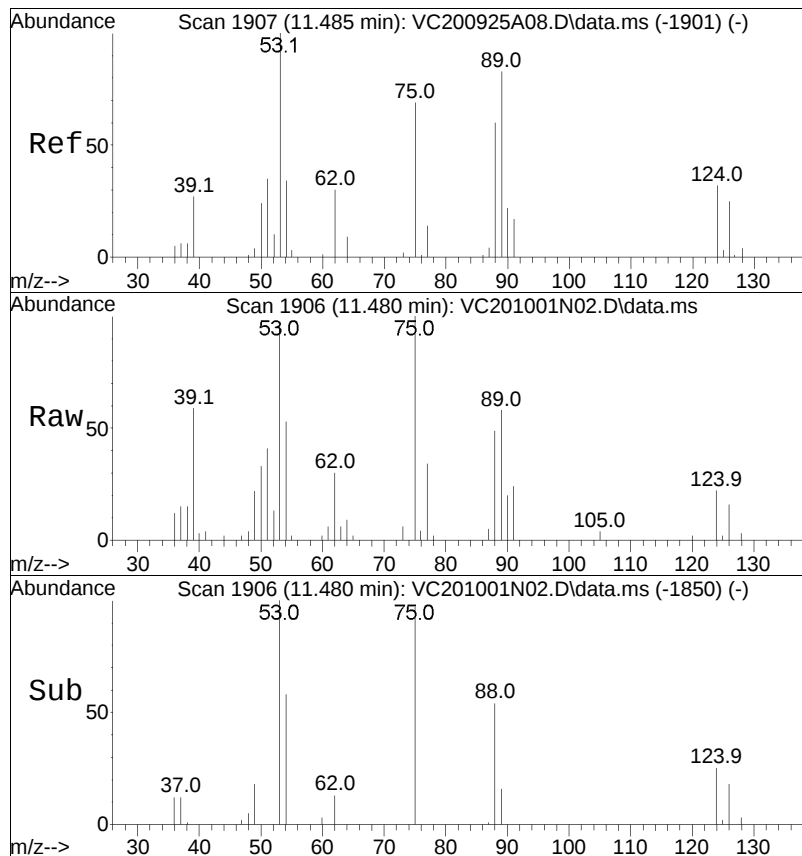




#91
 1,2,3-Trichloropropane
 Concen: 38.46 ug/L
 RT: 11.428 min Scan# 1896
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

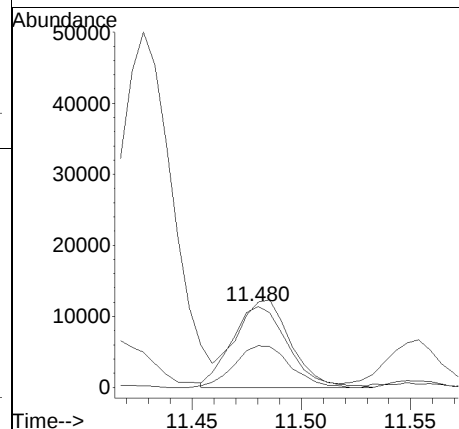
Tgt Ion	Ratio	Lower	Upper
75	100		
110	44.4	27.6	57.2
112	28.6	17.7	36.7

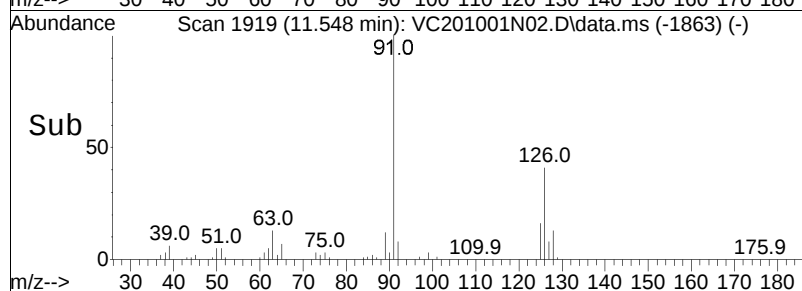
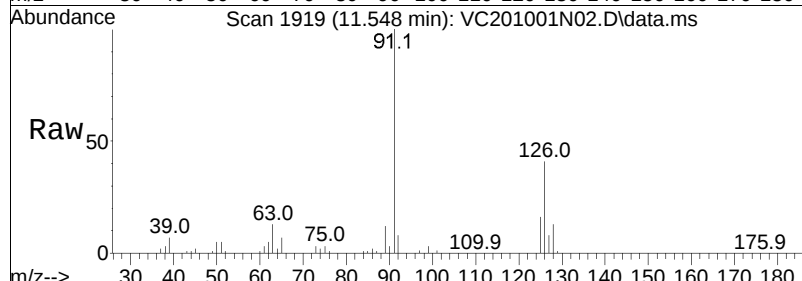
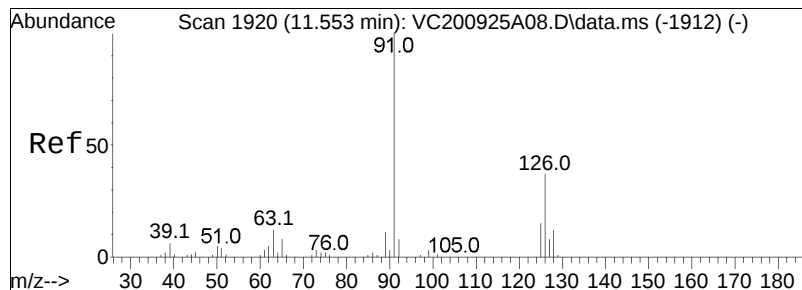




#92
 trans-1,4-Dichloro-2-butene
 Concen: 34.57 ug/L
 RT: 11.480 min Scan# 1906
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

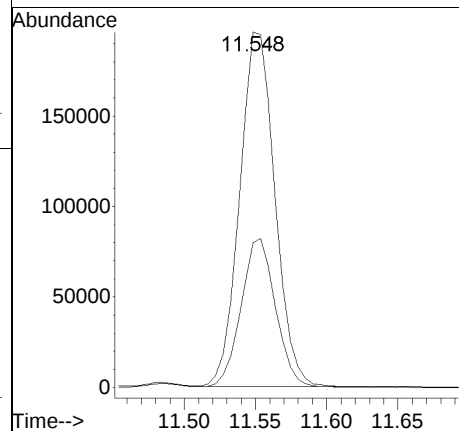
Tgt	Ion	Resp	Lower	Upper
53	100			
88	51.2	48.2	72.4	
75	103.7	114.2	171.2	#

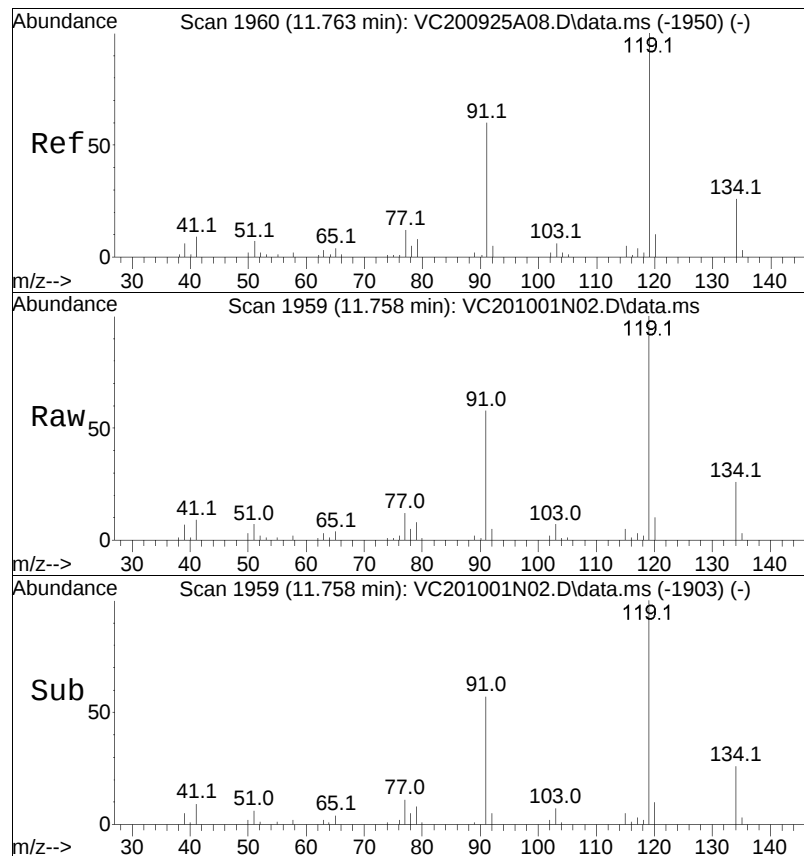




#93
 4-Chlorotoluene
 Concen: 37.78 ug/L
 RT: 11.548 min Scan# 1919
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

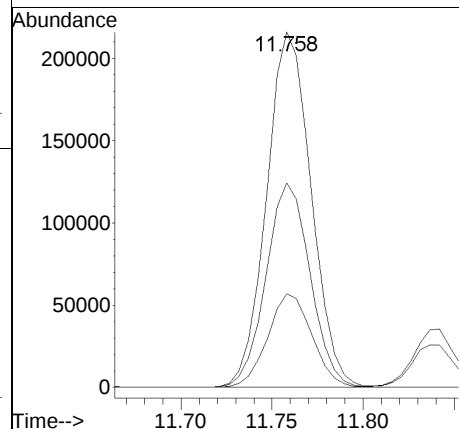
Tgt Ion:	91	Resp:	337046
Ion Ratio	100	Lower	Upper
126	40.9	29.9	44.9

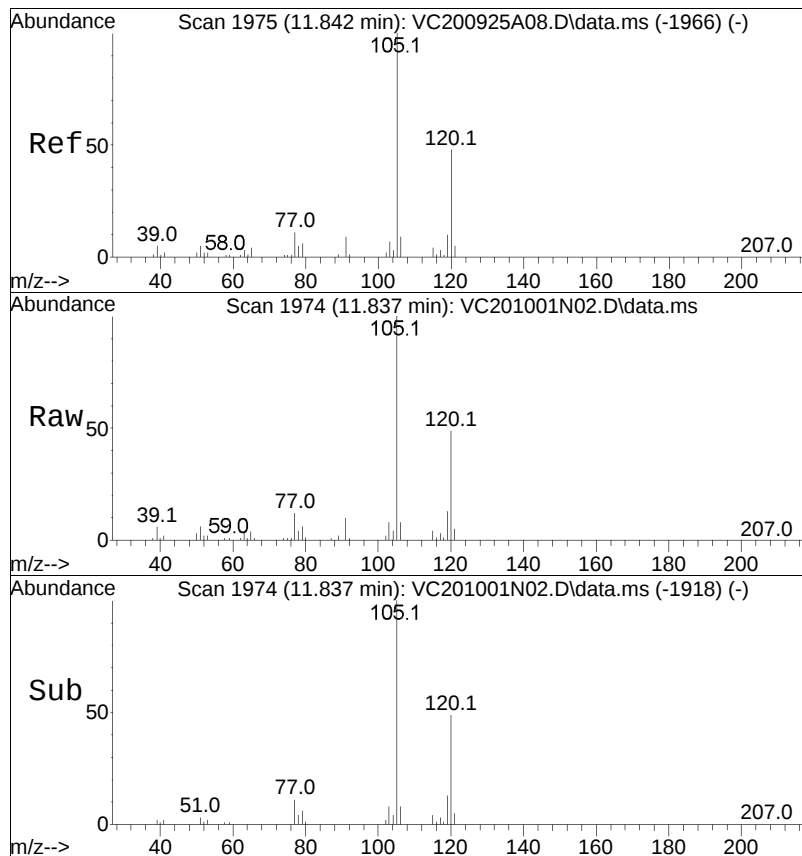




#94
 tert-Butylbenzene
 Concen: 37.38 ug/L
 RT: 11.758 min Scan# 1959
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

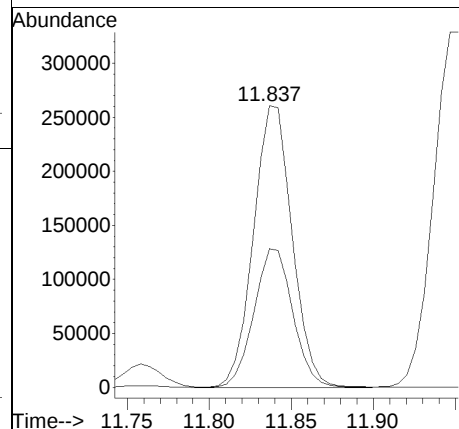
Tgt	Ion	Ratio	Lower	Upper
119	100			
91	57.0	49.9	74.9	
134	26.2	20.5	30.7	

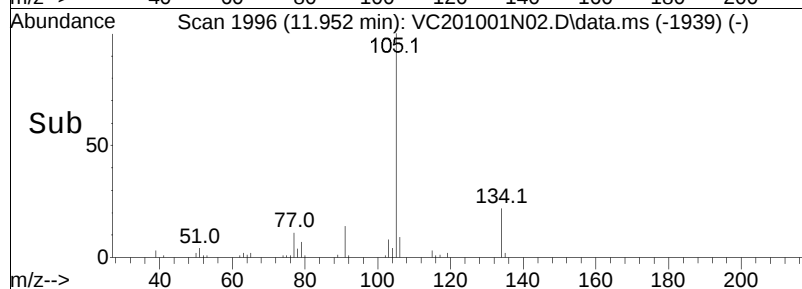
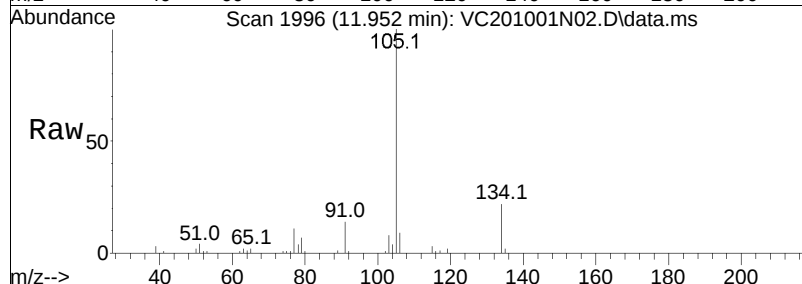
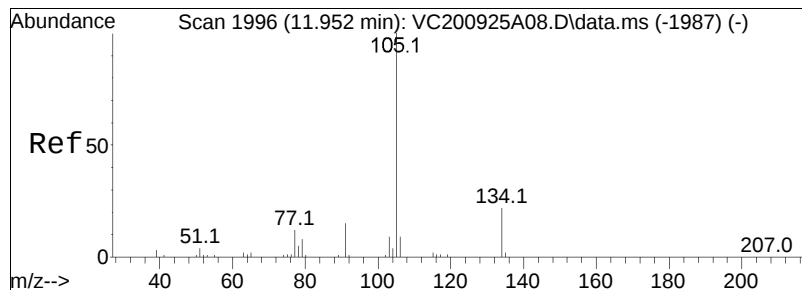




#97
 1,2,4-Trimethylbenzene
 Concen: 38.19 ug/L
 RT: 11.837 min Scan# 1974
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

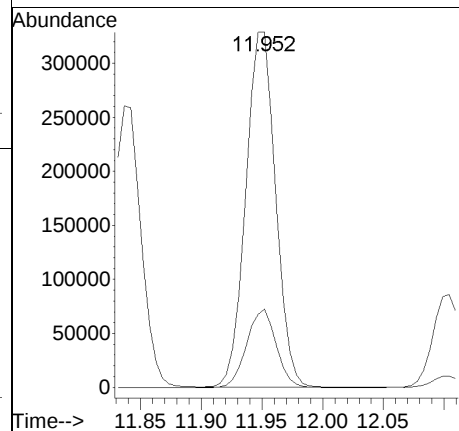
Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.3	38.2	57.4

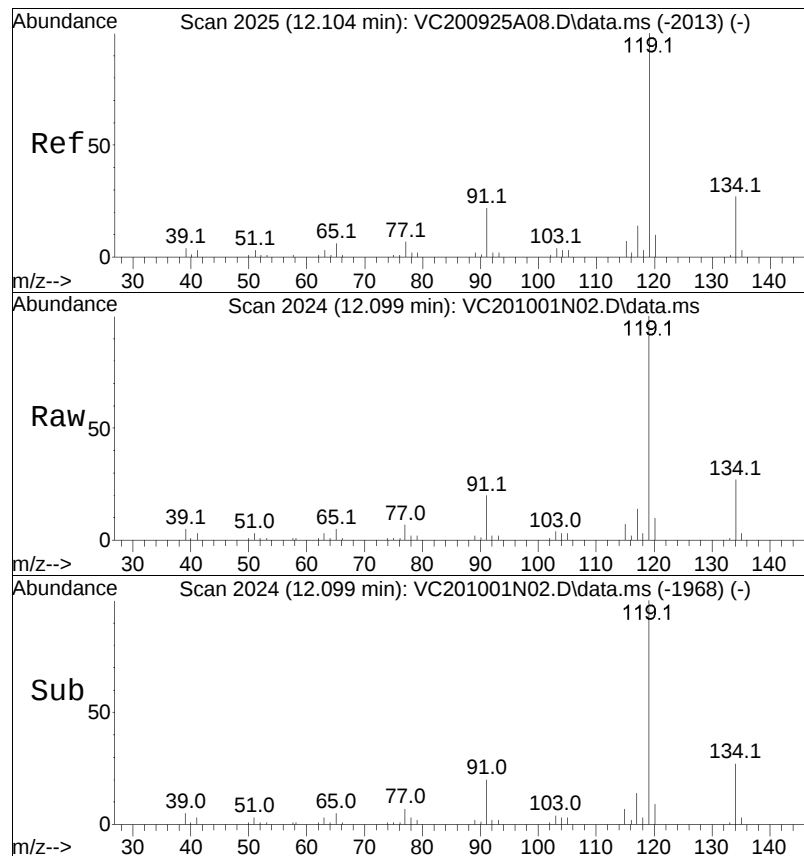




#98
 sec-Butylbenzene
 Concen: 38.20 ug/L
 RT: 11.952 min Scan# 1996
 Delta R.T. 0.000 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

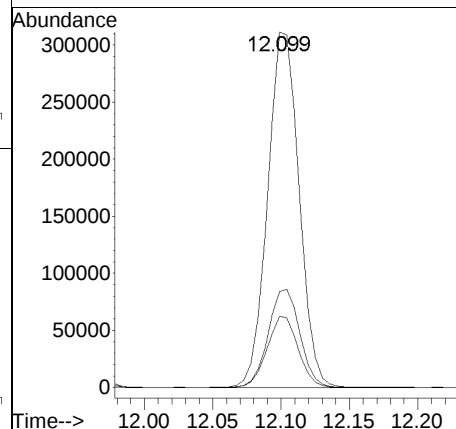
Tgt Ion	Ratio	Lower	Upper
105	100		
134	21.6	13.5	27.9

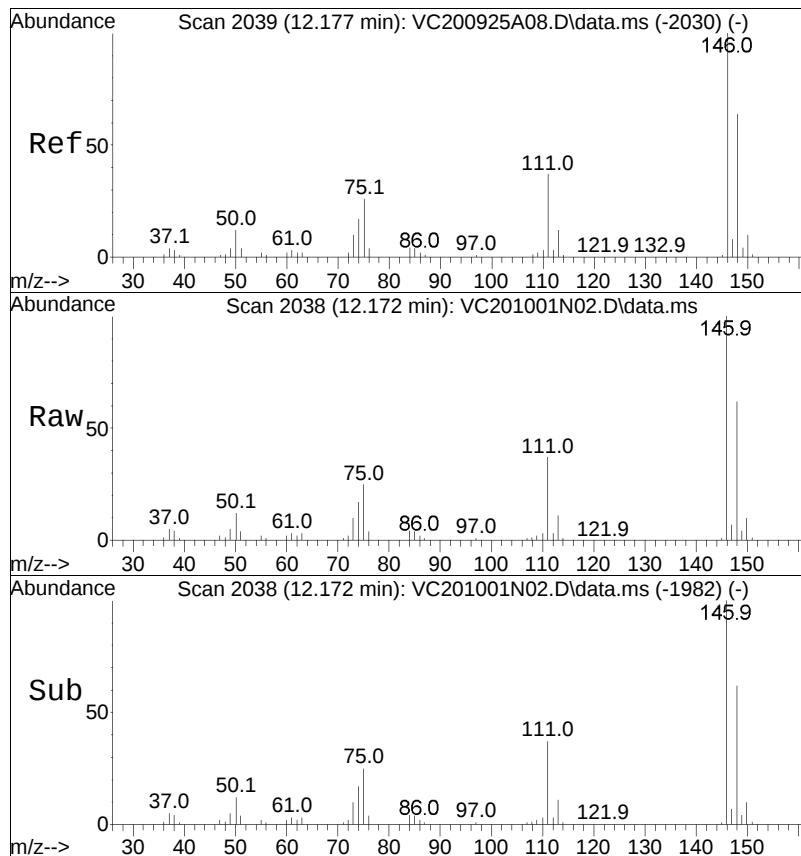




#99
 p-Isopropyltoluene
 Concen: 38.21 ug/L
 RT: 12.099 min Scan# 2024
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

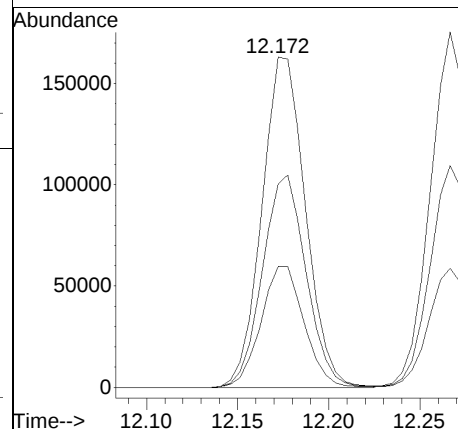
Tgt Ion:	119	Resp:	498626
Ion Ratio	Lower	Upper	
119	100		
134	27.7	17.0	35.4
91	19.8	14.0	29.2

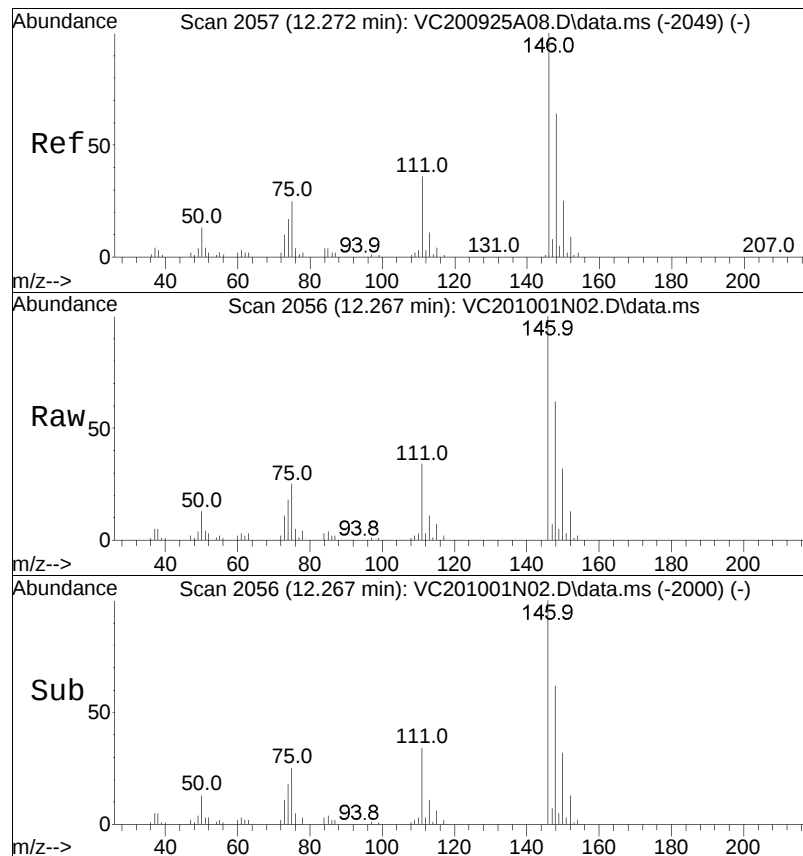




#100
 1,3-Dichlorobenzene
 Concen: 37.32 ug/L
 RT: 12.172 min Scan# 2038
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

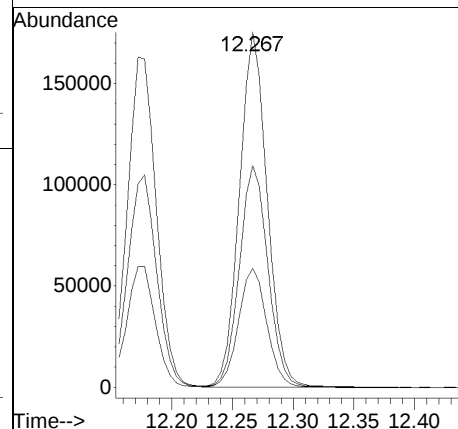
Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.3	24.9	51.7
148	64.2	41.6	86.4

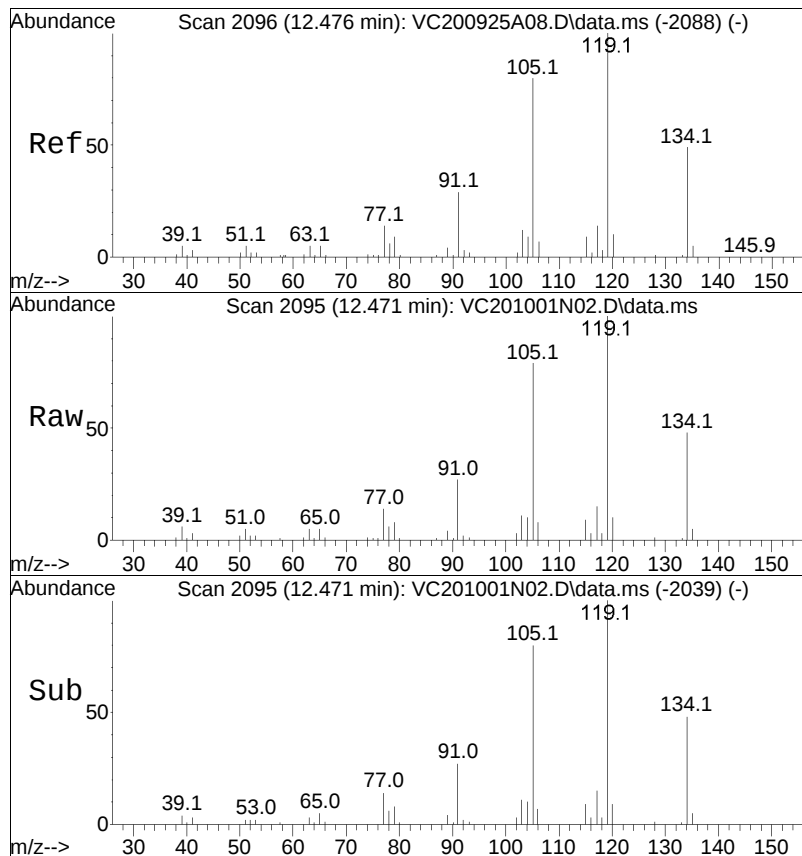




#101
 1,4-Dichlorobenzene
 Concen: 37.44 ug/L
 RT: 12.267 min Scan# 2056
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

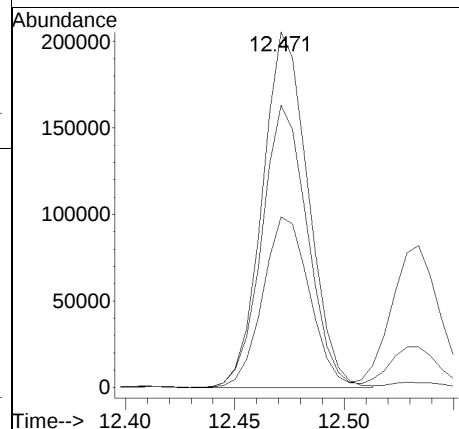
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	279706		
111	34.3		29.5	44.3
148	64.3		52.1	78.1

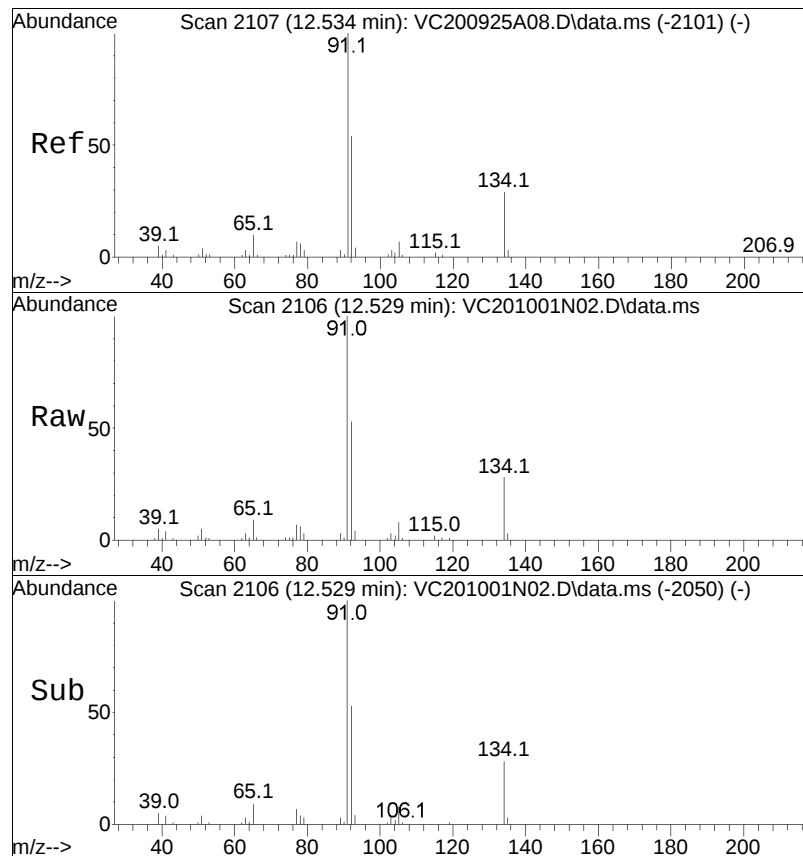




#102
 p-Diethylbenzene
 Concen: 39.23 ug/L
 RT: 12.471 min Scan# 2095
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

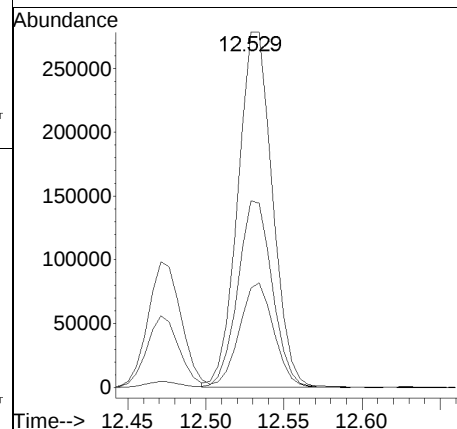
Tgt Ion:	119	Resp:	299669
Ion Ratio	Lower	Upper	
119	100		
105	79.2	53.3	110.7
134	48.8	30.4	63.0

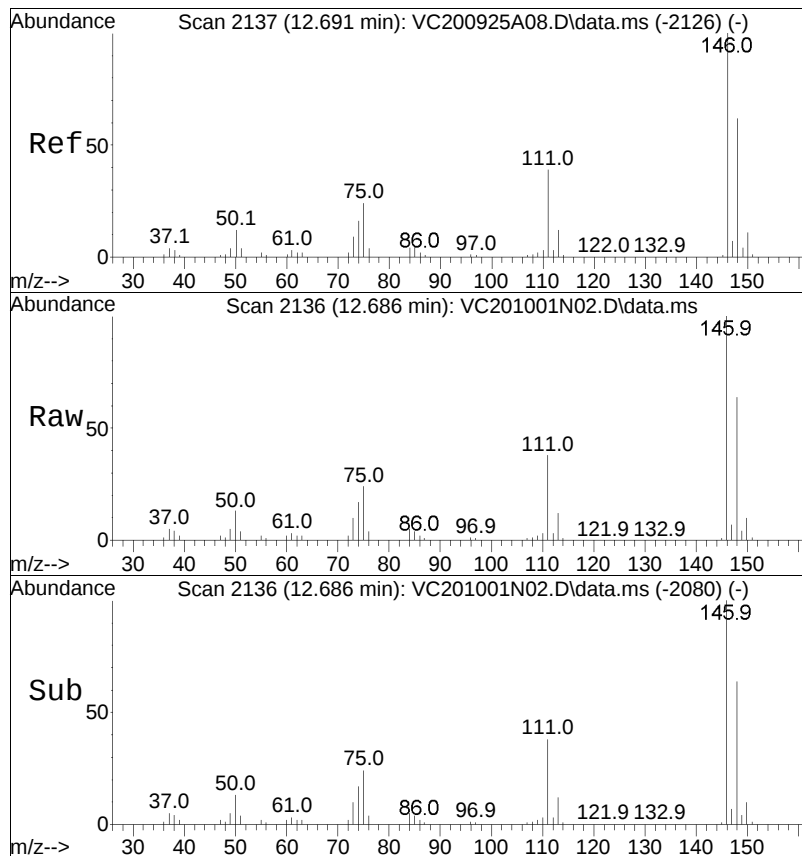




#103
 n-Butylbenzene
 Concen: 39.81 ug/L
 RT: 12.529 min Scan# 2106
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

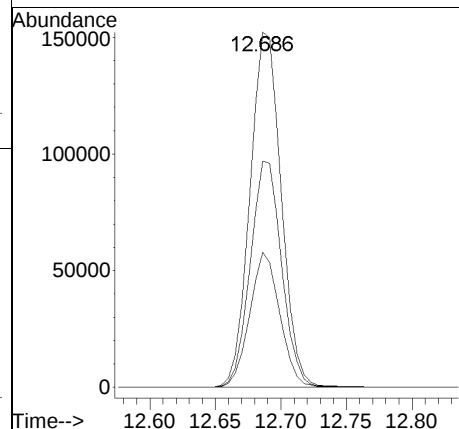
Tgt	Ion: 91	Resp: 429855
Ion	Ratio	Lower Upper
91	100	
92	52.4	43.5 65.3
134	29.2	22.6 34.0

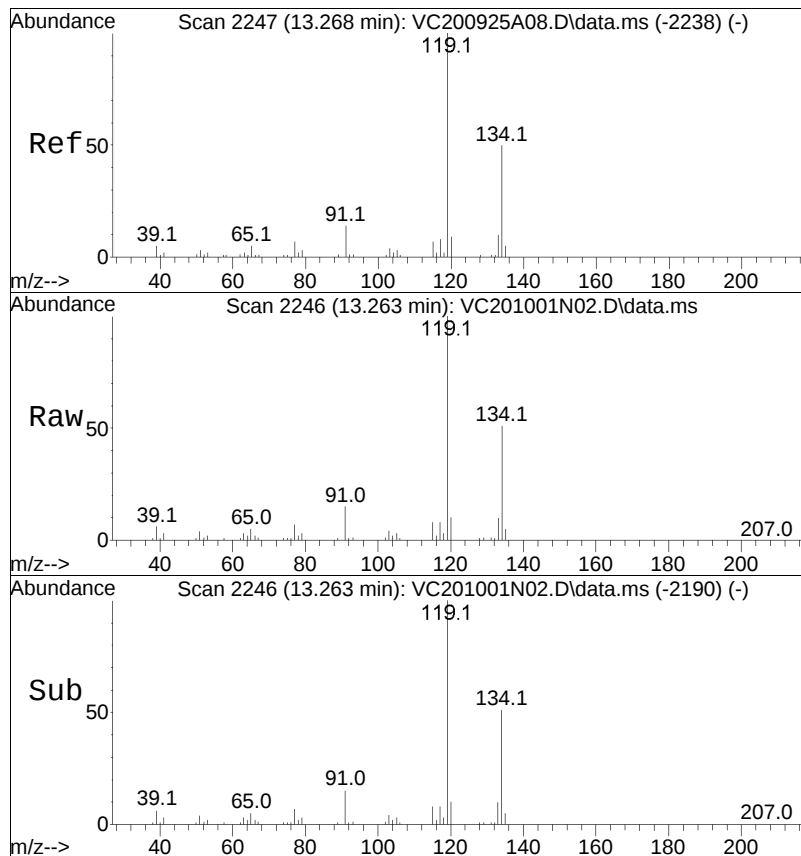




#104
 1,2-Dichlorobenzene
 Concen: 37.18 ug/L
 RT: 12.686 min Scan# 2136
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

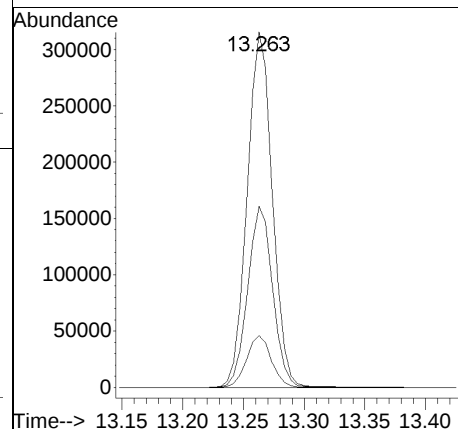
Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.7	25.4	52.8
148	64.0	41.8	86.8

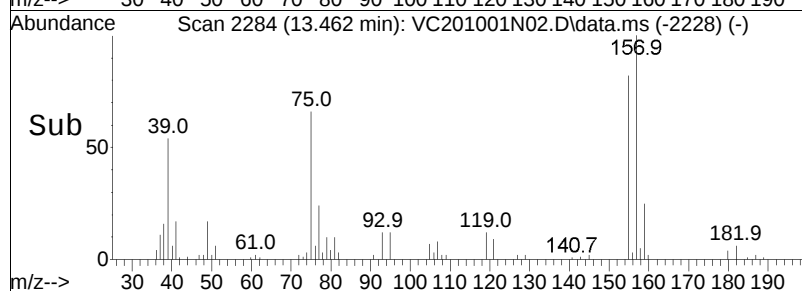
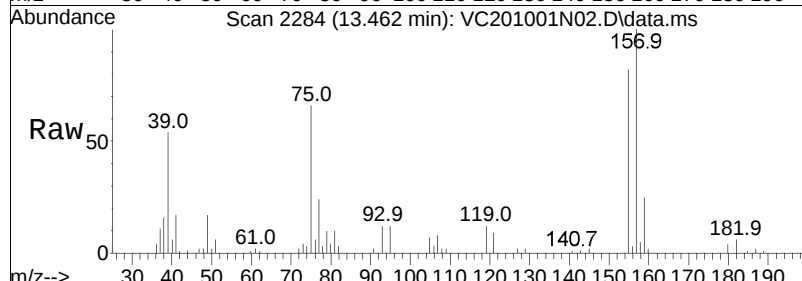
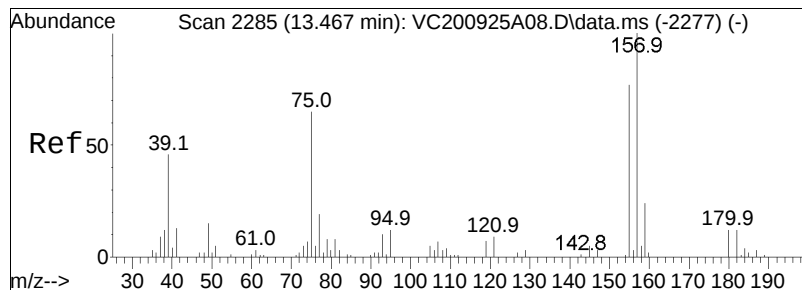




#105
 1,2,4,5-Tetramethylbenzene
 Concen: 38.11 ug/L
 RT: 13.263 min Scan# 2246
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

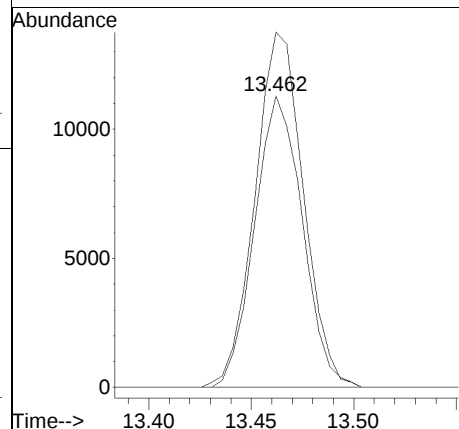
Tgt Ion	Ratio	Lower	Upper
119	100		
134	50.5	31.1	64.5
91	14.3	9.8	20.4

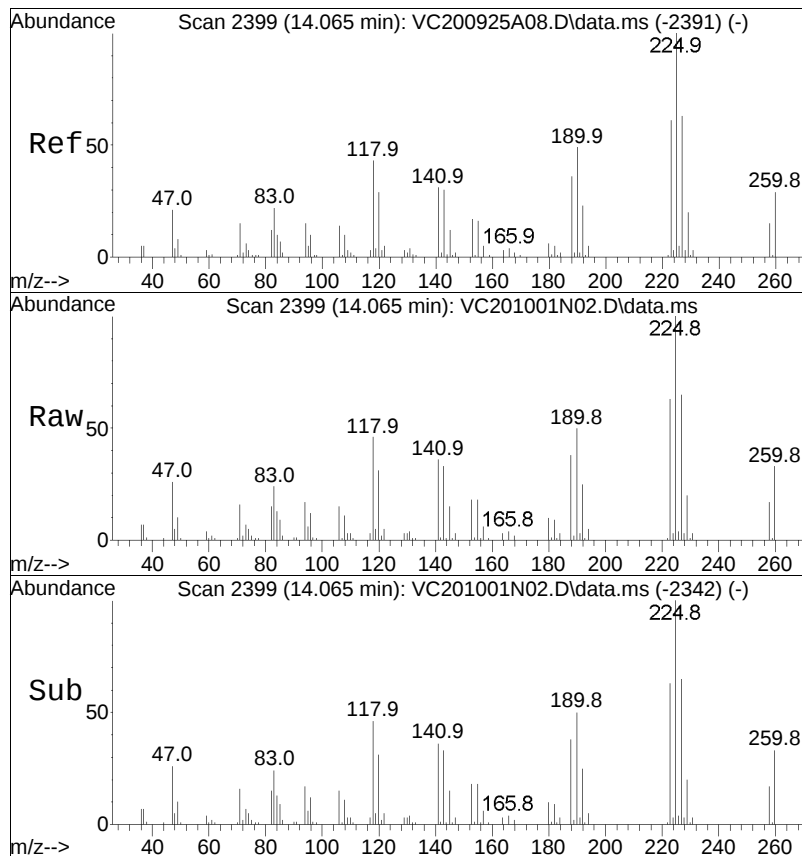




#106
 1,2-Dibromo-3-chloropropane
 Concen: 32.82 ug/L
 RT: 13.462 min Scan# 2284
 Delta R.T. -0.005 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

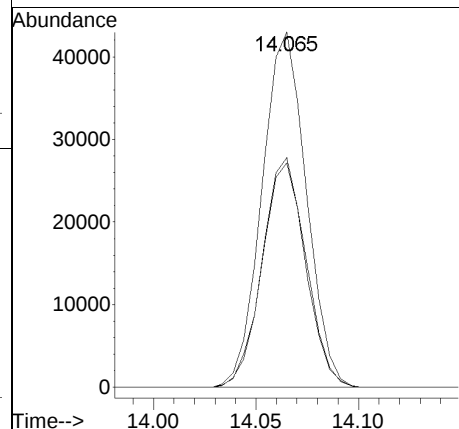
Tgt	Ion	Ratio	Lower	Upper
155	100			
157	123.6	103.0	154.6	

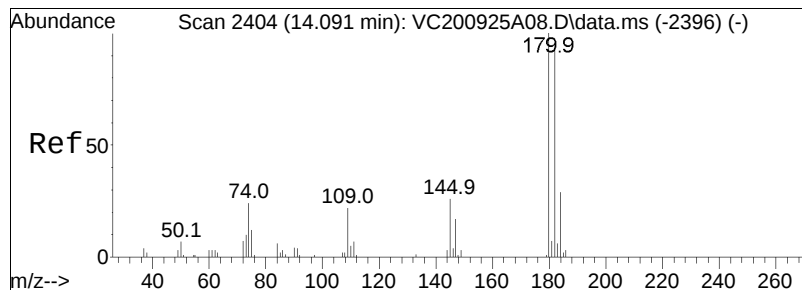




#108
 Hexachlorobutadiene
 Concen: 34.96 ug/L
 RT: 14.065 min Scan# 2399
 Delta R.T. -0.000 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.4	50.0	75.0
227	63.7	52.0	78.0





#109

1,2,4-Trichlorobenzene

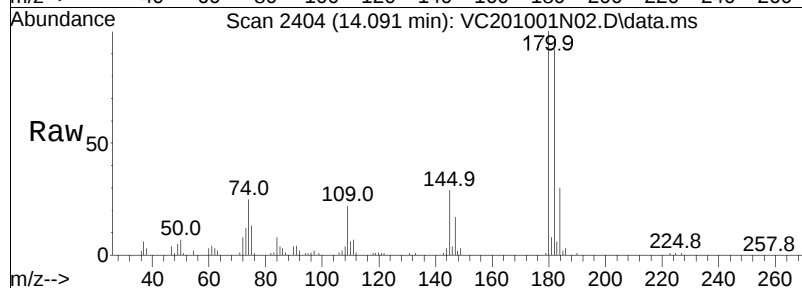
Concen: 40.76 ug/L

RT: 14.091 min Scan# 2404

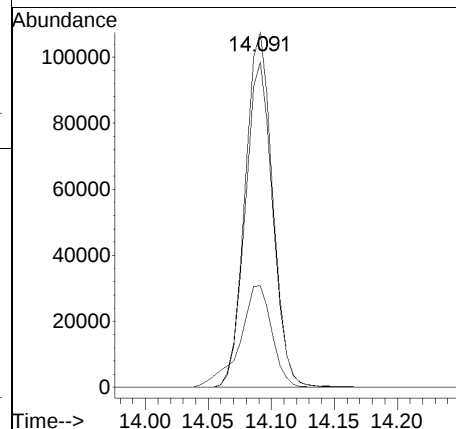
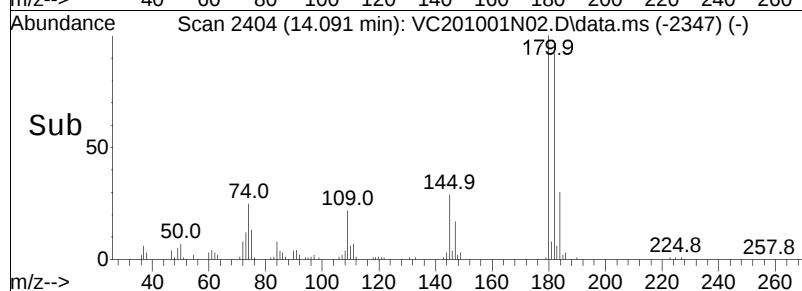
Delta R.T. 0.000 min

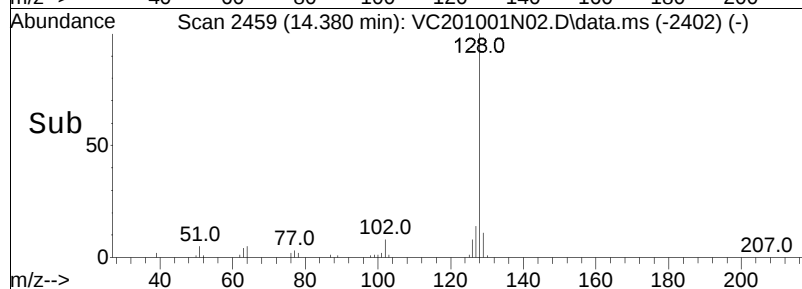
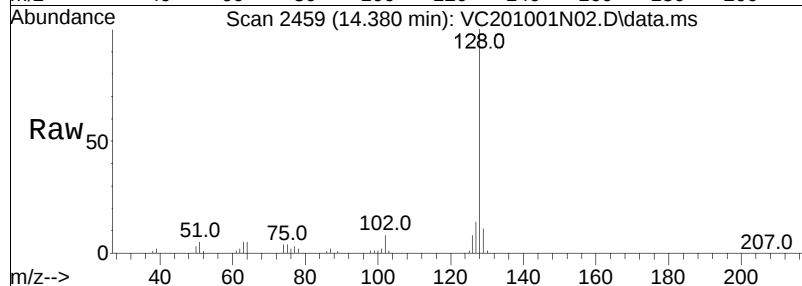
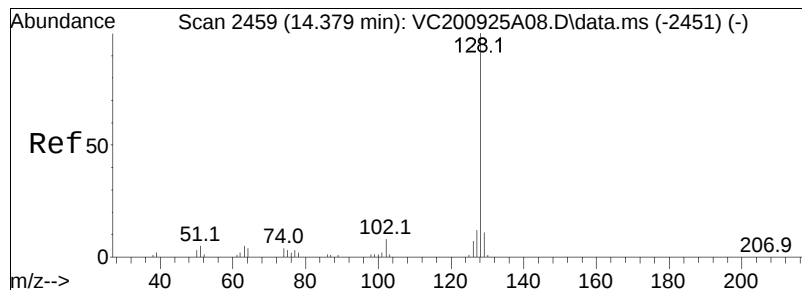
Lab File: VC201001N02.D

Acq: 1 Oct 2020 6:05 pm

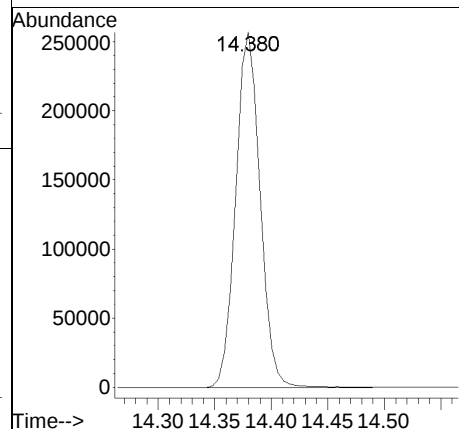


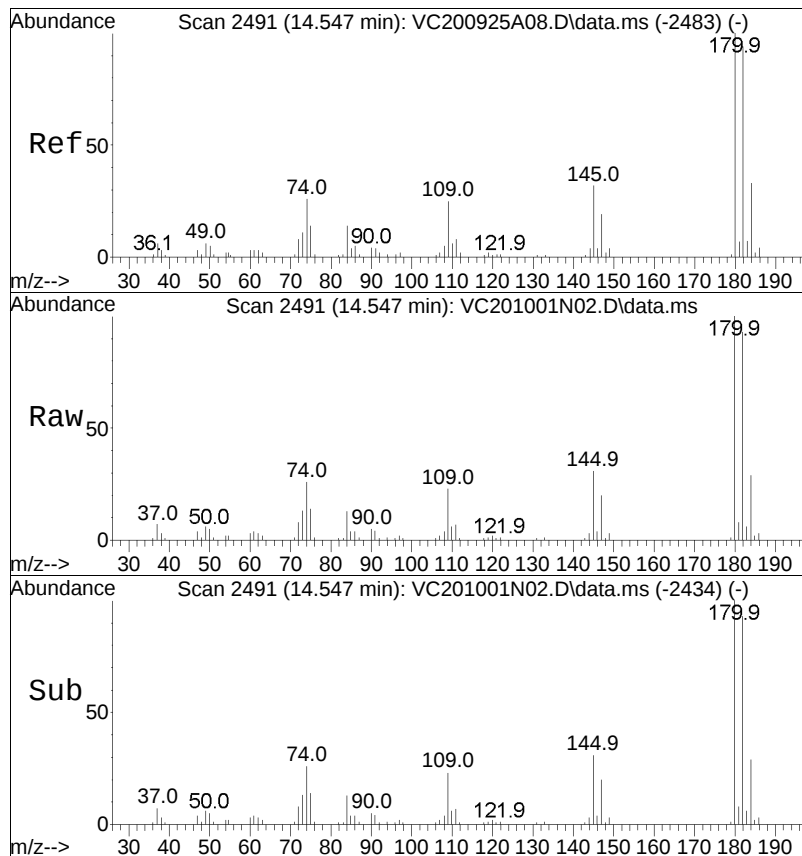
Tgt Ion:	180	Resp:	163761
Ion Ratio	Lower	Upper	
180	100		
182	91.7	77.4	116.2
145	33.4	26.8	40.2





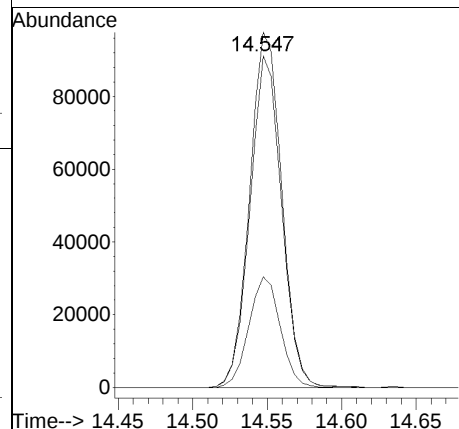
#110
 Naphthalene
 Concen: 38.82 ug/L
 RT: 14.380 min Scan# 2459
 Delta R.T. 0.001 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm
 Tgt Ion:128 Resp: 384315





#111
 1,2,3-Trichlorobenzene
 Concen: 37.91 ug/L
 RT: 14.547 min Scan# 2491
 Delta R.T. 0.000 min
 Lab File: VC201001N02.D
 Acq: 1 Oct 2020 6:05 pm

Tgt	Ion	Ratio	Lower	Upper
180	100			
182	92.0	75.9	113.9	
145	30.5	24.4	36.6	



Manual Integration Report

Data Path	: I:\VOLATILES\Charlie\2020\Q	Method	: C_200925A_8260.m
Data File	: VC201001N02.D	Operator	: CHARLIE:AD
Date Inj'd	: 10/1/2020 6:05 pm	Instrument	: Charlie
Sample	: WG1417205-4,31,5,5	Quant Date	: 10/1/2020 6:28 pm

There are no manual integrations or false positives in this file.



Calculation of Volatile Organic Compounds

Aqueous Concentration Formula: $Amt * DF * Uf * (1/Vo)$

Where:

DF = Dilution Factor

Vo = Sample Volume Purged (mL)

Uf = ng Unit Correction Factor (mL)

Soil Concentration Formula: $Amt * DF * (1/Wt)$

Where:

DF = Dilution Factor

Wt = Weight of Sample (g)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Oct 02 2020, 02:46 pm

Work Group: WG1417205 for Department: 31 GC/MS - Volatiles

Created: 02-OCT-20 Due: Operator: mv

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2040828-01	VTX-110	S NYTCL-8260HLW	SOIL	DONE	U	1011	1005	S0	8260SET
L2040828-02	VTX-111	S NYTCL-8260HLW	SOIL	DONE	U	1011	1005	S0	8260SET
L2040828-03	VTX-112	S NYTCL-8260HLW	SOIL	DONE	U	1011	1005	S0	8260SET
L2040828-04	RF-9-PX	S NYTCL-8260HLW	SOIL	DONE	U	1011	1005	S0	8260SET
WG1417205-1	MS BFB Tune Standard	S NYTCL-8260HLW	SOIL	DONE	U				
WG1417205-2	Continuing Calibrati	S NYTCL-8260HLW	SOIL	DONE	U				
WG1417205-3	Laboratory Control S	S NYTCL-8260HLW	SOIL	DONE	U				
WG1417205-4	LCS Duplicate	S NYTCL-8260HLW	SOIL	DONE	U				
WG1417205-5	Laboratory Method Bl	S NYTCL-8260HLW	SOIL	DONE	U				
Comments:									
WG1417205-4	WG1417205-3								

200925A

2020

CHARLIE

RUSH	HT	PRI
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Method

GC: 8260

Autosampler: 8260soil

Concentrator: 8260



QC: _____ Seq: _____

Inst: CHARLIE BFB v7999
 Initials: TAB IS/SS: V8019
 Date: **09/25/20** 8260 CCAL V8014D,V8016
 Run: **A** ICV V7974,V7975,V7988,V7979,V8015,V8024

VIAL	DATA FILE	SAMPLE
1	VC200925BFB	BFBTUNE
1	VC200925A01	BLANK
2	VC200925A02	BLANK
3	VC200925A03	I8260STDL0.5PPB
4	VC200925A04	I8260STDL1PPB
5	VC200925A05	I8260STDL2PPB
6	VC200925A06	I8260STDL4PPB
7	VC200925A07	I8260STDL20PPB
8	VC200925A08	I8260STDL40PPB
9	VC200925A09	I8260STDL100PPB
10	VC200925A10	I8260STDL200PPB
11	VC200925A11	I8260STDL300PPB
12	VC200925A12	BLANK
13	VC200925A13	BLANK
14	VC200925A14	BLANK
15	VC200925A15	C8260STDL40PPB
16	VC200925A16	C8260STDL40PPB

201001N

2020

CHARLIE

RUSH	HT	PRI
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Method

GC: 8260

Autosampler: 8260soil

Concentrator: 8260



QC: _____ Seq: _____

Inst: CHARLIE
 Initials: AD
 Date: **10/01/20**
 Run: N

BFB v7999
 IS/SS: V8019
 8260 CCAL V8014D,V8016

VIAL	DATA FILE	SAMPLE
1	VC201001BF2	BFBTUNE
1	VC201001N01	8260 CCAL D
2	VC201001N02	8260 CCAL D
3	VC201001N03	BLK
4	VC201001N04	METHOD BLK
5	VC201001N05	I2040735-06,31,7.17,5,,c 8LW/NH
6	VC201001N06	I2040735-07,31,7.05,5,,c 8LW/NH
7	VC201001N07	I2040735-08,31,6.10,5,,c 8LW/NH
8	VC201001N08	I2040735-09,31,7.76,5,,c 8LW/NH
9	VC201001N09	I2040735-11,31,7.28,5,,c 8LW/NH
10	VC201001N10	I2040735-12,31,2.44,5,,c 8LW/NH
11	VC201001N11	I2040735-13,31,7.53,5,,c 8LW/NH
12	VC201001N12	I2040735-14,31,7.14,5,,c 8LW/NH
13	VC201001N13	I2040735-01,31,7.37,5,,b 8LW/NH
14	VC201001N14	I2040735-02,31,7.42,5,,b 8LW/NH
15	VC201001N15	I2040735-03,31,6.79,5,,b 8LW/NH
16	VC201001N16	I2040735-04,31,6.77,5,,b 8LW/NH
17	VC201001N17	I2040735-05,31,5.74,5,,c 8LW/NH
18	VC201001N18	I2040828-01,31,4.97,5,,y NYHLW
19	VC201001N19	I2040828-02,31,4.60,5,,y NYHLW
20	VC201001N20	I2040828-03,31,5.20,5,,y NYHLW
21	VC201001N21	I2040828-04,31,4.76,5,,y NYHLW
22	VC201001N22	I2040473-02,31,7.72,5,,b NYHLW/CURVE
23	VC201001N23	I2039637-01,31,6.54,5,,b NYHLW/CURVE
24	VC201001N24	I2039637-10,31,7.37,5,,b NYHLW/CURVE
25	VC201001N25	STD

Wet Chemistry

Total Solids / Percent Moisture Analysis

Results

Form 1

WETCHEM

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2040828-01
 Client ID : VTX-110
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 121,2540G
 Lab File ID : WG1415750.pdf
 Sample Amount :
 Digestion Method :

Lab Number : L2040828
 Project Number : 48122
 Date Collected : 09/27/20 11:00
 Date Received : 09/28/20
 Date Analyzed : 09/29/20 10:16
 Dilution Factor : 1
 Analyst : RI
 Instrument ID : BALANCE#47
 %Solids : 95
 Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	94.9	0.100	NA	



Form 1

WETCHEM

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2040828-02
 Client ID : VTX-111
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 121,2540G
 Lab File ID : WG1415750.pdf
 Sample Amount :
 Digestion Method :

Lab Number : L2040828
 Project Number : 48122
 Date Collected : 09/27/20 11:45
 Date Received : 09/28/20
 Date Analyzed : 09/29/20 10:16
 Dilution Factor : 1
 Analyst : RI
 Instrument ID : BALANCE#47
 %Solids : 92
 Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	91.7	0.100	NA	



Form 1

WETCHEM

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2040828-03
 Client ID : VTX-112
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 121,2540G
 Lab File ID : WG1415750.pdf
 Sample Amount :
 Digestion Method :

Lab Number : L2040828
 Project Number : 48122
 Date Collected : 09/27/20 13:05
 Date Received : 09/28/20
 Date Analyzed : 09/29/20 10:16
 Dilution Factor : 1
 Analyst : RI
 Instrument ID : BALANCE#47
 %Solids : 92
 Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	92.2	0.100	NA	



Form 1

WETCHEM

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2040828-04
 Client ID : RF-9-PX
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 121,2540G
 Lab File ID : WG1415750.pdf
 Sample Amount :
 Digestion Method :

Lab Number : L2040828
 Project Number : 48122
 Date Collected : 09/27/20 14:10
 Date Received : 09/28/20
 Date Analyzed : 09/29/20 10:16
 Dilution Factor : 1
 Analyst : RI
 Instrument ID : BALANCE#47
 %Solids : 96
 Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	95.9	0.100	NA	

Form 1

WETCHEM

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : WG1415750-1
 Client ID : VTX-110DUP
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 121,2540G
 Lab File ID : WG1415750.pdf
 Sample Amount :
 Digestion Method :

Lab Number : L2040828
 Project Number : 48122
 Date Collected : 09/27/20 11:00
 Date Received : 09/28/20
 Date Analyzed : 09/29/20 10:16
 Dilution Factor : 1
 Analyst : RI
 Instrument ID : BALANCE#47
 %Solids : 95
 Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	95.3	0.100	NA	



Sample Raw Data

WorkGroup	WG1415750	Temp In (C)	105	Temp In (C)		Temp In (C)		Temp In (C)	
Title	Solids, Total	Temp Out (C)	105	Temp Out (C)		Temp Out (C)		Temp Out (C)	
Method	SM2540G	Time In	29-SEP-20 10:30	Time In		Time In		Time In	
Instrument	BALANCE#47	Time Out	29-SEP-20 16:15	Time Out		Time Out		Time Out	

Sample #	Analysis Date	Analyst	Tare Weight (gm)	Gross Weight (gm)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Result %	Comment
L2039637-01	29-SEP-20 10:16	ROMANY IBRAHIM	1.11	8.61	7.22				81.47	
L2039637-03	29-SEP-20 10:16	ROMANY IBRAHIM	1.11	8.89	7.74				85.22	
L2039637-08	29-SEP-20 10:16	ROMANY IBRAHIM	1.11	8.96	8.26				91.08	
L2039637-10	29-SEP-20 10:16	ROMANY IBRAHIM	1.13	8.79	8.04				90.21	
L2040801-01	29-SEP-20 10:16	ROMANY IBRAHIM	1.13	5.79	5.74				98.93	
L2040801-02	29-SEP-20 10:16	ROMANY IBRAHIM	1.13	5.77	5.71				98.71	
L2040801-03	29-SEP-20 10:16	ROMANY IBRAHIM	1.13	7.02	6.08				84.04	
L2040828-01	29-SEP-20 10:16	ROMANY IBRAHIM	1.13	8.36	7.99				94.88	
L2040828-02	29-SEP-20 10:16	ROMANY IBRAHIM	1.13	8.35	7.75				91.69	
L2040828-03	29-SEP-20 10:16	ROMANY IBRAHIM	1.13	8.29	7.73				92.18	
L2040828-04	29-SEP-20 10:16	ROMANY IBRAHIM	1.14	8.67	8.36				95.88	
L2040835-01	29-SEP-20 10:16	ROMANY IBRAHIM	1.13	8.7	7.82				88.38	
L2040881-01	29-SEP-20 10:16	ROMANY IBRAHIM	1.13	7.74	6.22				77.00	
L2040916-17	29-SEP-20 10:16	ROMANY IBRAHIM	1.11	8.72	8.39				95.66	
L2040928-01	29-SEP-20 10:16	ROMANY IBRAHIM	1.11	8.79	8.04				90.23	
L2040928-02	29-SEP-20 10:16	ROMANY IBRAHIM	1.15	8.38	7.85				92.67	
L2040928-03	29-SEP-20 10:16	ROMANY IBRAHIM	1.14	9.53	8.67				89.75	
L2040928-04	29-SEP-20 10:16	ROMANY IBRAHIM	1.13	8.32	7.58				89.71	
L2040948-01	29-SEP-20 10:16	ROMANY IBRAHIM	1.15	8.6	7.83				89.66	
L2040948-02	29-SEP-20 10:16	ROMANY IBRAHIM	1.14	9.01	7.58				81.83	
WG1415750-1	29-SEP-20 10:16	ROMANY IBRAHIM	1.12	8.29	7.95				95.26	

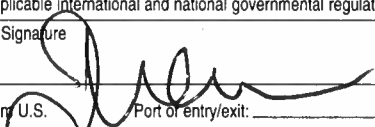
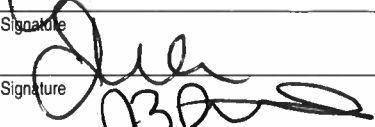
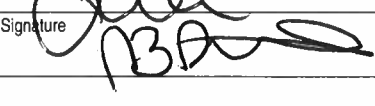
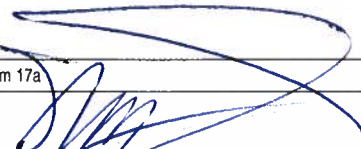
Quality Control

Form 6 Lab Duplicates

Client	: The Vertex Companies, Inc.	Lab Number	: L2040828
Project Name	: ROCKFARMER	Project Number	: 48122
Client Sample ID	: VTX-110	Matrix	: SOLID
Lab Sample ID	: L2040828-01	Analysis Date	: 09/29/20 10:16
Dup Sample ID	: WG1415750-1	DUP Analysis Date	: 09/29/20 10:16

Parameter	Sample Concentration (%)	Duplicate Concentration (%)	RPD	RPD Limit
Solids, Total	94.9	95.3	0	20

4129445 10/01

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number N/A		2. Page 1 of 1	3. Emergency Response Phone		4. Waste Tracking Number 42667	
5. Generator's Name and Mailing Address 37th Avenue Owner LLC 42-01 235th Street Douglaston NY 11353 Generator's Phone: 718 224-4298				Generator's Site Address (if different than mailing address) 37th Avenue Owner LLC 82-13 37th Avenue Jackson Heights NY 11372				
6. Transporter 1 Company Name Innovative Recycling Technologies, Inc.				U.S. EPA ID Number NYR000134940				
7. Transporter 2 Company Name Republic Environmental Sys d				U.S. EPA ID Number PA0005690592				
8. Designated Facility Name and Site Address Republic Environmental Systems (PA) LLC 2869 Sandstone Drive Hatfield PA 19440 Facility's Phone: 215 822-0906				U.S. EPA ID Number PA0005690592				
9. Waste Shipping Name and Description Non-Hazardous Drill Cuttings Non-RCRA Regulated Material				10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
				No.	Type			
				01	Drum	420	P	
2.								
3.								
4.								
13. Special Handling Instructions and Additional Information 545695-20								
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.								
Generator's/Offoror's Printed/Typed Name James Whit				Signature 			Month Day Year 09 30 20	
15. International Shipments ☐ Import to U.S.				☐ Export from U.S.		Port of entry/exit: Date leaving U.S.:		
16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name James Whit				Signature 			Month Day Year 09 30 20	
Transporter 2 Printed/Typed Name Malvee B. D. L.				Signature 			Month Day Year 10 5 20	
17. Discrepancy								
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection								
Manifest Reference Number:								
17b. Alternate Facility (or Generator)				U.S. EPA ID Number				
Facility's Phone:								
17c. Signature of Alternate Facility (or Generator)				Month Day Year				
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a Printed/Typed Name MALVEE B. D. L.								
Signature 				Month Day Year 10 09 20				



CERTIFICATE OF TREATMENT, RECYCLING, AND/OR DISPOSAL

Generator: 642278 - 37TH AVENUE OWNER LLC 82-13 37TH AVENUE JACKSON HEIGHTS NY, 11372 EPA ID: CESQG	Facility: REPUBLIC ENV SYS (PA) LLC 2869 SANDSTONE DRIVE HATFIELD PA, 19440 EPA ID: PAD085690592	Manifest #: 42667 Waste Receipt #: HAT-0470W Date Received: 10/09/2020
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Line Profile	Material Description	Treatment/ Disposal Description
1 1650062-00	NON HAZARDOUS NON-DOT REGULATED MATERIAL	H141 STORAGE, BULKING, AND/OR TRANSFER OFF-SITE - NO TREATMENT/RECOVERY/BLENDING

Name: MARCIA THOMAS	Signature :	Title : Logistic Coordinator
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